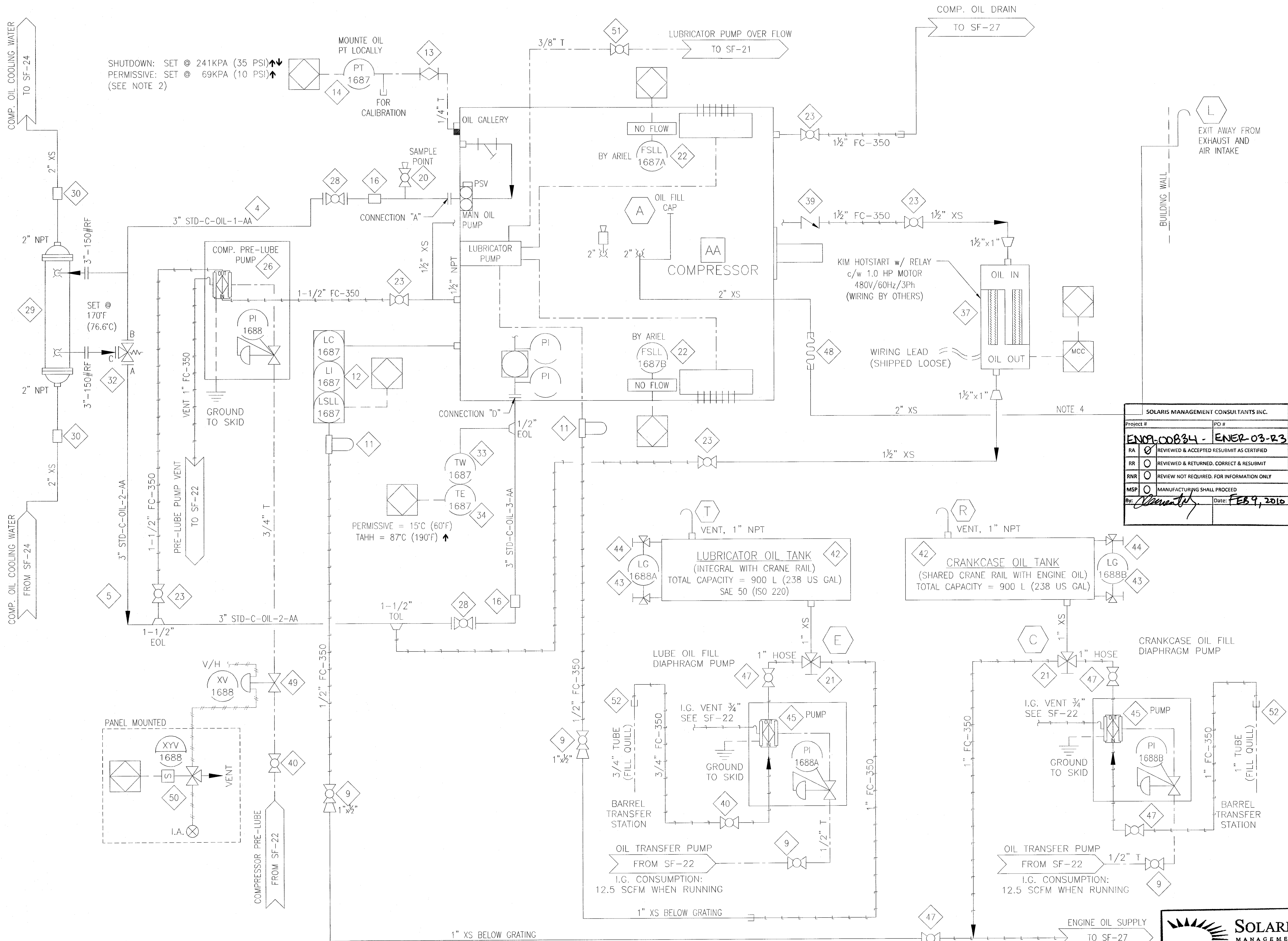


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NOTES:

- VENT CRANKCASE OUTSIDE OF BUILDING FOR SOUR SERVICE.
- RISING PERMISSIVE SETTING IS REQUIRED TO ALLOW CRANKING TO COMMENCE. AFTER CRANKING STARTS COMPRESSOR LUBE OIL PRESSURE MUST REACH 35 PSI RISING WITHIN 10 SECONDS (OR UNIT SHUTDOWN). ONCE COMPRESSOR LUBE OIL PRESSURE HAS EXCEEDED THE 35 PSI RISING SETTING, THE UNIT WILL THEN SHUTDOWN IN THE EVENT OF LUBE OIL PRESSURE DROPPING TO 35 PSI FALLING.
- DISCONNECT EXISTING LUBRICATOR BOX OVER-FLOW TUBING, PLUG FRAME CONNECTION, AND RETUBE OVER-FLOW TO WASTE OIL TANK.
- KEEP VENT LINE AWAY FROM ENGINE TURBOS.
- SPOOLING USES THE REQUIREMENTS OF ENERFLEX PIPE SPECIFICATIONS 150SF3.

FRAME	JGU/6
FRAME CRANKCASE VOLUME	405 L
OIL FLOWRATE	8.5 L/s
CONNECTION "A" (CAST IRON)	3"-125# FF
CONNECTION "D"	3"-150# FF

BILL OF MATERIAL

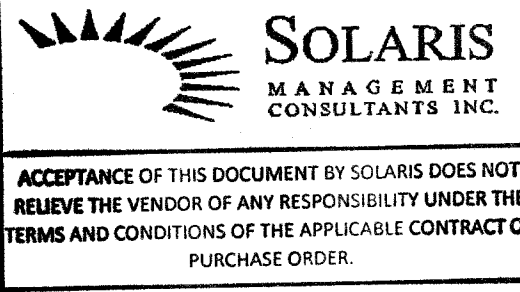
ITEM	QTY	PART #	DESCRIPTION
4	1	134931*	SPOOL, FROM OIL PUMP TO OIL COOLER & T-STAT, ARIEL JGU/6, WAUKESHA 16V-275GL
5	1	134932*	SPOOL, FROM OIL COOLER TO T-STAT & OIL FILTER, ARIEL JGU/6, WAUKESHA 16V-275GL
9	4	102949	(S) VALVE, BALL, 1/2" NPT, 2000# WOG, RP, 316SS, NACE C/W [NAVCO, C1-R05S20A]
11	2	121735	(S) FILTER, ASSEMBLY OIL 1/2" NPT 25 MICRON C/W SF-6510-25 [STAUFF, SAF-05-00-0]
12	1	127971	CONTROLLER, OIL LEVEL C/W ELECTRIC SWITCH, XP, CSA [KENCO, KLCE-25]
13	1	102802	(S) VALVE, PLUG, 1/4" TUBE, 316SS, NUPRO [SWAGelok, SS-4P4T]
14	1	NPN	>>TRANSMITTER, PRESS., 0-100 PSIG, [ROSEMOUNT, 3051S2TG2A2E11A1AB4K6] W/ INSTR. RACK
16	2	101235	(S) COUPLING, STRAIGHT, 3", STYLE 38 [DRESSER, 0038-0187-011]
20	1	102950	(S) VALVE, BALL, 1/4" NPT, 2000# WOG, RP, 316SS, NACE C/W [NAVCO, C1-R02S20A]
21	2	120116	(S) VALVE, BALL, 3-WAY, 1" NPT, FULL SS, 800 PSI [APOLLO, 76-605-01]
22	2	NPN	>>SWITCH, FORCE FEED, DNFT, STANDARD, WHITLOCK DNFT-LED-PS, ATEX [ARIEL, A-10753]
23	5	102933	(S) VALVE, BALL, 1-1/2" NPT, 2000# WOG, RP, 316SS, NACE C/W [NAVCO, C1-R15S20A]
26	1	119929	PUMP, DIAPHRAGM, 1-1/2" NPT, ALUM, GAS, REG/PI [WARREN RUPP, G15B1ATTXNSX00]
28	2	102963	VALVE, BALL, 3" 150# RF, RP, CS C/W HANDLE [NUTRON, T3-R30R01B]
29	1	122384	>>COOLER, LUBE OIL, FIXED HEAD, UNMOUNTED, MODEL EC-1754-95090 [ARICOR, B-2263]
30	2	101245	(S) COUPLING, STRAIGHT, 2", STYLE 90 [DRESSER, 0090-0005-082]
32	1	122361	>>VALVE, THERMOSTATIC, LUBE OIL, FPE, 3" 150# ANSI, MOUNTED [JGU-Z/4:6] [ARIEL]
33	1	105165	T'WELL, 316SS, BTB STYLE 4, 1/4" X 1/2", U=2", .147" BORE, STRAIGHT
34	1	113106	THERMOCOUPLE, K TYPE, 316SS C/W [THERMOKINETICS, K125-316S-0006-B-82S-000-0018S]
37	1	128931	HEATER, CIRCULATION, LUBE OIL, 6 KW, 480V, CSA, RELAY [KIM HOTSTART, OER30604-8B1]
39	1	112174	VALVE, CHECK, SWING, 1-1/2" NPT, 800# WOG, CS [NEWCO, 38T-FS2]
40	2	102973	(S) VALVE, BALL, 3/4" NPT, 2000# WOG, RP, 316SS, NACE C/W [NAVCO, C1-R07S20A]
42	1	NPN	>>TANK, INTEGRAL WITH CRANE RAILS, AS PER MC DRAWING
43	2	101257	(C) GAUGE, ACRYLIC SIGHT GLASS, 5/8" OD X 3/8" ID, 1/4" WALL THK (LENGTH CUT TO SUIT)
44	2	103698	(S) VALVE, SET GAUGE SWEET 5/8"OD X 1/2"MNPT CS 600# QUEST-TEC [DANIEL, 1TC]
45	2	119927C	PUMP, DIAPHRAGM, LEVEL III ASSEMBLY, 1"NPT, ALUM, SOUR, CSA, [WARREN RUPP, G1F]
47	4	102937	(S) VALVE, BALL 1" NPT 2000# WOG RP 316SS NACE C/W LOCKING [NAVCO, C1-R10S20A]
48	1	127993	HOSE, BRAIDED STEEL, SINGLE, 2" MNPT X FNPT UNION X 12" LONG, CGA, CSA [SENFLE]
49	1	120270	VALVE, CONTROL, 1" NPT, WCB, 9/16" OR, 5-35 PSI, ON/OFF [FISHER, 119-N12]
50	1	NPN	>> VALVE, SOLENOID, 3-WAY, ASCO, INCL. W/ INSTRUMENT RACK
51	1	120928	(S) VALVE, BALL 3/8" NPT 2000# WOG FP 316SS NACE 2 PIECE [NAVCO, C1-R03S20A]
52	2	127639	(S) BRACKET, CLIP FOR BARREL TRANSFER STATION, A & B-SERIES

