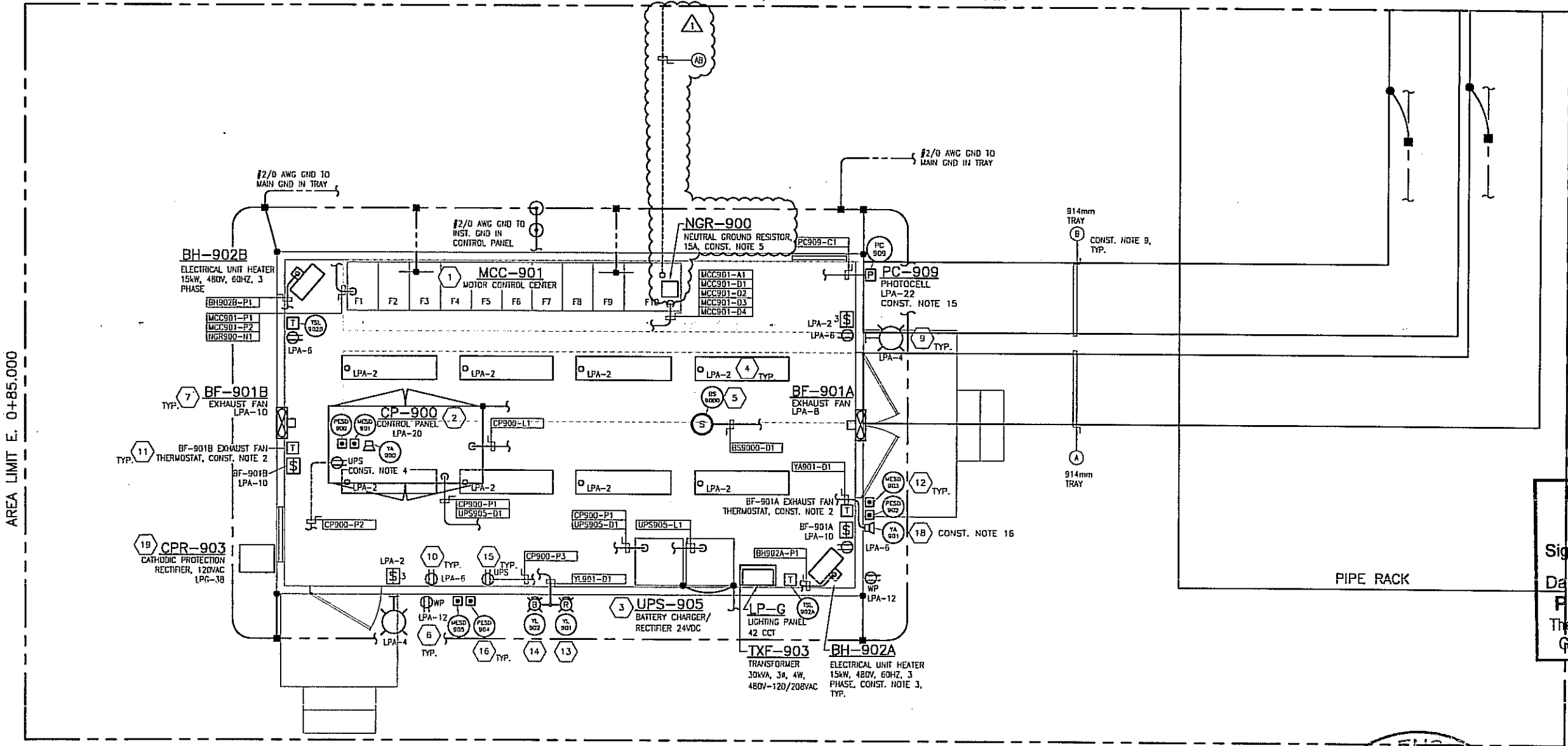


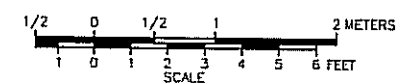
BILL OF MATERIALS				BILL OF MATERIALS					
ITEM	QTY	DESCRIPTION	MANUFACTURER	SUPPLIED BY	ITEM	QTY	DESCRIPTION	MANUFACTURER	SUPPLIED BY
11	2	EXHAUST FAN THERMOSTAT, CLOSE ON RISE 120VAC, 15A, 1/2 HP RATED	AS REQ'D	ELECTRICAL BLDG. CONTRACTOR	1	1	MOTOR CONTROL CENTER, MCC-901	MOELLER	OWNER
12	2	ESD PUSHBUTTON, MAINTAINED, RED MUSHROOM HEAD, FACT. SEALED, C/W CRUSADER SHROUD	CROUSE-HINDS EFS2184-37699	ELECTRICAL BLDG. CONTRACTOR	2	1	CONTROL PANEL, CP-900	CUSTOM	OWNER
13	1	STROBE LIGHT (RED), 24VDC	FEDERAL SIGNAL 141ST24R	ELECTRICAL BLDG. CONTRACTOR	3	1	UPS-905 BATTERY CHARGER/INVERTER 24VDC OUTPUT C/W BATTERIES	HAYLEY	OWNER
14	1	STROBE LIGHT (BLUE), 24VDC	FEDERAL SIGNAL 141ST24B	ELECTRICAL BLDG. CONTRACTOR	4	8	INTERIOR FLUORESCENT LIGHTS, 2x40TB, LOW MERCURY TYPE C/W LIGHT SWITCHES	AS REQ'D	ELECTRICAL BLDG. CONTRACTOR
15	2	UPS RECEPTACLE (ORANGE), 120VAC, 15A, DUPLEX	AS REQ'D	ELECTRICAL BLDG. CONTRACTOR	5	1	SMOKE DETECTOR	NET SAFETY	OWNER
