



Recommended by Engineer - CEC, Inc.

Accepted by Contractor - Reeves – Young, LLC

By: \_\_\_\_\_

\_\_\_\_\_

Title: \_\_\_\_\_

\_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_

Authorized by Owner- Ashland City, TN

Approved by Funding Agency (if applicable)

By: \_\_\_\_\_

\_\_\_\_\_

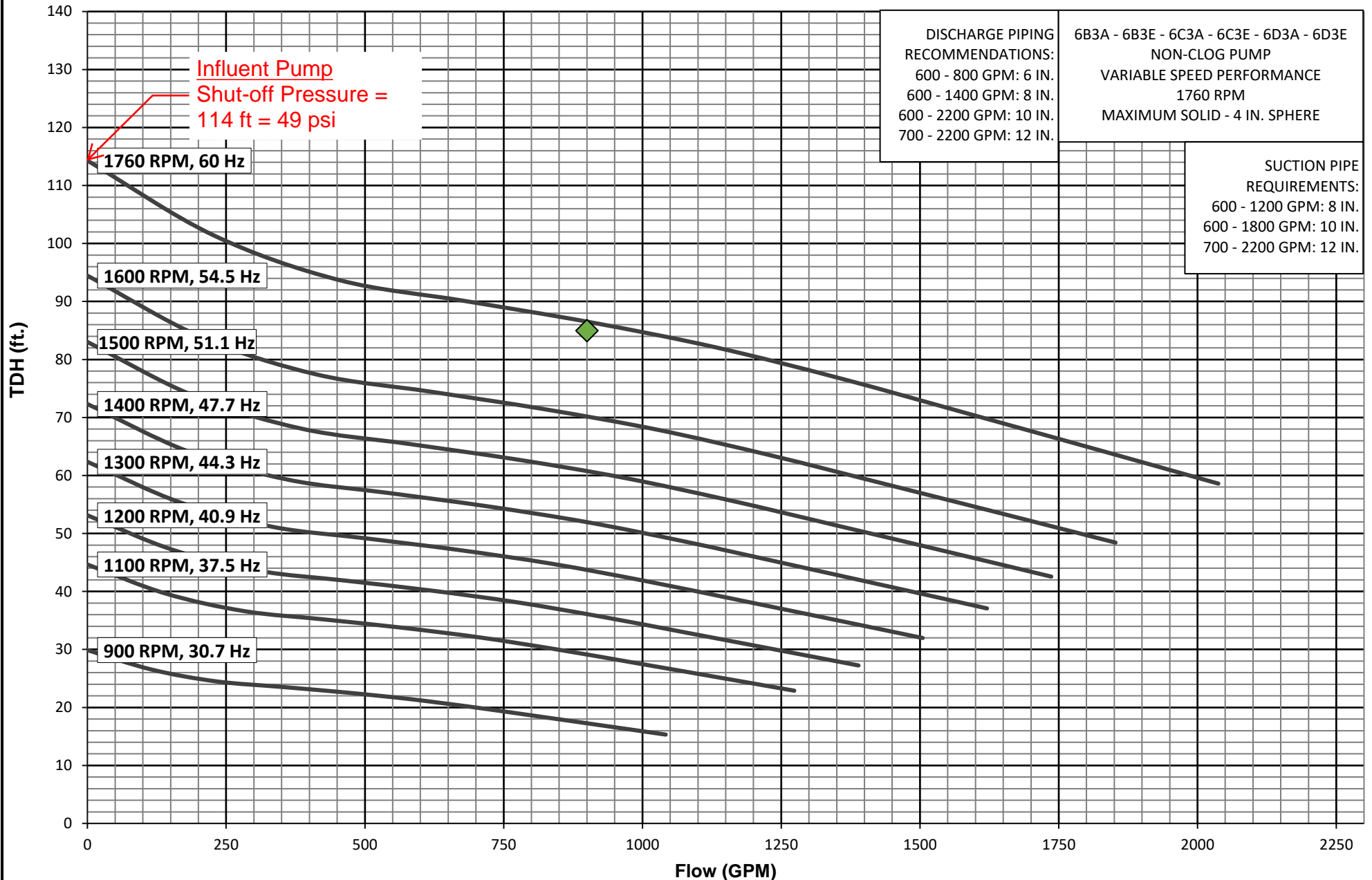
Title: \_\_\_\_\_

\_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_

# Pump Curve



Location:	Ashland City, TN	Design Point:	900 GPM @ 85 ft.	Pump Model:	6D3A / 6D3E, 1760 RPM
Project Name:	Influent Pumping Station	Impeller Trim:	10 - 3/8 Inches	HP & Efficiency:	40 HP & 67.6%

## Oakley, Ricky

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**From:** Oakley, Ricky  
**Sent:** Thursday, January 12, 2023 9:26 AM  
**To:** Ty Kelley  
**Cc:** Matthew McCormack; Clint Biggers  
**Subject:** RE: HDPE Pipe Proposal

Ty,  
This is great.

Just to confirm, we can expect:

Change Order 1

Item 1 – Deletion of H2S Coating System, replaced with HS Epoxy System on smooth face masonry block - \$440,000 savings

Item 2 – Deletion of 16 and 24 inch C905 PVC forcemain and outfall with 16 and 24 inch HDPE DR 17 DIPS - \$300,000 savings.

Thanks, Ricky

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**From:** Ty Kelley <TKelley@reevesyoung.com>  
**Sent:** Thursday, January 12, 2023 9:19 AM  
**To:** Oakley, Ricky <roakley@cecinc.com>  
**Cc:** Matthew McCormack <MMcCormack@reevesyoung.com>; Clint Biggers <CBiggers@ashlandcitytn.gov>  
**Subject:** RE: HDPE Pipe Proposal

Ricky,

