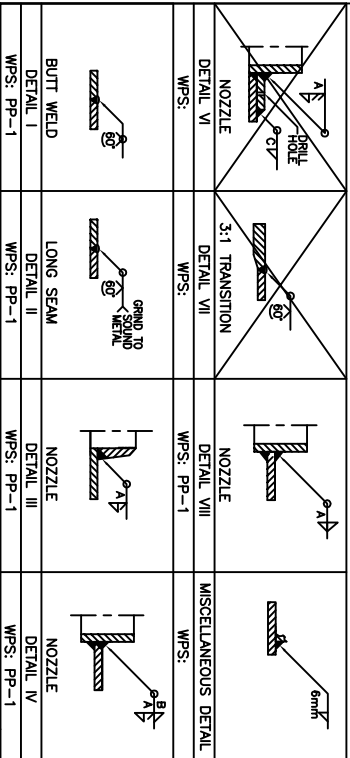


NOZZLE SCHEDULE

NOZZLE	SIZE	TYPE	SCH	RATING	SERVICE	PROTECTION	RE-PAD	WELD DETAIL	FILLET	A	B	C	D	BOM ITEM
N1	3"	RTJ	160	1500#	PREHEAT COIL IN			VIII	6	0*				46,50
N2A	3"	RTJ	160	1500#	PREHEAT COIL OUT			VIII	6	0*				46,54
N2B	3"	RTJ	160	1500#	PREHEAT COIL OUT			VIII	6	0*				46,54
N3A														
N3B														
C1														
C2														
C3														
C4A														
C4B														
C5														
C6A														
C6B														
C7	3/4"	TOL	NPT	6000#	TI			III	10	0*				56
C8A	1/2"	TOL	NPT	6000#	PI			III	10	0*				57
C8B														
C8D														
C9														

- 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.
- * SPECIFIES MIN. REQUIRED DIMENSION, EXCESS OF SPECIFIED DIMENSION IS ACCEPTABLE



REFERENCE DRAWINGS

NUMBER	TITLE	NO.	BY	DATE	ISSUE	CHK'D	APP'D	DISCIPLINE	INITIALS	DATE
ENC-LH-01-01		0	MK	07/04/11	ISSUED FOR REGISTRATION			MECHANICAL		
ENC-LH-01-02		1	MK	07/04/12	ISSUED FOR CONSTRUCTION/ISSUED C&D & CHANGED THE PROTECTIONS & POSITIONS OF NOZZARS			CIVIL/STRUCTURAL		
ENC-LH-01-04										
ENC-LH-01-05								ELECTRICAL		
ENC-LH-01-06								DRAFTING/CHECKED		

REVISIONS

NO.	BY	DATE	ISSUE	CHK'D	APP'D	DISCIPLINE	INITIALS	DATE
0	MK	07/04/11	ISSUED FOR REGISTRATION			MECHANICAL		
1	MK	07/04/12	ISSUED FOR CONSTRUCTION/ISSUED C&D & CHANGED THE PROTECTIONS & POSITIONS OF NOZZARS			CIVIL/STRUCTURAL		

DESIGN DATA

DESIGN CODE: ASME CODE B 31.3 2004 EDITION
 DESIGN PRESSURE: 3125 PSI @ 200F (21546 kPa @ 93C)
 MINIMUM DESIGN METAL TEMPERATURE: -20F @ 3125PSI (-28C @ 21546kPa)
 MAMP: 3125 PSI @ -20/200F (21546 kPa @ -20/93C)
 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 SCH160 (WALL THK=0.438"), 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:U0987.2
 SURFACE PREP (EXT): NONE
 SURFACE PREP (INT): NONE

BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	GRADE
46	2	FLANGE: 3" 1500# ANSI RFWN c/w SCH 160 BORE (N2A/N2B)	SA-105N
47			
48	3	RETURN ELBOW (180): 3" SCH 160 (PREHEAT COIL)	SA-234-WPB
49			
50	1	PIPE: 3" SCH. 160 SMLS x 2973 mm (N2A)	SA-106 GR. B
51	1	PIPE: 3" SCH. 160 SMLS x 2337 mm (PREHEAT COIL)	SA-106 GR. B
52	1	PIPE: 3" SCH. 160 SMLS x 2489 mm (PREHEAT COIL)	SA-106 GR. B
53	1	PIPE: 3" SCH. 160 SMLS x 2973 mm (N2B)	SA-106 GR. B
54			
55			
56	1	TOL: 3/4" CL 6000# (C8A)	SA-105N
57	1	TOL: 1/2" CL 6000# (C8D)	SA-105N
58	1	PLATE 3/8" THK x 349mm x 851mm (COIL SUPPORT PLATE)	SA-106 GR. B
59	1	ANGLE 2" x 2" x 1/4" x 2134mm LG (COIL SUPPORT ANGLE)	SA-106 GR. B
60			

Propipe Manufacturing
 9625 - 144 Avenue
 Grande Prairie, Ab
 PH: (780) 402-3131
 FAX: (780) 402-3130

Propipe Manufacturing
 ENCANA

400.000 BTU LINE HEATER PACKAGE
 3" PREHEAT COIL DETAILS

SCALE	DRAWN	DATE	PROJECT NO.	JOB NO.	DRAWING NO.	REV.
NIS	MK	07/04/10	ENC-MFG-02	ENC-LH-01-03	1	