16	2	ESD PUSHBUTTON, MAINTAINED, YELLOW MUSHROOM HEAD, FACT. SEALED, C/W CRUSADER SHROUD	CROUSE-HINDS	ELECTRICAL BLDG. CONTRACTOR	6	2	RECEPTACLE 120VAC, 15A DUPLEX, GFCI RATED (OUTDOOR C/W WEATHER PROOF COVER)	-	ELECTRICAL BLDG. CONTRACTOR
17	1	LIGHTING PANEL, 42 CCT	CROUSE-HINDS	ELECTRICAL BLDG. CONTRACTOR	7	2	EXHAUST FAN, WALL MOUNTED 120VAC, 1 PHASE, 60Hz, 0.5HP C/W SHUTTERS, BACK GUARD & HOODS	AS REQ'D	OWNER
18	1	ALARM HORN, 24VDC	CROUSE-HINDS	ELECTRICAL BLDG. CONTRACTOR	8	2	UNIT HEATERS 15kW 480VAC, 3 PHASE, 60Hz C/W THERMOSTATS	RUFFNECK	ELECTRICAL BLDG. CONTRACTOR
19	1	CATHODIC PROTECTION RECTIFIER, 120VAC	CORRPRO	OWNER	9	2	EXTERIOR LIGHTING, 120VAC, 70W HPS, VAPOUR TIGHT WALL MOUNT	AS REQ'D	ELECTRICAL BLDG. CONTRACTOR
					10	4	RECEPTACLE 120VAC, 15A DUPLEX	AS REQ'D	ELECTRICAL BLDG. CONTRACTOR

MATCHLINE N. 0+82.500 CONT'D. ON DWG. 9864-U-011A



23 JAN 2007
ISSUED FOR
CONSTRUCTION

PERMIT TO PRACTICE
GRB ENGINEERING LTD.
Signature: [Signature]
Date: JAN 22 2007
PERMIT NUMBER: P 7127
The Association of Professional Engineers,
Geologists and Geophysicists of Alberta



