GENERAL ELECTRICAL NOTES

A. THE GENERAL NOTES AS DESCRIBED HEREIN, APPLY TO ALL DRAWINGS IN THIS PACKAGE WHERE APPLICABLE.

B. PENETRATIONS IN WALLS OR SEPARATIONS, REQUIRING PROTECTED OPENINGS SHALL BE FIRESTOPPED WITH AN APPROVED MATERIAL. REFER TO ARCHITECTURAL SPECIFICATIONS FOR PRODUCT REQUIREMENTS.

C. 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.

D. 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.

E. EQUIPMENT SHUTDOWN AND THE INTERRUPTION OF ANY SERVICES SHALL BE COORDINATED IN ADVANCE WITH THE BUILDING END USER AND SHALL BE KEPT TO A MINIMUM.

F. PROVIDE LOCKABLE ENCLOSURES WITH COMMON KEY ON ALL STARTERS AND DISCONNECT SWITCHES LOCATED IN PUBLIC AREAS. KEYS SHALL BE HANDED OVER TO OWNER AT END OF PROJECT.

G. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 100mm (4") HIGH, 4% AIR ENTRAINED, POLY FIBER REINFORCED CONCRETE, 100mm (4") LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO STRUCTURAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.

H. WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.

I. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL ELECTRICAL ITEMS SHOWN ON THE DRAWINGS UNLESS NOTED OTHERWISE.

J. 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.

K. 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.

L. 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.

M. PROVIDE BLANK COVERPLATES OVER ALL EXISTING UNUSED OPENINGS.

N. DRAWING RECORDS OF THE EXISTING FLOOR PLANS HAVE BEEN COMPILED FROM INFORMATION SUBMITTED BY THE OWNER AND FROM SITE OBSERVATIONS AS NOTED BY THE CONSULTANT. THE ACCURACY OF THESE DRAWING RECORDS IS LIMITED TO THE EXTENT OF KNOWN CONSTRUCTION INFORMATION.

O. 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.

P. 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.

Q. ALL NEW WIRING SHALL BE CONCEALED WHERE POSSIBLE. UTILIZE ACCESSIBLE CEILING SPACE TO RUN NEW WIRING AS REQUIRED AND FISH INTO WALLS/MILLWORK.

R. RISER DIAGRAMS ARE SCHEMATIC AND REPRESENTATIONAL ONLY. LOCATIONS AND QUANTITIES OF EQUIPMENT/DEVICES/LUMINAIRES SHALL BE COORDINATED WITH THE ELECTRICAL FLOOR PLANS.

S. COORDINATE EXACT QUANTITY OF STAIRWELL LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS. PROVIDE ONE LUMINAIRE PER LANDING.

T. WHERE NEW TOGGLE SWITCHES, OR DIMMER CONTROLS ARE ADJACENT EACH OTHER, PROVIDE GANGED SWITCHING TO ACCOMMODATE TOTAL NUMBER OF SWITCHES, UNLESS NOTED OTHERWISE.

U. ELECTRICAL DRAWINGS DO NOT SHOW ALL EXISTING UNDERGROUND SERVICES ON THE SITE. CONTRACTOR IS TO COORDINATE INSTALLATION WITH OTHER DIVISIONS AND CONTACT UTILITIES FOR PROPER LOCATES OF SERVICES PRIOR TO TRENCHING.

V. ALL LIGHTING AND POWER CONDUCTORS SHALL BE INSTALLED BETWEEN 24" (MINIMUM) AND 36" (MAXIMUM) BELOW FINISHED GRADE.

W. ALL COMMUNICATIONS CONDUIT AND CABLES SHALL BE INSTALLED 36" (MINIMUM) BELOW FINISHED GRADE.

X. ALL CONDUCTORS FOR EXTERIOR LIGHTING AND POWER CIRCUITS SHALL BE #10 AWG MINIMUM.

Y. OUTLETS OR EQUIPMENT SHALL BE MOVED TO ANY POINT WITHIN A 10' RADIUS WHEN THE CONSULTANT REQUESTS RELOCATION BEFORE THE WORK HAS BEEN SUBSTANTIALLY COMPLETED, WITHOUT ADDITIONAL COST.