GENERAL NOTES:

- * DRAWINGS TO BE RELEASED FOR FABRICATION.
** ASSEMBLY BOM TO BE ADDED TO THE JOB WORK ORDER.
*** SUPPLIED BY VENDOR.
- THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS STAMPED "RELEASED FOR MANUFACTURE".
- DO NOT SCALE THIS DRAWING.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

REV	DESCRIPTION	DATE	DRAWN BY	CHECKED BY
0	ISSUED FOR CONSTRUCTION	10/01/22	NH	RVJ
B	RE-ISSUE FOR APPROVAL	09/12/02	NH	RVJ
A	ISSUED FOR APPROVAL	09/11/16	NH	RVJ

REV	DESCRIPTION	DATE	DRAWN BY	CHECKED BY
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ACCEPTANCE OF THIS DOCUMENT BY SOLARIS DOES NOT RELIEVE THE VENDOR OF ANY RESPONSIBILITY UNDER THE TERMS AND CONDITIONS OF THE APPLICABLE CONTRACT OR PURCHASE ORDER.



4700 47 Street SE Calgary AB Canada T2B 3R1 Canada Tel. +1.403.236.8000 Fax +1.403.279.0367
www.enerflex.com

TITLE: SERVICE FLOW - COMPRESSOR OIL SYSTEM
ARIEL JGU/6, WAUKESHA 16V-275GL, AIR-X 144-2Z (QTY x 3)
1/2 STAGES SOUR RECIPROCATING COMPRESSOR PACKAGE

FOR: ENCAN OIL & GAS PARTNERSHIP
(HORN RIVER, B.C.)

CONSULTANT: SOLARIS INC.
P.O.: CED-36628 (K-101-D)

DRWN BY: NH
DATE: 09/11/10
SCALE: NTS

LSO: C-67-K / 94-0-8
JOB No.: 090600

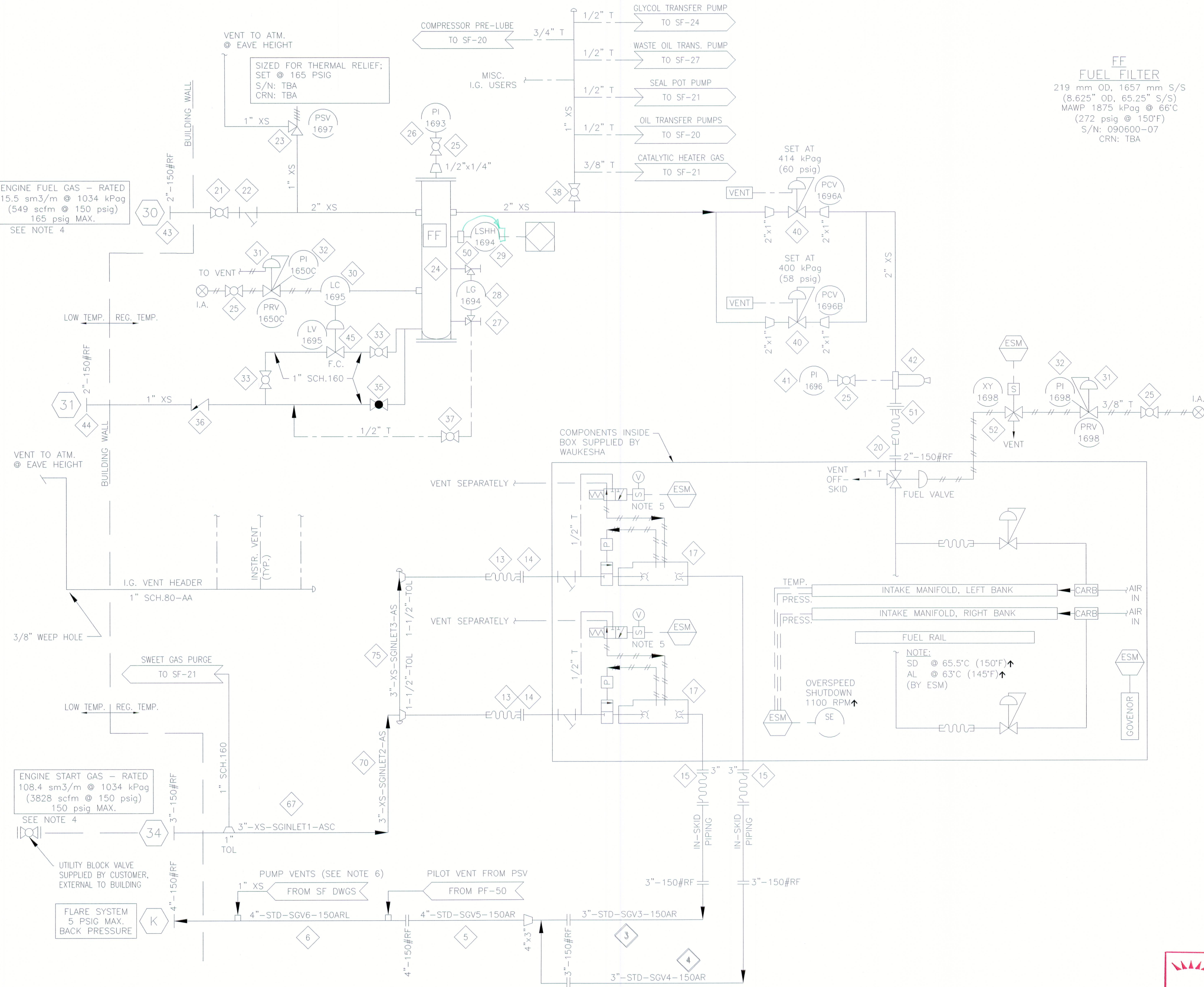
DESIGN BY: NH
CHKD BY: RVJ
APPVD BY:

DATE: 09/11/10
DATE:
DATE:

DWG. No.
SF-090600-20

OP#
20

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- NOTES:
- INSTRUMENTS USING INSTRUMENT GAS MUST BE VENTED TO INSTRUMENT GAS VENT HEADER.
 - ALL SERVICE LINES OPERATING ABOVE 103KPA(15 PSI) MUST BE PRESSURE TESTED PER THE PROCEDURE IN THE QC MANUAL.
 - MANIFOLD BOOST PRESSURE TO BE SET ONCE SITE CONDITIONS ARE DETERMINED.
 - CLEAN DRY GAS REQUIRED FOR BOTH FUEL AND START GAS.
 - SURGE SUPPRESSION DIODES TO BE INSTALLED ACROSS SOLENOID WIRING (STRIPE ON DIODE TO BE POLARITY POSITIVE).
 - FOR ESM CONTROLLED SOLENOIDS, INSTALL DIODE AT ESM POWER JUNCTION BOX.
 - FOR CONTROL PANEL CONTROLLED SOLENOIDS, INSTALL DIODE IN CONTROL PANEL.
 - ALL DIAPHRAGM PUMPS ARE VENTED TO THE START GAS VENT LINE, INCLUDING COMPRESSOR PRELUBE AND OIL TRANSFER PUMPS (SF-20), SEAL POT PUMP (SF-21), GLYCOL TRANSFER PUMP (SF-24), AND THE ENGINE AND WASTE OIL TRANSFER PUMPS (SF-27).
 - SPOOLING FOR START GAS LINES USES ENCANAL PIPE SPECIFICATIONS AS/ASC; SPOOLING FOR START GAS VENT LINES USES ENERFLEX PIPE SPECIFICATION 150AR/150ARL.

