FIRE ALARM SYMBOLS LEGEND

(VS)	DUCT SMOKE DETECTOR. FURNISHED BY FIRE ALARM CONTRACTOR, INSTALLED ON DUCT BY MECHANICAL CONTRACTOR. LOCATIONS ON DRAWINGS ARE FOR SYMBOLIC REFERENCE ONLY. DETECTORS WILL BE LOCATED BY THE MECHANICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT TO DETECTOR. FIRE ALARM CONTRACTOR SHALL PROVIDE ALL WIRE AND MAKE ALL TERMINATIONS TO FIRE ALARM SYSTEM. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. FIRE ALARM CONTRACTOR SHALL PROVIDE/INSTALL REMOTE ANNUNCIATORS WHERE NECESSARY.REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
(S)	CEILING MOUNTED SMOKE DETECTOR.
(H)	HEAT DETECTOR.
(M)	MAGNETIC DOOR HOLD.
F	DOUBLE ACTION FIRE ALARM PULL STATION MOUNTED AT 3'-8" AFF TO THE BOTTOM OF BOX.
30CD	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE MOUNTED AT 7'-4" AFF TO THE BOTTOM OF BOX. DEVICE SHALL BE SUITABLE FOR USE WITH A VOICE EVACUATION SYSTEM. CANDELA VALUE SHOWN IS FOR REFERENCE PURPOSES ONLY. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR CODE COMPLIANCE.
30CD	FIRE ALARM VISUAL NOTIFICATION DEVICE MOUNTED AT 7'-4" AFF TO BOTTOM OF BOX. CANDELA VALUE SHOWN IS FOR REFERENCE PURPOSES ONLY. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR CODE COMPLIANCE.
30CD	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE CEILING MOUNTED. DEVICE SHALL BE SUITABLE FOR USE WITH A VOICE EVACUATION SYSTEM. CANDELA VALUE SHOWN IS FOR REFERENCE PURPOSES ONLY. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR CODE COMPLIANCE.
30CD	FIRE ALARM VISUAL NOTIFICATION DEVICE CEILING MOUNTED. CANDELA VALUE SHOWN IS FOR REFERENCE PURPOSES ONLY. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR CODE COMPLIANCE.
A	FIRE ALARM AUDIO SPEAKER, SUITABLE FOR USE WITH A VOICE EVACUATION SYSTEM, MOUNTED AT 8'-6" AFF TO THE BOTTOM OF THE BOX.
A	CEILING MOUNT FIRE ALARM AUDIO SPEAKER, SUITABLE FOR USE WITH A VOICE EVACUATION SYSTEM.
FS	FLOW SWITCH PROVIDED BY FIRE PROTECTION CONTRACTOR. INTERCONNECTION BY FIRE ALARM CONTRACTOR.
TS	TAMPER SWITCH PROVIDED BY FIRE PROTECTION CONTRACTOR. INTERCONNECTION BY FIRE ALARM CONTRACTOR.
	FIRE ALARM CONTROL PANEL, SEE SPECIFICATIONS

