GENERAL ELECTRICAL NOTES

A. THE GENERAL NOTES AS DESCRIBED HEREIN, APPLY TO ALL DRAWINGS IN THIS PACKAGE WHERE APPLICABLE.
B. REFER TO ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND DETAILS, INCLUDING MILLWORK DETAILS AND SHOP DRAWINGS FOR COORDINATION OF ELECTRICAL DEVICE LOCATIONS, METHOD OF INSTALLATION & MOUNTING HEIGHTS. ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS.
C. VERIFY LOCATIONS AND ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.
D. PENETRATIONS IN WALLS OR SEPARATIONS, REQUIRING PROTECTED OPENINGS SHALL BE FIRESTOPPED WITH AN APPROVED MATERIAL. REFER TO ARCHITECTURAL SPECIFICATIONS FOR PRODUCT REQUIREMENTS.
E. OUTLETS OR EQUIPMENT SHALL BE MOVED TO ANY POINT WITHIN A 10 ' RADIUS WHEN THE CONSULTANT REQUESTS RELOCATION PRIOR TO CLOSING OF WALL FRAMING, WITHOUT ADDITIONAL COST.
F. UNLESS NOTED OTHERWISE, THE CIRCUITING INDICATED ON THE DRAWINGS IS REPRESENTATIONAL ONLY. CONFIRM CIRCUITING REQUIREMENTS ON SITE.
G. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING AND VOLTAGE DROP REQUIREMENTS, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
H. EXPOSED WIRING SHALL NOT BE PERMITTED. WIRING SHALL BE RECESSED IN WALL, OR WHERE WALLS ARE NOT ACCESSIBLE DUE TO WALL CONSTRUCTION (CONCRETE BLOCK, CONCRETE, BRICK, ETC), PROVIDE CONDUIT AS REQUIRED TO CONCEAL SAME.
I. MINIMUM CONDUIT SIZE SHALL BE 21mm (3/4") UNLESS NOTED OTHERWISE.
J. CONDUIT AND WIRE SHALL NOT BE INSTALLED BELOW FLOOR SLAB UNLESS INDICATED ON PLAN BY DASHED CONDUIT/LINE OR SPECIFICALLY NOTED OTHERWISE.
K. EMPTY CONDUIT SHALL BE C/W PULL WIRE AND PLASTIC BUSHINGS.
L. ALL LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY WHERE INSTALLED WITHIN WALLS OR INACCESSIBLE SPACES. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY WHERE NOTED. LOW VOLTAGE CABLES MAY BE RUN IN CABLE SUPPORT HOOKS ABOVE ACCESSIBLE CEILINGS WHERE NOTED.
M. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONTRACTOR.
N. WHERE EXISTING WALLS ARE TO BE OPENED FOR INSTALLATION OF NEW WIRING, COORDINATE WITH GENERAL CONTRACTOR ROUTING OF SAME. ARRANGE AND PAY FOR ALL CUTTING/REPAIR/PATCHING AS REQUIRED.
O. EQUIPMENT SHUTDOWN AND THE INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED IN ADVANCE WITH THE OWNER AND SHALL BE KEPT TO A MINIMUM.
P. ALL LIFE-SAFETY SYSTEMS SHALL BE MAINTAINED AND OPERABLE AT ALL TIMES DURING CONSTRUCTION.
Q. CONTRACTOR SHALL CONFIRM ALL EXISTING SYSTEMS TO BE IN WORKING CONDITION PRIOR TO CARRYING OUT MODIFICATIONS. WHERE EXISTING SYSTEMS ARE NOT OPERABLE, NOTIFY THE CONSULTANT PRIOR TO CARRYING OUT WORK.
R. AS INDICATED IN CONTRACT DOCUMENTS, UNLESS NOTED OTHERWISE, THE TERM "DEMOLISH" SHALL INCLUDE THE COMPLETE REMOVAL OF THE EXISTING ITEM IDENTIFIED, C/W ASSOCIATED WIRING, CONDUIT AND JUNCTION BOXES BACK TO LAST REMAINING DEVICE OR SOURCE. CIRCUITS FREED UP FROM DEMOLISHED ELECTRICAL, SHALL BECOME SPARE. REFER TO THE RENOVATION DRAWING KEY NOTES FOR FURTHER REQUIREMENTS.
