

BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	GRADE
61	2	FLANGE: 3" 1500# ANSI RTJ c/w SCH 160 BORE (N3A,N3B)	SA-105N
62			
63	3	(180°) RETURN ELBOW: 3" LR SCH 160 (REHEAT COIL)	SA-234-WPB
64			
65	1	PIPE: 3" SCH. 160 SMLS x 2973mm (N3B)	SA-106 GR. B
66	1	PIPE: 3" SCH. 160 SMLS x 2337 mm (REHEAT COIL)	SA-106 GR. B
67	1	PIPE: 3" SCH. 160 SMLS x 2489 mm (REHEAT COIL)	SA-106 GR. B
68	1	PIPE: 3" SCH. 160 SMLS x 2973 mm (N3A)	SA-106 GR. B
69			
70			
71	1	TOL: 3/4" CL 6000# (C8B)	SA-105N
72	1	TOL: 1/2" CL 6000# (C8C)	SA-105N
74	1	ANGLE 2" x 2" x 1/4" x 2134mm LG (COIL SUPPORT ANGLE)	SA-106 GR. B
75			

DESIGN DATA

DESIGN CODE: ASME CODE B 31.3 2004 EDITION
 DESIGN PRESSURE: 3125 PSI @ 200°F (21546 kPa @ 93°C)
 MINIMUM DESIGN METAL TEMPERATURE: -20°F @ 3125PSI (-29°C @ 21546kPa)
 MAMP: 3125 PSI @ -20/200°F (21546 kPa @ -29/93°C)
 PIPING SYSTEM HYDROTEST: 4688 PSI (32323.75 kPa)
 IMPACT TESTS: NONE, PER TABLE 323.2.2
 CORROSION ALLOWANCE: 1/8" (3.2mm)
 PIPE SPECIFICATION: 3" NPS SCH 160 . MATERIAL: SA106 GR. B SEAMLESS
 FLANGES SPECIFICATIONS: SA-105N, 1500# ANSI, 3" RTJ SCH 160.
 WELD FITTINGS SPECIFICATIONS: SA-234-WPB, SCH 160.
 NDT: #100-RT
 PWHT: NONE, PER PARA. AND TABLE 331.1.1
 CRN:U0978.2
 SURFACE PREP (EXT): NONE
 SURFACE PREP (INT): NONE

NOZZLE SCHEDULE

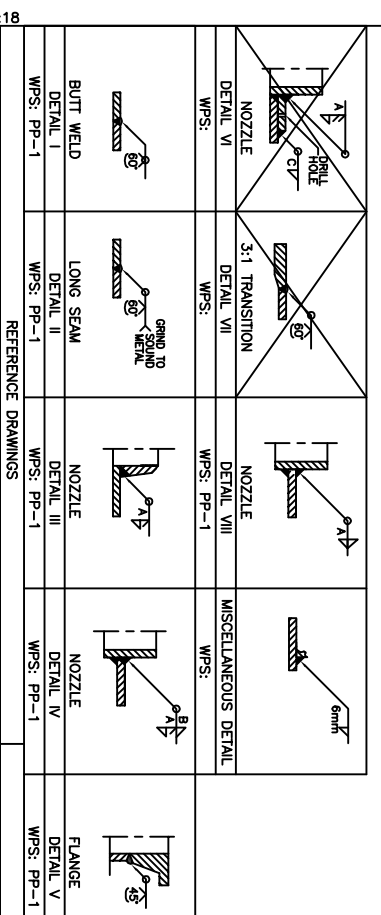
NOZZLE	SIZE	TYPE	SCH	RATING	SERVICE	PROJECTION	RE-PAD	WELD	FILLET WELD	BOM
N1						OUTSIDE	INSIDE	DETAIL	A B C D	ITEM
N1										
N2										
N3A	3"	RTJ	160	1500#	REHEAT COIL IN	-	-	VIII	6	0*
N3B	3"	RTJ	160	1500#	REHEAT COIL OUT	-	-	VIII	6	0*
N3C										
N3D										
N3E										
N3F										
N3G										
N3H										
N3I										
N3J										
N3K										
N3L										
N3M										
N3N										
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N3S										
N3T										
N3U										
N3V										
N3W										
N3X										
N3Y										
N3Z										
C1										
C2										
C3										
C4										
C5										
C6										
C7										
C8A										
C8B	3/4"	TOL	NPT	6000#	TI	-	-	III	10	0*
C8C	1/2"	TOL	NPT	6000#	PI	-	-	III	10	0*
C9										72

REVISIONS

NO.	DATE	ISSUE	CHK'D	APP'D	DISCIPLINE	INITIALS	DATE
0	07/04/11	ISSUED FOR REGISTRATION			MECHANICAL		
1	07/04/25	ISSUED FOR CONSTRUCTION/LOADED C8C & CHANGED THE PROJECTIONS & POSITIONS OF N3A,N3B			CIVIL/STRUCTURAL		

REFERENCE DRAWINGS

NUMBER	TITLE	NO.	BY	DATE
ENC-LH-01-01		0	MK	07/04/11
ENC-LH-01-02		1	MK	07/04/25
ENC-LH-01-03				
ENC-LH-01-05				
ENC-LH-01-08				



- NOTES:
1. ALL BOLTS TO STRADDLE NATURAL VESSEL CENTERLINES.
 2. MISCELLANEOUS ATTACHMENT WELDS TO BE 6mm FILLET UNLESS OTHERWISE SPECIFIED.
 3. ALL INTERNAL SHARP EDGES TO BE ROUNDED OFF.
- * SPECIFICS MIN. REQUIRED DIMENSION. EXCESS OF SPECIFIED DIMENSION IS ACCEPTABLE

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SCALE	DRAWN	DATE	PROJECT NO.	JOB NO.	DRAWING NO.	REV.
NIS	MK	07/04/25	ENC-WF9-02	ENC-LH-01-04		1