FF
FUEL FILTER
219 mm OD, 1657 mm S/S
(8.625\"/>

BILL OF MATERIAL			
ITEM	QTY	PART #	DESCRIPTION
3	1	135211*	SPOOL, START GAS EXHAUST #1, FROM IN-SKID PIPE TO FROM START GAS EXHAUST #2, WAUKESHA 16V-275GL
4	1	135212*	SPOOL, START GAS EXHAUST #2, FROM START GAS EXHAUST #1 TO START GAS EXHAUST #3, WAUKESHA 16V-275GL
5	1	135213*	SPOOL, START GAS EXHAUST #3, FROM START GAS EXHAUST #2 TO START GAS EXHAUST #4, WAUKESHA 16V-275GL
6	1	135214*	SPOOL, START GAS EXHAUST #4, FROM START GAS EXHAUST #3 TO SKID EDGE, WAUKESHA 16V-275GL
13	2	135187	HOSE, BRAIDED STEEL, SINGLE, 1-1/2\"/>
14	2	106462	(S) FLANGE, RF THD, 1-1/2\"/>
15	2	135280	HOSE, BRAIDED STEEL, DOUBLE, 3\"/>
17	2	NPN	>>STARTER, AIR/GAS, STD 150-60 PSIG, PRE-ENGAGED [TDI], SUPPLIED WITH ENGINE
20	1	106487	(S) FLANGE, RF THD, 2\"/>
21	1	102951	(S) VALVE, BALL 2\"/>
22	1	102386	STRAINER, Y, 2\"/>
23	1	131888	**VALVE, PSV 1\"/>
24	1	NPN	>>VESSEL, VERTICAL, 8-5/8\"/>
25	4	102950	(S) VALVE, BALL, 1/4\"/>
26	1	107911	(S) GAUGE, PRESSURE, BM, 2-1/2\"/>
27	1	103696	(S) VALVE, SET GAUGE NACE 1/2\"/>
28	1	120416	GAUGE, LEVEL, CS WITH REFLEX FLAT GLASS, 2800# QUEST-TEC [DANIEL, 11RM]
29	1	104500	SWITCH, LEVEL, 2\"/>
30	1	104502	CONTROLLER, LEVEL, 2\"/>
31	2	104872	(S) REGULATOR, 1/4\"/>
32	2	107894	(S) GAUGE, PRESSURE, CBM, 2\"/>
33	2	102937	(S) VALVE, BALL 1\"/>
35	1	102876	VALVE, GLOBE, 1\"/>
36	1	103069	VALVE, CHECK, PISTON, 1\"/>
37	1	102949	(S) VALVE, BALL, 1/2\"/>
38	1	114146	VALVE, BALL, 1\"/>
40	2	115599	**REGULATOR, 1\"/>
41	1	107878	(S) GAUGE, PRESSURE, BM, 2-1/2\"/>
42	1	123217	FILTER, FUEL, 2\"/>
43	1	106489	FLANGE, RF THD, 2\"/>
44	1	119259	FLANGE, RF RED HUB, 2\"/>
45	1	104854	VALVE, CONTROL, 1\"/>
50	1	NPN-REQ	LEVEL SWITCH SECONDARY SEAL [DYNA-FLO, 6DR500X004D-14G]
51	1	129007	HOSE, BRAIDED STEEL, 2\"/>
52	1	104789	(S) VALVE,SOLENOID,3-WAY,24VDC,CSA, XP, EPNC 115PSI,NC SS [ASCO, EF8320G202-24]
67	1	135244*	SPOOL, START GAS INLET, PART 1 OF 3 WAUKESHA 16V-275GL
70	1	135245*	SPOOL, START GAS INLET, PART 2 OF 3 WAUKESHA 16V-275GL
75	1	135246*	SPOOL, START GAS INLET, PART 3 OF 3 WAUKESHA 16V-275GL

- GENERAL NOTES:
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 - *** SUPPLIED BY VENDOR.
 - THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS STAMPED "RELEASED FOR MANUFACTURE".
 - DO NOT SCALE THIS DRAWING.
 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

REV	DESCRIPTION	DATE	DRAWN BY	CHECKED BY
0	ISSUE FOR CONSTRUCTION	10/01/22	NH	RVJ
B	RE-ISSUE FOR APPROVAL	09/12/02	NH	RVJ
A	ISSUED FOR APPROVAL	09/11/16	NH	RVJ

ENERFLEX

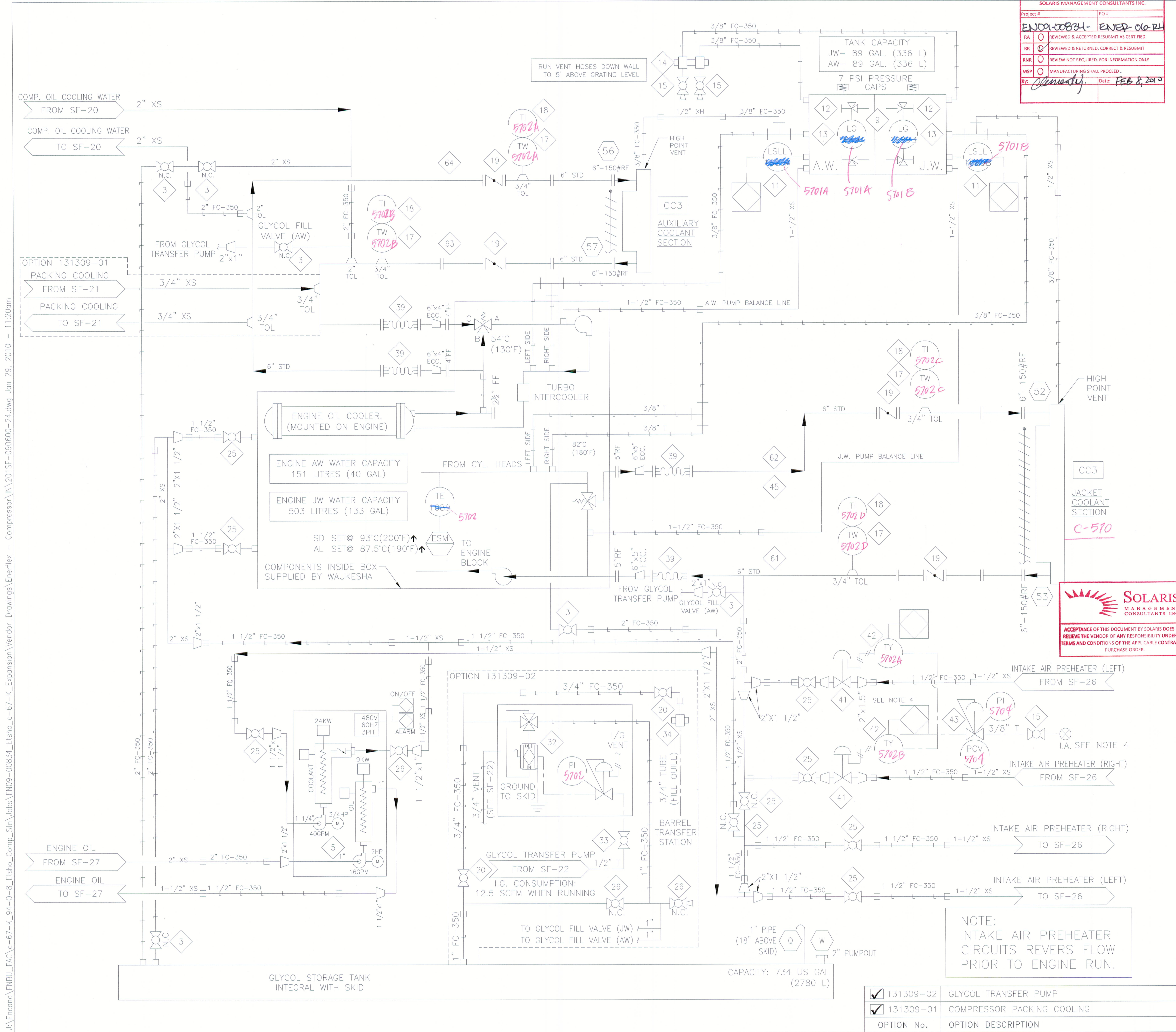
4700 47 Street SE Calgary AB Canada T2B 3R1 Canada Tel. +1.403.236.6800 Fax +1.403.279.0367
www.enerflex.com

