ELECTRICAL LEGEND

LIGHTING:

- A — LIGHT FIXTURE (LUMINAIRE) AND OUTLET ON NORMAL CIRCUIT.
- B
- C
- D — DOWNLIGHT FIXTURE (LUMINAIRE) AND OUTLET ON NORMAL CIRCUIT.
- E — WALL MOUNTED LIGHT FIXTURE (LUMINAIRE) AND OUTLET ON NORMAL CIRCUIT.
- F — STRIP LIGHT FIXTURE (LUMINAIRE) AND OUTLET ON NORMAL CIRCUIT.
- G — TRACK WITH TRACK HEAD LIGHT FIXTURES (LUMINAIRES). REFER TO PLANS FOR LENGTH OF TRACK AND NUMBER OF TRACK HEAD LIGHT FIXTURES ON THE TRACK.
- SINGLE FACE EXIT SIGN WITH OUTLET AND ARROWS AS INDICATED ON PLAN.
- DUAL FACE EXIT SIGN WITH OUTLET AND ARROWS AS INDICATED ON PLAN.
- EMERGENCY BATTERY UNIT WITH INTEGRAL LIGHT HEADS.
- COMBINATION EMERGENCY BATTERY UNIT/EXIT SIGN WITH INTEGRAL EMERGENCY LIGHT HEADS.
- REMOTE DUAL EMERGENCY LIGHT HEADS.
- SL1 — SINGLE HEAD SITE LIGHT FIXTURE (LUMINAIRE). REFER TO POLE BASE DETAIL.
- SL2 — DUAL HEAD SITE LIGHT FIXTURE (LUMINAIRE). REFER TO POLE BASE DETAIL.
- SL3 — POST TOP HEAD SITE LIGHT FIXTURE (LUMINAIRE). REFER TO POLE BASE DETAIL.
- SL4 — FLAGPOLE SITE LIGHT FIXTURE (LUMINAIRE). REFER TO POLE BASE DETAIL.
- SL5 — RECESSED STEP LIGHT FIXTURE (LUMINAIRE). REFER TO POLE BASE DETAIL.
- A — LIGHT FIXTURE (LUMINAIRE) AND OUTLET ON EMERGENCY CIRCUIT.
- B
- C
- D — DOWNLIGHT FIXTURE (LUMINAIRE) AND OUTLET ON EMERGENCY CIRCUIT.
- E — WALL MOUNTED LIGHT FIXTURE (LUMINAIRE) AND OUTLET EMERGENCY CIRCUIT.
- F — STRIP LIGHT FIXTURE (LUMINAIRE) AND OUTLET ON EMERGENCY CIRCUIT.

LIGHTING CONTROL:

- Sa — SINGLE POLE SWITCH MOUNTED AT 48" A.F.F TO CENTER. SUBSCRIPT INDICATES LIGHT FIXTURE CONTROL.
- SPa — SINGLE POLE SWITCH WITH PILOT LIGHT MOUNTED AT 48" A.F.F TO CENTER. SUBSCRIPT INDICATES LIGHT FIXTURE CONTROL.
- S2a — TWO POLE SWITCH MOUNTED AT 48" A.F.F TO CENTER. SUBSCRIPT INDICATES LIGHT FIXTURE CONTROL.
- S3a — THREE WAY SWITCH MOUNTED AT 48" A.F.F TO CENTER. SUBSCRIPT INDICATES LIGHT FIXTURE CONTROL.
- S4a — FOUR WAY SWITCH MOUNTED AT 48" A.F.F TO CENTER. SUBSCRIPT INDICATES LIGHT FIXTURE CONTROL.
- SKa — KEYED SINGLE POLE SWITCH MOUNTED AT 48" A.F.F TO CENTER. SUBSCRIPT INDICATES LIGHT FIXTURE CONTROL.
- SWP — SINGLE POLE SWITCH WITH WEATHERPROOF COVER MOUNTED AT 48" A.F.F TO CENTER.
- SLa — SINGLE BUTTON LOW VOLTAGE DIGITAL SWITCH, EQUAL TO WATT STOPPER #LMSW-101, MOUNTED AT 48" A.F.F TO CENTER. SUBSCRIPT INDICATES LIGHT FIXTURE CONTROL.
- SLab — TWO BUTTON LOW VOLTAGE DIGITAL SWITCH, EQUAL TO WATT STOPPER #LMSW-102, MOUNTED AT 48" A.F.F TO CENTER. SUBSCRIPT INDICATES LIGHT FIXTURE CONTROL.
- SLabc — THREE BUTTON LOW VOLTAGE DIGITAL SWITCH, EQUAL TO WATT STOPPER #LMSW-103, MOUNTED AT 48" A.F.F TO CENTER. SUBSCRIPT INDICATES LIGHT FIXTURE CONTROL.
- SL4abcd — EIGHT BUTTON LOW VOLTAGE DIGITAL SWITCH, EQUAL TO WATT STOPPER #LMSW-104, MOUNTED AT 48" A.F.F TO CENTER. SUBSCRIPT INDICATES LIGHT FIXTURE CONTROL.
- SL8abcdefgh — EIGHT BUTTON LOW VOLTAGE DIGITAL SWITCH, EQUAL TO WATT STOPPER #LMSW-108, MOUNTED AT 48" A.F.F TO CENTER. SUBSCRIPT INDICATES LIGHT FIXTURE CONTROL.
- SLDc — LOW VOLTAGE DIGITAL DIMMING SWITCH, EQUAL TO WATT STOPPER #LMDM-101, MOUNTED AT 48" A.F.F TO CENTER. SUBSCRIPT INDICATES LIGHT FIXTURE CONTROL.
- D — CEILING MOUNTED PHOTOSENSOR FOR DAY LIGHT HARVESTING UP TO THREE ZONES OF DIMMING, EQUAL TO WATT STOPPER #LMLS-500. PHOTOSENSOR PLACEMENT PER MANUFACTURER'S RECOMMENDED LOCATIONS. PLACEMENT ON FLOOR PLANS IS DIAGRAMMATICAL, REFER TO PHOTOSENSOR PLACEMENT DETAIL.
- A OS — WALL MOUNTED MANUAL-ON DUAL TECHNOLOGY OCCUPANCY SENSOR, PASSIVE INFRARED AND ULTRASONIC TECHNOLOGY, WITH INTEGRAL SWITCH, EQUAL TO WATT STOPPER #DSW-301, MOUNTED AT 48" A.F.F TO CENTER. UPPER CASE LETTER INDICATES TYPE.
- B OS ob — WALL MOUNTED MANUAL-ON DUAL TECHNOLOGY OCCUPANCY SENSOR, PASSIVE INFRARED AND ULTRASONIC TECHNOLOGY, WITH TWO INTEGRAL SWITCHES, EQUAL TO WATT STOPPER #DSW-302, MOUNTED AT 48" A.F.F TO CENTER. UPPER CASE LETTER INDICATES TYPE, LOWER CASE LETTER INDICATES SWITCH CONTROL. TIME DELAY SHALL BE 15 MINUTES.
- AA OS a — CORNER/CEILING MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR, EQUAL TO WATT STOPPER #LMPC-100. UPPER CASE LETTER INDICATES TYPE, LOWER CASE LETTER INDICATES SWITCH CONTROL. TIME DELAY SHALL BE 15 MINUTES. MOUNT OCCUPANCY SENSOR AT SAME HEIGHT OR BELOW ANY PENDANT MOUNTED LIGHTING FIXTURES SO AS TO NOT OBSTRUCT OCCUPANCY SENSOR. PROVIDE CAT 5e CABLE TO ROOM CONTROLLER.
- BB OS b — CORNER/CEILING MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR, EQUAL TO WATT STOPPER #LMPX-100. UPPER CASE LETTER INDICATES TYPE, LOWER CASE LETTER INDICATES SWITCH CONTROL. TIME DELAY SHALL BE 15 MINUTES. MOUNT OCCUPANCY SENSOR AT SAME HEIGHT OR BELOW ANY PENDANT MOUNTED LIGHTING FIXTURES SO AS TO NOT OBSTRUCT OCCUPANCY SENSOR. PROVIDE CAT 5e CABLE TO ROOM CONTROLLER.
- CC OS a — CORNER/CEILING MOUNTED DIGITAL DUAL TECHNOLOGY OCCUPANCY SENSOR, PASSIVE INFRARED AND ULTRASONIC TECHNOLOGY, EQUAL TO WATT STOPPER #LMDX-100. MOUNT AT LEAST 6'-0" FROM A SUPPLY REGISTER. UPPER CASE LETTER INDICATES TYPE, LOWER CASE LETTER INDICATES SWITCH CONTROL. TIME DELAY SHALL BE 15 MINUTES. MOUNT OCCUPANCY SENSOR AT SAME HEIGHT OR BELOW ANY PENDANT MOUNTED LIGHTING FIXTURES SO AS TO NOT OBSTRUCT OCCUPANCY SENSOR. PROVIDE CAT5e CABLE TO ROOM CONTROLLER.
- DD OS d — CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR, EQUAL TO WATT STOPPER #LMUC-100. MOUNT AT LEAST 6'-0" FROM A SUPPLY REGISTER. UPPER CASE LETTER INDICATES TYPE, LOWER CASE LETTER INDICATES SWITCH CONTROL. TIME DELAY SHALL BE 15 MINUTES. PROVIDE CAT5e CABLE TO ROOM CONTROLLER.
- OS a — CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, EQUAL TO WATT STOPPER #LMDC-100. MOUNT AT LEAST 6'-0" FROM A SUPPLY REGISTER. UPPER CASE LETTER INDICATES TYPE, LOWER CASE LETTER INDICATES SWITCH CONTROL. TIME DELAY SHALL BE 15 MINUTES. PROVIDE CAT 5e CABLE TO ROOM CONTROLLER.
- NB — NETWORK BRIDGE
- TC — TIMECLOCK
- P — PHOTOCELL

POWER OUTLETS:

ALL RECEPTACLES SHALL BE MOUNTED AT 18" A.F.F. TO CENTER, UNLESS OTHERWISE NOTED. THE FOLLOWING DESIGNATIONS SHALL APPLY TO ALL RECEPTACLE TYPES.

- C = MOUNTED AT 6" ABOVE BACK SPLASH TO BOTTOM, REFER TO ARCHITECTURAL ELEVATIONS.
- CM = CEILING MOUNTED.
- IG = ISOLATED GROUND.
- P = MOUNT ADJACENT TO VIDEO PROJECTION OUTLET.
- WP = WEATHERPROOF.
- Y = MOUNT ADJACENT TO TECHNOLOGY OUTLET.
- G = COORDINATE MOUNTING HEIGHT OF RECEPTACLE WITH GOGGLE CABINET.

- DUPLEX RECEPTACLE.
- GROUND FAULT CIRCUIT INTERRUPTING DUPLEX RECEPTACLE.
- DOUBLE DUPLEX RECEPTACLE.
- EMERGENCY DUPLEX RECEPTACLE.
- EMERGENCY GROUND FAULT CIRCUIT INTERRUPTING DUPLEX.
- EMERGENCY DOUBLE DUPLEX RECEPTACLE.
- GROUND FAULT CIRCUIT INTERRUPTING DOUBLE DUPLEX RECEPTACLE.
- SPECIAL PURPOSE RECEPTACLE, RECEPTACLE TO MATCH EQUIPMENT REQUIREMENTS. RATING AS INDICATED BY CIRCUIT BREAKER SIZE.
- GROUND FAULT CIRCUIT INTERRUPTING TRIPLEX RECEPTACLE.
- TRIPLEX RECEPTACLE.
- DUPLEX RECEPTACLE WITH ONE HALF SWITCHED. SUBSCRIPT INDICATES SWITCH CONTROL.
- U2 — 2 USB CHARGERS WITH TAMPER-RESISTANT DUPLEX RECEPTACLE.
- U4 — 4 USB CHARGER RECEPTACLE.
- FD — FLUSH MOUNTED FLOOR BOX WITH DUPLEX RECEPTACLE.
- FT — FLUSH MOUNTED FLOOR BOX WITH TRANSIENT VOLTAGE SUPPRESSION DUPLEX RECEPTACLE.
- FLUSH MOUNTED FLOOR BOX WITH SPECIAL PURPOSE RECEPTACLE.
- FLUSH MOUNTED FLOOR BOX WITH DOUBLE GROUND FAULT CIRCUIT INTERRUPTING DUPLEX RECEPTACLE.
- 120V, 20A DUPLEX RECEPTACLE NEMA 5-20R, MOUNTED TO EQUIPMENT RACK
- 120V, 30A TWIST LOCK RECEPTACLE NEMA L5-30R, MOUNTED TO CABLE TRAY.
- 120V, 30A TWIST LOCK RECEPTACLE NEMA L5-30R, WALL MOUNTED.
- 208V, 1ø 30A TWIST LOCK RECEPTACLE NEMA L6-30R, MOUNTED TO CABLE TRAY.
- 208V, 1ø 30A TWIST LOCK RECEPTACLE NEMA L6-30R, WALL MOUNTED.
- 208V, 3ø 20A TWIST LOCK RECEPTACLE NEMA L21-20R, MOUNTED TO CABLE TRAY.
- CR — WHITE CORD AND REEL, WITH 12/3, 45' SJEO CORD, AND BLACK PORTABLE BOX WITH TWO DUPLEX RECEPTACLES ON END, EQUAL TO HUBBELL #HBL45123R220W.
- DC — DROP CORD WITH STRAIN RELIEF AND SINGLE RECEPTACLE ON END, ELECTRICAL CONTRACTOR TO DETERMINE CORD LENGTH IN FIELD.
- TV — FLUSH MOUNTED FLOOR BOX EQUAL TO WIREMOLD RFB6E-OG OR HUBBELL CFB6G30ROR SERIES. PROVIDE WITH DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AS INDICATED IN BOX OR ON TECHNOLOGY DRAWINGS. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING FROM EACH INDIVIDUAL TECHNOLOGY OUTLET AS REQUIRED. COORDINATE COVER COLOR WITH ARCHITECT IN FIELD.
- TV — FIRE RATED POKE THRU EQUAL TO WIREMOLD 8ATC OR HUBBELL S1R8PT SERIES. PROVIDE WITH DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AS INDICATED IN BOX OR ON TECHNOLOGY DRAWINGS. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING FROM EACH INDIVIDUAL TECHNOLOGY OUTLET AS REQUIRED. COORDINATE COVER COLOR WITH ARCHITECT IN FIELD.
- FV — FLUSH VALVE/FAUCET SENSOR POWER CONNECTION TO ALL TRANSFORMERS FOR PLUMBING FIXTURES IN ROOM COORDINATE EXACT REQUIREMENTS AND LOCATIONS WITH PLUMBING CONTRACTOR.
- ARC — AUTOMATIC RECEPTACLE CONTROL; THIS ROOM SHALL HAVE 50% OF ITS NON-COMPUTER RECEPTACLES CONTROLLED BY LIGHTING ROOM CONTROLLER AND ROOM OCCUPANCY SENSOR FOR AUTOMATIC POWER OFF TO THESE RECEPTACLES.

POWER:

- SURFACE MOUNTED 480Y/277V NORMAL PANEL
- SURFACE MOUNTED 208Y/120V NORMAL PANEL
- SURFACE MOUNTED 480Y/277V OPTIONAL STANDBY PANEL
- SURFACE MOUNTED 208Y/120V OPTIONAL STANDBY PANEL
- SURFACE MOUNTED 480Y/277V EMERGENCY PANEL
- SURFACE MOUNTED 208Y/120V EMERGENCY PANEL
- FLUSH MOUNTED 480Y/277V NORMAL PANEL
- FLUSH MOUNTED 208Y/120V NORMAL PANEL
- FLUSH MOUNTED 480Y/277V OPTIONAL STANDBY PANEL
- FLUSH MOUNTED 208Y/120V OPTIONAL STANDBY PANEL
- FLUSH MOUNTED 480Y/277V EMERGENCY PANEL
- FLUSH MOUNTED 208Y/120V EMERGENCY PANEL
- T — TRANSFORMER
- ZHF — ZERO SEQUENCE HARMONIC FILTER
- M — METER SOCKET, PROVIDE AS PER ELECTRIC UTILITY CO. STANDARDS, METER BY ELECTRIC UTILITY CO.
- SWBD — SWITCHBOARD
- ATS — AUTOMATIC TRANSFER SWITCH
- SPD — SURGE PROTECTION DEVICE
- PECB — PRIMARY ENCLOSED CIRCUIT BREAKER
- SECB — SECONDARY ENCLOSED CIRCUIT BREAKER
- MAGNETIC MOTOR STARTER, "H" INDICATES PROVIDED WITH HVAC EQUIPMENT BY HVAC CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR
- NON-FUSED DISCONNECT SWITCH, "WP" INDICATES WEATHERPROOF, "H" INDICATES PROVIDED WITH HVAC EQUIPMENT BY HVAC CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR
- FUSED DISCONNECT SWITCH, "WP" INDICATES WEATHERPROOF, "H" INDICATES PROVIDED WITH HVAC EQUIPMENT BY HVAC CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR
- DISCONNECT SWITCH, "WP" INDICATES WEATHERPROOF, "H" INDICATES PROVIDED WITH HVAC EQUIPMENT BY HVAC CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR
- THERMAL OVERLOAD TOGGLE SWITCH
- 1 — MOTOR, NUMERAL INDICATES HORSEPOWER
- G — GENERATOR
- RGA — REMOTE GENERATOR ANNUNCIATOR
- PR — PAD MOUNTED DOUBLE SIDED PEDESTAL WITH (6) GFCI WEATHERPROOF RECEPTACLES AS MANUFACTURED BY SIEMENS MODEL #T-L-8G-8G-8G-U-2M-Cx, OR EQUAL, FOR SCHOOL BUS ENGINE BLOCK HEATERS.
- PR1 — PAD MOUNTED ALUMINUM WEATHERPROOF PEDESTAL WITH (2) GFCI WEATHERPROOF RECEPTACLES AND LOCKING DOORAS MANUFACTURED BY LEGRAND MODEL #XCSPP2GRR-BK-XCSLOCK-BK OR EQUAL. COLOR SHALL BE BLACK.
- CG — COILING GATE, PROVIDED BY GENERAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- CGC — COILING GATE CONTROLLER, FURNISHED WITH GATE, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE CONTROL WIRING AS PER MANUFACTURER'S SPECIFICATIONS TO GATE, VIA 1"C.
- SP — SUMP PUMP, PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.

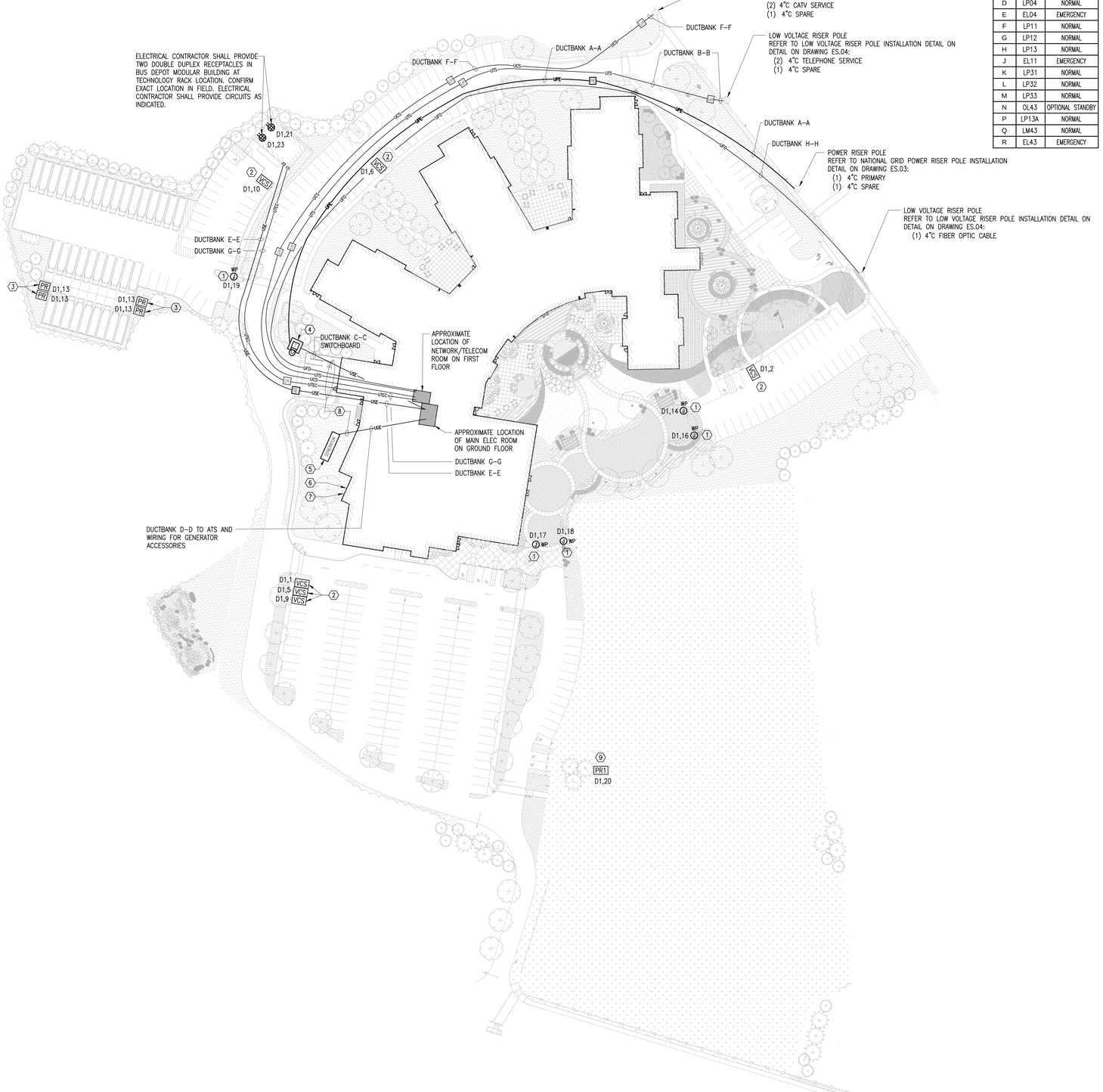
- EB — ENCLOSED CIRCUIT BREAKER
- VFD — VARIABLE FREQUENCY DRIVE, PROVIDED BY HVAC CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- ATC — AUTOMATIC TEMPERATURE CONTROL PANEL, PROVIDED BY HVAC CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- C — CONTACTOR
- R — RELAY
- MD — MOTORIZED DAMPER, PROVIDED BY HVAC CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- SV — SOLENOID VALVE, PROVIDED BY OTHERS, WIRED BY ELECTRICAL CONTRACTOR
- A — AQUASTAT, PROVIDED BY PLUMBING CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR
- WH — WATER HEATER, PROVIDED BY PLUMBING CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR
- J — JUNCTION BOX
- B — OUTLET WITH BLANK PLATE
- PB — PULL BOX
- DP — POWERED DOOR CONTROLLER, PROVIDED BY GENERAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR
- P — PUSH PLATE, PROVIDED BY GENERAL CONTRACTOR FOR POWERED DOOR, ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING TO POWERED DOOR CONTROLLER, VIA 1"C. AS PER MANUFACTURER'S SPECIFICATIONS
- DL — DOOR LOCK FOR CARD READER
- OH — OVERHEAD DOOR, PROVIDED BY GENERAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR
- OH — OVERHEAD DOOR CONTROLLER, PROVIDED BY GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING TO OVERHEAD DOOR, VIA 1"C. AS PER MANUFACTURER'S SPECIFICATIONS
- PS — PROJECTION SCREEN, PROVIDED BY GENERAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR
- PSC — PROJECTION SCREEN CONTROLLER, FURNISHED WITH HOISTS, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE CONTROL WIRING AS PER MANUFACTURER'S SPECIFICATIONS TO PROJECTION SCREEN, VIA 1"C.
- HS — HOIST, PROVIDED BY GENERAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR
- HSC — HOIST CONTROLLER, FURNISHED WITH HOIST, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
- DFC — DESTRATIFICATION FAN SOLID STATE CONTROLLER, PROVIDE WIRING TO DESTRATIFICATION FAN, VIA 1"C. AS PER MANUFACTURER'S SPECIFICATIONS
- DESTRATIFICATION FAN, CONTROLLED VIA SOLID STATE CONTROLLER.
- BCS — BLEACHER CONTROL BOX, FURNISHED WITH BLEACHERS, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING AS PER MANUFACTURER'S SPECIFICATIONS TO BLEACHERS, VIA 1"C.
- BKS — BLEACHER KEY SWITCH, FURNISHED WITH BLEACHERS, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE CONTROL WIRING AS PER MANUFACTURER'S SPECIFICATIONS TO BLEACHERS, VIA 1"C.
- BW — BASKETBALL BACKSTOP WINCH, PROVIDED BY GENERAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- BWS — BASKETBALL BACKSTOP WINCH KEY SWITCH, FURNISHED WITH WINCH, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING AS PER MANUFACTURER'S SPECIFICATIONS TO WINCH, VIA 1"C.. SUBSCRIPT INDICATES WINCH CONTROL.
- WS — MOTORIZED WINDOW SHADE, PROVIDED BY GENERAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE ALL POWER AND CONTROL WIRING FOR COMPLETE AND OPERATIONAL SYSTEM. ELECTRICAL CONTRACTOR TO ASSUME THAT THE MOTOR WILL COME WITH A 6' LONG WHIP FROM GENERAL CONTRACTOR TO CONNECT TO JUNCTION BOX PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE ALL WIRING FROM JUNCTION BOX TO SHADE CONTROLLERS PROVIDED BY GENERAL CONTRACTOR; INSTALLED BY ELECTRICAL CONTRACTOR. JUNCTION BOX LOCATION TO BE COORDINATED IN THE FIELD BETWEEN ARCHITECT, SHADE INSTALLER AND ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO ASSUME THAT ONE SHADE CONTROLLER WILL CONTROL UP TO FOUR SHADES. IF WINDOWS HAVE DOUBLE SHADES TWO CONTROLLERS WILL BE PROVIDED. ONE CONTROLLER TO OPERATE UP TO 4 LIGHT FILTERING SHADES AND ONE CONTROLLER TO CONTROL UP TO FOUR BLACK OUT SHADES.
- WSC — WINDOW SHADE CONTROLLER, FURNISHED WITH OPERABLE WINDOW SHADE, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE CONTROL WIRING AS PER MANUFACTURER'S SPECIFICATIONS TO WINDOW SHADE, VIA 1"C.
- CD — CURTAIN DIVIDER, PROVIDED BY GENERAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- CDS — CURTAIN DIVIDER KEY SWITCH, FURNISHED WITH CURTAIN DIVIDER, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING AS PER MANUFACTURER'S SPECIFICATIONS TO CURTAIN DIVIDER, VIA 1"C., SUBSCRIPT INDICATES CURTAIN DIVIDER CONTROL
- SC — SCOREBOARD; PROVIDE DUPLEX RECEPTACLE ADJACENT TO SCOREBOARD
- ST — SHOT TIMER; PROVIDE DUPLEX RECEPTACLE ADJACENT TO SHOT TIMER
- SR — SCOREBOARD/SHOT TIMER CONTROL RECEPTACLE BOX
- DYE — DYE ULTRAVIOLET SYSTEM CONTROL PANEL, PROVIDED BY PLUMBING CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT TO CONTROL PANEL, PLUMBING CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING TO DYE ULTRAVIOLET SYSTEM AS REQUIRED.
- GSCP — GREASE INTERCEPTOR CONTROL PANEL, PROVIDED BY PLUMBING CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT TO CONTROL PANEL, PLUMBING CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING TO GREASE INTERCEPTOR SYSTEM AS REQUIRED.
- HD — ELECTRIC HAND DRYER, PROVIDED BY GENERAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR
- UB — UTILITY CONTROL BOX, PROVIDED BY PLUMBING CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE PUSHBUTTON IN CONTROL UTILITY BOX SO THAT WHEN BUTTON IS PUSHED STUDENT STATION RECEPTACLE (GFCI) CIRCUITS SHALL BE SHUNT TRIPPED.
- UBP — UTILITY CONTROL RELAY PANEL, FURNISHED BY PLUMBING CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
- EMERGENCY SHUTOFF MUSHROOM BUTTON, FOR CONNECTION TO SHUNT TRIP CIRCUIT BREAKER, MOUNTED AT 48" TO CENTER A.F.F.
- GD — GARBAGE DISPOSAL, PROVIDED BY OTHERS, WIRED BY ELECTRICAL CONTRACTOR
- HT — HEAT TRACE CIRCUIT
- WC — ELECTRIC WATER COOLER/FOUNTAIN, PROVIDED BY PLUMBING CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- SJ — SECURITY SYSTEM JUNCTION BOX POWER IN IDF AND MDF ROOMS, CONNECT ALL SECURITY EQUIPMENT IN THE ROOM TO THIS CIRCUIT, REFER TO TECHNOLOGY DRAWINGS AND SPECIFICATIONS FOR REQUIREMENTS.
- CP — JUNCTION BOX POWER FOR CLASSROOM ELECTRIFIED DOORS LOCATED ABOVE CEILING.
- RWS — RECYCLED WATER SYSTEM CONTROL PANEL, PROVIDED BY PLUMBING CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT TO CONTROL PANEL, PLUMBING CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING TO RECYCLED WATER SYSTEM AS REQUIRED.
- VCS — NETWORKED ELECTRIC VEHICLE CHARGING STATION, WITH INTEGRAL MODEM, CHARGE POINT #CT4011-GW1-CT4000PMGMT-CT4001CCM-CT4000ASSURE-CPSUPPORTACTIVE, PEDESTAL (BOLLARD) MOUNTED, OR EQUAL.
- DW — DISHWASHER, PROVIDED BY OTHERS, WIRED BY ELECTRICAL CONTRACTOR
- RH — RANGE EXHAUST HOOD, PROVIDED BY OTHERS, WIRED BY ELECTRICAL CONTRACTOR
- CT — COOKTOP, PROVIDED BY OTHERS, WIRED BY ELECTRICAL CONTRACTOR
- WO — WALL OVEN, PROVIDED BY OTHERS, WIRED BY ELECTRICAL CONTRACTOR
- OW — OPERABLE WALL, PROVIDED BY GENERAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- OWC — OPERABLE WALL CONTROLLER, FURNISHED WITH OPERABLE WALL, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE CONTROL WIRING AS PER MANUFACTURER'S SPECIFICATIONS TO WALL VIA 1"C.

FIRE ALARM:

- FACP — FIRE ALARM CONTROL PANEL
- FAA — FIRE ALARM ANNUNCIATOR PANEL
- F — FIRE ALARM COMBINATION HORN OR SPEAKER/STROBE, AS PER SPEC, MOUNTED AT 80" A.F.F. OR 6" BELOW CEILING WHICHEVER IS LOWER TO LENS. "WP" INDICATES WEATHERPROOF, "WG" INDICATES WITH WIREGUARD. CANDELA RATING SHALL BE 15, UNLESS OTHERWISE NOTED. "SW" DENOTES 8 WATT HIGH AUDIO OUTPUT SPEAKER.
- F — FIRE ALARM STROBE MOUNTED AT 80" A.F.F. OR 6" BELOW CEILING WHICHEVER AT 80" A.F.F. OR 6" BELOW CEILING WHICHEVER IS LOWER TO LENS. "WP" INDICATES WEATHERPROOF, "WG" INDICATES WITH WIREGUARD. CANDELA RATING SHALL BE 15, UNLESS OTHERWISE NOTED.
- F — FIRE ALARM COMBINATION HORN OR SPEAKER/STROBE, AS PER SPEC, MOUNTED ON CEILING "WP" INDICATES WEATHERPROOF, "WG" INDICATES WIREGUARD. CANDELA RATING SHALL BE 15, UNLESS OTHERWISE NOTED.
- F — FIRE ALARM STROBE MOUNTED ON CEILING "WP" INDICATES WEATHERPROOF, "WG" INDICATES WIREGUARD. CANDELA RATING SHALL BE 15, UNLESS OTHERWISE NOTED.
- F — FIRE ALARM BEACON, MOUNTED AT 80" A.F.F. OR FINISHED GRADE TO CENTER.
- H — FIRE ALARM HORN MOUNTED AT 80" A.F.F. OR 6" BELOW CEILING WHICHEVER IS LOWER TO CENTER. "CLG" INDICATES CEILING TYPE, "WP" INDICATES WEATHERPROOF.
- F — FIRE ALARM PULL STATION MOUNTED AT 48" A.F.F. TO CENTER. "WG" INDICATES WITH WIREGUARD.
- S — FIRE ALARM SMOKE DETECTOR
- H — FIRE ALARM COMBINATION RATE OF RISE AND ONE HUNDRED THIRTY FIVE DEGREE TO ONE HUNDRED FORTY DEGREE FIXED TEMPERATURE HEAT DETECTOR. "FT" INDICATES FIXED ONE HUNDRED NINETY DEGREE TO TWO HUNDRED DEGREE TEMPERATURE, "AC" INDICATES ABOVE CEILING.
- WD — WEATHERPROOF AND EXPLOSION PROOF HEAT DETECTOR
- CO — ADDRESSABLE WALL MOUNTED FIRE ALARM CARBON MONOXIDE DETECTOR. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR MOUNTING HEIGHT.
- DS — FIRE ALARM DUCT SMOKE DETECTOR, FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, INSTALLED BY HVAC CONTRACTOR.
- RTS — FIRE ALARM KEYED REMOTE TEST STATION FOR DUCT SMOKE DETECTOR, MOUNTED AT 48" A.F.F. IN CORRIDOR BELOW DUCT SMOKE DETECTOR.
- DH — FIRE ALARM DOOR HOLDER
- F — FIRE ALARM MASTER BOX
- A — FIRE ALARM RADIO MASTER BOX ANTENNA, MOUNT AT HIGHEST POINT ON BUILDING EXTERIOR.
- K — FIRE ALARM KEY BOX, KNOX 3200 SERIES, TO BE INSTALLED AS PER FIRE DEPARTMENT REQUIREMENTS.
- FIRE ALARM REMOTE INDICATOR LED, MOUNTED 6" ABOVE DOOR TO BOTTOM
- TS — FIRE ALARM TAMPER SWITCH, FURNISHED AND INSTALLED BY FIRE PROTECTION CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- FS — FIRE ALARM FLOW SWITCH, FURNISHED AND INSTALLED BY FIRE PROTECTION CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- PS — FIRE ALARM PRESSURE SWITCH, FURNISHED AND INSTALLED BY FIRE PROTECTION CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- PIV — FIRE ALARM POST INDICATING VALVE, FURNISHED AND INSTALLED BY FIRE PROTECTION CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- CR — FIRE ALARM ADDRESSABLE CONTROL RELAY MODULE
- M — FIRE ALARM ADDRESSABLE MONITOR MODULE
- IM — FIRE ALARM ADDRESSABLE ISOLATION MODULE
- SYN — FIRE ALARM SYNCHRONIZATION MODULE
- FPS — FIRE ALARM POWER EXPANDER UNIT FOR NOTIFICATION APPLIANCES
- SD — LOCAL ONLY SELF CONTAINED SMOKE ALARM, 120V, PHOTOELECTRIC TYPE, WITH BATTERY BACKUP, INTERCONNECTABLE.
- SC — LOCAL ONLY SELF CONTAINED COMBINATION SMOKE/CARBON MONOXIDE ALARM, 120V, WITH BATTERY BACKUP, INTERCONNECTABLE.
- CO — LOCAL ONLY SELF CONTAINED CARBON MONOXIDE ALARM, 120V, WITH BATTERY BACKUP, INTERCONNECTABLE.
- S — LOCAL ONLY STROBE, 120V, "C" INDICATES CEILING TYPE. UNLESS OTHERWISE NOTED, CANDELA RATING SHALL BE 177.
- F — FIRE-O-MATIC
- AR — AREA OF REFUGE CALL STATION
- ARP — AREA OF REFUGE ANNUNCIATOR PANEL
- DR — FIRE ALARM DRILL SWITCH
- BDA — BIDIRECTIONAL AMPLIFIER
- BDM — BIDIRECTIONAL AMPLIFIER MONITORING PANEL
- A — AMBER LIGHT FOR ANNUNCIATION OF CARBON MONOXIDE
- R — RED LIGHT FOR ANNUNCIATION OF FIRE ALARM MASTERBOX
- FAMB — FIRE ALARM MESSAGE BOARD. VERIFY EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT/OWNER'S REPRESENTATIVE PRIOR TO THE START OF ANY WORK.
- FD — FIRE SMOKE DAMPER, PROVIDED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- FB — FIRE ALARM BELL, PROVIDED BY FIRE PROTECTION CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- SH — SMOKE HATCH, PROVIDED BY GENERAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- SH — SMOKE HATCH SWITCH, FURNISHED BY GENERAL CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.

