

POWER & EQUIPMENT SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	DENOTES BACKGROUND OR EXISTING TO REMAIN (E).
	DENOTES DEVICES, EQUIPMENT, ETC. EXISTING TO REMAIN (E).
	DENOTES NEW (N) OR RELOCATED (R) DEVICES, EQUIPMENT, ETC.
	DENOTES DEVICES, EQUIPMENT, ETC. TO BE DISCONNECTED AND REMOVED (D&R).
	DENOTES NEW (N) OR RELOCATED (R) CONDUIT, EQUIPMENT, ETC. UNDERGROUND OR BELOW GRADE.
	BRANCH CKT TURNING UP. BRANCH CKT TURNING DOWN. BRANCH CKT TURNING UP AND DOWN.
	UNDERGROUND, UNDER FLOOR/SLAB DUCTBANK, DIRECT BURIED CABLE, CONDUIT/CONDUCTOR: UT = TELECOM; UE = ELECTRICAL
	HOME RUN. HASH MARKS INDICATE CONDUCTOR QUANTITY. HASH MARKS DEFINED AS SHOWN. "#" INDICATES SIZE OF CONDUCTORS OTHER THAN 12-AWG. ALL UNMARKED HOMERUNS SHALL CONTAIN (2) #12 AWG & (1) #12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED.
	BRANCH CIRCUITING. "ZZZ" INDICATES PANEL DESIGNATION. "#.#.#" INDICATES CIRCUIT NUMBER(S).
	480Y/277 VOLT, 3-PHASE, 4-WIRE ELECTRICAL DISTRIBUTION TYPE PANELBOARD.
	208Y/120 VOLT, 3-PHASE, 4-WIRE ELECTRICAL DISTRIBUTION TYPE PANELBOARD.
	480Y/277 VOLT, 3-PHASE, 4-WIRE, SURFACE MOUNTED ELECTRICAL PANELBOARD.
	208Y/120 VOLT, 3-PHASE, 4-WIRE, SURFACE MOUNTED ELECTRICAL PANELBOARD.
	DRY-TYPE DISTRIBUTION TRANSFORMER.
	NON-FUSED DISCONNECT SWITCH. "AS" INDICATES SWITCH SIZE. "WP" INDICATES WEATHERPROOF (NEMA 3R) ENCLOSURE.
	FUSED DISCONNECT SWITCH. "AF" INDICATES FUSE SIZE. "AS" INDICATES SWITCH SIZE. "WP" INDICATES WEATHERPROOF (NEMA 3R) ENCLOSURE.
	ENCLOSED CIRCUIT BREAKER SWITCH. "AT" INDICATES CIRCUIT BREAKER TRIP RATING. "AF" INDICATES FRAME SIZE. "WP" INDICATES WEATHERPROOF (NEMA 3R) ENCLOSURE.
	MAGNETIC MOTOR STARTER MOUNTED IN A NEMA ENCLOSURE. "H" INDICATES STARTER SIZE. "WP" INDICATES WEATHERPROOF (NEMA 3R) ENCLOSURE.
	COMBINATION STARTER & FUSED DISCONNECT SWITCH. "H" INDICATES STARTER SIZE. "AF" INDICATES FUSE SIZE. "AS" INDICATES SWITCH SIZE. "WP" INDICATES WEATHERPROOF (NEMA 3R) ENCLOSURE.
	COMBINATION VFD STARTER AND DISCONNECT SWITCH. "WP" INDICATES WEATHERPROOF (NEMA 3R) ENCLOSURE.
	EQUIPMENT PROVIDED BY OTHER DIVISIONS REQUIRING ELECTRICAL CONNECTION(S). COORDINATE EQUIPMENT LOCATION, CONNECTION POINT(S), AND OTHER REQUIREMENTS WITH RESPECTIVE DIVISIONS DRAWINGS, SPECIFICATIONS, AND SHOP DRAWINGS. REFER TO EQUIPMENT CONNECTION SCHEDULES FOR ADDITIONAL REQUIREMENTS. EXAMPLES OF EQUIPMENT REQUIRING ELECTRICAL CONNECTION(S) AS FOLLOWS: "XXXX-##" INDICATES MECHANICAL / PLUMBING / FIRE PROTECTION EQUIPMENT DESIGNATIONS, MATCHING LABELS USED IN THOSE DIVISIONS' CONSTRUCTION DOCUMENTS.

