AREA METHOD CALCULATION: FROM TBL 14: 25W/m² $AREA = 48m^2$ BASIC LOAD: 25 X 48 = 1,200W ADDITIONAL LOADS: ELECTRIC SPACE HEATING 2,000W X 3 X %100= 6,000W 5.592.7W X 2 X \$100= 11.185.4W BP-1 & BP-2 OTP-1 & OTP-2 186.4W X 2 X %100= 372.8W TOTAL LOADING = 18,758.2W MINIMUM SERIVCE AMPACITY: 18,785.2W / (208V X 1.732) = 52.1A

 $52.1A \times 2125 = 65.1A$

4W, 100A SERIVCE

Building Exterior

englosed arguit

TRANSFORMER

TRUCK FILL

CONTROLS

HEATER RECEPTACLE

CONTROL

TRANSFORMER

39, 120/208V,

4W, 100A SERIVCE IN

63mm RIGID STEEL CONDUIT & TEL IN 27mm E.M.T. CONDUIT

MOUNTED 300mm

ABOVE GROUND

100A METER

SOCKET ON

3P-100AMP

BREAKER

PANEL: "C"

GENERATOR RM 120/208			3	4	225A NOME			10,000 AMP			24	SURFACE		EXISTIN	G					
NOTE	S: PROV	MDE B	reakers indicated as "New".			-					- -		-				•			
LC)ADS(kV	'A)	DESCRIP	OTION!		POLE	AMP	CCT.		ø	CCT.	AMP	POLE		DESCRIPTION			LOADS(kVA)		
A	8	С	DESGNIF	IIVI		- TOLL	Petal	No.	A	B C	No.	T PREST	1000		. UESUN	IT IIVAY		A	В	C
			FUEL OIL PUMPS		-	1	15	1	•		2		3	SUBMERS	BLE SERVICE PUM	PS				
-			EMERGENCY LIGHTING			1	15	3			4			SUBMERS	BLE SERVICE PUMI	PS				
			LIGHTING	-		1	15	5	\blacksquare		6	40		SUBMERS	BLE SERVICE PUMI	' S				
-		-	CHLORINE INJECTOR PUMP			1	15	7	-		8	15	1	INDICATOR	PANEL TRANSFOR	NER .				1
			DAMPER MOTORS , NEW GENE	RATORS		1	15	9	-	+	10	15	1.	WATER ME	TER					T
			RECEPTACLES	-		1	15	. 11	-	-	12	15	1	Drain va	LVE TRANSFORMER		330			
			CONTROL PANEL	1.3		2		13	-		14	15	1	-						Т
			CONTROL PANEL				15	15	 	•	16	15	1	-		-				
			BLOCK HEATER, NEW GENERA	ATORS		1	15	17	H		18			-						
			BATTERY CHARGER , NEW GEN	NERATOR:	S	1	15	19	•		20			-		· ·			-	<u> </u>
			DAMPER CONTROLS , NEW GE	NERATOR	S	1	15	21	\vdash		22		2	UNLABELL	ED	7-100				1
				-				23		-	24	20		UNLABELL	ED ED					T

CIRCUITS

MOUNTING

FEEDER

LOCATION VOLTAGE PHASE WIRE MAIN MAIN BKR. INT. CAP.(RMS SYM.)