ELECTRICAL ABBREVIATONS

AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECT
BKR	BREAKER
BOB	BOTTOM OF BOX
BP	BREAKER PANEL
BLDG	BUILDING
CAP	CAPACITY
CKT	CIRCUIT
CB	CIRCUIT BREAKER
C	CONDUIT
COMM	COMMUNICATIONS
CONN	CONNECTION
CONST	CONSTRUCTION
CONTR	CONTRACT (OR)
CLL	CONTRACT LIMIT LINE
CT	CURRENT TRANSFORMER
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRIC (AL)
EWC	ELECTRIC WATER COOLER
EMERG/EM	EMERGENCY
ENGR	ENGINEER
ENT	ENTRANCE
EQ	EQUAL/EQUIPMENT
EQUIP	EQUIPMENT
EST	ESTIMATE
EF	EXHAUST FAN
EX	EXISTING
EXTR	EXTINGUISHER
FASTN	FASTEN (ER)
FA	FIRE ALARM
FE	FIRE EXTINGUISHER
FP	FIRE PROOF / FIRE PROTECTION
FLUOR	FLUORESCENT
FBO	FURNISHED BY OTHERS
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPT
GRD	GROUND
HORIZ	HORIZONTAL
HTR	HEATER
HTG	HEATING
HV	HEATING / VENTILATING
HVAC	HEATING, VENTILATING, AIR CONDITIONING
HOA	HAND - OFF - AUTOMATIC
HP	HEAT PUMP
INTLK	INTERLOCK
JCT	JUNCTION
JB	JUNCTION BOX
KW	KILOWATT
KWH	KILOWATT HOUR
KO	KNOCK OUT
LBL	LABEL
LT	LIGHT
LC	LIGHT CONTROL
LTG	LIGHTING
LP	LIGHTPOLE
LP	LIGHTING PANEL
M.C.	MOMENTARY CONTACT
NEC	NATIONAL ELECTRIC CODE
NEG	NEGATIVE (-)
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
PC	PHOTO CELL
NO	NUMBER
POS	POSTIVE (+)
PWR	POWER
P & L	POWER & LIGHTING
PP	POWER PANEL
PP	POWER POLE
SP	SINGLE POLE
SPKR	SPEAKER
SPEC	SPECIFICATION
SSU	SQUSSMAN PLUG FUSE DISCONECT SWITCH
SUB	SUBSTITUTE
TEL	TELEPHONE
TV	TELEVISION
T'STAT	THERMOSTAT
XFMR	TRANSFORMER
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
WP	WEATHER PROOF

LIGHTING SYMBOLS LEGEND

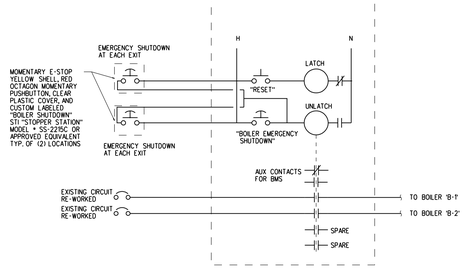
$	SINGLE POLE LIGHT SWITCH MOUNTED 44" AFF TO THE BOTTOM OF THE DEVICE BOX.
$3	THREE WAY LIGHT SWITCH MOUNTED AT 44" AFF TO THE BOTTOM OF THE DEVICE BOX
$4	FOUR WAY LIGHT SWITCH MOUNTED AT 44" AFF TO THE BOTTOM OF THE DEVICE BOX
$K	KEYED LIGHT SWITCH MOUNTED AT 44" AFF TO THE BOTTOM OF THE DEVICE BOX
$LV	LOW VOLTAGE LIGHTING CONTROL STATION. REFER TO SPECIFICATIONS.
$T	LIGHT SWITCH WITH ELECTRONIC TIMER AND LCD COUNTDOWN MOUNTED AT 44" AFF TO THE BOTTOM OF THE DEVICE BOX
$P	LIGHT SWITCH WITH PILOT LIGHT MOUNTED AT 44" AFF TO THE BOTTOM OF THE DEVICE BOX
$PS	PRESET DIMMING STATION MOUNTED AT 44" AFF TO THE BOTTOM OF THE DEVICE BOX
$D	DIMMER LIGHT SWITCH, REFER TO SPECIFICATIONS FOR TYPE. MOUNT AT 44" AFF TO THE BOTTOM OF THE DEVICE BOX
A	2'x4' LUMINARE TYPE "A"
A	LUMINARE TYPE "A" FOR EMERGENCY ILLUMINATION. BACKUP TO BE PROVIDED BY EMERGENCY BATTERY PACK. REFER TO DRAWINGS AND SPECIFICATIONS.
A	ROUND LUMINARE TYPE "A". CHECK LUMINARE SCHEDULE FOR DIMENSIONS.
A	ROUND WALL WASH LUMINARE TYPE "A" WITH ARROW TO INDICATE ORIENTATION OF OPTICS.
A	ROUND LUMINARE TYPE "A" FOR EMERGENCY ILLUMINATION. POWERED BY BATTERY PACK. REFER TO DRAWINGS AND SPECIFICATIONS.
A	WALL SCONCE TYPE "A". REFER TO LUMINARE SCHEDULE FOR MOUNTING DETAILS.
XT	CEILING MOUNTED "EXIT" SIGN TYPE "XT" WITH DIRECTIONAL ARROWS SHOWN ON THE PLAN.
XT	WALL MOUNTED OR RECESSED "EXIT" SIGN TYPE "XT" WITH DIRECTIONAL ARROWS SHOWN ON THE PLAN.
XT	CEILING MOUNTED "EXIT" SIGN TYPE "XT".
XT	WALL MOUNTED OR RECESSED "EXIT" SIGN TYPE "XT".
(OS)	OCCUPANCY SENSOR TYPE 1 WITH ORIENTATION SHOWN.
PC	PHOTO CELL.

