

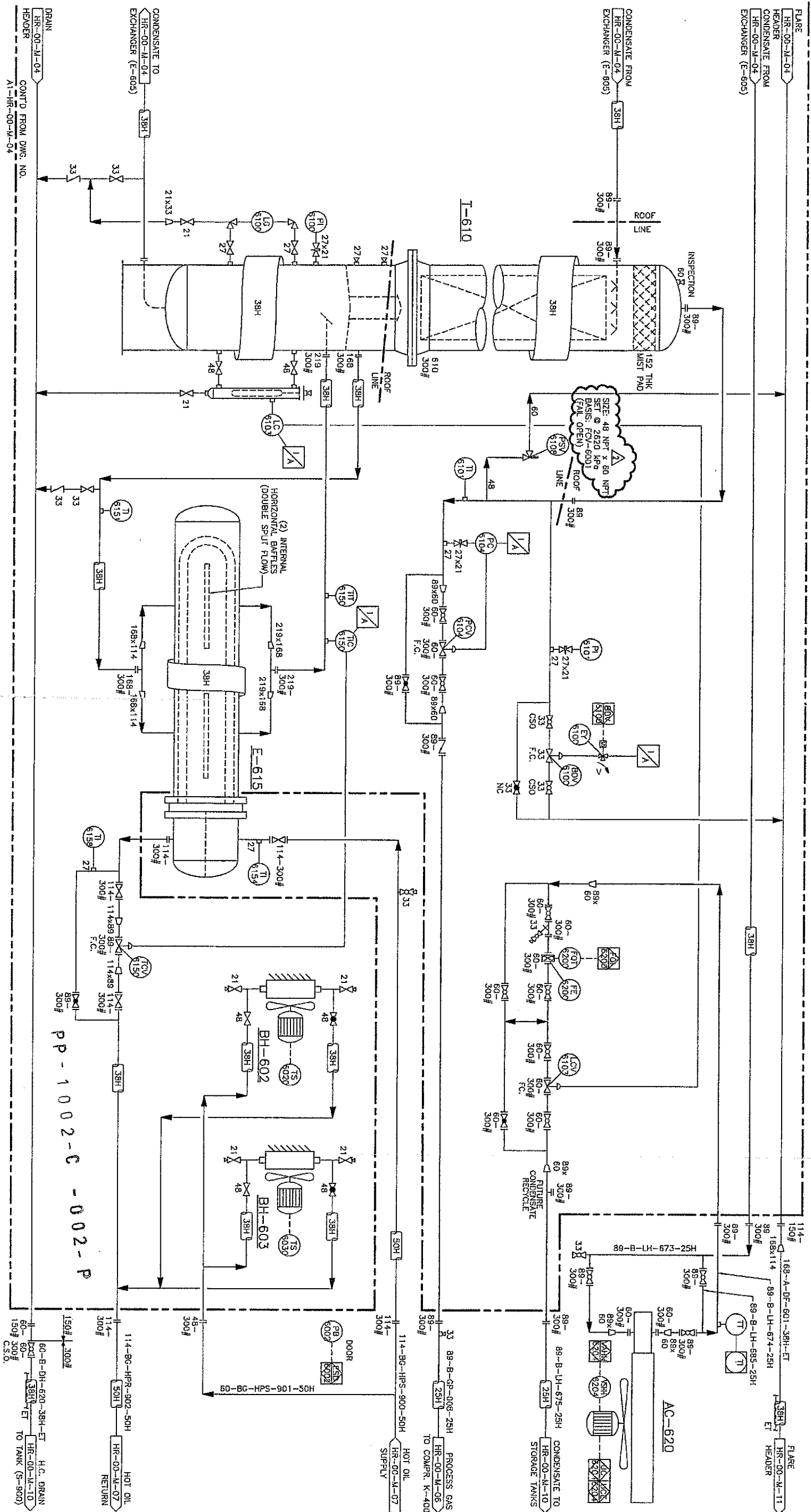
I-610
CONDENSATE STABILIZER TOWER
610mm O.D. x 1066mm S/S
2758 kPaq D.P. @ -29/232°C + 1.6mm C.A.
(1) 6056mm PACKED SECTION (41.5 MINUTERS)
2-PHASE VERTICAL SEPARATOR

E-615
STABILIZER REBOILER
23-188 BNU TEMA C
T.S.: 1034 kPaq D.P. @ -29/232°C + 1.6mm C.A.
S.S.: 2758 kPaq D.P. @ -29/232°C + 1.6mm C.A.
DESIGN DUTY: 2,171,870 BNU/HR.