TITLE: SERVICE FLOW - FUEL AND START GAS SYSTEM ARIEL JGU/6, WAUKESHA 16V-275GL, AIR-X 144-2Z (QTY x 3) 1/2 STAGES SOUR RECIPROCATING COMPRESSOR PACKAGE				
FOR: ENCANAL OIL & GAS PARTNERSHIP (HORN RIVER, B.C)				
CONSULTANT: SOLARIS INC. LSD: C-67-K / 94-0-8 P.O.: CED-36628 (K-101-D) JOB No.: 090600				
DRWN BY: NH	DESIGN BY: NH	DATE: 09/11/10	DWG. No.	OP#
DATE: 09/11/10	CHKD BY: RVJ	DATE:	SF-090600-22	22
SCALE: NTS	APPVD BY:	DATE:		



SOLARIS MANAGEMENT CONSULTANTS INC.	
PROJECT #	PO #
EN09-00834-ENEL-05-R3	
RA	REVIEWED & ACCEPTED RESUBMIT AS CERTIFIED
RR	REVIEWED & RETURNED, CORRECT & RESUBMIT
RNR	REVIEW NOT REQUIRED, FOR INFORMATION ONLY
MSP	MANUFACTURING SHALL PROCEED
By: Clement	Date: Feb 9, 2010

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SOLARIS MANAGEMENT CONSULTANTS INC.	
Project #	FO #
EN09-00834-ENED-010-24	
RA	☐ REVIEWED & ACCEPTED RESUBMIT AS CERTIFIED
RR	☐ REVIEWED & RETURNED, CORRECT & RESUBMIT
RNA	☐ REVIEW NOT REQUIRED, FOR INFORMATION ONLY
MSP	☐ MANUFACTURING SHALL PROCEED.
By: <i>Chenestey</i>	Date: FEB 8, 2010

BILL OF MATERIAL

ITEM	QTY	PART #	DESCRIPTION
3	2	102951	(S) VALVE, BALL 2" NPT 2000# WOG RP 316SS NACE C/W LOCKING [NAVCO, C1-R20S20A]
17	2	107979	THERMOWELL, 304SS, 1/2" X 3/4" NPTM X 6" LONG, U=4", .260" BORE C/W 1/2" LAG
18	2	107944	GAUGE, TEMP, 3" DIAL LF, 6" STEM, 0-250 DEG.F DUAL, 1/2" NPT [TREND, SF30060]
19	2	116800	VALVE, BUTTERFLY, 6" WAFER STYLE, 200 PSI [KITZ, 5122BL]
25	2	102933	(S) VALVE, BALL, 1-1/2" NPT, 2000# WOG, RP, 316SS, NACE C/W [NAVCO, C1-R15S20A]
39	2	119976	EXPANSION JOINT, RUBBER, 6" X 150# RF [HYDROFLEX, SERIES 240AV/EE]
45	1	135239*	SUPPORT, EXHAUST, JW & AW LINES, WAUKESHA 16V-275GL
61	1	135133*	SPOOL, FROM COOLER/SKID EDGE TO ENGINE JACKET WATER INLET, WAUKESHA 16V-275GL
62	1	135132*	SPOOL, FROM ENGINE JACKET WATER OUTLET TO COOLER/SKID EDGE, WAUKESHA 16V-275GL
3	3	102951	(S) VALVE, BALL 2" NPT 2000# WOG RP 316SS NACE C/W LOCKING [NAVCO, C1-R20S20A]
17	2	107979	THERMOWELL, 304SS, 1/2" X 3/4" NPTM X 6" LONG, U=4", .260" BORE C/W 1/2" LAG
18	2	107944	GAUGE, TEMP, 3" DIAL LF, 6" STEM, 0-250 DEG.F DUAL, 1/2" NPT [TREND, SF30060]
19	2	116800	VALVE, BUTTERFLY, 6" WAFER STYLE, 200 PSI [KITZ, 5122BL]
39	2	119976	EXPANSION JOINT, RUBBER, 6" X 150# RF [HYDROFLEX, SERIES 240AV/EE]
63	1	135130*	SPOOL, FROM COOLER/SKID EDGE TO ENGINE AUXILIARY WATER INLET, WAUKESHA 16V-275GL
64	1	135131*	SPOOL, FROM ENGINE AUXILIARY WATER OUTLET TO COOLER/SKID EDGE, WAUKESHA 16V-275GL
9	1	110465*	TANK, SURGE, 2-COMPARTMENT, 336/336L, CAT G3616
11	2	104507	SWITCH, LEVEL, 1-1/2" NPT, XP, CSA, 316SS BODY, SOUR C/W SS [MURPHY, L1100SSSF]
12	2	103698	(S) VALVE, SET GAUGE SWEET 5/8"OD X 1/2"MNPT CS 600# QUEST-TEC [DANIEL, 1TC]
13	2	101257	(C) GAUGE, ACRYLIC SIGHT GLASS, 5/8" OD X 3/8" ID, 1/4" WALL THK (72" LENGTHS)
14	1	123319*	(S) SUPPORT SURGE TANK VENT VALVE, A1478
15	2	120928	(S) VALVE, BALL 3/8" NPT 2000# WOG FP 316SS NACE 2 PIECE [NAVCO, C1-R03S20A]
25	7	102933	(S) VALVE, BALL, 1-1/2" NPT, 2000# WOG, RP, 316SS, NACE C/W [NAVCO, C1-R15S20A]
26	1	102937	(S) VALVE, BALL 1" NPT 2000# WOG RP 316SS NACE C/W LOCKING [NAVCO, C1-R10S20A]
41	2	100645	VALVE, CONTROL, 2" NPT, LCC, 1-1/4" OR, FC, 0-33 PSI [FISHER, D4-X2A1N]
3	1	102951	(S) VALVE, BALL 2" NPT 2000# WOG RP 316SS NACE C/W LOCKING [NAVCO, C1-R20S20A]
5	1	129004	HEATER, CIRCULATION, OIL & COOLANT CSA,RELAY [KIM HOTSTART, COLER3240/0904-08C1]
15	1	120928	(S) VALVE, BALL 3/8" NPT 2000# WOG FP 316SS NACE 2 PIECE [NAVCO, C1-R03S20A]
42	2	130726	TRANSDUCER,I/P,4-20MA INPUT,6-30# OUTPUT,CSA CL1 D2, NI [BELLOFRAM, 967-040-000]
43	1	130727	REGULATOR, 1/4" NPT, ALUMINUM, 0-30# TAPPED C/W PI (LF) [BELLOFRAM, 962-275-000]
OPTION : 131309-02			
20	2	102973	(S) VALVE, BALL, 3/4" NPT, 2000# WOG, RP, 316SS, NACE C/W [NAVCO, C1-R07S20A]
26	2	102937	(S) VALVE, BALL 1" NPT 2000# WOG RP 316SS NACE C/W LOCKING [NAVCO, C1-R10S20A]
32	1	127942	PUMP, DIAPHRAGM, GTP LEVEL III ASSY, 1"NPT,ALUM, SOUR GAS,CSA [WARREN RUPP, G1F]
33	1	102949	(S) VALVE, BALL, 1/2" NPT, 2000# WOG, RP, 316SS, NACE C/W [NAVCO, C1-R05S20A]
34	1	127639*	(S) BRACKET, CLIP FOR BARREL TRANSFER STATION, A & B-SERIES

- NOTES:
1. CONFIRM OPERATING TEMPERATURES.
 2. GLYCOL 50% AND WATER 50% SOLUTION REQUIRED.
 3. RUN BALANCE AND VENT LINES WITH NO AIR TRAPS.
 4. INSTRUMENT AIR REQUIRED FOR PROPER OPERATION OF REGULATOR AND I/P. IF INSTRUMENT GAS IS USED, REGULATOR AND I/Ps MUST BE REPLACED WITH SUITABLE ALTERNATES.

