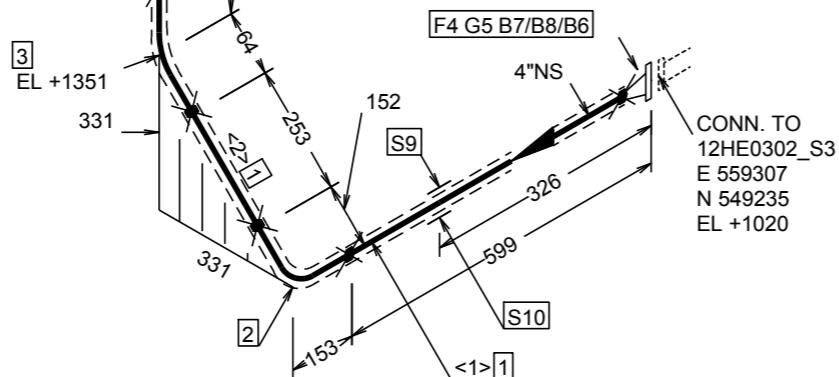
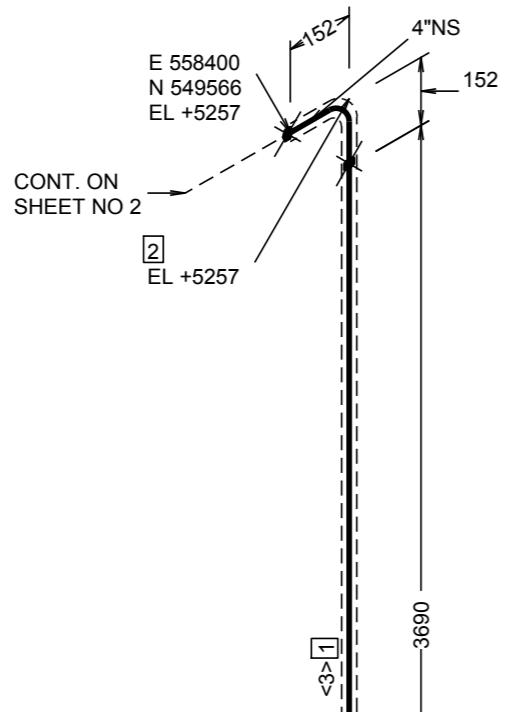


BILL OF MATERIALS

MATERIAL LIST

PT NO	COMPONENT DESCRIPTION	N.S. (INS)	QTY	HOLD
1	PIPE PIPE, SS, SMLS, BW, SCH-10S, ASME B 36.19 ASTM A312 TP316L	4	4466MM	
PT NO	COMPONENT DESCRIPTION	N.S. (INS)	QTY	HOLD
2	FITTINGS 90 ELBOW, BW, SS, ASME B16.9 SCH 10S ASTM A403-WP-316L-S	4	2	
3	45 ELBOW, BW, SS, ASME B16.9 SCH 10S ASTM A403-WP-316L-S	4	1	
4	FLANGE WNRF ANSI B16.5 150# RF SCH 10S SS ASTM A 182-F316L	4	1	
5	GASKETS GASKET, EXPANDED PTFE 3MM THK, 150# RF, ASME B16.21	4	1	
6	BOLTS 100 LONG STUD BOLTS & TWO NUTS WITH WASHER, STUD: ASTM A 193 GR. B8M Class 2, ASME B18.31.2	5/8	8	
7	NUTS: ASTM A 194 GR. 8M Class 2, ASME B18.2.2	5/8	16	
8	WASHER ASTM A193 GR. B8M	5/8	16	
9	SUPPORTS T2- ZSI-PS-202, SUPPORT, H = 250, L = 250, D = 80, C = 75	4	1	
10	SS-1, ZSI MT-101, SHOE SUPPORT, H = 100	4	1	

Issued for construction



N



B

C

D

E

F

G

DESIGN TEMP. °C	90	PIPING SPEC.	1SM0B01
DESIGN PRESS. bar (g)	5.5 /FV	P&ID No;	TIN/014/BE/DCNB/M1/PID/15
OPERATING TEMP. °C	65	PIPING GAD.	TIN-014-BE-DCNB-M1-PIP-GAD-01
OPERATING PRESS. bar (g)	5.5	PAINTING SPEC.	AIL/JHAGADIA/PAINTING/01
TEST PRESSURE bar (g)	8.25	INSULATION SPEC.	ZSI-MT 402 & 401
TEST MEDIUM,	Water	PIPE SUPPORT STD.	ZSI-PS-AIL-001
RADIOGRAPHY	10%	TRACING	N
P.W.H.T.	NO	STRESS REQ.	-
INSULATION TYP/THK.	Mineral wool/65	STRESS SYSTEM NO	-

NOTES:

- 1) ALL DIMENSIONS AND ELEVATION ARE IN MM.
- 2) SITE TO VERIFY DIMENSION PRIOR TO ERECTION OF PIPE
- 3) THE SPOOL LENGTH TO BE ADJUSTED AT SITE TO MATCH THE NOZZLE OF EQUIPMENT/PUMP/PACKAGES
- 4) PLEASE CONSIDER SOCKOLET FOR 2" AND BELOW AND WELDOLET ABOVE 2" WHERE COUPLING IS CONSIDERED IN BRANCHING

LEGEND :

SOCKET WELD	SUPPORT PIPE	SHOP WELD	TRACED PIPE	INSUL PIPE	PART NO.	CUT LENGTH

3	ISSUED FOR CONSTRUCTION	25/05/2021	HARI	HAWALDAR	RGP
Revision	Description	Date	Drawn	Chk'd.	Appd.
REVISION STATUS					
Project No.:	Project :	PE3021	BASIC & DETAIL ENGG. FOR 2,5 DCNB PLANT	LOCATION: JHAGADIA - GUJARAT	
	WE CREATE SOLUTIONS	AARTI INDUSTRIES LTD.	Size A3		
Zeppelin Systems India Pvt. Ltd.	Level 4, ADM Building, Alembic campus, Alembic Road, Vadodara - 390 003, India	100-PL-1SM0B01-121508-H-65_MP	Scale NTS		
Dwg. No.:	PE3021-MI-003	Page 1 of 4	Page 1 of 4		
Unit:	PROCESS_PLANT	Revision 3	Revision 3		