SITE:

- PE — PRIMARY ELECTRIC MANHOLE TO MEET ELECTRIC UTILITY CO. STANDARDS
- LM — LOW VOLTAGE MANHOLE TO MEET SERVICE PROVIDER STANDARDS
- SE — SECONDARY ELECTRIC HANDHOLE
- LH — LOW VOLTAGE HANDHOLE
- UTILITY POLE, PROVIDED BY ELECTRIC UTILITY CO.
- UPE — UNDERGROUND PR



480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			

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BEVERLY, MA 01915

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KEYNOTE LEGEND:

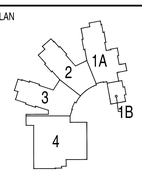
1. WEATHERPROOF JUNCTION BOX FOR POWER CONNECTION TO GATE.
2. VEHICLE CHARGING STATION REFER TO DETAIL #2 ON ELECTRICAL SITE DETAILS DRAWING ES.05.
3. PAD MOUNTED DOUBLE SIDED PEDESTAL REFER TO DETAIL #3 ON ELECTRICAL SITE DETAILS DRAWING ES.05.
4. PAD MOUNTED TRANSFORMER, REFER TO NATIONAL GRID TRANSFORMER PAD, OIL CONTAINMENT DETAIL, AND OTHER ASSOCIATED DETAILS ON DRAWING ES.03.
5. EMERGENCY GENERATOR, REFER TO GENERATOR FOUNDATION DETAIL ON DRAWING ES.03.
6. LOCATION OF FUTURE EXTERIOR PV SYSTEM DISCONNECT SWITCH, RUN CONDUITS TO THIS LOCATION. CAP CONDUITS 12" ABOVE FINISHED GRADE.
7. LOCATION OF FUTURE EXTERIOR PV SYSTEM INVERTER, RUN CONDUITS TO THIS LOCATION. CAP CONDUITS 12" ABOVE FINISHED GRADE.
8. ONLY SERVICE CONDUITS ENTERING THE BUILDING FOR ELECTRIC, LOW VOLTAGE AND BUS DEPOT BUILDING SHALL BE RUN UNDER SLAB. ALL OTHER BRANCH CONDUITS TO BE RUN OVERHEAD.
9. PAD MOUNTED PEDESTAL REFER TO DETAIL #1 ON ELECTRICAL SITE DETAILS DRAWING ES.05.

90% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

NORTH ARROW

KEYPLAN

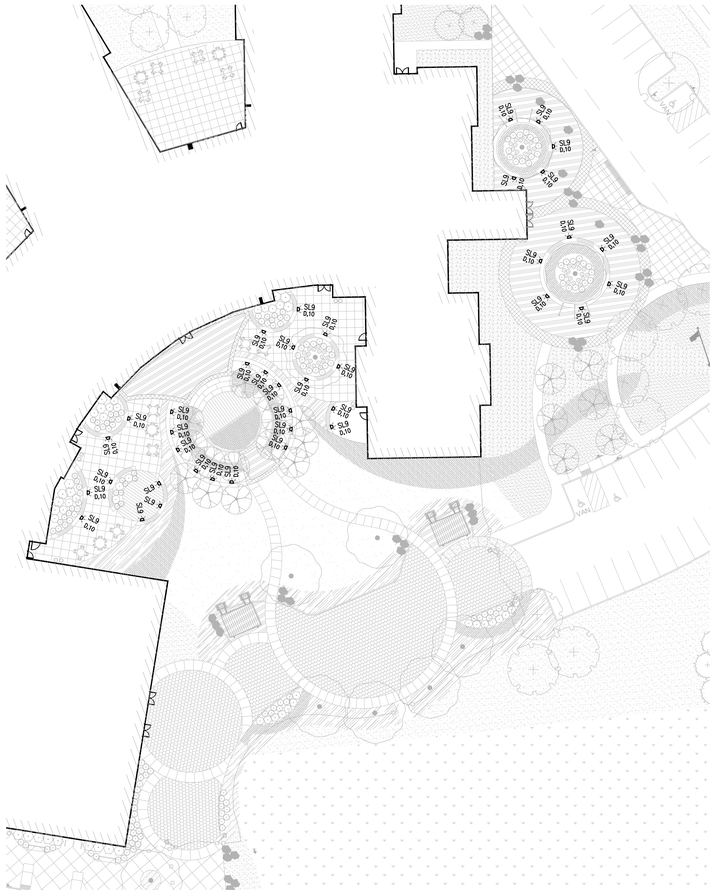


DRAWING NAME:

SITE PLAN ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	1"=50'-0"
JOB NO.:	1403.00
DATE:	July 25, 2016

DRAWING NUMBER: ES.01



2 SITE LIGHTING PART PLAN
1" = 30'-0"

1 SITE LIGHTING PLAN
1" = 50'-0"

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			

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GENERAL NOTE LEGEND:

1. 1" CONDUIT MINIMUM SIZE SHALL BE INSTALLED.
2. SITE LIGHTING FIXTURE MINIMUM DISTANCE FROM LEED LIGHTING BOUNDARY "LOW" LINE SHALL BE 15'-0" IN ORDER TO ACHIEVE LEED VERSION 4 SUSTAINABLE SITES LIGHT POLLUTION REDUCTION OPTION 1 BUG RATING METHOD CREDIT.

KEYNOTE LEGEND:

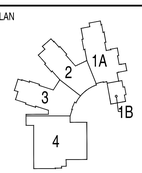
1. WEATHERPROOF JUNCTION BOX FOR POWER CONNECTION TO BACK-LIT SIGN.
2. WEATHERPROOF JUNCTION BOX FOR POWER CONNECTION TO BUS SHELTER.

90% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

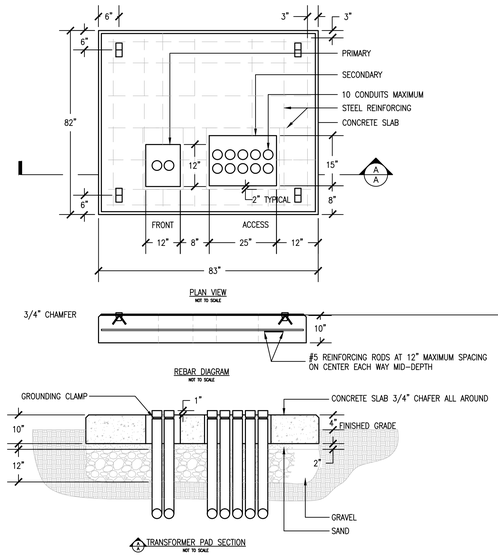
NORTH ARROW

KEYPLAN



DRAWING NAME:
SITE LIGHTING PLAN ELECTRICAL

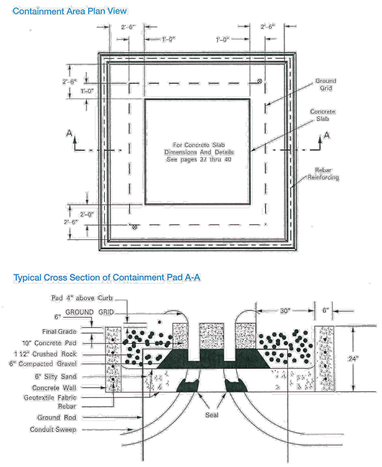
DRAWN BY: JGM
REVIEWED BY: RCB
SCALE: AS NOTED
JOB NO.: 1403.00
DATE: July 25, 2016
DRAWING NUMBER: ES.02



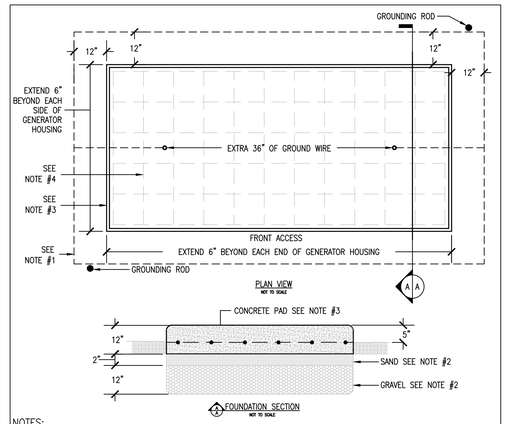
NOTES:

1. THIS DETAIL IS FOR BIDDING PURPOSES ONLY. THE ELECTRICAL CONTRACTOR SHALL REFER AND CONFORM TO THE LATEST NATIONAL GRID SUPPLEMENT FOR ELECTRICAL INSTALLATIONS FOR FURTHER INSTRUCTIONS. COORDINATE EXACT TRANSFORMER PAD DETAIL REQUIREMENTS FOR PROJECT WITH NATIONAL GRID.
2. TRANSFORMER MINIMUM CLEARANCE FROM BUILDING:
   a. 5'-0" FROM EXTERIOR NON-COMBUSTIBLE WALL.
   b. 10-0" FROM VENTILATING DUCT, WINDOW, FIRE ESCAPE, DOOR.
   c. FOR EXITS FROM A PUBLIC ASSEMBLY ROOM, SUCH AS AN AUDITORIUM, CLEARANCE SHALL BE INCREASED TO 25'-0" UNLESS THERE IS A NON-COMBUSTIBLE BARRIER.
   d. IN CASES WHERE REQUIRED DISTANCES CANNOT BE MET, A NONCOMBUSTIBLE BARRIER, 6 FOOT MINIMUM HEIGHT SHALL BE CONSTRUCTED. THIS BARRIER SHALL BE DESIGNED TO PROVIDE ADEQUATE FIRE PROTECTION TO THE STRUCTURE. A DESIGN FOR THIS STRUCTURE SHALL BE PREPARED AND SEALED BY THE CUSTOMER'S PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT AND SHALL FURTHER BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION OF BUILDING CODE ENFORCEMENT.
3. TRANSFORMER MINIMUM CLEARANCE FROM OBJECTS:
   a. AN AREA MEASURING 10'-0" FROM ANY POINT OF THE TRANSFORMER PAD SHALL BE KEPT FREE OF ALL
      i. BURIED WATER LINES, STORM DRAINAGE LINES, GAS LINES, OTHER ELECTRIC LINES.
      ii. UNDERGROUND FUEL STORAGE TANKS.
      iii. ABOVE GRADE FIRE HYDRANTS, CELL TOWERS, SELF CONTAINED DIESEL BYPRODUCT FUELED GENERATORS, AND OUTDOOR ENCLOSED GENERATORS.
   b. THE 10'-0" CLEARANCE MAY BE REDUCED WITH A NONCOMBUSTIBLE BARRIER AND SHALL NOT BE LESS THAN 5'-0" FROM THE EDGE OF THE TRANSFORMER PAD. CLEARANCE REDUCTION SHALL BE APPROVED BY NATIONAL GRID AND THE LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO NON-COMBUSTIBLE BARRIER INSTALLATION.
4. AN AREA MEASURING 25'-0" MINIMUM FROM ANY POINT OF THE TRANSFORMER PAD SHALL BE KEPT FREE OF ALL:
   a. EXPOSED WATER LINES, GAS PIPING, SEWER LINES.
   b. OPEN-CONDUCTOR ELECTRIC LINES.
   c. ABOVE GRADE GAS METERS OR REGULATOR VENTS, FUEL STORAGE TANKS OR DISPENSING UNITS, NON-ENCLOSED GASOLINE/PROPANE/LP OR LNG GAS FUELED GENERATORS.
   d. CHEMICAL STORAGE SILOS/TANKS.
   e. THE 25'-0" CLEARANCE MAY BE REDUCED TO 10'-0" WITH A NONCOMBUSTIBLE BARRIER AND SHALL NOT BE LESS THAN 5-0" FROM THE EDGE OF TRANSFORMER PAD. CLEARANCE REDUCTION SHALL BE APPROVED BY NATIONAL GRID AND THE LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO NON-COMBUSTIBLE BARRIER INSTALLATION.
5. NO PORTION OF THE BUILDING OR BUILDING STRUCTURE SHALL OVERHANG ANY PART OF THE PAD MOUNTED TRANSFORMER.
6. PAD MOUNTED TRANSFORMER SHALL NOT BE PLACED BENEATH A WINDOW.
7. EQUIPMENT SHALL BE LOCATED WITHIN 10 FEET OF A WAY OPEN TO VEHICULAR TRAFFIC AND MINIMUM DISTANCE FROM ANY STRUCTURE SUCH AS POLES, FENCES, ETC. AS A MEANS TO PERMIT ACCESSIBILITY FOR INSTALLATION AND MAINTENANCE. A MINIMUM OF 10 FEET OF CLEAR SPACE SHALL BE MAINTAINED IN FRONT OF THE EQUIPMENT DOORS TO PERMIT INSTALLATION AND REMOVAL OF SEPARABLE CONNECTORS AND FUSES WITH SHOTGUN STICK.
8. ALL TRENCHING, STEEL REINFORCING, CONCRETE WORK, BACKFILLING, GRADING, RESURFACING, AND CONSTRUCTION OF NONCOMBUSTIBLE BARRIERS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1	NATIONAL GRID TRANSFORMER PAD DETAIL	SCALE: N.T.S.



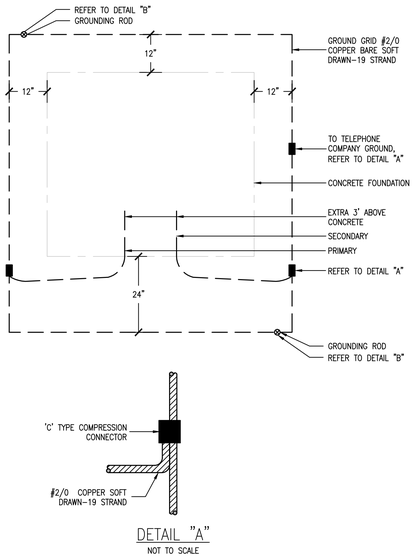
4	NATIONAL GRID TRANSFORMER PAD OIL CONTAINMENT DETAIL	SCALE: N.T.S.



NOTES:

1. GROUND GRID – INSTALL #1/0 7 STRAND BARE COPPER WIRE LOOP 1'-0" BELOW GRAND. BOND TO ALL EXPOSED METALLIC CONDUIT AND LEAVE 3'-0" OF WIRE ABOVE PAD FOR GROUNDING GENERATOR AT TWO (2) OPPOSITE POINTS IN THE CABLE CONDUIT OPENINGS. INSTALL TWO (2) 8'-0" GALVANIZED STEEL (3/4") GROUND RODS AND TWO (2) APPROVED CONNECTORS BELOW GRADE EXPOSED.
2. GRAVEL AND SAND – SHALL BE PLACED AS SHOWN IN SECTION "AA". THE GRAVEL BEING COMPACTED AND THE SAND BEING THOROUGHLY WETTED JUST BEFORE PLACING THE CONCRETE.
3. CONCRETE SLAB – INSTALL CONCRETE IN ACCORDANCE WITH MIX #4-STD 0211-UNLESS OTHERWISE SPECIFIED. ALL EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
4. REINFORCING – SHALL BE #4-GRADE 60 BARS AND SHALL CONFORM TO ASTM STD. A-615 OF LATEST DATE. REINFORCING RODS SHALL BE LOCATED IN CENTER OF THE SLAB WITH A MIN. OF 2" CLEARANCE FROM FACE OF CONCRETE.
5. CONFIRM FOUNDATION REQUIREMENTS WITH GENERATOR MANUFACTURER PRIOR TO INSTALLATION.
6. ALL TRENCHING, STEEL REINFORCING, CONCRETE WORK, BACKFILLING, GRADING, AND RESURFACING SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

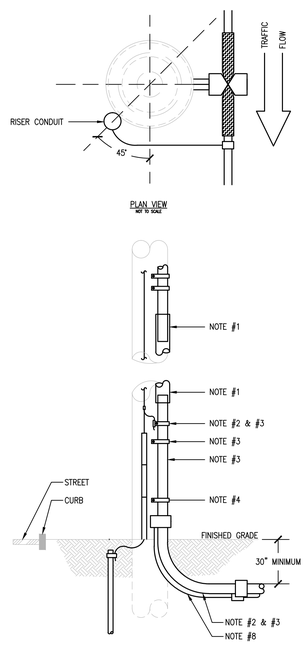
5	GENERATOR FOUNDATION DETAIL	SCALE: N.T.S.



NOTES:

1. TWO 5/8" DIAMETER, 8'-0" LONG COPPER WELD GROUND RODS AND APPROVED CONNECTORS SHALL BE INSTALLED TO 12" BELOW FINISHED GRADE. LEAVE THE GROUND RODS AND GRID EXPOSED UNTIL INSPECTED BY NATIONAL GRID. THE GROUND GRID IS TO BE COMPLETE AND BACKFILLED PRIOR TO ENERGIZING THE TRANSFORMER. CONNECTIONS TO GROUND GRID TO BE MADE AS SHOWN ON DETAILS "A" AND "B" ABOVE, EXCEPT THAT EXOTHERMIC WELDING ("CAD WELD") SHALL BE ACCEPTABLE ALTERNATIVE TO COMPRESSION CONNECTION. BOLTED CONNECTORS ARE ONLY ACCEPTABLE FOR THE GROUND GRID CONNECTIONS TO THE GROUND RODS. NATIONAL GRID WILL INSTALL THE GROUP TAPS ONTO THE TRANSFORMER.

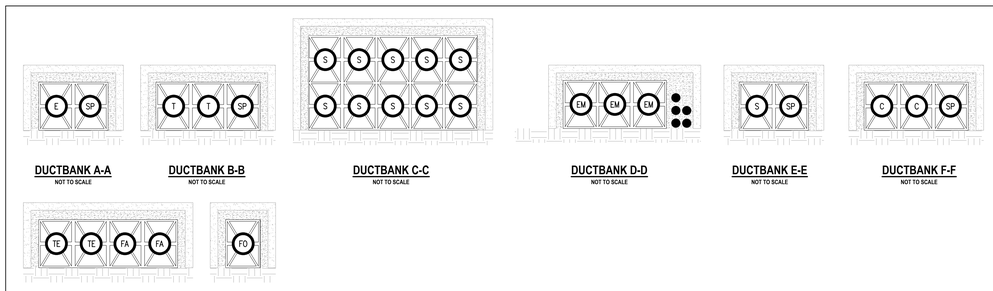
2	NATIONAL GRID TRANSFORMER GROUNDING DETAIL	SCALE: N.T.S.



NOTES:

1. U-GUARD
2. GALVANIZED STEEL CONDUIT AND BEND ARE TO USED, THEY SHALL BE GROUNDED BY BONDING TO AN APPROVED U-BOLT TYPE GROUND CLAMP 6" FROM TOP OF THE CONDUIT. A 24" CONDUCTOR SHALL BE PROVIDED TO EXTEND TO NATIONAL GRID'S GROUNDING CONDUCTOR. THE CONDUCTOR SHALL BE SIZED AS REQUIRED BY NATIONAL ELECTRICAL CODE, ARTICLE 250, BUT IN NO CASE SHALL IT BE SMALLER THAN #4 AWG COPPER. THE BEND SHALL BE CORROSION RESISTANT.
3. GALVANIZED STEEL CONDUIT, GALVANIZED STEEL SWEEP, ATTACHMENT CLAMPS, GROUNDING CLAMP, AND 24" GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. THE CONDUIT SHALL RISE ON THE SIDE OF THE POLE AWAY FROM TRAFFIC UP TO 8'-0" TO 11'-0". THE ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF POLE WITH NATIONAL GRID PRIOR TO INSTALLATION.
4. PIPE STRAPS SHALL BE INSTALLED AT NO MORE THAN 30" INTERVALS.
5. THE CONDUIT BURIAL DEPTH SHALL BE 30" MINIMUM.
6. NATIONAL GRID SHALL DESIGNATE CONDUIT RISER LOCATIONS ON POLE. ALL PRIMARY RISERS SHALL BE GALVANIZED STEEL, THIS INCLUDE THE 90 DEGREE SWEEP. PER NESC ALL STEEL RISERS MUST BE BONDED 6" DOWN FROM TOP OF RISER AND THE BOND MUST BE AT LEAST 8'-0" HIGH FROM FINISHED GRADE.
7. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL BOND CLAMPS AND TAP. NATIONAL GRID WILL MAKE THE BOND CONNECTION FROM THAT RISER BOND TAP TO THE GROUND SYSTEM ON THE POLE. SPARE RISER SWEEP SHALL BE BONDED AS WELL. RISER SWEEP IN DIRECT BURIED APPLICATIONS SHALL BE CONCRETE ENCASED.
8. PRIMARY ELECTRIC SERVICE SPARE CONDUIT 6" ABOVE FINISHED GRADE.
9. ALL TRENCHING, CONCRETE WORK, BACKFILLING, GRADING, AND RESURFACING SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

3	NATIONAL GRID POWER RISER POLE INSTALLATION DETAIL	SCALE: N.T.S.

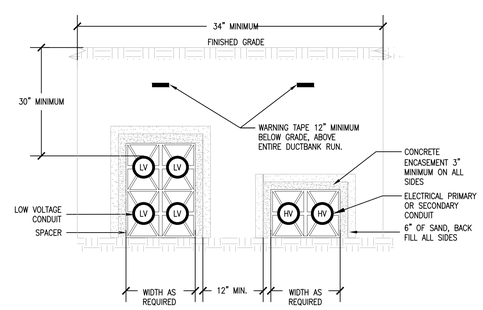


- FA 2" CONDUIT FOR FIRE ALARM
- C 4" CONDUIT FOR CATV SERVICE
- E 4" CONDUIT FOR PRIMARY ELECTRICAL SERVICE
- EM 4" CONDUIT FOR EMERGENCY GENERATOR TO ATS FEEDER
- S2 2" CONDUIT FOR SECONDARY ELECTRICAL SERVICE
- TE 4" CONDUIT FOR TECHNOLOGY
- FO 4" CONDUIT FOR FIBER OPTIC CABLE
- T2 2" CONDUIT FOR TELEPHONE
- S 4" CONDUIT FOR SECONDARY ELECTRICAL SERVICE
- SP SPARE 4" CONDUIT
- T 4" CONDUIT FOR TELEPHONE SERVICE
- ● CONDUIT FOR REMOTE ANNUNCIATOR WIRING, ATS CONTROL CIRCUITS, BLOCK HEATER, ANNUNCIATION OF GENERATOR FAILURE, AND BATTERY CHARGER CIRCUITS. SIZE SHALL BE 1" EXCEPT FOR GENERATOR ANNUNCIATOR WHICH SHALL BE 2".

NOTES:

1. REFER TO TYPICAL DUCTBANK CONSTRUCTION DETAIL FOR ADDITIONAL INFORMATION.
2. REFER TO ELECTRICAL SITE PLAN FOR ALTERNATES AS IT RELATES TO DUCTBANKS.

DUCTBANK CONFIGURATION DETAILS
NOT TO SCALE



DUCTBANK CONSTRUCTION DETAIL
NOT TO SCALE

DUCTBANK CONSTRUCTION NOTES

1. ALL CONDUITS ARE PVC, SIZE PER DUCTBANK DETAILS.
2. ALL DIMENSIONS ARE MINIMUM.
3. ALL DESCRIPTIONS ARE TYPICAL FOR THIS DIAGRAM.
4. ALL BASE AND INTERMEDIATE SPACERS TO BE INTERLOCKING TYPE.
5. ALL SPACERS TO BE CONSTRUCTED OF HIGH IMPACT PVC.
6. ALL SPACERS TO BE INSTALLED AT 5'-0" CENTERS ALONG THE ENTIRE RUN.
7. CONDUIT DUCTBANK CROSS SECTION IS SUBJECT TO APPROVAL BY UTILITY COMPANY, PRIOR TO CONSTRUCTION.
8. DUCTBANK TRENCH MUST BE INSPECTED, APPROVED AND COORDINATED WITH THE UTILITY COMPANY REQUIREMENTS, PRIOR TO INSTALLATION AND PRIOR TO BACKFILL.
9. ALL TRENCHING, CONCRETE WORK, BACKFILLING, GRADING, AND RESURFACING SHALL PROVIDED BY THE GENERAL CONTRACTOR. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

6	DUCTBANK DETAILS	SCALE: N.T.S.

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GENERAL NOTE LEGEND:

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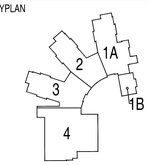
NOT FOR CONSTRUCTION

NORTH ARROW

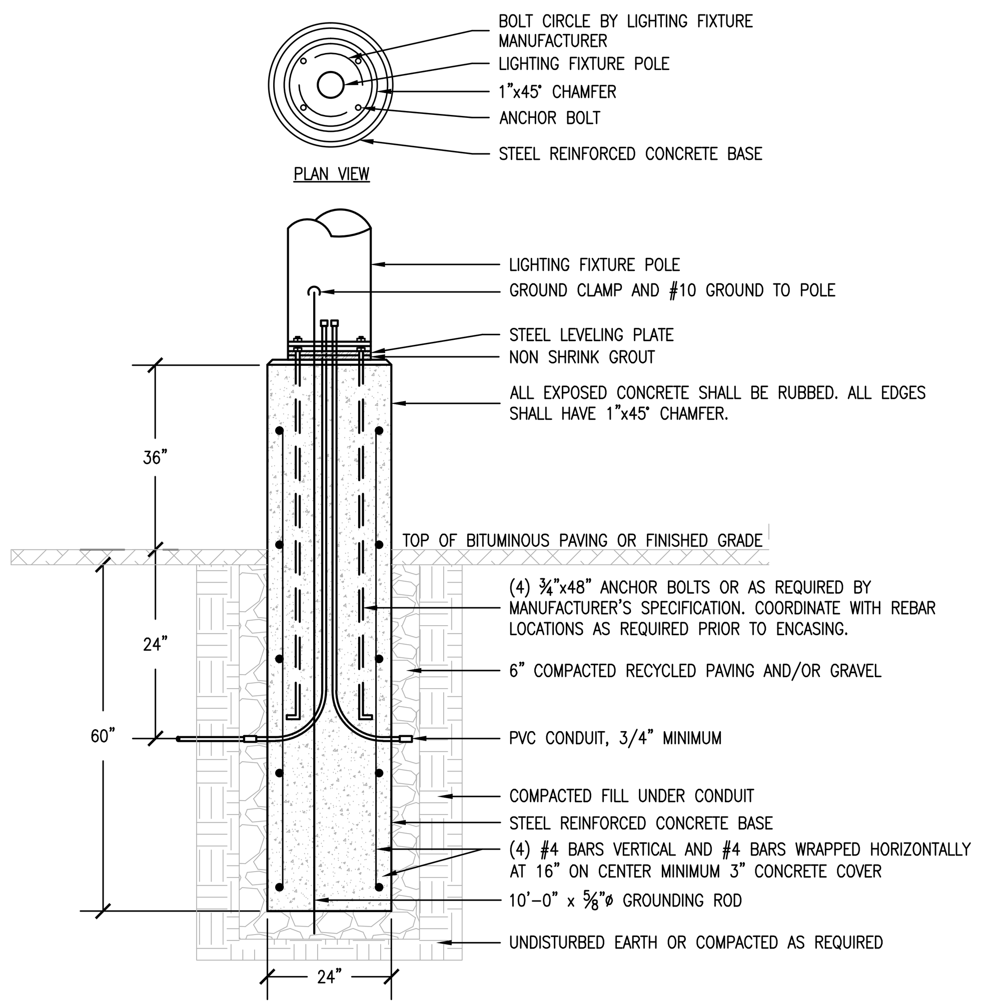
KEYPLAN



DRAWING NAME:

SITE DETAILS ELECTRICAL

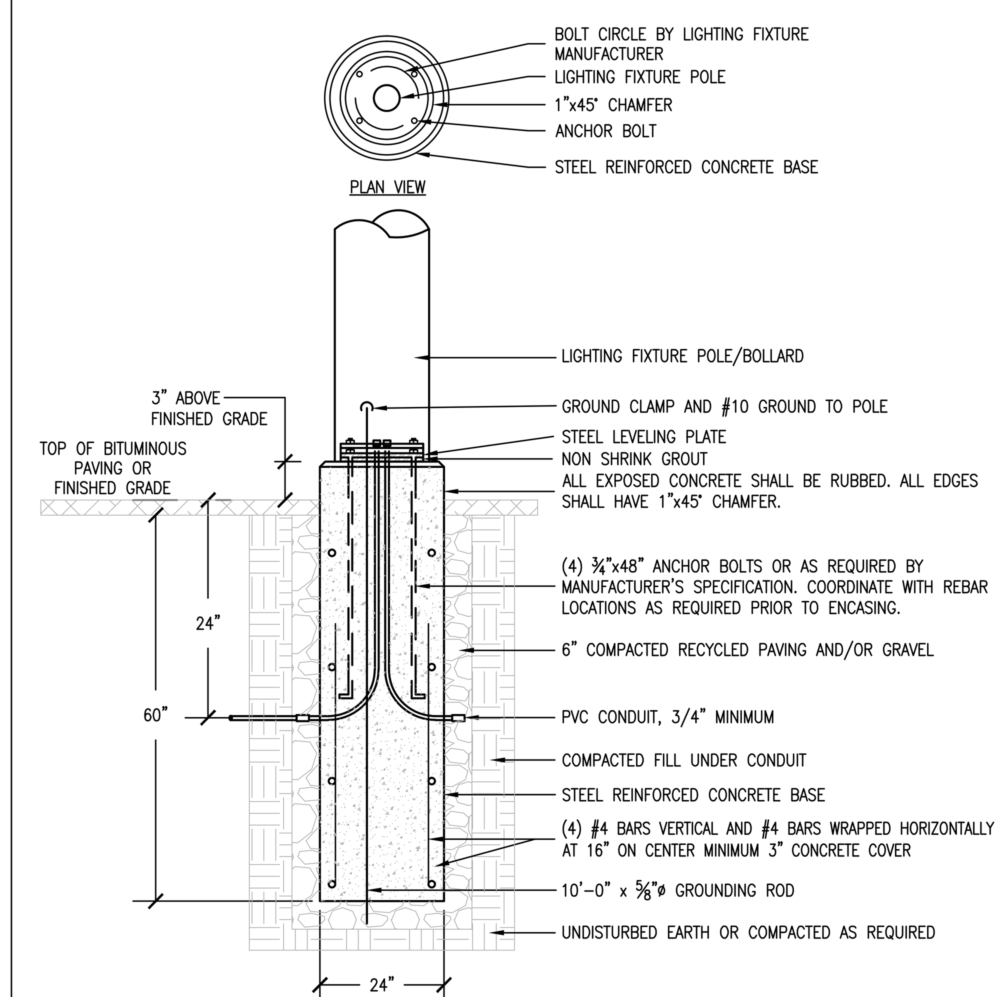
DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	N.T.S.
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	ES.03



NOTES:

1. ALL SITE LIGHTING POLES SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
2. ALL TRENCHING, STEEL REINFORCING, CONCRETE WORK, BACKFILLING, GRADING, AND RESURFACING SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

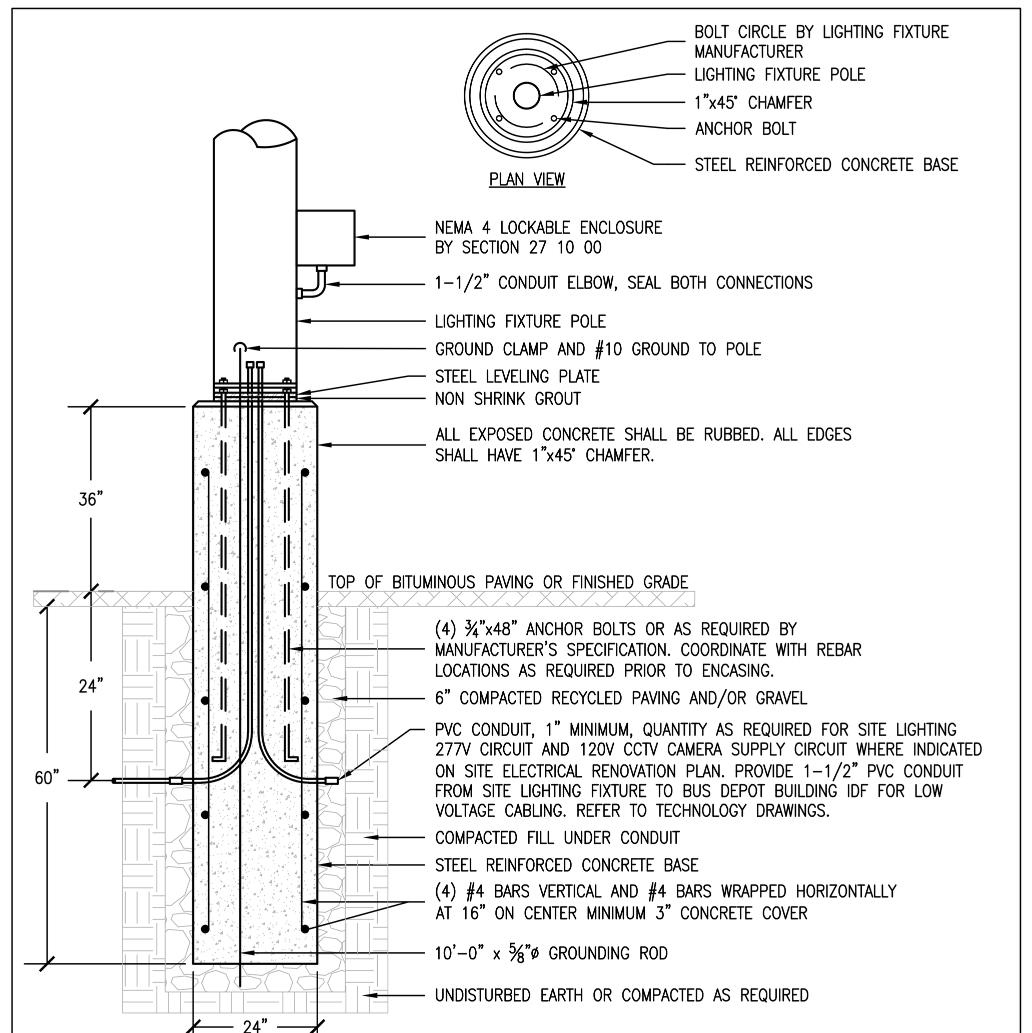
1	POLE BASE DETAIL FOR SITE LIGHTING FIXTURE - SL1, SL2, SL3 & SL4	SCALE: N.T.S.