- GENERAL NOTES:
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 - ** ASSEMBLY BOM TO BE ADDED TO THE JOB WORK ORDER.
 - *** SUPPLIED BY VENDOR.
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REV	DESCRIPTION	DATE	DRAWN BY	CHECKED BY
0	ISSUE FOR CONSTRUCTION	10/01/27	NH	RVJ
B	RE-ISSUE FOR APPROVAL	09/12/02	NH	RVJ
A	ISSUE FOR APPROVAL	09/11/16	NH	RVJ

ENERFLEX

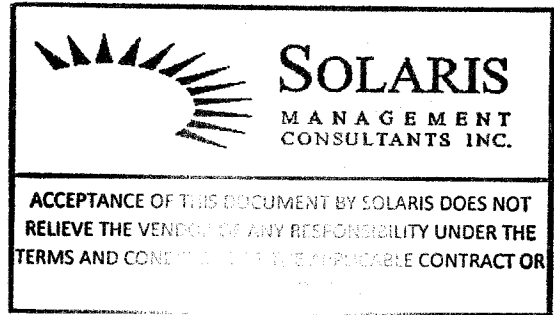
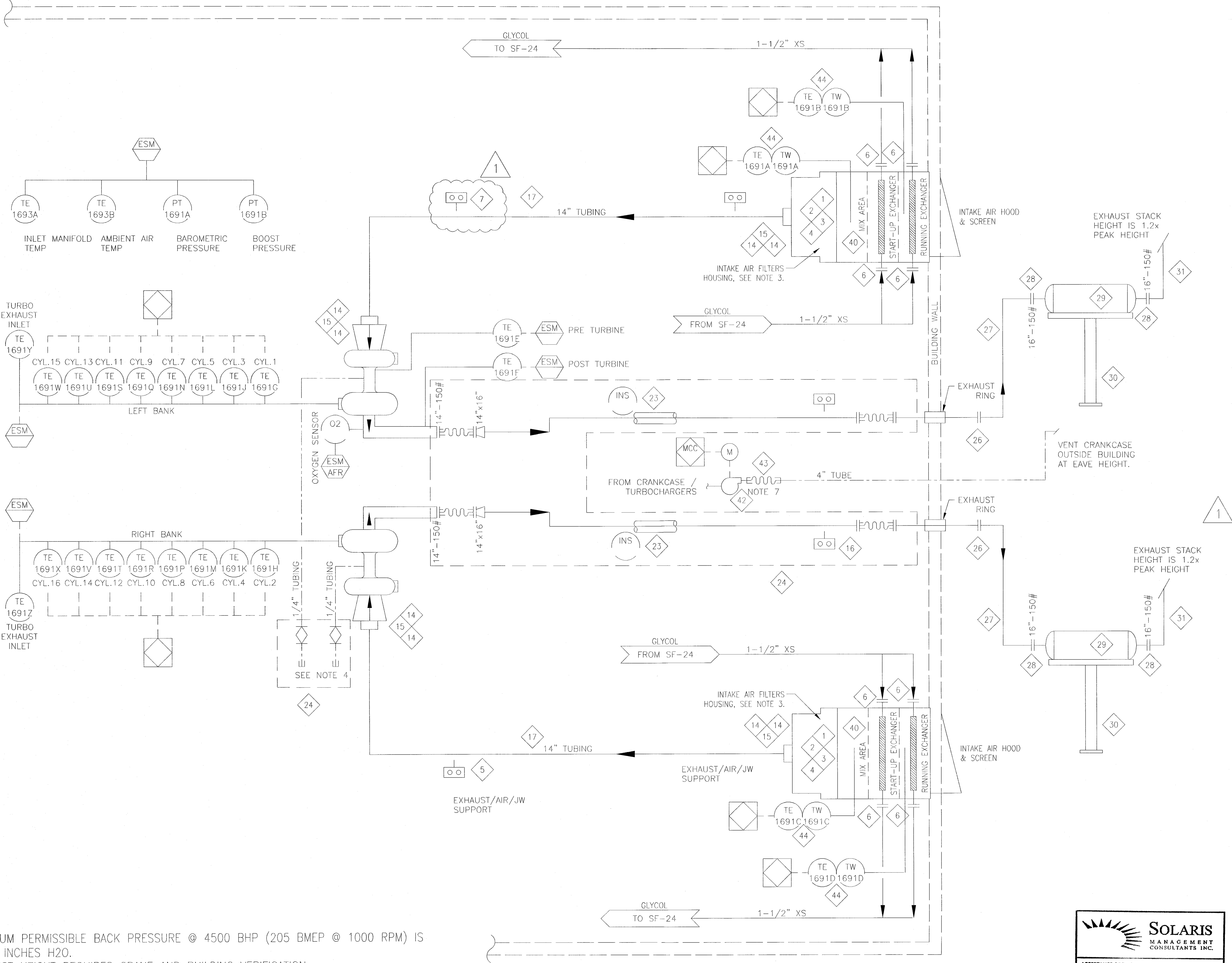
4700 47 Street SE Calgary AB Canada T2B 3R1 Canada Tel. +1.403.236.6800 Fax +1.403.279.0367
www.enerflex.com

TITLE: SERVICE FLOW - ENGINE GLYCOL SYSTEM ARIEL JGU/6, WAUKESHA 16V-275GL, AIR-X 144-2Z (QTY x 3) 1/2 STAGES SOUR RECIPROCATING COMPRESSOR PACKAGE				
FOR: ENCANA OIL & GAS PARTNERSHIP (HORN RIVER, B.C.)				
CONSULTANT: SOLARIS INC. LSD: C-67-K / 94-0-8 P.O.: CED-36628 (K-101-D) JOB No.: 090600				
DRWN BY: ZQS DATE: 09/10/27 SCALE: NTS	DESIGN BY: CHKD BY: APPRD BY:	DATE: DATE: DATE:	DWG. No. SF-090600-24	OP# 24

J:\Encana\FINBU_FAC\c-67-K-94-0-8_Etsho_Comp_Stn\Jobs\EN09-00834_Etsho_c-67-K-Expansion\Vendor_Drawings\Enerflex - Compressor\N 201SF-090600-26.dwg Jan 27, 2010 - 3:25pm

NOTES:

1. MAXIMUM PERMISSIBLE BACK PRESSURE @ 4500 BHP (205 BMEP @ 1000 RPM) IS 20.00 INCHES H2O.
2. EXHAUST HEIGHT REQUIRES CRANE AND BUILDING VERIFICATION.
3. MODIFY FILTER BOX TO ALLOW FILTER ACCESS FROM TOP; 3 PRE-FILTERS (WAUKESHA 209365) AND 3 FILTERS (WAUKESHA 209364).
4. MOUNT SAMPLE POINT VALVES 5 ft. ABOVE GRATING, BOTH ON SAME SIDE OF ENGINE.
5. AIR INTAKE HEATER DESIGN COMPLETED AS SHOWN; HEATER TO OPERATE VIA KIM HOTSTART/EJW. DETAILS SHOWN ON SF-24 AND SF-26.
6. THREADED SPOOLING FOR GLYCOL LINES CONSTRUCTED IN ACCORDANCE WITH ENCANA PIPE SPECIFICATION AS.
7. HOSE LENGTH SHOULD BE APPROX. 12".



SOLARIS MANAGEMENT CONSULTANTS INC.	
Project #	PO #
EN09-00834	ENER-07-23
RA	☒ REVIEWED & ACCEPTED RESUBMIT AS CERTIFIED
RR	☐ REVIEWED & RETURNED, CORRECT & RESUBMIT
RNR	☐ REVIEW NOT REQUIRED, FOR INFORMATION ONLY
MSP	☐ MANUFACTURING SHALL PROCEED
By:	Date: FEB 9, 2010

