

| | | | |
|--------|---------------------------------------|--------|---|
| A | AMPERE | MC | MICROPHONE |
| AC | ALTERNATING CURRENT | MICRO | MICROWAVE |
| AFF | ABOVE FINISHED FLOOR | MLO | MAIN LUG ONLY MOUNT |
| AFG | ABOVE FINISHED GRADE | MT | MOUNT |
| AHU | AIR HANDLING UNIT | MTS | MANUAL TRANSFER SWITCH |
| AIC | AMPERES INTERRUPTING CAPACITY | MCP | MOTOR CONTROL PANEL |
| ATS | AUTOMATIC TRANSFER SWITCH | MH | METAL HALIDE |
| AWG | AMERICAN WIRE GAUGE | MDP | MAIN DISTRIBUTION PANEL |
| BAS | BUILDING AUTOMATION SYSTEM | MIN | MINIMUM |
| BKBD | BACKBOARD | N | NEUTRAL |
| C | CONDUIT | NC | NORMALLY CLOSED |
| CAT | CATALOG, CATEGORY | NEC | NATIONAL ELECTRICAL CODE |
| CATV | CABLE TV | NEMA | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION |
| CB | CIRCUIT BREAKER | NFPA | NATIONAL FIRE PROTECTION ASSOCIATION |
| CCTV | CLOSED CIRCUIT TELEVISION | NIC | NOT IN CONTRACT |
| CM | CIRCULAR MILS | NF | NON-FUSED |
| COMM | COMMUNICATIONS | NO | NORMALLY OPEN |
| CU | MECH CONDENSING UNIT | NO., # | NUMBER |
| CU | COPPER | NTS | NOT TO SCALE |
| CUH | CABINET UNIT HEATER | OC | ON CENTER |
| DC | DIRECT CURRENT | OCC | OCCUPANCY |
| DDC | DIGITAL DIRECT CONTROL | OH | OVERHEAD |
| DN | DOWN | P | POLE |
| DW | DISHWASHER | PA | PUBLIC ADDRESS |
| DWG | DRAWING | PH. | PHASE |
| EF | EXHAUST FAN | PIR | PASSIVE INFRARED |
| ELEV | ELEVATOR | PNL | PANELBOARD |
| EMT | ELECTRICAL METALLIC TUBING | PIO | PART OF |
| EP | EXPLOSION PROOF | PVT | PHOTOVOLTAIC |
| ERU | ENERGY RECOVERY UNIT | PVC | POLY-VINYL CHLORIDE |
| EWC | ELECTRIC WATER COOLER | REC | RECEPTACLE |
| FACP | FIRE ALARM CONTROL PANEL | RECEPT | RECEPT |
| FB | FLOOR BOX | REF | REFRIGERATOR |
| FLA | FULL LOAD AMPS | RF | RETURN FAN |
| FWE | FURNISHED WITH EQUIPMENT | RGS | RIGID GALVANIZED STEEL |
| G, GND | GROUND | RM | ROOM |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER | RMC | RIGID METAL CONDUIT |
| GFP | GROUND FAULT PROTECTION | RTU | ROOFTOP UNIT |
| HID | HIGH INTENSITY DISCHARGE | REF | REFRIGERATOR |
| HOA | HAND-OFF-AUTO SELECTOR SWITCH | SF | SUPPLY FAN |
| HP | HORSEPOWER | SPDT | SINGLE POLE, DOUBLE THROW SWITCH |
| HVAC | HEATING, VENTILATION AND COOLING UNIT | SQ | SQUARE |
| IDS | INTRUSION DETECTION SYSTEM | TEL | TELEPHONE |
| IG | ISOLATED GROUND | TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSOR |
| IMC | INTERMEDIATE METAL CONDUIT | TYP | TYPICAL |
| IR | INFRARED | UF | UNDER FLOOR |
| K | KILO | UG | UNDERGROUND |
| KMIL | KILO CIRCULAR MILS | UH | UNIT HEATER |
| KW | KILOWATT | UL | UNDERWRITER'S LABORATORY |
| KVA | KILO VOLT-AMPS | UNO | UNLESS NOTED OTHERWISE |
| LAN | LOCAL AREA NETWORK | UPS | UNINTERRUPTIBLE POWER SUPPLY |
| LC | LIGHTING CONTACTOR | V | VOLTS |
| LF | LINEAR FEET | VFD | VARIABLE FREQUENCY DRIVE |
| LC | LOADCENTER | W | WATT |
| LCP | LIGHTING CONTROL PANEL | WP | WEATHERPROOF |
| LED | LIGHT EMITTING DIODE | WG | WIREGUARD |
| LTG | LIGHTING | XFMR | TRANSFORMER |
| LTS | LIGHTS | (E) | EXISTING ITEM TO REMAIN |
| MAX | MAXIMUM | (R) | REMOVE ITEM AND DISPOSE OF PROPERLY |
| MCB | MAIN CIRCUIT BREAKER | (ER) | RELOCATED ITEM AT NEW LOCATION |
| MECH | MECHANICAL | (RL) | REMOVE AND RELOCATE |
| MH | MOUNTING HEIGHT | | |