NOTES:

1. ALL SITE LIGHTING POLES SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
2. ALL TRENCHING, STEEL REINFORCING, CONCRETE WORK, BACKFILLING, GRADING, AND RESURFACING SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

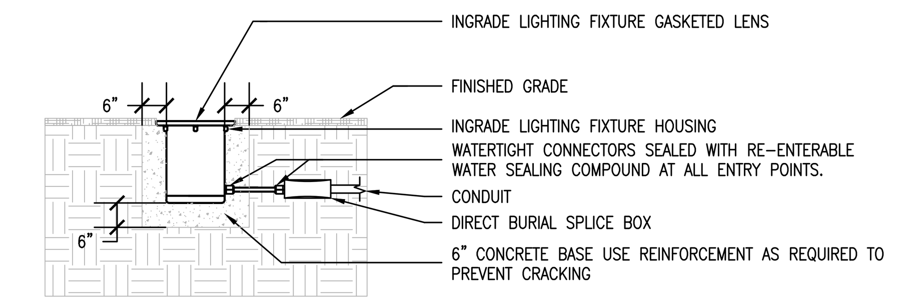
2	POLE BASE DETAIL FOR SITE LIGHTING FIXTURE - SL7	SCALE: N.T.S.



NOTES:

1. ALL SITE LIGHTING POLES SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
2. ALL TRENCHING, STEEL REINFORCING, CONCRETE WORK, BACKFILLING, GRADING, AND RESURFACING SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. PROVIDE THIS POLE BASE DETAIL FOR ALL SITE LIGHTING, UNLESS OTHERWISE NOTED.

3	POLE BASE DETAIL FOR SITE LIGHTING FIXTURES - SL1-C2 SL2-C & SL5-C2	SCALE: N.T.S.



INGRADE LIGHTING FIXTURE NOTES

1. ALL INGRADE LIGHTING FIXTURES SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
2. ALL TRENCHING, STEEL REINFORCING, CONCRETE WORK, BACKFILLING, GRADING, AND RESURFACING SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

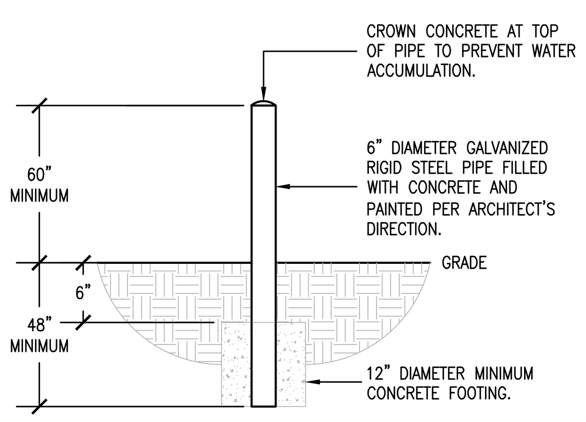
4	FLUSH MOUNTED INDGRADE DEATIL FOR LIGHTING FIXTURE - SL11	SCALE: N.T.S.

SITE LIGHTING FIXTURE SCHEDULE

NOTES:

1. LIGHTING FIXTURES SHALL BE FURNISHED COMPLETE WITH ALL HARDWARE, LAMPS, HANGERS, ACCESSORIES, ETC. FOR A COMPLETE AND PROPER INSTALLATION.
2. THE MANUFACTURER'S AND CATALOG NUMBERS IDENTIFIED IN THIS LIGHTING FIXTURE SCHEDULE ARE INTENDED TO ESTABLISH A GENERAL LEVEL OF QUALITY, CONFIGURATION, MATERIALS, AND APPEARANCE REQUIRED. THIS IS NOT A PROPRIETARY SPECIFICATION AND IT SHOULD BE NOTED THAT "OR EQUAL" APPLIES TO ALL LIGHTING FIXTURES DENOTED HEREIN. IT IS UNDERSTOOD THAT ALL MANUFACTURER'S WILL HAVE MINOR VARIATIONS IN ONFIGURATION, APPEARANCE, AND PRODUCT SPECIFICATIONS AND SUCH MINOR VARIATIONS SHALL NOT ELIMINATE SUCH MANUFACTURER'S AS AN APPROVED EQUAL.
3. LIGHTING FIXTURES SHALL CONFORM TO THE REQUIREMENTS OF THE ELECTRIC UTILITY CO. REBATE PROGRAM, WHERE APPLICABLE.
4. MOUNTING ABBREVIATIONS, "RW" = RECESSED IN WALL, "S/W" = SURFACE/WALL, "P" = POLE, "G" = GROUND, PT = POST TOP.
5. REFER TO TECHNOLOGY DRAWINGS. COORDINATE EXACT MOUNTING LOCATION AND ORIENTATION OF ALL CAMERAS AND ASSOCIATED MOUNTING ARMS WITH ARCHITECT/ ENGINEER PRIOR TO INSTALLATION.
6. POLE LENGTH SHALL BE AS REQUIRED SO THAT BOTTOM OF LIGHTING FIXTURE IS AT 30' ABOVE FINISHED GRADE, TAKING INTO ACCOUNT LIGHTING FIXTURE, ARM, POLE, POLE BASE, AND CONCRETE POLE BASE. PROVIDE ELEVATION INCLUDING ALL DIMENSIONS DURING SUBMITTAL PHASE FOR REVIEW.
7. POLE LENGTH SHALL BE AS REQUIRED SO THAT BOTTOM OF LIGHTING FIXTURE IS AT 12' ABOVE FINISHED GRADE, TAKING INTO ACCOUNT LIGHTING FIXTURE, ARM, POLE, POLE BASE, AND CONCRETE POLE BASE. PROVIDE ELEVATION INCLUDING ALL DIMENSIONS DURING SUBMITTAL PHASE FOR REVIEW.

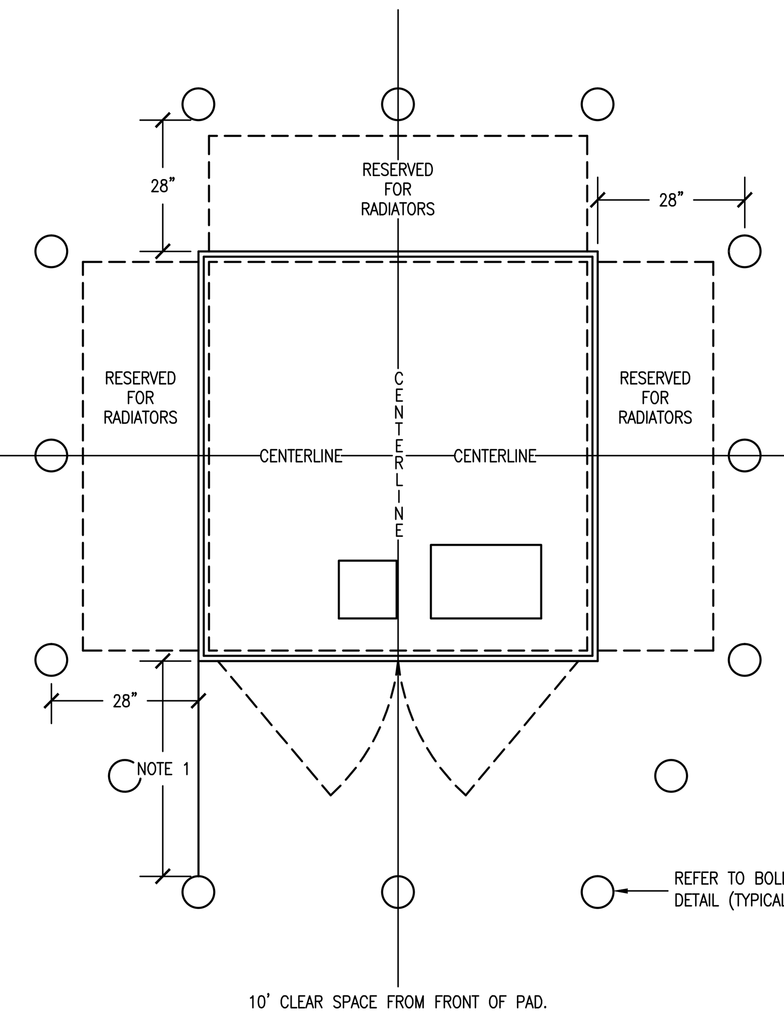
TYPE	MFG	CATALOG NUMBER	VOLT	MTG	LAMPS WATT	LAMPS TYPE	DISTR. TYPE	BUG RATING	DESCRIPTION/REMARKS	APPROVED ALTERNATES
SL1	STERNBERG	ML740-CA-120BL-45 -T3RBL-MD_05	277	P	209	LED	T3RBL	B1 U0 G2	SINGLE HEAD, 4500K COLOR TEMP, FULL CUTOFF SITE LIGHTING FIXTURE ON 30'-0", 6" SQUARE STEEL POLE. COLOR/FINISH BY ARCHITECT. NOTE 6.	– –
SL1-C2	STERNBERG	ML740-CA-120BL-45 -T3RBL-MD_05	277	P	209	LED	T3RBL	B1 U0 G2	SINGLE HEAD, 4500K COLOR TEMP, FULL CUTOFF, WITH 2 CAMERAS ON ARMS, SITE LIGHTING FIXTURE ON 30'-0", 6" SQUARE STEEL POLE. COLOR/FINISH BY ARCHITECT. NOTE 6.	– –
SL2	STERNBERG	ML740-CA-120BL-45 -T4BL-MD_05	277	P	209	LED	T4BL	B2 U0 G2	SINGLE HEAD, 4500K COLOR TEMP, FULL CUTOFF SITE LIGHTING FIXTURE ON 30'-0", 6" SQUARE STEEL POLE. COLOR/FINISH BY ARCHITECT. NOTE 6.	– –
SL2-C2	STERNBERG	ML740-CA-120BL-45 -T4BL-MD_05	277	P	209	LED	T4BL	B2 U0 G2	SINGLE HEAD, 4500K COLOR TEMP, FULL CUTOFF, WITH 2 CAMERAS ON ARMS, SITE LIGHTING FIXTURE ON 30'-0", 6" SQUARE STEEL POLE. COLOR/FINISH BY ARCHITECT. NOTE 6.	– –
SL3	STERNBERG	ML740-CA-120BL-45 -T3RBL-MD_05	277	P	418	LED	T3RBL	B1 U0 G2	DUAL HEAD (BACK TO BACK), 4500K COLOR TEMP, FULL CUTOFF SITE LIGHTING FIXTURE ON 30'-0", 6" SQUARE STEEL POLE. COLOR/FINISH BY ARCHITECT. NOTE 6.	– –
SL4	STERNBERG	ML740-CA-120BL-45 -T4BL-MD_05	277	P	418	LED	T4BL	B2 U0 G2	DUAL HEAD (BACK TO BACK), 4500K COLOR TEMP, FULL CUTOFF SITE LIGHTING FIXTURE ON 30'-0", 6" SQUARE STEEL POLE. COLOR/FINISH BY ARCHITECT. NOTE 6.	– –
SL5-C2	STERNBERG	ML740-CA-120BL-45 -T4BL-MD_05	277	P	418	LED	T4BL	B2 U0 G2	DUAL HEAD (2@90°), 4500K COLOR TEMP, FULL CUTOFF, WITH 2 CAMERAS ON ARMS SITE LIGHTING FIXTURE ON 30'-0", 6" SQUARE STEEL POLE. COLOR/FINISH BY ARCHITECT. NOTE 6.	– –
SL6	US ARCHITECTURAL	RZR-WM3-PLEDII-60LED-700mA-NW -277	277	S/W	131	LED	TYPE 2	B2 U0 G2	23" WIDE EXTERIOR WALL SCONCE, 4000K COLOR TEMP, COLOR/FINISH BY ARCHITECT.	– –
SL7	STERNBERG	PT-ML660-CA-60L-45 -T5-MD_05	277	PT	105	LED	T5	B3 U1 G1	SINGLE HEAD, 4500K COLOR TEMP, FULL CUTOFF POST TOP SITE LIGHTING FIXTURE ON 12'-0", 4" SQUARE STEEL POLE. COLOR/FINISH BY ARCHITECT. NOTE 7.	– –
SL8	I2 SYSTEMS	V2355A-3-8-BBD-OUTDOOR-E10PW-VLA13	277	S/W	42	LED	TYPE 2	B2 U0 G0	3' EXTERIOR, 4000K COLOR TEMP FULL CUTOFF, ALUMINUM BODY, 14W/FT, 82° BEAM ANGLE WITH POWER BOX AND ADJUSTABLE BRACKET, OVER DOOR BUILDING LIGHTING FIXTURE. FINISH/COLOR BY ARCHITECT.	– –
SL9	BEGA	222203LEDK4	277	R	2.2	LED	–	B0 U0 G0	3-1/8"x3-1/8" SQUARE, DIE CAST ALUMINUM, RECESSED IN WALL, SHIELDED LIGHTING FIXTURE, 4000K COLOR TEMP, REMOTE 24V DRIVER, COLOR/FINISH BY ARCHITECT.	– –
SL10	STERNBERG	PT-RT403-CA-26L -45-T5-MD_05	277	GATE POST TOP	49	LED	T5	B1 U1 G1	3'x8" CYLINDRICAL, THREE LEGGED, OPEN CAGE POST TOP LUMINAIRE, CAST ALUMINUM CAGE, ROUND ARRAY CONFIGURATION OF LEDS, LENSED, 4500K COLOR TEMP, COLOR/FINISH BY ARCHITECT.	– –
SL11	TARGETTI	KPL-10-ZM-L2-40	277	G	36	LED	–	EXEMPT	IN-GROUND FLAG POLE LIGHTING FIXTURE, 4000K COLOR TEMP, FINISH/COLOR BY ARCHITECT.	– –



BOLLARD CONSTRUCTION

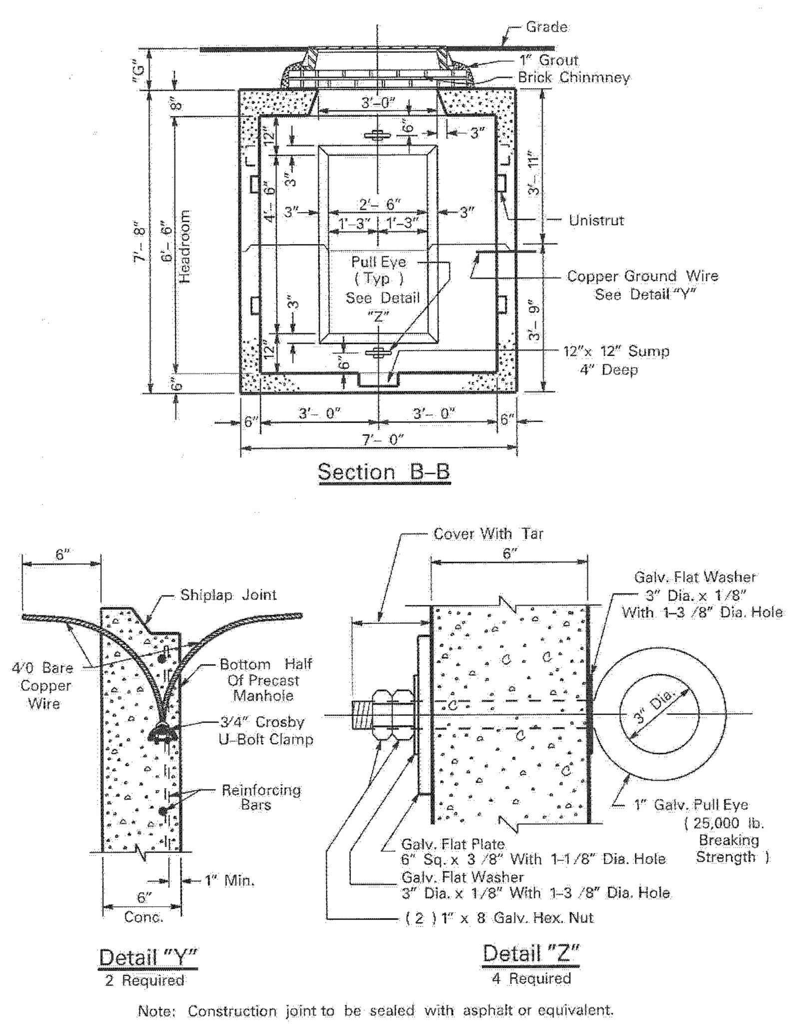
BOLLARD PLACEMENT NOTES

1. 6'-0" MINIMUM CLEARANCE FROM FRONT OF PAD.
2. DISTRIBUTION DESIGN/PLANNING SHALL DESIGNATE THE NUMBER AND LOCATION OF BOLLARDS BY MARKING THE BOLLARDS OF THIS DRAWING AS FOLLOWS:
3. BOLLARDS SHALL BE SUPPORTED BY A 12" MINIMUM DIAMETER CONCRETE FOOTING 6" BELOW GRADE TO BASE OF BOLLARD.
4. FOR INSTALLATIONS AROUND OIL CONTAINMENT CURBS, INSTALL BOLLARDS 6'-0" MINIMUM ON ALL APPLICABLE SIDES.
5. THE NUMBER, TYPE (GALVANIZED OR STEEL) AND LOCATIONS OF BOLLARDS SHALL BE DETERMINED BY DISTRIBUTION DESIGN/PLANNING, TAKING INTO ACCOUNT PROXIMITY TO TRAFFIC AND TO BUILDINGS AS WELL AS OTHER BARRIERS TO TRAFFIC. OTHER FACTORS SUCH AS SALT SPRAY AND FERTILIZERS MAY IMPACT TYPE OF BOLLARD REQUIRED. SUGGESTED BOLLARD LOCATIONS AND DIMENSIONS ARE SHOWN. THE LOCATION OF BOLLARDS SHALL NOT IMPEDE A DOOR OPENING OF 100 DEGREES.
6. BOLLARDS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR INCLUDING ALL TRENCHING, REINFORCING, CONCRETE WORK, BACKFILLING, GRADING, AND RESURFACING.

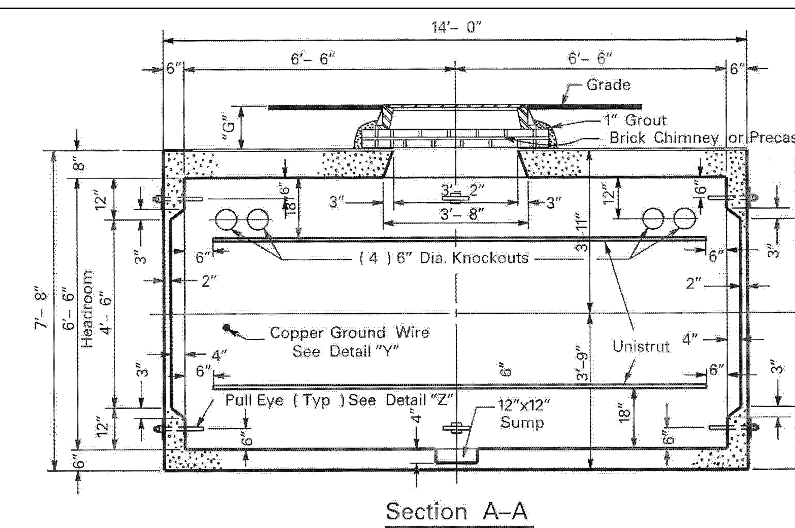


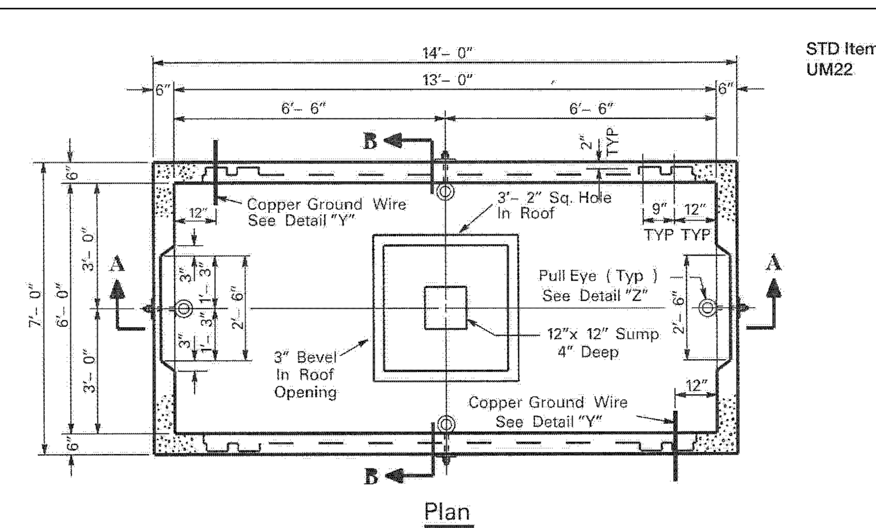
BOLLARD PLACEMENT

5	BOLLARD CONSTRUCTION AND PLACEMENT	SCALE: N.T.S.



6	NATIONAL GRID MANHOLE FRAME RING AND COVER DETAIL	SCALE: N.T.S.

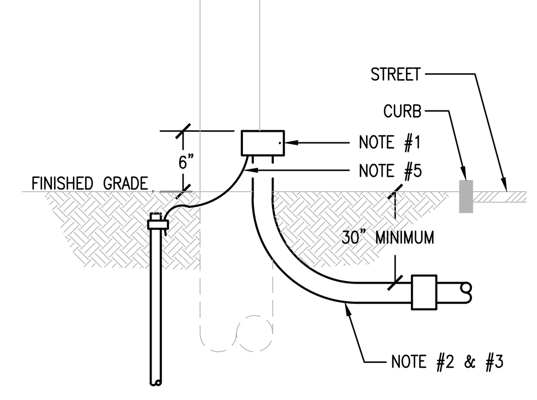




7	NATIONAL GRID MANHOLE DETAIL	SCALE: N.T.S.

NOTES:

1. TELEPHONE, CATV, AND SPARE CONDUITS 6" ABOVE FINISHED GRADE.
2. GALVANIZED STEEL CONDUIT AND BEND ARE TO USED. THE BEND SHALL BE CORROSION RESISTANT.
3. GALVANIZED STEEL CONDUIT, GALVANIZED STEEL SWEEP, ATTACHMENT CLAMPS AND GROUNDING CLAMP. THE ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH SERVICE PROVIDER PRIOR TO INSTALLATION.
4. THE CONDUIT BURIAL DEPTH SHALL BE 30" MINIMUM.
5. PROVIDE GROUNDING PER SERVICE PROVIDER REQUIREMENTS.
6. ALL TRENCHING, CONCRETE WORK, BACKFILLING, GRADING, AND RESURFACING SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.



8	LOW VOLTAGE RISER POLE INSTALLATION DETAIL	SCALE: N.T.S.

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BEVERLY MIDDLE SCHOOL

CABOT STREET
BEVERLY, MA 01915

GENERAL NOTE LEGEND:

90% CONSTRUCTION DOCUMENTS

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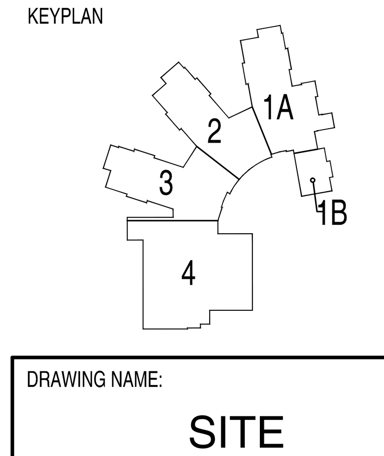
NORTH ARROW

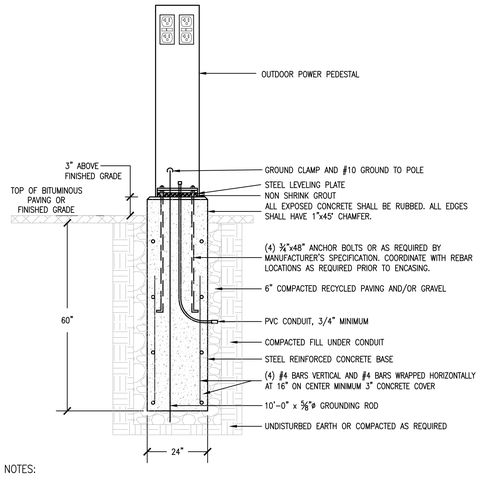
KEYPLAN



DRAWING NAME:

SITE DETAILS ELECTRICAL

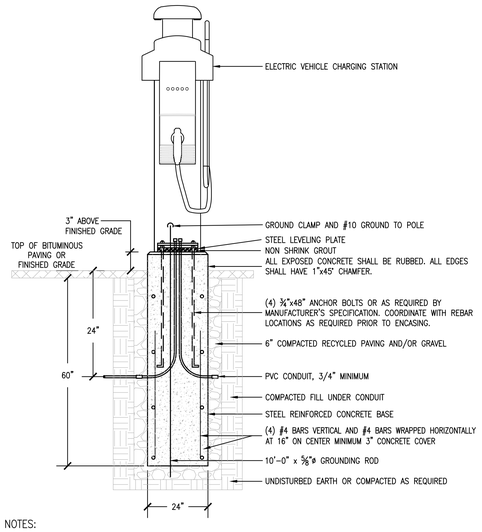
DRAWN BY: JGM
REVIEWED BY: RCB
SCALE: N.T.S.
JOB NO.: 1403.00
DATE: July 25, 2016
DRAWING NUMBER: ES.04



NOTES:

1. PEDESTAL SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
2. ALL TRENCHING, STEEL REINFORCING, CONCRETE WORK, BACKFILLING, GRADING, AND RESURFACING SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

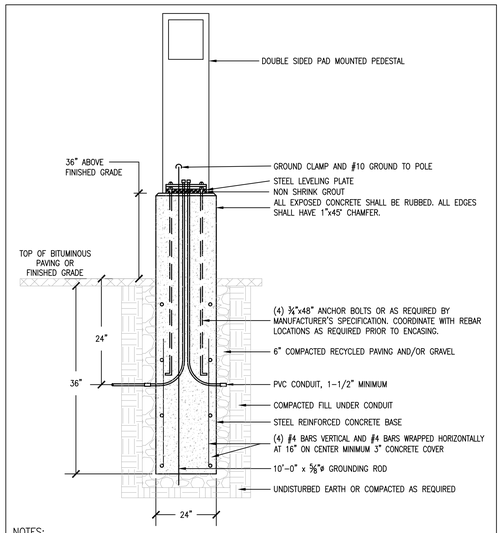
1	PAD MOUNTED PEDESTAL DETAIL	SCALE: N.T.S.



NOTES:

1. ALL ELECTRIC VEHICLE CHARGING STATIONS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
2. ALL TRENCHING, STEEL REINFORCING, CONCRETE WORK, BACKFILLING, GRADING, AND RESURFACING SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

2	ELECTRIC VEHICLE CHARGING STATION DETAIL	SCALE: N.T.S.



NOTES:

1. PEDESTAL SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
2. ALL TRENCHING, STEEL REINFORCING, CONCRETE WORK, BACKFILLING, GRADING, AND RESURFACING SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

3	PAD MOUNTED DOUBLE SIDED PEDESTAL DETAIL	SCALE: N.T.S.

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GENERAL NOTE LEGEND:

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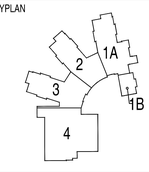
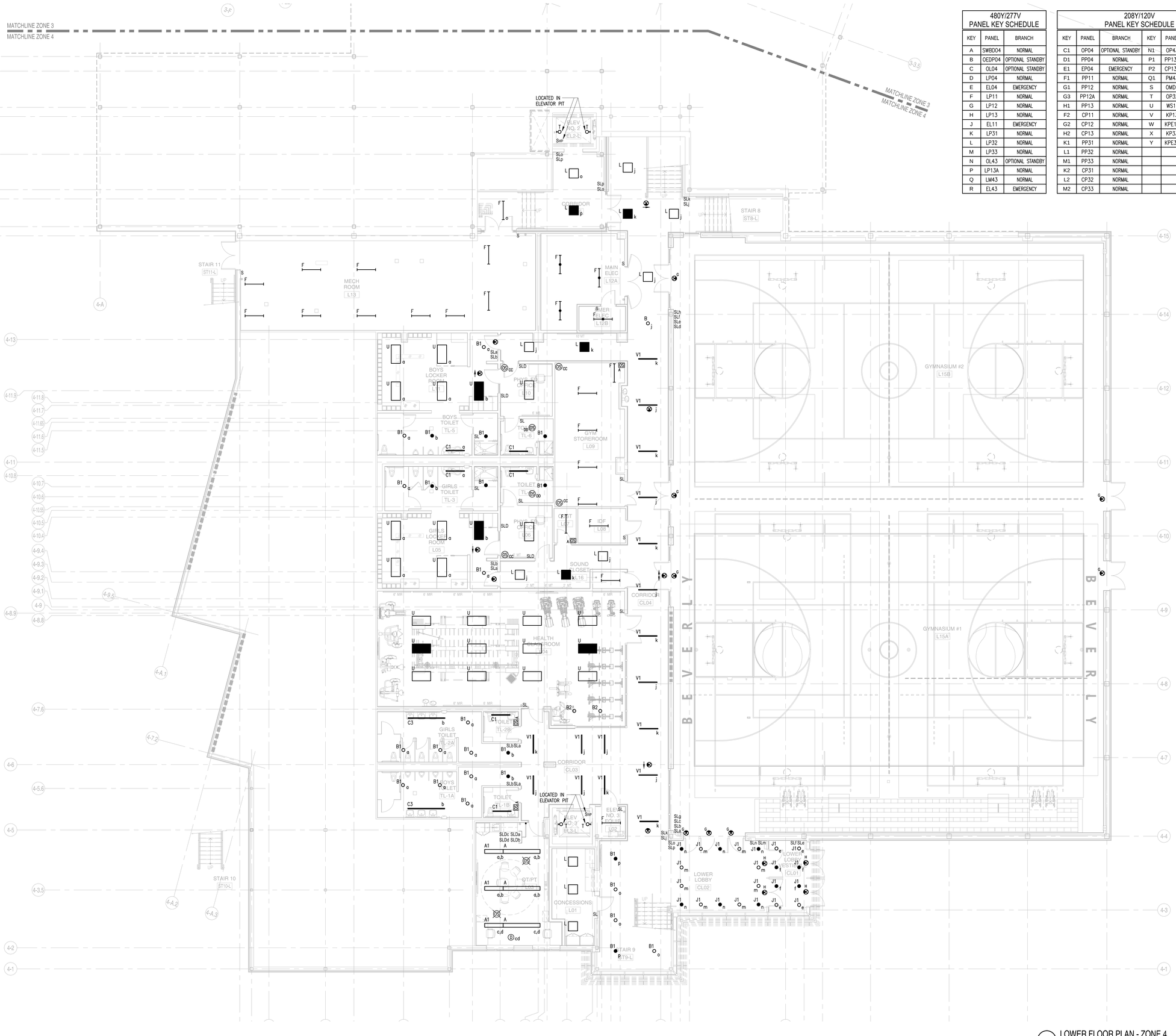
KEYPLAN



DRAWING NAME:

SITE DETAILS ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	N.T.S.
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	ES.05



1 LOWER FLOOR PLAN - ZONE 4
1/8"=1'-0"

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			

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KEYNOTE LEGEND:

1. ALL EXIT SIGNS SHALL BE WIRED TO D,11.

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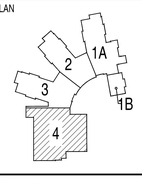
NORTH ARROW

KEYPLAN



DRAWING NAME:

LOWER LEVEL LIGHTING PLAN ZONE 4 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: As Noted	DRAWING NUMBER:
JOB NO.: 1403.00	E1.04
DATE: July 25, 2016	

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			

1 FIRST FLOOR PLAN - ZONE 1B
1/8"=1'-0"

1 FIRST FLOOR PLAN - ZONE 1A
1/8"=1'-0"

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GENERAL NOTES/LEGEND:

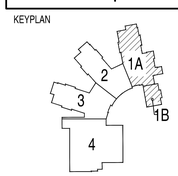
1. ALL EXIT SIGNS SHALL BE WIRED TO _____.

90% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

NORTH ARROW

KEYPLAN



DRAWING NAME:

FIRST FLOOR LIGHTING PLAN ZONES 1A & 1B ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	As Noted
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	E1.11

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			

1 FIRST FLOOR PLAN - ZONE 2
1/8"=1'-0"

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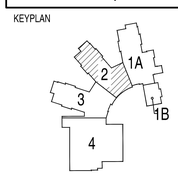

DRAWING NAME:

FIRST FLOOR LIGHTING PLAN ZONE 2 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	As Noted
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	E1.12

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			

1 FIRST FLOOR PLAN - ZONE 3
1/8"=1'-0"

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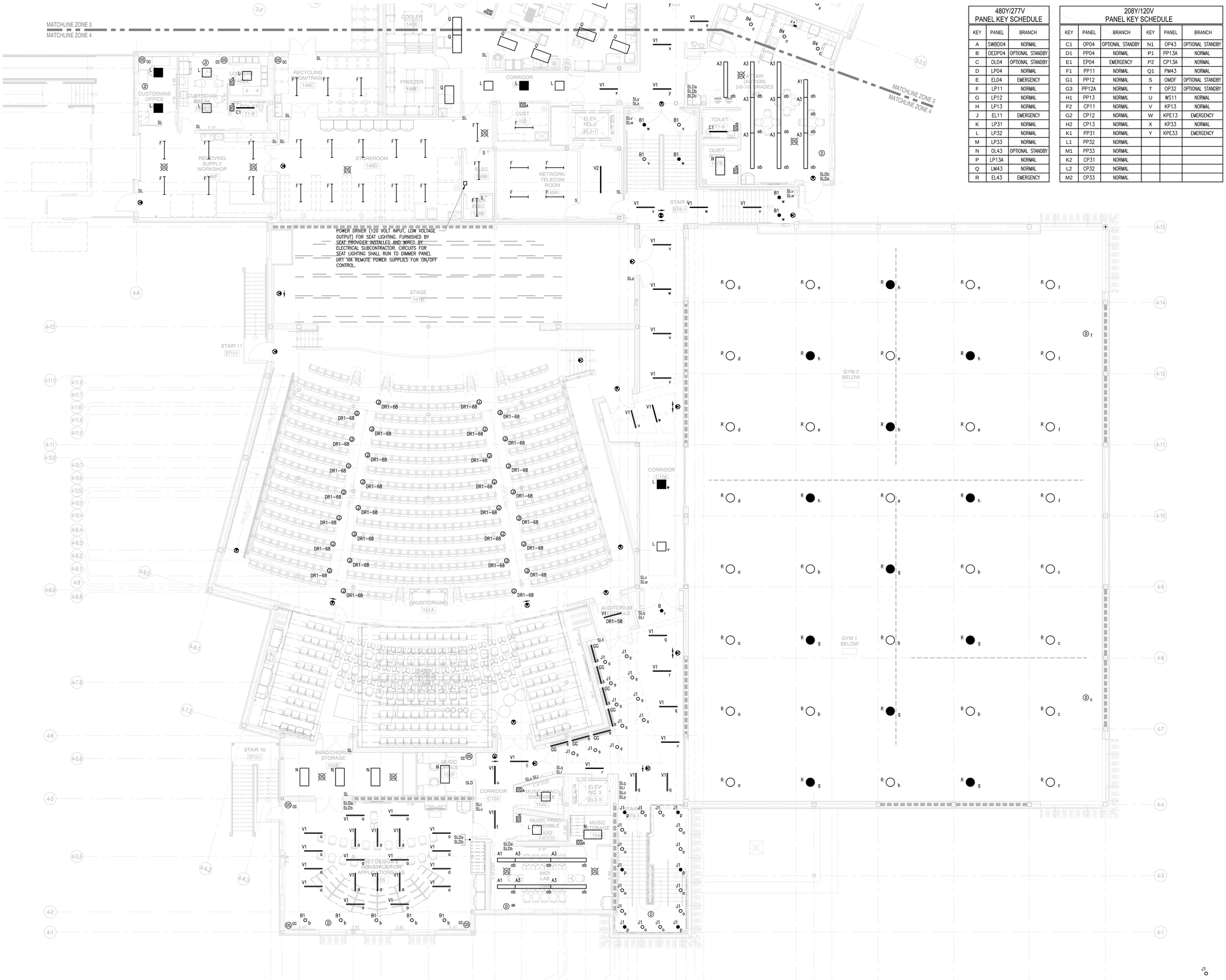
DRAWING NAME:

FIRST FLOOR LIGHTING PLAN ZONE 3 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: As Noted	DRAWING NUMBER:
JOB NO.: 1403.00	E1.13
DATE: July 25, 2016	



1 FIRST FLOOR PLAN - ZONE 4
1/8" = 1'-0"

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			

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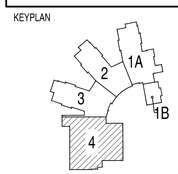


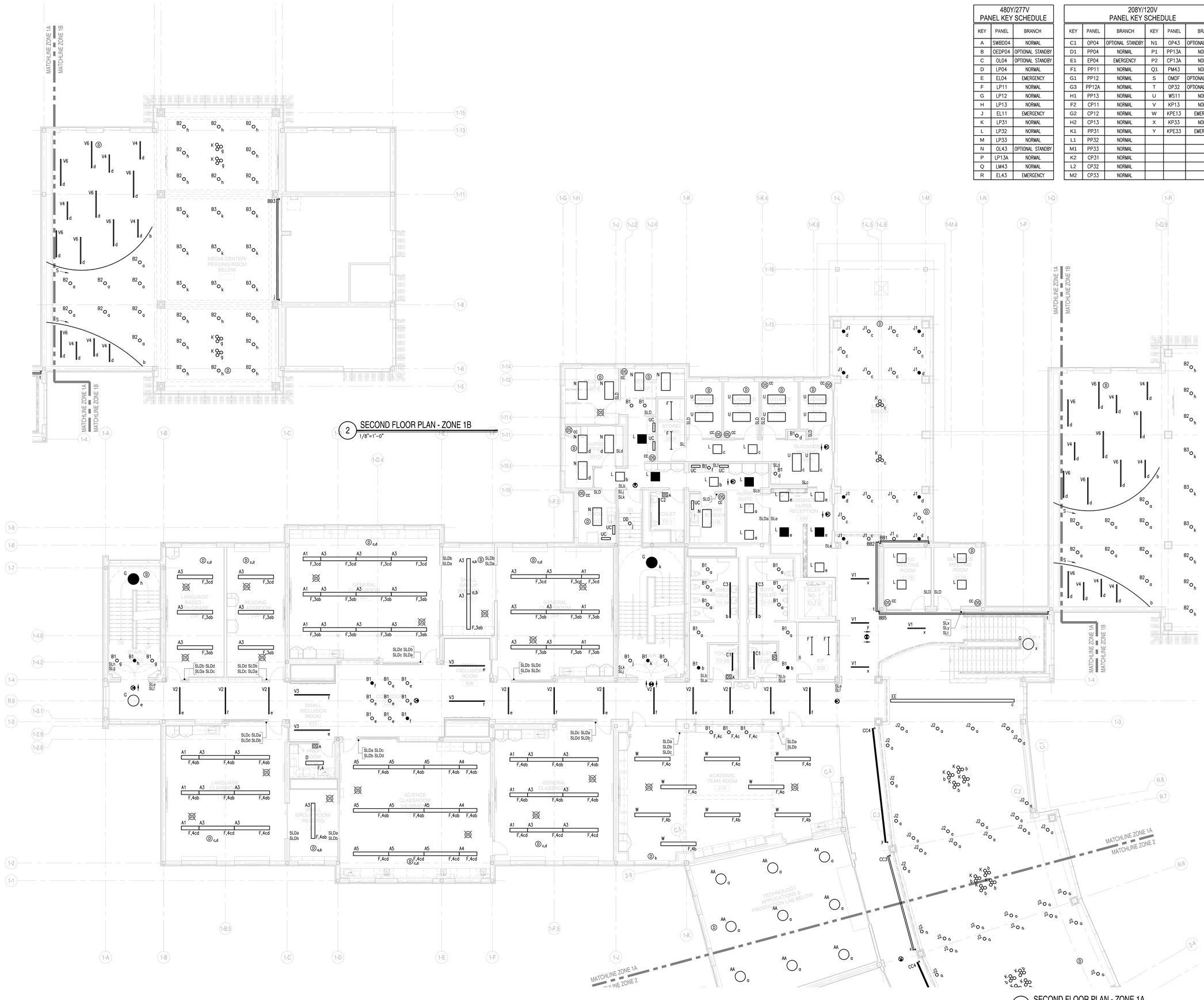
DRAWING NAME:

FIRST FLOOR LIGHTING PLAN ZONE 4 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	As Noted
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	E1.14

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			



2 SECOND FLOOR PLAN - ZONE 1B
1/8"=1'-0"

1 SECOND FLOOR PLAN - ZONE 1A
1/8"=1'-0"

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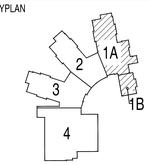

DRAWING NAME:

SECOND FLOOR LIGHTING PLAN ZONES 1A & 1B ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: As Noted	DRAWING NUMBER:
JOB NO.: 1403.00	E1.21
DATE: July 25, 2016	

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			

1 SECOND FLOOR PLAN - ZONE 2
1/8"=1'-0"

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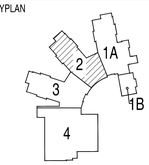

DRAWING NAME:

SECOND FLOOR LIGHTING PLAN ZONE 2 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: As Noted	DRAWING NUMBER:
JOB NO.: 1403.00	E1.22
DATE: July 25, 2016	

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			

1 SECOND FLOOR PLAN - ZONE 3
1/8"=1'-0"

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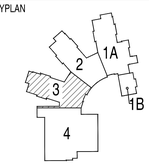
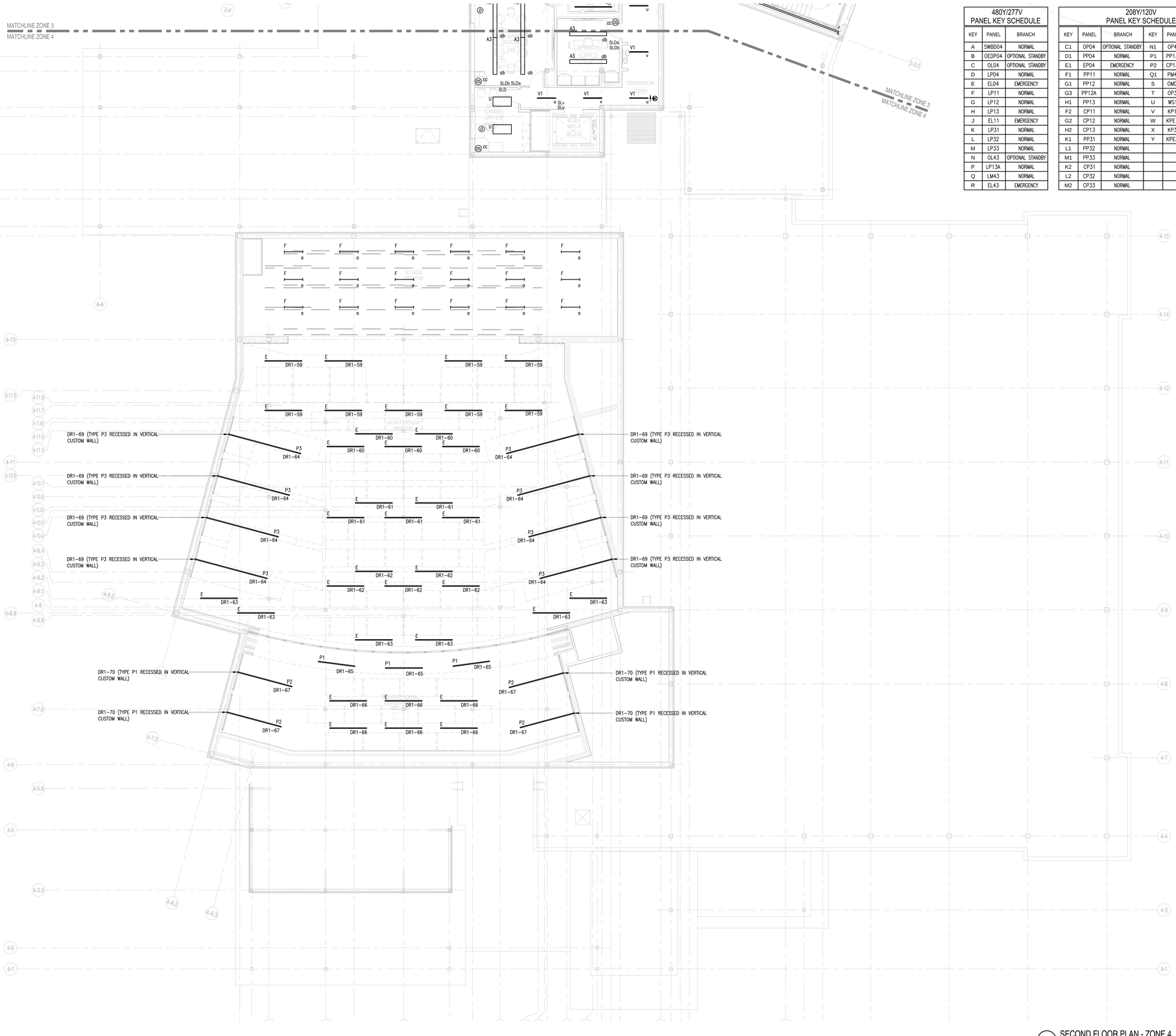


DRAWING NAME:

SECOND FLOOR LIGHTING PLAN ZONE 3 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	As Noted
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	E1.23



480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			

1 SECOND FLOOR PLAN - ZONE 4
1/8"=1'-0"

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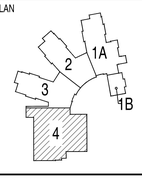

DRAWING NAME:

SECOND FLOOR LIGHTING PLAN ZONE 4 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	As Noted
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	E1.24

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			

1 THIRD FLOOR PLAN - ZONE 1A
1/8"=1'-0"

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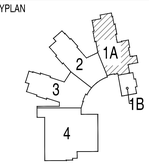

DRAWING NAME:

THIRD FLOOR LIGHTING PLAN ZONE 1A ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	As Noted
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	E1.31

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			

1 THIRD FLOOR PLAN - ZONE 2
1/8"=1'-0"

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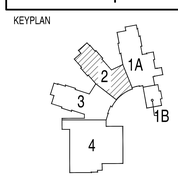
NORTH ARROW

KEYPLAN



DRAWING NAME:

THIRD FLOOR LIGHTING PLAN ZONE 2 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: As Noted	DRAWING NUMBER:
JOB NO.: 1403.00	E1.32
DATE: July 25, 2016	

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			

1 THIRD FLOOR PLAN - ZONE 3
1/8"=1'-0"

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KEYNOTE LEGEND:

1. ALL EXIT SIGNS SHALL BE WIRED TO _____.

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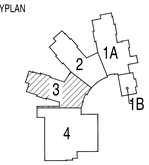
NORTH ARROW

KEYPLAN



DRAWING NAME:

THIRD FLOOR LIGHTING PLAN ZONE 3 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: As Noted	DRAWING NUMBER:
JOB NO.: 1403.00	E1.33
DATE: July 25, 2016	

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			

1 FOURTH FLOOR PLAN - ZONE 1A
1/8"=1'-0"

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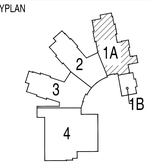
KEYPLAN



DRAWING NAME:

FOURTH FLOOR LIGHTING PLAN ZONE 1A ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: As Noted	DRAWING NUMBER:
JOB NO.: 1403.00	E1.41
DATE: July 25, 2016	

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			

1 FOURTH FLOOR PLAN - ZONE 2
1/8"=1'-0"

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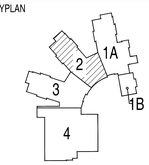
KEYPLAN



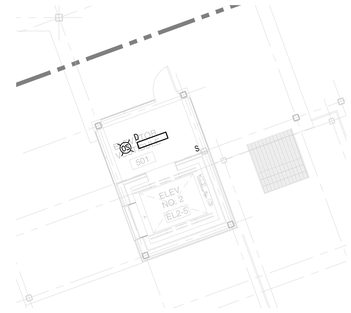
DRAWING NAME:

FOURTH FLOOR LIGHTING PLAN ZONE 2 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: As Noted	DRAWING NUMBER:
JOB NO.: 1403.00	E1.42
DATE: July 25, 2016	

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			



2 ELEVATOR PENTHOUSE LEVEL
1/8"=1'-0"

1 FOURTH FLOOR PLAN - ZONE 3
1/8"=1'-0"

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KEYNOTE LEGEND:

1. ALL EXIT SIGNS SHALL BE WIRED TO _____.

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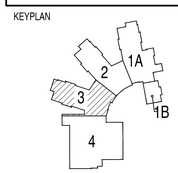
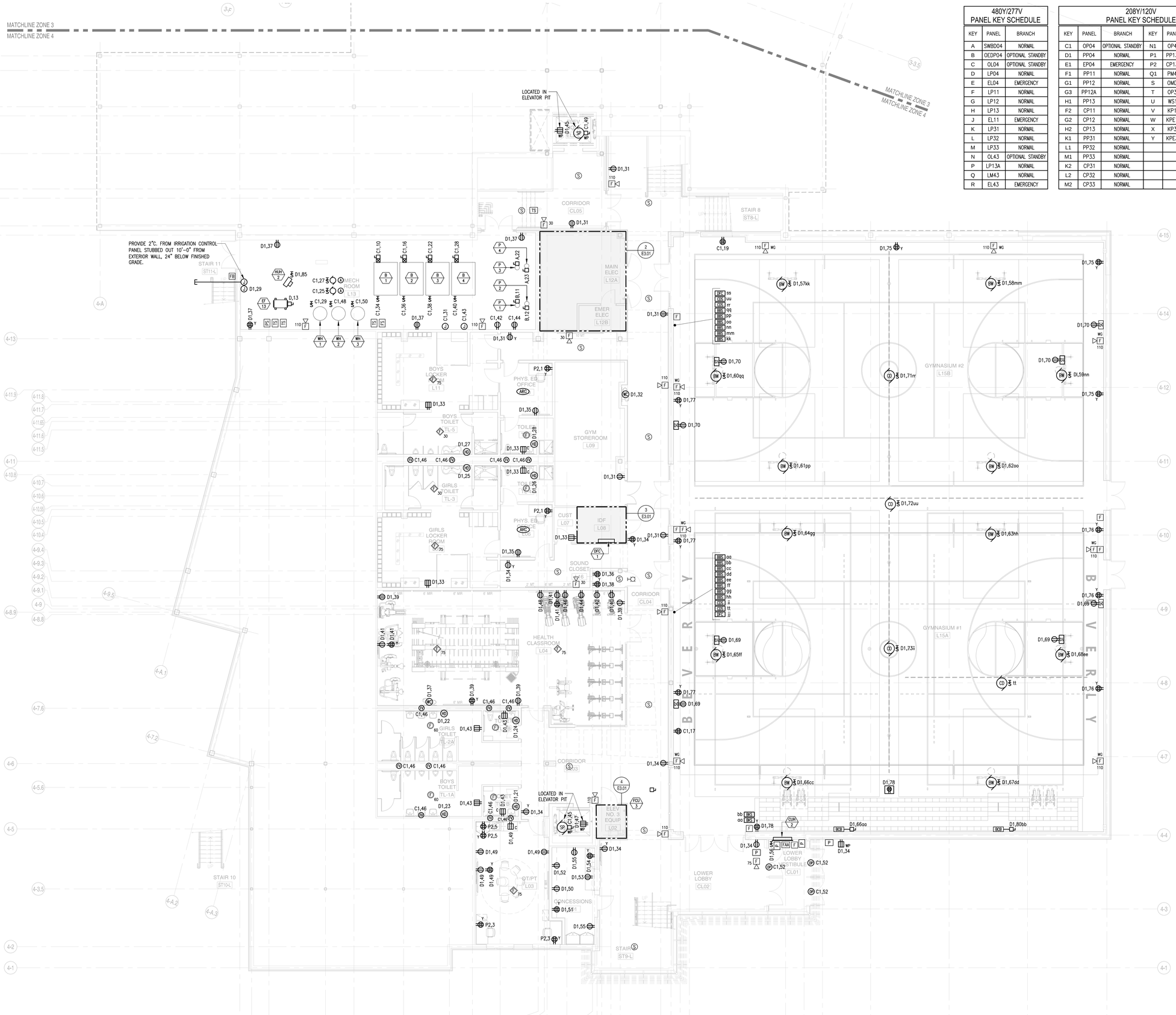
KEYPLAN



DRAWING NAME:

FOURTH FLOOR LIGHTING PLAN ZONE 3 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	As Noted
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	E1.43



480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			

1 LOWER FLOOR PLAN - ZONE 4
1/8"=1'-0"

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GENERAL NOTE LEGEND:

1. ELECTRICAL SUBCONTRACTOR SHALL WIRE ALL TERMINAL BOXES IN THIS AREA TO D1,30.

KEYNOTE LEGEND:

1 --

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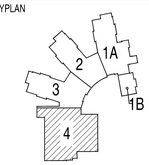
NORTH ARROW

KEYPLAN



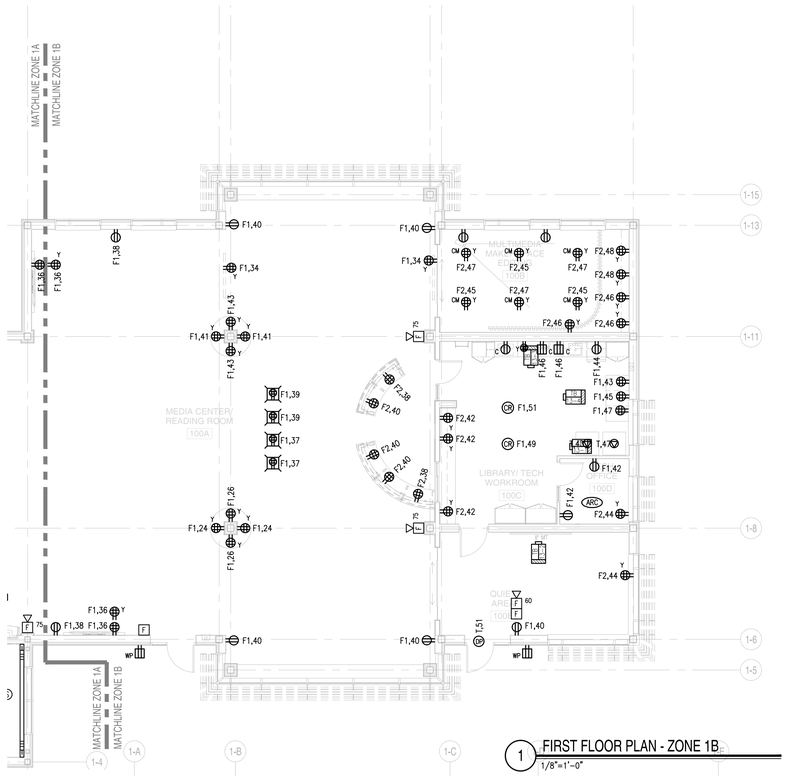
DRAWING NAME:

LOWER LEVEL POWER PLAN ZONE 4 ELECTRICAL

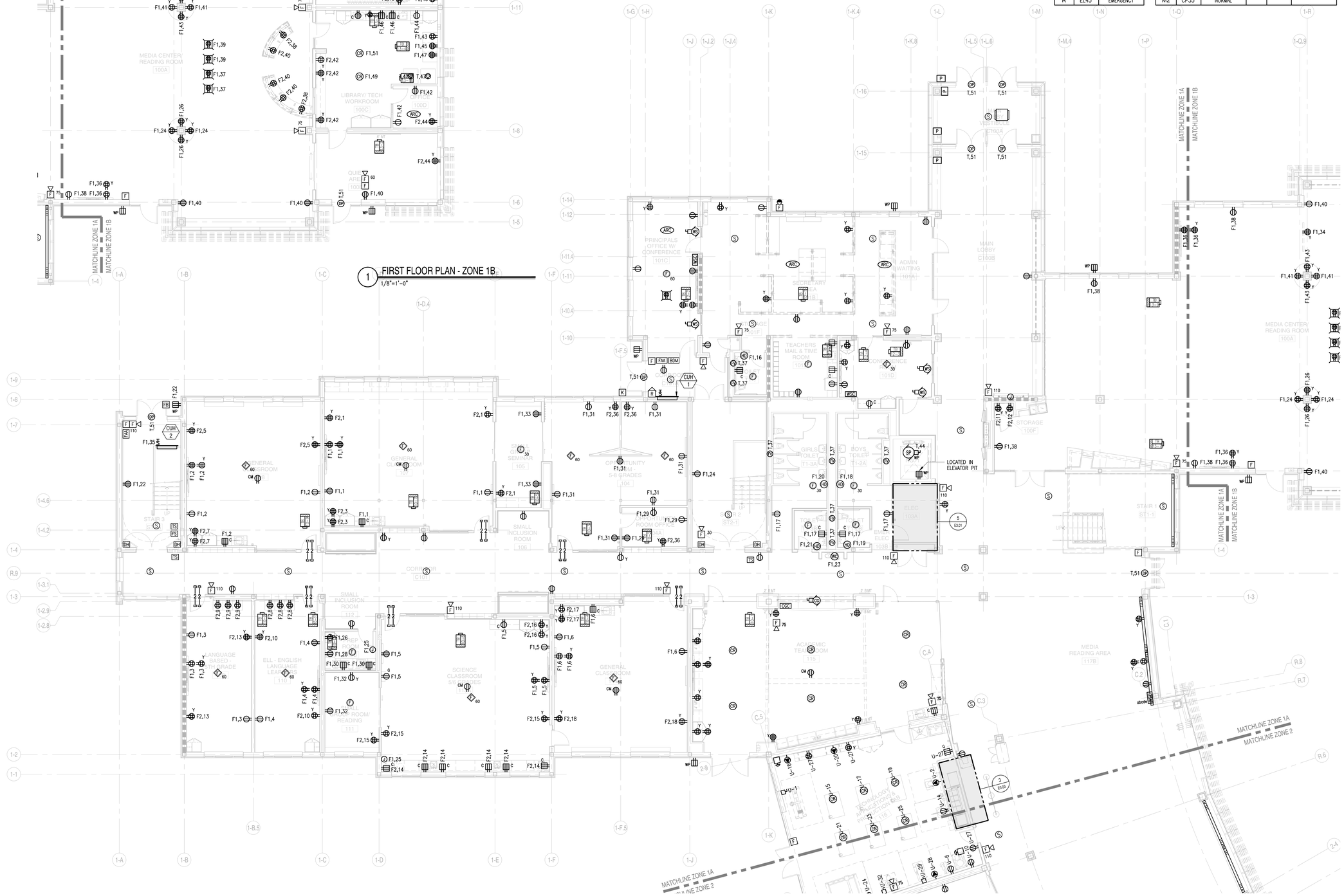
DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: As Noted	DRAWING NUMBER:
JOB NO.: 1403.00	E2.04
DATE: July 25, 2016	

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			



1 FIRST FLOOR PLAN - ZONE 1B
1/8"=1'-0"



1 FIRST FLOOR PLAN - ZONE 1A
1/8"=1'-0"

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KEYNOTE LEGEND:

1. ELECTRICAL SUBCONTRACTOR SHALL WIRE ALL TERMINAL BOXES IN THIS AREA TO F1,14.

KEYNOTE LEGEND:

1 ????

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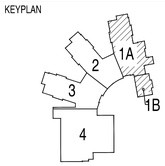
KEYPLAN



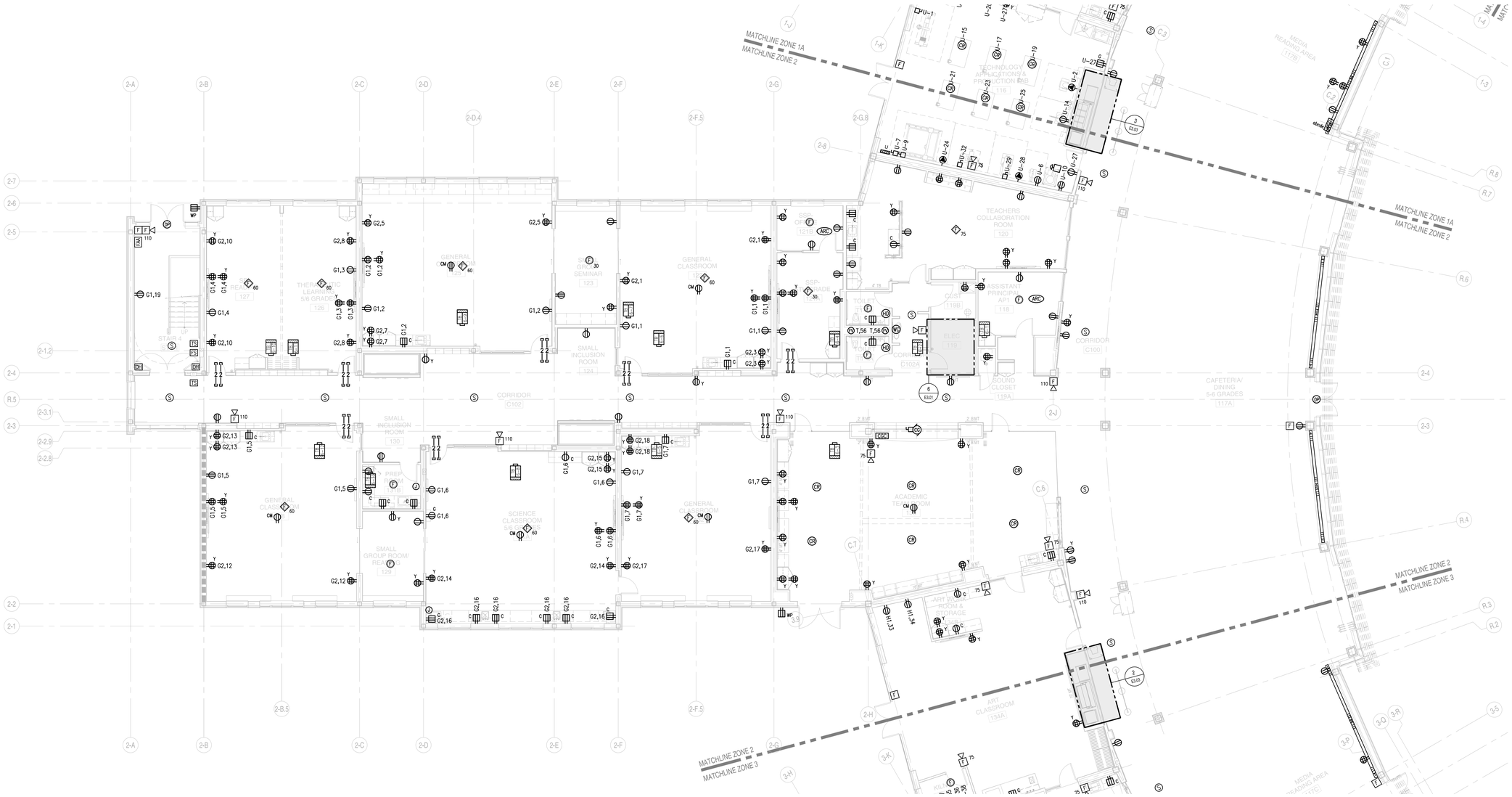
DRAWING NAME:

FIRST FLOOR POWER PLAN ZONES 1A & 1B ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: As Noted	DRAWING NUMBER:
JOB NO.: 1403.00	E2.11
DATE: July 25, 2016	

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			



1 FIRST FLOOR PLAN - ZONE 2
1/8"=1'-0"

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GENERAL NOTES LEGEND:

1. ELECTRICAL SUBCONTRACTOR SHALL WIRE ALL TERMINAL BOXES IN THIS AREA TO G1,17.

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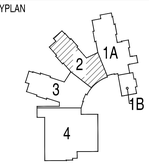
KEYPLAN

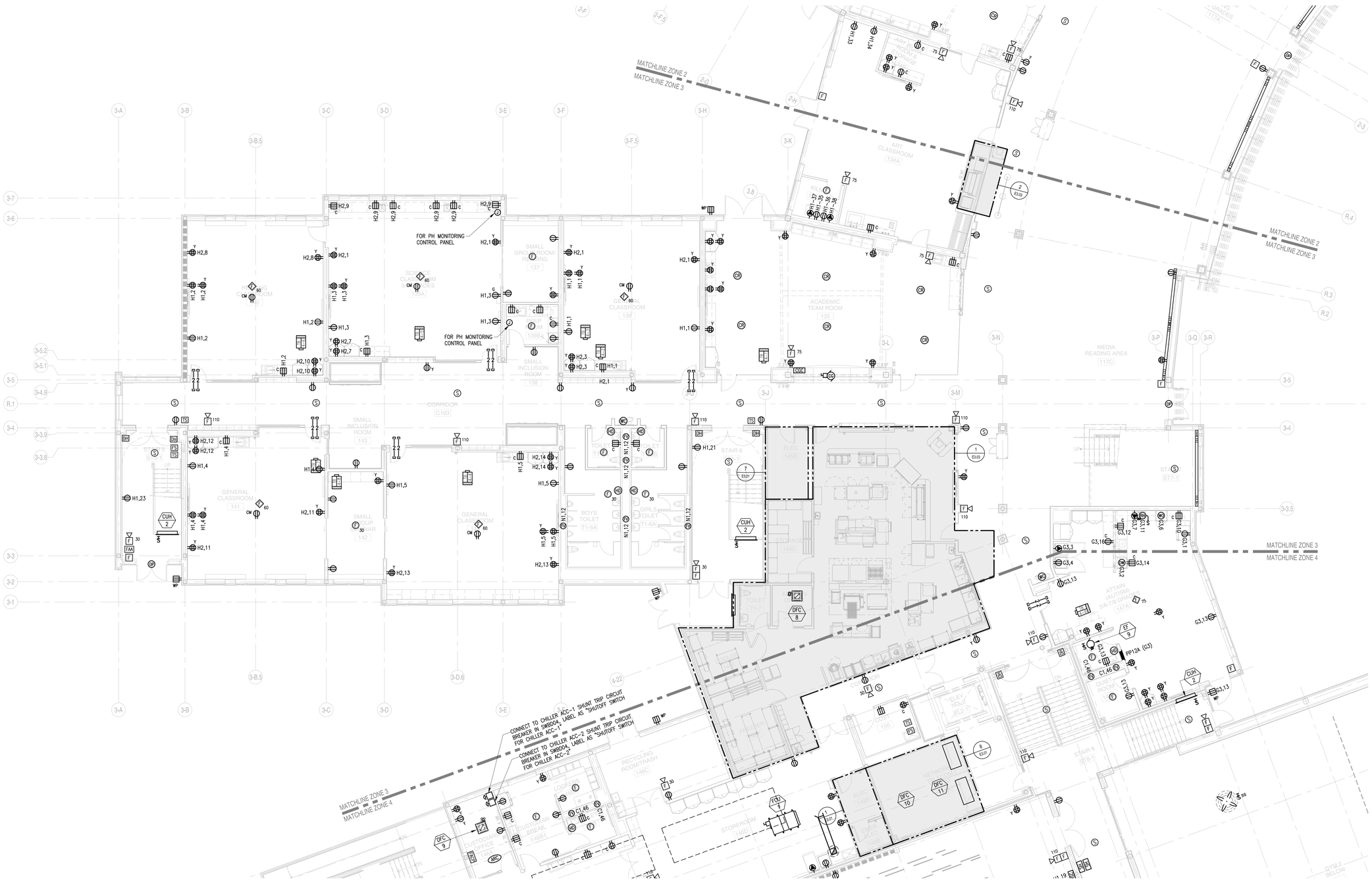


DRAWING NAME:
FIRST FLOOR POWER PLAN ZONE 2 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	As Noted
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	E2.12

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			



1 FIRST FLOOR PLAN - ZONE 3
1/8"=1'-0"

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BEVERLY MIDDLE SCHOOL

CABOT STREET
BEVERLY, MA 01915

GENERAL NOTES/LEGEND:

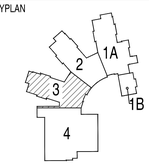
1. ELECTRICAL SUBCONTRACTOR SHALL WIRE ALL TERMINAL BOXES IN THIS AREA TO H1,12.

90% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

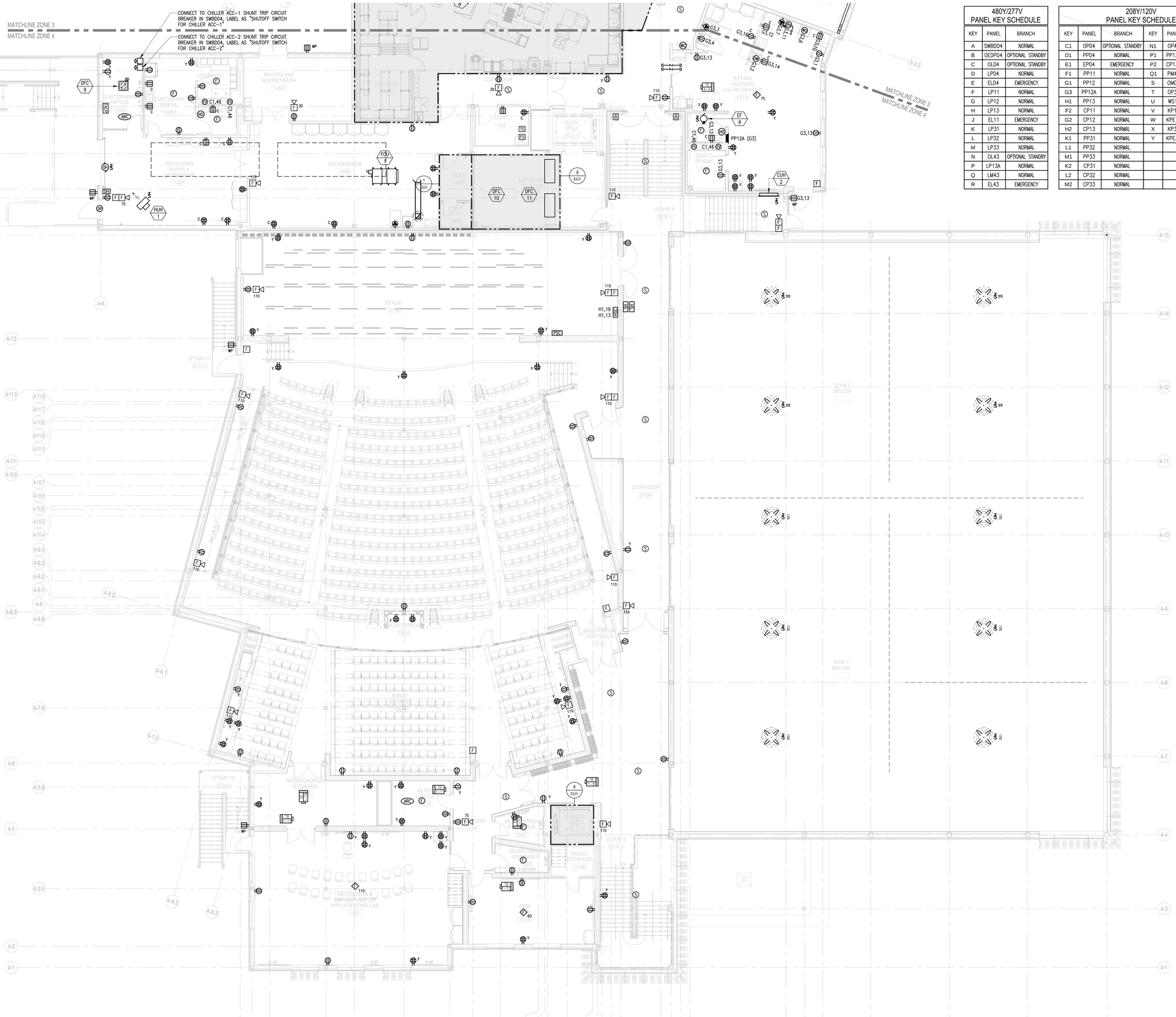
NORTH ARROW

KEYPLAN



DRAWING NAME:
FIRST FLOOR POWER PLAN ZONE 3 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: As Noted	DRAWING NUMBER:
JOB NO.: 1403.00	E2.13
DATE: July 25, 2016	



480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			

1 FIRST FLOOR PLAN - ZONE 4
1/8" = 1'-0"

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BEVERLY MIDDLE SCHOOL

CABOT STREET
BEVERLY, MA 01915

GENERAL NOTES LEGEND:

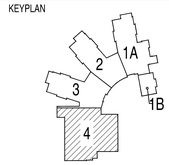
1. ELECTRICAL SUBCONTRACTOR SHALL WIRE ALL TERMINAL BOXES IN THIS AREA TO P1,1.

90% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

NORTH ARROW

KEYPLAN



DRAWING NAME:

FIRST FLOOR POWER PLAN ZONE 4 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	As Noted
JOB NO.:	1403.00
DATE:	July 25, 2016

DRAWING NUMBER: E2.14

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480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			

2 SECOND FLOOR PLAN - ZONE 1B
1/8"=1'-0"

1 SECOND FLOOR PLAN - ZONE 1A
1/8"=1'-0"

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BEVERLY MIDDLE SCHOOL

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GENERAL NOTE LEGEND:

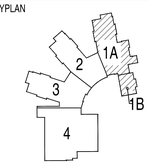
1. ELECTRICAL SUBCONTRACTOR SHALL WIRE ALL TERMINAL BOXES IN THIS AREA TO F1,15.

90% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

NORTH ARROW

KEYPLAN



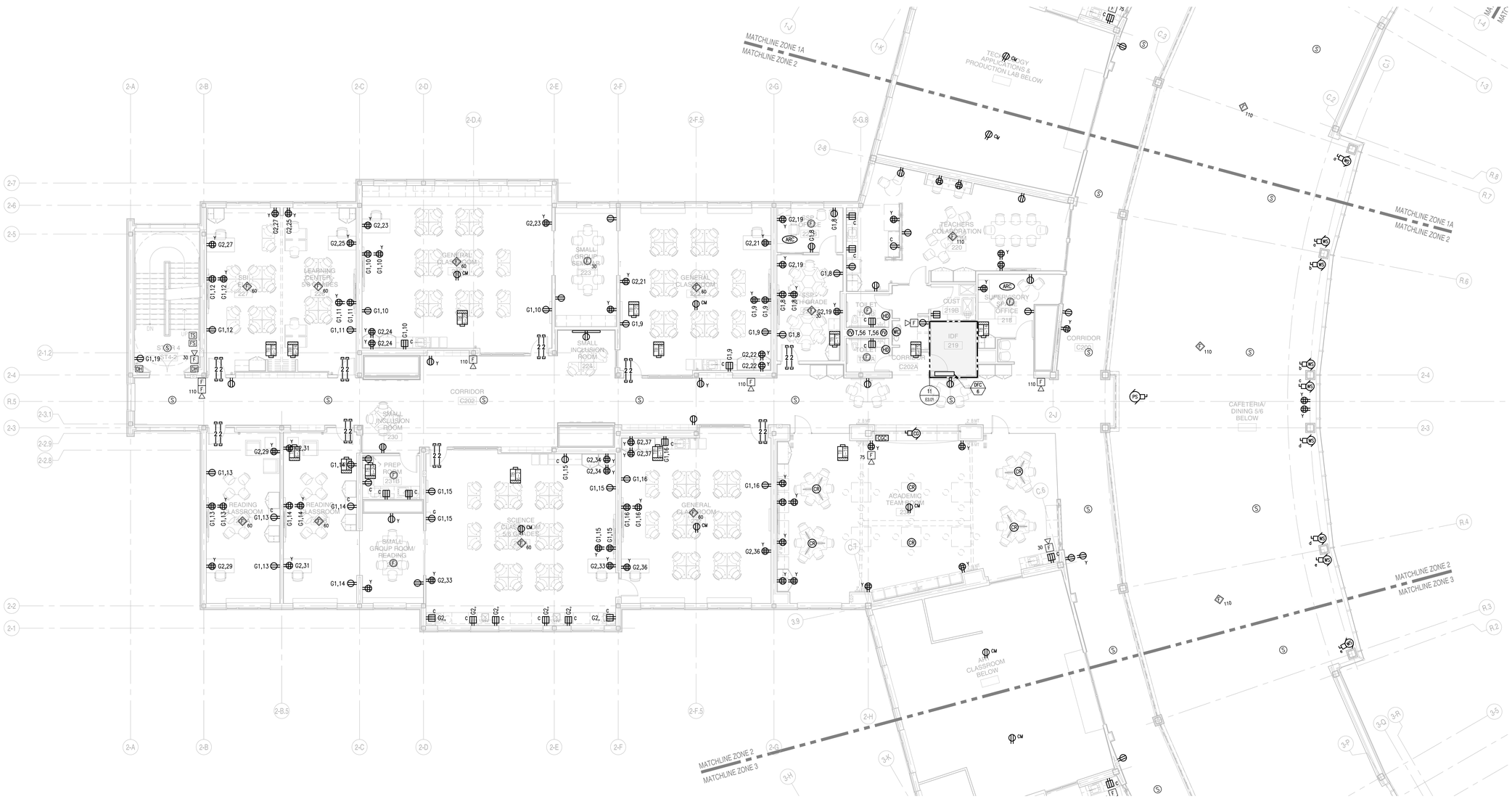
DRAWING NAME:

SECOND FLOOR POWER PLAN ZONES 1A & 1B ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: As Noted	DRAWING NUMBER:
JOB NO.: 1403.00	E2.21
DATE: July 25, 2016	

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			



1 SECOND FLOOR PLAN - ZONE 2
1/8"=1'-0"

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BEVERLY MIDDLE SCHOOL

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GENERAL NOTE LEGEND:

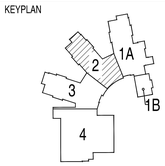
1. ELECTRICAL SUBCONTRACTOR SHALL WIRE ALL TERMINAL BOXES IN THIS AREA TO G1,18.

90% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

NORTH ARROW

KEYPLAN



DRAWING NAME:
SECOND FLOOR POWER PLAN ZONE 2 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: As Noted	DRAWING NUMBER:
JOB NO.: 1403.00	E2.22
DATE: July 25, 2016	

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			

1 SECOND FLOOR PLAN - ZONE 3
1/8"=1'-0"

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BEVERLY MIDDLE SCHOOL

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GENERAL NOTE LEGEND:

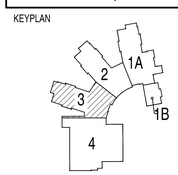
1. ELECTRICAL SUBCONTRACTOR SHALL WIRE ALL TERMINAL BOXES IN THIS AREA TO H1,14.

90% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

NORTH ARROW

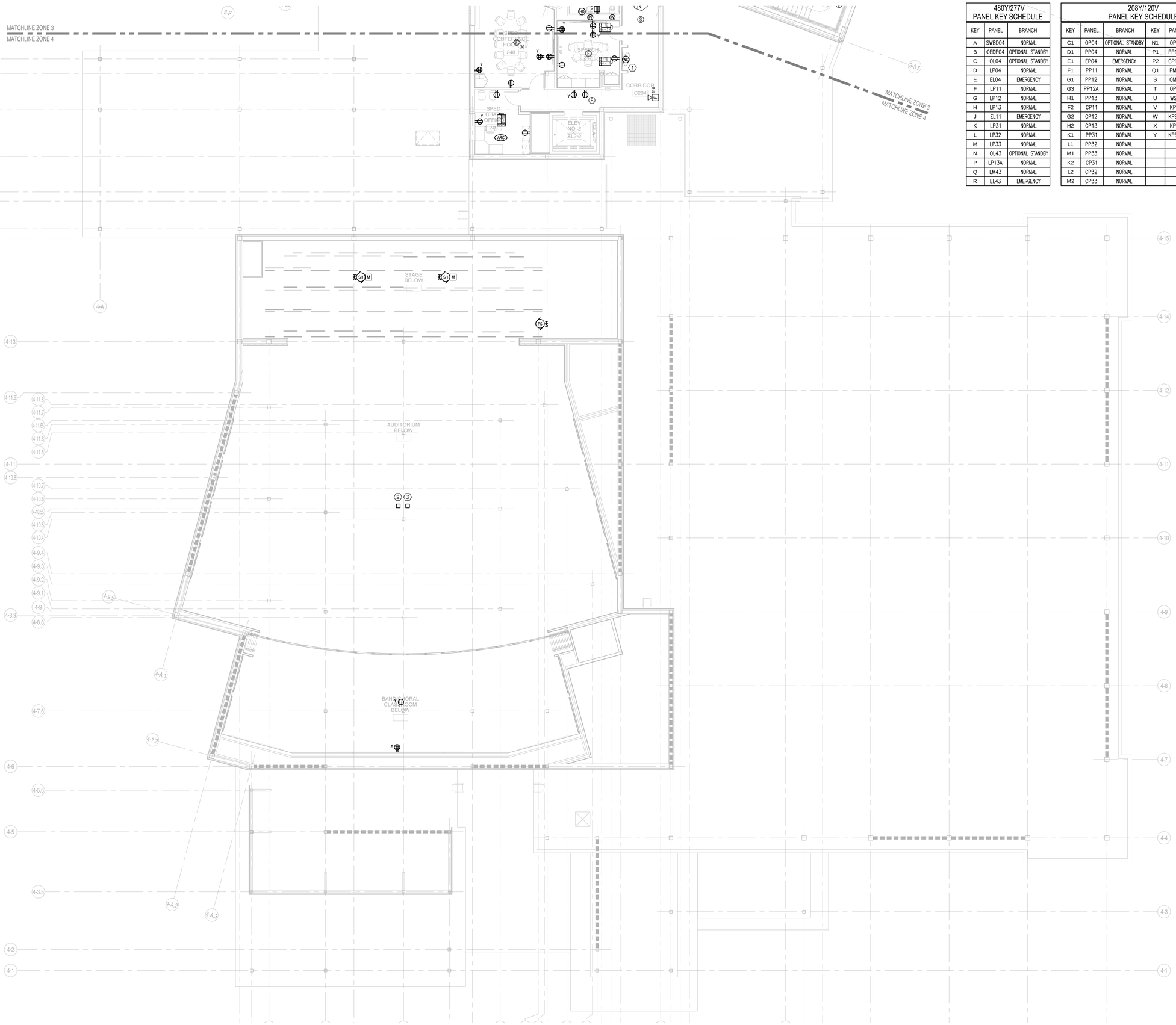
KEYPLAN



DRAWING NAME:

SECOND FLOOR POWER PLAN ZONE 3 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: As Noted	DRAWING NUMBER:
JOB NO.: 1403.00	E2.23
DATE: July 25, 2016	



480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			

1 SECOND FLOOR PLAN - ZONE 4
1/8"=1'-0"

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BEVERLY MIDDLE SCHOOL

CABOT STREET
BEVERLY, MA 01915

GENERAL NOTE LEGEND:

1. ELECTRICAL SUBCONTRACTOR SHALL WIRE ALL TERMINAL BOXES IN THIS AREA TO P1,2.

KEYNOTE LEGEND:

1. POWER FOR ELECTRIC WATER COOLER TO BE LOCATED ABOVE COOLER IN CEILING.
2. HOIST POWERHEAD, COORDINATE EXACT LOCATION WITH DIVISION 11-61-00 DRAWINGS.
3. HOIST DISTRIBUTION BOX, COORDINATE EXACT LOCATION WITH DIVISION 11-61-00 DRAWINGS.

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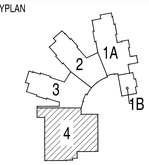
NORTH ARROW

KEYPLAN



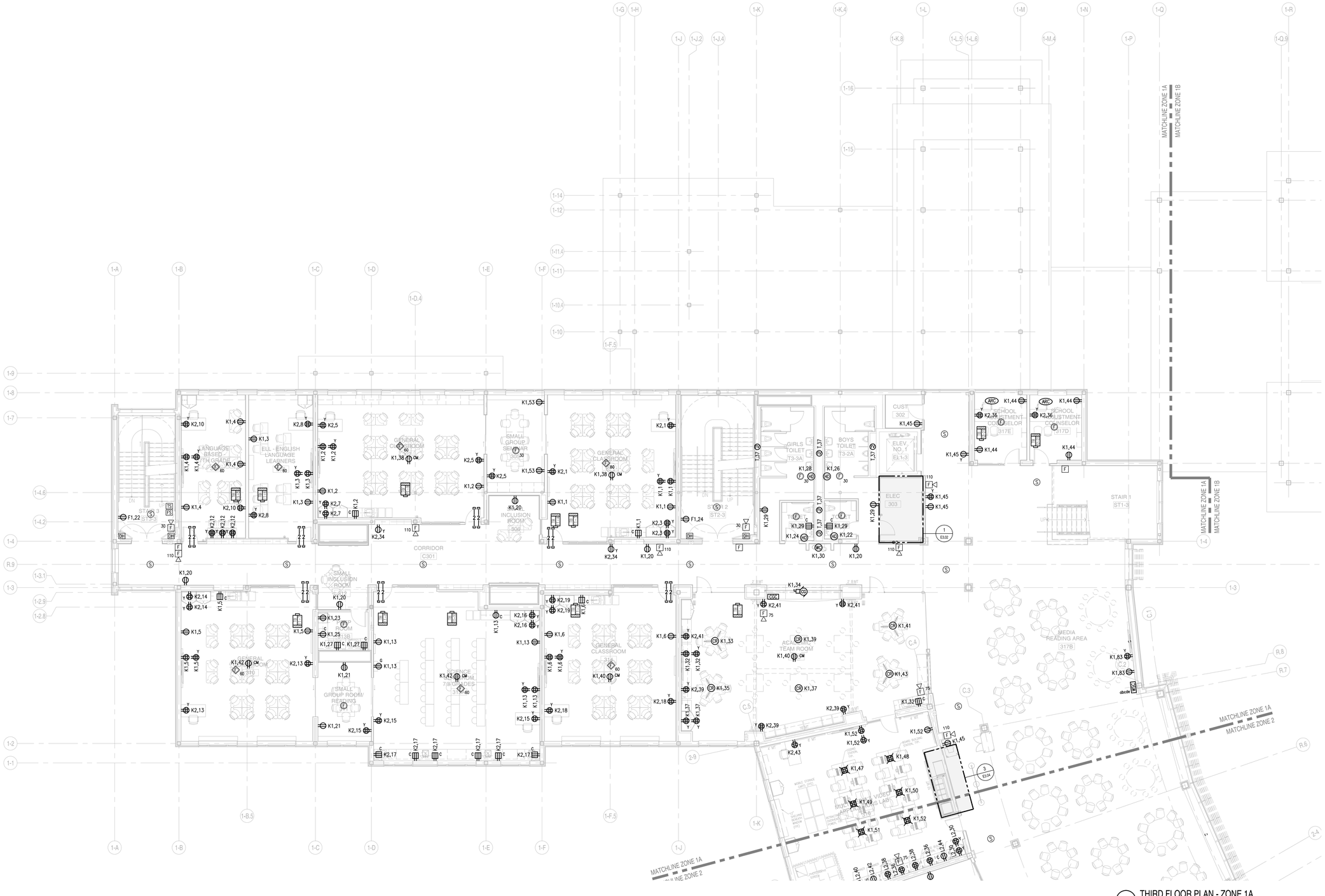
DRAWING NAME:

SECOND FLOOR POWER PLAN ZONE 4 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	As Noted
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	E2.24

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			



1 THIRD FLOOR PLAN - ZONE 1A
1/8"=1'-0"

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BEVERLY MIDDLE SCHOOL

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GENERAL NOTE LEGEND:

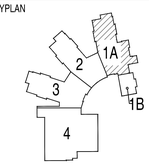
1. ELECTRICAL SUBCONTRACTOR SHALL WIRE ALL TERMINAL BOXES IN THIS AREA TO K1,18.

90% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

NORTH ARROW

KEYPLAN



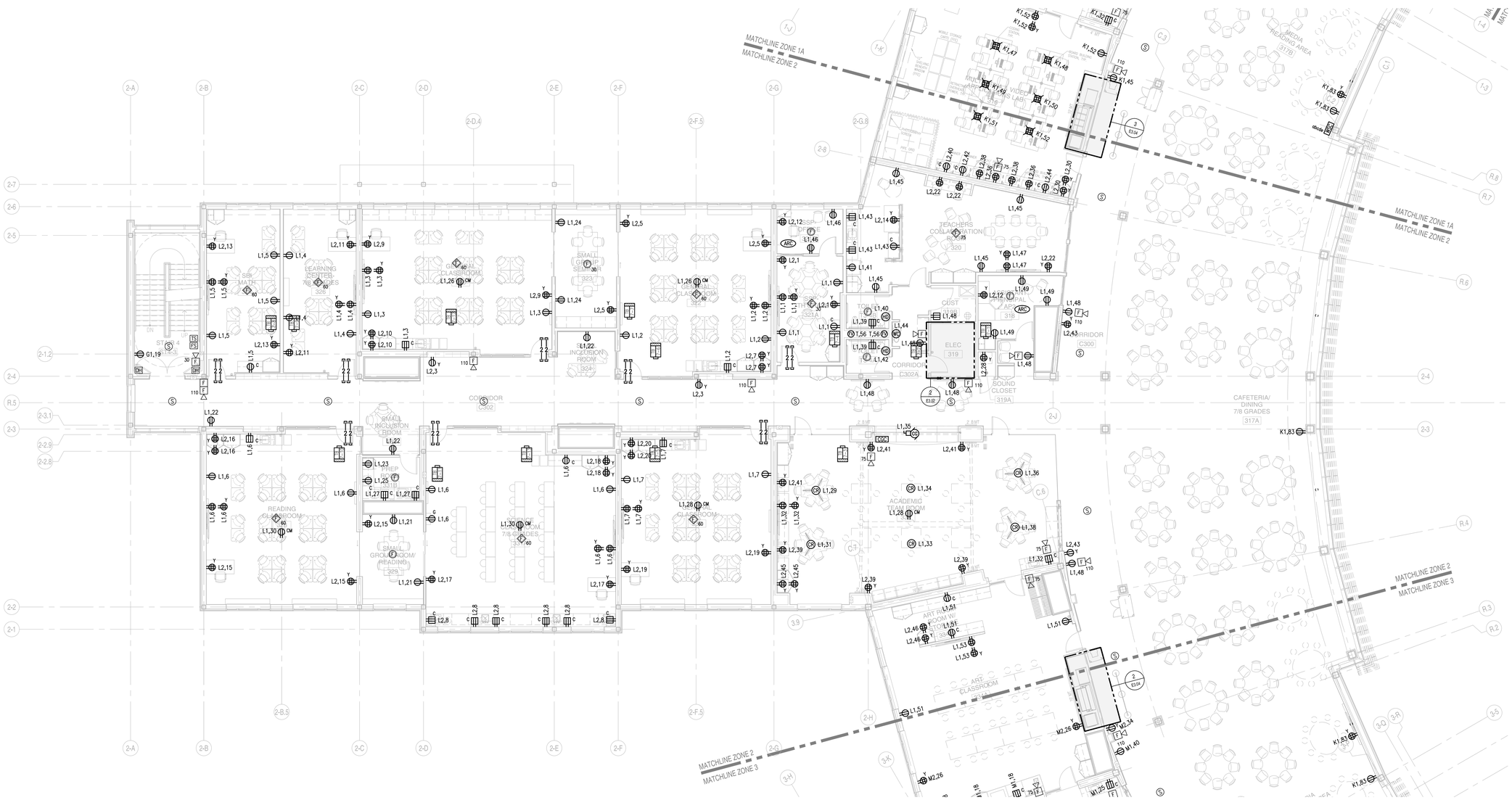
DRAWING NAME:

THIRD FLOOR POWER PLAN ZONE 1A ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: As Noted	DRAWING NUMBER:
JOB NO.: 1403.00	E2.31
DATE: July 25, 2016	

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			



1 THIRD FLOOR PLAN - ZONE 2
1/8"=1'-0"

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BEVERLY MIDDLE SCHOOL

CABOT STREET
BEVERLY, MA 01915

GENERAL NOTE LEGEND:

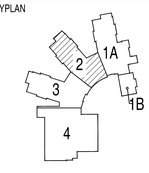
1. ELECTRICAL SUBCONTRACTOR SHALL WIRE ALL TERMINAL BOXES IN THIS AREA TO L1,19.

90% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

NORTH ARROW

KEYPLAN

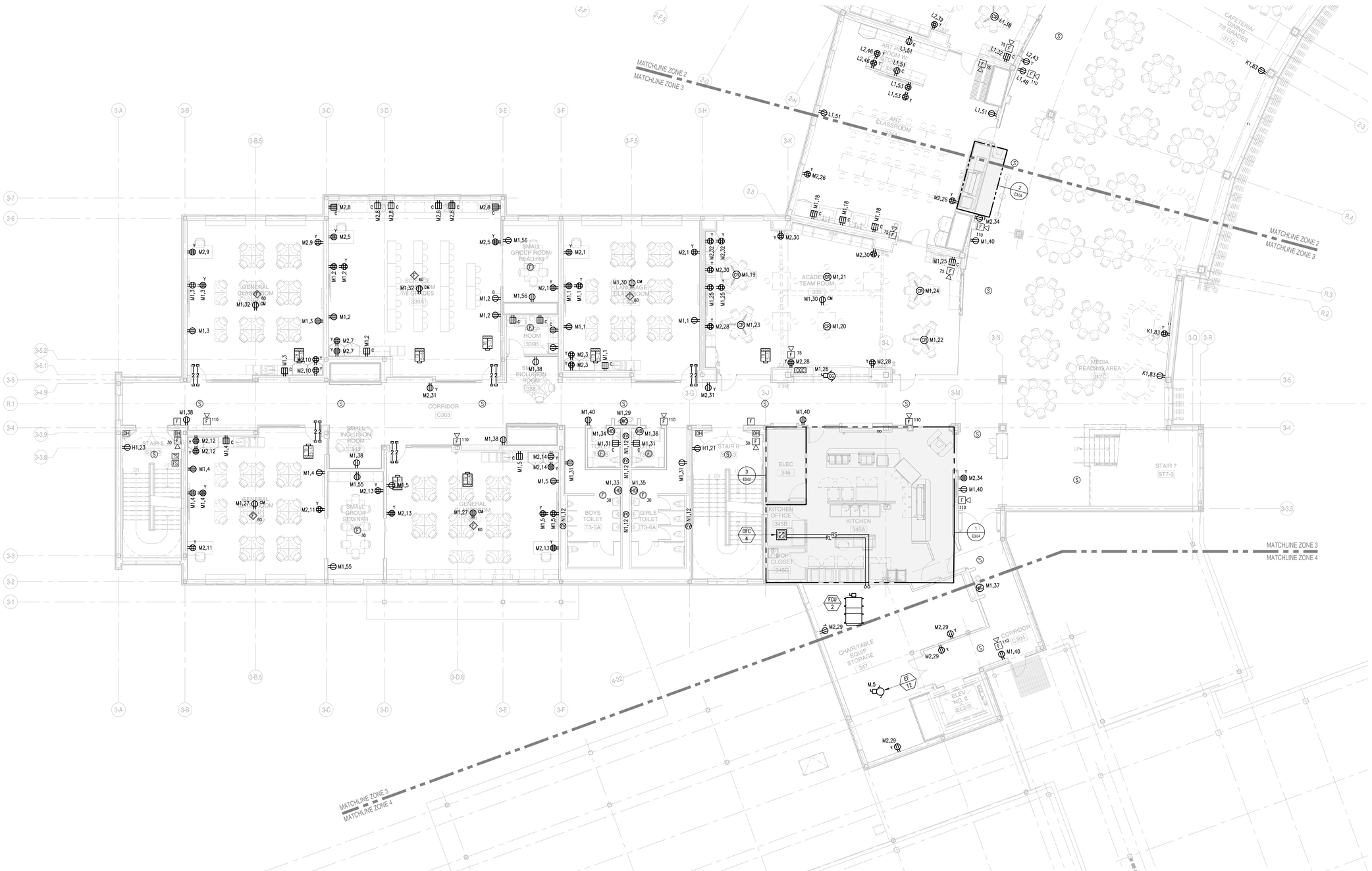


DRAWING NAME:
THIRD FLOOR POWER PLAN ZONE 2 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: As Noted	DRAWING NUMBER:
JOB NO.: 1403.00	E2.32
DATE: July 25, 2016	

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			



1 THIRD FLOOR PLAN - ZONE 3
1/8"=1'-0"

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BEVERLY MIDDLE SCHOOL

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BEVERLY, MA 01915

GENERAL NOTE LEGEND:

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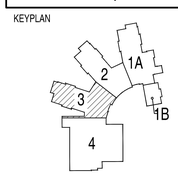
90% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

NORTH ARROW

KEYPLAN



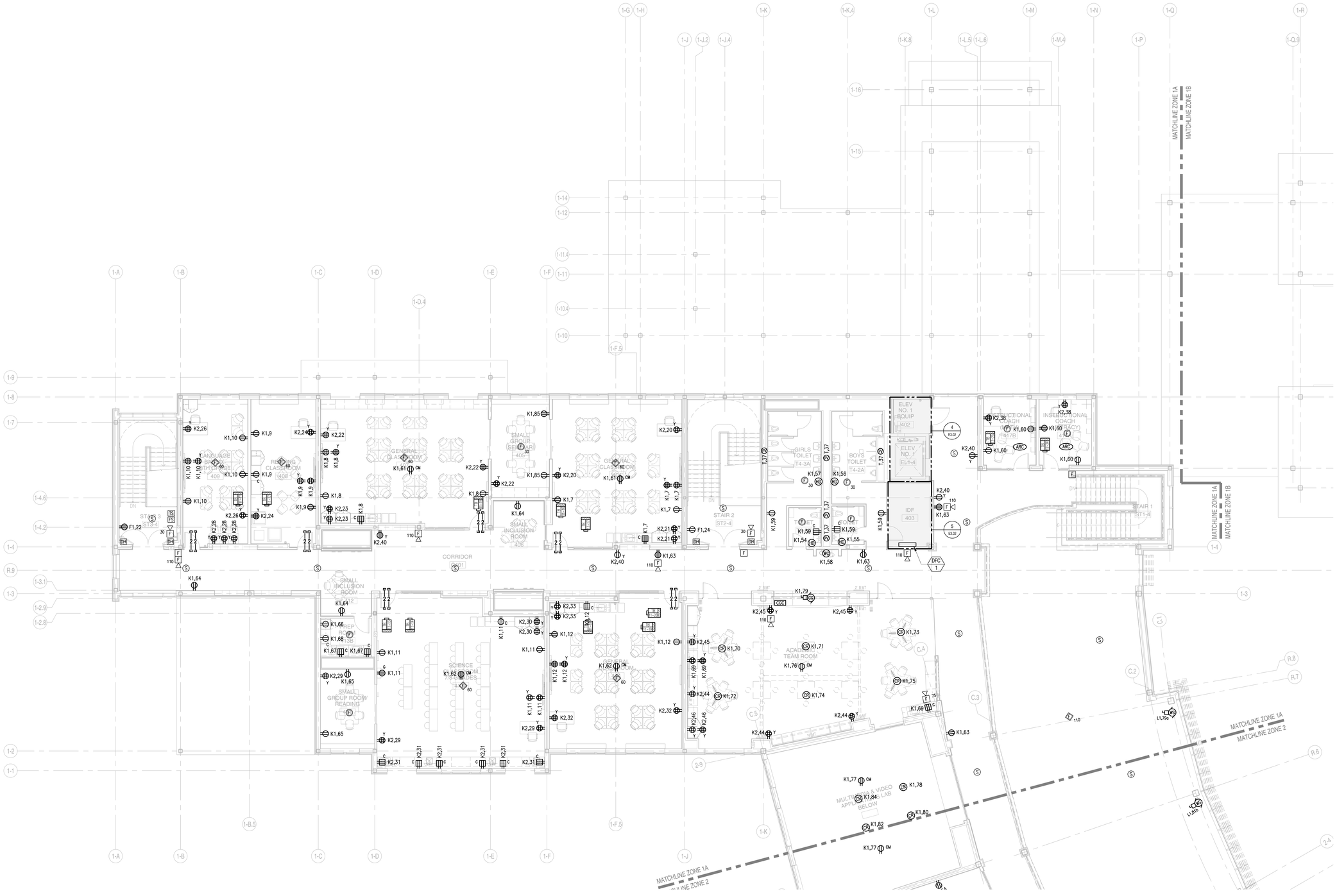
DRAWING NAME:

THIRD FLOOR POWER PLAN ZONE 3 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: As Noted	DRAWING NUMBER:
JOB NO.: 1403.00	E2.33
DATE: July 25, 2016	

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			



1 FOURTH FLOOR PLAN - ZONE 1A
1/8"=1'-0"

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GENERAL NOTE LEGEND:

1. ELECTRICAL SUBCONTRACTOR SHALL WIRE ALL TERMINAL BOXES IN THIS AREA TO K1,19.

90% CONSTRUCTION DOCUMENTS

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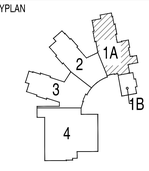
NORTH ARROW

KEYPLAN



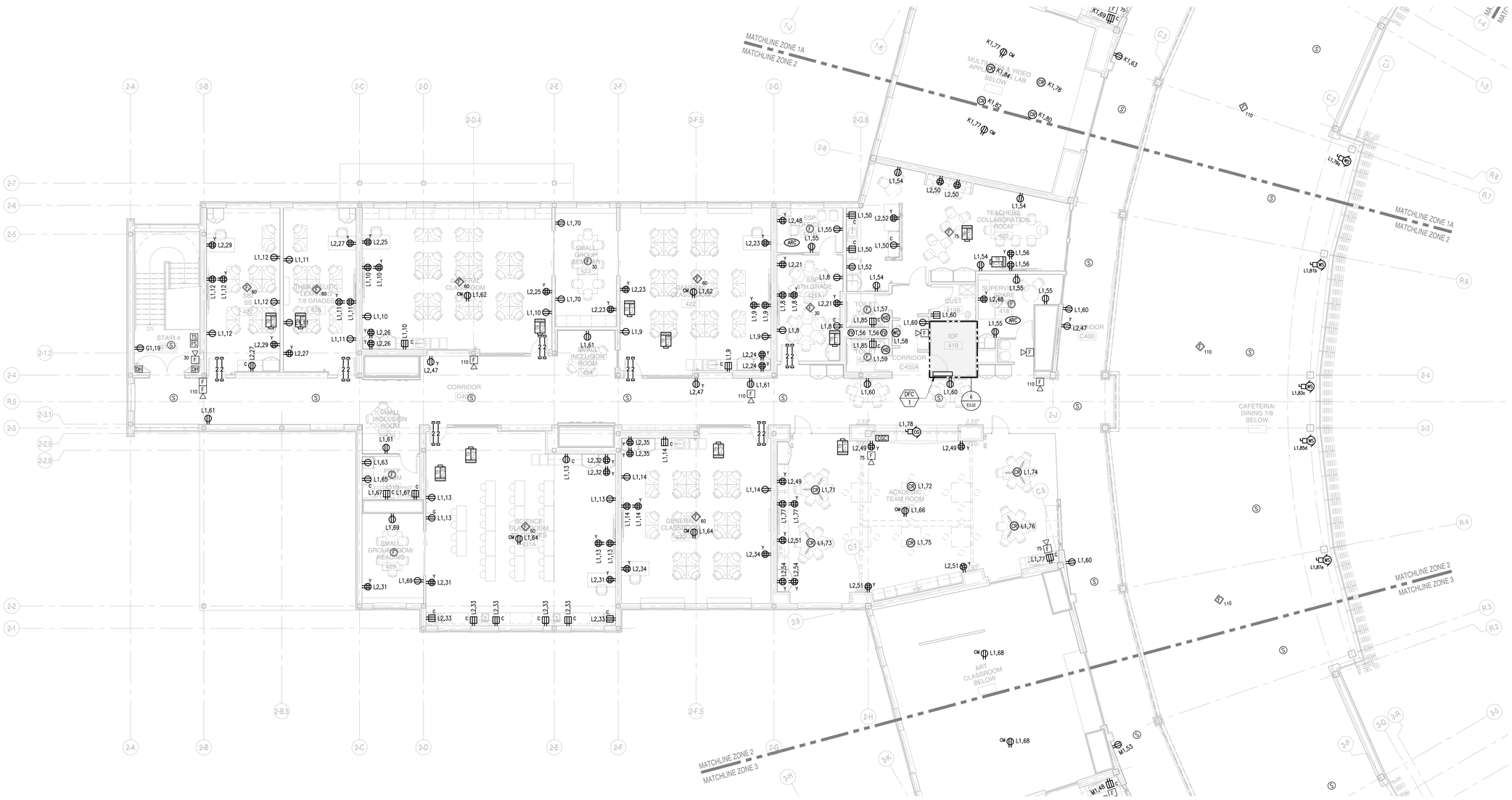
DRAWING NAME:

FOURTH FLOOR POWER PLAN ZONE 1A ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: As Noted	DRAWING NUMBER:
JOB NO.: 1403.00	E2.41
DATE: July 25, 2016	

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			



1 FOURTH FLOOR PLAN - ZONE 2
1/8"=1'-0"

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GENERAL NOTE LEGEND:

1. ELECTRICAL SUBCONTRACTOR SHALL WIRE ALL TERMINAL BOXES IN THIS AREA TO L1,20.

90% CONSTRUCTION DOCUMENTS

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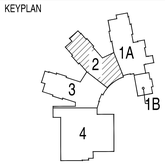
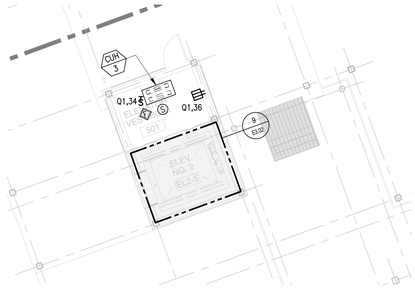
NORTH ARROW

