



BILL OF MATERIAL				
FABRICATION MATERIALS				
PT NO	COMPONENT DESCRIPTION	N. S. (INS)	PIPE SPEC.	QTY
1	PIPE SMLS BE XXS A106 GR. B, NACE	6	G1	6.7M
2	WELDOLET XXS A105, NACE	6 x 1.1/2	G1	1
3	WELDOLET XXS A105, NACE	6 x 3/4	G1	1
4	90 DEG LR EL.BOW SMLS BW XXS A234 GR. WPB	6	G1	4
5	45 DEG EL.BOW SMLS BW XXS A234 GR. WPB	6	G1	1
6	FLANGE 2500LB WN RTJ XXS A105, NACE	6	G1	1
7	FLANGE 2500LB WN RTJ XXS A105, NACE	1.1/2	G1	1
8	FLANGE 2500LB WN RTJ XXS A105, NACE	3/4	G1	1


  

ERECTION MATERIALS				
PT NO	COMPONENT DESCRIPTION	N. S. (INS)	PIPE SPEC.	QTY
9	R47 OVAL RING SOFT IRON BHN90 ZINC COATED	6	G1	2
10	R23 OVAL RING SOFT IRON BHN90 ZINC COATED	1.1/2	G1	1
11	R16 OVAL RING SOFT IRON BHN90 ZINC COATED	3/4	G1	1
12	380 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	2	G1	8
13	200 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	1.1/8	G1	4
14	185 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	3/4	G1	4
15	DB&B SLIM-LINE INSTRUMENT MONOFLANGE 2500LB PER PIPING SPEC. G1	3/4	G1	1
16	901RD 146	6		1
17	901TW 145	1.1/2		1
18	901PZT 145	3/4		1


  


XO	AS BUILT	AR	RAGU	SD	09.04.12
2	AS BUILT	FT	BS	SD	07.06.10
1	REVISED PER GSI'S COMMENTS	FT	BS	SD	14.05.08
0	APPROVED FOR CONSTRUCTION	NN	CG	SD	17.04.08
REV. NO	DESCRIPTION OF REVISION	BY	CHKD	APPD	DATE

CLIENT :






PROJECT :		JOB NO.	
FPSO CIDADE DEITAJAI		21-9791	
TITLE:		QUANTITY:	
PIPING ISOMETRIC		1	
LINE NO	CLASS :	ABS	
901-6"-PG-1020A-G1 (SHT.1/2)	TYPY DRAWING. NO.		
901-6"-PG-1020B-G1 (SHT.1/2)	7000-04-L-26-XN-05121		

GSI DISCIPLINE SIGN		APPROVED BY		 <b>Gas Services International (S) Pte Ltd</b>
PROCESS	AR Y	SD		
MECHANICAL	VC	CC		
PIPING	MT	NN		
STRUCTURAL	WCH	N.T.S		
E & I	FAK	SCALE		
PROJECT	EG	ACAD DWG :	G375-5121-40_X0	JOB NO:
		K375		GSI DWG. NO:
		GSI-6375-5121		SHT 40
				REV: XO