ELECTRICAL GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING LUMINARE LOCATIONS IN BULKHEADS.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR AND THE ELECTRIC WATER COOLER SHOP DRAWINGS FOR E.W.C. POWER CONNECTION.
3. ELECTRICAL CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR LOCATING THE EXHAUST FANS LISTED IN MECHANICAL EQUIPMENT LIST/SCHEDULE BY REFERRING TO THE HVAC PLANS.
5. FEEDERS SHOWN ON DRAWINGS ARE SCHEMATIC ONLY. CONDUIT RUNS SHALL COMPLY WITH CONDUIT SPECIFICATIONS AND CONTAIN NO GREATER THAN 90 DEG. BENDS. CONDUITS SHALL BE RUN PARALLEL TO OR PERPENDICULAR WITH BUILDING LINES AND STEEL.
6. REFER TO MECH. PLANS FOR EXACT LOCATIONS OF ROOF-TOP MECHANICAL EQUIPMENT. ALL ROOFTOP EQUIPMENT REQUIRES WEATHERPROOF, GFI RECEPTACLE MOUNTED ON THAT PIECE OF EQUIPMENT (EXCLUDING SMALLER EXHAUST FANS) CIRCUIT WITH RECEPTS IN SPACE BELOW.
7. ELECTRICAL CONTRACTOR SHALL REVIEW TOILET EQUIPMENT SHOP DRAWINGS FOR CORRECT DEVICE BOX ROUGH-IN LOCATION OF HAND AND HAIR DRYERS.
8. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW INTERIOR ELEVATION SHEETS FOR PLACEMENT OF DEVICE BOXES. COORDINATE LOCATIONS OF DEVICE BOXES SO AS NOT TO BE INSTALLED BEHIND MARKERBOARDS, TACKBOARDS, MIRRORS, ETC.
9. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ROUGH-IN, SINGLE-GANG BOXES FOR HVAC, TEMPERATURE CONTROL SENSORS ON ALL OCCUPIED ROOMS. IN ADDITION TO THE BOX, 3/4" CONDUIT TO THE NEAREST CABLE TRAY. COORDINATE WITH TEMPERATURE CONTROLS CONTRACTOR FOR SPECIFIC REQUIREMENT.
10. ELEC. CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE MECHANICAL EQUIPMENT LIST AND PROVIDING ITEMS LISTED "AS PROVIDED BY E.C.", SUCH AS STARTERS, TIMERS, ETC.
11. ALL FLUORESCENT LAMPS SHALL HAVE A COLOR TEMPERATURE OF 3500K AND CRI>/- 80.
12. CIRCUIT WIRING FOR THE EMERGENCY SYSTEMS SHALL BE INSTALLED IN SEPARATE CONDUIT/RACEWAY AND BE KEPT ENTIRELY INDEPENDENT OF ALL OTHER WIRING AND EQUIPMENT PER N.E.C.
13. ALL FEEDER AND BRANCH CIRCUITS TO PANELS, MOTORS, LIGHTS, RECEPTACLES, EQUIPMENT, GENERAL DISTRIBUTION, ETC. SHALL CONTAIN AN EQUIPMENT GROUNDING CONDUCTOR SIZED ACCORDING TO THE N.E.C. THE CONDUIT SYSTEM SHALL NOT BE CONSIDERED AN ACCEPTABLE GROUND.
14. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT AND WIRE BETWEEN THE OCCUPANCY SENSORS AND RELAY CONTROL PANEL, AND/OR BETWEEN OCCUPANCY SENSORS, SWITCHES, AND LIGHT FIXTURES. THIS ALSO INCLUDES, BUT IS NOT LIMITED TO WIRES FROM THE PHOTOCELL TO THE LIGHTING RELAY PANEL. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
15. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE VARIABLE FREQUENCY DRIVES PROVIDED BY TEMPERATURE CONTROLS CONTRACTOR.
16. CIRCUIT ALL EXIT SIGNS AND EMERGENCY BATTERY BACK-UP BALLASTS TO THEIR RESPECTIVE NON SWITCHED LOCAL LIGHTING CIRCUIT.
17. ADJUST LUMINARE PLACEMENT AS MECHANICAL SYSTEMS TO ACCOMMODATE EQUIPMENT AND FIELD CONDITIONS. ALL LIGHTS SHALL BE LADDER ACCESSIBLE BY THE OWNER FOR FUTURE MAINTENANCE.
18. THE USE OF MC CABLE SHALL BE LIMITED TO FIXTURE WHIPS FROM A HARD CONDUIT SYSTEM. "DAISY CHAINING" OF LIGHT FIXTURES IS NOT PERMITTED. REFER TO SPECIFICATION FOR ADDITIONAL INFO.
19. THE TEMPERATURE CONTROLS CONTRACTOR IS RESPONSIBLE TO PROVIDE 120VAC OR 24VAC POWER TO GENERAL PURPOSE MOTORIZED DAMPERS SHOWN ON MECHANICAL DRAWINGS PER SPECIFICATIONS. THE E.C. SHALL PROVIDE POWER TO SMOKE DAMPERS AND DUCT SMOKE DETECTORS AS SHOWN ON DRAWINGS, COORDINATE WITH ALL TRADES AS NECESSARY.
20. WHERE OCCUPANCY SENSORS ARE SHOWN IN A ROOM WITH LIGHTS CONNECTED TO A LIGHTING CONTROL PANEL, SENSOR SHALL ALSO BE WIRED TO THE CONTROL PANEL. IF SENSOR IS SHOWN IN A SPACE WITH STANDARD TOGGLE SWITCHES, E.C. SHALL WIRE SENSOR NETWORK TO ALL LIGHT SWITCHES IN THE ROOM, INCLUDING UNDERCABINET LIGHT SWITCHES.
21. ALL LOW-VOLTAGE CABLING, INCLUDING FIRE ALARM AND LIGHTING CONTROL CABLING, SHALL BE RUN IN 3/4" MINIMUM CONDUIT.