KEYPLAN



DRAWING NAME:
FOURTH FLOOR POWER PLAN ZONE 2 ELECTRICAL

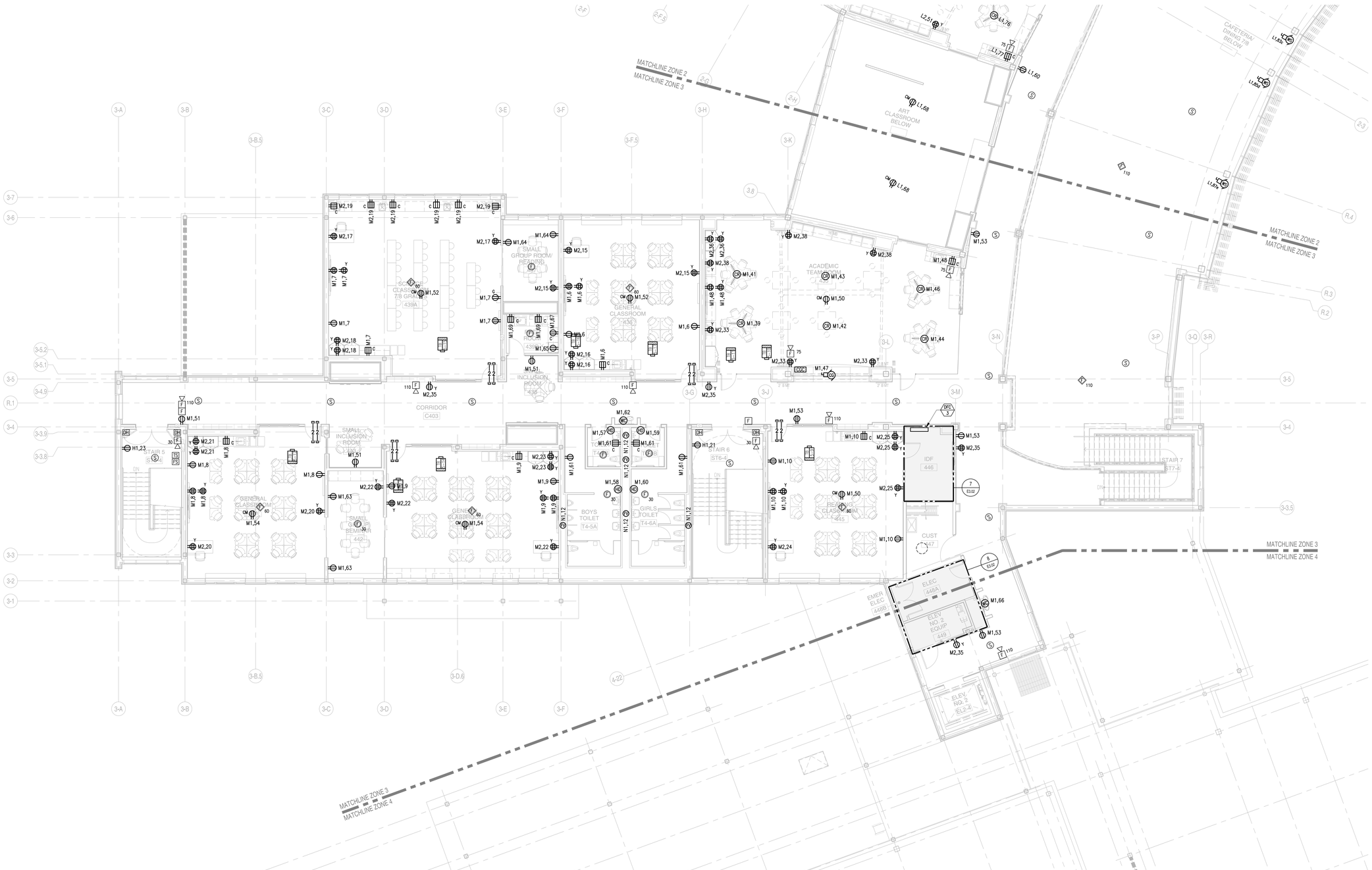
DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	As Noted
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	E2.42



2 ELEVATOR PENTHOUSE LEVEL
1/8"=1'-0"

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			



1 FOURTH FLOOR PLAN - ZONE 3
1/8"=1'-0"

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GENERAL NOTE LEGEND:

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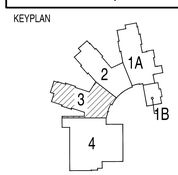
NORTH ARROW

KEYPLAN



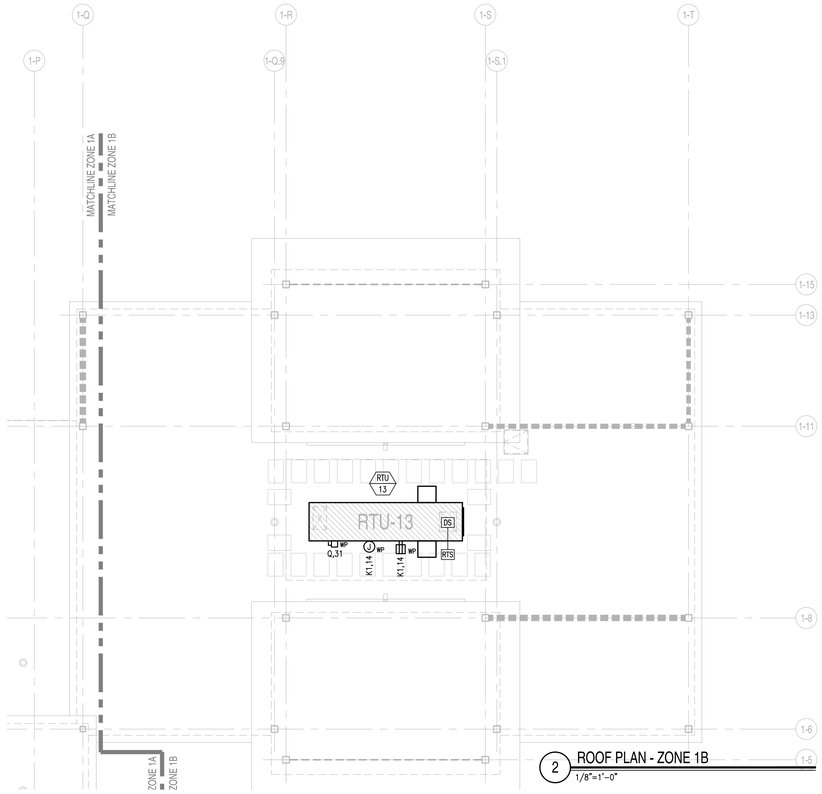
DRAWING NAME:

FOURTH FLOOR POWER PLAN ZONE 3 ELECTRICAL

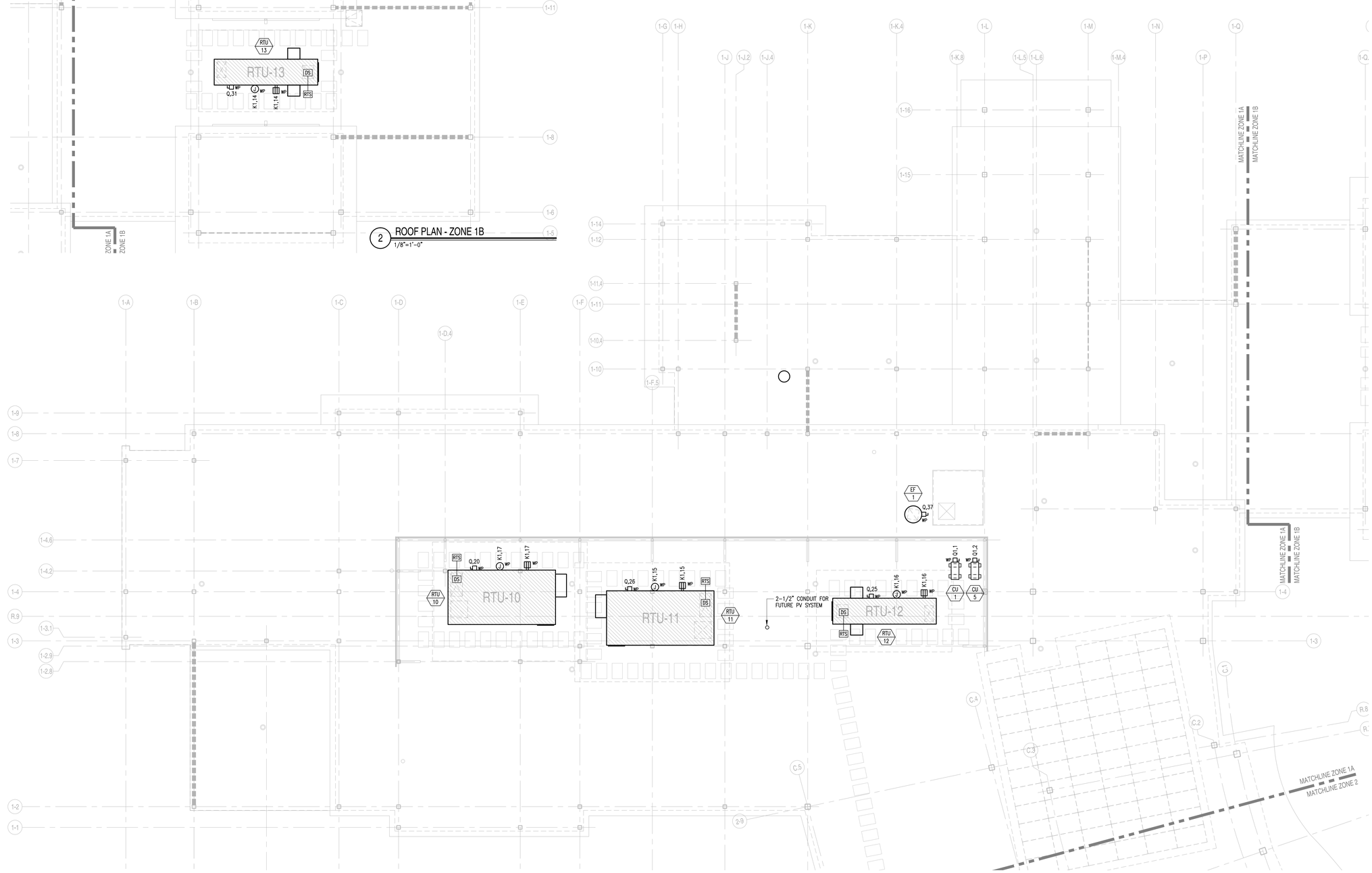
DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	As Noted
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	E2.43

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			



2 ROOF PLAN - ZONE 1B
1/8"=1'-0"



1 ROOF PLAN - ZONE 1A
1/8"=1'-0"

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GENERAL NOTE LEGEND:

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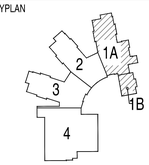
90% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

NORTH ARROW

KEYPLAN



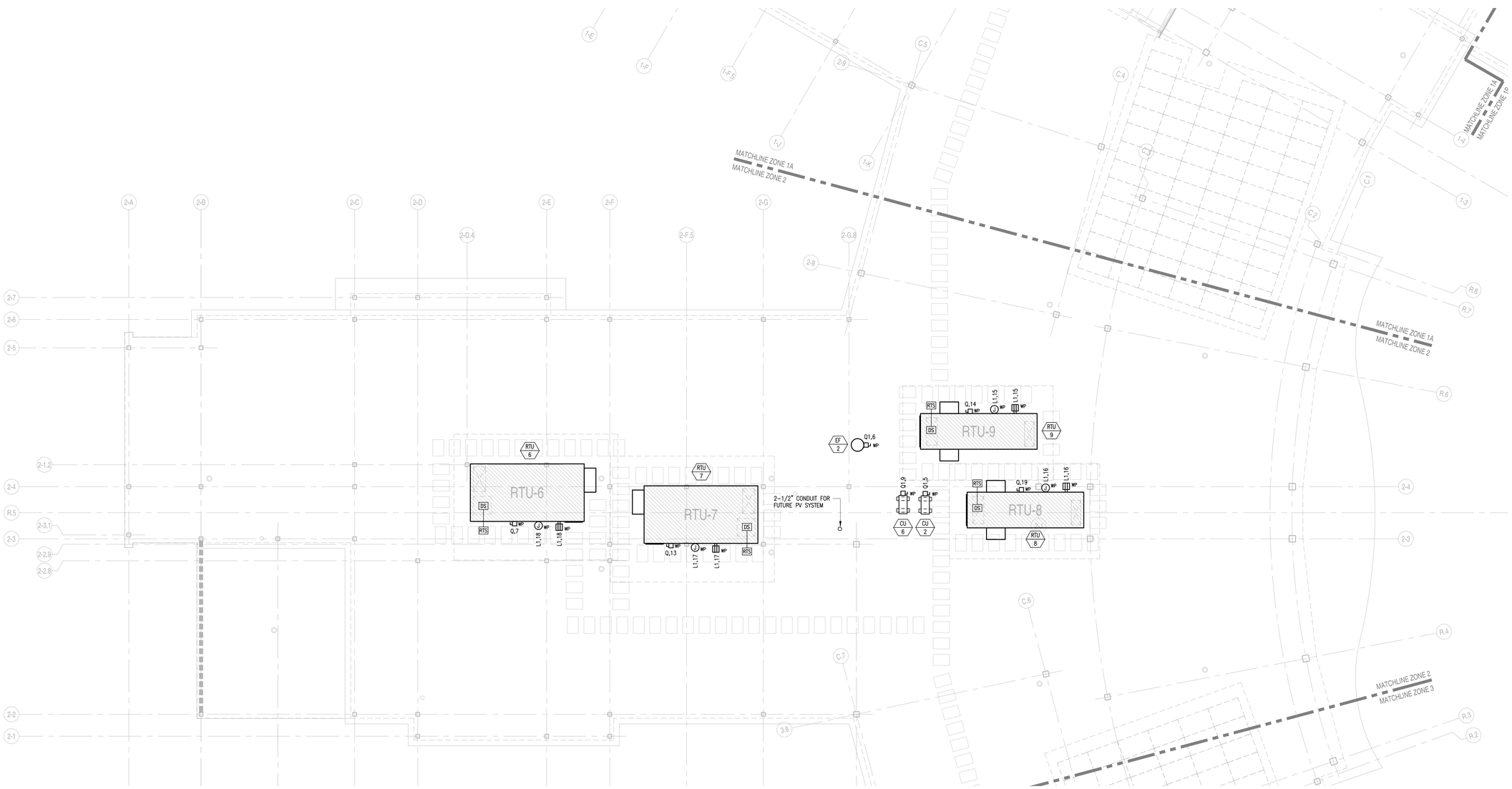
DRAWING NAME:

ROOF POWER PLAN ZONES 1A & 1B ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	As Noted
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	E2.51

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			



1 ROOF PLAN - ZONE 2
1/8"=1'-0"

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GENERAL NOTE LEGEND:

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90% CONSTRUCTION DOCUMENTS

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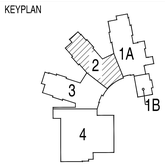
NORTH ARROW

KEYPLAN



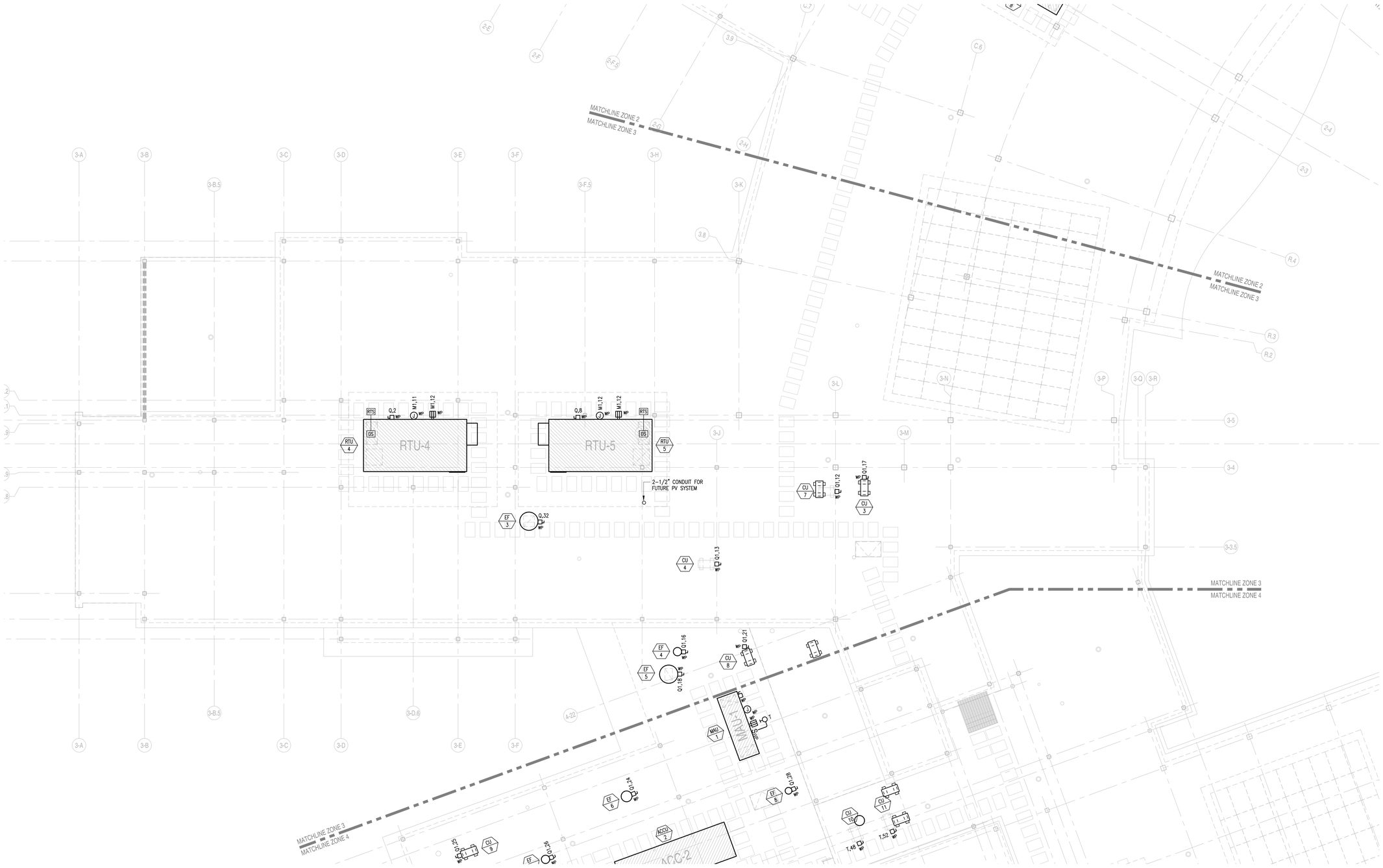
DRAWING NAME:

ROOF POWER PLAN ZONE 2 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: As Noted	DRAWING NUMBER:
JOB NO.: 1403.00	E2.52
DATE: July 25, 2016	

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			



1 ROOF PLAN - ZONE 3
1/8"=1'-0"

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GENERAL NOTE LEGEND:

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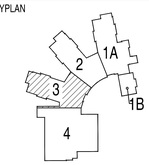
90% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

NORTH ARROW

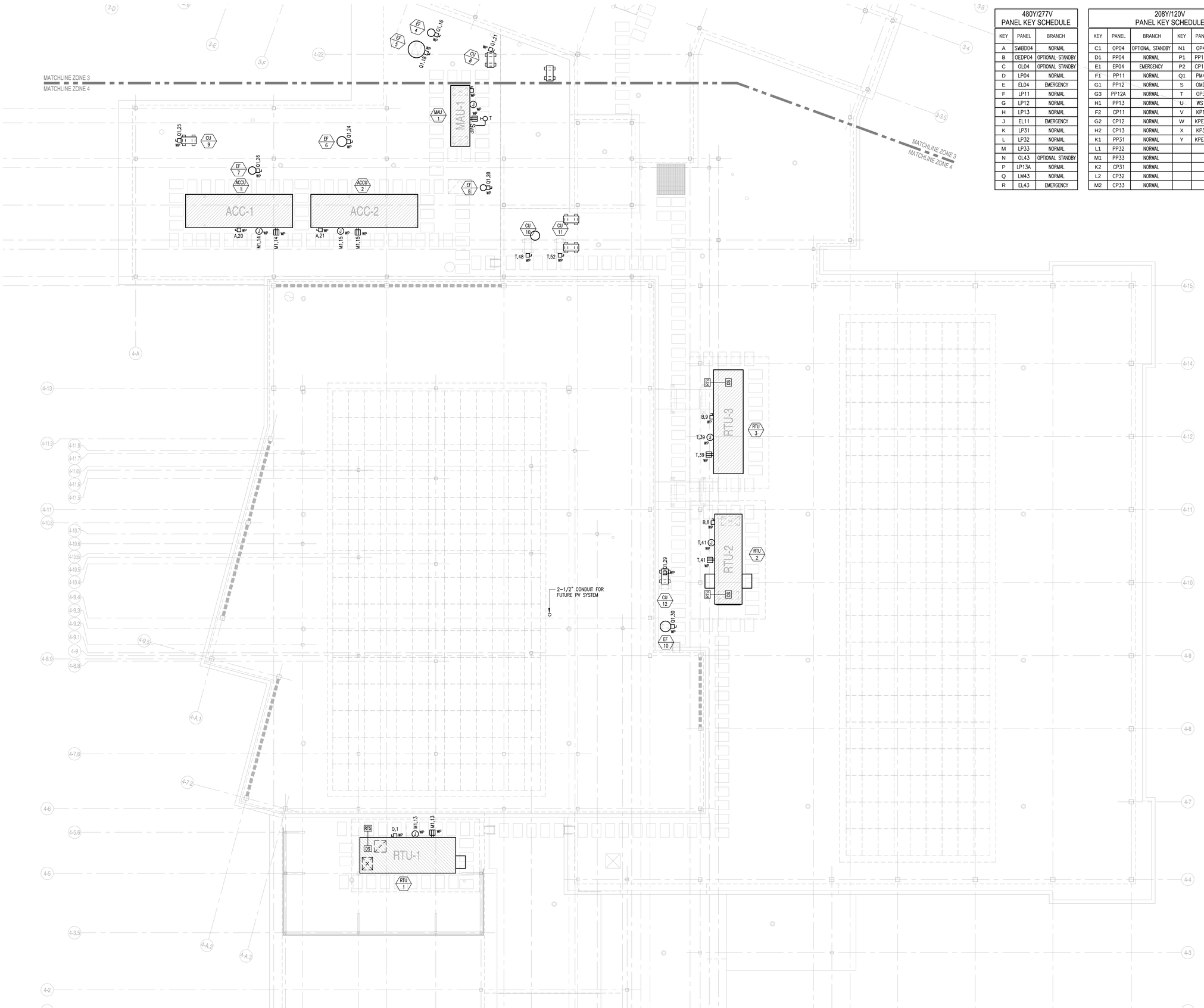
KEYPLAN



DRAWING NAME:

ROOF POWER PLAN ZONE 3 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	As Noted
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	E2.53



1 ROOF PLAN - ZONE 4
1/8"=1'-0"

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			

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GENERAL NOTE LEGEND:

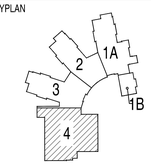
1. PROVIDE WIRING AS REQUIRED PER APPROVED MECHANICAL SHOP DRAWINGS VIA 3/4"C. FROM THE TERMINAL BLOCK OF EACH CONDENSING UNIT TO THE TERMINAL BLOCK OF ITS ASSOCIATED DUCTLESS FAN COIL.

90% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

NORTH ARROW

KEYPLAN

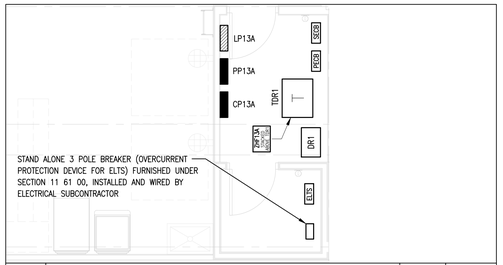


DRAWING NAME:

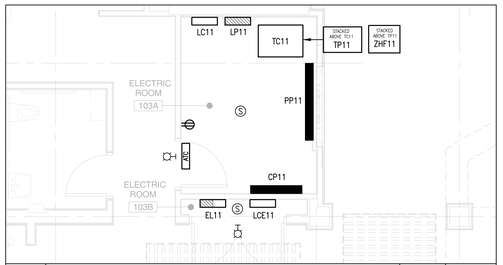
ROOF POWER PLAN ZONE 4 ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	As Noted
JOB NO.:	1403.00
DATE:	July 25, 2016

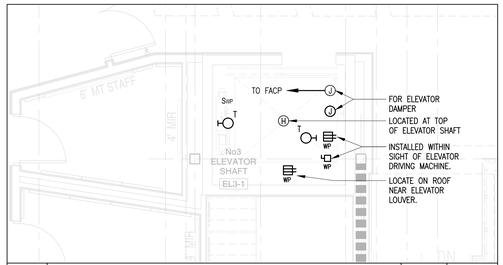
DRAWING NUMBER: E2.54



1	AUDITORIUM SOUND SYSTEM ELECTRIC ROOMS	SCALE:	REF. DWG#
		1/4"=1'-0"	E2.14



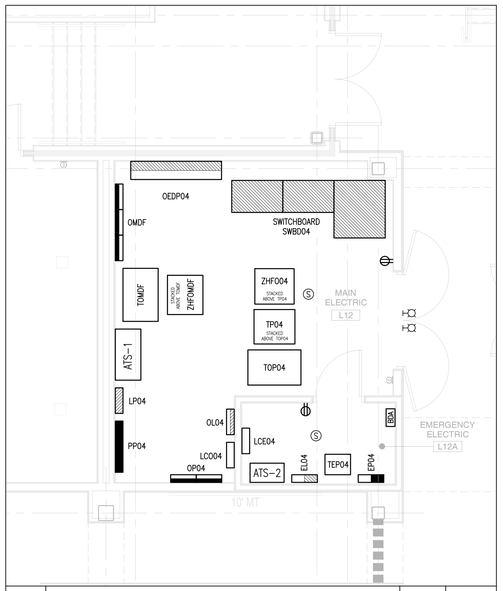
5	ELECTRIC ROOM 103A & EMERGENCY ELECTRIC ROOM 103B	SCALE:	REF. DWG#
		1/4"=1'-0"	E2.11



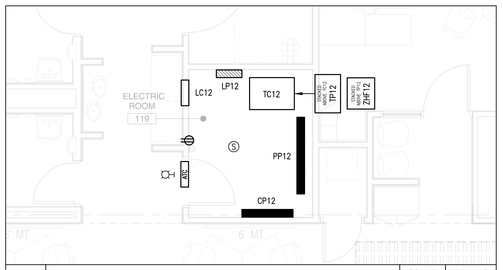
9	ELEVATOR No3 SHAFT EL3-1	SCALE:	REF. DWG#
		1/4"=1'-0"	E2.14

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

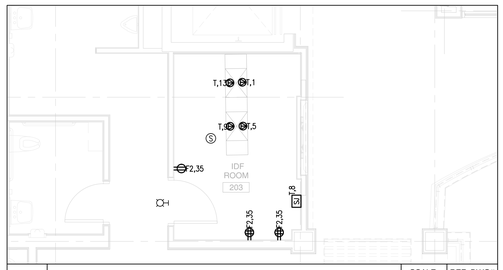
208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			



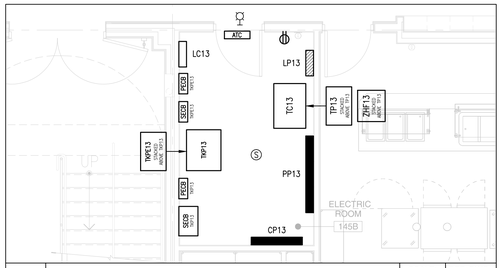
2	MAIN ELECTRIC ROOM L12	SCALE:	REF. DWG#
		1/4"=1'-0"	E2.04



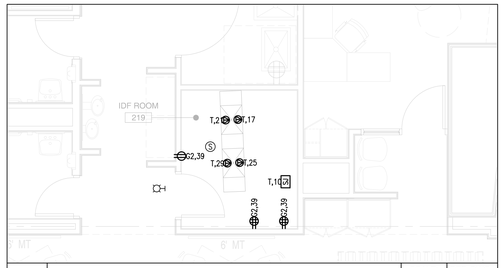
6	ELECTRIC ROOM 119	SCALE:	REF. DWG#
		1/4"=1'-0"	E2.12



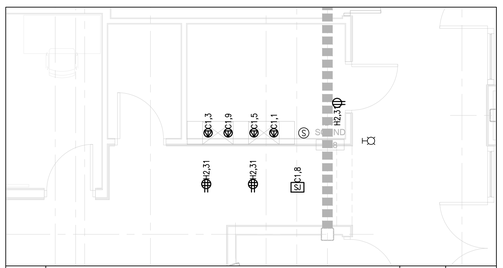
10	IDF ROOM 203	SCALE:	REF. DWG#
		1/4"=1'-0"	E2.21



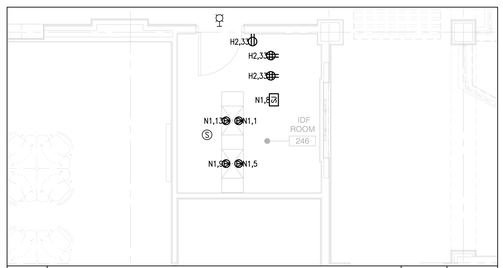
7	ELECTRIC ROOM 145B	SCALE:	REF. DWG#
		1/4"=1'-0"	E2.13



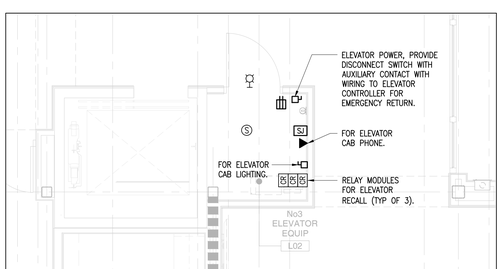
11	IDF ROOM 219	SCALE:	REF. DWG#
		1/4"=1'-0"	E2.22



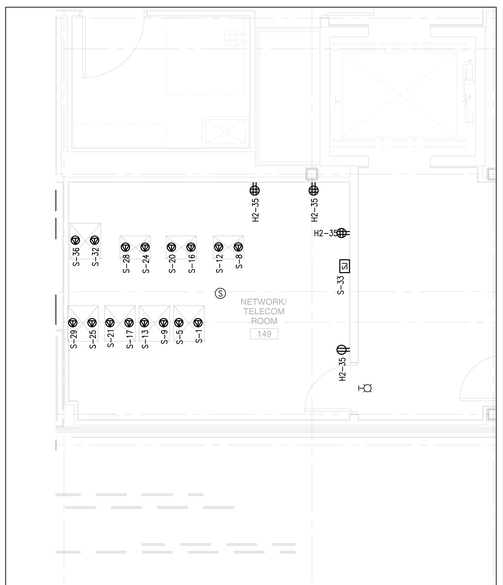
3	IDF ROOM L08	SCALE:	REF. DWG#
		1/4"=1'-0"	E2.04



12	IDF ROOM 246	SCALE:	REF. DWG#
		1/4"=1'-0"	E2.23



4	ELEVATOR No3 EQUIP ROOM L02	SCALE:	REF. DWG#
		1/4"=1'-0"	E2.04



8	NETWORK/TELECOM ROOM 149	SCALE:	REF. DWG#
		1/4"=1'-0"	E2.14

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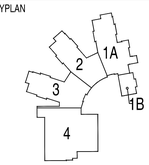
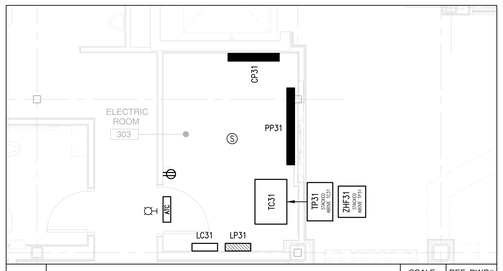
KEYPLAN

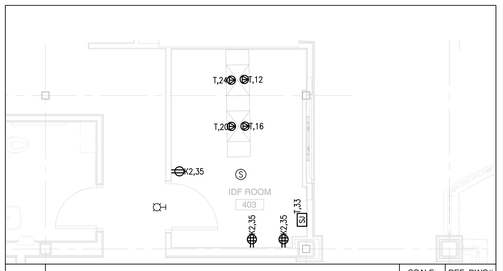


DRAWING NAME:
PART PLANS ELECTRICAL

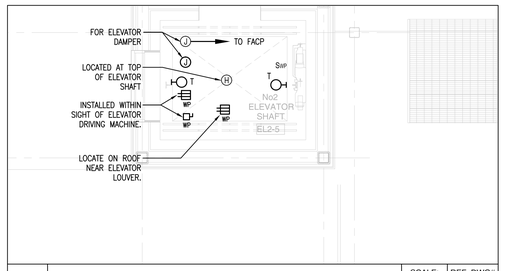
DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	As Noted
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	E3.01



1	ELECTRIC ROOM 303	SCALE: 1/4"=1'-0"	REF. DWG# E2.31



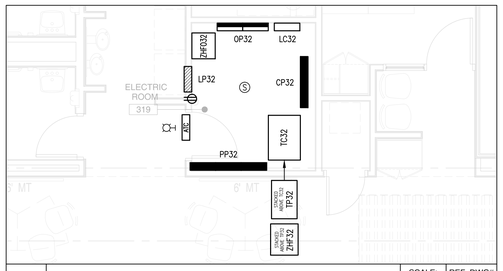
5	IDF ROOM 403	SCALE: 1/4"=1'-0"	REF. DWG# E2.41



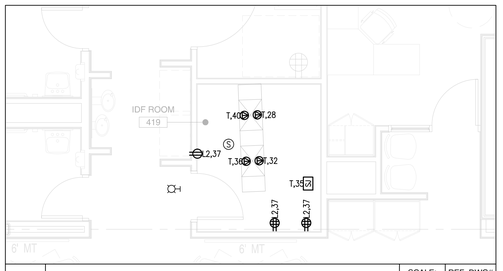
9	ELEVATOR No2 SHAFT EL2-5	SCALE: 1/4"=1'-0"	REF. DWG# E2.43

480Y/277V PANEL KEY SCHEDULE		
KEY	PANEL	BRANCH
A	SWBD04	NORMAL
B	OEDP04	OPTIONAL STANDBY
C	OL04	OPTIONAL STANDBY
D	LP04	NORMAL
E	EL04	EMERGENCY
F	LP11	NORMAL
G	LP12	NORMAL
H	LP13	NORMAL
J	EL11	EMERGENCY
K	LP31	NORMAL
L	LP32	NORMAL
M	LP33	NORMAL
N	OL43	OPTIONAL STANDBY
P	LP13A	NORMAL
Q	LM43	NORMAL
R	EL43	EMERGENCY

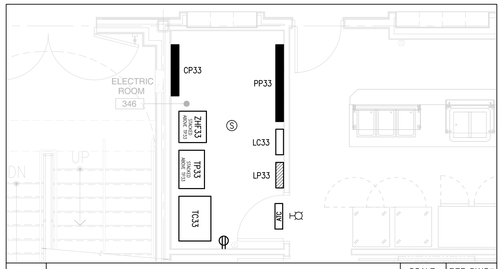
208Y/120V PANEL KEY SCHEDULE					
KEY	PANEL	BRANCH	KEY	PANEL	BRANCH
C1	OP04	OPTIONAL STANDBY	N1	OP43	OPTIONAL STANDBY
D1	PP04	NORMAL	P1	PP13A	NORMAL
E1	EP04	EMERGENCY	P2	CP13A	NORMAL
F1	PP11	NORMAL	Q1	PM43	NORMAL
G1	PP12	NORMAL	S	OMDF	OPTIONAL STANDBY
G3	PP12A	NORMAL	T	OP32	OPTIONAL STANDBY
H1	PP13	NORMAL	U	WS11	NORMAL
F2	CP11	NORMAL	V	KP13	NORMAL
G2	CP12	NORMAL	W	KPE13	EMERGENCY
H2	CP13	NORMAL	X	KP33	NORMAL
K1	PP31	NORMAL	Y	KPE33	EMERGENCY
L1	PP32	NORMAL			
M1	PP33	NORMAL			
K2	CP31	NORMAL			
L2	CP32	NORMAL			
M2	CP33	NORMAL			



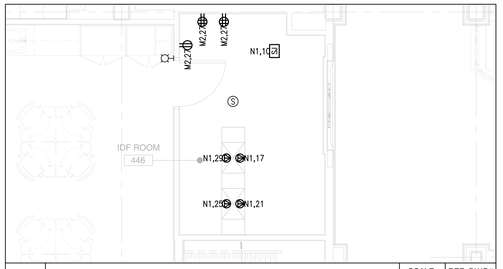
2	ELECTRIC ROOM 319	SCALE: 1/4"=1'-0"	REF. DWG# E2.32



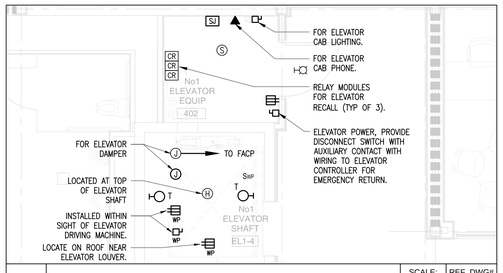
6	IDF ROOM 419	SCALE: 1/4"=1'-0"	REF. DWG# E2.42



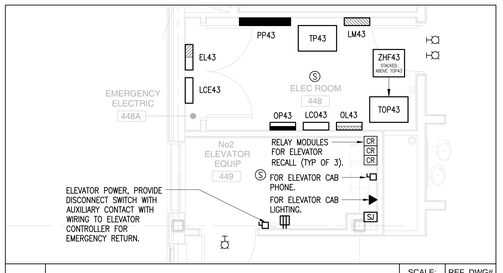
3	ELECTRIC ROOM 346	SCALE: 1/4"=1'-0"	REF. DWG# E2.33



7	IDF ROOM 446	SCALE: 1/4"=1'-0"	REF. DWG# E2.43



4	ELEVATOR No1 SHAFT EL1-4 & ELEVATOR MACHINE ROOM 402	SCALE: 1/4"=1'-0"	REF. DWG# E2.41



8	ELECTRIC ROOM 448 & No 2 ELEVATOR EQUIP RM 449	SCALE: 1/4"=1'-0"	REF. DWG# E2.43

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KEYNOTE LEGEND:

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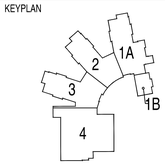
KEYPLAN



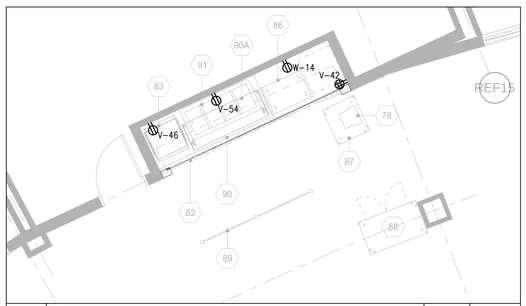
DRAWING NAME:

PART PLANS ELECTRICAL

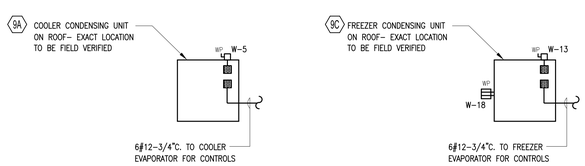
DRAWN BY: JGM
REVIEWED BY: RCB
SCALE: As Noted
JOB NO.: 1403.00
DATE: July 25, 2016
DRAWING NUMBER: E3.02

1	FIRST FLOOR KITCHEN #145A PART PLAN	SCALE: 1/4"=1'-0"	REF. DWG# E2.13

2	FIRST FLOOR CORRIDOR C100 FOOD SERVERY PART PLAN-1	SCALE: 1/4"=1'-0"	REF. DWG# E2.13



3	FIRST FLOOR CORRIDOR C100 FOOD SERVERY PART PLAN-2	SCALE: 1/4"=1'-0"	REF. DWG# E2.11



NOTES:

1. ALL DISCONNECT SWITCHES AND DEVICES ETC. LOCATED ON THE ROOF AND IN THE FREEZER, COOLER AND DISHWASH AREA SHALL BE IN NEMA 3R ENCLOSURES.
2. THE KITCHEN HOOD FIRE SUPPRESSION SYSTEM SHALL BE WIRED SO THAT WHEN THE FIRE SUPPRESSION SYSTEM IS ACTIVATED THE ELECTRIC SUPPLY TO ALL KITCHEN EQUIPMENT LOCATED BELOW THE EXHAUST CANOPIES (ITEMS 38, 39, 40, 41, 42, 43, 44) SHALL BE DISCONNECTED AND THE FIRE ALARM SYSTEM SHALL GO INTO ALARM. FURNISH AND INSTALL 2#12 – 1/2"C. TO PANEL KP TO ACTIVATE SHUNT–TRIP CIRCUIT BREAKERS.
3. REFER TO FOOD SERVICE EQUIPMENT DRAWINGS FOR EXACT LOCATIONS OF BOXES, RECEPTACLES, MOUNTING HEIGHTS, AND TYPES OF CONNECTIONS.
4. K.E.C. = KITCHEN EQUIPMENT CONTRACTOR
5. DOOR DEFROST FURNISHED AND INSTALLED BY K.E.C., WIRED BY E.C.
6. LIGHTING FIXTURES IN FREEZERS AND COOLERS, FURNISHED BY K.E.C., INSTALLED AND WIRED BY E.C.

