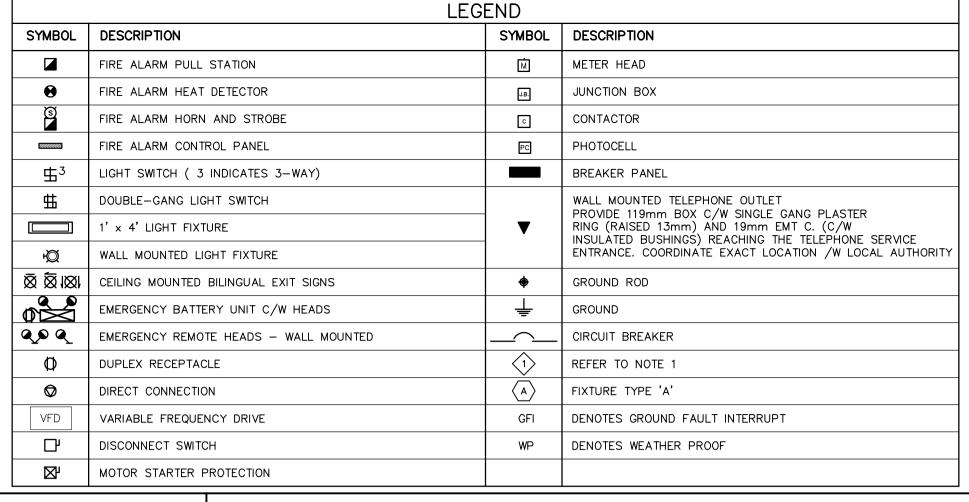
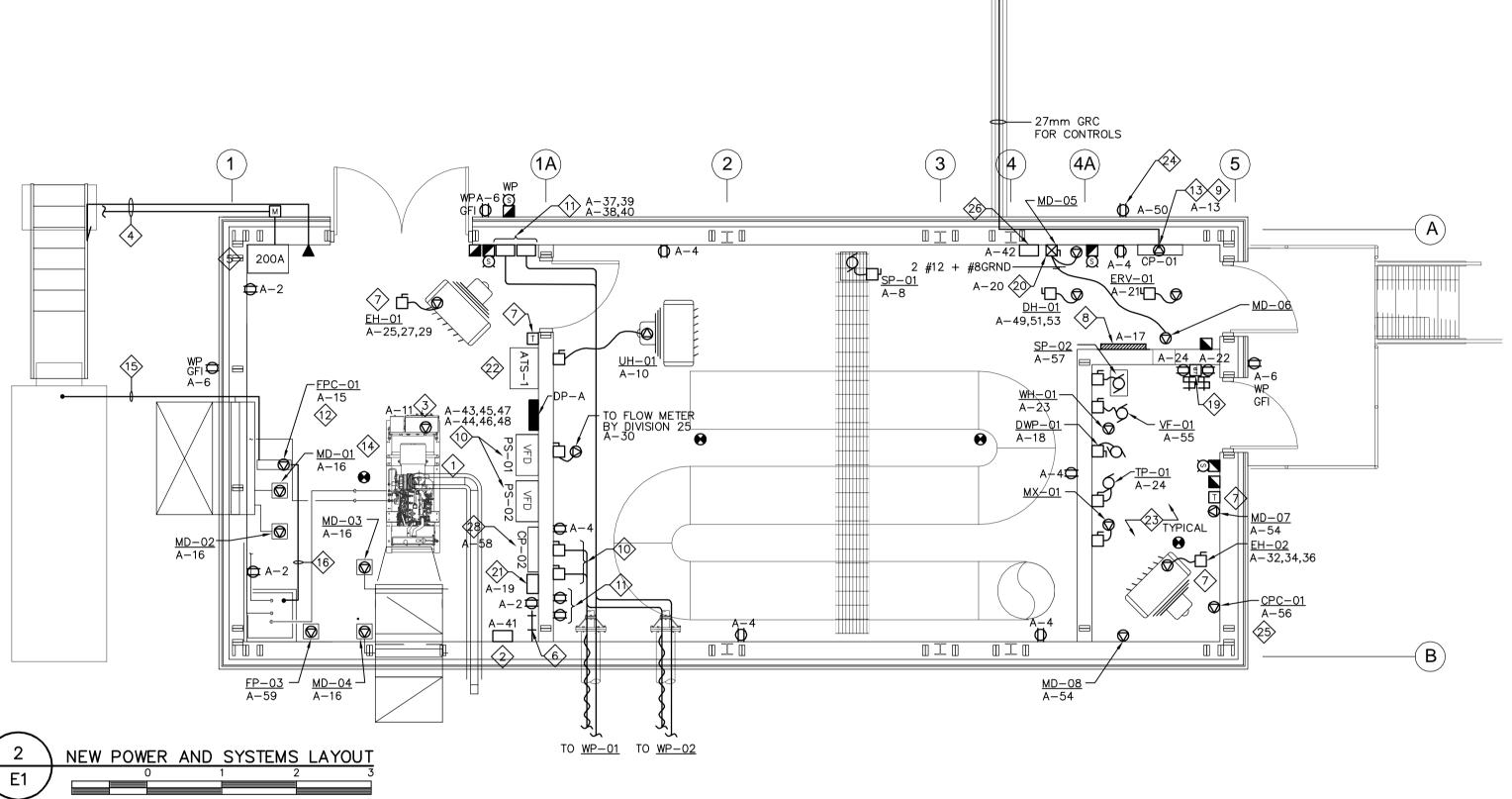
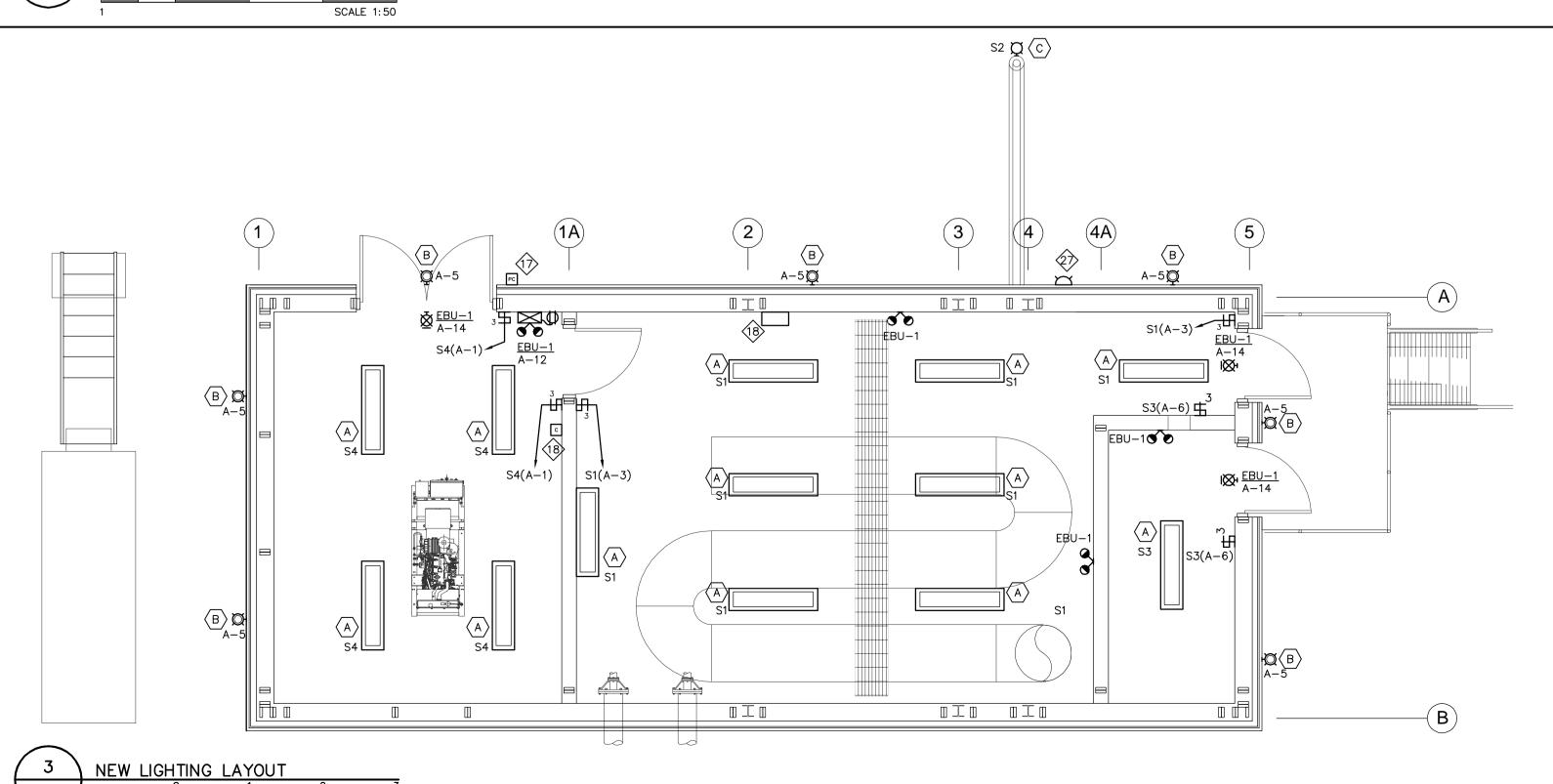