ELECTRICAL SYMBOLS LEGEND

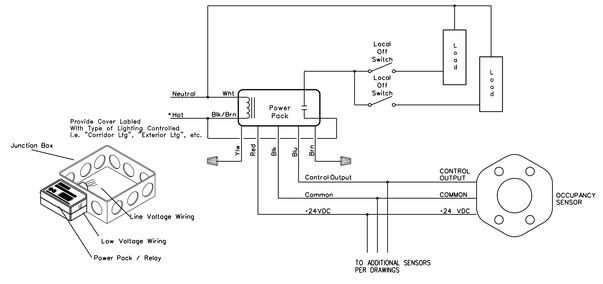
3	THREE PHASE MOTOR CONNECTION, 3 HORSE POWER
1/3	SINGLE PHASE MOTOR CONNECTION, 1/3 HORSE POWER
	HEAVY DUTY DISCONNECT
	HEAVY DUTY FUSED DISCONNECT
	COMBINATION MOTOR STARTER & FUSED DISCONNECT
	DIRECT ELECTRICAL CONNECTION
BP-A1	BREAKER PANEL 'A1'
LP-A1	LIGHTING PANEL 'A1'
LCP-A1	LIGHTING CONTOL PANEL 'A1'
PP-1	POWER (277/480) DISTRIBUTION PANEL '1'
DP-1	DISTRIBUTION PANEL '1' (120/208)
	HEAVY DUTY DISCONNECT
	HEAVY DUTY FUSED DISCONNECT
	COMBINATION DISCONNECT AND MOTOR STARTER
VFD	VARIABLE FREQUENCY DRIVE FURNISHED BY MECHANICAL TRADES, INSTALLED BY ELECTRICAL CONTRACTOR.
	TRANSFORMER WITH 4" CONCRETE HOUSEKEEPING PAD
	DUPLEX RECEPTACLE MOUNTED VERTICAL AT 16" AFF TO THE BOTTOM OF THE DEVICE BOX (TYPICAL UNLESS OTHERWISE NOTED)
	SINGLE RECEPTACLE MOUNTED VERTICAL AT 16" AFF TO THE BOTTOM OF THE DEVICE BOX, (TYPICAL UNLESS OTHERWISE NOTED
44"	DUPLEX RECEPTACLE MOUNTED VERTICAL AT 44" AFF TO THE BOTTOM OF THE DEVICE BOX.
GFCI	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER MOUNTED VERTICAL AT 16" AFF TO THE BOTTOM OF THE DEVICE BOX. EACH RECEPTACLE MUST HAVE TEST AND RESET BUTTONS. (TYPICAL UNLESS OTHERWISE NOTED)
WP GFCI	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER WITH WHILE-IN-USE CAST ALUMINUM WEATHERPROOF COVER PLATE MOUNTED VERTICAL AT 16" AFF TO THE BOTTOM OF THE DEVICE BOX (TYPICAL UNLESS OTHERWISE NOTED).
	QUADPLEX SPLIT WIRED RECEPTACLE MOUNTED AT 16" AFF TO THE BOTTOM OF THE DEVICE BOX (TYPICAL UNLESS OTHERWISE NOTED).
	QUADRAPLEX RECEPTACLE MOUNTED VERTICAL AT 16" AFF TO THE BOTTOM OF THE DEVICE BOX (TYPICAL UNLESS OTHERWISE NOTED)
	208V SINGLE PHASE RECEPTACLE. ELECTRICAL CONTRACTOR SHALL VERIFY PLUG CONFIGURATION REQUIRED FOR ALL EQUIPMENT PRIOR TO INSTALLATION.
	208V MULTIPHASE RECEPTACLE. SHALL BE NEMA TYPE 6-30R UNLESS NOTED. ELECTRICAL CONTRACTOR SHALL VERIFY TYPE REQUIRED FOR ALL EQUIPMENT PRIOR TO INSTALLATION.
TV	DUPLEX RECEPTACLE AND FUTURE CATV JACK MOUNTED AT 80" AFF OR 6" BELOW CEILING, ROUGH-IN TO BE A 2-GANG BOX WITH SINGLE GANG PLASTER RING WITH (2) 1" CONDUITS STUBBED UP ABOVE ACCESSIBLE CEILING.