PANEL: "D"		LOCATION VOLTAGE		PHASE	WRE	MAIN	4	MAN	BKR		NT. C	AP.(RMS	S SYM.)	CIRCUITS	MOUNTING	-	FEED	R			
Γ/	FANLL. D		GENERATOR RM 120/208		3	4	225A		NONE			10,000 AMP		MP	24	SURFACE		EXISTING			
NOTE	S: PRO	WIDE B	reakers indicated a	s "New".							-	-	-								
LO	ADS(k)	/A)		DESCRIPTION		POLE	AMP	CCT.		9		CCT.	AMP	POLE	. :.	DESCR	EDTION		LO	ADS(k	VA)
A	В	С		UESANIP INN		FULL	ran -	No.	A	В	c	No.		FVL	·	UESUN	FIUN		Α	В	С
			GEN ROOM INFRARE) HEATER		2		1	+		$+ \mathbb{I}$	2	15	1	HEAT TRAC	Σ		-		-	
			GEN ROOM INFRARE) HEATER			15	3	\top	•	+1	4	15	1	HEAT TRAC	Σ		Will the second		:	
			PUMP ROOM INFRAR	ED HEATER		2		5	+		+	6			-			-	CONCURRENCE		
			PUMP ROOM INFRAR	ED HEATER			15	7	+		+	8			-						
			PUMP ROOM INFRAR	ED HEATER	-	2		9	Ŧ	•	+	10							No management of the contract		
			PUMP ROOM INFRAR	ED HEATER			15	11	Ŧ		+	12	·		-		-				
			AUTO DIALER		-	1	15	13	-	-	\mp	14			-						
			LOW BUILDING TEMP	ERATURE THERMOS	TAT (NEW)	1	15	15	7	-	∓ 1	16			-						
-			SPARE			1	15	17	+		+	18			-						
			-					19	-			20		3	OUTSIDE P	LUG FOR SUBMER	SIBLE PUMP				
			-	-				21	+	•	\Box	22			OUTSIDE P	LUG FOR SUBMER	SIBLE PUMP				
			-		-			23	+		+	24	50		OUTSIDE P	LUG FOR SUBMER	SIBLE PUMP				

SECTION 1.0 GENERAL REQUIREMENTS

1.1.0 GENERAL

- 1.1.1 THE GENERAL CONDITIONS AND INSTRUCTIONS TO BIDDERS AS SET FORTH IN THE GENERAL CONTRACT SPECIFICATIONS AND ALL ADDENDA THERETO SHALL APPLY TO, AND GOVERN ALL PORTIONS OF THE ELECTRICAL WORK.
- 1.1.2 POINTS NOT SPECIFICALLY MENTIONED SHALL BE IN STRICT ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE (C22.1-02) AND REGULATIONS OF THE ELECTRICAL INSPECTION DEPARTMENT FROM WHICH THE PERMIT WAS OBTAINED. THE LATEST REVISIONS AND/OR AMENDMENTS TO THIS CODE, WITH APPLICABLE DATE RESTRICTIONS, SHALL ALSO GOVERN WORK ON THIS CONTRACT.
- 1.1.3 IT IS THE INTENT THAT THESE DRAWINGS AND SPECIFICATIONS PROVIDE FOR AN ELECTRICAL INSTALLATION COMPLETE AND IN OPERATING CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL MATERIAL NECESSARY TO ACCOMPLISH THIS, EXCEPT WHERE SPECIFICALLY NOTED THAT SUCH WORK OR MATERIAL IS
- 1.1.4 WHERE THE WORDS "FURNISH", "PROVIDE", OR "INSTALL" APPEAR IN THIS DIVISION, OR A MANUFACTURER IS INDICATED WITH ITEM OR PRODUCT CATALOG NUMBER LISTED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FURNISH AND INSTALL THE ITEM COMPLETE AND OPERATING FOR THE PURPOSE OR FUNCTION INTENDED, UNLESS NOTED OTHERWISE.

1.20 <u>Codes. Permits and inspections</u>

- 1.2.1 THE INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE CANADIAN ELECTRICAL CODE AND THE REGULATIONS OF THE ELECTRICAL INSPECTION DEPARTMENT HAVING JURISDICTION.
- 1.2.2 THE ELECTRICAL TRADE SHALL OBTAIN ALL ELECTRICAL PERMITS REQUIRED AND, AFTER COMPLETION OF THE WORK, SHALL FURNISH TO THE ARCHITECT A CERTIFICATE OF FINAL INSPECTION AND APPROVAL FROM THE INSPECTION . department. Electrical trade shall obtain all permits at the beginning of the work.
- 1.2.3 THE ELECTRICAL CONTRACTOR SHALL SUBMIT TWO (2) SETS OF DRAWINGS TO THE ELECTRICAL INSPECTION DEPARTMENT AND SHALL INCLUDE ALL COSTS FOR PRINTS, SURVEYS, ETC. IN THIS TENDER.

