GENERAL NOTES

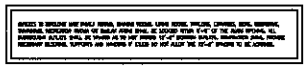
1. ALL WORK SHALL BE NEW UNLESS NOTED OTHERWISE.
2. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR MOUNTING HEIGHTS AND EXACT LOCATIONS OF ALL DEVICES.
3. ALL FLOOR, MASONRY WALLS AND STRUCTURAL CEILING PENETRATIONS SHALL BE SLEEVED.
4. PROVIDE FIRE/SMOKE SEAL FOR SHALL FLOOR OR CEILING PENETRATIONS.
5. PLACE ALL CROSS/PARALLEL OR CONCEAL OF RACEWAY. DO NOT LAY ON, OR SUPPORT CONDUIT FROM SUSPENDED CEILING OR OTHER AND ELEVATIONS.
6. WHERE DEVICE SHALL BE MOUNTED FLUSH. CONDUIT SHALL BE RUN CONCEALED. WHERE WALLS ARE BRICK, BLOCKS AND WOOD SHALL BE SURFACE MOUNTED. PROVIDE, WHERE NOT OF EQUAL TO SURFACE MOUNTED RACEWAY WITH FINISHED PAINTS.
7. ALL WIRING DEVICE (OUTLET COVERS) SHALL BE OF SURFACE MOUNTED CONDUIT. "CAP" SHALL NOT BE ACCEPTED.
8. FLEXIBLE CONDUIT CONNECTIONS SHALL BE A MAXIMUM OF 6'-0".
9. CONDUIT RACEWAYS SHOWN ARE DIAGRAMMATIC. CONTRACTOR SHALL UTILIZE SPARE CONDUIT AND PREVENT CONDUIT RACEWAYS TO WATER CONTROL. REMOVAL OF WATER SHALL BE TAKEN.
10. ALL TYPE CONNECTOR WITH INTERNAL GROUND WIRE, WIRE BE UTILIZED FOR MOTOR AND LIGHTING CIRCUITS. NO CABLE SHALL BE UTILIZED WHEN WIRES, COMPLETELY CONCEALED.

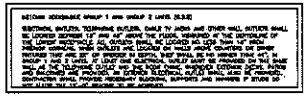
LIGHTING NOTES

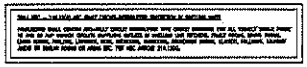
1. ALL CONDUIT, WIRING AND ELECTRICAL EQUIPMENT SHALL BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE LATEST NATIONAL ELECTRICAL CODE, NATIONAL FIRE PROTECTION ASSOCIATION, AMERICANS WITH DISABILITIES ACT (ADA) AND ANY APPLICABLE LOCAL REGULATIONS.
2. ALL SUPPORTS, FITTINGS AND DEVICES ARE TO BEAR CONFIRMATORILY. EXACT LOCATION AND METHOD OF SUPPORT SHALL BE DETERMINED IN THE FIELD, EXCEPT WHERE SWITCHING ENCLOSURES ARE DETAILED ARE SHOWN.
3. ALL LIGHTING FIXTURE SCHEDULE MOUNTING AND MOUNTING HEIGHTS ARE RECOMMENDED LOCATIONS. EXACT MOUNTING SPACING NECESSARY TO AVOID INTERFERENCE SHALL BE DETERMINED IN THE FIELD.
4. THE ELECTRICAL CONTRACTOR SHALL CONSULT AND COORDINATE WITH DRAWINGS OF OTHER TRADES TO AVOID ANY INTERFERENCE IN THE INSTALLATION OF SUCH RESPECTIVE EQUIPMENT.
5. ALL EXHAUST SHALL BE EXIT. THE EXHAUST OUTLETS THAT ARE NOT EXIT ELECTRICAL. THOSE NOTE SHALL BE USED, UNLESS SPECIFICALLY CALLED FOR ON THE DRAWINGS, EXCEPT THAT 1/2 AMP CURRENT MAY BE USED FOR LIGHTING FIXTURE BEING STORE AVAILABLE.
6. MINIMUM SIZE OF CONDUCTOR SHALL BE #10 AWG UNLESS OTHERWISE NOTED.
7. MOUNTING HEIGHTS OF ELECTRICAL EQUIPMENT SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:
   a.) LIGHT SWITCHES, 4'-0" FROM FLOOR TO CENTERLINE.
   b.) LIGHTING RECEPTACLES, 6'-0" FROM FLOOR TO BOX.
   c.) LIGHT FIXTURES - TO LIGHTING FIXTURE CENTERLINE, MOUNTING HEIGHT OF FIXTURE IS MEASURED TO BOTTOM OF REFLECTION.
8. WHERE REQUIRED, ADDITIONAL SUPPORT STEEL FOR THE LIGHTING INSTALLATION SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. REFERE REFERENCE SHALL BE INCLUDED AS PER NAME STATE BUILDING CODE.
9. PROVIDE SCHEMATIC WIRING DIAGRAM TO ALL EMERGENCY LIGHT FIXTURES SYSTEMATIC EMERGENCY BALLASTS.
10. E.C. SHALL COORDINATE THE UNDERMOUNT LIGHTING FIXTURE LOCATIONS WITH THE ARCHITECTURAL UNIT PLANS FOR EXACT LOCATIONS. FRAMING AND DUCTS, STRUCTURE, ETC. FOR FIXTURES AS REQUIRED.