	F	IXTURE SCHEDULE
SYMBOL	TYPE	DESCRIPTION
	A	1391mm x 210mm VAPOUR PROOF LED - 44W LED LAMP - FROSTED POLYCARBONATE HOUSING WITH CONTINUOUS POUREDIN—PLACE, CLOSED GASKET. - IMPACT—RESISTANT, CLEAR TRANSPARENT POLYCARBONATE LEN. - 120V OPERATED - CHAIN SUPPORT
Ď	В	WALL MOUNTED LED DOWNLIGHT - 72W LED LAMP - WEATHER RESISTANT DIE CAST ALUMINUM HOUSING - PROTECTIVE GLASS LEN - 120V OPERATED - C/W VANDAL GUARD
Ď	©	VAPOUR LIGHT FIXTURE - 39W LED LAMP - WEATHER RESISTANT DIE CAST ALUMINUM HOUSING WITH CORROSION—RESISTNT PAINT - SEALED GASKET AGAINST MOISTURE AND DUST - FROSTED GLASS DIFFUSER - 120V OPERATED - C/W VANDAL GUARD

		LEGEND				
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION			
	FIRE ALARM PULL STATION	M	METER HEAD			
•	FIRE ALARM HEAT DETECTOR	J.B.	JUNCTION BOX			
(S)	FIRE ALARM HORN AND STROBE	c	CONTACTOR			
uuum.	FIRE ALARM CONTROL PANEL	PC	PHOTOCELL			
雪 3	LIGHT SWITCH (3 INDICATES 3-WAY)		BREAKER PANEL			
#	DOUBLE-GANG LIGHT SWITCH		WALL MOUNTED TELEPHONE OUTLET			
	1' × 4' LIGHT FIXTURE	▼	PROVIDE 119mm BOX C/W SINGLE GANG PLASTER RING (RAISED 13mm) AND 19mm EMT C. (C/W INSULATED BUSHINGS) REACHING THE TELEPHONE SERVICE			
+Ø	WALL MOUNTED LIGHT FIXTURE		ENTRANCE. COORDINATE EXACT LOCATION /W LOCAL AUT			
<u> </u>	CEILING MOUNTED BILINGUAL EXIT SIGNS	•	GROUND ROD			
	EMERGENCY BATTERY UNIT C/W HEADS	<u></u>	GROUND			
Q.O.Q.	EMERGENCY REMOTE HEADS - WALL MOUNTED		CIRCUIT BREAKER			
Ф	DUPLEX RECEPTACLE	1	REFER TO NOTE 1			
Ø	DIRECT CONNECTION	A	FIXTURE TYPE 'A'			
VFD	VARIABLE FREQUENCY DRIVE	GFI	DENOTES GROUND FAULT INTERRUPT			
	DISCONNECT SWITCH	WP	DENOTES WEATHER PROOF			
₩	MOTOR STARTER PROTECTION					







- PERFORM COMPLETE INSTALLATION OF EQUIPMENT IN STRICT ACCORDANCE, AND SHALL MEET THE MOST STRINGENT REQUIREMENTS OF THE FOLLOWING STANDARDS:
 - CSA C22.1 -15 CANADIAN ELECTRICAL CODE, PART 1 (23RD EDITION).
 - 2. GOVERNMENT OF NUNAVUT'S GOOD BUILDING PRACTICES GUIDELINES SECOND EDITION DECEMBER, 2005.