ELECTRICAL SYMBOL LEGEND

HT AFF	SYMBOL	DESCRIPTION
		LIGHTING
AS NOTED		SURFACE LIGHT
AS NOTED		SURFACE LIGHT
AS NOTED		LINEAR WALL LIGHT
		RECESSED LIGHT(TYPE DENOTED)
		SUSPENDED OR PENDANT LIGHT
		RECESSED DOWNLIGHT(WALL WASH)
		STRIP LIGHT(TYPE DENOTED)
		TRACK LIGHT
AS NOTED		TRACK AND TRACK LIGHT(TYPE DENOTED)
2350mm		EMERGENCY BATTERY LIGHT(TYPE DENOTED)
		EMERGENCY LIGHT - REMOTE HEAD
300mm*		EXIT LIGHT
AS NOTED		LIGHT FIXTURE ON (EM) LIFE SAFETY BRANCH
		LIGHTING CONTROL
1200mm		SINGLE POLE SW
1200mm		3-WAY SW
1200mm		OCCUPANCY SENSOR SW
1200mm		DIMMER SWITCH
1200mm		OCCUPANCY SENSOR(TYPE DENOTED)
		LIGHT LEVEL SENSOR (TYPE DENOTED)
		PHOTOCELL
		RECEPTACLES
400mm		DUPLEX RECEPT
		SPECIAL RECEPT(TYPE DENOTED)
900mm		RECEPT C/W WET LOCATION COVERPLATE(DUPLEX SHOWN)
900mm		RECEPT C/W INTEGRAL GFI(DUPLEX SHOWN)
		RECEPT MTD IN FLOOR(DUPLEX SHOWN)
150mm******		RECEPT MTD ABOVE COUNTER(DUPLEX SHOWN)
		RECEPT MTD IN MILLWORK(DUPLEX SHOWN)
		EQUIPMENT
AS NOTED		JUNCTION BOX
		AUTOMATIC DOOR OPERATOR PUSHBUTTON
		GROUND ROD
	25KVA	GENERATOR(KVA DENOTED)
	GF-1	MOTOR(SEE SCHEDULE)
		DIRECT POWER CONNECTION
2000mm**		POWER OR DISTRIBUTION PANEL
	T1	TRANSFORMER(TYPE DENOTED)
1200mm**	EV	ELECTRICAL VEHICLE SUPPLY EQUIPMENT
		MOTOR CONTROL
1850mm**		SAFETY DISC. SW.(NON-FUSED)
1850mm**		SAFETY DISC. SW.(FUSED)
1200mm		THERMOSTAT - LOW VOLTAGE
1200mm		THERMOSTAT - LINE VOLTAGE
		ELECTRICAL HEATER
PER SCHED	H1	BASEBOARD HEATER(TYPE DENOTED)
PER SCHED		WALL HEATER(TYPE DENOTED)

