



BILL OF MATERIALS				
PIPE				
ID	QTY	ND	DESCRIPTION	MESC NO.
1	13.794M	1"	PIPE, 10S, ASTM A312-TP316L	7436330331
2	5.223M	1 1/2"	PIPE, 10S, ASTM A312-TP316L	7436330491
FITTINGS				
ID	QTY	ND	DESCRIPTION	MESC NO.
3	9	1"x1/2"	SOCKET WELD X THREADED REDUCING COUPLING	DIRECT ORDER
4	8	1"	ELBOW 90 DEG BW, 10S, ATM A403-WP316L	7633413041
5	8	1/2"	SPRAY NOZZLE MW-C	DIRECT ORDER
6	1	1/2"	MODEL AD-2 AUTOMATIC DRAIN VALVE 1/2 INCH NPT, 175 PSI (12.1 BAR)	DIRECT ORDER
7	1	1"	TENSIONING BRACKET & EYE BLOCK	DIRECT ORDER
8	1	1 1/2"x1"	REDUCER CONC BW, 10S, ASTM A403-WP316L	7633706241
9	5	1"	EQUAL TEE BW, 10S, ASTM A403-WP316L	7633848041
10	4	1 1/2"x1"	REDUCING TEE BW, 10S, ASTM A312-TP316L	7633856561
FLANGES				
ID	QTY	ND	DESCRIPTION	MESC NO.
11	8	1"	WELD NECK FLANGE, CL150, ASTM A182-F316	7665792061
12	3	1 1/2"	WELD NECK FLANGE, CL150, ASTM A182-F316	7665792081
FASTENERS				
ID	QTY	LONG DESCRIPTION (SIZE)		MESC NO.
13	16	4 NO. 1/2" X 70MM, STUD BOLT WITH NUTS, CL150, ASTM A193-B7/A194-2H		8138611551
14	4	4 NO. 1/2" X 80MM, STUD BOLT WITH NUTS, CL150, ASTM A193-B7/A194-2H		8138611571
15	4	1" ND, GASKET TANGED INSERT, CL150, GRAPHITE		8530010081
16	1	1 1/2" ND, GASKET TANGED INSERT, CL150, GRAPHITE		8530010121
PIPE SUPPORTS				
ID	QTY	LONG DESCRIPTION (SIZE)		TYPE
17	1	PIPE SUPPORT STANCHION 275-300MM, C/W 40NB CLAMP		40-SE
18	1	PIPE SUPPORT STANCHION 250-275MM, C/W 40NB CLAMP		40-SD
19	1	PIPE SUPPORT STANCHION 325-350MM, C/W 25NB CLAMP		25-SG
20	4	25NB U-BOLT		25-UA

KEY:
 DENOTES PIPEWORK WHICH IS ALL ON THE SAME PLANE, WITH SPRAY HEADS & PIPE SUPPORTS ALSO ON THAT PLANE AND PERPENDICULAR TO THE MAIN PIPE-RUN.

GENERAL NOTES:

1. PIPING SHALL BE FABRICATED IN ACCORDANCE WITH E.T.S. Nos 102, 8, AND 8602.
2. ALL MATERIAL REQUIRED TO FABRICATE PIPE SUPPORTS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR EXCEPT FOR PIPE TRUNNIONS AND WHERE NOTED.
3. PIPE SLIDES, GUIDES & ANCHOR SHOES SHALL BE IN ACCORDANCE WITH STD. DRAWINGS S.44.036 TO S.44.046.
4. PIPING SHALL BE TESTED IN ACCORDANCE WITH E.T.S. 616.
5. T1, T2, T3 ETC DENOTES TIE-INS TO EXISTING PIPING OR EQUIP'T.
6. ALL FLANGE BOLT HOLES SHALL STRADDLE CENTRE LINES UNLESS INDICATED OTHERWISE.
7. BLUNDS & SPACERS TO COMPLY WITH STANDARD DRAWINGS S.38.011, S.38.042/043.
8. PIPING SHALL BE INSULATED IN ACCORDANCE WITH E.T.S. 108.
9. FIELD WELDS (FW) AND FIELD FIT WELDS (FFW) HAVE BEEN SHOWN ON THE ISOMETRIC TO GIVE GUIDANCE TO THE CONTRACTOR. THE CONTRACTOR SHOULD CONFIRM THE POSITION OF FFWs DURING CONSTRUCTION TO SUIT SPOOLING AND ERECTION. AN ADDITIONAL PIPE LENGTH OF 150mm HAS BEEN INCLUDED IN THE BILL OF MATERIALS WHERE FFWs ARE SPECIFIED.
10. TREPAINED CONNECTIONS ON LIVE LINES SHALL BE IN ACCORDANCE WITH CLIENT PROJECT WORK INSTRUCTION EPC.6.8.3.1.
11. NO PRESSURE STEEL PIPING IN DIRECT CONTACT WITH ITS SUPPORTING PLATFORM AS PER ETS.8602 PARA 7.12.
12. ALL DIMENSIONS TO BE SITE CHECKED PRIOR TO FABRICATION.

DRAWING SPECIFIC NOTES:

1. ALL BENDS TO BE 30 DEGREES AND PULLED WITH RADIUS EQUALING 5x DIAMETER UNLESS INDICATED OTHERWISE.
2. PIPE SUPPORTS HAVE BEEN LOCATED NEAR TO ELBOW WELDS. HOWEVER, THESE MAY BE RELOCATED DURING INSTALLATION.
3. FOR ORIENTATION SEE TOP RING GENERAL ARRANGEMENT DRAWING.

PROJECT REVISION BOX				
PROJECT DRAWING/QDMS No:				
PIPING CLASS	G013031	PIPE SUPPORT SCHD No.	-	
CORROSION ALLOWANCE	mm	STEAM TRACE REF. No.	-	
WORKING TEMP	°C	STRESS SKETCH REF. No.	-	
INSULATION THK	mm	PEFS DWG No.	-	
DESIGN TEMP	°C	STRESS RELIEF	-	
DESIGN PRESS	BARG	TIE INS SCHEDULE	-	
GEN ARRGT DWG No.	-	PAINT SPEC.	-	
TEST MEDIUM/PRESS	BARG	DENIM WATER/28.35	-	
PROJ. REV.	SI	0	FOR CONSTRUCTION	
AM. REV.			DESCRIPTION	DATE
			DRAWN	CHKD
			APPD	

PROJECT NAME:			
DOCUMENT CLASS:	AREA:	SPHERE TAG:	
ISOMETRIC			
PLANT:	LINE TAG:		
AIM NUMBER:	SCALE:	SHEET:	UNIT:
	VARIES @ A1	1 OF 1	OMS
REV.	0		