S. AS INDICATED IN CONTRACT DOCUMENTS, UNLESS NOTED OTHERWISE, THE TERM "REMOVE & REPLACE" SHALL INCLUDE THE COMPLETE REMOVAL & REPLACEMENT OF THE EXISTING ITEM IDENTIFIED IN ITS CURRENT LOCATION, WITH A NEW ITEM, UTILIZING THE EXISTING OUTLET BOX AND WIRING. REFER TO THE RENOVATION DRAWING KEY NOTES FOR FURTHER REQUIREMENTS.
T. AS INDICATED IN CONTRACT DOCUMENTS, UNLESS NOTED OTHERWISE, THE TERM "RELOCATE" SHALL INCLUDE THE COMPLETE RELOCATION OF THE EXISTING ITEM IDENTIFIED IN ITS CURRENT LOCATION ON THE DEMOLITION DRAWINGS, TO THE NEW LOCATION AS INDICATED ON THE RENOVATION DRAWINGS. INCLUDE ALL LABOUR AND MATERIALS TO REROUTE/EXTEND/REFEED THE EXISTING CIRCUITRY AS REQUIRED TO ACCOMMODATE THE RELOCATION. REFER TO THE RENOVATION DRAWING KEY NOTES FOR FURTHER REQUIREMENTS.
U. SITE CONFIRM ANY ELECTRICAL WITHIN AREAS OF RENOVATION REQUIRING RELOCATION TO ACCOMMODATE THE RENOVATION.
V. PROVIDE WIRE AND CONDUIT AS REQUIRED FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
W. PROVIDE CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY COMMUNICATIONS/DATA SYSTEMS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
X. PROVIDE BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.
Y. DRAWING RECORDS OF THE EXISTING FLOOR PLANS HAVE BEEN COMPILED FROM INFORMATION FROM SITE OBSERVATIONS AS NOTED BY THE CONSULTANT. THE ACCURACY OF THESE DRAWING RECORDS IS LIMITED TO THE EXTENT OF KNOWN CONSTRUCTION INFORMATION.
Z. DEMOLISH ALL ELECTRICAL DEVICES IN WALLS, FLOORS OR CEILINGS TO BE DEMOLISHED. CONFIRM EXTENT OF DEMOLITION WITH ALL DISCIPLINE DRAWINGS. REROUTE/EXTEND/RE-FEED EXISTING ELECTRICAL AS REQUIRED TO MAINTAIN EXISTING SYSTEMS NOT INDICATED TO BE REMOVED.
AA. REMOVE ANY UNUSED OR ABANDONED WIRING AND CONDUIT WITHIN RENOVATION AREA, INCLUDING BRANCH CIRCUIT WIRING, VOICE/DATA CABLING AND SYSTEMS CABLING TO SOURCE OF SUPPLY.
AB. WHERE EXISTING WIRING AND CONDUIT ARE RE-USED, VERIFY EXISTING CONDITIONS. MODIFY AND SUPPLEMENT EXISTING FASTENING AND SUPPORT TO MEET CODE REQUIREMENTS.
AC. WHERE BRANCH CIRCUIT BREAKERS ARE REMOVED, PROVIDE FILLER PLATES FOR BREAKER SPACES.
AD. CIRCUIT BREAKERS SHALL MATCH EXISTING. CONFIRM SHORT CIRCUIT RATING AND TYPE ON SITE, PRIOR TO FINALIZING PRICING.
AE. UTILIZE SPARE/FREED UP CIRCUITS FROM DEMOLITION AS REQUIRED TO ACCOMMODATE THE ADDITIONAL CIRCUITING REQUIREMENTS IN THE RENOVATION.
AF. PROVIDE NEW TYPEWRITTEN PANEL DIRECTORIES TO ACCOMMODATE UPDATED CIRCUITING. NEW BREAKERS IN DISTRIBUTION PANELS SHALL BE LABELLED USING LAMACOIDS.
AG. WIRING SHALL BE CONCEALED WHERE POSSIBLE. UTILIZE CRAWLSPACE AND/OR ACCESSIBLE CEILING SPACE TO RUN NEW WIRING AS REQUIRED AND FISH INTO WALLS/MILLWORK.
AH. WHERE EXISTING WALLS ARE TO BE OPENED FOR INSTALLATION OF NEW WIRING, COORDINATE WITH GENERAL CONTRACTOR ROUTING OF SAME. ARRANGE AND PAY FOR ALL CUTTING/REPAIR/PATCHING AS REQUIRED.