OUTLET SYMBOL LEGEND	
SYMBOL	DESCRIPTION
+XX" ZZ##	DUPLEX RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE GROUNDING TYPE, NEMA 5-20R, MOUNTED 18"A.F.F. UNLESS OTHERWISE NOTED. "+XX" INDICATES MOUNTING HEIGHT OTHER THAN 18". "ZZ / ##" INDICATES BRANCH CIRCUITING.
+XX" ZZ##	DOUBLE DUPLEX (QUAD) RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE GROUNDING TYPE, NEMA 5-20R, MOUNTED 18"A.F.F. UNLESS OTHERWISE NOTED. REFER TO ABOVE FOR MOUNTING HEIGHT AND CIRCUITING INFORMATION.
+XX" ZZ##	SINGLE RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE GROUNDING TYPE, NEMA 5-20R, MOUNTED 18"A.F.F. UNLESS OTHERWISE NOTED. REFER TO ABOVE FOR MOUNTING HEIGHT AND CIRCUITING INFORMATION.
+XX" ZZ## X	SPECIAL PURPOSE RECEPTACLE. REFER TO ABOVE FOR MOUNTING HEIGHT AND CIRCUITING INFORMATION. "X" INDICATES THE FOLLOWING: A XX VOLT, X POLE, X WIRE, XX AMP (NEMA X-XXR) COORDINATE EXACT NEMA CONFIGURATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
ZZ##	CEILING MOUNTED DUPLEX RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE GROUNDING TYPE, NEMA 5-20R. REFER TO ABOVE FOR CIRCUITING INFORMATION.
ZZ## X	FLOOR MOUNTED RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE GROUNDING TYPE, NEMA 5-20R. REFER TO ABOVE FOR CIRCUITING INFORMATION. "X" INDICATES THE FOLLOWING: A1 SINGLE GANG WITH SINGLE DUPLEX. SEE DETAIL FOR ADDITIONAL INFORMATION. A2 2-GANG WITH DOUBLE DUPLEX. SEE DETAIL FOR ADDITIONAL INFORMATION.
ZZ## X	FLOOR BOX OR POKE-THROUGH POWER AND TELECOM DEVICE. REFER TO ABOVE FOR CIRCUITING INFORMATION. "X" INDICATES THE FOLLOWING: B 2-GANG FLOOR BOX WITH ONE DUPLEX RECEPTACLE AND SINGLE GANG FOR TELECOM. SEE DETAIL FOR ADDITIONAL INFORMATION. C 3-GANG FLOOR BOX WITH ONE DUPLEX RECEPTACLE AND 2-GANGS FOR TELECOM. SEE DETAIL FOR ADDITIONAL INFORMATION. D 6-GANG FLOOR BOX WITH TWO DUPLEX RECEPTACLES AND 4-GANGS FOR TELECOM AND/OR AUDIO-VISUAL. SEE DETAIL FOR ADDITIONAL INFORMATION. E FIRE RATED POKE-THROUGH. SEE DETAIL FOR ADDITIONAL INFORMATION.
	DEVICE MOUNTED 8' ABOVE COUNTER. REFER TO ABOVE FOR TYPE AND CIRCUITING INFORMATION.
	DEVICE ON EMERGENCY POWER. REFER TO ABOVE FOR TYPE AND CIRCUITING INFORMATION.
	JOB SPECIFIC OPTION. REFER TO ABOVE FOR TYPE AND CIRCUITING INFORMATION.
	RECEPTACLES WITH ADDITIONAL SUBSCRIPT DESIGNATES TYPE OR SPECIFIC REQUIREMENTS AS FOLLOWS: G GROUND FAULT CIRCUIT INTERRUPTER TYPE. DFG DEAD FRONT GROUND FAULT CIRCUIT INTERRUPTER TYPE. AC DEVICE MOUNTED 8' ABOVE COUNTER. AV DEVICE MOUNTED ADJACENT TO TELECOMMUNICATION DEVICE. EWC ELECTRIC WATER COOLER (GFCI TYPE, COORDINATE WITH WATER COOLER). E CIRCUITED TO EMERGENCY POWER. IG ISOLATED GROUND. TR TAMPER RESISTANT TYPE. WP WEATHERPROOF "WHILE-IN-USE" (HUBBELL #WP26E) COVER.
	JUNCTION BOX (SIZED AS REQUIRED PER N.E.C. ARTICLE 314).
m \$	FRACTIONAL HORSEPOWER MOTOR STARTER - 120 VOLT, 20 AMP, 1 POLE, PILOT LIGHT, UNLESS OTHERWISE NOTED.
x D EPO	PUSH BUTTON STATION. "X" INDICATES THE FOLLOWING: DO AUTOMATIC DOOR OPERATOR EPO EMERGENCY POWER OFF