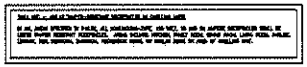
POWER NOTES

1. ALL EQUIPMENT, WIRING AND ELECTRICAL EQUIPMENT SHALL BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL & STATE ELECTRICAL CODES AND ANY APPLICABLE LOCAL REGULATIONS.
2. ALL CONDUITS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATION AND METHOD OF SUPPORT SHALL BE DETERMINED IN THE FIELD, EXCEPT WHERE SPECIFICALLY SHOWN OR NOTED ON DRAWINGS. ALL CONDUIT SHALL BE RIGIDLY SUPPORTED.
3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND COORDINATE WITH DRAWINGS OF OTHER TRADES TO AVOID ANY INTERFERENCE IN THE INSTALLATION OF SUCH RESPECTIVE EQUIPMENT.
4. ALL EXHAUST SHALL BE EXIT. THE EXHAUST OUTLETS THAT ARE NOT ELECTRICAL. THOSE NOTE SHALL BE USED, UNLESS SPECIFICALLY CALLED FOR ON THE DRAWINGS, EXCEPT THAT 1/2 AMP CURRENT MAY BE USED FOR LIGHTING FIXTURE BEING STORE AVAILABLE.
5. MINIMUM SIZE OF CONDUCTOR SHALL BE #10 AWG UNLESS OTHERWISE NOTED.
6. WHERE DEVICE SHALL BE MOUNTED FLUSH. CONDUIT SHALL BE RUN CONCEALED. WHERE WALLS ARE BRICK, BLOCKS AND WOOD SHALL BE SURFACE MOUNTED. PROVIDE, WHERE NOT OF EQUAL TO SURFACE MOUNTED RACEWAY WITH FINISHED PAINTS.
7. ALL WIRING DEVICE (OUTLET COVERS) SHALL BE OF SURFACE MOUNTED CONDUIT. "CAP" SHALL NOT BE ACCEPTED.
8. FLEXIBLE CONDUIT CONNECTIONS SHALL BE A MAXIMUM OF 6'-0".
9. CONDUIT RACEWAYS SHOWN ARE DIAGRAMMATIC. CONDUCTORS, CONNECTIONS SHALL UTILIZE SPARE CONDUIT AND PREVENT CONDUIT RACEWAYS TO WATER CONTROL. REMOVAL OF WATER SHALL BE TAKEN.
10. MC TYPE CONNECTOR WITH INTERNAL GROUND WIRE, WIRE BE UTILIZED FOR MOTOR AND LIGHTING CIRCUITS. NO CABLE SHALL BE UTILIZED WHEN WIRES, COMPLETELY CONCEALED.
11. MOUNTING HEIGHTS OF ELECTRICAL EQUIPMENT SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:
   a.) CONVENIENCE RECEPTACLE (GENERAL), 1'-4" FROM FLOOR TO CENTERLINE.
   b.) CONVENIENCE RECEPTACLE (OFFICE), 1'-4" FROM FLOOR TO CENTERLINE.
   c.) TELEPHONE OUTLETS, 1'-4" FROM FLOOR TO CENTERLINE.
12. PROVIDE SCHEMATIC HOT, ENGLISH AND RETURN CONNECTOR FOR ALL CIRCUITS CONNECTED TO MULTI-WAY CIRCUIT DESIGNATED.