BILL OF MATERIAL

ITEM	QTY	EFX CODE	DESCRIPTION
14	16	117969	CLAMP, HOSE, BRIDGE, HD, 14" ID [RED-L, BAND-CLAMP-14"]
15	4	127372	HOSE, THERMOPLASTIC, 14" ID, PRICE PER FT [RED-L, SF-TPR-224]
16	1	135239*	SUPPORT, EXHAUST, JW & AW LINES, WAUKESHA 16V275GL
17	2	134916*	ENGINE AIR INTAKE LINE, WAUKESHA 16V-AT27GL
23	2	127282	**INSULATION, FOR 16" 150# SS EXHAUST LINE NO AIR SPACE CUSTOM
24	1	131322*	ASSEMBLY, ENGINE EXHAUST MOUNT (TO SKID EDGE)
26	2	131786	GASKET, EXHAUST THERMICULITE 715 1/16"THK 16" 150#FF INTERNAL STYLE, 850F
27	2	NPN	>>EXHAUST LINE, CS, 16", FLANGED, EXTERIOR, AS PER MC-090600-K
28	4	131785	GASKET, EXHAUST THERMICULITE 715 1/16"THK 16" 150#FF EXTERNAL STYLE, 850F
29	2	104734B	MUFFLER, HOSPITAL GR, 16" 150# END IN/OUT C/W LIFTING [SILEX, JDDT-16-ST-L-C-B]
30	2	NPN	>>SUPPORT, MUFFLER STAND, AS PER MC-090600-J
31	2	NPN	>>EXHAUST STACK, CD, 16" OD, AS PER MC-090600-K
40	2	130732	PREHEATER, AIR, INDUCED DRAFT, 2.4 X 6 X 2RI, 25 GPM, 663.1FT AREA [CALHEX]
42	1	NPN	BLOWER, SUPPLIED BY WAUKESHA WITH ENGINE
43	1	104031	HOSE, RADIATOR, 4" ID X 3 FT LONG [SILICONE, 5515-400]
44	4	NPN	T'COUPLE ASSY, K TYPE [JMS, 1K1BKU13.5SP2ZZI] c/w TW 3/4" NPT, U=12", 316SS
1	2	134919*	ENGINE AIR FILTER TRANSITION MATING PLATE, WAUKESHA 16V-AT27GL
2	2	134917*	ENGINE AIR FILTER HOUSING, OPTION 2300A, WAUKESHA 16V-AT27GL
3	2	134918*	ENGINE AIR INTAKE TRANSITION PIECE
4	2	135241*	FLANGE CRABBER PLATE, 16" INTERNAL
5	1	134920*	SUPPORT, ENGINE AIR FILTER AND PREHEATER, SOUTH SIDE
6	8	106462	(S) FLANGE, RF THD, 1-1/2" 150# SA105N
7	1	135362*	SUPPORT, ENGINE AIR FILTER AND PREHEATER, NORTH SIDE

GENERAL NOTES:

1. * DRAWINGS TO BE RELEASED FOR FABRICATION.
** ASSEMBLY BOM TO BE ADDED TO THE JOB WORK ORDER.
*** SUPPLIED BY VENDOR.
2. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS STAMPED "RELEASED FOR MANUFACTURE".
3. DO NOT SCALE THIS DRAWING.
4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

0	ISSUED FOR CONSTRUCTION	10/01/22	NH	RJV
B	RE-ISSUE FOR APPROVAL	09/12/02	NH	RJV
A	ISSUED FOR APPROVAL	09/11/16	NH	RJV

REV	DESCRIPTION	DATE	DRAWN BY	CHECKED BY
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ENERFLEX

4700 47 Street SE Calgary AB Canada T2B 3R1 Canada Tel. +1.403.236.6800 Fax +1.403.279.0367
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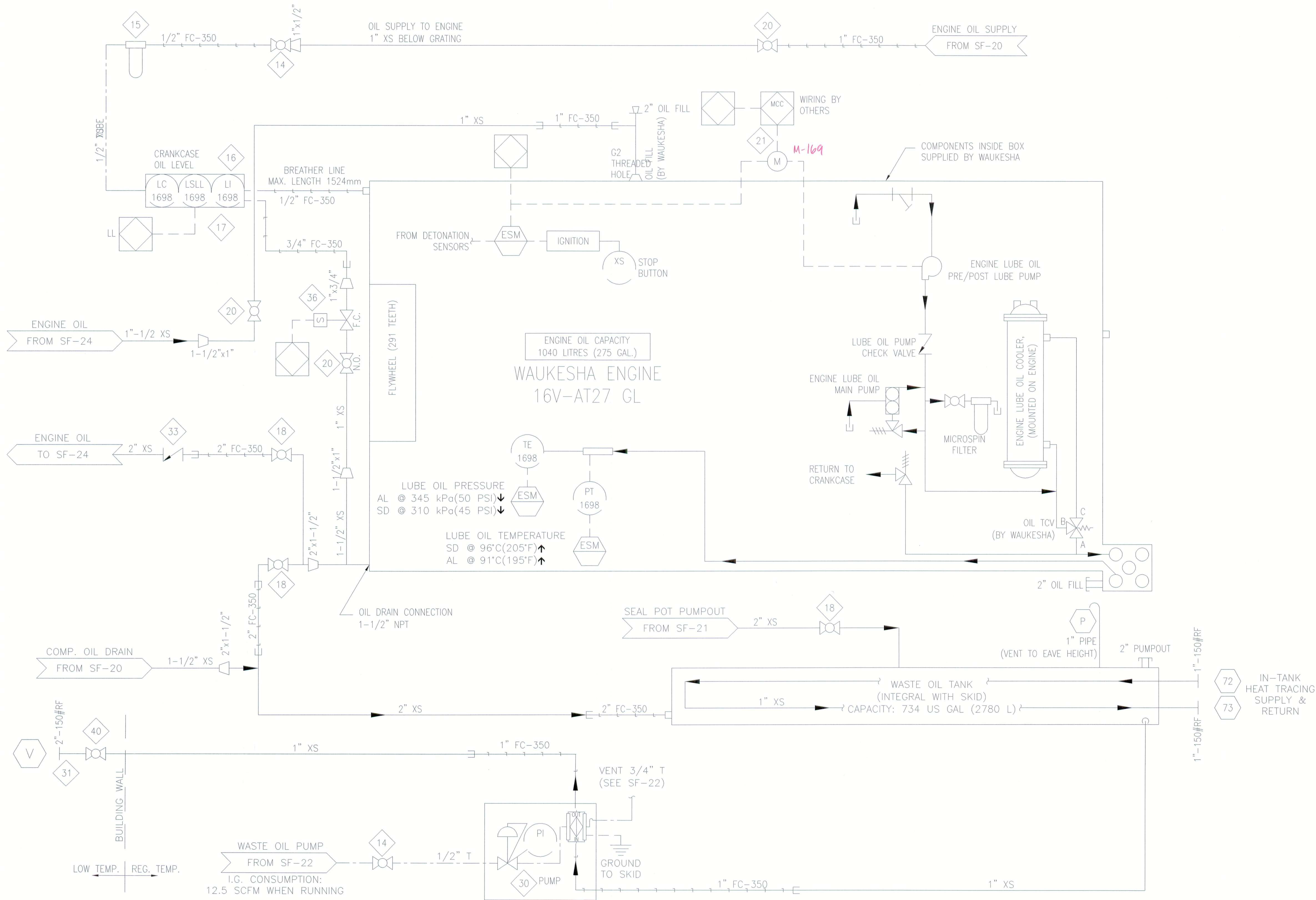
TITLE: SERVICE FLOW - AIR & EXHAUST SYSTEM
ARIEL JGU/6, WAUKESHA 16V-275GL, AIR-X 144-2Z (QTY x 3)
1/2 STAGES SOUR RECIPROCATING COMPRESSOR PACKAGE

FOR: ENCANA OIL & GAS PARTNERSHIP
(HORN RIVER, B.C.)

CONSULTANT: SOLARIS INC. LSD: C-67-K / 94-0-8
P.O.: CED-36628 (K-101-D) JOB No.: 090600

DRWN BY: NH	DESIGN BY: NH	DATE: 09/11/13	DWG. No.	OP#
DATE: 09/11/13	CHKD BY: RVJ	DATE:	SF-090600-26	26
SCALE: NTS	APPVD BY:	DATE:		

J:\Enconna\FNBU_FAC\c-67-K-94-0-8_Etsho_Comp_Stn\Jobs\EN09-00834_Etsho_c-67-K-Expansion\Vendor_Drawings\Enerflex - Compressor\INV201SF-090600-27.dwg Jan 27, 2010 - 3:25pm



