

"AS - BUILT"

- NOTES:**
- CONTRACTOR TO DECIDE ON FIELD WELDS AND EXTRA SPOOL LENGTH WHEREVER NECESSARY.
 - WELD NO. ① TO ⑨

BILL OF MATERIAL

FABRICATION MATERIALS

PT NO	COMPONENT DESCRIPTION	N. S. (INS)	PIPE SPEC.	QTY
1	PIPE SMLS BE SCH 120 A106 GR. B, NACE	6	E1	5.2M
2	WELDLET SCH 120 x SCH 160 A105, NACE	6 x 1.1/2	E1	1
3	WELDLET SCH 120 x SCH 160 A105, NACE	6 x 3/4	E1	1
4	90 DEG LR ELBOW SMLS BW SCH 120 A234 GR. WPB, NACE	6	E1	3
5	FLANGE 900LB WN RTJ SCH 120 A105, NACE	6	E1	4
6	FLANGE 1500LB WN RTJ SCH 160 A105, NACE	1.1/2	E1	1
7	FLANGE 1500LB WN RTJ SCH 160 A105, NACE	3/4	E1	1

ERECTION MATERIALS

PT NO	COMPONENT DESCRIPTION	N. S. (INS)	PIPE SPEC.	QTY
8	R45 OVAL RING SOFT IRON BHN90 ZINC COATED	6	E1	4
9	R20 OVAL RING SOFT IRON BHN90 ZINC COATED	1.1/2	E1	1
10	R14 OVAL RING SOFT IRON BHN90 ZINC COATED	3/4	E1	1
11	220 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	1.1/8	E1	12
12	205 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	1.1/8	E1	12
13	145 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	1	E1	4
14	170 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	3/4	E1	4
15	DB&B SLIM-LINE INSTRUMENT MONOFLANGE 1500LB PER PIPING SPEC. E1	3/4	E1	1
16	901RD 133	6		1
17	901TW 135	1.1/2		1
18	901PZT 135	3/4		1

SUPPORTS


19	STD TTI CLAMP	6	E1	3
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X0	AS BUILT	AR	RAGU	SD	09.04.12
4	AS BUILT	FT	BS	SD	07.06.10
3	REVISED DUE TO INTERFERENCE WITH MONORAIL	EC	BS	SD	28.07.08
2	ADDED FLANGES PER GSI COMMENTS & REVISED AS NOTED	EC	BS	SD	28.05.08
1	REVISED AS NOTED	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 :