SEC SECURITY PANEL, FURNISHED BY OWNER'S VENDOR, 120V POWER BY DIVISION 26

ANN ANNUNCIATOR, MOUNT WITH TOP OF PANEL NOT MORE THAN 72" AFF

KP KEYPAD MOUNT 48" AFF - PROVIDE 1-GANG BOX WITH 1/2" C TO ABOVE NEAREST ACCESSIBLE CEILING AND 4-CONDUCTOR 18AWG CABLE TO SECURITY PANEL

CC CAMERA MOUNTED TO WALL - PROVIDE DATA OUTLET AND CATEGORY 6 CABLE TO DATA RACK

CC CAMERA MOUNTED IN CEILING OR SOFFIT - PROVIDE DATA OUTLET AND CATEGORY 6 CABLE TO DATA RACK

CA CARD ACCESS SYSTEM, SEE DETAIL D8/EP501R

DC DOOR CONTACT - SEE DETAIL D8/EP501R

DL MAGNETIC DOOR LOCK

DR DOOR RELEASE BUTTON

DS DOOR SWITCH

IM SECURITY MOTION SENSOR, MOUNTED TO WALL - MOUNT 6" ON CENTER BELOW CEILING, PROVIDE 1-GANG BOX WITH 1/2" C TO ABOVE NEAREST ACCESSIBLE CEILING AND 4-CONDUCTOR 22AWG CABLE TO SECURITY PANEL

CM SECURITY MOTION SENSOR, MOUNTED IN CEILING - MOUNT 6" ON CENTER BELOW CEILING, PROVIDE 1-GANG BOX WITH 1/2" C TO ABOVE NEAREST ACCESSIBLE CEILING AND 4-CONDUCTOR 22AWG CABLE TO SECURITY PANEL

F3 SECURITY SYSTEM

| | |
|----------|--|
| NO SCALE | |
| \$a | LIGHT SWITCH, 20A, 125/277V |
| \$3 | THREE-WAY LIGHT SWITCH |
| \$4 | FOUR-WAY LIGHT SWITCH |
| \$2 | TWO-POLE SWITCH |
| \$K | KEY OPERATED SWITCH |
| \$M | MOTOR RATED SWITCH |
| \$P | SINGLE POLE SWITCH WITH RED PILOT LIGHT - RED LIGHT SHALL GLOW WHEN CIRCUIT IS ENERGIZED |
| \$a | MULTI-GANGED SWITCHES, GANG UNDER ONE PLATE, LETTER INDICATES SWITCHING |
| \$os | OCCUPANCY SENSOR SWITCH, WALL MOUNTED |
| \$os2 | 2-BUTTON OCCUPANCY SENSOR SWITCH |
| \$os3 | OCCUPANCY SENSOR SWITCH WIRED FOR 3-WAY OPERATION |
| OS | OCCUPANCY SENSOR, CEILING MOUNTED |
| OS | OCCUPANCY SENSOR, WALL MOUNTED |
| \$D | DIMMER SWITCH - COORDINATE DIMMING TECHNOLOGY WITH LOAD TO BE DIMMED |
| \$H | HANDICAP SWITCHES FOR HOOD LIGHT AND FAN |
| \$T | TIMER SWITCH, 60 MINUTES |
| \$Lv | LOW VOLTAGE LIGHT SWITCH, MOMENTARY CONTACT |
| LTC | LIGHTING TIME CLOCK |
| LC | LIGHTING CONTACTOR |
| LCP | LIGHTING CONTROL PANEL |
| PC | PHOTOCELL |

NOTES:

- MOUNT LIGHT SWITCHES WITH CENTERLINE 48" AFF, UNO
- LOWER CASE LETTER AT SWITCH INDICATES SWITCHING

EM HATCHING INDICATES FIXTURE EQUIPPED WITH EMERGENCY BATTERY DRIVER. CONNECT TO BOTH SWITCHED AND UNSWITCHED PORTION OF LIGHTING CIRCUIT IN ACCORDANCE WITH EMERGENCY BATTERY DRIVER MANUFACTURER'S INSTRUCTIONS. "EM" INDICATES EMERGENCY WHERE SYMBOL HATCHING IS UNCLEAR.