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	LIGHTING
	SURFACE LIGHT
	SURFACE LIGHT
	LINEAR WALL LIGHT
	RECESSED LIGHT(TYPE DENOTED)
	SUSPENDED OR PENDANT LIGHT
	STRIP LIGHT(TYPE DENOTED)
	TRACK LIGHT
	TRACK AND TRACK LIGHT(TYPE DENOTED)
	EXIT LIGHT
	LIGHTING CONTROL
	SINGLE POLE SW
	KEYED SWITCH
	PUSHBUTTON
	OCCUPANCY SENSOR(TYPE DENOTED)
	RECEPTACLES
	SINGLE RECEPT
	SPECIAL RECEPT(TYPE DENOTED)
	RECEPT ON CORD REEL(DUPLEX SHOWN)
	RECEPT MTD IN FLOOR(DUPLEX SHOWN)
	RECEPT MTD IN CEILING
	EQUIPMENT
	MULTIOUTLET ASSEMBLY(TYPE DENOTED)
	JUNCTION BOX
	AUTOMATIC DOOR OPERATOR PUSHBUTTON
	GROUND ROD
	MOTOR(SEE SCHEDULE)
	DIRECT POWER CONNECTION
	SWITCH - MECH
	CIRCUIT BREAKER PANEL
	POWER OR DISTRIBUTION PANEL
	SPECIAL CABINET(TYPE DENOTED)
	4-POST DATA RELAY RACK
	TRANSFORMER(TYPE DENOTED)
	ELECTRICAL HEATER
	BASEBOARD HEATER(TYPE DENOTED)
	WALL HEATER(TYPE DENOTED)
	UNIT HEATER(TYPE DENOTED)

SYMBOL	DESCRIPTION
	GENERAL ELECTRIC
	LIGHT SYMBOL INDICATES EXISTING
	DASHED SYMBOL INDICATES REMOVED
	KEYED NOTE(SEE SCHEDULE)
	DEMOLITION NOTE(SEE SCHEDULE)
	REVISION TAG
	WIRING
	CONDUIT CONCEALED IN WALL OR OVERHEAD
	COMMUNICATION
	COMMUNICATIONS OUTLET(TYPE DENOTED)
	INTERCOM STATION
	SPEAKER
	ANTENNA
	WIRELESS ACCESS POINT
	FIRE ALARM
	FIRE ALARM HORN W/STROBE(CANDELAS)
	FIRE ALARM STROBE(CANDELAS)
	GAS DETECTOR(TYPE DENOTED)
	HEAT DETECTOR(TYPE & TEMP DENOTED)
	SMOKE DETECTOR(TYPE & CO DENOTED)
	SELF-CONTAINED SMOKE ALARM(CO DENOTES COMBO)
	F.A. DOOR HOLDER
	F.A. PULLSTATION
	FIRE ALARM CONTROL PANEL
	NAC POWER SUPPLY
	SPRINKLER FLOW SWITCH
	SPRINKLER VALVE TAMPER SWITCH
	SECURITY
	ELECTRIC STRIKE
	DOOR CONTACTS
	CARD READER
	SECURITY NOTIFICATION APPLIANCE
	GLASS BREAK DETECTOR
	HIGH WATER SENSOR
	TEMPERATURE SENSOR
	MOTION DETECTOR(TYPE DENOTED)
	CCTV CAMERA
	DURESS ALERT LIGHT
	SIREN
	NURSE CALL DOME LIGHT(2 LAMP)

REFER TO SPECIFICATIONS FOR MOUNTING HEIGHTS.

