



**ELECTRICAL TERMINATIONS**

- |     |                                      |     |                                       |
|-----|--------------------------------------|-----|---------------------------------------|
| 102 | ENGINE MANIFOLD PRESSURE             | 204 | HIGH DISCHARGE TEMP. CYLINDER #1      |
| 111 | GOVERNOR SPEED CONTROL SIGNAL        | 205 | HIGH DISCHARGE TEMP. CYLINDER #2      |
| 112 | FUEL GAS VALVE SIGNAL                | 206 | HIGH DISCHARGE TEMP. CYLINDER #3      |
| 113 | ENGINE CRANK SIGNAL                  | 207 | HIGH DISCHARGE TEMP. CYLINDER #4      |
| 114 | FUEL FILTER HIGH LIQ. LEVEL          | 208 | SUCTION PRESSURE STG. ONE             |
| 130 | HIGH TEMPERATURE ENGINE OIL          | 209 | DISCHARGE PRESSURE STG. ONE           |
| 131 | LOW PRESSURE ENGINE OIL              | 210 | DISCHARGE PRESSURE STG. TWO           |
| 132 | LOW LEVEL ENGINE OIL                 | 211 | DISCHARGE PRESSURE STG. THREE         |
| 134 | AUX LUBE PUMP SIGNAL (ENGINE & COMP) | 220 | LOW PRESSURE COMPRESSOR OIL           |
| 141 | HIGH TEMPERATURE ENGINE J.W.         | 221 | LOW LEVEL COMPRESSOR OIL              |
| 143 | LOW LEVEL E.J.W. SURGE TANK          | 222 | LUBRICATOR NO FLOW SWITCH (RIGHT)     |
| 145 | ENGINE TURBO WATER TEMPERATURE       | 223 | LUBRICATOR NO FLOW SWITCH (LEFT)      |
| 146 | LOW LEVEL T.A.W. SURGE TANK          | 224 | COMPRESSOR OIL HIGH TEMPERATURE       |
| 150 | VIBRATION ENGINE                     | 244 | VIBRATION COMPRESSOR                  |
| 153 | ENGINE OVERSPEED                     | 300 | VIBRATION COOLER                      |
|     |                                      | 510 | HIGH LIQUID LEVEL SCRUBBER STG. ONE   |
|     |                                      | 511 | HIGH LIQUID LEVEL SCRUBBER STG. TWO   |
|     |                                      | 512 | HIGH LIQUID LEVEL SCRUBBER STG. THREE |
|     |                                      | 602 | AUTO BYPASS VALVE SIGNAL              |

**PNEUMATIC TERMINATIONS**

- 70 INSTRUMENT GAS

**GENERAL NOTES**

- 1. INSTRUMENTATION**
  - TEMP. & PRESS. GAUGES SHALL BE DUAL SCALE
  - INSTRUMENT MEDIUM TO CLEAN DRY FUEL GAS
  - CONTROL PANEL POWERED BY - 24 V DC
  - PROCESS TUBING TO BE 1/4" OD x .035" w.t. 316SS
  - FITTINGS TO BE 316SS c/w 316SS FERRULES
  - INSTRUMENT TUBING TO BE 1/4" OD x .035" w.t. 316SS
  - FITTINGS TO BE 316SS c/w 316SS FERRULES
  - LUBE OIL TUBING TO BE OD AS NOTED x .035" w.t. 316SS
  - FITTINGS TO BE 316SS c/w 316SS FERRULES
  - TUBING RUNS IN TRAFFIC AREAS SHALL BE PROTECTED WITH REMOVABLE COVER
  - ON SKID TUBING BY BIDELL
  - ON SKID I.S. WIRING BY BIDELL
  - ON SKID CONDUIT BY BIDELL (ALUMINUM)
- 2. PROCESS PIPING**
  - CONSTRUCTED IN ACCORDANCE WITH ANSI B31.3
  - HYDROSTATIC TESTED TO 1.5 x DESIGN PRESS. @ AMBIENT
  - CORROSION ALLOWANCE = 0.0625 INCHES
  - RADIOGRAPHIC EXAMINATION = 10%
  - STRESS RELIEVED - NONE
  - INTERNALLY POWER CLEANED & RUST PROTECTED
  - EXTERNALLY POWER CLEANED
  - ALL FLANGED RELIEF VALVES SHALL BE GUSSETED BACK TO PIPING OR VESSEL
  - PIPING TO BE ANCHORED TO STRUCTURAL MEMBER WITH BIDELL STANDARD STRAP TYPE HEAVY DUTY CLAMPS (NO "U-BOLT" TYPE)
  - PROCESS SCREWED CONNECTIONS SHALL BE 3000# F.S. THREADED
- 3. PROCESS PRESSURE VESSELS**
  - CONSTRUCTED IN ACCORDANCE WITH ASME SECTION VIII, DIV. 1
  - HYDROSTATIC TESTED TO 1.3 x DESIGN PRESS. @ AMBIENT
  - CORROSION ALLOWANCE = 0.0625 INCHES
  - RADIOGRAPHIC EXAMINATION = 10% UW-1a (5b), RT-2
  - STRESS RELIEVED - NONE
  - EXTERNALLY POWER CLEANED
  - INTERNALLY POWER CLEANED & RUST PROTECTED
  - SCREWED CONNECTIONS ON VESSELS SHALL BE 3000# F.S. THREADED
  - CRN'S REQ'D FOR AB, & SK
- 4. STRUCTURAL STEEL**
  - FLAT SEAL PAN ON SKID IS REQ'D
  - UNIT COMPLETE WITH 3 TON BRIDGE CRANE
- 5. CUSTOMER NOTES**
  - UNIT DESIGNED FOR JACK & ROLL LOADING ONLY
  - COLOR OF PACKAGE: - GRATING BLACK
  - UNIT RUSTOLEUM WARM GRAY
  - BUILDING GALVANIZED
  - LSD: NW 1/4-35-16-19 W4M

**AS BUILT**

*10/May/2004*

REV	DATE	BY	APPR	DESCRIPTION
B	04-05-10	BK	VK	AS BUILT
A	04-03-10	TW	VK	ISSUED FOR CONSTRUCTION
O	04-02-27	JB	VK	ISSUED FOR APPROVAL

DRAWN	JB
DATE	04-01-14
SCALE	NTS
CHK'D	

**PROCESS & INSTRUMENTATION FLOW DIAGRAM**  
FOR:  
**CATERPILLAR G3512AFRC / ARIEL JGE-4 / AIR-X 132EF**

**BIDELL EQUIPMENT**  
GAS COMPRESSION

5900 - 112th AVENUE S.E.  
CALGARY, AB T2C 4Z1

PHONE: (403) 235-5877  
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CUSTOMER:	INNOVA ENERGY LTD c/o MILLENA RESOURCE CONSULTING
PROJECT:	ARMADA 16-19 W4M
SHOP ORDER:	04-266
DWG NO:	04-266-1A
REVISION:	B

SWEET GAS SERVICE

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