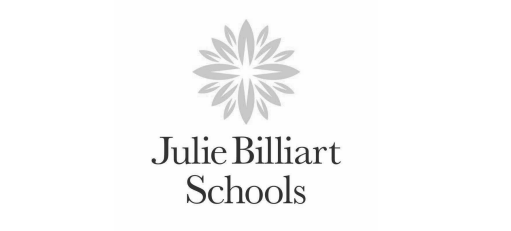
LIGHTING SYMBOL LEGEND	
SYMBOL	DESCRIPTION
ZZZ / #.#.#	ROOM LIGHTING CIRCUIT TAG. ALL FIXTURES IN ROOM/SPACE TO BE CIRCUITED TO PANEL "ZZZ" / CIRCUIT NUMBER(S) "#.#.#" AS INDICATED, UNLESS OTHERWISE NOTED.
X Y #	RECESSED LUMINAIRE. "X" INDICATES TYPE; "Y" INDICATES SWITCHING; "H" BRANCH CIRCUITING. SEE LUMINAIRE SCHEDULE.
X Y #	SURFACE MOUNTED LUMINAIRE. "X" INDICATES TYPE; "Y" INDICATES SWITCHING; "H" BRANCH CIRCUITING. SEE LUMINAIRE SCHEDULE.
NL	LUMINAIRE WITH INTEGRAL EMERGENCY BATTERY PACK OR WIRED TO EMERGENCY CIRCUIT (LIFE SAFETY). "NL" DENOTES NIGHT LIGHT WITH 24/7 OPERATION. SEE LUMINAIRE SCHEDULE.
NL	LUMINAIRE WITH INTEGRAL EMERGENCY BATTERY PACK OR WIRED TO EMERGENCY CIRCUIT (CRITICAL BRANCH). "NL" DENOTES NIGHT LIGHT WITH 24/7 OPERATION. SEE LUMINAIRE SCHEDULE.
	RECESSED DOWN LIGHT OR WALL WASH. SEE LUMINAIRE SCHEDULE.
	SURFACE MOUNTED DOWNLIGHT OR WALL WASH. SEE LUMINAIRE SCHEDULE.
	LINEAR PENDANT MOUNTED LUMINAIRE. SEE LUMINAIRE SCHEDULE.
	ROUND PENDANT MOUNTED LUMINAIRE. SEE LUMINAIRE SCHEDULE.
	WALL MOUNTED LUMINAIRE. SEE LUMINAIRE SCHEDULE.
	TRACK LIGHTING LUMINAIRE SYSTEM. SEE LUMINAIRE SCHEDULE.
	ILLUMINATED EXIT SIGNAGE LUMINAIRE - CEILING MOUNTED. REFER TO PLANS FOR FACING AND CHEVRON CONFIGURATION. SEE LUMINAIRE SCHEDULE.
	ILLUMINATED EXIT SIGNAGE LUMINAIRE - WALL MOUNTED. REFER TO PLANS FOR FACING AND CHEVRON CONFIGURATION. SEE LUMINAIRE SCHEDULE.
	ILLUMINATED EXIT SIGN LUMINAIRE WITH INTEGRAL EMERGENCY HEAD(S). REFER TO PLANS FOR FACING AND CHEVRON CONFIGURATION. SEE LUMINAIRE SCHEDULE.
	EMERGENCY LIGHTING BATTERY UNIT WITH HEADS AS INDICATED. SEE LUMINAIRE SCHEDULE.
	REMOTE MOUNTED EMERGENCY LIGHTING HEAD (SINGLE OR DOUBLE AS INDICATED ON PLANS). SEE LUMINAIRE SCHEDULE.
\$	LINE VOLTAGE TOGGLE SWITCH. 1-POLE, 120V/277V, UNLESS OTHERWISE INDICATED.
	LINE VOLTAGE DIMMER SWITCH, COMPATIBLE WITH LUMINAIRE DIMMING TYPE. 1-POLE, 120V/277V, UNLESS OTHERWISE INDICATED.
EXAMPLE: X \$ \$	LINE VOLTAGE CONTROL DEVICES WITH ADDITIONAL CAPITALIZED ANNOTATION INDICATES THE FOLLOWING TYPE OR ADDITIONAL REQUIREMENT(S): 3 = 3-WAY 4 = 4-WAY D = DUAL TECHNOLOGY OCCUPANCY/VACANCY SENSOR E = CONTROLS EMERGENCY LIGHTING CIRCUIT, RED IN COLOR K = KEY SWITCH L = LIGHTED HANDLE MS = MOMENTARY CONTACT P = PASSIVE INFRARED OCCUPANCY/VACANCY SENSOR PL = PILOT LIGHT T = TIMER SWITCH, 12-HOUR PROGRAMMABLE WITH FLASH WARNING U = ULTRASONIC OCCUPANCY/VACANCY SENSOR
	LOW VOLTAGE DIGITAL SWITCH FOR LOAD CONTROLLER / RELAY CONTROL. REFER TO LIGHTING CONTROL DETAILS.
	LOW VOLTAGE DIGITAL DIMMER SWITCH FOR LOAD CONTROLLER / RELAY CONTROL. REFER TO LIGHTING CONTROL DETAILS.
EXAMPLE: X# \$ \$	LOW VOLTAGE DIGITAL CONTROL DEVICES WITH ADDITIONAL CAPITALIZED ANNOTATION INDICATES THE FOLLOWING TYPE OR ADDITIONAL REQUIREMENT(S): X: D = DUAL TECHNOLOGY OCCUPANCY/VACANCY SENSOR E = CONTROLS EMERGENCY LIGHTING CIRCUIT, RED IN COLOR G = TOUCH SCREEN OR GRAPHIC DISPLAY K = KEY SWITCH P = PASSIVE INFRARED OCCUPANCY/VACANCY SENSOR R = MASTER 2-HOUR OVERRIDE SWITCH S = SCENE CONTROL PUSHBUTTON STATION T = TIMER SWITCH, 12-HOUR PROGRAMMABLE WITH FLASH WARNING U = ULTRASONIC OCCUPANCY/VACANCY SENSOR # 2, 3, 4, ... = QUANTITY OF ZONES / GROUPS CONTROLLED
EXAMPLE: Z# \$ \$	CONTROL DEVICES WITH ADDITIONAL LOWERCASE ANNOTATION INDICATES CONTROL ZONE(S) / GROUP(S): a, d, c, ... = LOCAL / STAND-ALONE ZONE IN ROOM / SPACE n# = NETWORKED ZONE / RELAY ON NORMAL SOURCE e# = NETWORKED ZONE / RELAY ON EMERGENCY SOURCE s# = NETWORKED ZONE / RELAY ON STANDBY SOURCE
	CEILING MOUNTED OCCUPANCY/VACANCY SENSOR WITH 20 AMP RATED POWER PACK. "X" DENOTES THE FOLLOWING: DT DUAL TECHNOLOGY. PI PASSIVE INFRARED. US ULTRASONIC. PD COMBINATION PHOTOCELL/DUAL TECHNOLOGY SENSOR
	PHOTOCELL
	EMERGENCY GENERATOR TRANSFER DEVICE. SEE DETAILS FOR ADDITIONAL INFORMATION.
	SURFACE MOUNTED LIGHTING CONTROL RELAY PANEL. REFER TO DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
	ASTRONOMICAL DIGITALLY CONTROLLED 4 ZONE LIGHTING CONTROL TIME SWITCH - TORK "DLC400BP" WITH PHOTOCELL "EPC2" AND TIMED OVERRIDE SWITCH "SSA200R-24". COORDINATE INITIAL PROGRAMMING WITH OWNER. PROVIDE INITIAL PROGRAMMING AS REQUIRED.
	ELECTRICALLY HELD CONTACTOR. REFER TO WIRING DIAGRAMS FOR ADDITIONAL INFORMATION.