1.3.0 STANDARD OF MATERIAL AND WORKMANSHIP

- 1.3.1 ALL MATERIALS SUPPLIED BY THE CONTRACTOR SHALL BE NEW AND OF THE QUALITY SPECIFIED. ALL SUCH MATERIAL SHALL CONFORM TO THE STANDARDS OF THE CANADIAN STANDARDS ASSOCIATION AND SHALL BEAR THE NECESSARY CSA LABEL. FOR ANY MATERIAL NOT CSA APPROVED, THIS CONTRACTOR SHALL OBTAIN THE APPROVAL OF THE LOCAL inspection authority and shall bear all inspection charges levied and any modification costs required.
- 1.3.2 ALL PHASES OF THE ELECTRICAL INSTALLATION SHALL BE EXECUTED IN A SATISFACTORY, WORKMANLIKE MANNER AND SHALL PRESENT A NEAT, MECHANICAL APPEARANCE WHEN COMPLETED, WORK NOT DEEMED SATISFACTORY TO THE ENGINEER SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- 1.3.3 THE CONTRACTOR SHALL KEEP ON THE JOB DURING ITS PROGRESS, A COMPETENT FOREMAN AND NECESSARY QUALIFIED Tradesmen, all satisfactory to the engineer. The foreman shall represent the contractor in his ABSENCE, AND ALL DIRECTIONS GIVEN TO THE FOREMAN SHALL BE HELD AS BEING GIVEN TO THE CONTRACTOR. THE CONTRACTOR SHALL GIVE EFFICIENT SUPERVISION TO THE WORK, USING HIS BEST SKILL AND ATTENTION.

1.4.0 SETTING OUT OF THE WORK

- 1.4.1 THE ELECTRICAL TRADE SHALL BE RESPONSIBLE FOR CORRECTING ALL WORK COMPLETED CONTRARY TO THE INTENT OF THE DRAWINGS AND SPECIFICATIONS AND SHALL BEAR ALL COSTS FOR SAME. WHERE THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS NOT CLEAR, THE CONTRACTOR SHALL OBTAIN A CLARIFICATION FROM THE ENGINEER BEFORE
- 1.4.2 THE ELECTRICAL TRADE SHALL GIVE THE WORK HIS PERSONAL SUPERVISION, LAY OUT HIS OWN WORK, DO ALL NECESSARY LEVELING AND MEASURING OR EMPLOY A COMPETENT ENGINEER TO DO SO. FIGURES, FULL—SIZE DRAWINGS AND DETAILS SHALL TAKE PRECEDENCE OVER SCALE MEASUREMENTS.
- 1.4.3 WHERE ANY EQUIPMENT SUPPLIED BY THE ELECTRICAL TRADE MUST BE BUILT-IN WITH WORK OF OTHER CONTRACTORS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPLYING OF THE EQUIPMENT TO BE BUILT—IN OR MEASUREMENTS TO ALLOW NECESSARY OPENINGS TO BE LEFT SO AS NOT TO HOLD UP THE WORK.
- 1.4.4 THE ELECTRICAL TRADE, IN SETTING OUT OF HIS WORK, SHALL MAKE REFERENCE TO ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS. HE SHALL CONSULT WITH THE RESPECTIVE TRADES IN SETTING OUT LOCATIONS FOR CONDUIT RUNS, LIGHTING FIXTURES, PANEL ASSEMBLIES, ETC., SO THAT CONFLICTS ARE AVOIDED AND SYMMETRICAL EVEN SPACING IS MAINTAINED.
- 1.4.5 BEFORE SUBMITTING TENDER, CAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK SO AS TO ASCERTAIN ALL EXISTING CONDITIONS AFFECTING THE WORK. NO EXTRAS WILL BE ALLOWED FOR WORK NECESSITATED BY CONDITIONS
- 1.4.6 Upon instruction from the engineer, and prior to original installation, outlets may be relocated up to 3m From Location Shown on Drawings, at no additional cost.