BILL OF MATERIAL

ITEM	QTY	PART #	DESCRIPTION
14	2	102949	(S) VALVE, BALL, 1/2" NPT, 2000# WOG, RP, 316SS, NACE C/W [NAVCO, C1-R05S20A]
15	1	121735	(S) FILTER, ASSEMBLY OIL 1/2" NPT 25 MICRON C/W SF-6510-25 [STAUFF, SAF-05-00-0]
16	1	107969	(S) CONTROLLER, OIL LEVEL C/W ELECTRIC SWITCH XP CSA C/W BRACKET [KENCO, KLCE-9]
17	1	104174	(S) BRACKET, MOUNTING, KENCO LCE-9 LEVEL CONTROLLER, FABRICATED
18	3	102951	(S) VALVE, BALL 2" NPT 2000# WOG RP 316SS NACE C/W LOCKING [NAVCO, C1-R20S20A]
20	3	102937	(S) VALVE, BALL 1" NPT 2000# WOG RP 316SS NACE C/W LOCKING [NAVCO, C1-R10S20A]
21	1	NPN	PRE-LUBE MOTOR, NEMA 56C FRAME, 1.5 HP, 1725 RPM, 460V/60HZ/3PH, [BALDOR, VM3554]
30	1	119927C	PUMP, DIAPHRAGM, LEVEL III ASSEMBLY, 1"NPT, ALUM,SOUR GAS,CSA [WARREN RUPP, G1F]
31	1	119259	FLANGE, RF RED HUB, 2" 150# X 1" NPT SA350-LF2
33	1	120133	VALVE, CHECK, SWING, 2" NPT, 800# WOG, CS [NEWCO, 38TFS2]
36	1	125535	VALVE, SOLENOID, 2-WAY, 24VDC, ALUMINUM, 1" NPT [ASCO, 8215B50-24]
40	1	118808	VALVE, BALL, 1" NPT, 3000# WOG, RP, CS, LOW TEMP, NACE, [NUTRON, T3-R10S30SLZ]

SOLARIS MANAGEMENT CONSULTANTS INC.	
Project #	PO #
EN09-00834-ENER-08-23	
RA	☐ REVIEWED & ACCEPTED RESUBMIT AS CERTIFIED
RR	☒ REVIEWED & RETURNED, CORRECT & RESUBMIT
RNR	☐ REVIEW NOT REQUIRED, FOR INFORMATION ONLY
MSP	☐ MANUFACTURING SHALL PROCEED
By: Clementy	Date: FEB 9, 2010



REV	DESCRIPTION	DATE	DRAWN BY	CHECKED BY
0	ISSUED FOR CONSTRUCTION	10/01/22	NH	RVJ
B	RE-ISSUE FOR APPROVAL	09/12/02	NH	RVJ
A	ISSUED FOR APPROVAL	09/11/16	NH	RVJ

ENERFLEX

4700 47 Street SE Calgary AB Canada T2B 3R1 Canada Tel: +1.403.236.6800 Fax +1.403.279.0367
www.enerflex.com

TITLE: SERVICE FLOW - ENGINE LUBE OIL ARIEL JGU/6, WAUKESHA 16V-275GL, AIR-X 144-2Z (QTY x 3) 1/2 STAGES SOUR RECIPROCATING COMPRESSOR PACKAGE			
FOR: ENCANO OIL & GAS PARTNERSHIP (HORN RIVER, B.C.)			
CONSULTANT: SOLARIS INC. P.O.: CED-36628 (K-101-D)		LSD: C-67-K / 94-0-8 JOB No.: 090600	
DRWN BY: NH DATE: 09/11/10 SCALE: NTS	DESIGN BY: NH CHKD BY: RVJ APPVD BY:	DATE: 09/11/10 DATE: DATE:	DWG. No. SF-090600-27 OP# 27

BB
DRIVER - ENGINE
WAUKESHA 16V-275GL
RUNNING SPEED: 1000 RPM
BHP @ 1000 RPM: 4500 HP
S/N: C18653/1

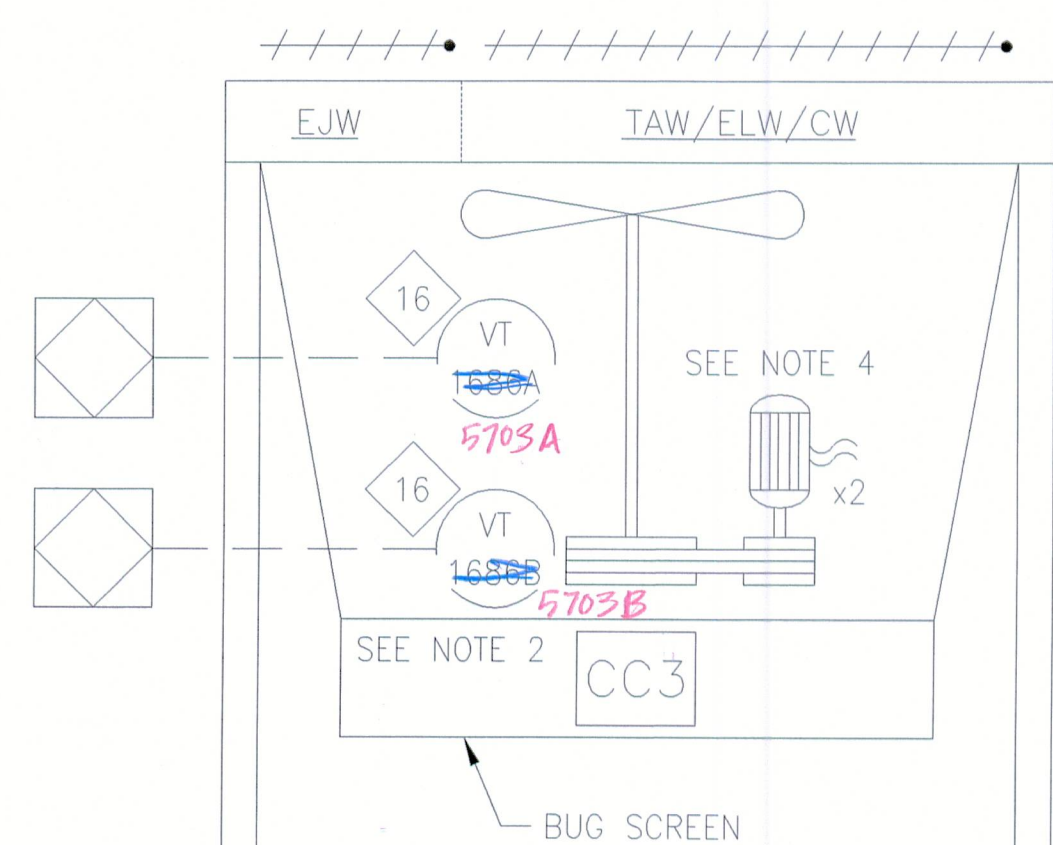
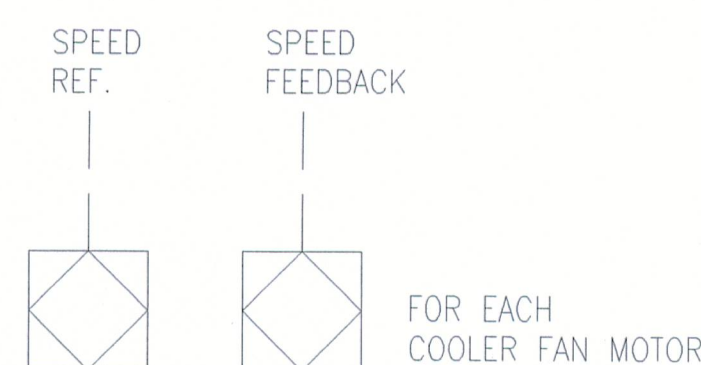
CC1
AERIAL COOLER (IC/AC)
AIR-X-CHANGERS 144-2Z
MOTOR DRIVE (x2) w/ SPACE HEATER
VFD COMPATIBLE, CL. 1, ZONE 2
RATING: 50 HP, 460V/60Hz/3Ph
S/N: 095211

CC2
AERIAL COOLER (AC)
AIR-X-CHANGERS 144-2Z
MOTOR DRIVE (x2) w/ SPACE HEATER
VFD COMPATIBLE, CL. 1, ZONE 2
RATING: 50 HP, 460V/60Hz/3Ph
S/N: 095276

CC3
AERIAL COOLER (UTILITY)
AIR-X-CHANGERS 144-2Z
MOTOR DRIVE (x2) w/ SPACE HEATER
VFD COMPATIBLE, CL. 1, ZONE 2
RATING: 40 HP, 460V/60Hz/3Ph
S/N: 095118