ELECTRICAL SYMBOL NOTES

FL01 A-12b — THE LIGHTING FIXTURE TYPE IS INDICATED BY UPPER CASE LETTERS AND NUMBERS. THE CIRCUIT DESIGNATION IS INDICATED BY LETTERS AND NUMBERS SEPARATED BY DASH. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER.

EXAMPLE 1: LIGHTING FIXTURE TYPE "FL01" IS CONNECTED TO PANEL A, CIRCUIT 12 AND CONTROLLED BY SWITCH "b".

* P2D2I * A-2aba — EXAMPLE 2: THE FIXTURE TYPE SHOWN AS A NUMERATOR INDICATES ALL LIGHTING FIXTURES IN THE ROOM OR SPACE ARE THE SAME TYPE. THE CIRCUIT NUMBER AND SWITCH DESIGNATION SHOWN AS A DENOMINATOR INDICATES ALL LIGHTING FIXTURES IN THE ROOM OR SPACE ARE CONNECTED TO THE SAME CIRCUIT, CONTROLLED BY THE SAME SWITCHES, CENTER/OUTBOARD MULTILEVEL SWITCHING.

E EX1/6U1 A-14 — EXIT LIGHTS. STEM INDICATES WALL MOUNTING. NO STEM INDICATES CEILING MOUNTING. SHADED AREA INDICATES ILLUMINATED FACE(S). ARROW INDICATES DIRECTIONAL ARROW ON ILLUMINATED FACE(S). THE SIGNAGE TYPE IS INDICATED BY UPPER CASE LETTERS AND NUMBERS PRECEDING THE "/". THE ASSOCIATED BATTERY BANK IS INDICATED BY UPPERCASE LETTERS AND NUMBERS FOLLOWING THE "/". THE AC CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. EXAMPLE: THE WALL MOUNTED EXIT LIGHT TYPE "EX1" WITH SINGLE FACE AND DIRECTIONAL ARROW IS CONNECTED TO BATTERY BANK "6U1" AND AC CIRCUIT 14 FROM PANEL A .

A-16 — DEVICES. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. EXAMPLE: SPLIT DUPLEX RECEPTACLE IS CONNECTED TO PANEL A, CIRCUIT 16 AND ONE RECEPTACLE OUTLET IS CONTROLLED BY A SWITCH.

d — THE CONTROL DEVICE DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SINGLE POLE SWITCH "d" TO CONTROL LIGHTING FIXTURES INDICATED BY "d".

EQ-1 A-1,3,5 — SPECIAL CONNECTIONS. THE EQUIPMENT IS INDICATED BY THE TAG. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE LOAD DESCRIPTION AND TYPE OF CONNECTION. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: EQUIPMENT NO. 1; 3 PHASE CONNECTION TO PANEL A, CIRCUITS 1, 3, 5.

BB8.05 A-7,9 — ELECTRIC HEATER CONNECTIONS. THE HEATER TYPE IS INDICATED BY THE ASSOCIATED TAG. SEE THE HEATER SCHEDULE FOR ELECTRICAL REQUIREMENTS. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE HEATER. EXAMPLE: ELECTRIC BASEBOARD HEATER TYPE "BB8.05" CONNECTED TO PANEL A, CIRCUITS 7, 9.

T1 — TRANSFORMERS. THE TRANSFORMER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER "T". SEE THE TRANSFORMER SCHEDULE OR THE SINGLE LINE DIAGRAM FOR THE TRANSFORMER DESCRIPTION AND REQUIREMENTS. EXAMPLE: TRANSFORMER TYPE "T1".

LPN-102 — PANELBOARDS. PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANELBOARDS. SEE PANELBOARD IDENTIFICATION FOR DESIGNATION CODES.

1 (TYP) — KEYNOTE. SEE THE KEYED NOTES ON THAT SHEET FOR THE NOTE NUMBER INDICATED. (TYP) INDICATES THAT THE NOTE IS TYPICAL OF THE APPLICATION.

CONDUIT SHOWN WITHOUT SLASH MARKS SHALL CONTAIN 2 # 12 CONDUCTORS IN 21mm (3/4") CONDUIT UNLESS SPECIFIC EQUIPMENT REQUIRES A DIFFERENT SIZE.