ONE-LINE DIAGRAM SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DENOTES NEW (N) OR RELOCATED (R) BUSSING, FEEDER, ETC.		COMBINATION STARTER AND MOTOR CIRCUIT PROTECTOR.
	AUTOMATIC TRANSFER SWITCH. NUMBER OF POLES AND AMPERAGE RATING AS NOTED OR SCHEDULED.		STARTER AND MOTOR CIRCUIT PROTECTOR SIZES AS NOTED.
	DRY TYPE TRANSFORMER. KVA, PHASE, PRIMARY AND SECONDARY RATING AS NOTED OR SCHEDULED.		COMBINATION STARTER AND FUSED DISCONNECT SWITCH. STARTER, FUSE, AND SWITCH SIZES AS NOTED.
	PANELBOARD. DESIGNATION AS NOTED. SEE PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION.		STARTER AND SWITCH SIZES AS NOTED.
	MOLDED CASE CIRCUIT BREAKER. FRAME AND TRIP SIZES AS NOTED.		THREE PHASE GENERATOR. SIZE AS NOTED OR SCHEDULED.
	MOLDED CASE CIRCUIT BREAKER WITH SHUNT TRIP OPERATOR. FRAME AND TRIP SIZES AS NOTED.		THREE PHASE MOTOR. HORSEPOWER AS NOTED OR SCHEDULED. "XX" INDICATES MOTOR DESIGNATION.
	LOW VOLTAGE FUSED DISCONNECT SWITCH. FUSE AND DISCONNECT SWITCH SIZES AS NOTED.		SPACE IN CIRCUIT BREAKER OR FUSED SWITCH DISTRIBUTION PANELBOARD. FRAME SIZE AS NOTED.
	LOW VOLTAGE DISCONNECT SWITCH. DISCONNECT SWITCH SIZE AS NOTED.		DELTA TO WYE CONNECTED WIRING
	LOW VOLTAGE FUSE. SIZE AS NOTED.		CONTROL POWER TRANSFORMER (CPT) OR POTENTIAL TRANSFORMER (PT).
	SPECIALTY EQUIPMENT/DEVICES. "XX" STANDS FOR THE FOLLOWING: SPD SURGE PROTECTIVE DEVICE. GFP GROUND FAULT PROTECTION. C CONTACTOR. M METERING. EPO EMERGENCY POWER OFF PUSHBUTTON. VFD VARIABLE FREQUENCY DRIVE PROVIDED BY DIVISION 23. EC ELEVATOR CONTROLLER PROVIDED BY DIVISION 14.		NEUTRAL BUS TO GROUND BUS BONDING.
	HAND/OFF/AUTO SWITCH.		MEDIUM VOLTAGE FUSED DISCONNECT SWITCH. FUSE SIZE AS NOTED.
	FEEDER DESIGNATION. REFER TO FEEDER SCHEDULE(S) FOR FEEDER SIZE.		MEDIUM VOLTAGE FUSE. SIZE AS NOTED.
			LOW VOLTAGE BOLTED PRESSURE FUSED SWITCH. FUSE AND DISCONNECT SWITCH SIZES AS NOTED.