AREA LIMIT N. 0+73.000

AREA LIMIT E. 0+85.000

AREA LIMIT E. 1+05.000

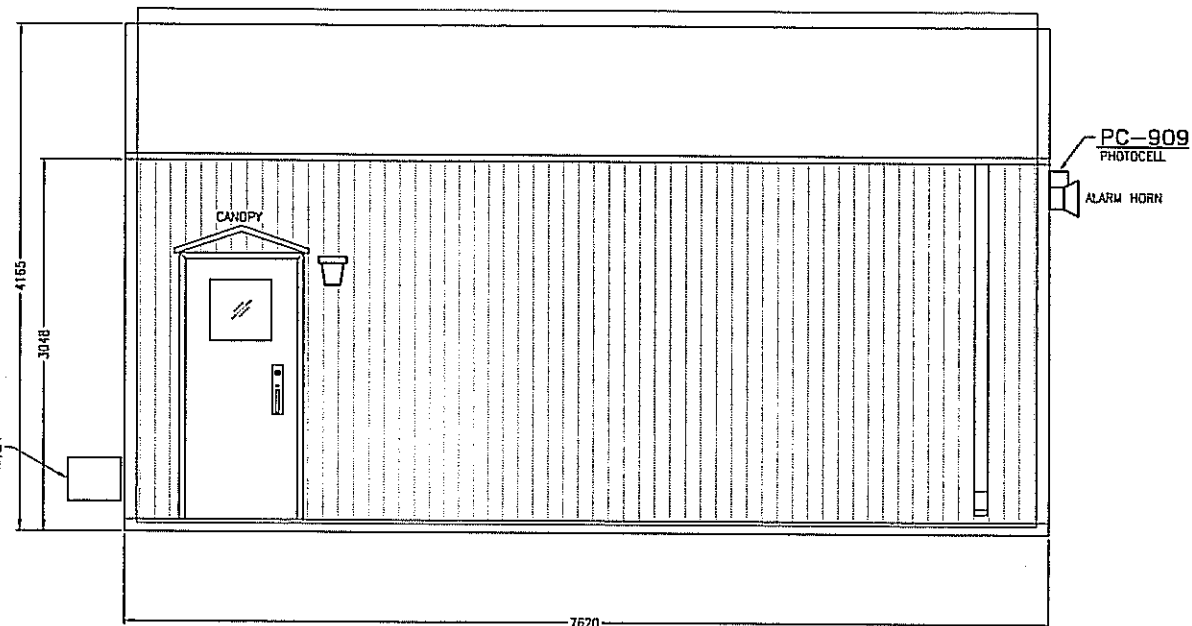
NOTES:

REFERENCE DRAWINGS		REVISIONS						
DWG. NO.	DESCRIPTION	NO.	DESCRIPTION	PROJECT	DATE	BY	CHK.	ENG.
		A	PRELIMINARY	9864.00	06.05.21	EBD	DPS	JMW
		B	ISSUED FOR BUILDING QUOTATION	9864.00	06.08.18	EBD	DPS	JMW
		C	ISSUED FOR ELECTRICAL BUILDING FABRICATION	9864.00	06.12.08	KAW	DAR	JMW
		D	RE-ISSUED FOR ELECTRICAL BLDG. FABRICATION	9864.00	07.01.03	KAW	DAR	JMW
		E	ISSUED FOR APPROVAL	9864.00	07.01.10	KAW	DAR	JMW
		O	ISSUED FOR CONSTRUCTION	9864.00	07.01.15	KAW	DAR	JMW
		1	RE-ISSUED FOR CONSTRUCTION	9864.00	07.01.22	KAW	MSC	DAR

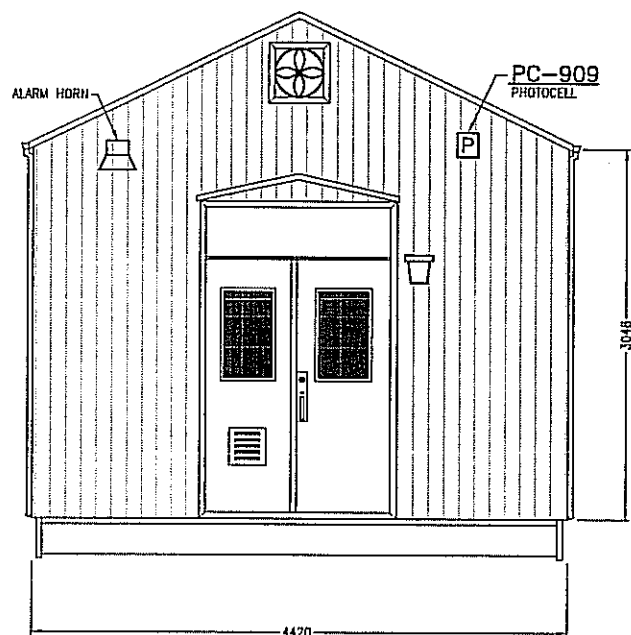
ENGINEERING
GRB ENGINEERING LTD.
JAN 22 2007

PIONEER
NATURAL RESOURCES CANADA
16-13 ATIKAMIK COMPRESSOR STATION
ELECTRICAL BUILDING
ELECTRICAL LAYOUT & ELEVATIONS
PROJECT NO. 9864.00 SCALE: 1:30 DWG. NO. 9864-U-010A REV. 1