SF-1 A-2,4,6 — MOTOR CONNECTIONS. THE MOTOR IS INDICATED BY A NUMBER WITHIN OR CHARACTERS ADJACENT TO THE MOTOR SYMBOL. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE MOTOR DESCRIPTION AND ELECTRICAL REQUIREMENTS. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: MOTOR SF-1; 3 PHASE CONNECTION TO PANEL A, CIRCUITS 2, 4, 6.

SYMBOL NOTATIONS: UPPER CASE LETTERS ADJACENT TO SYMBOLS INDICATE A UNIT TYPE. SEE APPROPRIATE SCHEDULE OR SPECIFICATIONS.

SPECIFIC CODE NOTES

FIRE PROTECTION REQUIREMENTS

A. PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL.
   1. CONDUITS MAY PENETRATE WALLS OR PARTITIONS, PROVIDED THEY ARE FIRE-STOPPED.
   2. OUTLET BOXES THAT PENETRATE OPPOSITE SIDES OF A WALL ASSEMBLY SHALL BE OFFSET WHERE NECESSARY TO MAINTAIN THE INTEGRITY OF THE FIRE SEPARATION.
B. LIGHT FIXTURES AND OTHER APPARATUS INSTALLED IN AN ACOUSTICAL CEILING GRID SHALL BE INDEPENDENTLY SUPPORTED.
C. RECESSED LIGHTING FIXTURES INSTALLED IN FIRE RATED CEILING ASSEMBLIES SHALL BE FIRE RATED FIXTURES BEARING THE ULC FIRE RATED LABEL. FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE ULC FIRE RESISTANCE DIRECTORY, AND SHALL INCLUDE A FIRE RATED ENCLOSURE INSTALLED OVER THE FIXTURE THAT MEETS THE REQUIREMENTS OF THE ULC FIRE RESISTANCE DIRECTORY.