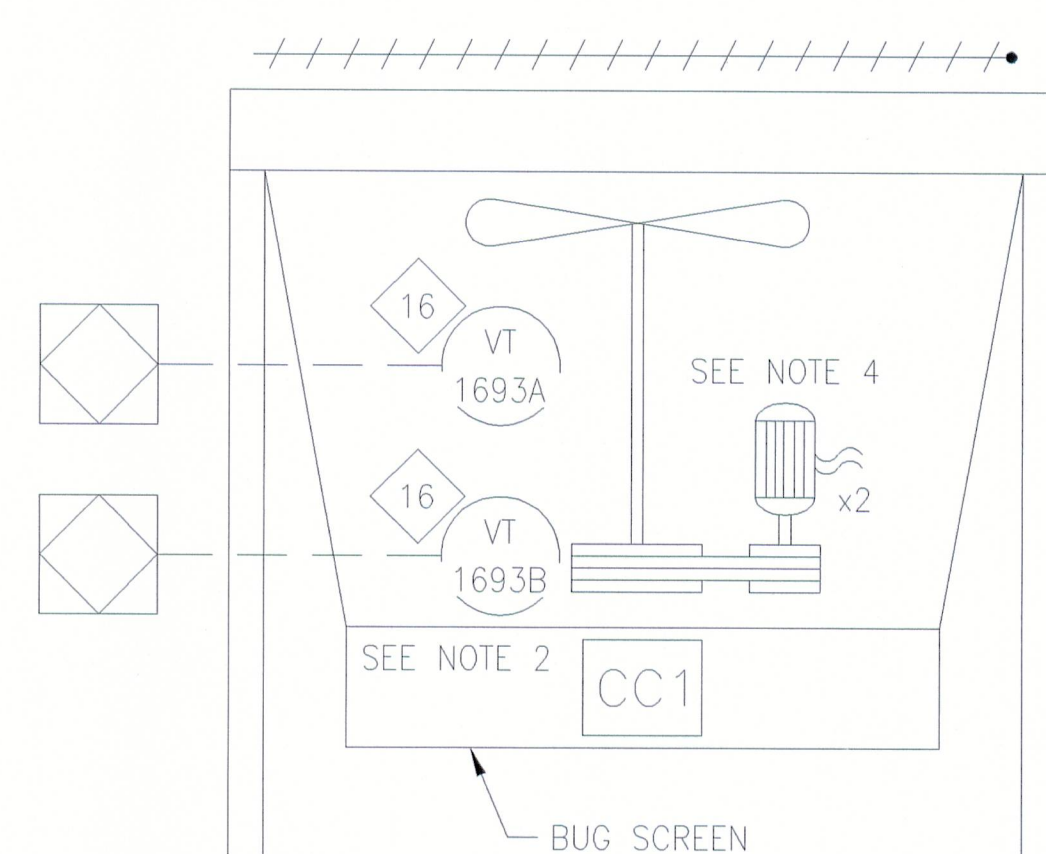
DESCRIPTION	RPM
COOLER FAN RPM	256
COOLER MOTOR RPM	1800

COMPRESSOR
SEE NOTE 1



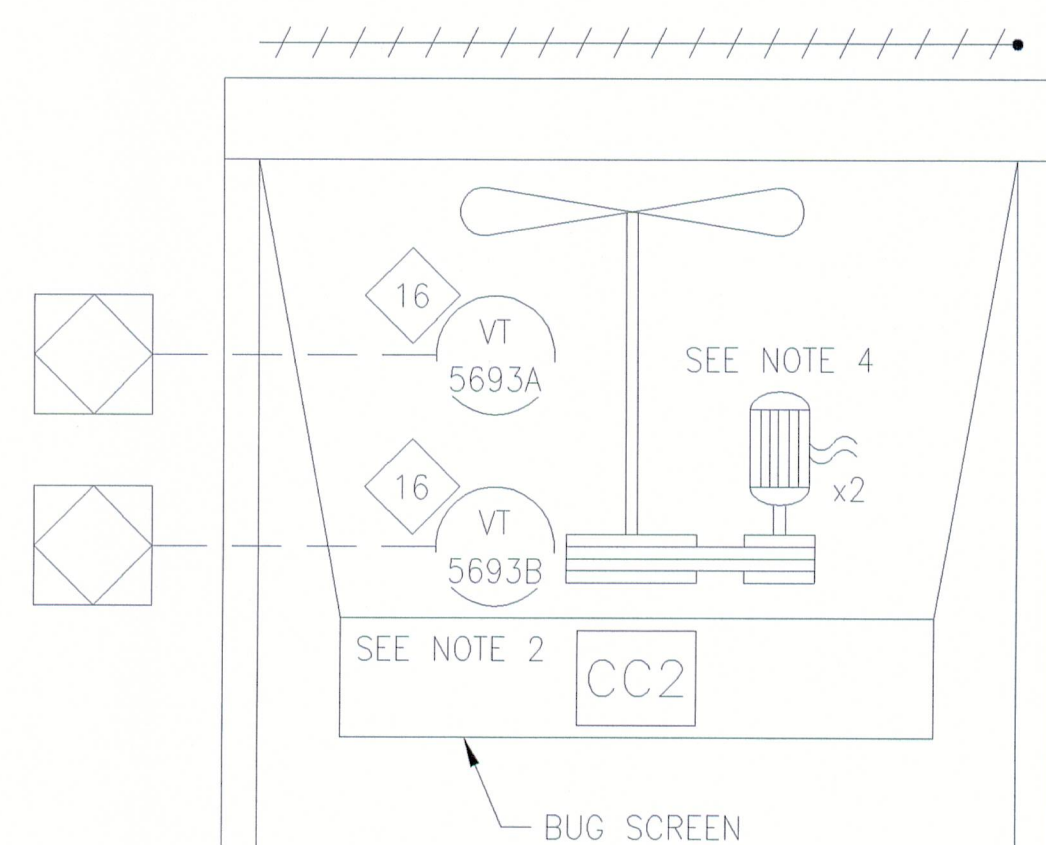
EJW/AW COOLER
S/N: 095118
C-570

DESCRIPTION	RPM
COOLER FAN RPM	245
COOLER MOTOR RPM	1800



IC/AC COOLER
S/N: 095211
C-169

DESCRIPTION	RPM
COOLER FAN RPM	245
COOLER MOTOR RPM	1800



AC COOLER
S/N: 095276
C-569

SOLARIS MANAGEMENT CONSULTANTS INC.	
Project #	PO #
E-00834-ENER-09-01	
RA	☒ REVIEWED & ACCEPTED RESUBMIT AS CERTIFIED
RR	☒ REVIEWED & RETURNED. CORRECT & RESUBMIT
RNR	☐ REVIEW NOT REQUIRED. FOR INFORMATION ONLY
MSP	☐ MANUFACTURING SHALL PROCEED
By: <i>Kanawaty</i>	Date: FEB 9, 2010

[illegible]

NOTES:

1. GROUT BOXES AND SUPERNUTS USED TO SUPPORT COMPRESSOR FRAME AND DISTANCE PIECES.
2. VIBRATION TRANSMITTERS TO BE FIRMLY MOUNTED TO THE MACHINE SURFACE, ORIENTED SO THE LINE OF THE STUD (SENSITIVE AXIS) POINTS INTO THE DIRECTION OF ROTATION NEAR CRANKSHAFT HEIGHT.
3. MAIN BEARING THERMOCOUPLES INSTALLED ON COMPRESSOR FRAME BY ARIEL; INCLUDES WIRING HARNESS.
4. WIRING ON SITE (BY CUSTOMER).
5. TEMPERATURES BETWEEN ANY TWO BEARINGS SHOULD NOT BE MORE THAN 20°F (12°C) DIFFERENT (ALARM) AND MUST NOT BE MORE THAN 30°F (18°C) DIFFERENT (SHUTDOWN).

GENERAL NOTES:

- * DRAWINGS TO BE RELEASED FOR FABRICATION.
** ASSEMBLY BOM TO BE ADDED TO THE JOB WORK ORDER.
*** SUPPLIED BY VENDOR.



0	ISSUE FOR CONSTRUCTION	10/01/22	NH	RVJ
B	RE-ISSUE FOR APPROVAL	09/12/02	NH	RVJ
A	ISSUED FOR APPROVAL	09/11/16	NH	RVJ
REV	DESCRIPTION	DATE	DRAWN BY	CHECKED BY

ENERFLEX

4700 47 Street SE Calgary AB Canada T2B 3R1 Canada Tel. +1.403.236.6800 Fax +1.403.279.0367
www.enerflex.com

TITLE: DRIVE TRAIN MODULE W/ ELECTRIC DRIVE COOLERS
ARIEL JGU/6, WAUKESHA 16V-275GL, AIR-X 144-2Z (QTY x 3)
1/2 STAGES SOUR RECIPROCATING COMPRESSOR PACKAGE

FOR: ENCANA OIL & GAS PARTNERSHIP
(HORN RIVER, B.C.)

CONSULTANT: SOLARIS INC.
P.O.: CED-36628 (K-101-D)

LSD: C-67-K / 94-0-8
JOB No.: 090600

DRWN BY: NH	DESIGN BY: NH	DATE: 09/11/13	DWG. No.	OP#
DATE: 09/11/13	CHKD BY: RVJ	DATE:	SF-090600-28	28
SCALE: NTS	APPVD BY:	DATE:		