EXIT SIGN CEILING MOUNTED, SHADING INDICATES FACE(S) ARROWHEAD INDICATES CHEVRON(S) REQUIRED, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.

EXIT SIGN, WALL MOUNTED, SHADING INDICATES FACE(S) MOUNT AT 7'-6" AFF OR OVER DOOR, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.

ROOM NUMBER
XX - LIGHTING CIRCUIT NUMBER OR RELAY NUMBER FOR ROOM

REFER TO LUMINAIRE SCHEDULE FOR FIXTURE TYPES.

TYPICAL FOR ALL FIXTURE TYPES:

INDICATES LUMINAIRE TYPE ON SCHEDULE

F1 - LOWER CASE LETTER INDICATES SWITCHING

- INDICATES CIRCUIT NUMBER

NOTES:

- MOUNT RECEPTACLES WITH CENTERLINE 18" AFF UNO
- MOUNT EXTERIOR RECEPTACLES WITH CENTERLINE 24" AFF UNO

NOTE

SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT NECESSARILY INDICATE THEIR INCORPORATION INTO THE DESIGN

- BRANCH CIRCUIT WIRING NOT SHOWN. WIRE AND CONNECT ELECTRICAL ITEMS TO CIRCUITS INDICATED.
- DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ELECTRICAL CONDUIT, WIRING, DEVICES, BOXES, FIXTURES, EQUIPMENT, ETC. AS INDICATED AND AS REQUIRED TO FACILITATE THE WORK OF DIVISION 26 AND OTHER DIVISIONS. THESE DRAWINGS ARE NOT INTENDED TO INDICATE ALL ITEMS TO BE REMOVED.
- DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR EXACT DIMENSIONS.
- THE LOCATION OF EQUIPMENT, OUTLETS, ETC. AS GIVEN ON THE DRAWINGS IS APPROXIMATE. IT SHALL BE UNDERSTOOD THAT THESE LOCATIONS ARE SUBJECT TO MODIFICATION AS MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME OF INSTALLATION IN ORDER TO MEET PROJECT REQUIREMENTS. SUCH CHANGES SHALL BE MADE WITHOUT EXTRA CHARGE.
- COORDINATE ALL WORK WITH OTHER DIVISIONS AND THE OWNER.
- VERIFY EXACT POWER REQUIREMENTS OF EQUIPMENT PRIOR TO ROUGH IN
- POWER WIRING FOR EQUIPMENT & CONTROL SHALL BE PERFORMED BY DIVISION 26. ALL CONTROL WIRING OPERATING AT LESS THAN 120 VOLTS FOR MECHANICAL EQUIPMENT SHALL BE BY DIVISION 23.
- NO WIRING THAT BECOMES UNUSED AS PART OF THIS PROJECT SHALL BE ABANDONED IN PLACE.
- COORDINATE EXACT LOCATIONS OF LUMINAIRES WITH ARCHITECT PRIOR TO ROUGH-IN. CONFIRM LOCATIONS OF ALL ITEMS WITH ARCHITECT.
- ALIGN DEVICES VERTICALLY WHENEVER POSSIBLE, E.G. FA STROBE ALIGNING WITH SWITCH NEXT TO DOORS OF BATHROOMS, ETC

F5 GENERAL NOTES

- 20A, 125V, 2P, 3W, NEMA 5-20R
 - 20A, 125V, 2P, 3W, NEMA L5-20R (TWISTLOCK)
 - 30A DRYER RECEPTACLE - 125/250V, 3P, 4W, GROUNDING, NEMA 14-30R, (3)#10+(1)#10G TO 30A, 2P CIRCUIT BREAKER
 - 30A, 250V, 2P, 3W, NEMA 6-30R
 - 50A RANGE RECEPTACLE - 125/250V, 3P, 4W, GROUNDING, NEMA 14-50R, (3)#6+(1)#10 TO 50A, 2P CIRCUIT BREAKER
 - 50A RECEPTACLE - 250V, 3P, NEMA 15-50R, (3)#8+(1)#10 TO 50A, 2P CIRCUIT BREAKER
- NOTE:**
- PROVIDE MATCHING CORD AND PLUG FOR SINGLE RECEPTACLES