4	COOLER CONDENSING WIRING DETAIL AND NOTES	SCALE: N.T.S.	REF. DWG# N/A

PANELBOARD: **KP13 (V)** — **600 A, 208Y/120 V, 3PH, 4W, 60HZ**

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
600A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☐ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☐ COMPUTER PANEL
- ☐ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.		LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	40/3	20/3						CKT NO.		LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	60/3	50/3	20/2				175/3
1													2												
3		MAU-X	S	8			1						4		WAREWASHER		6		1						
5													6												
7													8		WORK TABLE	G	12	1							
9		SIXTY QUART MIXER		12				1					10		WORK TABLE	G	12	1							
11													12		SLICER	G	12	1							
13		PREP COUNTER WITH SINKS	G	12		1							14		COOKS WORK TABLE	G	12	1							
15		FOOD PROCESSOR	G	12		1							16		COOKS WORK TABLE	G	12	1							
17													18		EXHAUST VENT LIGHTS		12	1							
19		DISPOSER		12				1					20		EXHAUST VENT LIGHTS		12	1							
21													22												
23		VENT DEMAND CONTROL SYS		12		1							24		UTILITY DISTRIBUTION SYSTEM		8			1					
25		COOKS WORK TABLE	G	12		1							26												
27		COOKS WORK TABLE	G	12		1							28		HOT FOOD WELL		12				1				
29		COOKS WORK TABLE	G	12		1							30												
31		WORK TABLE	G	12		1							32		REFG COLD PAN	G	12	1							
33		WORK TABLE	G	12		1							34		HTD SHELF WITH TWO TIER	G	12	1							
35		HOT FOOD CABINET	G	12		1							36		SERVING COUNTER	G	12	1							
37		DROP CORD	G	12		1							38		SERVING COUNTER	G	12	1							
39		DROP CORD	G	12		1							40		SERVING COUNTER	G	12	1							
41		SERVING COUNTER	G	12		1							42		CASHIER TERMINAL	G	6	1							
43		SERVING COUNTER	G	12		1							44		HTD SHELF WITH TWO TIER	G	12	1							
45		SERVING COUNTER	G	12		1							46		HTD SHELF WITH TWO TIER	G	6	1							
47		SPARE				1							48		HEATED SURFACE	G	12	1							
49		SPARE				1							50		SELF SEVICE BREATH GUARD		12				1				
51		SPARE				1							52												
53		SPARE				1							54		REFG COLD PAN	G	6	1							
55		SPARE				1							56												
57		SPARE				1							58		PANELBOARD KP33		SEE RSR								1
59		SPARE				1							60												
61		SPARE				1							62		SPARE			1							
63		SPARE				1							64		SPARE			1							
65		SPARE				1							66		SPARE			1							
67		SPARE				1							68		SPARE			1							
69		SPARE				1							70		SPARE			1							
71		SPARE				1							72		SPARE			1							
73		SPARE				1							74		SPARE			1							
75		SPARE				1							76		SPARE			1							
77		SPARE				1							78		SPARE			1							
79		SPARE				1							80		SPARE			1							
81		SPARE				1							82		SPARE			1							
83		SPARE				1							84		SPARE			1							

PANELBOARD: **KPE13 (W)** — **175 A, 208Y/120 V, 3PH, 4W, 60HZ**

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
225A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☐ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☐ COMPUTER PANEL
- ☑ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.		LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	20/3	20/2	60/3					CKT NO.		LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	20/2					
1		WALKIN COOLER		12	1								2		REACHIN REFG	G	12	1						
3		WALKIN FREEZER	G	12	1								4		FIRE SUPPRESSION SYSTEM		12	1						
5													6		PASS THRU REFG	G	12	1						
7		COOLER COND UNIT		12		1							8		GRAB N GO REFG		12		1					
9													10											
11		COOLER EVAP COIL		12	1								12		PREP TOP REFG	G	12	1						
13													14		GRAB N GO REFG	G	6	1						
15		FREEZER COND UNIT		12		1							16		GRAB N GO REFG	G	12	1						
17													18		ROOF RECEPTACLE		12	1						
19		FREEZER EVAP COIL		12			1						20		SPARE			1						
21													22		SPARE			1						
23		SPARE			1								24		SPARE			1						
25		SPARE			1								26		SPARE			1						
27		SPARE			1								28		SPARE			1						
29		SPARE			1								30		SPARE			1						
31		SPARE			1								32		SPARE			1						
33		SPARE			1								34		SPARE			1						
35		SPARE			1								36		SPARE			1						
37													38		SPARE			1						
39		PANELBOARD KPE33		SEE RSR				1					40		SPARE			1						
41													42		SPARE			1						

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BEVERLY MIDDLE SCHOOL

CABOT STREET
BEVERLY, MA 01915

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KEYNOTE LEGEND:

1. MICROSWITCH WIRING FROM FIRE SUPPRESSION SYSTEM.
   - E.C. TO PROVIDE CAT5 CONNECTION TO REMOTE TOUCH SCREEN, CABLE PROVIDED WITH SYSTEM BY K.E.C..
   - E.C. TO PROVIDE HIGH VOLTAGE CONNECTIONS FROM VFD TO EXHAUST FAN
   - E.C. TO PROVIDE WIRING TO TEMP SENSORS AT HOODS.
   - E.C. TO PROVIDE WIRING TO ROOM TEMP SENSOR
   - E.C. TO PROVIDE WIRING FROM BUILDING MANAGEMENT SYSTEM REMOTE CONTROL.

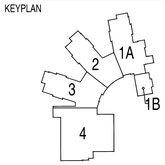
   TIE UTILITY DISTRIBUTION SYSTEM TERMINALS 'H1' AND 'N1' TO SIMILAR CIRCUIT TERMINALS IN EMS HOOD CONTROL SYSTEM FOR FIRE/FUEL CONTROL. TIE UTILITY DISTRIBUTION SYSTEM TO HOOD FIRE SYSTEM MICRO SWITCH FOR UTILITY DISTRIBUTION SYSTEM SHUT DOWN IN A FIRE CONDITION.
2. PROVIDE MONITOR MODULE AND TIE INTO FIRE SUPPRESSION SYSTEM AND TO SHUNT TRIP C.B. FEEDING ??–? SO THAT C.B. WILL TRIP UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM THUS SHUTTING DOWN ??–?.
3. MAKE ALL FIELD CONNECTIONS FOR ITEMS #51 THRU #55 FROM UTILITY DISTRIBUTION SYSTEM ITEM #44. PROVIDE THE FOLLOWING WIRING FOR EACH PIECE OF EQUIPMENT CONNECTION TO (ITEM #44):
   - ITEM #51 – 2#12+#12G, 1/2"C.
   - ITEM #52 – 2#12+#12G, 1/2"C.
   - ITEM #53 – (2) 2#12+#12G, 1/2"C.
   - ITEM #54 – (2) 2#12+#12G, 1/2"C.
   - ITEM #55 – 2#12+#12G, 1/2"C.

90% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

NORTH ARROW

KEYPLAN

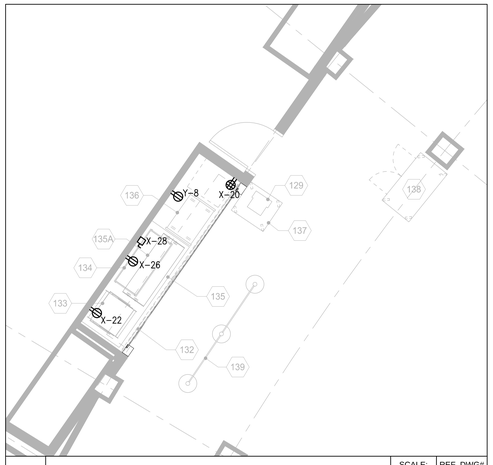


DRAWING NAME:

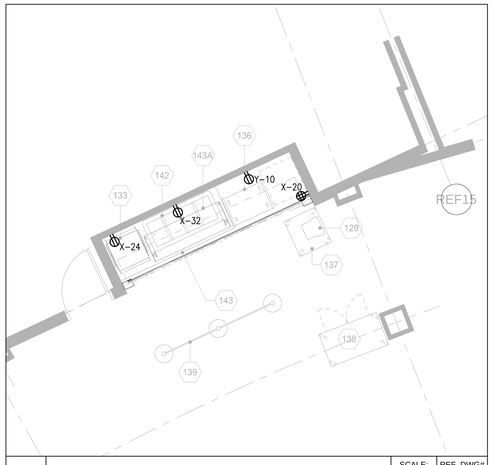
FIRST FLOOR KITCHEN PART PLAN ELETRICAL

DRAWN BY: JGM
REVIEWED BY: RCB
SCALE: AS NOTED
JOB NO.: 1403.00
DATE: July 25, 2016
DRAWING NUMBER: E3.03

1	THIRD FLOOR KITCHEN #345A PART PLAN	SCALE: 1/4"=1'-0"	REF. DWG# E2.33



2	THIRD FLOOR CORRIDOR C300 FOOD SERVERY PART PLAN-1	SCALE: N.T.S.	REF. DWG# E2.33



3	THIRD FLOOR CORRIDOR C300 FOOD SERVERY PART PLAN-2	SCALE: N.T.S.	REF. DWG# E2.33

PANELBOARD: **KP33 (X)** — **175 A, 208Y/120 V, 3PH, 4W, 60HZ**

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
225A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☐ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☐ COMPUTER PANEL
- ☐ SURGE PROTECTION DEVICE

NOTES:
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.		LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 2/01	40/3	'	'	'	'	'	'	CKT NO.		LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 2/01	2/02	'	'	'	'	'	'
1		MAU-1	S	8		1							2		HOT FOOD WELL		12		1						
3													4												
5													6		REFG COLD PAN	G	12	1							
7		DOUBLE CONVECTION OVEN	G	12	1								8		HTD SHELF TWO TIER	G	12	1							
9		DOUBLE CONVECTION OVEN	G	12	1								10		SERVING COUNTER	G	12	1							
11		EXHAUST VENT LIGHTS		12	1								12		SERVING COUNTER	G	12	1							
13		WORK TABLE WITH OVERSHELF	G	12	1								14		SERVING COUNTER	G	12	1							
15		WORK TABLE WITH OVERSHELF	G	12	1								16		SERVING COUNTER		12		1						
17		HOT FOOD HOLDING CABINET	G	12	1								18												
19		HOT FOOD HOLDING CABINET	G	12	1								20		CASHIER TERMINAL	G	6	1							
21		SERVICE COUNTER	G	12	1								22		HTD SHELF TWO TIER	G	12	1							
23		SERVICE COUNTER	G	12	1								24		HTD SHELF TWO TIER	G	6	1							
25		SPARE			1								26		HEATED SURFACE	G	12	1							
27		SPARE			1								28		SELF SEVICE BREATH GUARD		12		1						
29		SPARE			1								30												
31		SPARE			1								32		REFG COLD PAN	G	6	1							
33		SPARE			1								34		SPARE			1							
35		SPARE			1								36		SPARE			1							
37		SPARE			1								38		SPARE			1							
39		SPARE			1								40		SPARE			1							
41		SPARE			1								42		SPARE			1							

PANELBOARD: **KPE33 (Y)** — **60 A, 208Y/120 V, 3PH, 4W, 60HZ**

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
100A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☐ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☐ COMPUTER PANEL
- ☑ SURGE PROTECTION DEVICE

NOTES:
LC = VIA LIGHTING CONTROL PANEL
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IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.		LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 2/01	'	'	'	'	'	'	'	CKT NO.		LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 2/01	2/02	'	'	'	'	'	'
1		ROLLIN REFG	G	12	1								2		GRAB N GO REFG		12		1						
3		ROLLIN REFG	G	12	1								4												
5		FIRE SUPPRESSION SYSTEM		12	1								6		PREP TOP REFG	G	12	1							
7		REACHIN REFG	G	12	1								8		GRAB N GO REFG	G	12	1							
9		SPARE			1								10		GRAB N GO REFG	G	6	1							
11		SPARE			1								12		SPARE			1							
13		SPARE			1								14		SPARE			1							
15		SPARE			1								16		SPARE			1							
17		SPARE			1								18		SPARE			1							
19		SPARE			1								20		SPARE			1							
21		SPARE			1								22		SPARE			1							
23		SPARE			1								24		SPARE			1							
25		SPARE			1								26		SPARE			1							
27		SPARE			1								28		SPARE			1							
29		SPARE			1								30		SPARE			1							
31		SPARE			1								32		SPARE			1							
33		SPARE			1								34		SPARE			1							
35		SPARE			1								36		SPARE			1							
37		SPARE			1								38		SPARE			1							
39		SPARE			1								40		SPARE			1							
41		SPARE			1								42		SPARE			1							

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BEVERLY MIDDLE SCHOOL

CABOT STREET
BEVERLY, MA 01915

KEYNOTE LEGEND:

1. MICROSWITCH WIRING FROM FIRE SUPPRESSION SYSTEM.
   - E.C. TO PROVIDE CAT5 CONNECTION TO REMOTE TOUCH SCREEN, CABLE PROVIDED WITH SYSTEM BY K.E.C..
   - E.C. TO PROVIDE HIGH VOLTAGE CONNECTIONS FROM VFD TO EXHAUST FAN
   - E.C. TO PROVIDE WIRING TO TEMP SENSORS AT HOODS.
   - E.C. TO PROVIDE WIRING TO ROOM TEMP SENSOR
   - E.C. TO PROVIDE WIRING FROM BUILDING MANAGEMENT SYSTEM REMOTE CONTROL.

   TIE UTILITY DISTRIBUTION SYSTEM TERMINALS 'H1' AND 'N1' TO SIMILAR CIRCUIT TERMINALS IN EMS HOOD CONTROL SYSTEM FOR FIRE/FUEL CONTROL. TIE UTILITY DISTRIBUTION SYSTEM TO HOOD FIRE SYSTEM MICRO SWITCH FOR UTILITY DISTRIBUTION SYSTEM SHUT DOWN IN A FIRE CONDITION.

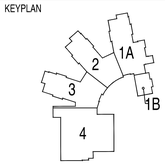
2. PROVIDE MONITOR MODULE AND TIE INTO FIRE SUPPRESSION SYSTEM AND TO SHUNT TRIP C.B. FEEDING ??-? SO THAT C.B. WILL TRIP UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM THUS SHUTTING DOWN ??-?.

90% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

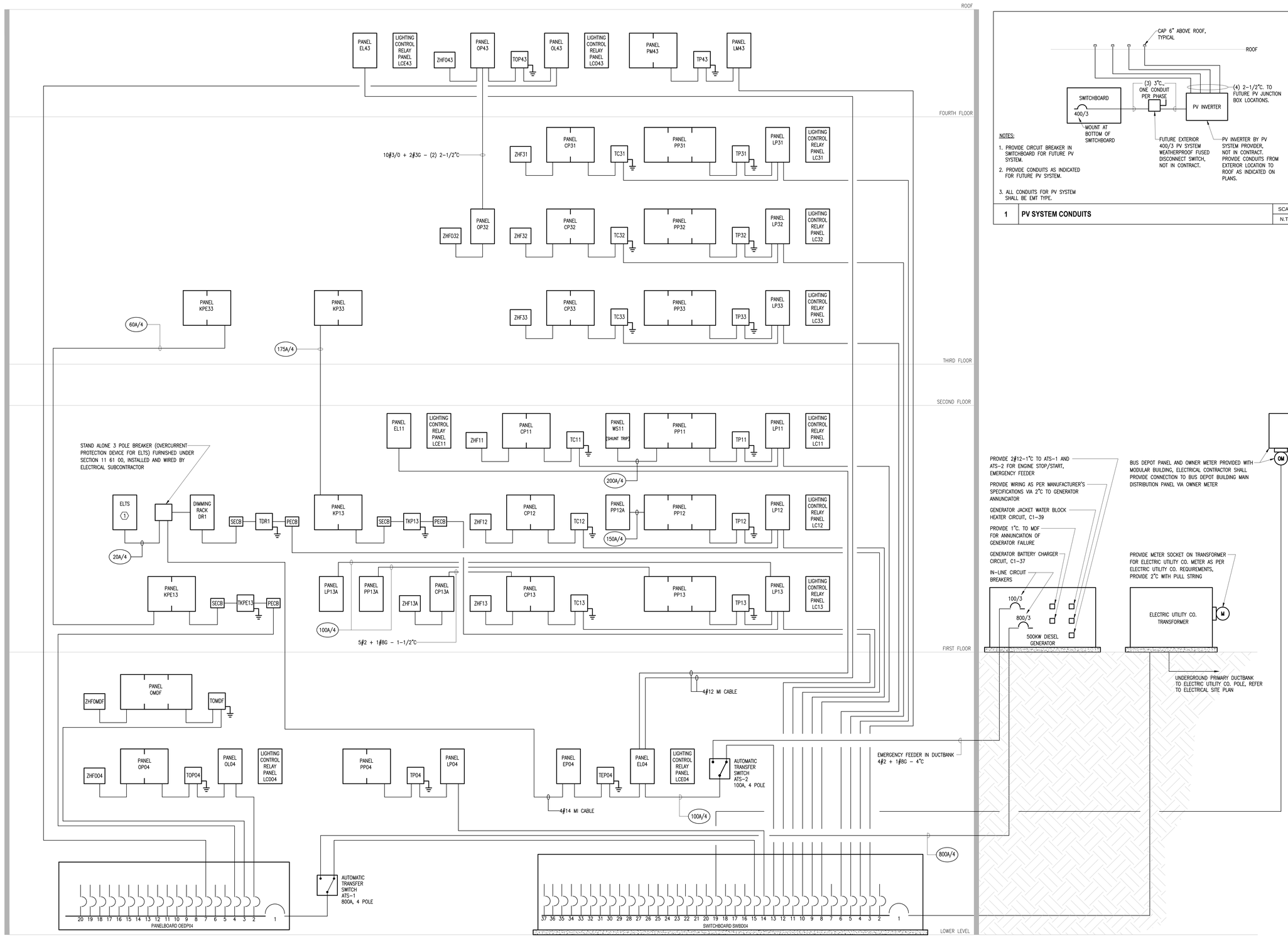
NORTH ARROW

KEYPLAN



DRAWING NAME:
THIRD FLOOR KITCHEN PART PLAN ELETRICAL

DRAWN BY: JGM
REVIEWED BY: RCB
SCALE: AS NOTED
JOB NO.: 1403.00
DATE: July 25, 2016
DRAWING NUMBER: E3.04



POWER RISER DIAGRAM
N.T.S.

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KEYNOTE LEGEND:

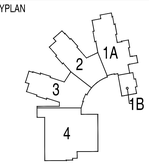
1. ELTS FURNISHED UNDER SECTION 11 61 00, INSTALLED AND WIRED BY ELECTRICAL SUBCONTRACTOR. PROVIDE THREE PHASE SENSING VOLTAGE WIRING FROM ELTS TO DIMMING DACK DR1 VIA STAND ALONE 3 POLE BREAKER (OVERCURRENT PROTECTION DEVICE FOR ELTS). THE FOLLOWING AUDITORIUM EMERGENCY LIGHTING CIRCUITS SHALL RUN FROM DIMMING RACK DR1 TO ELTS AND FROM ELTS TO THE LIGHTING FIXTURES:
   DR1-58
   DR1-59
   DR1-60
   DR1-62
   DR1-63
   DR1-66

90% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

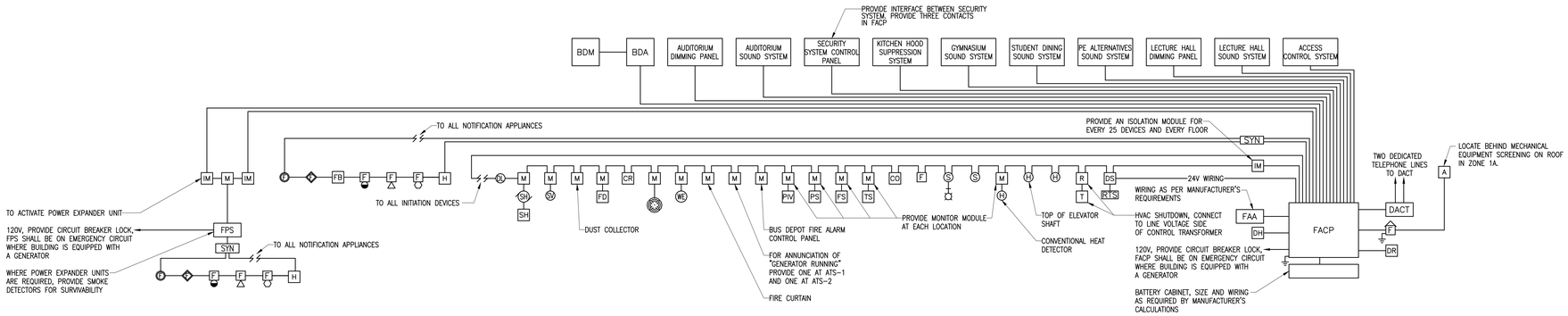
NORTH ARROW

KEYPLAN



DRAWING NAME:
POWER RISER DIAGRAM ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	N.T.S.
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	E4.01



FIRE ALARM RISER NOTES:

1. ALL FIRE ALARM WIRING SHALL BE 2#14 IN CONDUIT, UNLESS OTHERWISE NOTED.

2. THIS FIRE ALARM RISER DIAGRAM IS TYPICAL. REFER TO PLANS FOR QUANTITIES AND LOCATIONS OF DEVICES AND ADDITIONAL REQUIREMENTS. PROVIDE ALL PARTS, MATERIALS, ETC. FOR A FULLY FUNCTIONAL SYSTEM.

3. FIRE ALARM WIRING SHALL BE CONTINUOUS FROM DEVICE TO DEVICE.

4. DEVICE OUTGOING AND RETURN WIRING SHALL RUN IN SEPERATE RACEWAYS.

5. PROVIDE GRAPHIC FRAMED FLOOR PLANS OF EACH FLOOR INDICATING ALL FIRE ALARM INITIATING DEVICES (PULL STATIONS, SMOKE DETECTORS, HEAT DETECTORS, WATER FLOW SWITCH, TAMPER SWITCH, ETC.). INDICATE YOU ARE HERE ON FIRST FLOOR PLAN. ORIENTATE FLOOR PLANS ACCORDINGLY. HIGHLIGHT LOCATIONS OF ALL STAIRS, ELEVATORS, AND SPRINKLER ROOM. INDICATE LOCATION OF MASTER BOX. INDICATE VIA RED DOT FIRE DEPARTMENT HOSE VALVE CONNECTION. INDICATE FIRE PUMPER CONNECTIONS. GRAPHIC FLOOR PLANS SHALL BE MOUNTED ADJACENT TO FIRE ALARM CONTROL PANEL AND ALL ANNUNCIATORS.

6. PROVIDE A DITEK #DTK-2MHLP SURGE PROTECTION DEVICE WHERE INITIATION AND NOTIFICATION LOOP ENTERS AND EXITS EACH BUILDING (FOUR PER BUILDING) WITH ALL BUILDING DEVICES BETWEEN THE SURGE PROTECTION DEVICES.

7. PROVIDE A DITEK #DTK-120HW SURGE PROTECTION DEVICE AHEAD OF FIRE ALARM CONTROL PANEL.

8. INTEGRATE ACCESS CONTROL SYSTEM WITH FACP SUCH THAT A RELAY CLOSURE TRIGGERED BY A LOCKDOWN CONDITION IN THE ACCESS CONTROL SYSTEM SHALL SIGNAL THE FACP TO RELEASE THE MAGNETIC DOOR HOLDERS. PROVIDE A PAIR OF WIRES FROM ONE OF THE SPARE OUTPUTS OF THE NEAREST ACCESS CONTROL PANEL TO THE FACP. PROVIDE A MONITOR MODULE IN THE FACP FOR THE INPUT. THE RELAY CLOSURE IN THE ACCESS CONTROL PANEL SHALL BE PROGRAMMED TO BE CLOSED FOR 10 TO 20 SECONDS. WHEN THE FACP RECEIVES THE ACCESS CONTROL RELAY CLOSURE, THE FACP SHALL RELEASE THE DOOR HOLDER CONTROL MODULE, THEREBY CLOSING ALL DOORS WITH MAGNETIC DOOR HOLDERS. THE FACP SHALL BE PROGRAMMED SUCH THAT IT IS A SILENT SIGNAL, WITHOUT THE FACP NEEDING TO ACKNOLEDGE THE SIGNAL OR HAVE IT SILENCED AFTER EACH OCCURENCE. PROVIDE ALL HARDWARE AND PROGRAMMING AS REQUIRED. TEST FUNCTION UPON COMPLETION OF WORK AND VERIFY THAT ALL DOORS WITH MAGNETIC DOOR HOLDER'S RELEASE. ADJUST THE TIME THE ACCESS CONTROL RELAY SHALL REMAIN CLOSED AS REQUIRED.

FIRE ALARM RISER DIAGRAM

NOT TO SCALE

GENERAL NOTES

1. WHERE A MACHINE ROOMLESS ELEVATOR IS PROVIDED, PROVIDE THE FOLLOWING AS PER CONSTRUCTION DOCUMENTS IN ELEVATOR SHAFT ADJACENT TO ELEVATOR DRIVING MACHINE:

   A. WEATHERPROOF DISCONNECT SWITCH
   B. WEATHERPROOF GFCI RECEPTACLE
   C. WEATHERPROOF LIGHT SWITCH
   D. TWO LIGHTING FIXTURES

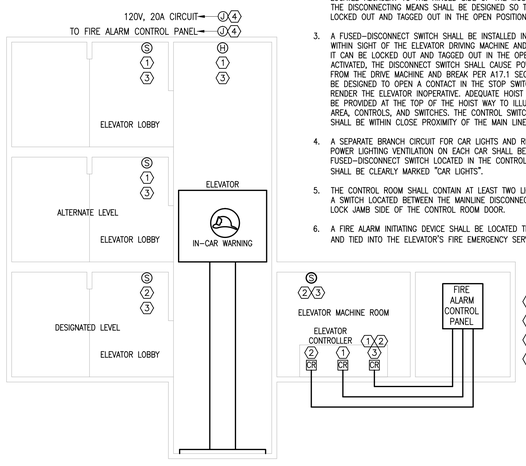
2. MAIN LINE FUSED-DISCONNECT SWITCH MUST BE LOCATED INSIDE THE CONTROL DOOR, BUT NOT MORE THAN 18 INCHES FROM THE JAMB TO THE OPERATING HANDLE AT A HEIGHT OF NOT MORE THAN 66 INCHES ABOVE THE FINISHED FLOOR. IF MORE THAN ONE CONTROLLER IS LOCATED IN A SINGLE CONTROL SPACE, THE SWITCHES SHALL BE GROUPED TOGETHER AS CLOSELY AS POSSIBLE. IN THE EVENT THAT A CONTROL ROOM HAS DOUBLE SWING DOORS, THE DOORS SHALL SWING OUT AND THE SWITCHES SHALL BE LOCATED ADJACENT TO THE HINGED SIDE OF THE MOST ACTIVE DOOR PANEL. THE DISCONNECTING MEANS SHALL BE DESIGNED SO THAT IT CAN BE LOCKED OUT AND TAGGED OUT IN THE OPEN POSITION.

3. A FUSED-DISCONNECT SWITCH SHALL BE INSTALLED IN THE HOIST WAY WITHIN SIGHT OF THE ELEVATOR DRIVING MACHINE AND DESIGNED SO THAT IT CAN BE LOCKED OUT AND TAGGED OUT IN THE OPEN POSITION. WHEN ACTIVATED, THE DISCONNECT SWITCH SHALL CAUSE POWER TO BE REMOVED FROM THE DRIVE MACHINE AND BREAK PER A17.1 SECTION 2.26.2. IT SHALL BE DESIGNED TO OPEN A CONTACT IN THE STOP SWITCH CIRCUIT AND RENDER THE ELEVATOR INOPERATIVE. ADEQUATE HOIST WAY LIGHTING SHALL BE PROVIDED AT THE TOP OF THE HOIST WAY TO ILLUMINATE THE MACHINE AREA, CONTROLS, AND SWITCHES. THE CONTROL SWITCH FOR THE LIGHTING SHALL BE WITHIN CLOSE PROXIMITY OF THE MAIN LINE DISCONNECT.

4. A SEPARATE BRANCH CIRCUIT FOR CAR LIGHTS AND RECEPTACLE AUXILIARY POWER LIGHTING VENTILATION ON EACH CAR SHALL BE SUPPLIED WITH A FUSED-DISCONNECT SWITCH LOCATED IN THE CONTROL SPACE. THE SWITCH SHALL BE CLEARLY MARKED "CAR LIGHTS".

5. THE CONTROL ROOM SHALL CONTAIN AT LEAST TWO LIGHTING FIXTURES WITH A SWITCH LOCATED BETWEEN THE MAINLINE DISCONNECT SWITCH AND THE LOCK JAMB SIDE OF THE CONTROL ROOM DOOR.