FB1	FLOOR BOX, TYPE 1 (REFER TO SPEC'S), MULTIPLE COMPARTMENT FLUSH FLOOR BOX TO ACCEPT BOTH POWER AND VOICE/DATA DEVICES. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EXTEND DATA CONDUITS FROM BOX TO NEAREST CABLE TRAY.
	COMMUNICATIONS DEVICE BOX, 4-11/16" SQUARE BOX WITH SINGLE GANG DEVICE RING, (2) 1" CONDUITS RUN CONTINUOUSLY FROM BOX TO ABOVE ACCESSIBLE CEILING. MOUNT DEVICE BOX AT SAME HEIGHT AS NEAREST POWER RECEPTACLE BOX, UNLESS NOTED. IF UNLABELED, PROVIDE WITH BLANK COVER PLATE.
CR	PROXIMITY CARD READER ROUGH-IN LOCATED AT 36" AFF TO THE BOTTOM OF THE DEVICE BOX (UNLESS OTHERWISE NOTED). COORDINATE ROUGH-IN BOX SIZE WITH OWNER'S SECURITY CONTRACTOR.
	SECURITY DOOR CONTACTS. THE ELECTRICAL CONTRACTOR SHALL INSTALL (1) 3/4" CONDUIT TO THE DOOR FRAME FOR FUTURE DOOR CONTACTS. EXTEND CONDUIT TO ABOVE ACCESSIBLE CEILING.
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BAR. REFER TO SPECIFICATION.
TGB	TELECOMMUNICATIONS GROUNDING BAR. REFER TO SPECIFICATION.
	ADA DOOR OPERATOR MOUNTED AT 44" AFF TO BOTTOM OF BOX. COORDINATE REQUIRED ROUGH-IN SIZE WITH DOOR HARDWARE PROVIDER.
C	CLOCK: REFER TO SPECIFICATIONS FOR TYPE DIFFERENTIATION.
S	SPEAKER: REFER TO SPECIFICATIONS FOR TYPE DIFFERENTIATION.
VOL	VOLUME CONTROL, WALL MOUNTED AT 44" AFF TO BOTTOM OF DEVICE BOX.
JB	JUNCTION BOX, SIZE AND TYPE AS REQUIRED.
T	LINE VOLTAGE THERMOSTAT FURNISHED BY OTHERS, WIRED AND INSTALLED BY E.C.
CAM	SURVEILLANCE CAMERA TYPE 1 (PROVIDED BY OWNER). E.C. SHALL INSTALL (1) 1" CONDUIT FORM A SINGLE GANG ROUGH-IN BOX IN THIS LOCATION TO NEAREST CABLE TRAY.
	(1) 2" STEEL CONDUIT SLEEVE WITH FIRESTOP END CAP
RTS	DUCT SMOKE DETECTOR REMOTE TEST SWITCH MOUNTED AT 44" TO THE BOTTOM OF THE DEVICE BOX UNLESS OTHERWISE NOTED.
ES	ACCESS CONTROLS ELECTRIC STRIKE CONNECTION, SEE SPECIFICATIONS. PROVIDE 3/4" ROUGH IN TO DOOR FRAME.
EP	ACCESS CONTROLS ELECTRIC PANIC HARDWARE CONNECTION, SEE SPECIFICATIONS. PROVIDE 3/4" ROUGH-IN TO DOOR FRAME.
DC	ACCESS CONTROLS DOOR CONTACT



