NOTE: 1. PRIOR TO FABRICATION, THE CONTRACTOR SHALL CHECK THE FINISHED DIMENSIONS OF FOUNDATIONS AND OF STRUCTURES AND OF EQUIPMENTS AGAINST PIPING DRAWINGS.
2. NPS BELOW 2", DIMENSIONS AND ROUTING SHALL BE FIELD ADJUSTED.

1"-SER-00023018-E2A2E-H 12X1"NPD

F7 G13 B11

E 1613000 N 3416193 EL +100719

1 X1 " NPD

4 1 X1 " NPD

3 EL +100417 SEE ISD U00A-SER-00023008-01 00 UNIT E 1614410 N 3416500 EL +102763

HTUD2 M



EREC	TION MATERIALS			
NΠ	COMPONENT DESCRIPTION	SIZE	ITEM CODE	QTY
1	PIPE, B36.10M, PE, A335 GR.P11, SMLS, S-160	1	I 70 441 20 3	6. 0 M
2	FIGURE-8 BLANK, B16.48, CL 300, FF, A182 GR.F11 CL.2	1	I 465724564	2
3	ELBDW 90 DEG., B16.11, CL 6000, SWE, A182 GR.F11 CL.2	1	170256980	5
4	TEE EQUAL, B16.11, CL 6000, SWE, A182 GR.F11 CL.2	1 X1	170257399	2
5	FULL COUPLING, B16.11, CL 6000, SWE, A182 GR.F11 CL.2	1	I 70 31 8974	1
6	NIPPLE, B36.10M, PBE, A335 GR.P11, SMLS, 75MM LDNG, S-160	1	I70441473	1
7	FLANGE SW, B16.5, CL 300, RF, A182 GR.F11 CL.2, S-160	1	I70441504	6
8	BLIND FLANGE, B16.5, CL 300, RF, A182 GR.F11 CL.2	1	I 70 25 62 31	1
9	GATE VALVE, API 602, CL 800, SWE, BB DS&Y, HW-DPERATOR, A18 2 GR.F11 CL.2, TRIM 13CR W/STELLITE SEATS, SDLID WEDGE, W/S -160 NIPPLE PE L=150MM, PWHT	1	1529416798	3
10	GATE VALVE, API 602, CL 300, RF, BB DS&Y, HW-DPERATOR, A182 GR. F11 CL. 2, TRIM 13CR W/STELLITE SEATS, SDLID WEDGE, B16.	1	I1 68393498	1
11	STUD BOLT W/2 HEAVY HEX NUTS, B18.2.2, A193 B16 / A194 4, 8 5.0 $$	5/8	I46552009	12
12	STUD BOLT W/2 HEAVY HEX NUTS, B18.2.2, A193 B16 / A194 4, 1 00.0MM $$	5/8	I46552005	8
13	GASKET SPIRAL WDUND, B16.20, CL 300, RF, 316SS, THERMICULIT E 835 FILL, 316SS CR & IR, B16.5, 4.5T	1	I 21 81 41 891	7
14	GSL5-A-L200	1	PSUPPORT	1
15	BC7-2-300-250-0	1	PSUPPORT	2
	2L5-A-L200	1	PSUPPORT	1

BILL OF MATERIALS

	MAT'L	OPER.		DESIG	SN	TES	Т	INSU	LATION	PAINT								
NPS	CLASS	PRESS. (kg/cm2g)	TEMP. (°c)	PRESS. (kg/cm2g)	TEMP.	PRESS. (kg/cm2g)	MEDIUM	TYPE	TH'K (mm)	CODE	PWHT	NDE						-
1"	E2A2E	27. 4	330	31.5	360	59. 66	HYDRO	Н	100MM	F	Y	100						ł
1'	E2A2E	27. 4	330	31.5	360	0	VISUAL	Н	100MM	F	Y	100						Г
																		-
													0 31 -AUG-16	ISSUED FOR CONSTRUCTION	STC	BSK	HJP	L
								1					1 27-APR-17	REVISED AS MARKED	STC	BSK	HJP	
													2 30-MAY-18	REVISED AS MARKED	STC	BSK	HJP	
													REV. DATE	DESCRIPTION	BY	CHECK'D	APPR'D	

UP 9 UP STEM UP OPERATE CLOSED

UP OPERATE CLOSED

F7 G13 B11

F7 G13 B12 S15 BC7 BC7-2-300-250-0 TDS EL. 100250

S16 SL SL5-A-L200

<9> F7 G13 B12

SEE ISD U00A-SER-00023352-01 00 UNIT E 1613000 N 3415070 EL +100417

HJP								
HJP	P&ID NO.	AA00-PID-0021-023	UNIT NO.	00	STRESS	ND		
HJP	GAD NO.	00-DW-PI-1101	-PI-1101 LINE NO. 1"-SER-00023018-E2A2E-H					
APPR'D	DWG NO.	U00A-SER-00023	U00A-SER-00023018-01					