FIRE ALARM NOTES

1. FIRE ELECTRICAL CONTRACTOR SHALL COMPLETE & CERTIFICATE ACCEPTING THAT THE SYSTEM HAS BEEN FOR FUNCTIONAL TESTED AND FUNCTIONS IN COMPLETE COMPLIANCE WITH THE SYSTEM SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS. THE CERTIFICATE SHALL BE SIGNED BY THE INSTALLER, ELECTRICIAN, CONTRACTOR AND THE OWNER UPON COMPLETION OF THE INSTALLATION. THE FIRE PROTECTION CONTRACTOR RESPONSIBLE FOR THE FIRE ALARM SUPERVISION WILL CONDUCT AN INSPECTION IN THE COMPANY OF THE INSTALLER AND A REPRESENTATIVE OF THE OWNER WITHIN SCOPE OF WORK.
2. ALL FULL STATIONS SHALL HAVE USE OF THE MANUAL ACTION TYPE. SECONDARY MEANS WILL NOT BE PERMITTED.
3. ALL FIRE ALARM WIRING, DEVICES SHALL BE SYNCHRONIZED.
4. ALL WIRING DEVICES SHALL BE AS APPROVED BY THE WIRING INSPECTOR AND THE FIRE DEPARTMENT.
5. ALL SYSTEM COMPONENTS SHALL BE UL LISTED.
6. ALL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, NFPA 70 SERIES PAMPHLETS, AND ALL STATE AND LOCAL CODES.
7. THE ELECTRICAL CONTRACTOR MUST OBTAIN AN ELECTRICAL PERMIT FROM THE TOWN BUILDING DEPARTMENT AND A PERMIT FROM THE FIRE DEPARTMENT PRIOR TO COMMENCEMENT OF EQUIPMENT INSTALLATION. A FINAL FLOW SHOWING ALL ALARM DEVICES, LOCATION OF MASTER BOX, PANELS, ANNUNCIATOR, & OVERLOAD WIRING DIAGRAM AND AN ANNUNCIATOR DRAWING SHOWING ZONING LOCATIONS MUST BE PRESENTED TO BE SUBMITTED BEFORE THE FIRE DEPARTMENT ISSUES A PERMIT.
8. INSTALLATION OF EQUIPMENT SHALL BE IN ACCORDANCE WITH CURRENT STANDARDS AND SPECIFICATIONS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
9. ALL FIRE ALARM EQUIPMENT, INSTALLATION AND EXTENSION SHALL BE IN CONFORMANCE WITH THE PORTLAND FIRE DEPARTMENT INSTALLATION REQUIREMENTS AND NFPA 72 INSTALLATION GUIDELINES.
10. ALL EQUIPMENT SHOWN ON DRAWINGS TO BE NEW UNLESS.
11. PROVIDE AND INSTALL ALL SYSTEM WIRE, CONDUIT, DEVICES, AND CONNECTIONS FROM ALL DUCT SMOKE DETECTORS TO FACP AS REQUIRED BY LOCAL FIRE AND SUPPORT AND CORRELATION. LINE BETWEEN UP TO 8 FEET SHOWN, BULLETIN, OR SPECIFICATIONS. COORDINATE THE GENERAL ALARM, AND MAIN SMOKE DETECTOR SHALL ABSOLUTELY START BEFORE THE INSPECTION DAY.
12. THE FIRE ALARM SYSTEM SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY BOTH THE CONSULTED AND THE INSTALLING THE GOVERNMENT. THE SHOP DRAWINGS SHALL BE SIGNED OFF BY THE FIRE DEPARTMENT AND ENGINEER PRIOR TO WIRING AND INSTALLATION OF EQUIPMENT.