 3. DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES PROTECTION SERVICES DIVISION GN ELECTRICAL BULLETINS OFFICE OF THE NUNAVUT FIRE MARSHALL TECHNICAL BULLETINS.
- VERIFY WITH THE ELECTRICAL INSPECTION DEPARTMENT THE ACCEPTABILITY OF ANY PRE-WIRING DONE OUTSIDE THE PROVINCE OF NUNAVUT AND ENSURE THAT A PERMIT IS ACQUIRED.

- PROVIDE AND INSTALL NEW 50kW/60kVA, 120/208V, 3Ø, 4W EMERGENCY GENERATOR G1.
- PROVIDE AND INSTALL BATTERY CHARGER AS INDICATED. COMPLETE CONNECTION FROM CHARGER TO BATTERIES AT GENERATOR.
- FEED BLOCK HEATER TERMINAL BOX FROM PANEL DP-A AS INDICATED. REFER TO PANEL SCHEDULE.
- OVERHEAD INCOMING POWER AND COMMUNICATION SERVICE. PROVIDE ONE (1) 38mm RIGID GALVANIZED CONDUIT STUB TO EXTERIOR OF BUILDING FOR SERVICE ENTRANCE AND SEAL.
- PROVIDE MAIN INCOMING FEEDER BREAKER AS INDICATED. REFER TO SINGLE LINE DIAGRAM FOR DETAILS.
- PROVIDE GROUND BUS IN NEW GENERATOR ROOM AS INDICATED. REFER TO 1/E3 FOR DETAILS.
- PROVIDE 120/208V, 3Ø ELECTRIC UNIT HEATER EQUIPPED WITH RELAY BASE AS INDICATED. PROVIDE CONDUIT AND WIRE TO THERMOSTAT AS INDICATED. COORDINATE CONNECTION WITH MECHANICAL. REFER TO PANEL SCHEDULE FOR CIRCUIT DETAILS. <u>EH-01</u>: 3 kW. <u>EH-02</u>: 5 kW.
- PROVIDE FIRE ALARM CONTROL PANEL AND ASSOCIATED FIRE DETECTING DEVICES AND ALARMS AS INDICATED.
- 27mmC EMT CONDUIT FROM CONTROL PANEL TO WATER PUMP STARTERS TO CONTROL THEIR OPERATION. COORDINATE CONNECTION WITH MECHANICAL.

PROVIDE POWER FROM PANEL $\underline{DP-A}$ TO CONTROL PANEL $\underline{CP-01}$ PROVIDED BY DIVISION 23. PROVIDE TWO (2)

- PROVIDE TWO (2) VFD STARTERS COMPLETE WITH 50m OF 3 \times 3 AWG TECK CABLE FED FROM PANEL $\underline{DP-A}$ TO FEED WATER PUMPS $\underline{WP-01}$ AND $\underline{WP-02}$ AS INDICATED. COORDINATE CONNECTION WITH MECHANICAL. PROVIDE 100A FRAME DISCONNECTS IN MAIN PUMPING ROOM.
- PROVIDE HEAT TRACE CONTROLLERS AND 6 x 15A-208V RECEPTACLES TO MATCH THE HEAT TRACE CABLE'S PLUG. PROVIDE GFI BREAKERS ON ASSOCIATED CIRCUITS. REFER TO DETAIL 1/E2.
- PROVIDE POWER FROM PANEL $\underline{\mathsf{DP}}-\underline{\mathsf{A}}$ TO FUEL CONTROL PANEL $\underline{\mathsf{FCP}}-01$ AS INDICATED. TWO (2) FUEL TRANSFER PUMPS AND ONE (1) CONTROL PANEL PROVIDED BY DIVISION 23. FEED EACH PUMP WITH SEPARATE FEEDER FROM CONTROL PANEL IN LIQUID TIGHT FLEX CONDUIT. COORDINATE CONNECTIONS WITH DIVISION 23.
- PROVIDE 120V CIRCUIT TO LOW VOLTAGE TRANSFORMER FOR CONTROL CONNECTIONS PROVIDED BY DIVISION 23. COORDINATE CONNECTIONS WITH MECHANICAL.
- PROVIDE 120V CONNECTION FROM PANEL $\underline{DP-A}$ TO DAMPER MOTORS AS INDICATED. TYPICAL FOR ALL DAMPER MOTOR CONNECTIONS. MOTORIZED DAMPERS SUPPLIED AND INSTALLED BY DIVISION 23.
- PROVIDE ONE (1) 27mm RIGID PVC CONDUIT FOR CONTROL WIRING FROM FUEL CONTROL PANEL TO MAIN TANK AS

INDICATED. COÒRDINATE CONDUIT RUN TO BUNDLE WITH MECHANICAL AND STRUCTURAL DIVISION.

