



Submittal - 024 Pump Station

Lonestar Fabricated Pipe section (Submittal on the following page(s), this sheet is the response page)

Response:

MKEC ENGINEERING, INC.	
411 North Webb Road - Wichita, KS 67206	
<input checked="" type="checkbox"/> Reviewed	<input type="checkbox"/> Reviewed As Noted
<input type="checkbox"/> Revise and Resubmit	<input type="checkbox"/> Rejected
<input type="checkbox"/> Not Required by the Contract Documents	
<small>Reviewed for conformance with the design concept of the project and compliance with the information given in the contract documents. Contractor is responsible for: dimensions to be confirmed and correlated at the job site; information that pertains solely to the fabrication process or to techniques of construction; and coordination of work of all other trades. If "Resubmit" or "Rejected" are not checked resubmission is neither desired or required.</small>	
By <u>Billy Shaul</u>	Date <u>6-29-16</u>

Standards- Certificate of Compliance

Lonestar Pipe Fabrication's ductile iron pipe is manufactured to the following standards;

All flanged pipe is manufactured using class 53 pipe in accordance with ANSI A21.15/AWWA C115. Flanges will be drilled to meet ANSI B 16.1 Standard.

All fabricated pipe is manufactured in accordance with the requirements of AWWA C151 Standards.

Rigid grooves are the standard. Flex grooves are available when indicated. The groove depth dimension will comply with the requirements of ANSI/AWWA C606.

Cement lining is applied in accordance with the requirements of ANSI A21.4/AWWA C104. Double cement available.

The exterior of the pipe will be coated with a NSF61 approved bituminous paint in accordance with ANSI A21.51/ AWWA C151/ AWWA C104.

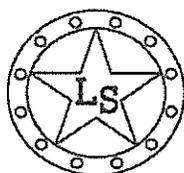
All pipe can be coated with primer (several options available) if required. All coatings will be applied per paint manufacturer's recommendations or per contract specifications.

Tnemec Series 66
High-Build Epoxoline

100% of 125# flanged pipe will be hydrostatically tested to 300 PSI prior to shipping.

Engineers Note: All piping inside the wet well will be painted by Wildcat Construction per painting requirements. (Vinyl Ester Primer, 12-18 Mils DFT, Vinyl Ester Topcoat, 12-18 Mils DFT)

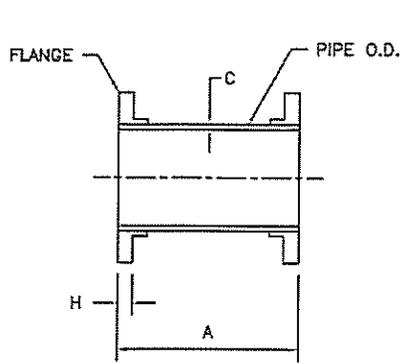
Steven Mackenrodt
President



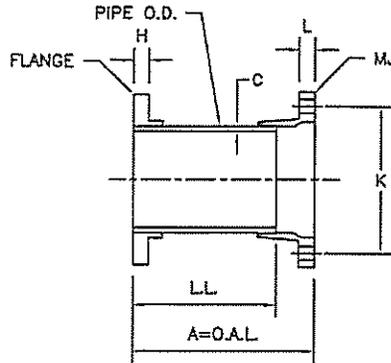
**LONESTAR PIPE
FABRICATION**

Fab DI Pipe as Needed for job completion

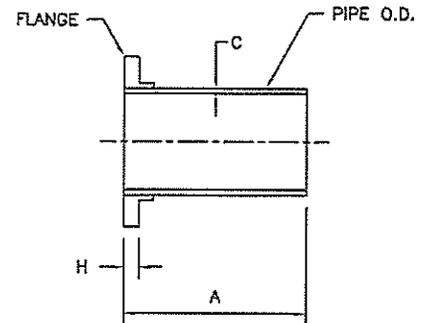
Fabricated Flanged Pipe



FLG X FLG



FLG X MJ



FLG X PE

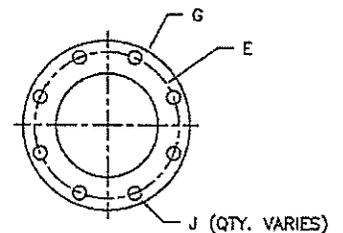
SIZE	A	C	O.D.		E	G	H		NO. OF FLG'D BOLT HOLES	J	K		L	
			MIN.	MAX.			MIN.	MAX.			MIN.	MAX.	MIN.	MAX.
			3	*			0.31	3.90			4.02	6.00	7.50	0.63
4	*	0.32	4.74	4.86	7.50	9.00	0.82	1.06	8	0.75	7.44	7.56	0.94	1.00
6	*	0.34	6.84	6.96	9.50	11.00	0.88	1.12	8	0.875	9.44	9.56	1.00	1.06
8	*	0.36	8.99	9.11	11.75	13.50	1.00	1.24	8	0.875	11.69	11.81	1.04	1.12
10	*	0.38	11.04	11.16	14.25	16.00	1.07	1.31	12	1.00	13.94	14.06	1.11	1.19
12	*	0.40	13.14	13.26	17.00	19.00	1.13	1.37	12	1.00	16.19	16.31	1.17	1.25
14	*	0.42	15.22	15.35	18.75	21.00	1.19	1.57	12	1.125	18.69	18.81	1.19	1.31
16	*	0.43	17.32	17.45	21.25	23.50	1.25	1.63	16	1.125	20.94	21.06	1.26	1.38
18	*	0.44	19.42	19.55	22.75	25.00	1.37	1.75	16	1.25	23.19	23.31	1.32	1.44
20	*	0.45	21.52	21.65	25.00	27.50	1.50	1.88	20	1.25	25.44	25.56	1.38	1.50
24	*	0.47	25.72	25.85	29.50	32.00	1.69	2.07	20	1.375	29.94	30.06	1.50	1.62
30	*	0.51	31.94	32.08	36.00	38.75	1.87	2.37	28	1.375	36.82	36.94	1.69	1.81

36" - 48" available upon request.

* As needed

** LL= lay length/ OAL= overall length

1. FLG x FLG tolerance on length +/- 0.125"
2. FLG x PE tolerance on length ≠ 0.25"
3. Ductile iron pipe will have threaded on ductile iron flanges.
4. The mechanical joint bell for 30" ductile iron pipe have thicknesses different from ANSI A21.11.
5. This is submittal material only.
6. 250 # flanges available upon request.
7. Wall rings available upon request



FLANGE DETAIL
APPLICABLE TO ALL 125 LB. FLANGES SHOWN ABOVE



LONESTAR PIPE FABRICATION