- F 20A, 125V, 2P, 3W, NEMA 5-20R, MOUNT IN FLUSH FLOOR BOX
- F 20A, 125V, 2P, 3W, NEMA 5-20R, MOUNT IN FLUSH FLOOR BOX
- F JUNCTION BOX, MOUNT IN FLUSH FLOOR BOX
- EMPTY FLUSH FLOOR BOX
- P 20A, 125V, 2P, 3W, NEMA 5-20R, PEDESTAL MOUNTED
- P SINGLE RECEPTACLE, PEDESTAL MOUNTED
- P JUNCTION BOX, PEDESTAL MOUNTED
- C 20A, 125V, 2P, 3W, NEMA 5-20R, FLUSH MOUNTED IN CEILING
- C DOUBLE DUPLICATION RECEPTACLE, FLUSH MOUNTED IN CEILING
- C GFCI RECEPTACLE, FLUSH MOUNTED IN CEILING
- C DOUBLE DUPLICATION GFCI RECEPTACLE, FLUSH MOUNTED IN CEILING
- C DATA OUTLET, FLUSH MOUNTED IN CEILING, SEE SCHEDULE FOR TYPE
- C JUNCTION BOX, FLUSH MOUNTED IN CEILING
- OVERHEAD RECEPTACLE DROP, DUPLEX
- OVERHEAD RECEPTACLE DROP, DOUBLE DUPLEX
- OVERHEAD RECEPTACLE DROP, GFCI

- 20A, 125V, 2P, 3W, NEMA 5-20R
- DOUBLE DUPLICATION RECEPTACLE
- DUPLEX RECEPTACLE, HATCH INDICATES CONNECTION TO XXX
- GFCI DUPLEX RECEPTACLE, MOUNT 44" AFF UNO
- GFCI DOUBLE DUPLICATION RECEPTACLE, MOUNT 44" AFF UNO
- GFCI RECEPTACLE WITH WEATHERPROOF COVER
- GFCI RECEPTACLE IN WP ENCLOSURE ON ROOF
- MULTI-OUTLET STRIP, PROVIDE OUTLETS 24" OC UNO, MOUNT 48" AFF UNO

NOTES:

- MOUNT RECEPTACLES WITH CENTERLINE 18" AFF UNO
- MOUNT EXTERIOR RECEPTACLES WITH CENTERLINE 24" AFF UNO

- FACP FIRE ALARM CONTROL PANEL, MOUNT WITH TOP OF PANEL NOT MORE THAN 72" AFF
- FAA FIRE ALARM ANNUNCIATOR, MOUNT WITH TOP OF PANEL NOT MORE THAN 72" AFF
- SMOKE DETECTOR
- SMOKE DETECTOR, "E" INDICATES CONNECTION FOR ELEVATOR RECALL
- HEAT DETECTOR
- HEAT DETECTOR, "E" INDICATES CONNECTION FOR ELEVATOR RECALL
- DUCT SMOKE DETECTOR
- GAS VALVE
- REMOTE TEST/INDICATOR FOR DUCT SMOKES, MOUNT ON CEILING BENEATH UNIT, OR WALL MOUNT WHERE INDICATED ON PLANS
- MANUAL PULL STATION, MOUNT 48" AFF
- HORN/STROBE NOTIFICATION APPLIANCE, CANDELA AS NOTED ON PLANS
- SPEAKER/STROBE NOTIFICATION APPLIANCE, CANDELA AS NOTED ON PLANS
- STROBE ONLY NOTIFICATION APPLIANCE, CANDELA AS NOTED ON PLANS
- STROBE NOTIFICATION APPLIANCE, 15 CANDELA, 120V, CONNECT TO OPERATE UPON ACTIVATION OF ROOM SMOKE DETECTOR
- MINI HORN NOTIFICATION APPLIANCE
- HORN/STROBE WITH PULL STATION DIRECTLY BELOW
- MAGNETIC DOOR HOLD OPEN DEVICE
- TRANSFORMER
- SPRINKLER SYSTEM WATER FLOW SWITCH, PROVIDED UNDER DIVISION 23, WIRED UNDER DIVISION 26
- SPRINKLER SYSTEM TAMPER SWITCH, PROVIDED UNDER DIVISION 23, WIRED UNDER DIVISION 26
- SPRINKLER SYSTEM CHECK VALVE PRESSURE SWITCH, FURNISHED AND INSTALLED UNDER DIVISION 23, WIRED UNDER DIVISION 26
- SPRINKLER SYSTEM EXCESS PRESSURE PUMP, FURNISHED AND INSTALLED UNDER DIVISION 23, WIRED UNDER DIVISION 26
- KNOX BOX, PROVIDE IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT REQUIREMENTS
- SMOKE DAMPER
- FIRE AND SMOKE DAMPER
- MASTER BOX