- PROVIDE ONE (1) 27mm EMT CONDUIT FOR CONTROL WIRING FROM FUEL CONTROL PANEL TO DAYTANK DT-01 AS INDICATED. COORDINATE CONDUIT RUN WITH MECHANICAL.
- PROVIDE PHOTOCELL AS INDICATED TO CONTROL TYPE B EXTERIOR LIGHTS.
- PROVIDE LIGHTING CONTROL CONTACTOR FOR OUTDOOR LIGHTING COMPLETE WITH HAND-OFF-AUTO CONTROL. CONNECT TO PHOTOCELL.
- PROVIDE UNISTRUT CHANNEL COMPLETE WITH TWO (2) 20A OUTLETS AND TWO (2) HP RATED TOGGLE SWITCHES AS INDICATED, TO POWER AND CONTROL THE OPERATION OF MIXER $\underline{\mathsf{MX}} = 01$ AND PUMP $\underline{\mathsf{TP}} = 01$ PROVIDED BY OTHERS. LABEL CIRCUITS ACCORDINGLY. COORDINATE LOCATION WITH WINDOW.
- PROVIDE ONE (1) STARTER COMPLETE WITH WIRE AND CONDUIT AS INDICATED, TO FEED DAMPERS MD-05 AND MD-06. CONNECT TO REMOTE SIGNAL PROVIDED BY DIVISION 23, INTERLOCKED TO ERV-01.
- PROVIDE EIGHT (8) CHANNEL AUTO-DIALER COMMUNICATION MODULE AS INDICATED INCLUDING SIGNAL WIRING IN 21mm CONDUIT, AND DRY CONTACTS TO DIAL OUT MAJOR ALARMS AS FOLLOWS: - ONE PAIR: 3 #14 TO SIGNAL GENERATOR ON
 - ONE PAIR: 3 #14 TO SIGNAL GENERATOR TROUBLE/FAILURE
 - ONE PAIR: 3 #14 TO SIGNAL LOW BUILDING TEMP - ONE PAIR: 3 #14 TO SIGNAL FIRE ALARM ACTIVATION
 - AUTO DIALER TO HAVE BATTERY BACK-UP-FOR 24 HOURS OF MONITORING
- PROVIDE 200A, 120/208V, 3ø, 4W ATS, COMPLETE WITH SWITCHABLE NEUTRAL.
- PROVIDE FIBREGLASS REINFORCED POLYESTER (FRP) BACKBOXES AND JUNCTION BOXES FOR ALL DEVICES INSTALLED INSIDE THE CHEMICAL ROOM. PROVIDE PVC CONDUIT FOR ALL CIRCUITS ENTERING THE CHEMICAL ROOM.
- PROVIDE SPLIT PARKING RECEPTACLE IN WEATHERPROOF ENCLOSURE ON EXTERIOR WALL OF BUILDING FOR MAINTENANCE STAFF.
- PROVIDE POWER FROM PANEL DP-A TO CHLORINE PUMP CONTROLLER CPC-01 AS INDICATED. FIVE (5) CHLORINE DOSING PUMPS AND ONE (1) CONTROL PANEL PROVIDED BY DIVISION 23. FEED EACH PUMP WITH SEPARATE FEEDER FROM CONTROL PANEL IN LIQUID TIGHT FLEX CONDUIT. COORDINATE CONNECTIONS WITH DIVISION 23.
- PROVIDE 8m OF RAYCHEM TYPE 3BTV1-CR HEAT TRACE CABLING WRAPPED AROUND THE TRUCK FILL ARM.
- CONTROL LIGHT FOR INDICATING SEWAGE TANKS FULL COORDINATE WITH CONTROLS DIVISION. SEE DRAWING M601.
- PROVIDE CIRCUIT FOR CONTROLS CONNECTION.



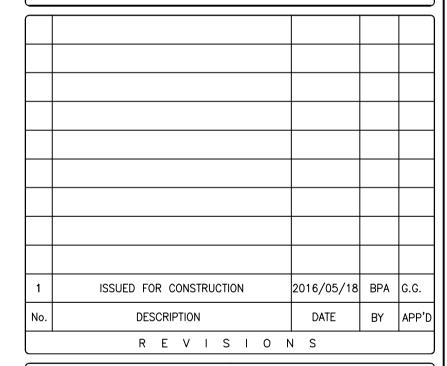
PERMIT TO PRACTICE BOUTHILL PARIZEAU INC.

Date: 2016-05-18

PERMIT NUMBER: P717 NWT/NU Association of Professional **Engineers and Geoscientists**



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GOVERNMENT OF NUNAVUT DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES

REPULSE BAY, NUNAVUT NEW PUMPING STATION

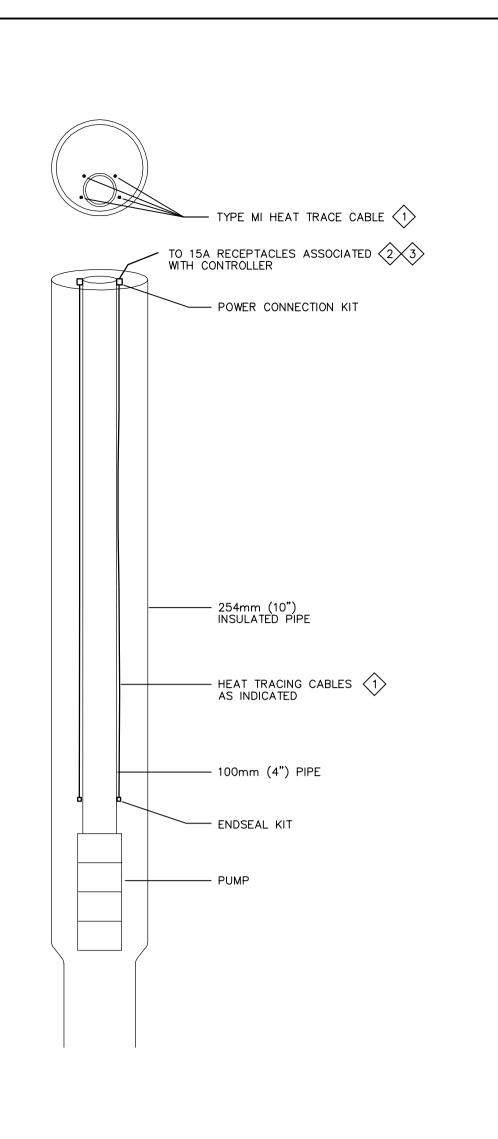
ELECTRICAL NEW POWER AND LIGHTING LAYOUT

A.WADDELL project no. 8012-099 drawn by M.STEVENSON drawing no. checked by G.GODIN DECEMBER 2013

AS SHOWN

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SCALE 1:50



HEAT TRACE CABLE DETAIL
N.T.S.