HT AFF	SYMBOL	DESCRIPTION
PER SCHED		UNIT HEATER(TYPE DENOTED)
PER SCHED	H4	RADIANT CEILING PANEL HEATER(TYPE DENOTED)
PER SCHED		FORCE FLOW HEATER CEILING
		GENERAL ELECTRIC
		LIGHT SYMBOL INDICATES EXISTING
		DASHED SYMBOL INDICATES REMOVED
		KEYED NOTE(SEE SCHEDULE)
		DEMOLITION NOTE(SEE SCHEDULE)
	##	REVISION TAG
		WIRING
		CONDUIT CONCEALED BELOW FLOOR
		CONDUIT EXPOSED
		CONDUIT TRANSITION UP
		CONDUIT TRANSTION DOWN
	UE	UNDERGROUND ELECTRICAL
		COMMUNICATION
400mm		COMMUNICATIONS OUTLET(TYPE DENOTED)
		MICROPHONE OUTLET
1200mm***		INTERCOM STATION
1200mm		INTERCOM - AUDIO/VISUAL
400mm		TELEPHONE
2150mm		SPEAKER
2150mm		INTERCOM PAGING SWITCH
		WIRELESS ACCESS POINT
		PLYWOOD BACKBOARD
		FIRE ALARM
2350mm**		FIRE ALARM HORN W/STROBE(CANDELAS)
2350mm**		FIRE ALARM STROBE(CANDELAS)
		DUCT SMOKE DETECTOR(TYPE DENOTED)
		GAS DETECTOR(TYPE DENOTED)
	RoR RoR	HEAT DETECTOR(TYPE & TEMP DENOTED)
200mm****		SMOKE DETECTOR(TYPE & CO DENOTED)
200mm****		SELF-CONTAINED SMOKE ALARM(CO DENOTES COMBO)
		SELF-CONTAINED CO ALARM
		F.A. DOOR HOLDER
1200mm		F.A. PULLSTATION
1850mm**	FACP	FIRE ALARM CONTROL PANEL
1850mm**	FA annun	FIRE ALARM REMOTE ANNUNCIATOR
		SPRINKLER FLOW SWITCH
		SPRINKLER VALVE TAMPER SWITCH
		SECURITY
		ELECTRIC STRIKE
		DOOR CONTACTS
1200mm		GARAGE DOOR CONTACT
1200mm***		CARD READER
AS NOTED		CCTV CAMERA
	ACE	ACCESS CONTROL ENCLOSURE
	RTE	REQUEST TO EXIT

ALL DISTANCES ARE TO CENTER OF DEVICE OR EQUIPMENT UNLESS OTHERWISE NOTED. DEVICES INDICATED AT 1200mm MAY NOT BE INSTALLED WITH ANY OPERABLE PART HIGHER THAN 1200mm. DEVICES MAY BE INSTALLED IN CONCRETE MASONRY UNITS WITH THE TOP OF THE DEVICE AT 1200mm. * DISTANCE ABOVE TOP OF DOOR FRAME ** DISTANCE TO TOP OF EQUIPMENT OR DEVICE *** DISTANCE TO HIGHEST OPERABLE PART OF EQUIPMENT **** DISTANCE BELOW CEILING COUNTER" ***** DISTANCE TO BOTTOM OF DEVICE ****** DISTANCE ABOVE

ELECTRICAL SYMBOL NOTES

NL RL01 A-12b — LIGHTING FIXTURES. "NL" INDICATES THAT THE LIGHTING FIXTURE IS ON A NIGHT LIGHT BRANCH. THE LIGHTING FIXTURE TYPE IS INDICATED BY UPPER CASE LETTERS AND NUMBERS. THE CIRCUIT DESIGNATION IS INDICATED BY LETTERS AND NUMBERS SEPARATED BY A DASH. THE SWITCH DESIGNATION IS INDICATED BY A LOWER-CASE LETTER. EXAMPLE: THE LIGHTING FIXTURE SHOWN HAS THE FOLLOWING PROPERTIES: IT IS ON A NIGHT LIGHT BRANCH; ITS LIGHTING FIXTURE TYPE IS "RL01"; IT IS CONNECTED TO PANEL A, CIRCUIT 12; AND IT IS CONTROLLED BY SWITCH "b".

E EXI/BU1 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 "BU1" 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.

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.

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.