- 1.5.1 NO SUBSTITUTION WILL BE ALLOWED UNLESS WRITTEN ACCEPTANCE HAS BEEN OBTAINED FROM THE ENGINEER PRIOR TO TENDER CLOSING.
- 1.6.0 SHOP DRAWINGS
- 1.6.1 SUBMIT SETS OF MANUFACTURER'S DETAILED SHOP DRAWINGS (NUMBER OF SETS = 4), SPECIFICATIONS, DATA SHE Catalog cuts, etc., for equipment including but not limited to: distribution equipment or as may be CONSIDERED NECESSARY BY THE ENGINEER.

1.7.0 RECORD DRAWINGS

- 1.7.1 THE ENGINEER WILL FURNISH ONE SET OF BLUEPRINTS TO BE USED TO RECORD WORK AS ACTUALLY INSTALLED.
- 1.8.0 GUARANTEE /WARRANTY
- 1.8.1 THE ELECTRICAL TRADE SHALL FURNISH A WRITTEN GUARANTEE/WARRANTY COUNTERSIGNED AND GUARANTEED BY THE GENERAL CONTRACTOR, STATING:
- .1 THAT ALL WORK EXECUTED UNDER THIS CONTRACT WILL BE FREE FROM DEFECTS OF WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL PERFORMANCE OF THIS WORK. .2 THE ABOVE PARTIES FURTHER AGREE TO. AT THEIR OWN EXPENSE, REPAIR AND REPLACE ALL SUCH DEFECTIVE WORK AND OTHER WORK DAMAGED THEREBY WHICH FAILS OR BECOMES DEFECTIVE DURING THE TERM OF THE GUARANTEE/WARRANTY, PROVIDED THAT SUCH FAILURE IS NOT DUE TO IMPROPER USAGE. .3 THE PERIOD OF THE GUARANTEE SPECIFIED SHALL IN NO WAY SUPPLANT ANY OTHER GUARANTEE OF A LONGER PERIOD BUT SHALL BE BINDING ON WORK NOT OTHERWISE COVERED.

PLAN REVIEW INFO

- NAME AND MAILING ADDRESS OF OWNER:
- 2. LOCATION OF BUILDING, EITHER THE STREET ADDRESS OR THE LEGAL ADDRESS:
- 3. NAME AND MAILING ADDRESS THE PLAN REVIEW FEES ARE TO BE INVOICED TO:

CONTRACTOR TO ENSURE ALL OF ABOVE IS FILLED OUT IN FULL BEFORE SUBMITTAL TO GN C&GS SAFETY FOR PLAN REVIEW

SECTION 2.0 WORK AND MATERIALS

- 2.1.0 <u>DEMOLITION AND PHASING</u>
- 2.1.1 COORDINATE SHUTDOWN OF THE EXISTING POWER SERVICE, WHEN NEEDED WITH OWNER. SHUTDOWN TIMES AND DURATION to be kept to a minimum and to be to owner's requirements.
- 2.1.2 RE—ROUTE OR PROTECT EXISTING REMAINING CONDUIT ENTERING CONSTRUCTION AREA, REPAIR IF DAMAGED.
- 2.1.3 BE RESPONSIBLE FOR ALL REPAIRS AND PATCHING OF EXISTING FLOORS, WALLS AND CEILINGS DAMAGED BY ELECTRICAL
- INSTALLATION. COORDINATE CUTTING AND PATCHING WITH RELATED SUB-TRADES. 2.1.4 REMOVE ALL EXISTING DEVICES, WHICH INTERFERE WITH RENOVATIONS AND AS SHOWN ON DRAWINGS.
- 2.1.5 BLANK-OFF OUTLET BOXES OF ALL REMOVED ELECTRICAL DEVICES WITH APPROPRIATE COVER PLATES.
- 2.1.6 DO NOT RE-USE EXISTING REMOVED RECEPTACLES AND WIRING WITHOUT PRIOR APPROVAL FROM ENGINEER. 2.1.7 ENSURE CIRCUIT CONTINUITY OF ALL OUTLETS WHICH ARE REMAINING, WHERE A DEVICE TO BE REMOVED CONTAINS WIRING WHICH FEEDS A DOWNSTREAM OUTLET NOT TO BE REMOVED. THE WIRING IS TO BE MADE CONTINUOUS AND
- 2.1.8 REMOVE FROM SITE ALL UNUSED EXISTING DEVICES, WIRING, CONDUIT, ETC., WHICH THE OWNER DOES NOT WISH TO
- retain. Obtain notice in writing from the owner to this effect,
- 2.1.9 KEEP ALL EXISTING SYSTEMS NOT AFFECTED BY THE RENOVATION INTACT AND OPERATIONAL.
- 2.2.0 CONDUIT AND DUCT
- 2.2.1 INTERIOR METAL RACEWAYS TO BE GALVANIZED RIGID STEEL.
- 2.2.2 PROVIDE PULL WIRE IN ALL EMPTY CONDUITS.
- 2.3.0 BRANCH CIRCUIT WIRING
- 2.3.1 BRANCH CIRCUIT WIRING TO BE COPPER, 600 VOLT, MINIMUM #12 AWG RW90. NO ALLMINUM WIRING WILL BE PERMITTED. NOTE THAT WHENEVER WIRE SIZES ARE NOT SHOWN ON THE DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE CONDUCTORS COMPLY WITH C.E.C. SECTION 8 AND THE CORRESPONDING VOLTAGE DROP TABLES.
- 2.4.0 WIRING FOR MECHANICAL TRADE
- 2.4.1 ALL WIRING FOR THE MECHANICAL TRADE TO BE BY THE ELECTRICAL CONTRACTOR. PROVIDE WIRING AS SHOWN. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF DEVICES.
- 2.5.0 POWER & TELEPHONE SERVICE
- 2.5.1 PROVIDE COMPLETE INSTALLATION FOR POWER & TELEPHONE SERVICE AS INDICATED ON DRAWINGS. UTILITY SERVICE CHARGES TO BE COVERED BY CASH ALLOWANCE AMOUNTS.
- 2.6.0 GROUNDING & BONDING

2.6.1 PROVIDE ALL NECESSARY GROUNDING AS PER THE LATEST C.E.C. REQUIREMENTS.

- 2.7.0 AUTODIALER
- 2.7.1 PROVIDE AND INSTALL A VOICE DIALER COMPLETE WITH 4 INPUT CHANNELS, ON SITE PROGRAMMING, REDIAL DELAY FUNCTION, REMOVABLE PROGRAMMER, BATTERY BACKUP, REMOTE TEST CAPABILITY, CALL PROGRESS & PAGER
- 2.7.2 INSTALL EQUIPMENT AS INDICATED AND IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. INTERCONNECT SYSTEM COMPONENTS, INCLUDING CONNECTIONS TO GENSET INDICATOR PANEL.
- 2.7.3 CONDUCT PERFORMANCE TEST IN CONJUNCTION WITH TELEPONE AND GENSET INDICATOR PANEL.
- 2.8.0 <u>Final</u>
- 2.8.1 These drawings and specifications are to be read in conjunction with the architectural and mechanical DOCUMENTS AND WHAT IS CALLED FOR IN ONE AND/OR ANOTHER SHALL BE BINDING ON THIS CONTRACT.
- 2.9.0 GENERATOR UNIT SUPPLY AND INSTALL (OPTION)
- 2.9.1 PROVIDE OPTION PRICING FOR SUPPLY AND INSTALLATION OF A REPLACEMENT GENERATOR SET. KOHLER MODEL # 20REOZJ, 120/208V, 3PH, 60Hz, 26.00kW / 33.00 kVA, pf 0.8, SERVICE DUTY: STANDBY. ASSUME EXISTING Batteriès, Battery Chargers, and Transfer Switch of Generator to be replaced are fully functional and TO REMAIN IN USE. GENERATOR TO BE REPLACED TO BE DETERMINED.