G: \2012\8012\8012-099\WBBP\Elec\8012-099_E2_R00.dwg

			MOT	OR RACTER	ISTICS						NUAL RTER	MA	GNE	TIC	STA	ARTE	RS	Į L	REI	МОТ	E CC	NTR.		
MOTOR NO.	SERVICE DESCRIPTION	MOTOR LOCATION	H.P.	F.L.A.	VOLT	PH.	SOURCE	FEEDER	MOTOR BREAKER SIZE	TOGGLE	PUSH BUTTON PILOT LTG.	COMBINATION BREAKER TYPE	CONTROL TRANSFOR.	AUX.CONT. 2 N.O., N.C.	<u> </u>	ol I	RUN	-	STOP/START L.O.S.	INTERLOCK TO PILOT LTG.	DISC. AT MOTOR	F.A. SMOKE CONTROL LEGEND	INTERLOCK TO:	REMARKS
<u>WP-01</u>	WATER PUMP 01	PUMP RM	20	59.4	208V	3Ø	BP-A	3 #3 + 6GRD	80A-3P				1	•			•				•			VFD WITH INTERNAL BYPASS
<u>WP-02</u>	WATER PUMP 02	PUMP RM	20	59.4	208V	3Ø	BP-A	3 #3 + 6GRD	80A-3P					•			•				•			VFD WITH INTERNAL BYPASS
<u>TP-01</u>	TRANSFER PUMP 01	PUMP RM	0.5	-	120V	1Ø	BP-A	2 #12 + 14GRD	15A-1P	•	•										•			
<u>MX-01</u>	CHEMICAL MIXER 01	CHEM RM	0.05	-	120V	1Ø	BP-A	2 #12 + 14GRD	15A-1P	•	•										•			
<u>SP-01</u>	SUMP PUMP 01	PUMP RM	0.5	-	120V	1Ø	BP-A	2 #12 + 14GRD		•	•										•			
<u>SP-02</u>	SUMP PUMP 02	CHEM RM	0.4	-	120V	1Ø	BP-A	2 #12 + 14GRD		•	•										•			
<u>DWP-01</u>	DOMESTIC WATER PUMP	PUMP RM	-	0.9	120V	1Ø	BP-A	2 #12 + 14GRD		•	•							Ш			•			
ERV-01	ENERGY RECOVERY VENT.	PUMP RM	0.5	-	120V	1Ø	BP-A	2 #12 + 14GRD		•	•										•			
<u>WH-01</u>	HOT WATER TANK 01	CHEM RM	1.5kW	-	120V	1Ø	BP-A	2 #12 + 14GRD		•	•							Ш			•			
<u>UH-01</u>	UNIT HEATER 01	PUMP RM	0.25	-	120V	1Ø	BP-A	2 #12 + 14GRD		•	•							Ш			•			
<u>EH-01</u>	ELECTRIC HEATER 01	GEN RM	3kW	-	208V	3Ø	BP-A	3 #12 + 14GRD		•	•							\coprod			•			
<u>EH-02</u>	ELECTRIC HEATER 02	CHEM RM	3kW	-	208V	3Ø	BP-A	3 #12 + 14GRD		•	•							Ш			•			
<u>DH-01</u>	DUCT HEATER 01	PUMP RM	3kW	-	208V	3Ø	BP-A	3 #12 + 14GRD		•	•							Ш			•			
<u>VF-01</u>	VENTILATION FAN 01	CHEM RM	-	-	120V	1Ø	BP-A	2 #12 + 14GRD		•	•										•			

- PROVIDE 4 HDPE COATED MINERAL INSULATED HEAT TRACE CABLES. PENTAIR D/32HD3300/170/845/208/20/Y/N12. PROVIDE PROPER SUPPORT AS PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE TWO 920 CONTROLLERS WITH SUPPLY MODULES TO SUPPORT UP TO 3 MI HEAT TRACE CABLES AT ONE TIME. CONNECT CONTROLLERS TO THREE FEMALE 15A TWIST LOCK RECEPTACLES. THE CONTROLLERS ARE TO BE ABLE TO ANNUNCIATE AN ALARM IN THE EVENT OF A CABLE FAULT.
- PROVIDE TWO RTD THERMISTORS TO BE INSTALLED 40M DOWN THE PIPE. THERMISTORS ARE TO BE TIED INTO THE CONTROLLER.
- PROVIDE A BOND CONDUCTOR BETWEEN THE NEUTRAL CONDUCTOR AND GROUND AT THE GENERATOR.



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Date: 2016-05-18 PERMIT NUMBER: P717 NWT/NU Association of Professional

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_				
1	ISSUED FOR CONSTRUCTION	2016/05/18	BPA	G.G.
No.	DESCRIPTION	DATE	BY	APP'D
	REVISION	I S		

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GOVERNMENT OF NUNAVUT DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES

REPULSE BAY, NUNAVUT NEW PUMPING STATION

ELECTRICAL SINGLE LINE DIAGRAM, SCHEDULES AND DETAILS

	A. WADDELL	8012=098
у	M.STEVENSON	drawing no.
l by	G.GODIN	F2
	DECEMBER 2013	
	AS SHOWN	

\mathcal{L}	2	\sum	MOTOR	SCHEDULE
	E2	J		N.T.S.