D7 FIRE ALARM SYSTEM

NO SCALE

TECHNOLOGY MATRIX

TECHNOLOGY GENERAL NOTES

- DIVISION 26 SHALL PROVIDE BOXES AND CONDUITS WITH PULL STRINGS AS INDICATED TO 6" ABOVE THE NEAREST ACCESSIBLE CEILING THAT IS CONTIGUOUS TO A J-HOOK PATHWAY. J-HOOK PATHWAY SHALL BE PROVIDED BY UNDER DIVISION 27.

| SYMBOL | MTG HT AFF UNO | DESCRIPTION | KEY NOTE | CONDUIT SIZE | BOX TYPE | OUTLET TYPE | | | | CABLING |
|--------|----------------|---|----------|--------------|----------|-------------|---|---|--|---------|
| ▶ | 18" | (1) VOICE AND (1) DATA OUTLETS | | 3/4" | X | 1 | 1 | | | 2 |
| 2 ▶ | 18" | (2) VOICE AND (2) DATA OUTLETS | | 3/4" | X | 1 | 2 | | | 4 |
| 3 ▶ | 18" | (1) VOICE AND (2) DATA OUTLETS | | 3/4" | X | 1 | 2 | | | 3 |
| ▶ | 18" | (1) DATA OUTLET | | 3/4" | X | | 1 | | | 1 |
| 2 ▶ | 18" | (2) DATA OUTLETS | | 3/4" | X | | 2 | | | 2 |
| W ▶ | 45" | WALL PHONE OUTLET | | 3/4" | | | | 1 | | 1 |
| E ▶ | 18" | PHONE OUTLET FOR ELEVATOR CONNECTION | | 3/4" | | | 1 | | | 1 |
| (TV) | 18" | CATV OUTLET | | 3/4" | X | | | | | 1 |
| (WA) | ABOVE CEILING | DATA OUTLET FOR WIRELESS ACCESS POINT | | | X | | 1 | | | 1 |
| | | UNDERFLOOR BOX WITH (1) VOICE AND (4) DATA OUTLETS AND (4) DUPLEX RECEPTACLES | 2 | | | X | 1 | 4 | | 4 5 |

NOTES:

- MOUNTING HEIGHT AS NOTED ON PLANS
- FLOOR BOX BASIS OF DESIGN: FSR, INC FL-600P SERIES

- PANELBOARD - SURFACE MOUNTED
- PANELBOARD - FLUSH MOUNTED
- FUSED DISCONNECT SWITCH
- NON-FUSED DISCONNECT SWITCH
- MOTOR STARTER - NUMBER INDICATES NEMA SIZE
- COMBINATION MOTOR STARTER/FUSED DISCONNECT
- MOTOR OR FAN
- METER AND CABINET
- JUNCTION BOX - CEILING MOUNTED
- JUNCTION BOX - WALL MOUNTED
- JUNCTION BOX - FLOOR MOUNTED
- JUNCTION BOX - PEDESTAL MOUNTED
- TRANSFORMER - NUMBER INDICATES DESIGNATION SEE TRANSFORMER SCHEDULE
- VARIABLE FREQUENCY DRIVE
- TRANSIENT VOLTAGE SURGE SUPPRESSOR
- EMERGENCY SHUTOFF SWITCH - WALL MOUNTED 48" TO CENTERLINE - PROVIDE TAMPER-PROOF COVER
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- WIRING UNDERGROUND OR UNDERSLAB
- HOMERUN - (2)#12+(1)#12G UNO (EXCEPT LIGHTING CIRCUITS: (1)#12+(1)#10N+(1)#12G UNO)
- SINGLE-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT
- 3-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT
- FLEXIBLE CONNECTION
- GROUNDING SYSTEM
- MOTORIZED DOOR OPERATOR AND PUSH PADDLE - FURNISHED BY DIVISION 08, WIRED BY DIVISION 26
- ENCLOSED CIRCUIT BREAKER
- CARBON MONOXIDE DETECTOR
- GAS DETECTOR
- WALL MOUNTED PADDLE FAN CONTROLLER