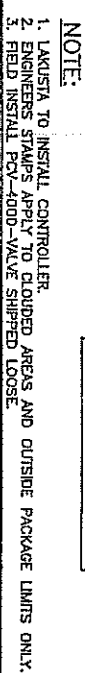
BH-602/603
BUILDING HEATER(S)
(2) RUFINCK HEAT EXCHANGERS
MODEL: AH-20A-ASB1-A1-2A
1/2 HP, 115V/1PH/60HZ
EXPLOSION PROOF
C/W XT-311 THERMOSTAT

AC-620
PRODUCT COOLER
ACE E84-12
HORIZONTAL AERIAL COOLER
2758 kPaq D.P. @ -29/204°C + 1.6mm C.A.
10 HP, 460V/3PH/60HZ, TFC MOTOR, 1800 RPM W/D
DESIGN DUTY: 1,572,000 BNU/HR.

SKID LIMITS



NUMBER	REFERENCE DRAWINGS	NO	REVISION DESCRIPTION	PROJ NO	BY	DATE	CHK	APPD	ENGINEERS & PERMIT STAMPS
2006-7665-SIF-002/002	ALCO CONDENSATE STABILIZATION PACKAGE	A	ISSUED FOR APPROVAL	65037	AA	06.10.24			<div><div></div></div>



NUMBER	REFERENCE DRAWINGS	NO.	REVISION DESCRIPTION	PROJ NO	BY	DATE	CHD	APPD
FS-01	SCS ELECTRIC MOTOR W/CFT PXT-2 [5"/1"] PAID	A	ISSUED FOR APPROVAL	55037	AA	06.10.24		
FS-02	SCS ELECTRIC MOTOR W/CFT PXT-2 [6"/1"] PAID	B	ISSUED FOR BID	65037	PR	06.12.15		
6B05-CRT	AXH AIR-COOLERS MODEL 48M	O	ISSUED FOR CONSTRUCTION	65037	L.C.	07.01.24		
DRAWING LIMITS ARE 725mm x 508mm. DO NOT SCALE								

ENGINEERS & PERMIT STAMPS (NOTE 2)

PERMIT TO PRACTICE
Tundra Engineering Associates Ltd.
[Signature]
Date: 07-01-2009

PERMIT NUMBER P-08750
The Association of Professional Engineers,
Geologists and Geophysicists of Alberta