PANEL DESIGNATION NUMBER OF POLES SYSTEM VOLTAGE MAINS CAPACITY MAINS BREAKER	DP-A 60 120/208V 3PH 225A 200A	H, 4W					MOUNTING	CATION ELECT. RM. SURFACE CUIT CAPACITY: 10kA
DESCRIPTION	LOAD	BRKR AMP POLE	CCT NO.	PHASE	CCT NO.	BRKR AMP POLE	LOAD	DESCRIPTION
GENERATOR ROOM LIGHTING		20A 1P	1	Α	2	15A 1P		OUTLETS GENERATOR ROOM
PUMP ROOM LIGHTING		20A 1P	3	В	4	15A 1P		OUTLETS PUMP ROOM
EXTERIOR LIGHTING		15A 1P	5	С	6	15A 1P		EXTERIOR GFI OUTLETS
MOTORIZED DAMPERS		15A 1P	7	Α	8	15A 1P		SUMP PUMP SP-01
BATTERY CHARGER		15A 1P	9	В	10	15A 1P		UNIT HEATER UH-01
GENERATOR BLOCK HEATER		15A 1P	11	С	12	15A 1P		EMERGENCY EBU-1
CONTROL PANEL CP-01		15A 1P	13	Α	14	15A 1P		EXIT LIGHTING
FUEL CONTROLLER FPC-01		15A 1P	15	В	16	15A 1P		MOTORIZED DAMPERS
FIRE ALARM PANEL		15A 1P	17	С	18	15A 1P		DOMESTIC WATER PUMP DWP-01
AUTO-DIALER		15A 1P	19	Α	20	15A 1P		MOTORIZED DAMPERS
ENERGY RECOVERY ERV-1		15A 1P	21	В	22	20A 1P		ELECTRIC MIXER MX-01
HOT WATER TANK WH-01		15A 1P	23	С	24	20A 1P		TRANSFER PUMP TP-01
ELECTRIC HEATER <u>EH-01</u>		15A 3P	25	Α	26	15A 1P		THERMOSTAT & CONTROLS
		* *	27	В	28	15A 1P		EXTERIOR WATER ARM LIGHT
		* *	29	С	30	15A 1P		FLOW METER
TVSS UNIT		40A 3P	31	Α	32	30A 3P		ELECTRIC HEATER <u>EH-02</u>
		* *	33	В	34	* *		
		* *	35	С	36	* *		
HEAT TRACE FOR WP-01 (GFI)		30A 2P	37	Α	38	30A 2P		HEAT TRACE FOR WP-02 (GFI)
			39	В	40			
BATTERY CHARGER		15A 1P	41	C	42	15A 1P		HEAT TRACE TRUCK FILL (GFI)
WATER PUMP WP-01		80A 3P	43	A	44	80A 3P		WATER PUMP WP-02
		* *	45 47	В	46 48	* *		
		15A 3P	47	C A	48 50	15A 2P		EXTERIOR VEHICLE OUTLET
DUCT HEATER <u>DH-01</u>		* *	51	B	52	15A ZP		EXTERIOR VEHICLE OUTLET
		* *	53	C	54	15A 1P		MOTORIZED DAMPERS
VENTILATION FAN VF-01		15A 1P	55	A	56	15A 1P		CHLORINE CONTROLLER CPC
SUMP PUMP SP-02		15A 1P	57	В	58	15A 1P		CP-02
UH-01 FUEL PUMP FP-03		15A 1P	59	C	60	15A 1P		SPARE
SPARE		15A 1P	61	A	62	15A 1P		SPARE
SPARE		15A 1P	63	В	64	15A 1P		SPARE
SPARE		15A 1P	65	C	66	15A 1P	1	SPARE
SPARE		15A 1P	67	A	68	15A 1P		SPARE
SPARE		15A 1P	69	В	70	15A 1P		SPARE
SPARE		15A 1P	71	C	72	15A 1P		SPARE
SPARE		15A 1P	73	A	74	15A 1P	1	SPARE
SPARE		15A 1P	75	В	76	15A 1P		SPARE
SPARE		15A 1P	77	C	78	15A 1P		SPARE
SPARE		15A 1P	79	A	80	15A 1P		SPARE
		20A 2P	81	В	82	20A 2P	 	SPARE

(3)	PANEL SCHEDULE
E2 /	N.T.S.

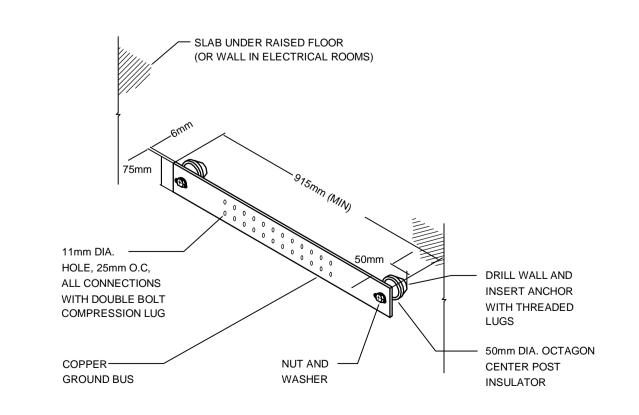
TOTAL AREA...... 60m2 DESCRIPTION WATTS GENERAL RECEPTACLES AND LIGHTING (25W/m2) 1500 WATER PUMPS (1 @ 20HP = 15000Watts/ea.) 15000 TRANSFER PUMP (1 @ 0.5HP) 400 DOMESTIC WATER PUMP 400 400 ENERGY RECOVERY UNIT (1 @ 0.5HP) HOT WATER TANK 1500 ELECTRIC HEATER (x3) 11000 HEAT TRACE (x2) 10000 40200