Confirmed that the proposed HDPE pipe will be 16" HDPE DR17 DIPS and 24" HDPE DR17 DIPS.

Thank you,

**Ty Kelley**  
Director of Preconstruction

[tkelley@reevesyoung.com](mailto:tkelley@reevesyoung.com) | [reevesyoung.com](http://reevesyoung.com)  
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**From:** Oakley, Ricky <[roakley@cecinc.com](mailto:roakley@cecinc.com)>  
**Sent:** Tuesday, January 10, 2023 3:25 PM  
**To:** Clint Biggers <[CBiggers@ashlandcitytn.gov](mailto:CBiggers@ashlandcitytn.gov)>  
**Cc:** Ty Kelley <[TKelley@reevesyoung.com](mailto:TKelley@reevesyoung.com)>; Matthew McCormack <[MMcCormack@reevesyoung.com](mailto:MMcCormack@reevesyoung.com)>  
**Subject:** FW: HDPE Pipe Proposal

Clint,  
 If Reeves Young is able to confirm the HDPE pipe will be 16" HDPE DR17 DIPS and 24" HDPE DR17 DIPS as is shown below, I am able to support and recommend this cost savings measure for the force main and the outfall.

Ricky

**From:** Oakley, Ricky  
**Sent:** Tuesday, January 10, 2023 12:20 PM  
**To:** Ty Kelley <[TKelley@reevesyoung.com](mailto:TKelley@reevesyoung.com)>; Matthew McCormack <[MMcCormack@reevesyoung.com](mailto:MMcCormack@reevesyoung.com)>  
**Subject:** HDPE Pipe Proposal

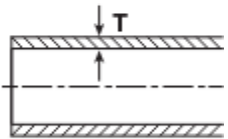
Is this what your supplier is proposing? 16" ID = 15.229 and 24" ID = 22.582?