ELECTRICAL ABBREVIATIONS LIST

1P	1 POLE (2P, 3P, 4P, ETC.)	DIST	DISTRIBUTION	IG	ISOLATED GROUND	NIC	NOT IN CONTRACT	SWBD	SWITCHBOARD
		DR	DEDICATED CIRCUIT RECEPTACLE	INCAND	INCANDESCENT	NTS	NOT TO SCALE	SYM	SYMMETRICAL
A	AMPERE	DS	SAFETY DISCONNECT SWITCH	IPLC	INTELLIGENT PARKING LOT CONTROLLER			SYS	SYSTEM
AC	ABOVE COUNTER OR AIR CONDITIONER	DW	DISHWASHER			OH	OVERHEAD	TEL	TELEPHONE
		DWG	DRAWING	IR	INFRARED	OHD	OVERHEAD DOOR	TEL/DATA	TELEPHONE/DATA
ADO	AUTOMATIC DOOR OPENER			IW	INTERLOCK WITH	OL	OVERLOADS	TYP	TYPICAL
AFF	ABOVE FINISHED FLOOR	ELEV	ELEVATOR			OWL	OCCUPIED WHEN LIT		
AFI	ARC FAULT CIRCUIT INTERRUPTER	EM	EMERGENCY	J-BOX	JUNCTION BOX			UC	UNDER COUNTER
		EMS	ENERGY MANAGEMENT SYSTEM			PB	PULL BOX OR PUSHBUTTON	UE	UNDERGROUND ELECTRICAL
AHU	AIR HANDLING UNIT	EMT	ELECTRICAL METALLIC TUBING	KV	KILOVOLT	PED	PEDESTAL	UG	UNDERGROUND
AL	ALUMINUM	EQUIP	EQUIPMENT	KVA	KILOVOLT-AMPERE	PF	POWER FACTOR	UH	UNIT HEATER
ALT	ALTERNATE	EXIST	EXISTING	KVAR	KILOVOLT-AMPERE REACTIVE	PH	PHASE	UTIL	UTILITY
AMP	AMPERE	EXP	EXPLOSION PROOF	KW	KILOWATT	PNL	PANEL		
ANNUN	ANNUNCIATOR			KWH	KILOWATT HOUR	PP	POWER POLE	V	VOLT
APPROX	APPROXIMATELY	FA	FIRE ALARM			PR	PAIR/PRINTER	VSR	VOLTAGE SENSING RELAY
ARCH	ARCHITECT, ARCHITECTURAL	FABP	FIRE ALARM BOOSTER POWER SUPPLY PANEL	LT	LIGHT	PROJ	PROJECTION	VA	VOLT-AMPERES
ATS	AUTOMATIC TRANSFER SWITCH			LTG	LIGHTING	PT	POTENTIAL TRANSFORMER	VDT	VIDEO DISPLAY TERMINAL
AUTO	AUTOMATIC	FACP	FIRE ALARM CONTROL PANEL	LTNG	LIGHTNING	PVC	POLYVINYL CHLORIDE (CONDUIT)	VFD	VARIABLE FREQUENCY DRIVE
AUX	AUXILIARY	FCU	FAN COIL UNIT	LV	LOW VOLTAGE	PWR	POWER		
AV	AUDIO VISUAL	FIXT	FIXTURE					W	WATT
AWG	AMERICAN WIRE GAUGE	FLR	FLOOR	MAX	MAXIMUM	QP	QUADPLEX RECEPTACLE	WI	WITH
		FR	REFRIGERATOR	MC	MICROWAVE	QUAN	QUANTITY	WG	WIRE GUARD
BATT	BATTERY	FUDS	FUSED SAFETY DISCONNECT SWITCH	MCB	MAIN CIRCUIT BREAKER			WH	WATER HEATER
BLDG	BUILDING	FZ	FREEZER	MCC	MOTOR CONTROL CENTER	R	RELOCATED	W/O	WITHOUT
				MDC	MAIN DISTRIBUTION CENTER	RCPT	RECEPTACLE	WP	WEATHERPROOF
C	CONDUIT	GA	GAUGE	MDP	MAIN DISTRIBUTION PANEL	REQD	REQUIRED	WS	WASHER
CAB	CABINET	GC	GENERAL CONTRACTOR	MFR	MANUFACTURER	RM	ROOM		
CB	CIRCUIT BREAKER	GEN	GENERATOR	MFS	MAIN FUSED DISCONNECT SWITCH	RMC	RIGID METAL CONDUIT	XFMR	TRANSFORMER
CCTV	CLOSED CIRCUIT TELEVISION	GFI	GROUND FAULT CIRCUIT INTERRUPTER	MIC	MICROPHONE	RTU	ROOF TOP UNIT	XFR	TRANSFER
CKT	CIRCUIT			MIN	MINIMUM				
CLG	CEILING	GFP	GROUND FAULT PROTECTOR	MISC	MISCELLANEOUS	SC	SURFACE CONDUIT		
COMB	COMBINATION	GND	GROUND	MLO	MAIN LUGS ONLY	SEC	SECONDARY	∠	ANGLE
CONN	CONNECTION			MMS	MANUAL MOTOR STARTER	SPEC	SPECIFICATION	@	AT
CONT	CONTINUATION OR CONTINUOUS	HOA	HANDS-OFF-AUTOMATIC SWITCH	MSBD	MAIN SWITCHBOARD	SPKR	SPEAKER	Δ	DELTA
CONTR	CONTRACTOR	HP	HORSEPOWER	MTR	MOTOR, MOTORIZED	SP	SPARE	'	FEET
CT	CURRENT TRANSFORMER	HRV	HEAT RECOVERY VENTILATION	MW	COORDINATED IN MILLWORK	SR	SURFACE RACEWAY	"	INCHES
CU	COPPER	HTR	HEATER	NEC	NATIONAL ELECTRICAL CODE	S/S	STOP/START PUSHBUTTONS	#	NUMBER
C/W	COMPLETE WITH	HV	HIGH VOLTAGE	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION	STA	STATION	Ø	PHASE
DCP	DOMESTIC WATER CIRCULATING PUMP	HVAC	HEATING, VENTILATING AND AIR CONDITIONING			STD	STANDARD	CL	CENTER LINE
DEPT	DEPARTMENT					SU	SUMP PUMP	PL	PLATE
DET	DETAIL			NFDS	NON-FUSED SAFETY DISCONNECT SWITCH	SURF	SURFACE MOUNTED		
DISC	DISCONNECT	IC	INTERRUPTING CAPACITY			SW	SWITCH		