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

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

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

#10 — CONDUIT SHOWN WITH SLASH MARKS SHALL CONTAIN 1 # 12 CONDUCTOR PER SLASH MARK IN 21mm (3/4") CONDUIT UNLESS A CONDUCTOR AND CONDUIT SIZE IS SHOWN ADJACENT TO THE SLASH MARKS. SLASH MARK INDICATORS ARE: SHORT STRAIGHT=PHASE CONDUCTOR, LONG STRAIGHT=NEUTRAL CONDUCTOR, SHORT BENT ENDED=SWITCH LEGS, LONG STRAIGHT WITH A DOT=GROUND CONDUCTOR, CHEVRON=CATEGORY 6, HALF CHEVRON=CATEGORY 3, TWIST=SHIELDED TWISTED PAIR, CONCENTRIC CIRCLE AND DOT=COAX CABLE.

CA-1 — CLOSED-CIRCUIT TELEVISION (CCTV) CAMERAS. STEM INDICATES WALL MOUNTING. NO STEM INDICATES CEILING MOUNTING. CCTV CAMERA TYPE IS IDENTIFIED BY THE TAG. REFER TO CCTV CAMERA SCHEDULE FOR CCTV CAMERA TYPES AND INSTALLATION REQUIREMENTS. EXAMPLE: CAMERA SHOWN IS A WALL MOUNTED CCTV CAMERA.

PA-R1 Z02 — SPEAKERS. STEM INDICATES WALL MOUNTING. NO STEM INDICATES CEILING MOUNTING. SPEAKER TYPE IS INDICATED BY CHARACTERS AND NUMBERS ADJACENT TO THE SPEAKER SYMBOL. CHARACTERS BEFORE THE DASH REFER TO CORRESPONDING SYSTEM AS EITHER PUBLIC ADDRESS SPEAKER (PA) OR AUDIO/VISUAL SPEAKER (AV). CHARACTER AFTER THE DASH REFERS TO MOUNTING TYPE, FOLLOWED BY NUMBER INDICATING THE SPEAKER TYPE. MOUNTING TYPES ARE: PENDANT (P), SURFACE (S), OR RECESSED (R). REFER TO PA AND/OR AV SPEAKER SCHEDULE(S) FOR SPEAKER TYPE(S) AND INSTALLATION REQUIREMENTS. FOR PA SPEAKERS, SPEAKER ZONE IS LISTED ON THE 2ND LINE WITH A "Z" FOLLOWED BY A NUMBER WHICH INDICATES THE CORRESPONDING SPEAKER ZONE. EXAMPLE: SPEAKER SHOWN IS A WALL MOUNTED, PUBLIC ADDRESS SPEAKER, WHICH IS RECESSED, AND BELONGS TO SPEAKER ZONE 02.

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".

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.