TOTAL WATTS

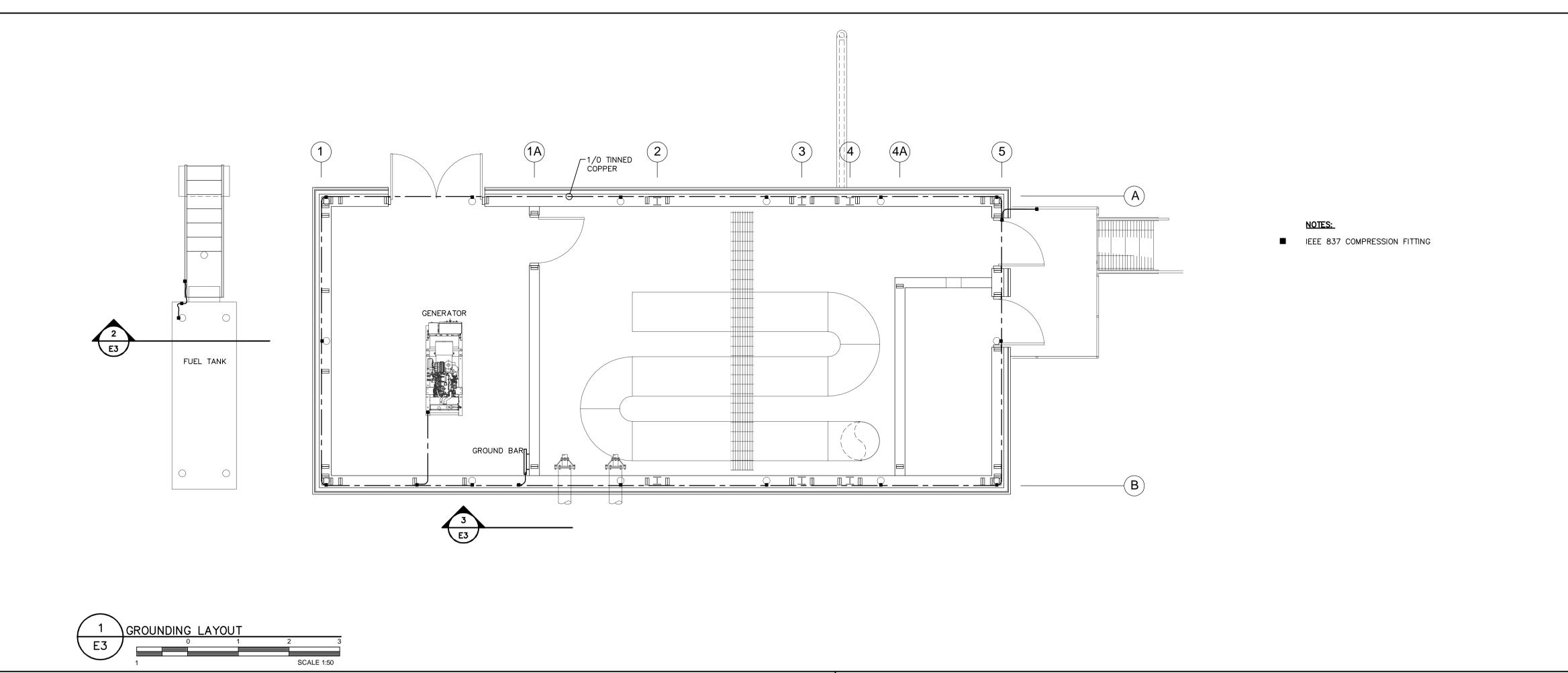
LOAD SUMMARY N.T.S.

PUMP STATION LOAD SUMMARY

INCOMING OVERHEAD SERVICE 120/208V, 3ø, 4W	M #3/0 IN 53mm0 WALL MOUNTED METER	1 #4 COPPER CONDUCTOR NEW GROUND BUS BAR -4 #3/0 + #4 GNE IN 63mmC 200A-3P MAIN BREAKER SERVICE ENTRANCE RATED FOR 120/208V, 3ø	E/S 4 #8 + #10 GI		PS-01 208V 3ø, 3W VFD VFD PS-02 208V 3ø, 3W	3C #3 + 1 #6 GND + 27mmC DC-02 100A 208V 3ø, 3W DC-02 100A 208V 3ø, 3W DC-02 100A 208V 3ø, 3W DC-02 100A 208V 3ø, 3W DC-03 100A 208V 3ø, 3W DC-03 100A 208V 3ø, 3W
	200A-3P BREAKER ON GENSET G1 EMERGENCY GENERATOR 50kW/60kVA 120/208V, 3ø 4W		ATS-1 TRANSFER SWITCH 200A-3P FOR 120/208V, 3ø, 4W	TVSS 225A, 120/208V 3ø, 4W		



GROUND BUS DETAIL





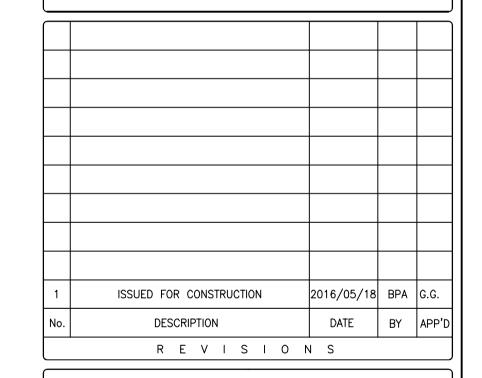
BOUTHILLETTE PARIZEAU INC.

