



FLOOR PLAN - BUILDING 20
SCALE: 1:100
E01

GENERAL NOTES - BUILDINGS 20 AND 51:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE AND/OR LOCAL INSPECTION AUTHORITIES. THE ELECTRICAL CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED BY LAWS, ORDINANCES, RULES AND REGULATIONS OF PUBLIC AUTHORITIES HAVING JURISDICTION OF THIS DISTRICT AND SHALL OBTAIN CERTIFICATES ON SUCH INSPECTIONS AND SUBMIT SAME AND PAY ALL CHARGES IN CONNECTION THEREWITH.
- ELECTRICAL CONTRACTOR TO COORDINATE ALL WORK WITH AAFCC NAPPAN PRIOR TO STARTING WORK.
- CONTRACTOR SHOULD VISIT SITE PRIOR TO TENDER TO ASSESS EXISTING CONDITIONS, OBSTRUCTIONS, MATERIALS, ETC.
- ON COMPLETION, ALL EQUIPMENT SHALL BE THOROUGHLY CLEANED. ALL WORK CHECKED OVER AND LEFT IN WORKING ORDER.
- ALL RUBBISH, UNUSED MATERIALS ETC., SHALL BE REMOVED AND THE PREMISES LEFT CLEAN.
- MAKE GOOD ALL AREAS AFFECTED BY CONSTRUCTION.
- ALL EQUIPMENT AND MATERIAL SHALL BE CSA CERTIFIED.
- DEPARTMENTAL REPRESENTATIVE AND NSPI SHALL INSPECT ALL UNDERGROUND INSTALLATIONS PRIOR TO BACKFILLING.
- TEST EACH WATERER RECEPTACLE BEFORE FINAL COMPLETION OF WORK. USE A TOOL CAPABLE OF VOLTAGE DROP MEASUREMENT UNDER LOAD FOR 15A RECEPTACLES RESPECTIVELY AS WELL AS TO TEST GFCI FUNCTIONALITY TESTING. USE A TOOL EQUIVALENT TO WIRE TESTER "AMPROBE INSP-3" TO TEST ALL 15A RECEPTACLES UNDER LOAD. THE DEPARTMENTAL REPRESENTATIVE SHALL WITNESS ALL TESTS.
- EXISTING BUILDINGS ARE NOT INSULATED OR HEATED. SEAL WATERTIGHT ALL CONDUIT ENTRIES.

CONSTRUCTION NOTES: ④

- DISCONNECT AND REMOVE THE FOLLOWING IN EXISTING PANEL A:
 - 2P, 30A BREAKER IN CCT. 1,3. DISCONNECT AND REMOVE ALL ASSOCIATED WIRING
 - 1P, 15A BREAKER IN CCT. 29. DISCONNECT AND REMOVE ALL ASSOCIATED WIRING
- SUPPLY AND INSTALL THE FOLLOWING IN EXISTING PANEL A:
 - 1P, 15A BREAKER IN CIRCUIT # 1.
 - 1P, 15A BREAKER IN CIRCUIT # 3.
 - 1P, 15A BREAKER IN CIRCUIT # 29.
 NEW BREAKERS TO MATCH EXISTING PANEL 'A'. EXISTING PANEL 'A' IS: SIEMENS P1A42ML125ATS.
- DISCONNECT AND REMOVE EXISTING FEEDERS, AND ALL ASSOCIATED CONDUIT, TO EXISTING WATERERS. ALL EXISTING BRANCH CIRCUITRY TO BE REMOVED BACK TO EXISTING PANEL 'A'.
- REDUCE WIRE SIZE TO #10 AWG RW90 Cu. FOR FINAL TRANSITION TRANSITION TO WATERER RECEPTACLE. PROVIDE ALL RACEWAY TO ALLOW FOR WIRE SIZE REDUCTION.
- PROVIDE EXPANSION JOINT FOR EACH CONDUIT BEFORE FINAL TRANSITION TO UNDERGROUND.