ELECTRICAL DRAWINGS

SYMBOLS & ABBREVIATIONS
E0.1 Electrical Symbols And Abbreviations

SITE PLANS
E1.1 Electrical Site Plan
E1.2 Electrical Overall Plan

DEMOLITION PLANS
EDL2.1 Main Floor West - Lighting Plan Demo
EDP2.1 Main Floor West - Power & Systems Plan Demo

LIGHTING PLANS
EL2.0 Underslab/Crawlspace West - Lighting Plan
EL2.1 Main Floor West - Lighting Plan
EL2.2 Second Floor West - Lighting Plan

POWER PLANS
EP2.0 Underslab/Crawlspace West - Power Plan
EP2.1 Main Floor West - Power Plan
EP2.2 Second Floor West - Power Plan
EP2.3 Roof - Power & Systems Plan
EP2.4 Main Floor West - CSA Hazard Zone Plan

SYSTEMS PLANS
ES2.0 Underslab/Crawlspace West - Systems Plan
ES2.1 Main Floor West - Systems Plan
ES2.2 Second Floor West - Systems Plan

DETAILS
E4.0 Electrical Details Sheet 1
E4.1 Electrical Details Sheet 2
E4.2 Electrical Details Sheet 3

SCHEMATICS & RISER DIAGRAMS
E5.0 Distribution Schematic Diagram
E5.1 Fire Alarm Riser Diagram
E5.2 Intercom Paging and AV System Schematic
E5.3 Intrusion Alarm Riser Diagram

SCHEDULES
E6.0 Electrical Lighting Schedules
E6.1 Electrical Schedules Miscellaneous
E6.2 Mechanical Equipment Connection Schedule - Part 1
E6.3 Mechanical Equipment Connection Schedule - Part 2
E6.4 Food And Nutrition Equipment Connection Schedule
E6.5 Culinary Arts & Baking/Pastry Equipment Connection Schedule - Part 1
E6.6 Culinary Arts & Baking/Pastry Equipment Connection Schedule - Part 2
E6.7 Machining & Welding Technology Equipment Connection Schedule - Part 1
E6.8 Machining & Welding Technology Equipment Connection Schedule - Part 2
E6.9 Construction & Wood Technology Equipment Connection Schedule
E6.10 Electrical Panel Schedules - Part 1
E6.11 Electrical Panel Schedules - Part 2
E6.12 Electrical Panel Schedules - Part 3
E6.13 Electrical Panel Schedules - Part 4
E6.14 Electrical Panel Schedules - Part 5
E6.15 Electrical Panel Schedules - Part 6
E6.16 Electrical Panel Schedules - Part 7
E6.17 Conduit and Wire Schedules

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No.	REVISION/DESCRIPTION	BY	DATE
0	ISSUED FOR TENDER	JS/MP	24-04-01

SEAL

PROVINCE OF MANITOBA — M. G. PENNER — Member 23792 — LICENSED PROFESSIONAL ENGINEER — 2024-04-01

EW	MP/KG	KG	MP/KG
DRAWN	CHECKED	DESIGNED	APPROVED

DATE 2024-04-01 USER APPROVAL

Winnipeg
THE CITY OF WINNIPEG
ASSETS & PROJECT MANAGEMENT DEPARTMENT
MUNICIPAL ACCOMMODATIONS DIVISION
3-65 GARRY STREET, R3C 4K4

PROJECT
PEMBINA TRAILS COLLEGIATE
VOCATIONAL WING
TENDER NO. 954-2023B
50 FRONTIER TRAIL, WINNIPEG, MANITOBA, R3Y 2H1

SHEET TITLE
Electrical Symbols And Abbreviations

SCALE	PROJECT No:	SHEET No:
As indicated	2020-127	E0.1

DRAWING SHEET SIZE: A1 (594x841) PLOT 1:1
ESE 24049