PROFESSIONAL ENGINEER
IN BRANCH
ALBERTA
No. 8898

Jan 22 2009

TUNDRA

TUNDRA ENGINEERING ASSOCIATES LTD.
CALGARY, ALBERTA

RECYLE COMPRESSOR (K-400)
PIPING AND INSTRUMENTATION DIAGRAM

DRAWN	CHECKED	APPROVED	SCALE	DRAWING NUMBER	REV
AAAREETA	E. WARD	RB	N.T.S.		0

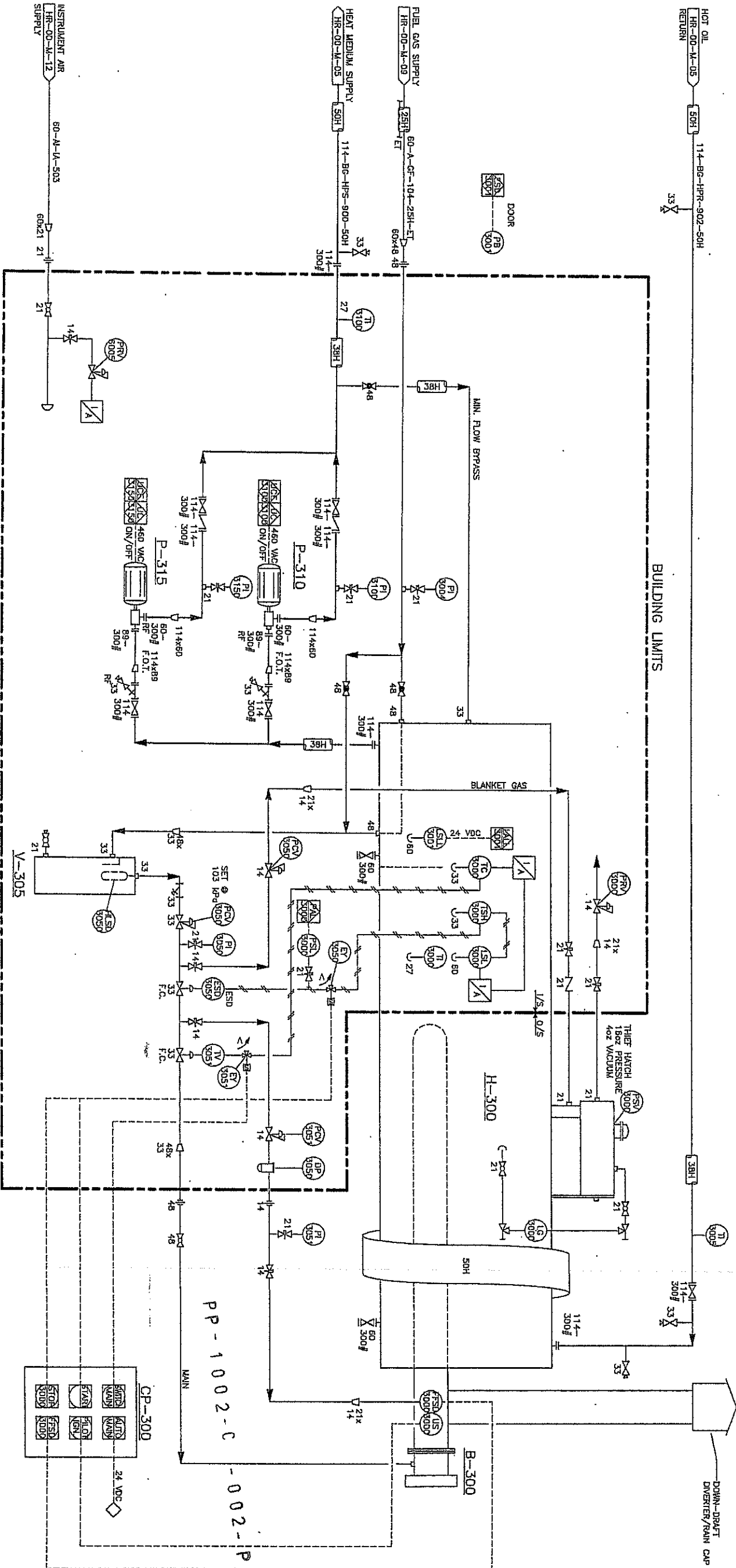
P-310/315
HEAT MEDIUM PUMPS
(2) DEAN CENTRIFUGAL PUMPS
MODEL RA300-60685215
75/174 @ 5720RPM
20 HP 3600 1/2" BORE 1/2" X 1/2" MOTOR
LOHN CRANE TYPE 215
SIC ON CARBON W/ATON ELASTOMERS

V-305
FUEL GAS SCRUBBER
ALCO # C-178
ALCO STANDARD 273mm O.D. x 737mm HIGH
1034HPg D.P. @ 65°C

H-300
DIRECT FIRED HEATER
1524mm O.D. x 10363mm LG
610mm REMOVABLE FRETUBE
610mm x 4572mm LG. HIGH REMOVABLE STACK
610mm x 2438mm LG. EXPANSION TANK
33 FUEL GAS PRE-HEAT COIL

B-300
FLAME ARRESTED GAS BURNER
ZIRCO/ENVARO
3,000,000 (BTU/Hr) BURNER RATING
610mm FIREBOX CONNECTION, PEEP-SITE

CP-300
BURNER CONTROL PANEL
PROFIRE 1100 SPARK GENERATED IGNITOR
24 VDC, CLASS 1, DIV. 2
AUTO RE-LIGHT
BURNER FLAME STATUS



NOTE:
1. ENGINEERS STAMPS APPLY TO CLOUDED AREAS AND OUTSIDE PACKAGE LIMITS ONLY.

NUMBER	REFERENCE DRAWINGS	NO	REVISION DESCRIPTION	PROD NO	BY	DATE	CHD	APPD	ENGINEERS & PERMIT STAMPS (NOTE 1)
D-2005-7568-51F-001	ALCO DIRECT FIRED HEATER PKG. (60'x54'-0" LG. 3800,000 BTU/Hr)	A	ISSUED FOR APPROVAL	65037	AA	06.10.24			
		B	ISSUED FOR BID	65037	DB	06.12.15			
		O	ISSUED FOR CONSTRUCTION	65037	HW	07.01.24			
DRAWING LIMITS ARE 726mm x 508mm. DO NOT SCALE									

PROFESSIONAL ENGINEER REGISTERED IN ALBERTA PERMIT TO PRACTICE Tundra Engineering Associates Ltd. Signature: [Signature] Date: 07-01-24 PERMIT NUMBER: P-08730 The Association of Professional Engineers, Geologists and Geophysicists of Alberta	TUNDRA ENGINEERING ASSOCIATES LTD. CALGARY, ALBERTA	DRAWN CH 06.10.11	CHECKED R.B. 07.01.19	APPROVED R.B. 07.01.22	SCALE N.T.S.	DIRECT FIRED HEATER PACKAGE PIPING AND INSTRUMENTATION DIAGRAM DRAWING NUMBER REV 0
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