NOTES	DESIGNATION	KW		CIR NO.	BKR	A		B		CIR NO.	KW	DESIGNATION	NOTES
		A	B			A	B	A	B				
	WATER BOWLS			1	2P	2P	2P	2P	2P	2		CALF WARMER	
	30A RECEPTACLE			3	30A	30A	30A	30A	30A	4		CALF WARMER	
	WATER HEATER			5	2P	2P	2P	2P	2P	6		OVERHEAD DOOR	OFF
	LIGHTS			7	30A	30A	30A	30A	30A	8		OVERHEAD DOOR	OFF
	OUTSIDE YARD LIGHT			9	2P	2P	2P	2P	2P	10		ELECTRIC HEAT OFFICE	
	LIGHTS			11	15A	15A	15A	15A	15A	12		OFFICE LIGHT AND RECEPTACLE	
	LIGHTS			13	15A	15A	15A	15A	15A	14		RECEPTACLE BY PANEL	
	LIGHTS			15	15A	15A	15A	15A	15A	16		RECEPTACLES SIDE WALL	
	LIGHTS			17	15A	15A	15A	15A	15A	18		LIGHTS	
	LIGHTS			19	15A	15A	15A	15A	15A	20		LIGHTS	
	ELECTRIC FENCE RECEPTACLE			21	15A	15A	15A	15A	15A	22		LIGHTS	
	BLOCK HEATER RECEPTACLE			23	15A	15A	15A	15A	15A	24		LIGHTS	
	ELECTRIC GATES			25	15A	15A	15A	15A	15A	26		LIGHTS	
	ELECTRIC GATES			27	15A	15A	15A	15A	15A	28		LIGHTS	
	SPARE			29	15A	15A	15A	15A	15A	30		LIGHTS	
	SPARE			31	15A	15A	15A	15A	15A	32		BED STORAGE LIGHTS	
	BLANK			33						34		BLANK	
	BLANK			35						36		BLANK	
	BLANK			37						38		BLANK	
	BLANK			39						40		BLANK	
	BLANK			42						42		BLANK	
	φ "A" TOTAL _____ WATTS												
	φ "B" TOTAL _____ WATTS												
	TOTAL LOAD _____ KW _____ AMPS												
	FEEDER EXISTING												

NOTES	DESIGNATION	KW		CIR NO.	BKR	A		B		CIR NO.	KW	DESIGNATION	NOTES
		A	B			A	B	A	B				
	1 WATER BOWL WB-1			1	15A	15A	15A	15A	15A	2P		CALF WARMER	2
	1 WATER BOWL WB-2			3	15A	15A	15A	15A	15A	4		CALF WARMER	2
	2 30A RECEPTACLE			5	2P	2P	2P	2P	2P	6		OVERHEAD DOOR	2
	2 WATER HEATER			7	30A	30A	30A	30A	30A	8		OVERHEAD DOOR	2
	LIGHTS			9	2P	2P	2P	2P	2P	10		ELECTRIC HEAT OFFICE	2
	LIGHTS			11	15A	15A	15A	15A	15A	12		OFFICE LIGHT AND RECEPTACLE	2
	LIGHTS			13	15A	15A	15A	15A	15A	14		RECEPTACLE BY PANEL	2
	LIGHTS			15	15A	15A	15A	15A	15A	16		RECEPTACLES SIDE WALL	2
	LIGHTS			17	15A	15A	15A	15A	15A	18		LIGHTS	2
	LIGHTS			19	15A	15A	15A	15A	15A	20		LIGHTS	2
	LIGHTS			21	15A	15A	15A	15A	15A	22		LIGHTS	2
	LIGHTS			23	15A	15A	15A	15A	15A	24		LIGHTS	2
	LIGHTS			25	15A	15A	15A	15A	15A	26		LIGHTS	2
	LIGHTS			27	15A	15A	15A	15A	15A	28		LIGHTS	2
	LIGHTS			29	15A	15A	15A	15A	15A	30		LIGHTS	2
	LIGHTS			31	15A	15A	15A	15A	15A	32		LIGHTS	2
	BLANK			33						34		BLANK	
	BLANK			35						36		BLANK	
	BLANK			37						38		BLANK	
	BLANK			39						40		BLANK	
	BLANK			42						42		BLANK	
	φ "A" TOTAL _____ WATTS												
	φ "B" TOTAL _____ WATTS												
	TOTAL LOAD _____ KW _____ AMPS												
	FEEDER EXISTING												



ISSUED FOR TENDER FEB 25 2020
 SITE IMPROVEMENT
 AAFCC NAPPAN
 CUMBERLAND COUNTY
 NOVA SCOTIA

BUILDING 20
 ELECTRICAL LAYOUT,
 DETAILS AND NOTES
 FOR NEW WATERERS

designed K.G. WOLFE conq
 date FEBRUARY 2020
 drawn K.G. WOLFE dessin
 date FEBRUARY 2020
 approved
 date
 Tender Submission
 PWGSC Project Manager Administrateur de projets TPWGC
 project number no. du projet
R.106505.001
 drawing no. no. du dessin
E01