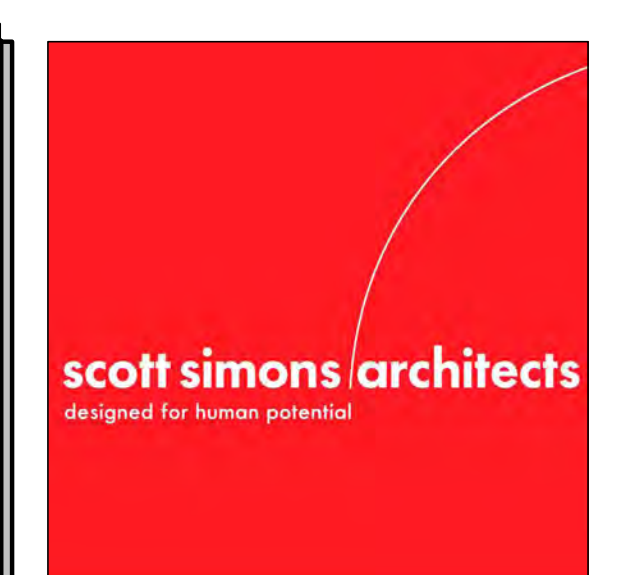
D9 POWER DISTRIBUTION

NO SCALE

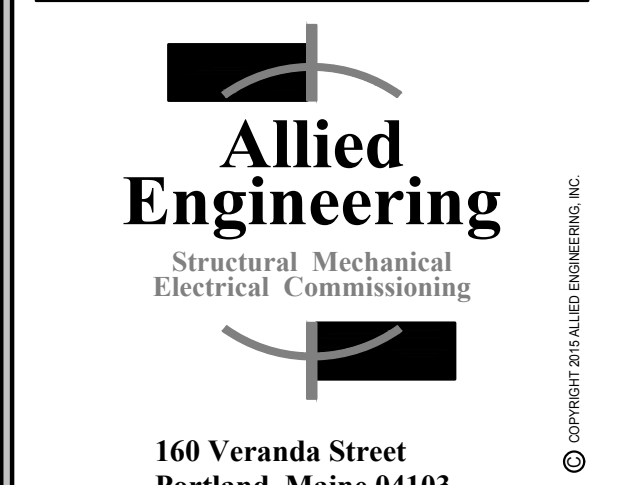
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|----------|---------------|----------|----------|
| A1 | ABBREVIATIONS | A3 | LIGHTING |
| NO SCALE | | NO SCALE | |

| | |
|----------|-------------|
| A5 | RECEPTACLES |
| NO SCALE | |

| | |
|----------|-------------------|
| A7 | TECHNOLOGY MATRIX |
| NO SCALE | |



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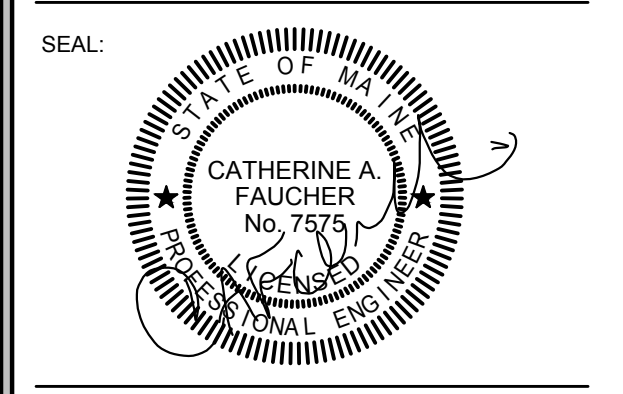


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ADDITION & RENOVATIONS

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ELECTRICAL ABBREVIATIONS, LEGENDS AND GENERAL NOTES

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