13. ANNUNCIATOR ALL CONNECTIONS SHALL BE MADE TO THE MANUFACTURER, FIRE ALARM CONSULTED, CONSULTANT OF PORTLAND FIRE DEPARTMENT PERSONNEL.
14. ALL WORK BEYOND THE MASTER BOX AND MORE OF THE BUILDING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
15. ALL HOOKS AND CONNECTIONS SHALL BE IN JUNCTION BOXES. ALL CONNECTIONS MAY ON APPROVED TERMINAL STRIPS SHALL BE SOLDERED AND SPICED. ALL JUNCTION BOXES SHALL BE MARKED RED.
16. ALL EQUIPMENT SHALL BE MADE AVAILABLE FOR TEST AND INSPECTION WHEN REQUIRED BY THE FIRE DEPARTMENT.
17. ALL EQUIPMENT USED SHALL BE OF A TYPE APPROVED BY THE FIRE CHIEF THROUGH THE ALARM SUPERINTENDENT AND CAL FIRE, PREVENTION DIVISION.
18. ALL SYSTEMS SHALL BE UL SUPERVISED, AUTOMATIC ALARM SYSTEMS THAT ALARM SIGNAL. A SEPARATE UL CIRCUIT MUST BE PROVIDED FOR THE FIRE ALARM SIGNALS. SUPPORT MATERIALS AND THE CHANGING SYSTEM SHALL BE SUPERVISED.
19. THE BATTERIES USED WITH THE FIRE ALARM CONTROL PANELS SHALL BE SEALED, OR SPILLPROOF, THE PANEL FOR TWENTY-FOUR (24) HOURS WITH A FIVE (5) MINUTE ALARM SIGNAL AT THE END OF THE TWENTY-FOUR (24) HOUR PERIOD. THE CALCULATION USED TO DETERMINE BATTERY CAPACITY SHALL BE PRESENTED TO THE FIRE DEPARTMENT AT THE TIME OF INSPECTION. PROVIDE BATTERY CALCULATION WITH SHOP DRAWINGS.
20. ALL FIRE ALARM CONTROL PANELS SHALL HAVE A RED, LED OR EQUIV, WITH THE WORDS "FIRE ALARM GENERAL" ENGRAVED ON IT. THE TERM SHALL BE ON THE FRONT OF THE PANEL WITH NUMBER ONE (1) INCH LETTERS.
21. WHEN ACTUATION OF ANY FIRE ALARM DEVICE, THE CONTROL PANEL SHALL SIGNAL THE ANNUNCIATOR SYSTEM, FLASH THE ANNUNCIATOR LIGHTS, INDICATE THE ZONE OF ACTIVATION AT THE PANEL AND TRIP THE MASTER BOX.
22. THE MANUAL ANNUNCIATOR OF THE ANNUNCIATOR SYSTEM SHALL HAVE ALPHANUMERIC DISPLAY, ONE DEVICE IN PLACE.
23. AUDIBLE NOTIFICATION APPLIANCES OR NOTIFICATION ZONES SHALL HAVE A SEPARATE CIRCUIT FOR EACH FLOOR. EACH FLOOR SHALL HAVE THE AUDIBLE NOTIFICATION APPLIANCES ARRANGED SO THAT A FAULT ON ONE CIRCUIT OF FLOOR OR ACCIDENT ON A GROUND FLOOR, OR AT LEAST FLOOR, ANNOUNCER IS DISABLED, ALARMING AT THE PRIMARY LEVEL ON THE AREA, RESPECTIVE TO THE SENSOR IN THE SYSTEM USING THE ANNOUNCER SIGNAL PANEL.
24. REFER TO BOOK SPECIFICATIONS FOR PLANS AND SPECIFICATIONS FOR THE BI-IMPLEMENTATION WHERE PER THE CITY OF PORTLAND