Thanks,  
 Ricky

**HDPE DUCTILE IRON OUTSIDE DIAMETER PRESSURE PIPE**

PIPE SIZE (IN)	AVG O.D. (IN)	MIN. T. (IN)	AVG I.D. (IN)	WGT (LBS/FT)	MIN. T. (IN)	AVG I.D. (IN)	WGT (LBS/FT)	MIN. T. (IN)	AVG I.D. (IN)	WGT (LBS/FT)
DR 7 (335 psi)										
4	4.800	0.686	3.346	3.87	0.533	3.670	3.13	0.436	3.876	2.62
6	6.900	0.986	4.868	7.99	0.767	5.274	6.46	0.627	5.571	5.41
8	9.050	1.293	6.309	13.75	1.006	6.917	11.12	0.823	7.305	9.32
10	11.100	1.586	7.738	20.68	1.233	8.486	16.72	1.009	8.961	14.01
12	13.200	1.886	9.202	29.25	1.467	10.090	23.65	1.200	10.656	19.82
14	15.300	2.186	10.666	39.29	1.700	11.696	31.77	1.391	12.351	26.63
16	17.400	2.486	12.130	50.82	1.933	13.302	41.08	1.582	14.046	34.44
18	19.500	2.786	13.594	63.82	2.167	14.906	51.61	1.773	15.741	43.25
20	21.600	3.086	15.058	78.31	2.400	16.512	63.32	1.964	17.436	53.07
24	25.800	N/A	N/A	N/A	2.867	19.722	90.35	2.345	20.829	75.69
30	32.000	N/A	N/A	N/A	N/A	N/A	N/A	2.909	25.833	116.46
36	38.300	N/A	N/A	N/A	N/A	N/A	N/A	3.482	30.918	166.84
DR 13.5 (160 psi)										
4	4.800	0.356	4.045	2.18	0.282	4.202	1.76	0.253	4.264	1.59
6	6.900	0.511	5.817	4.50	0.406	6.039	3.64	0.363	6.130	3.27
8	9.050	0.670	7.630	7.74	0.532	7.922	6.25	0.476	8.041	5.63
10	11.100	0.822	9.375	11.64	0.653	9.761	9.41	0.584	9.862	8.47
12	13.200	0.978	11.127	16.47	0.776	11.555	13.30	0.695	11.727	11.99
14	15.300	1.133	12.898	22.12	0.900	13.392	17.88	0.805	13.593	16.10
16	17.400	1.289	14.667	28.61	1.024	15.229	23.13	0.916	15.458	20.84
18	19.500	1.444	16.439	35.92	1.147	17.068	29.04	1.026	17.325	26.15
20	21.600	1.600	18.208	44.09	1.271	18.905	35.64	1.137	19.190	32.10
24	25.800	1.911	21.749	62.90	1.518	22.582	50.84	1.358	22.921	45.80
30	32.000	2.370	26.976	96.76	1.882	28.123	78.18	1.684	28.430	70.45
36	38.300	2.837	32.286	138.62	2.253	33.524	112.02	2.016	34.026	100.94
42	44.500	N/A	N/A	N/A	2.618	38.950	151.24	2.342	39.535	136.24
48	50.800	N/A	N/A	N/A	2.988	44.465	197.05	2.674	45.131	177.57

**Product Standard:** ANS ASTM F714, ASTM D30  
**Pipe Compound:** PPI T ASTM D3350 Cell Class  
**Certification:** ANSI/NSF  
**Additional Option:** Perf  
**Nominal Laying Length** (Laying length tolerance AWWA and ASTM stand  
 Coil option available up  
**Installation:** JM Eagle™ Installation Guide  
 Manning Coefficient (n) = Hazen-Williams Coefficient  
 \*Supply may vary based or Please call regarding avail



**T:** (Wall Thickness)  
**I.D.:** (Inside Diameter)  
**O.D.:** (Outside Diameter)



## Oakley, Ricky

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**From:** Ty Kelley <TKelley@reevesyoung.com>  
**Sent:** Thursday, January 5, 2023 1:02 PM  
**To:** Oakley, Ricky  
**Cc:** Matthew McCormack; Clayton, Keri; Huling, Kaleb  
**Subject:** RE: Ashland City WWTP - VE Proposal

Ricky,

Working on the cost deduct but see below from the painting subcontractor:

*"I did have this discussion with Mark Goulet, Tnemec Rep, this morning. I do believe Series 104 HS is what this area needs in the place of the Perma-Shield H2S system. Smooth face block would be much more manageable and would be less expensive for labor and material."*

Once I get these credits I will send them over. Thank you,

**Ty Kelley**  
Director of Preconstruction

[tkelley@reevesyoung.com](mailto:tkelley@reevesyoung.com) | [reevesyoung.com](http://reevesyoung.com)  
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**From:** Oakley, Ricky <roakley@cecinc.com>  
**Sent:** Thursday, January 5, 2023 12:19 PM  
**To:** Ty Kelley <TKelley@reevesyoung.com>  
**Cc:** Matthew McCormack <MMcCormack@reevesyoung.com>; Clayton, Keri <kclayton@cecinc.com>; Huling, Kaleb <khuling@cecinc.com>  
**Subject:** RE: Ashland City WWTP - VE Proposal

Ty,

 Revised Specification

I would like you to check with your painting sub to see if a Series 104 HS Epoxy System would be adequate in the screening room. Also, I would like you to show the savings changing the screening room interior walls to smooth masonry block not split face. Series 104 HS Epoxy on Smooth Masonry may be significantly less expensive.

Thanks,  
Ricky

**From:** Ty Kelley <[TKelley@reevesyoung.com](mailto:TKelley@reevesyoung.com)>  
**Sent:** Wednesday, January 4, 2023 3:31 PM  
**To:** Oakley, Ricky <[roakley@cecinc.com](mailto:roakley@cecinc.com)>  
**Cc:** Matthew McCormack <[MMcCormack@reevesyoung.com](mailto:MMcCormack@reevesyoung.com)>  
**Subject:** RE: Ashland City WWTP - VE Proposal

Ricky, **Original Specification changed to 2 coats Series 104 HS Epoxy**

To confirm, at the screening room the intent is to have the concrete and masonry walls coated with item #3 below from the painting spec:

- D. Concrete, Dense Masonry
1. Exterior, Non-Immersion  
Surface Preparation: Surface shall be clean and dry.  
1st Coat: 156 Enviro-Crete -Color at 4.0-8.0 mils DFT.  
2<sup>nd</sup> Coat: 156 Enviro-Crete -Color at 4.0-8.0 mils DFT.
    - A void and pinhole free finish shall be achieved. Smooth surfaces require Series 151 ElastoGrip FC at .07-1.5 mils DFT as primer.
  2. Immersion or Interior Non-Immersion  
Surface Preparation: SSPC SP-13 / ICRI CSP 5  
Surfacer /Parge: 218 Mortar-Clad to fill bugholes and parge surface at 1/16" to 1/8"  
1st Coat: 104-Color H.S. Epoxy at 6.0 - 10.0 mils DFT.  
2nd Coat: 104-Color H.S. Epoxy at 6.0 - 10.0 mils DFT.  
\* Contact manufacturer for use in potable water. Reference Section 1.5 A
  3. Interior, exposed to high levels of Hydrogen Sulfide and Sulfuric Acid Condensate.  
Surface Preparation: SSPC SP-13 / ICRI CSP-5  
Surfacer: 218 Mortar-Clad to fill bugholes and parge surface at 1/16" to 1/8"  
1st Coat :434 Perma-Shield H2S at 125 mils DFT .  
2nd Coat: G435 Perma-Glaze at 15.0-20.0 mils DFT.  
OR  
Surface Preparation: SSPC SP-13 / ICRI CSP-5  
Surfacer: 218 Mortar-Clad to fill bugholes and parge surface at 1/16" to 1/8"  
1st Coat :G436 Perma-Shield FR at 125 mils DFT .
  4. Fluoride Room, Floor & Walls

Thank you,

**Ty Kelley**  
Director of Preconstruction

[tkelley@reevesyoung.com](mailto:tkelley@reevesyoung.com) | [reevesyoung.com](http://reevesyoung.com)  
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