



COMMUNICATIONS EQUIPMENT BUILDING. CONTRACTOR TO TERMINATE WIRING INSIDE A NEW TERMINAL STRIP WITH SUITABLE TRANSIENT VOLTAGE SURGE SUPPRESSION (BOTH CONTRACTOR PROVIDED) AND GROUNDED PER NATIONAL ELECTRICAL CODE. CONTRACTOR TO INSTALL 25mm CONDUIT BETWEEN TERMINAL STRIP AND CABLE TRAY AT CEILING. DFO CCG PERSONNEL WILL MAKE FINAL CONNECTIONS BETWEEN COMMUNICATIONS EQUIPMENT AND THE TERMINAL STRIP

**NOTES:**

- 1) THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE SPECIFICATION DOCUMENT.
- 2) INSTALLER TO VERIFY LOCATION OF ALL PROPERTY BOUNDARIES, STRUCTURES, UTILITIES, ROADS/DRIVEWAYS, WELLS, WATERCOURSES AND WATERBODIES BEFORE BEGINNING OF WORK.
- 3) INSTALLER TO ADVISE ENGINEER OF ANY ADDITIONS OR CHANGES TO SITE PLAN RESULTING FROM NOTE 1 PRIOR TO BEGINNING OF WORK.
- 4) ALL INSTALLATIONS SHALL COMPLY WITH FEDERAL REGULATIONS, THE NATIONAL FIRE CODE OF CANADA, THE CANADIAN ELECTRICAL CODE, THE INSTALLATION CODE FOR OIL-BURNING EQUIPMENT (B139 SERIES 15), AS WELL AS ANY OTHER GOVERNING CODES AND INSTALLATION PRACTICES.
- 5) ALL NEW EQUIPMENT SHALL BE ULC LISTED AND INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS.
- 6) THE CONTRACTOR IS RESPONSIBLE FOR ALL UNDERGROUND (IF APPLICABLE TO WORK) AND ABOVEGROUND UTILITY LOCATES AND CLEARANCES. COORDINATE WITH THE OWNER. ALWAYS BE AWARE OF THE LOCATION OF EXISTING UTILITIES AND OVERHEAD POWER LINES.
- 7) IF FURTHER CLARIFICATIONS ARE REQUIRED ON EQUIPMENT OR THE INSTALLATION OF EQUIPMENT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST CLARIFICATIONS FROM THE CONSULTANT.
- 8) THESE DRAWINGS TO BE USED FOR GENERAL GUIDANCE SHOWING APPROXIMATE EQUIPMENT ARRANGEMENT ONLY.
- 9) THESE DRAWINGS DEPICT REMOVAL OF THREE EXISTING TANKS AND REINSTATEMENT OF THE NEW ARRANGEMENT AS SHOWN. SYSTEM CODE DEFICIENCIES RELATED TO FILL LOCATION AND VENT LOCATION ARE OUTSIDE THE SCOPE OF THIS PROJECT AND ARE THE RESPONSIBILITY OF THE CLIENT.

**SCOPE OF WORK:**

- 1) CONTRACTOR TO DETERMINE BEST METHOD TO PERFORM WORK BASED ON PERFORMING THE WORK SAFELY, EQUIPMENT CONDITION, MINIMIZING SYSTEM DOWNTIME AND AVAILABLE SPACE INSIDE THE WORK AREA.
- 2) ALL WORK IS TO BE DONE IN AN ENVIRONMENTALLY RESPONSIBLE MANNER. THE WORK AREA IS TO BE PROTECTED FROM FUEL SPILLS.
- 3) DE ENERGIZE ALL CONNECTED COMPONENTS AND ISOLATE THE FUEL SYSTEM FROM THE GENERATOR. DRAIN ALL PIPING AND TANKS AS REQUIRED TO PERFORM THE WORK.
- 4) REMOVE AND DISPOSE OF EXISTING TANKS IN ACCORDANCE WITH FEDERAL AND PROVINCIAL REGULATIONS.
- 5) POSITION THE NEW TANKS AS SHOWN ON THE DRAWINGS AND CONNECT ALL PIPING, SPILL CONTAINER AND TANK APPURTENANCES TO SUIT NEW ARRANGEMENT. TEST FOR LEAKS.
- 6) INSTALL, TEST AND COMMISSION NEW REMOTE TANK LEVEL MONITORING SYSTEM IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. EXISTING COMMUNICATION EQUIPMENT IS TO BE CONNECTED TO OUTPUT RELAYS IN THE MONITORING SYSTEM CONSOLE. THE MONITORING SYSTEM IS TO ACTIVATE THE FIRST RELAY WHEN THE FUEL LEVEL IN THE TANKS DROPS TO 50 PERCENT OF MAXIMUM OR LESS. THE SECOND RELAY IS TO ACTIVATE WHEN THE FUEL LEVEL DROPS TO 25 PERCENT OF MAXIMUM OR LESS. THE EXISTING FACILITY COMMUNICATIONS EQUIPMENT SUPPLIES A MAXIMUM OF 24 VOLTS DC TO THE RELAY CONTACTS. AN OFF-SITE SIGNAL WILL BE SENT TO DFO CCG PERSONNEL AT THE ABOVE ALARM SET POINTS. CONTRACTOR IS RESPONSIBLE FOR SELECTION AND INSTALLATION OF PROPER ELECTRICAL WIRING/CABLE (EXISTING CONDUITS AND ONE CAT 5 CABLE IS AVAILABLE IF SUITABLE FOR PROPOSED SYSTEM), TERMINAL STRIP, SURGE SUPPRESSION, GROUNDING AND ALL OTHER ELECTRICAL EQUIPMENT NECESSARY TO COMPLETE A FUNCTIONAL ELECTRONIC MONITORING SYSTEM THAT MEETS THE CANADIAN ELECTRICAL CODE AS WELL AS THE OWNERS REQUIREMENTS. ENGINEER HAS NOT REVIEWED THE SUITABILITY OF THE EXISTING CONDUITS FOR USE WITH THE NEW WIRING.
- 7) MONITORING CONSOLE IS TO ACTIVATE A LOCAL ONLY HIGH LEVEL VISUAL/AUDIBLE ALARM WHEN TANK LIQUID LEVEL REACHES 90% OF MAXIMUM CAPACITY.

NOTE: THIS DRAWING ILLUSTRATES INFORMATION SPECIFIC TO A STANTEC CONSULTING LIMITED PROJECT AND MUST NOT BE USED FOR OTHER PURPOSES.

Reference:	Scale:	1:1000	Job No.:	EMERGENCY GENERATOR SYSTEM	KEY & SITE LOCATION PLANS	Dwg. No.:	01	Stantec	
	Date:	15 11 06							121811737
	Dwn. By:	BGW	Client:						DFO RPSS
	App'd By:	ERF							
				POINT ESCUMINAC LIGHT STATION NORTHUMBERLAND COUNTY, NB			rev.a		

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