ABBREVIATIONS

AMMP	AMPERE	MC	MOMENTARY METALLIC CONDUIT
AC	ALTERNATING CURRENT	AL	ALUMINUM BUS
AFF	ABOVE FINISH FLOOR	ALUM	ALUMINUM
AFG	ABOVE FINISH GRADE	MH	MANHOLE
AWG	AMERICAN WIRE GAUGE	MI	MINIMUM
BKR	BREAKER	MIN	MINIMUM
BOC	BOTTOM OF CONDUIT	MISC	MISCELLANEOUS
C	CONDUIT	MTD	MOUNTED
CAT	CATALOG NUMBER	NEC	NATIONAL ELECTRICAL CODE
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CKT	CIRCUIT	NTS	NOT TO SCALE
CLG	CEILING	OC	ON CENTER
CONT	CONTINUOUS	OH	OVERHEAD
CU	COPPER	PNL	PANEL
DWG	DRAWING	PVC	POLYVINYL CHLORIDE
EC	ELECTRICAL CONTRACTOR	RMS	ROOT MEAN SQUARE VALUE
EMT	ELECTRICAL METALLIC TUBING	SPD	SURGE PROTECTIVE DEVICE
EQUIP	ELECTRICAL EQUIPMENT	SW	SWITCH
EXIST	EXISTING	TBD	TO BE DETERMINED
FLEX	FLEXIBLE CONDUIT	TYP	TYPICAL
FMC	FLEXIBLE METALLIC TUBING	UG	UNDERGROUND
GND	GROUND	V	VOLTS
GFI	GROUND FAULT INTERRUPTED	WP	WEATHERPROOF
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	XFMR	TRANSFORMER
HP	HORSEPOWER		

BRANCH CIRCUIT AND FEEDER SYMBOLS

- BRANCH CIRCUIT OR FEEDER CONCEALED UNLESS OTHERWISE NOTED
- BRANCH CIRCUIT CONCEAL LINES INDICATE NUMBER OF CONDUCTORS. NO CROSSING LINES INDICATES TWO (2) CONDUCTORS (1 PHASE AND 1 NEUTRAL). GROUND WIRED NOT INDICATED. MINIMUM SIZE CONDUCTOR #10 AWG AND 3/4" CONDUIT, UNLESS OTHERWISE NOTED
- 4(3)#8+1 1/2"C INDICATES (4) (3 #8(PHASE), (1)#1 (NEUTRAL), (1) #6 GROUND IN A 1 1/2" CONDUIT
- FLEXIBLE CONNECTION TO MOTOR OR EQUIPMENT
- 3#4+1 3/4"C — HOMERUN TO PANELBOARD "P" CIRCUIT NUMBER 4, 3#4(PHS), 1#4(G) MINIMUM (1) PHASE AND (1) NEUTRAL CONDUCTOR. (1) GROUNDING CONDUCTOR UNDERGROUND.
- P1-13 (3)#8(P)+#8(N)+#8(G)+1"C — HOMERUN TO PANELBOARD "P" CIRCUIT NUMBER 1, 3 & 5. 3#8(PHS), 1#8(N) MINIMUM (3) PHASE AND (1) NEUTRAL CONDUCTOR. (1) GROUNDING CONDUCTOR UNDERGROUND.
- P1-13,5 (3)#8(P)+#8(N)+#8(G)+1"C — HOMERUN TO PANELBOARD "P" CIRCUIT NUMBER 1, 3 & 5. 3#8(PHS), 1#8(N) MINIMUM (3) PHASE AND (1) NEUTRAL CONDUCTOR. (1) GROUNDING CONDUCTOR UNDERGROUND.
- P1-13,5 #8/3"C — HOMERUN TO PANELBOARD "P" CIRCUIT NUMBER 1, 3 & 5. 3#8(PHS), 1#8(N) MINIMUM (3) PHASE AND (1) NEUTRAL CONDUCTOR. (1) GROUNDING CONDUCTOR UNDERGROUND. HOMERUN CONDUCTOR NOT INCLUDED. (1) GROUNDING CONDUCTOR UNDERGROUND.