Date: 2016-05-18 PERMIT NUMBER: P717

NWT/NU Association of Professional Engineers and Geoscientists



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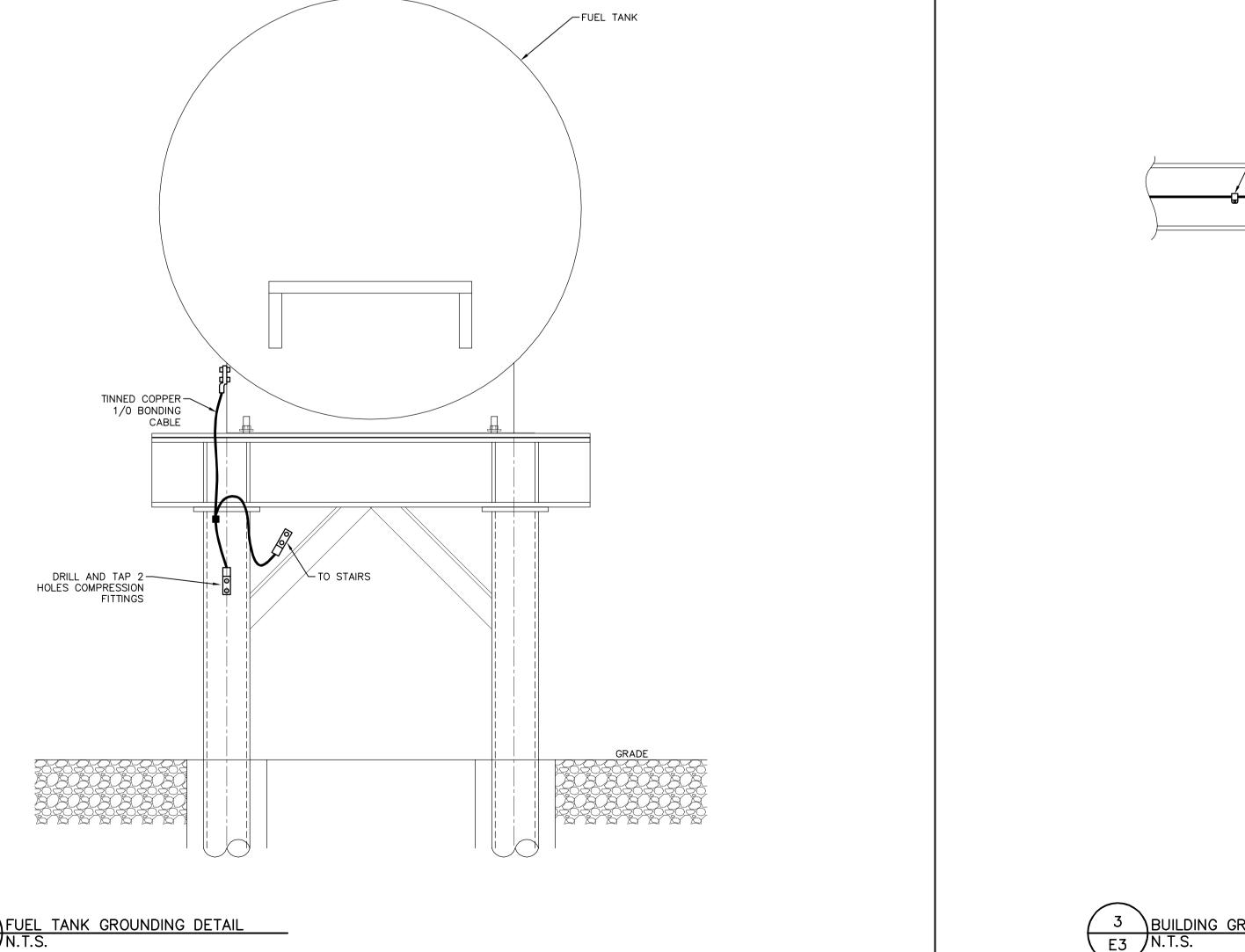


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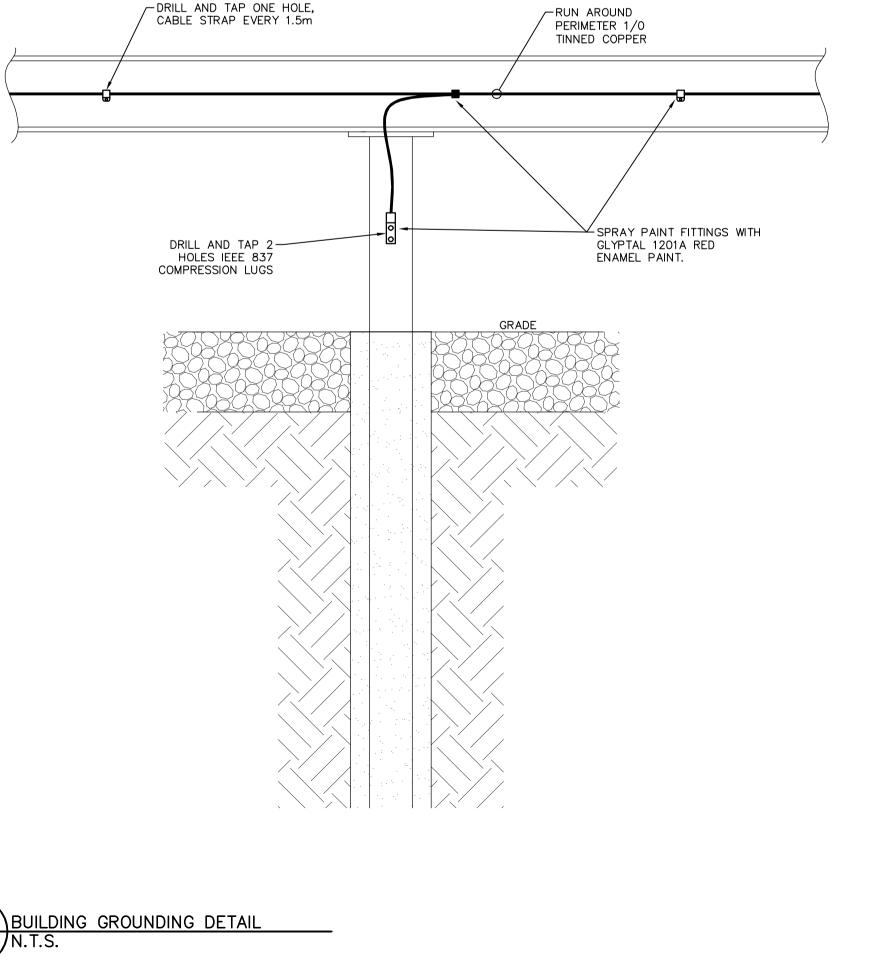
REPULSE BAY, NUNAVUT NEW PUMPING STATION

ELECTRICAL GROUNDING LAYOUT AND DETAILS

project no. 8012-099 drawing no. M.STEVENSON G.GODIN DECEMBER 2013 AS SHOWN



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3 BUILDING GROUNDING DETAIL

DRILL AND TAP ONE HOLE, CABLE STRAP EVERY 1.5m