KEYNOTES:

- NEW 35mm POWER CONDUIT TO ENTER BUILDING THROUGH NORTH WALL OF GENERATOR ROOM. SURFACE RUN AT HIGH LEVEL (ABOVE DOOR) INSIDE GENERATOR ROOM TO FUTURE LOCATION OF TRANSFE
- 2 ALARM SIGNAL FROM GENSET INDICATION PANEL. ASSUME EXISTING PANEL HAS OUTPUT SIGNALS FOR HIGH/LOW FUEL LEVEL, OR GENSE FAILURE. ALARM ON LOW BUILDING TEMPERATURE FROM THERMOST (SETPOINT OF -10).
- CLEAN DEBRIS FROM INSIDE RESERVOIR #2 DISCONNECT AND TRANSFER SWITCH #2 DEVICES. SECURE CONTACTORS IN RESERVOIR #1 & #2 DISCONNECTS TO BACKPLATES.
- PROVIDE CONNECTION TO GENSET INDICATION PANEL FROM A NEW 500VA RATED 24V TRANSFORMER, FED FROM NEW 15 AMP BREAKER ON CIRCUIT C-12 VIA 2#12 IN 16mm CONDUIT.

H OVE	-	LIST	OF WATER TRUCK FILL STATION NEW ELECTRICAL EQUIPMENT
FER	NO.	QTY.	DESCRIPTION
ING NSET ISTAT	1	1	63mm POWER SERVICE ENTRANCE CAP AS PER NPC REQUIREMENTS
STAT	2	1	27mm TELEPHONE SERVICE ENTRANCE CAP AS PER NWTEL REQUIREMENTS
VOIR	3	.1	METER SOCKET OUTDOOR TYPE 100 AMP, 208V, 3ph, 4 WIRE AND AS PER LOCAL REQUIREMENTS. METER BY UTILITY CO.
W Ker	4	1	TOTALLY ENCLOSED MAIN BREAKER, 3 POLE, 100AMP, CUTLER-HAMMER CAT. # WGDN100 WEATHER RESISTANT (NEMA 4) ENCLOSURE, FREEZE TESTED, SUITABLE FOR -40 C CONDITION. OBTAIN SPECIAL PERMISSION FROM LOCAL AUTHORITIES AS FREEZE TESTED NOT CSA CERTIFIED.
	5	1	CUTLER-HAMMER WALL MOUNT AUTOMATIC TRANSFER SWITCH 100A, 3ø, 120/208V CAT.# AT-H-M-F-A-3-0100-BJ-C
	6	1	PARAVOX VD710 VOICE DIALER MODULE
	7	2	7.5HP, 3ph, 208V SUBMERSIBLE PUMP BY OTHERS (TO UTILIZE EXISTING TWISTLOCK CONNECTIONS)
	8	2	TRANSFORMER, 500 VA, 120V: 24V.
	9	1	THERMOSTAT: HONEYWELL T631C1103 -34C TO +38C, FOR BUILDING LOW TEMP ALARM.