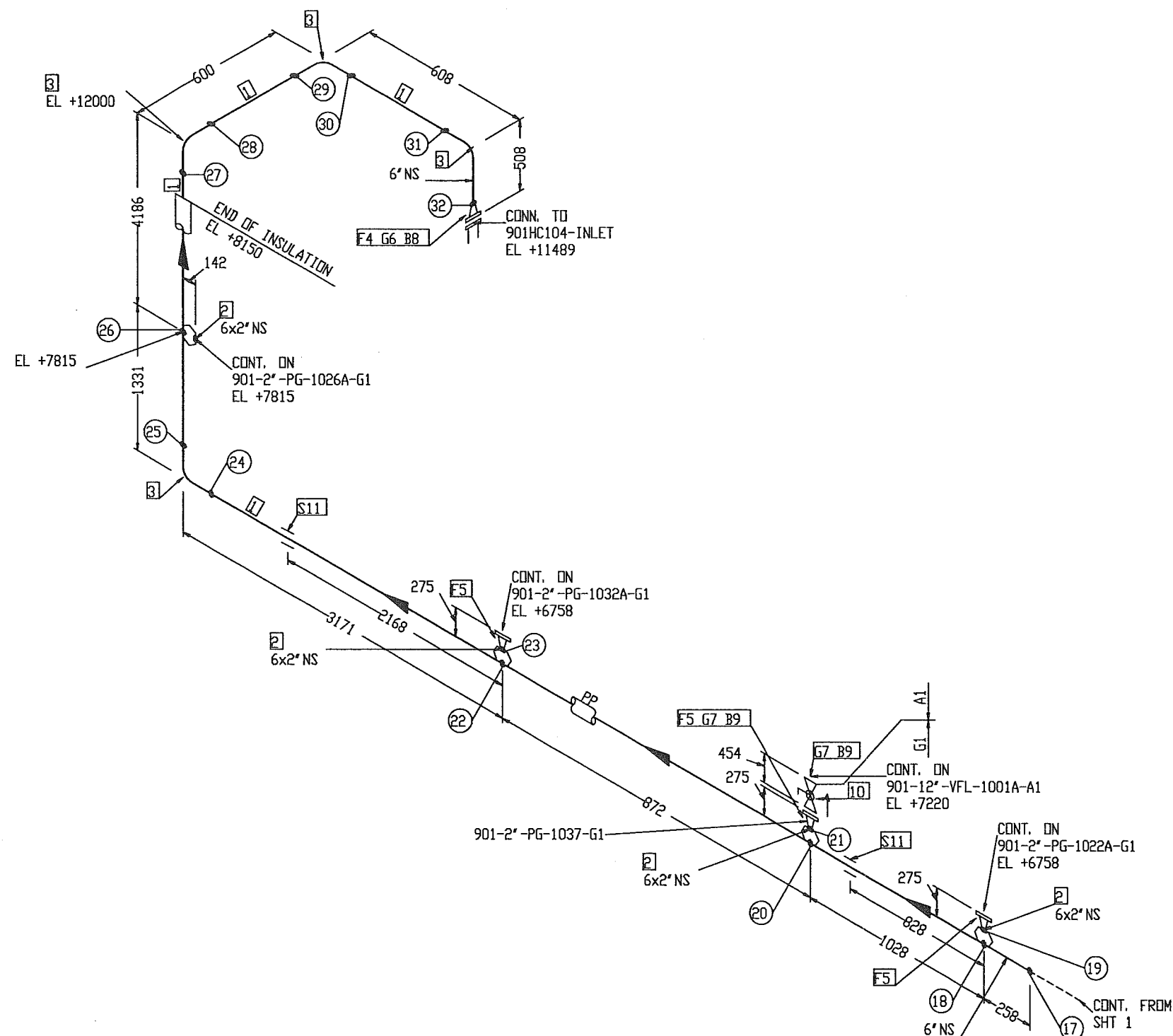


**JURONG SHIPYARD PTE LTD**  
(A subsidiary of SembCorp Marine Ltd)

ENGINEERING DEPARTMENT

XXX SECTION



- NOTES:**
- CONTRACTOR TO DECIDE ON FIELD WELDS AND EXTRA SPOOL LENGTH WHEREVER NECESSARY.
  - WELD NO. (17) TO (32)

DESIGN DATA	
1. DESIGN PRESSURE	: 241.3 BARG
2. OPERATING TEMPERATURE	: 128° C
3. HYDROSTATIC TEST PRESSURE	: 361.95 BARG
4. CORROSION ALLOWANCE	: 1/8"
5. RADIOGRAPHY	: 100%
6. INSULATION	: PP
7. INSPECTION BY	: GSI (QC)
8. PWHT	: YES (FOR W.T. ABOVE 19mm)

## BILL OF MATERIAL

### FABRICATION MATERIALS

PT NO	COMPONENT DESCRIPTION	N. S. (INS)	PIPE SPEC.	QTY
1	PIPE SMLS BE XXS A106 GR. B, NACE	6	G1	10.5M
2	WELDOLET XXS A105, NACE	6 x 2	G1	4
3	90 DEG LR ELBOW SMLS BW XXS A234 GR. WPB	6	G1	4
4	FLANGE 2500LB WN RTJ XXS A105, NACE	6	G1	1
5	FLANGE 2500LB WN RTJ XXS A105, NACE	2	G1	3

### ERECTION MATERIALS

PT NO	COMPONENT DESCRIPTION	N. S. (INS)	PIPE SPEC.	QTY
6	R47 OVAL RING SOFT IRON BHN90 ZINC COATED	6	G1	1
7	R26 OVAL RING SOFT IRON BHN90 ZINC COATED	2	G1	2
8	360 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	2	G1	8
9	185 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	1	G1	16
10	BALL VALVE 2500LB RTJ, BV-48 (CSC)	2	G1	1

### SUPPORTS

PT NO	COMPONENT DESCRIPTION	N. S. (INS)	PIPE SPEC.	QTY
11	STD TTI CLAMP	6	G1	2

X0	AS BUILT	AR	RAGU	SD	09.04.12
3	AS BUILT	FT	BS	SD	07.06.10
2	REVISED PWHT	FT	BS	SD	16.05.08
1	REVISED PER TTI'S RECOMMENDATION	NN	CG	SD	14.05.08
0	APPROVED FOR CONSTRUCTION	NN	CG	SD	17.04.08
REV. NO	DESCRIPTION OF REVISION	BY	CHKD	APPD	DATE

CLIENT :



PROJECT :	FPSO CIDADE DEITAJAI	JOB NO.	21-9791
TITLE :	PIPING ISOMETRIC	CLASS :	ABS
LINE NO	901-6"-PG-1020A-G1 (SHT.2/2)	TYPE DRAWING NO.	7000-04-L-26-XN-05121
LINE NO	901-6"-PG-1020B-G1 (SHT.2/2)		

ESI DISCIPLINE SIGN	APPROVED BY	SD
PROCESS	AR	CHECKED BY
MECHANICAL	VC	DRAWN BY
PIPING	MH	SCALE
STRUCTURAL	WCH	N.T.S.
E & I	AK	
PROJECT	EG	ACAD Dwg
PROJECT	EG	3375-5121-41_X0
JOB NO.	K375	ESI Dwg. NO.
ESI Dwg. NO.	GSI-6375-5121	SHT
SHT	41	REV
REV	X0	



**JURONG SHIPYARD PTE LTD**  
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SINGAPORE

ENGINEERING DEPARTMENT XXX SECTION

