

SINGLE LINE DIAGRAM

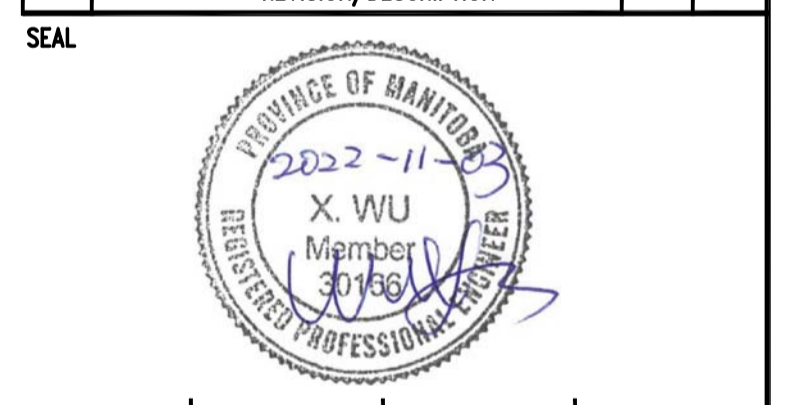
LOAD (W)	SUMMER	WINTER
HEATING	0	18442
COOLING	15069	0
HVAC (RTU, MUA, MUA-1, MUA-2, EF)	14244	43992
EQUIP (MECH)	21274	21274
SCBA COMPR	18425	18425
LIGHTING	8477	8477
APPLIANCES	11512	11512
RECEPTACLES	20325	20325
RECEPTACLES (TRUCK CHARGERS - IRT)	8769	8769
RECEPTACLES (PARKING)	0	5200
Future EV Charging Stns (4@40A, 208V)	35472	35472
TOTAL LOAD (W)	153568	191888
AMPERES (PF=0.8)	533	666
FUTURE 25% (kVA)		300
FUTURE 25% (A) PF=0.8		832

NOTES:	DESCRIPTION	LOAD WATTS	BKR	A	B	C	BKR	LOAD WATTS	DESCRIPTION	NOTES:
	CDP-EP1		800A-3P	1	2	200A-3P			NP-A (APPARATUS RM)	
	NP-B (BSMT. ELEC. RM)		100A-3P	3	4				SPACE FOR FUTURE PANEL, (4) EV LEVEL 2 CHARGERS	
	SPACE			5	6				SPACE	
	SPACE			7	8				SPACE	

NOTES:	DESCRIPTION	LOAD WATTS	BKR	A	B	C	BKR	LOAD WATTS	DESCRIPTION	NOTES:
	EGEN-1 (DIESEL 200KW)		100A-3P	1	2	200A-3P			EP-A (APPARATUS RM)	
	EP-B (APPARATUS RM)		200A-3P	3	4	100A-3P			EP-C (BSMT. ELEC. RM)	
	EP-D (BSMT. ELEC. RM)		200A-3P	5	6	150A-3P			EP-E (BSMT. ELEC. RM)	
	EP-F (BSMT. MECH. RM)		150A-3P	7	8	100A-3P			TR-1 (BSMT. ELEC. RM) FOR SCBA COMPR, (SCBA RM, 134)	
	RTU-WEST		70A-3P	9	10	80A-3P			MUA-2 (200W)	
	SPACE			11	12				SPACE	
	SPACE			13	14				SPACE	
	SPACE			15	16				SPACE	

- GENERAL NOTES:**
- ALSO REFER TO DRAWING E1.0 & SPECIFICATION DRAWINGS.
  - PANEL DESIGNATIONS & CIRCUITS, (EP-X-X) ARE EMERGENCY POWER:
    - (EP-A) & (EP-B) ARE EXISTING PANELBOARDS INSTALLED FROM RECENT PROJECT 2019-075.
    - PROVIDE REPLACEMENT PANELBOARDS/CIRCUIT BREAKERS FOR (EP-C) TO (EP-F), INCLUSIVE. LOCATIONS SAME AS EXISTING.
    - RE-FEED ALL EXISTING LOADS NOT MEETING CODE.
  - PANEL DESIGNATIONS & CIRCUITS, (NP-X-X) ARE NORMAL POWER:
    - (NP-A) IS EXISTING.
    - PROVIDE REPLACEMENT PANELBOARD/CIRCUIT BREAKERS FOR (NP-B). LOCATION SAME AS EXISTING.
    - RE-FEED ALL EXISTING LOADS NOT MEETING CODE.
  - PROVIDE COMPLETE SHORT CIRCUIT COORDINATION STUDY TO INCLUDE FAULT CURRENT COORDINATION & KA RATING OF MAIN 1000A DISTRIBUTION & ALL PANELS.
    - PROVIDE LSIG SETTING FOR NEW 100% RATED MAIN BREAKER.
    - PROVIDE SHOCK AND ARC FLASH PROTECTION LABELS AS PER CSA C22.1, SECTION 2-306.

No.	REVISION/DESCRIPTION	BY	DATE
2	ISSUED FOR ADDENDUM 3	DTA	2022.01.08
1	ISSUED FOR ADDENDUM 1	DTA	2022.12.15
0	ISSUED FOR CONSTRUCTION	DTA	2022.11.03



DRAWN	DATE	CHECKED	DESIGNED	DATE	APPROVED
	2022.10.24				

THE CITY OF WINNIPEG  
PLANNING, PROPERTY AND  
DEVELOPMENT DEPARTMENT  
MUNICIPAL ACCOMMODATIONS DIVISION  
3-65 GARRY STREET, R3C 4K4

PROJECT  
WINNIPEG FIRE PARAMEDIC SERVICES  
FIRE STATION #1  
ELECTRICAL SERVICE UPGRADE AND EMERGENCY GENERATOR  
65 ELLEN STREET BID OPP: 805-2022

SHEET TITLE  
ELECTRICAL  
SINGLE LINE DIAGRAM - RENOVATION  
SCALE AS SHOWN PROJECT No: 2019-150-01 SHEET No: E7.0-R2