	1	ELECT	RICAL SYMBOL LEGEND
	-	DESCRIPTORS:	R1 = ORIGINAL LOCATION OF DEVICE TO BE RELOCATED R2 = FINAL LOCATION OF RELOCATED DEVICE RM = DEVICE TO BE REMOVED N = NEW DEVICE, OUTLET OR FIXTURE
		Φ\$ ΩΘ	LIGHT = INDICATIVE OF EXISTING DEVICES UNAFFECTED SHADE BY RENOVATION
		¤	LUMINAIRE; INCANDESCENT SURFACE OR PENDANT MOUNT
		Ţ	LUMINAIRE; INCANDESCENT; WALL MOUNT
		Q	LUMINAIRE, H.I.D., WALL MOUNT
		0	SWITCH, SINGLE-POLE: 3 = 3 WAY SWITCH
		\oplus	DUPLEX RECEPTACLE
			SPECIAL POWER CONNECTION, DESIGNATED SERVICE;
		(MOTOR CONNECTION
		∙0 M	MOTOR STARTER - MANUAL
•			LIGHT, EMERGENCY & BATTERY PACK, 2 LAMP HEADS
		•	THERMOSTAT - JOHNSON CONTROLS

E-01 SCALE: 1:100			
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prohibited.	В	PROGRESS REVIEW	APRIL 19, 2006
The contractor shall verify all dimensions, levels, and datums on site and report any discrepancies or omissions to	С	FINAL REVIEW	MAY 02, 2006
his office prior to construction.		ISSUED FOR TENDER	JUNE 06, 2006
3. This drawing is to be read and understood in conjunction	E	AS BUILT	JANUARY 2010
with all other plans and documents applicable to this project.			
4. Do not scale the drawings.			

GENERATOR

TO EXISTING

FLOAT ALARM

0TP-1 1/4HP

-genset indicator \langle 4 angle

---- resv. Pump #1 disconnect

RESV. PUMP #2 DISCONNECT

LOCATED BELOW RESV. PUMPS

TRANSFER SWITCH # 2 & 3

TRANSFER

SWITCH #3

- AUTO DIALER

SWITCH

OTP-2 1/4HP

CHARGER

TTI/TRANSFER SWITCH #1

GROUND CONNECTION

CONNECTION

TO STEEL PILE \pm

VIA 12C-1#3 GND,

SQUARE D PNL "C" 120/208V

SQUARE D | PNL "D" | 120/208V

-30A TWISTLOCK

-15A TWISTLOCK

RECEPTACLE

TRACE CONTROL

UNIT HEATER

THERMOSTA

DRAIN VALVE SOLENOID

4 NEW POWER & LIGHTING LAYOUT

24V POWER SUPPLY

Ø

TRACE

CONTROL

HEATER

TRANSFER

SWITCH #1

XFER SWITCH #4

QBL-424

ORI_424 |

(100 AMP RATED)

PANEL

2 NEW SINGLE LINE DIAGRAM

12C-3**#**10-

SUBMERSBLE BP-1 PUMP 7.5HP

E-01 SCALE: NTS

30A TWISTLOCK -

RECEPTACLE

15A TWISTLOCK -

RECEPTACLE

60A-JPOT

SWITCH #3 (\$\phi\$ 120-3410

> THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS and GEOPHYSICISTS OF THE NORTHWEST TERRITORIES PERMIT NUMBER P 053

> > A.D. WILLIAMS

ENGINEERING INC.

A. D. Williams **Engineering Inc. CONSULTING ENGINEERS**

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AS-BUILT

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GOVERNMENT OF NUNAVUT COMMUNITY AND **GOVERNMENT SERVICES**

XOA OSO

WATER RESERVOIR, SEWAGE LAGOON AND LANDFILL IMPROVEMENTS QIKIQTARJUAQ, NUNAVUT

	ELECTRICAL	MODIFICATIONS
1		

Drawing Title

Drawn By RAE	Checked By RSF	Drawing No.				
Scale AS SHOWN	Project No. i10840.10	E-01				