OCCUPANCY SENSORS

- WALL MOUNTED OCCUPANCY SENSOR, 180°, 300SF COVERAGE (24'H x 20'L), BY PHILIPS LIGHTING CONTROLS OR EQUAL PHILIPS LIGHTING CONTROLS NO. LVSW-WHITE
- WALL MOUNTED DUAL CHOICE (PIR OR ULTRASONIC) SENSOR, 180°, 300SF COVERAGE (24'H x 20'L), BY PHILIPS LIGHTING CONTROLS OR EQUAL PHILIPS LIGHTING CONTROLS NO. LVDSW-WHITE
- WALL MOUNTED OCCUPANCY SENSOR, 180°, 300SF CONTROL CAPS (24'H x 20'L), BY PHILIPS LIGHTING CONTROLS NO. LVDSW-WHITE (MANUAL ON MODE) OR LVDSW-WHITE-A (AUTO ON MODE), OR LVDSW-WHITE-IVORY OR LVDSW-WHITE-IVORY-A (IVORY COLOR) OR LVDSW-WHITE-GREY OR LVDSW-WHITE-GREY-A (GREY COLOR) (PHILIPS ADVANCE BALLAST)
- CEILING MOUNTED OCCUPANCY SENSOR, 360° PIR+MICRO, 1000SF CONTROL CAP DIAMETER, BY PHILIPS LIGHTING CONTROLS OR EQUAL PHILIPS LIGHTING CONTROLS NO. LVMSW-WHITE (MANUAL ON MODE) OR LVMSW-WHITE-A (AUTO ON MODE) OR LVMSW-WHITE-IVORY OR LVMSW-WHITE-IVORY-A (IVORY COLOR) OR LVMSW-WHITE-GREY OR LVMSW-WHITE-GREY-A (GREY COLOR) (PHILIPS ADVANCE BALLAST)
- CEILING MOUNTED OCCUPANCY SENSOR, 360° PIR+MICRO, 1000SF CONTROL CAP DIAMETER, BY PHILIPS LIGHTING CONTROLS OR EQUAL PHILIPS LIGHTING CONTROLS NO. LVMSW-WHITE (MANUAL ON MODE) OR LVMSW-WHITE-A (AUTO ON MODE) OR LVMSW-WHITE-IVORY OR LVMSW-WHITE-IVORY-A (IVORY COLOR) OR LVMSW-WHITE-GREY OR LVMSW-WHITE-GREY-A (GREY COLOR) (PHILIPS ADVANCE BALLAST)

CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE THE EXACT LOCATION OF ALL OCCUPANCY SENSORS PRIOR TO INSTALLATION. CONTRACTOR SHALL VERIFY ALL REQUIRED FUNCTIONS OF SENSORS AND ADJUST AS REQUIRED FOR PROPER OPERATION. SENSORS SHALL BE LOCATED TO AVOID INTERFERENCE FROM AIR DIFFUSERS, RETURN GRILLES, AND OTHER OBSTRUCTIONS THAT MAY AFFECT PROPER OPERATION. SENSORS SHALL BE LOCATED AND ADJUSTED TO PREVENT FALSE TRIGGERING FROM OUTSIDE THE AREA BEING CONTROLLED. SENSORS SHALL BE LOCATED AND ADJUSTED TO PREVENT FALSE TRIGGERING FROM ADJACENT SPACES. SENSORS SHALL BE LOCATED AND ADJUSTED TO PREVENT FALSE TRIGGERING FROM ADJACENT SPACES. SENSORS SHALL BE LOCATED AND ADJUSTED TO PREVENT FALSE TRIGGERING FROM ADJACENT SPACES.