ABBREVIATIONS	
GENERAL	
AC	ABOVE COUNTER
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CP	CONTROL PANEL
CR	CRITICAL BRANCH
CT	CURRENT TRANSFORMER
CU	COPPER
EG	EQUIPMENT GROUND
ELEV	ELEVATOR
EM	EMERGENCY
GAP	GENERATOR ANNUNCIATOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GND	GROUND
IG	ISOLATED GROUND
IPP	ISOLATED PPOWER PANEL
LCP	LIGHTING CONTROL PANEL
LS	LIFE SAFETY
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MEGB	MAIN ELECTRIC GROUND BUS
MLO	MAIN LUG ONLY
MTGB	MAIN TECHNOLOGY GROUND BUS
MTGB	MANUAL TRANSFER SWITCH
MTS	NOT IN CONTRACT
(N.I.C.)	NIGHT LIGHT
NL	OCCUPANCY SENSOR
OS	PANEL
PNL	RECEPTACLE
REC	OPTIONAL STAND-BY
SB	SERVICE ENTRANCE
SE	SWITCH
SV	SWITCHBOARD
SWB	UNDER COUNTER
UC	UNDERGROUND
UG	UNINTERRUPTIBLE POWER SUPPLY
UPS	VARIABLE FREQUENCY DRIVE
VFD	VARIABLE FREQUENCY DRIVE
VP	VOLTAJE TRANSFORMER
WT	WHILE IN USE
WU	WEATHERPROOF
WP	WEATHERPROOF
MECHANICAL EQUIPMENT	
AC	AIR CONDITIONING UNIT
ACC	AIR COOLED CHILLER
AHU	AIR HANDLING UNIT
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
CH	CHILLER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
DDC	DIGITAL DIRECT CONTROL
EF	EXHAUST FAN
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
F	FURNACE
FCU	FAN COIL UNIT
FPVAV	FAN-POWERED VARIABLE AIR VOLUME
HP	HEAT PUMP
MAU	MAKE-UP AIR UNIT
P	PUMP
RTU	ROOFTOP UNIT
SAHU	SPLIT SYSTEM AIR HANDLING UNIT
UH	UNIT HEATER
UST	UNDERGROUND STORAGE TANK
VAV	VARIABLE AIR VOLUME



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Issue Description: DEVELOPMENT PLANS		
Revision Schedule		
#	DATE	DESCRIPTION

Project #:	25058
Issue Date:	08/12/2026

E0.01

ELECTRICAL
SYMBOL LEGEND