ELECTRICAL ABBREVIATIONS LIST

1P	1 POLE (2P, 3P, 4P, ETC.)
A	AMPERE
AC	ABOVE COUNTER OR AIR CONDITIONER
ADO	AUTOMATIC DOOR OPENER
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ALT	ALTERNATE
AMP	AMPERE
AQ-STAT	AQUASTAT
ARCH	ARCHITECT, ARCHITECTURAL
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BATT	BATTERY
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CAB	CABINET
CAT	CATALOG
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CMPR	COMPRESSOR
CONT	CONTINUATION OR CONTINUOUS
CONTR	CONTRACTOR
CTR	CENTER
CU	COPPER
C/W	COMPLETE WITH
CP	CALL POINT
DEPT	DEPARTMENT
DISC	DISCONNECT
DIST	DISTRIBUTION
DPR	DAMPER
DW	DISHWASHER
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EXIST	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FIXT	FIXTURE
FR	REFRIGERATOR
FU	FUSE
GR	GAS RANGE
GA	GAUGE
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HOA	HANDS-OFF-AUTOMATIC SWITCH
HP	HORSEPOWER
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
INT	INTERCOM
IPLC	INTELLIGENT PARKING LOT CONTROLLER
I/W	INTERLOCK WITH
J-BOX	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LTG	LIGHTING
LV	LOW VOLTAGE
MAX	MAXIMUM
MAG.S	MAGNETIC STARTER
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MDC	MAIN DISTRIBUTION CENTER
MDP	MAIN DISTRIBUTION PANEL
MEC	MECHANICAL CONTRACTOR
MFR	MANUFACTURER
MIC	MICROWAVE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTR	MOTOR, MOTORIZED
MW	COORDINATED IN MILLWORK
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFDS	NON-FUSED SAFETY DISCONNECT SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OHD	OVERHEAD DOOR
OWL	OCCUPIED WHEN LIT
PA	PUBLIC ADDRESS
PB	PULL BOX OR PUSHBUTTON
PH	PHASE
PNL	PANEL
PP	POWER POLE
PR	PAIR/PRINTER
PT	POTENTIAL TRANSFORMER
PTL	PUSH TO LOCK
PVC	POLYVINYL CHLORIDE (CONDUIT)
PWR	POWER
QP	QUADPLEX RECEPTACLE
R	RELOCATED
RCPT	RECEPTACLE
REQD	REQUIRED
RM	ROOM
RTU	ROOF TOP UNIT
SHT	SHEET
SPEC	SPECIFICATION
SPKR	SPEAKER
SP	SPARE
S/S	STOP/START PUSHBUTTONS
STD	STANDARD
SURF	SURFACE MOUNTED
SW	SWITCH
SWBD	SWITCHBOARD
SYS	SYSTEM
T-STAT	THERMOSTAT
TYP	TYPICAL
UC	UNDER COUNTER
UE	UNDERGROUND ELECTRICAL
UG	UNDERGROUND
UH	UNIT HEATER
UPS	UNINTERRUPTIBLE POWER SUPPLY
UT	UNDERGROUND TELEPHONE
UTIL	UTILITY
V	VOLT
VA	VOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE
VSR	VOLTAGE SENSING RELAY
W	WATT
W/	WITH
WG	WIRE GUARD
WH	WATER HEATER
W/O	WITHOUT
WP	WEATHERPROOF
WS	WASHER
XFMR	TRANSFORMER
XFR	TRANSFER
∠	ANGLE
@	AT
Δ	DELTA
'	FEET
"	INCHES
#	NUMBER
Ø	PHASE

ELECTRICAL DRAWINGS

SYMBOLS & ABBREVIATIONS
E0.1 ELECTRICAL SYMBOLS AND ABBREVIATIONS

SITE PLANS
E1.0 ELECTRICAL SITE PLAN
E1.1 AREA CLASSIFICATION PLAN

DEMOLITION PLANS
ED1.1 ELECTRICAL SITE DEMOLITION PLAN

LIGHTING PLANS
EL2.1 MAIN FLOOR - LIGHTING PLAN
EL2.2 SECOND FLOOR - LIGHTING PLAN

POWER PLANS
EP2.1 MAIN FLOOR - POWER PLAN
EP2.2 SECOND FLOOR - POWER PLAN
EP2.3 ROOF - POWER PLAN

DETAILS
E4.1 ELECTRICAL DETAILS
E4.2 ELECTRICAL DETAILS
E4.3 ELECTRICAL DETAILS

DIAGRAMS
E5.1 ELECTRICAL DIAGRAMS
E5.2 ELECTRICAL DIAGRAMS
E5.3 ELECTRICAL DIAGRAMS

SCHEDULES
E6.1 ELECTRICAL SCHEDULES
E6.2 ELECTRICAL SCHEDULES
E6.3 ELECTRICAL SCHEDULES
E6.4 ELECTRICAL SCHEDULES
E6.5 ELECTRICAL SCHEDULES

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.

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PROVINCE OF MANITOBA — A.O. SOWUNMI — Member 43015 — 2023-02-03 — REGISTERED PROFESSIONAL ENGINEER

Project
WFPS STATION 9
1083 AUTUMNWOOD DRIVE

Sheet Title
ELECTRICAL SYMBOLS AND ABBREVIATIONS

Project No. 22028

Sheet E0.1

CIBINEL - Arch D - 24" X 36"