PROVIDE (1) NEW 30A, 4 POLE MECHANICALLY HELD CONTACTOR WITH 120V COILS, AND MOMENTARY RESET AND E-STOP PUSH BUTTONS IN NEMA 1 ENCLOSURE. PROVIDE ENGRAVED NAMEPLATE INDICATING FUNCTION AT EACH PUSHBUTTON -"EMERGENCY BOILER SHUTDOWN" OR "RESET". PROVIDE A MINIMUM OF ONE N.O. AND ONE N.C. AUX. CONTACT FOR CONNECTION TO BMS. PROVIDE ENGRAVED NAMEPLATE ON ENCLOSURE WITH "BOILER EMERGENCY SHUTDOWN CONTROL" ENGRAVED IN 1/2" LETTERS AND "CAUTION MULTIPLE POWER SOURCES" ENGRAVED IN 1/4" LETTERS.

2 E7.01 EMERGENCY BOILER SHUTOFF DETAIL
N.T.S.

CONNECTION SCHEMATICS ARE SHOWN FOR REFERENCE ONLY. VERIFY WITH MANUFACTURER'S DIAGRAMS PRIOR TO INSTALLATION.



1 E7.01 TYPICAL OCCUPANCY SENSOR LIGHTING CONTROL DETAIL (BASED ON WATTSTOPPER)
N.T.S.

1/8"=1' path 11:50:12 AM
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SYMBOL LEGENDS & DETAILS

E7.01