FIRE ALARM SYSTEM

- FACP — FLOOR/WALL MOUNT, TOP OF DEVICE MOUNTED NOT LESS THAN 60" AFF AND NOT LESS THAN 6" ABOVE FINISHED CEILING
- MANUAL PULL STATION, MOUNTING HEIGHT 48" TO CENTERLINE AFF
- HORN, STROBE, COMBO DEVICE MOUNTED NOT LESS THAN 80" AFF AND NOT MORE THAN 96" AFF
- SIDE OR LOW PROFILE HORN/STROBE DEVICE, TOP OF DEVICE MOUNTED NOT LESS THAN 80" AFF AND NOT LESS THAN 6" BELOW FINISHED CEILING
- CEILING MOUNTED HORN/STROBE DEVICE
- CEILING MOUNTED SPEAKER DEVICE
- SMOKE DETECTOR, "S" INDICATES DUCT MOUNTED SMOKE DETECTOR, "M" INDICATES ELEVATOR RECALL, "MM" INDICATES MAGNETIC HOLD
- HEAT DETECTOR, "T" INDICATES TWO THREE TEMPERATURE, "C" INDICATES MOUNTED ABOVE HUNG CEILING
- ANNUNCIATOR (NAME)/(POWER) MONITORING DEVICE(S), (#) VOLT (+BATTERY WITH BATTERY BACKUP), "NAME" INDICATES NAME DESIGN
- FLOW SWITCH
- PNEUMATIC SWITCH
- TAMPER SWITCH
- LOW PRESSURE ALARM SWITCH
- ALARM BELL, 120 VOLT HARDWIRED, EXTERIOR MOUNTED, WEATHERPROOF
- RED INDICATING LED/LENS, EXTERIOR MOUNTED, WEATHERPROOF
- REMOTE LED INDICATOR
- FIRE ALARM MASTER BOX
- FIRE DEPARTMENT KEY BOX
- MONITOR MODULE
- REMOTE TEST STATION
- FIRE ALARM ANNUNCIATOR PANEL
- FIRE ALARM CONTROL PANEL
- FIRE PUMP ANNUNCIATOR PANEL, (IF OTHER THEN BY EC
- FIRE ALARM BOOSTER BOX

SITE SYMBOLS

- LANDSCAPING (SEMENT OR ELECTRONIC, REFER TO GRADING PLAN
- WATERMAIN, "D" DENOTES POWER, "T" DENOTES COMMUNICATIONS. WATERMAIN SHALL BE PRESSURE RESISTANT AND SHALL HAVE NO GREATER DEPTH REQUIREMENTS
- UTILITY POLE
- A — STATION "A-#"
- B — SITE LIGHTING FIXTURE, REFER TO LIGHTING FIXTURE SCHEDULE
- TRANSFORMER

MISCELLANEOUS

- UTILITY METER
- MECHANICAL EQUIPMENT TAG, REFER TO MECHANICAL SCHEDULE
- COMMUNICATIONS SERVICE PANEL
- APARTMENT BATHROOM UNIT OF STORAGE, REFER TO SHEET E007 FOR RECEPTACLES WITH GFCI RECEPTACLE
- CHIME SCHEDULE
- CHIMNEYS GRAVITY FLOOR SCHEDULE

LIGHTING FIXTURE SYMBOLS

- FLUORESCENT LIGHTING FIXTURE, CEILING/SURFACE/RECESSED/PENDANT OR WALL MOUNTED, "A" DENOTES LIGHTING FIXTURE TYPE, (SEE FIXTURE SCHEDULE), "1" DENOTES CIRCUIT NUMBER, "a" DENOTES SWITCH CONTROL
- COMPACT FLUORESCENT LIGHT FIXTURE, CEILING/SURFACE/RECESSED OR PENDANT MOUNTED, "B" DENOTES LIGHTING FIXTURE TYPE, "1" DENOTES CIRCUIT NUMBER, "a" DENOTES SWITCH CONTROL
- FLUORESCENT LIGHTING FIXTURE CONNECTED TO THE EMERGENCY GENERATOR, OR EQUIPPED WITH EMERGENCY BALLAST. SEE LIGHTING NOTE 10.
- EMERGENCY BATTERY UNIT WITH TWO (2) HEADS
- EXIT SIGN, SHADED WITH DIRECTIONAL ARROWS