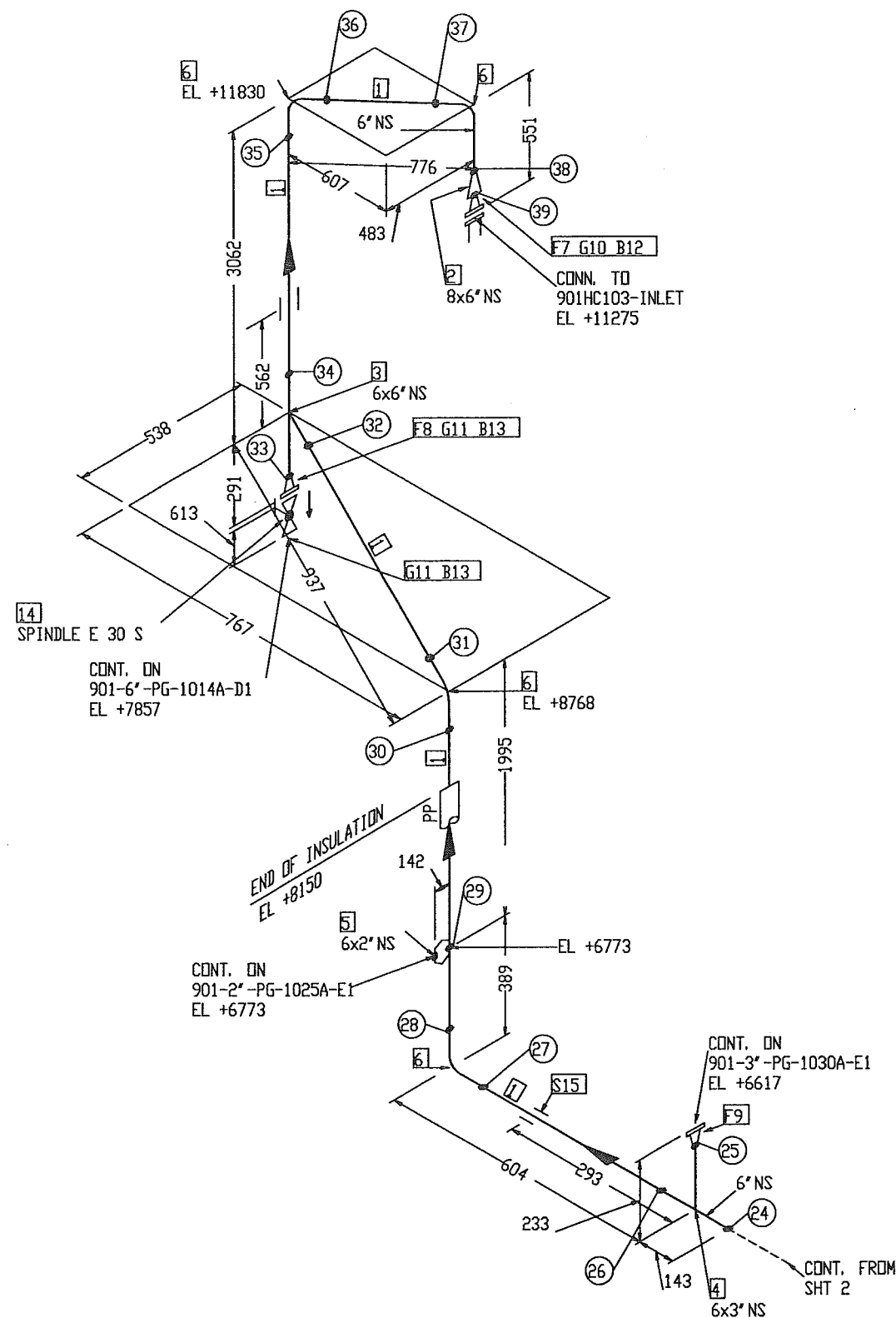


PROJECT:	FPSO CIDADE DEITAJAI	JOB NO.	21-9791
TITLE:	PIPING ISOMETRIC	QUANTITY:	1
LINE NO	901-6"-PG-1013A-E1 (SHT.1/3)	CLASS :	ABS
	901-6"-PG-1013B-E1 (SHT.1/3)	TOTAL DRAWING NO.	7000-04-1-26-XN-05121

GSI DISCIPLINE SIGN		APPROVED BY	SD								
PROCESS	AK	CHECKED BY	CG								
MECHANICAL	VC	DESIGN BY	NN								
PIPING	WH	SCALE	N.T.S								
STRUCTURAL	WCH										
E & I	AK										
PROJECT	EG	ACAD ENG	G375-5121-30_X0	JOB NO	K375	GSI ENG. NO	GSI-6375-5121	SHT	30	REV	X0

JSL JURONG SHIPYARD PTE LTD
(A subsidiary of SembCorp Marine Ltd)
ENGINEERING DEPARTMENT XXX SECTION





"AS - BUILT"

- NOTES:**
1. CONTRACTOR TO DECIDE ON FIELD WELDS AND EXTRA SPOOL LENGTH WHEREVER NECESSARY.
 2. WELD NO. (24) TO (39)

DESIGN DATA	
1. DESIGN PRESSURE	: 92 BARG
2. OPERATING TEMPERATURE	: 100° C
3. HYDROSTATIC TEST PRESSURE	: 138 BARG
4. CORROSION ALLOWANCE	: 1/8"
5. RADIOGRAPHY	: 100%
6. INSULATION	: PP
7. INSPECTION BY	: GSI (QC)
8. PWHT	: NO

BILL OF MATERIAL

FABRICATION MATERIALS

PT NO	COMPONENT DESCRIPTION	N. S. (INS)	PIPE SPEC.	QTY
1	PIPE SMLS BE SCH 120 A106 GR. B, NACE	6	E1	5.8M
2	CONC RED BW SCH 120 A234 GR. WPB, NACE	8 x 6	E1	1
3	EQUAL TEE BW SCH 120 A234 GR. WPB, NACE	6 x 6	E1	1
4	REDUCING TEE BW SCH 120 x SCH 160 A234 GR. WPB, NACE	6 x 3	E1	1
5	WELDOLET SCH 120 x SCH 160 A105, NACE	6 x 2	E1	1
6	90 DEG LR ELBOW SMLS BW SCH 120 A234 GR. WPB, NACE	6	E1	4
7	FLANGE 900LB WN RTJ SCH 120 A105, NACE	8	E1	1
8	FLANGE 900LB WN RTJ SCH 120 A105, NACE	6	E1	1
9	FLANGE 900LB WN RTJ SCH 160 A105, NACE	3	E1	1

ERECTION MATERIALS

PT NO	COMPONENT DESCRIPTION	N. S. (INS)	PIPE SPEC.	QTY
10	R49 OVAL RING SOFT IRON BHN90 ZINC COATED	8	E1	1
11	R45 OVAL RING SOFT IRON BHN90 ZINC COATED	6	E1	2
12	230 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	1.3/8	E1	12
13	205 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	1.1/8	E1	24
14	GLOBE VALVE 900LB RTJ, GLV-26	6	E1	1






SUPPORTS

15	STD TTI CLAMP	6	E1	2
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REV. NO	DESCRIPTION OF REVISION	BY	CHK'D	APP'D	DATE
X0	AS BUILT	ART	RAGU	SD	09.04.12
2	AS BUILT	FT	BS	SD	07.06.10
1	ADDED SUPPORT PER TIT'S RECOMMENDATION	EC	BS	SD	28.07.08
0	APPROVED FOR CONSTRUCTION	NN	CG	SD	17.04.08

CLIENT : **OOG TK FPSO**

PROJECT:	FPSO CIDADE DEITAJAI	JOB NO.	21-9781
TITLE:	PIPING ISOMETRIC	QUANTITY:	1
LINE NO	901-6"-PG-1013A-E1 (SHT.3/3) 901-6"-PG-1013B-E1 (SHT.3/3)	CLASS :	ABS
PROJECT	EB	TIPJ DRAWING NO.	7000-04-L-26-XN-05121

GSI DISCIPLINE SIGN		APPROVED BY		SD		 wasco	Gas Services International (S) Pte Ltd					
PROCESS	AK	CHECKED BY		CG								
MECHANICAL	VC	DRAIN BY		NN								
PIPING	WCH	SCALE		N.T.S								
STRUCTURAL	WCH											
E & I	AK	ACAD DWS		JOB NO		ESI DWS. NO		REV				
PROJECT	ES	6375-5121-32_X0		K375		GSI-6375-5121		SHT 32		X0		
<div><div>JURONG SHIPYARD PTE LTD (A subsidiary of SembCorp Marine Ltd) SEMP CORP</div></div>											<div> ISO 9001</div>	
ENGINEERING DEPARTMENT						XXX		SECTION				