CPR-903
CATHODIC PROTECTION
RECTIFIER



SIDE ELEVATION

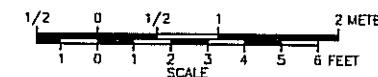


END ELEVATION

23 JAN 2007
ISSUED FOR
CONSTRUCTION

CONSTRUCTION NOTES:

1. ALL ELECTRICAL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE AND THE ALBERTA SAFETY CODES COUNCIL.
2. ELECTRICAL BUILDING CONTRACTOR SHALL SUPPLY AND INSTALL POWER AND THERMOSTATS FOR EACH EXHAUST FAN AS SHOWN. EXHAUST FANS ARE TO HAVE STORMHOODS ON THE THE EXTERIOR OF THE BUILDING.
3. FIELD CONTRACTOR SHALL WIRE HEATER THERMOSTATS DIRECTLY TO ELECTRIC HEATERS. ELECTRIC HEATERS SHALL BE MOUNTED NEAR FLOOR LEVEL.
4. ELECTRICAL BUILDING CONTRACTOR TO REPLACE EXISTING UPS RECEPTACLE WITH ORANGE UPS RECEPTACLE.
5. FIELD CONTRACTOR TO INSTALL OWNER-SUPPLIED NGR-900 NEUTRAL GROUND RESISTOR ENCLOSURE ON TOP OF MCC-901.
6. ELECTRICAL BUILDING ELECTRICAL CONTRACTOR SHALL BRACE AND SUPPORT ALL THE EQUIPMENT TO BE SHIPPED AND TEMPORARILY REMOVE ANY ITEMS WHICH CANNOT BE PROPERLY SUPPORTED. THIS INCLUDES SUCH ITEMS AS LIGHTING FIXTURE LENSES. CONTROL BUILDING ELECTRICAL CONTRACTOR SHALL ALSO SHIP LOOSE TO SITE, EXTERIOR LIGHTS, PHOTOCELL, STROBE(S), ETC.
7. FIELD CONTRACTOR SHALL INSTALL AND TERMINATE ALL LOOSE SHIPPED DEVICES.
8. MCC-901 MOTOR CONTROL CENTER WEIGHT IS AN ESTIMATED 320kg PER VERTICAL SECTION.
9. CABLE TRAY TO BE RUN BENEATH THE ELECTRICAL BUILDING AS SHOWN.
10. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
11. ALL EQUIPMENT SHALL BE LOCATED 50mm FROM WALL.
12. ELECTRICAL BUILDING CONTRACTOR SHALL SEAL ALL BUILDING HOLES PRIOR TO SHIPMENT (PREVENTING WATER AND DUST ENTRY DURING TRANSIT).
13. FIELD CONTRACTOR SHALL GROUND MCC BUS AT EACH END VIA #2/0 TWH GREEN INSULATED GROUND AS SHOWN.
14. FIELD CONTRACTOR TO INSTALL METAL BARRIER IN CABLE TRAYS, AS REQUIRED, TO SEPARATE 480/208/120VAC POWER CABLES FROM 24VDC POWER, DISCRETE, AND ANALOG CABLES.
15. FIELD CONTRACTOR TO MOUNT PHOTOCEL ON NORTH-EAST SIDE OF THE ELECTRICAL BUILDING.
16. FIELD CONTRACTOR TO MOUNT ALARM HORN ON EAST SIDE OF THE ELECTRICAL BUILDING.



NOTES:

REFERENCE DRAWINGS		REVISIONS						
DWG. NO.	DESCRIPTION	NO.	DESCRIPTION	PROJECT	DATE	BY	CHK.	ENG.
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		E	ISSUED FOR APPROVAL	9864.00	07.01.10	KAW	DAR	JMW
		0	ISSUED FOR CONSTRUCTION	9864.00	07.01.15	KAW	DAR	JMW
		1	ISSUED FOR INFORMATION	9864.00	07.01.22	KAW	MSC	JMW

ENGINEERING STAMP



16-13 ATKAMIK COMPRESSOR STATION
ELECTRICAL BUILDING
ELEVATIONS AND SPECIFICATIONS

GRB ENGINEERING Ltd.

PROJECT NO. 9864.00	SCALE: 1:30	DWG. NO. 9864-U-010B	REV. 1
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