SWITCHING SYMBOLS

- S_a — SINGLE POLE SWITCH, RATED 20A, 120/277V, MOUNTING HEIGHT 48" TO CENTERLINE OF HANDLE SWITCH IN "ON" POSITION, "a" DENOTES FIXTURE SWITCH CONTROL
- S_b — THREE WAY SWITCH, RATED 20A, 120/277V, MOUNTING HEIGHT 48" TO CENTERLINE OF HANDLE SWITCH IN "ON" POSITION, "b" DENOTES FIXTURE SWITCH CONTROL
- S_c — FOUR WAY SWITCH, RATED 20A, 120/277V, MOUNTING HEIGHT 48" TO CENTERLINE OF HANDLE SWITCH IN "ON" POSITION, "c" DENOTES FIXTURE SWITCH CONTROL
- S_d — MANUAL MOTOR STARTER, RATED 20A, 230V, CORRESPONDING MOUNTING HEIGHT TO FIELD, MOUNTING HEIGHT SHALL NOT EXCEED 6'-0" AFF

RECEPTACLES AND OUTLETS

- DUPLEX CONVENIENCE RECEPTACLE OUTLET, GROUNDING TYPE, RATED 20A, 125V TYPE. "D" DENOTES CIRCUIT NUMBER, MOUNTING HEIGHT 18" TO CENTERLINE AFF
- WEATHER PROOF RECEPTACLE WITH WEATHERPROOF COVER, MOUNTING HEIGHT 18" TO CENTERLINE AFF
- DUPLEX CONVENIENCE OUTLET, MOUNTING HEIGHT 18" TO CENTERLINE AFF OR 8" ABOVE COUNTER TOP. OUTLETS MOUNTED BACK TO BACKING BOX SHALL BE MOUNTED 48" TO CENTERLINE AFF
- GROUND FAULT DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTER TOP
- SINGLE DUPLEX CONVENIENCE OUTLET
- WATCHER ROMANCE DUPLEX OUTLET
- USB DUPLEX CONVENIENCE OUTLET, MOUNTING HEIGHT 48" TO CENTERLINE AFF OR 8" ABOVE COUNTER TOP.
- JUNCTION BOX
- ANALOGUE "NAME" PANEL FOR TELEPHONE
- "NAME" SUPPLIED ADVANCED "SMART" PANEL FOR TELEPHONE
- CABLE TELEVISION CONNECTION, FLUSH MOUNTED 18" TO CENTERLINE AFF WITH 1 GANG REMODEL COVER PLATE
- TELEPHONE OUTLET, FLUSH MOUNTED HEIGHT 18" TO CENTERLINE AFF, "N" DENOTES WALL PHONE, MOUNTING HEIGHT 4'-0" TO CENTERLINE AFF, "T" DENOTES TAB PHONE, "T" DENOTES TAB MOUNT.
- 2 GANG TELEPHONE/COMPUTER OR DATA OUTLET, FLUSH MOUNTED 18" TO CENTERLINE AFF WITH 2 GANG REMODEL COVER PLATE.
- MOUNTED 4"x4" BOX WITH 1" CONDUIT TO ATTIC FLOOR CEILING WITH PULL WIRE

MOTOR AND CONTROLS

- MOTOR, RATING, INDICATES HORSEPOWER
- DISCONNECT SWITCH, NON-FUSIBLE TYPE, RATED 30A/3P, IN NEMA TYPE "1" ENCLOSURE, UNLESS OTHERWISE NOTED. "DH" DENOTES NEMA TYPE ENCLOSURE
- DISCONNECT SWITCH, FUSED TYPE, RATED 30A, 3R, FUSE, 3 POLE IN NEMA TYPE "1" ENCLOSURE, UNLESS OTHERWISE NOTED
- SMART TRIP BREAKER, REFER TO ELEVATOR MANUFACTURER'S RECOMMENDATIONS
- ELEVATOR CONTROL PANEL
- "NAME" EMERGENCY DEVICE

PANELBOARD AND TERMINAL CABINET

- LIGHTING AND POWER PANEL, SURFACE
- TELEPHONE TERMINAL, 4'x4' 3/4" PLYWOOD BACKBOARD, PAINTED BLACK

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REVISION:

ISSUED:
11.23.16 - Issues for Permit

project architect: —
drawn by: CMF

ELECTRICAL LEGEND AND NOTES

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