6. A FIRE ALARM INITIATING DEVICE SHALL BE LOCATED THE CONTROL ROOM AND TIED INTO THE ELEVATOR'S FIRE EMERGENCY SERVICE.



KEYED NOTES:

1. RECALL TO DESIGNATED LEVEL
2. RECALL TO ALTERNATE LEVEL
3. ACTIVATE IN-CAR WARNING
4. ELEVATOR HOISTWAY DAMPER

1	ELEVATOR DETAIL - TYPICAL FOR EACH ELEVATOR	SCALE: N.T.S.

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BEVERLY MIDDLE SCHOOL

CABOT STREET
BEVERLY, MA 01915

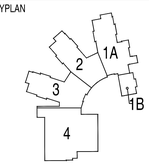
GENERAL NOTE LEGEND:

90% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

NORTH ARROW

KEYPLAN



DRAWING NAME:

FIRE ALARM RISER DIAGRAM ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	N.T.S.
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	E4.02

LIGHTING FIXTURE SCHEDULE

TYPICAL LIGHTING NOTES
1. MOUNTING ABBREVIATIONS, "G" = RECESSED IN CEILING GRID, "F" = RECESSED IN CEILING, "S" = SURFACE, "W" = WALL, "P" = PENDANT, "GR" = GROUND, "U" = UNIVERSAL.
2. LIGHTING FIXTURES SHALL BE FURNISHED COMPLETE WITH ALL HARDWARE, LAMPS, HANGERS, ACCESSORIES, ETC. FOR A COMPLETE AND PROPER INSTALLATION. VERIFY ROOM SURFACE CONSTRUCTION/FINISH TYPES PRIOR TO THE RELEASE OF ANY LIGHTING FIXTURES TO ENSURE PROPER MOUNTING PROVISIONS AND FIXTURES FITTINGS. REFER TO ARCHITECTURAL DRAWINGS/ELEVATIONS.
3. VERIFY ALL LIGHTING FIXTURE MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS/ELEVATIONS PRIOR TO THE START OF ROUGHING. PENDANT FIXTURES SHALL BE MINIMUM 19" FROM TOP OF FIXTURE TO CEILING UNLESS OTHERWISE NOTED.
4. ALL LAMPS, BALLASTS, LED SOURCES, DRIVERS, AND CONTROLS SHALL MEET THE LATEST UTILITY CO. INCENTIVE REQUIREMENTS. REFER TO THE LATEST PROGRAM REQUIREMENTS DOCUMENTATION AND COORDINATE WITH UTILITY CO. TO ENSURE COMPLIANCE.
5. EXIT SIGNS SHALL BE TYPICALLY MOUNTED ON CEILINGS WHERE VISIBLE OR ON WALL WHERE CEILING MOUNTING IS NOT PRACTICAL. PRIOR TO ROUGHING COORDINATE WITH ARCHITECTURAL DRAWINGS/ELEVATIONS FOR SPECIFIC MOUNTING DIRECTION AND FOR LOCATION.
6. LIGHTING FIXTURES TO BE CONTROLLED BY DAYLIGHT HARVESTING SYSTEM SHALL BE PROVIDED WITH DIMMING DRIVERS.
7. WHEN SUBMITTING TO ENGINEER FOR REVIEW THE LIGHTING FIXTURE SUBMITTALS SHALL CONSIST OF THE FOLLOWING: LIGHTING FIXTURE CUT SHEET, LIGHTING FIXTURE BALLAST/DRIVER CUT SHEET, AND LIGHTING FIXTURE LAMP/LED CUT SHEET FOR EACH FIXTURE. GROUPED CUT SHEETS WILL NOT BE ALLOWED. WHEN SUBMITTING ON LED PRODUCTS PROVIDE LIGHTING FACTS, LM-79, AND LM-80 TEST REPORTS FOR REVIEW.
8. THE MANUFACTURER'S AND CATALOG NUMBERS IDENTIFIED IN THIS LIGHTING FIXTURE SCHEDULE ARE INTENDED TO ESTABLISH A GENERAL LEVEL OF QUALITY, CONFIGURATION, MATERIALS, AND APPEARANCE REQUIRED. THIS IS NOT A PROPRIETARY SPECIFICATION AND IT SHOULD BE NOTED THAT "OR EQUAL" APPLIES TO ALL LIGHTING FIXTURES DENOTED HEREIN. IT IS UNDERSTOOD THAT ALL MANUFACTURER'S WILL HAVE MINOR VARIATIONS IN CONFIGURATION, APPEARANCE, AND PRODUCT SPECIFICATIONS AND SUCH MINOR VARIATIONS SHALL NOT ELIMINATE SUCH MANUFACTURER'S AS AN APPROVED EQUAL.
9. CONNECT EMERGENCY BATTERY UNITS AND EXIT SIGNS WITH BACK-UP BATTERY TO NEAREST UNSWITCHED LIGHTING CIRCUIT FOR CHARGING OF EMERGENCY BATTERY UNITS AND EXIT SIGNS WITH BATTERY BACKUP.
10. IN GENERAL INTERIOR LIGHTING COLOR TEMPERATURE SHALL BE 3000 TO 3500 DEGREES KELVIN, WHILE EXTERIOR LIGHTING SHALL BE 4000 DEGREES KELVIN.
11. PROVIDE TWO ADDITIONAL WIRES TO DIMMING RACK IN ADDITION TO POWER WIRING WHERE 0-10 VOLT DIMMING DRIVERS ARE SPECIFIED FOR CONTROL.
12. AS REQUIRED BY LEED VERSION 4, LIGHTING FIXTURES SHALL HAVE A MINIMUM COLOR RENDERING INDEX (CRI) OF 80.
13. AS REQUIRED BY LEED VERSION 4, LIGHTING FIXTURES SHALL HAVE A MINIMUM RATED LIFE (OR L70 FOR LED SOURCES) OF AT LEAST 24,000 HOURS.

TYPE	MANUFACTURER	CATALOG NUMBER	VOLTAGE	MOUNTING	LAMPS			DESCRIPTION/REMARKS	APPROVED ALTERNATE MANUFACTURERS
					QUANTITY	WATTAGE	TYPE		
A1	FINELITE	S12LED-ID-DCO-4'-3E-S-S-3500K-MC-AC-FE-XX	277	P	–	22.8	LED	4' CURVED LINEAR, 3E ENGINE, INDIRECT/DIRECT, CONTROLLED DIMMING FOR UPLIGHT AND DOWNLIGHT SEPARATELY. PROVIDE WITH 0-10 VOLT DIMMING DRIVERS.	PHILLIPS LITHONIA
A2	FINELITE	S12LED-ID-DCO-6'-3E-S-S-3500K-MC-AC-FE-XX	277	P	–	34.2	LED	6' CURVED LINEAR, 3E ENGINE, INDIRECT/DIRECT, CONTROLLED DIMMING FOR UPLIGHT AND DOWNLIGHT SEPARATELY. PROVIDE WITH 0-10 VOLT DIMMING DRIVERS.	PHILLIPS LITHONIA
A3	FINELITE	S12LED-ID-DCO-8'-3E-S-S-3500K-MC-AC-FE-XX	277	P	–	45.6	LED	8' CURVED LINEAR, 3E ENGINE, INDIRECT/DIRECT, CONTROLLED DIMMING FOR UPLIGHT AND DOWNLIGHT SEPARATELY. PROVIDE WITH 0-10 VOLT DIMMING DRIVERS.	PHILLIPS LITHONIA
A4	FINELITE	S12LED-ID-DCO-4'-3E-B-S-3500K-MC-AC-FE-XX	277	P	–	26.8	LED	4' CURVED LINEAR, 3E ENGINE, INDIRECT/DIRECT, CONTROLLED DIMMING FOR UPLIGHT AND DOWNLIGHT SEPARATELY. PROVIDE WITH 0-10 VOLT DIMMING DRIVERS.	PHILLIPS LITHONIA
A5	FINELITE	S12LED-ID-DCO-8'-3E-B-S-3500K-MC-AC-FE-XX	277	P	–	53.6	LED	8' CURVED LINEAR, 3E ENGINE, INDIRECT/DIRECT, CONTROLLED DIMMING FOR UPLIGHT AND DOWNLIGHT SEPARATELY. PROVIDE WITH 0-10 VOLT DIMMING DRIVERS.	PHILLIPS LITHONIA
B1	ELITE	H-LED2-3-500L-DIM10-MVOLT-LED2-1362-500L-MD-35K-CH	277	R	–	8	LED	3" OPEN 500 LUMENS, MEDIUM DISTRIBUTION, DOWNLIGHT, WITH CLEAR SEMI-SPECULAR REFLECTOR, AND 0-10 VOLT DIMMIING DRIVER.	PHILLIPS LITHONIA
B2	ELITE	HH6-LED-2000L-DIM10-277V-MD-35K-HH6-6501-CL-WH	277	R	–	26.2	LED	6" OPEN 2000 LUMENS, MEDIUM DISTRIBUTION, DOWNLIGHT, WITH CLEAR SEMI-SPECULAR REFLECTOR, AND 0-10 VOLT DIMMIING DRIVER, WET LOCATION RATED.	PHILLIPS LITHONIA
B3	ELITE	HH6-LED-3000L-DIM10-277V-MD-35K-HH6-6501-CL-WH	277	R	–	41.3	LED	6" OPEN 3000 LUMENS, MEDIUM DISTRIBUTION, DOWNLIGHT, WITH CLEAR SEMI-SPECULAR REFLECTOR, AND 0-10 VOLT DIMMIING DRIVER, WET LOCATION RATED.	PHILLIPS LITHONIA
B4	ELITE	HH6-LED-2000L-DIM10-277V-WD-35K-HH6-6501-CL-WH	277	R	–	26.2	LED	6" OPEN 2000 LUMENS, WIDE DISTRIBUTION, DOWNLIGHT, WITH CLEAR SEMI-SPECULAR REFLECTOR, AND 0-10 VOLT DIMMIING DRIVER, WET LOCATION RATED.	PHILLIPS LITHONIA
C1	FINELITE	HP2R-4'-HO-3500K-F-277-SC-XX	277	R	–	37	LED	2"X4', FLANGED, 521 LUMENS PER FOOT, FLUSH DIFFUSER LIGHTING FIXTURE, WITH 0-10V DIMMING DRIVER.	PHILLIPS LITHONIA
C2	FINELITE	HP2R-6'-HO-3500K-F-277-SC-XX	277	R	–	55	LED	2"X6', FLANGED, 521 LUMENS PER FOOT, FLUSH DIFFUSER LIGHTING FIXTURE, WITH 0-10V DIMMING DRIVER.	PHILLIPS LITHONIA
C3	FINELITE	HP2R-8'-HO-3500K-F-277-SC-XX	277	R	–	73	LED	2"X8', FLANGED, 521 LUMENS PER FOOT, FLUSH DIFFUSER LIGHTING FIXTURE, WITH 0-10V DIMMING DRIVER.	PHILLIPS LITHONIA
D	WILLIAMS	50G-S14-L45/835-R-AF12125-DIM-UNV	277	R	–	47	LED	1'X4', RECESSED, PRISMATIC LENS LIGHTING FIXTURE, WITH REGRESSED ALUMINUM DOOR, WITH 0-10 VOLT DIMMING DRIVER.	PHILLIPS LITHONIA
E	FINELITE	HP4D-8'-HO-3500K-F-120-SC-XX	120	P	–	57	LED	4"X8', LINEAR DIRECT, 521 LUMENS PER FOOT, FLUSH DIFFUSER LIGHTING FIXTURE, WITH 0-10 VOLT DIMMING DRIVER.	PHILLIPS LITHONIA
F	MERCURY	LW15-4-3800-35K-HTA-UNI	277	S	–	39	LED	1'X4', LOW-PROFILE, WRAPAROUND, ACRYLIC PRISMATIC LENS LIGHTING FIXTURE, SURFACE MOUNTED OR CHAIN HUNG.	PHILLIPS LITHONIA
G	EUREKA	4800-24-LED-48-30-277V-DV-RDP-AC-RC-CBA-3981C	277	P	–	48	LED	24" DIAMETER LUMINOUS RING, WITH AIRCRAFT MOUNTING AND CLEAR FIELD ADJUSTABLE CABLE, JUNCTION BOX FOR RECESSED DRIVER OPTION, AND 0-10 VOLT RECESSED DIMMING DRIVER. COLOR/FINISH BY ARCHITECT.	PHILLIPS LITHONIA
H	ACDC LIGHTING	ACDC-1035-30-50R	277	P	–	3.7	LED	RECESSED LED 3000 DEGREE KELVIN, 50 DEGEREE OPTICS DISPLAY CASE LIGHTING FIXTURE. MOUNT 18" ON CENTER. PROVIDE ALL SUGGESTED PARTS/ACCESSORIES AS REQUIRED BY MANUFACTURER. CONCEAL POWER SUPPLY AND DRIVER IN DISPLAY CASE. COLOR/FINISH BY ARCHITECT.	PHILLIPS LITHONIA
J1	INTENSE	SS6G2C-1500-358-D10V1-B-C-C144	277	P	–	19	LED	6" OPEN 1500 LUMENS, STANDARD DISTRIBUTION, CYLINDER, WITH PENDANT, CLEAR SEMI-SPECULAR REFLECTOR, 0-10 VOLT DIMMING DRIVER. COLOR/FINISH BY ARCHITECT.	PHILLIPS LITHONIA
J2	CREE	ESA-C10-P-28-D-WD-U-525-35K	277	P	–	53	LED	10" OPEN 1400 LUMENS, STANDARD DISTRIBUTION, CYLINDER, WITH PENDANT, CLEAR SEMI-SPECULAR REFLECTOR, 0-10 VOLT DIMMING DRIVER. COLOR/FINISH BY ARCHITECT.	PHILLIPS LITHONIA
K	BETA CALCO	42-1001X3	277	P	3	50	LED	CLUSTER OF THREE 8" DIAMETER x 3' TALL, PENDANT LIGHT FIXTURES, WITH 0-10V DIMMING DRIVER.	PHILLIPS LITHONIA
L	WILLIAMS	AT1-22-L40/835-D-DIM-UNV	277	R	–	43	LED	2'X2', RECESSED, GRID, VOLUMETRIC LIGHTING FIXTURE, WITH 0-10 VOLT DIMMING DRIVER.	PHILLIPS LITHONIA
L1	WILLIAMS	PTS-22-L44/835-RA-DIM-277	277	S	–	41	LED	2'X2', SURFACE MOUNTED, VOLUMETRIC LIGHTING FIXTURE, WITH 0-10 VOLT DIMMING DRIVER.	PHILLIPS LITHONIA
N	WILLIAMS	50G-S24-L60/835-F-AF12125-DIM-UNV	277	R	–	56	LED	2'X4', RECESSED, GRID, LIGHTING FIXTURE, FLAT ALUMINUM DOOR AND FROSTED ACRYLIC PATTERN #12 .125" THICK LENS, AND 0-10 VOLT DIMMING DRIVER.	PHILLIPS LITHONIA
P1	FINELITE	HP4R-8'-HO-3500K-F-120-SC-XX	120	R	–	76	LED	4"X8', 521 LUMENS PER FOOT, FLUSH DIFFUSER LIGHTING FIXTURE, WITH AND 0-10 VOLT DIMMING DRIVER.	PHILLIPS LITHONIA
P2	FINELITE	HP4R-12'-HO-3500K-F-120-SC-XX	120	R	–	113	LED	4"X12', 521 LUMENS PER FOOT, FLUSH DIFFUSER LIGHTING FIXTURE, WITH AND 0-10 VOLT DIMMING DRIVER.	PHILLIPS LITHONIA
P3	FINELITE	HP4R-16'-HO-3500K-F-120-SC-XX	120	R	–	151	LED	4"X16', 521 LUMENS PER FOOT, FLUSH DIFFUSER LIGHTING FIXTURE, WITH AND 0-10 VOLT DIMMING DRIVER.	PHILLIPS LITHONIA
Q	WILLIAMS	50G-S24-L60/835-F-DG-MYLAR-AF12125-DIM-UNV	277	R	–	56	LED	2'X4', RECESSED, GRID, LIGHTING FIXTURE, WITH DOUBLE GASKETED FLAT ALUMINUM DOOR, AND FROSTED ACRYLIC PATTERN #12 .125" THICK LENS, AND 0-10 VOLT DIMMING DRIVER.	PHILLIPS LITHONIA
R	CREE	CXBA16NCXBAUVM40K8UL10VWGASC10	277	P	–	160	LED	16" DIAMETER ALUMINUM TRADITIONAL HIGH BAY, WITH WIREGUARD, 10' SAFETY CABLE, AND 0-10 VOLT DIMMING DRIVER.	PHILLIPS LITHONIA
S	ACCLAIM	FTB-123-AADN	277	S	–	3.75W/FT	LED	LED COVE LIGHTING FIXTURE, PROVIDE FIXTURES INTERCONNECTED END TO END TO FILL COVE AS SHOWN ON DRAWINGS. PROVIDE WITH 60 DEGREE X 30 DEGREE BEAM ANGLE OPTICS, AND 0-10 VOLT DIMMING DRIVER.	PHILLIPS LITHONIA
T	CREE	E.VT3L141NG	120	S	–	14	LED	WEATHERPROOF, JELLY JAR, LED, DIE CASE ALUMINUM HOUSING, VAPORTIGHT LIGHTING FIXTURE WITH FROSTED GLASS AND WIREGUARD.	PHILLIPS LITHONIA
U	WILLIAMS	AT1-24-L40/835-D-DIM-UNV	277	R	–	41	LED	2'X4', RECESSED, GRID, VOLUMETRIC LIGHTING FIXTURE, WITH 0-10 VOLT DIMMING DRIVER.	PHILLIPS LITHONIA
UC	DAYBRITE	LINCS100L19277RSWCBA	277	S	–	6	LED	1" X 19" EXTRUDED ALUMINUM TASK LIGHT WITH INTEGRAL DRIVER AND ROCKER SWITCH.	PHILLIPS LITHONIA
V1	FINELITE	HP2D-4'-B-3500K-F-277-SC-XX	277	P	–	18.3	LED	2"X4', LINEAR DIRECT, 414 LUMENS PER FOOT, FLUSH DIFFUSER LIGHTING FIXTURE, WITH 0-10 VOLT DIMMING DRIVER.	PHILLIPS LITHONIA
V2	FINELITE	HP2D-6'-B-3500K-F-277-SC-XX	277	P	–	27.6	LED	2"X6', LINEAR DIRECT, 414 LUMENS PER FOOT, FLUSH DIFFUSER LIGHTING FIXTURE, WITH 0-10 VOLT DIMMING DRIVER.	PHILLIPS LITHONIA
V3	FINELITE	HP2D-8'-B-3500K-F-277-SC-XX	277	P	–	36.8	LED	2"X8', LINEAR DIRECT, 414 LUMENS PER FOOT, FLUSH DIFFUSER LIGHTING FIXTURE, WITH 0-10 VOLT DIMMING DRIVER.	PHILLIPS LITHONIA
V4	FINELITE	HP2D-4'-H-3500K-F-277-SC-XX	277	P	–	28.3	LED	2"X4', LINEAR DIRECT, 625 LUMENS PER FOOT, FLUSH DIFFUSER LIGHTING FIXTURE, WITH 0-10 VOLT DIMMING DRIVER.	PHILLIPS LITHONIA
V5	FINELITE	HP2D-6'-V-3500K-F-277-SC-XX	277	P	–	55.2	LED	2"X6', LINEAR DIRECT, 804 LUMENS PER FOOT, FLUSH DIFFUSER	PHILLIPS

TYPICAL LIGHTING NOTES
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4. ALL LAMPS, BALLASTS, LED SOURCES, DRIVERS, AND CONTROLS SHALL MEET THE LATEST UTILITY CO. INCENTIVE REQUIREMENTS. REFER TO THE LATEST PROGRAM REQUIREMENTS DOCUMENTATION AND COORDINATE WITH UTILITY CO. TO ENSURE COMPLIANCE.
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6. LIGHTING FIXTURES TO BE CONTROLLED BY DAYLIGHT HARVESTING SYSTEM SHALL BE PROVIDED WITH DIMMING DRIVERS.
7. WHEN SUBMITTING TO ENGINEER FOR REVIEW THE LIGHTING FIXTURE SUBMITTALS SHALL CONSIST OF THE FOLLOWING: LIGHTING FIXTURE CUT SHEET, LIGHTING FIXTURE BALLAST/DRIVER CUT SHEET, AND LIGHTING FIXTURE LAMP/LED CUT SHEET FOR EACH FIXTURE. GROUPED CUT SHEETS WILL NOT BE ALLOWED. WHEN SUBMITTING ON LED PRODUCTS PROVIDE LIGHTING FACTS, LM-79, AND LM-80 TEST REPORTS FOR REVIEW.
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9. CONNECT EMERGENCY BATTERY UNITS AND EXIT SIGNS WITH BACK-UP BATTERY TO NEAREST UNSWITCHED LIGHTING CIRCUIT FOR CHARGING OF EMERGENCY BATTERY UNITS AND EXIT SIGNS WITH BATTERY BACKUP.
10. IN GENERAL INTERIOR LIGHTING COLOR TEMPERATURE SHALL BE 3000 TO 3500 DEGREES KELVIN, WHILE EXTERIOR LIGHTING SHALL BE 4000 DEGREES KELVIN.
11. PROVIDE TWO ADDITIONAL WIRES TO DIMMING RACK IN ADDITION TO POWER WIRING WHERE 0-10 VOLT DIMMING DRIVERS ARE SPECIFIED FOR CONTROL.
12. AS REQUIRED BY LEED VERSION 4, LIGHTING FIXTURES SHALL HAVE A MINIMUM COLOR RENDERING INDEX (CRI) OF 80.
13. AS REQUIRED BY LEED VERSION 4, LIGHTING FIXTURES SHALL HAVE A MINIMUM RATED LIFE (OR L70 FOR LED SOURCES) OF AT LEAST 24,000 HOURS.

TYPE	MANUFACTURER	CATALOG NUMBER	VOLTAGE	MOUNTING	LAMPS			DESCRIPTION/REMARKS	APPROVED ALTERNATE MANUFACTURERS
					QUANTITY	WATTAGE	TYPE		
V6	FINELITE	HP2D-6'-H-3500K-F-277-SC-XX	277	P	–	42.6	LED	2"X6', LINEAR DIRECT, 625 LUMENS PER FOOT, FLUSH DIFFUSER LIGHTING FIXTURE, WITH 0-10 VOLT DIMMING DRIVER.	PHILLIPS LITHONIA
W	EUREKA	74540-93-LED.44.30-277-DV-AC-SC-WH	277	P	–	44	LED	2.25" ROUND DIAMETER, LINEAR, LED, PENDANT FIXTURE	PHILLIPS LITHONIA
Z1T	INTENSE LIGHTING	IPSXCBA-IPSKXXCBA-IPC505CBA-IPS35CBA	120	P	–	–	–	RIGID STEM MOUNTED TWO CIRCUIT TRACK, REFER TO FLOOR PLANS FOR TRACK LENGTHS. ALL REQUIRED ACCESSORIES INCLUDING STEMS, CANOPIES, STEM SUSPENSION POINT, ETC. SHALL BE PROVIDED TO MAKE COMPLETE INSTALLATION. FACTORY DRAWINGS SHALL BE SUBMITTED FOR APPROVAL FOR EACH TRACK LOCATION, COLOR/FINISH BY ARCHITECT.	PHILLIPS LITHONIA
Z1A	INTENSE LIGHTING	MBM-L4-35-DIM-CBA-16-PS	120	P	–	31	LED	1970 LUMEN, 16 DEGREE NARROW SPOT, REVERSE PHASE DIMMING, TRACK LIGHT HEAD TO BE INSTALLED ON TYPE Z1T TRACK, REFER TO FLOOR PLANS FOR HEAD QUANTITIES AND LOCATIONS, ALL REQUIRED ACCESSORIES SHALL BE PROVIDED TO MAKE COMPLETE INSTALLATION, COLOR/FINISH BY ARCHITECT, LENGTH OF RIGID STEMS SHALL BE PROVIDED FOR TRACK TO BE MOUNTED AT 10'-0".	PHILLIPS LITHONIA
Z1B	INTENSE LIGHTING	MBM-L4-35-DIM-CBA-32-PS	120	P	–	31	LED	1970 LUMEN, 32 DEGREE FLOOD, REVERSE PHASE DIMMING, TRACK LIGHT HEAD TO BE INSTALLED ON TYPE Z1T TRACK, REFER TO FLOOR PLANS FOR HEAD QUANTITIES AND LOCATIONS, ALL REQUIRED ACCESSORIES SHALL BE PROVIDED TO MAKE COMPLETE INSTALLATION, COLOR/FINISH BY ARCHITECT, LENGTH OF RIGID STEMS SHALL BE PROVIDED FOR TRACK TO BE MOUNTED AT 10'-0".	PHILLIPS LITHONIA
Z1C	INTENSE LIGHTING	MBM-L4-35-DIM-CBA-50-PS	120	P	–	31	LED	1970 LUMEN, 50 DEGREE WIDE FLOOD, REVERSE PHASE DIMMING, TRACK LIGHT HEAD TO BE INSTALLED ON TYPE Z1T TRACK, REFER TO FLOOR PLANS FOR HEAD QUANTITIES AND LOCATIONS, ALL REQUIRED ACCESSORIES SHALL BE PROVIDED TO MAKE COMPLETE INSTALLATION, COLOR/FINISH BY ARCHITECT, LENGTH OF RIGID STEMS SHALL BE PROVIDED FOR TRACK TO BE MOUNTED AT 10'-0".	PHILLIPS LITHONIA
Z2T	INTENSE LIGHTING	IPSXB-IPSKXXB-IPC505B-IPS35B	120	P	–	–	–	RIGID STEM MOUNTED TWO CIRCUIT TRACK, REFER TO FLOOR PLANS FOR TRACK LENGTHS. ALL REQUIRED ACCESSORIES INCLUDING STEMS, CANOPIES, STEM SUSPENSION POINT, ETC. SHALL BE PROVIDED TO MAKE COMPLETE INSTALLATION. FACTORY DRAWINGS SHALL BE SUBMITTED FOR APPROVAL FOR EACH TRACK LOCATION, COLOR SHALL BE BLACK.	PHILLIPS LITHONIA
Z2	INTENSE LIGHTING	MBM-L4-35-DIM-B-50-PS	120	P	–	31	LED	1970 LUMEN, 50 DEGREE WIDE FLOOD, REVERSE PHASE DIMMING, TRACK LIGHT HEAD TO BE INSTALLED ON TYPE Z2T TRACK, REFER TO FLOOR PLANS FOR HEAD QUANTITIES AND LOCATIONS, ALL REQUIRED ACCESSORIES SHALL BE PROVIDED TO MAKE COMPLETE INSTALLATION, COLOR SHALL BE BLACK, LENGTH OF RIGID STEMS SHALL BE PROVIDED FOR TRACK TO BE MOUNTED AT 10'-0".	PHILLIPS LITHONIA
AA	BETACALCO	506700-35/A-CBA-BT	277	P	–	95	LED	28" DIAMETER DIRECT PENDANT, DIE CAST ALUMINUM AND STEEL BODY LIGHT FIXTURE, WITH BEZEL TRIM, SUSPENDED WITH ADJUSTABLE STAINLESS STEEL AIRCRAFT CABLE. PROVIDE ACCESSORIES FOR A COMPLETE INSTALLATION, COLOR/FINISH BY ARCHITECT.	PHILLIPS LITHONIA
BB1	BIRCHWOOD	HAI-LED-225-HLO-35-CR11'-MW-FW-277-EB-RAS-4CP-R-MW-12	277	W	–	65	LED	11'-0", 2.25" DIAMETER, ROUND, 698 LUMENS PER FOOT, EXTRUDED ALUMINUM DIRECT WALL MOUNTED LIGHT FIXTURE, WITH ROTATIONAL 12" ARM, FROSTED WHITE LENS, AND ELECTRONIC BALLAST. PROVIDE COVER PLATE, KNUCKLE, TRIM RING, AND ALL ACCESSORIES FOR A COMPLETE INSTALLATION, COLOR/FINISH SHALL BE MATTE WHITE.	PHILLIPS LITHONIA
BB2	BIRCHWOOD	HAI-LED-225-HLO-35-CR15'-MW-FW-277-EB-RAS-4CP-R-MW-12	277	W	–	89	LED	15'-0", 2.25" DIAMETER, ROUND, 698 LUMENS PER FOOT, EXTRUDED ALUMINUM DIRECT WALL MOUNTED LIGHT FIXTURE, WITH ROTATIONAL 12" ARM, FROSTED WHITE LENS, AND ELECTRONIC BALLAST. PROVIDE COVER PLATE, KNUCKLE, TRIM RING, AND ALL ACCESSORIES FOR A COMPLETE INSTALLATION, COLOR/FINISH SHALL BE MATTE WHITE.	PHILLIPS LITHONIA
BB3	BIRCHWOOD	HAI-LED-225-HLO-35-CR23'-MW-FW-277-EB-RAS-4CP-R-MW-12	277	W	–	136	LED	23'-0", 2.25" DIAMETER, ROUND, 698 LUMENS PER FOOT, EXTRUDED ALUMINUM DIRECT WALL MOUNTED LIGHT FIXTURE, WITH ROTATIONAL 12" ARM, FROSTED WHITE LENS, AND ELECTRONIC BALLAST. PROVIDE COVER PLATE, KNUCKLE, TRIM RING, AND ALL ACCESSORIES FOR A COMPLETE INSTALLATION, COLOR/FINISH SHALL BE MATTE WHITE.	PHILLIPS LITHONIA
BB4	BIRCHWOOD	HAI-LED-225-HLO-35-CR37'-MW-FW-277-EB-RAS-4CP-R-MW-12	277	W	–	219	LED	37'-0", 2.25" DIAMETER, ROUND, 698 LUMENS PER FOOT, EXTRUDED ALUMINUM DIRECT WALL MOUNTED LIGHT FIXTURE, WITH ROTATIONAL 12" ARM, FROSTED WHITE LENS, AND ELECTRONIC BALLAST. PROVIDE COVER PLATE, KNUCKLE, TRIM RING, AND ALL ACCESSORIES FOR A COMPLETE INSTALLATION, COLOR/FINISH SHALL BE MATTE WHITE.	PHILLIPS LITHONIA
BB5	BIRCHWOOD	HAI-LED-225-HLO-35-CR38'-MW-FW-277-EB-RAS-4CP-R-MW-12	277	W	–	225	LED	38'-0", 2.25" DIAMETER, ROUND, 698 LUMENS PER FOOT, EXTRUDED ALUMINUM DIRECT WALL MOUNTED LIGHT FIXTURE, WITH ROTATIONAL 12" ARM, FROSTED WHITE LENS, AND ELECTRONIC BALLAST. PROVIDE COVER PLATE, KNUCKLE, TRIM RING, AND ALL ACCESSORIES FOR A COMPLETE INSTALLATION, COLOR/FINISH SHALL BE MATTE WHITE.	PHILLIPS LITHONIA
CC1	BIRCHWOOD	HAI-LED-225-HLO-35-6'-MW-FW-277-EB-RAS-4CP-R-MW-6	277	W	–	36	LED	6'-0", 2.25" DIAMETER, ROUND, 698 LUMENS PER FOOT, EXTRUDED ALUMINUM DIRECT WALL MOUNTED LIGHT FIXTURE, WITH ROTATIONAL 6" ARM, FROSTED WHITE LENS, AND ELECTRONIC BALLAST. PROVIDE COVER PLATE, KNUCKLE, TRIM RING, AND ALL ACCESSORIES FOR A COMPLETE INSTALLATION, COLOR/FINISH SHALL BE MATTE WHITE.	PHILLIPS LITHONIA
CC2	BIRCHWOOD	HAI-LED-225-HLO-35-CR12'-MW-FW-277-EB-RAS-4CP-R-MW-6	277	W	–	72	LED	12'-0", 2.25" DIAMETER, ROUND, 698 LUMENS PER FOOT, EXTRUDED ALUMINUM DIRECT WALL MOUNTED LIGHT FIXTURE, WITH ROTATIONAL 6" ARM, FROSTED WHITE LENS, AND ELECTRONIC BALLAST. PROVIDE COVER PLATE, KNUCKLE, TRIM RING, AND ALL ACCESSORIES FOR A COMPLETE INSTALLATION, COLOR/FINISH SHALL BE MATTE WHITE.	PHILLIPS LITHONIA
CC3	BIRCHWOOD	HAI-LED-225-HLO-35-CR22'-MW-FW-277-EB-RAS-4CP-R-MW-6	277	W	–	130	LED	22'-0", 2.25" DIAMETER, ROUND, 698 LUMENS PER FOOT, EXTRUDED ALUMINUM DIRECT WALL MOUNTED LIGHT FIXTURE, WITH ROTATIONAL 6" ARM, FROSTED WHITE LENS, AND ELECTRONIC BALLAST. PROVIDE COVER PLATE, KNUCKLE, TRIM RING, AND ALL ACCESSORIES FOR A COMPLETE INSTALLATION, COLOR/FINISH SHALL BE MATTE WHITE.	PHILLIPS LITHONIA
CC4	BIRCHWOOD	HAI-LED-225-HLO-35-CR26'-MW-FW-277-EB-RAS-4CP-R-MW-6	277	W	–	154	LED	26'-0", 2.25" DIAMETER, ROUND, 698 LUMENS PER FOOT, EXTRUDED ALUMINUM DIRECT WALL MOUNTED LIGHT FIXTURE, WITH ROTATIONAL 6" ARM, FROSTED WHITE LENS, AND ELECTRONIC BALLAST. PROVIDE COVER PLATE, KNUCKLE, TRIM RING, AND ALL ACCESSORIES FOR A COMPLETE INSTALLATION, COLOR/FINISH SHALL BE MATTE WHITE.	PHILLIPS LITHONIA
DD	BETA CALCO	501013-WD-BL	277	S	–	26	LED	6" DIAMETER LIGHT FIXTURE, 1990 LUMENS, WIDE DISTRIBUTION, WITH CLEAR SPECULAR REFLECTOR, AND 0-10 VOLT DIMMING DRIVER.	PHILLIPS LITHONIA
EE	BIRCHWOOD	HAI-LED-225-SLO-35-28'-CBA-FW-277-D1-CSS-DR-R2-36-CBA-6	277	P	–	82	LED	28'-0", 2.25" DIAMETER, ROUND, 349 LUMENS PER FOOT, EXTRUDED ALUMINUM DIRECT PENDANT MOUNTED LIGHT FIXTURE, WITH FROSTED WHITE LENS, AND 0-10 VOLT DIMMING DRIVER. PROVIDE 36" ADJUSTABLE AIRCRAFT CABLE, POWER CORD, KNUCKLE, CANOPY, AND ALL ACCESSORIES FOR A COMPLETE INSTALLATION, COLOR/FINISH BY ARCHITECT.	PHILLIPS LITHONIA
FF	EUREKA	12640-2X2-169X-LED.11.30.40-277V-DV-BLK-BLK-BLK-19640-2X2	277	R	–	44	LED	10" SQUARE, 2 X 2 DIRECTIONAL LIGHT HEADS, BLACK STUDIO LIGHTING FIXTURE, WITH NEW CONSTRUCTION HOUSING, 0-10 VOLT DIMMING DRIVER, AND FLUSH MOUNTING ACCESSORY.	PHILLIPS LITHONIA
GG	FINELITE	HR2D-4'-HO-3500K-F-277-SC-XX	277	R	–	37	LED	2"X4', LINEAR DIRECT, 521 LUMENS PER FOOT, FLUSH DIFFUSER LIGHTING FIXTURE, WITH 0-10 VOLT DIMMING DRIVER.	PHILLIPS LITHONIA
⊗	EVENLITE	TEX-AC-G-1C	277	U	–	3	LED	SINGLE FACE EXIT SIGN, WITH GREEN LETTERS ON MIRROR BACKGROUND, BRUSHED ALUMINUM HOUSING, AND ARROWS AS INDICATED ON PLAN, UNIVERSAL, FIELD CONVERTIBLE.	PHILLIPS LITHONIA
⊗	EVENLITE	TEX-AC-G-2M	277	U	–	3	LED	DUAL FACE EXIT SIGN, WITH GREEN LETTERS ON MIRROR BACKGROUND, BRUSHED ALUMINUM HOUSING, AND ARROWS AS INDICATED ON PLAN, UNIVERSAL, FIELD CONVERTIBLE.	PHILLIPS LITHONIA
G ⊗	EVENLITE	RZR-AC-G-1-AA-RS	277	U	–	3	LED	VANDAL RESISTANT SINGLE FACE EXIT SIGN, WITH GREEN LETTERS ON ALUMINUM FACE, BRUSHED ALUMINUM BODY, AND ARROWS AS INDICATED ON PLAN, UNIVERSAL, FIELD CONVERTIBLE.	PHILLIPS LITHONIA
H ⊗	EVENLITE	TRE-EM-G-1C-W/SC	277	U	–	3	LED	SINGLE FACE EXIT SIGN, WITH GREEN LETTERS ON MIRROR BACKGROUND, BRUSHED ALUMINUM HOUSING, AND ARROWS AS INDICATED ON PLAN, UNIVERSAL, FIELD CONVERTIBLE, INTERNATIONAL HANDICAP SYMBOL.	PHILLIPS LITHONIA

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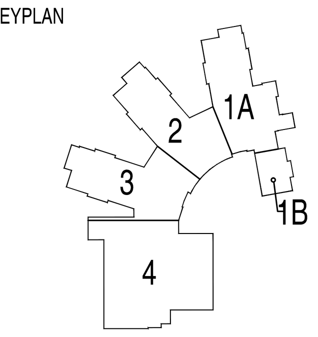

DRAWING NAME:
LIGHTING FIXTURE SCHEDULE ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	N.T.S.
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	E5.01

SWITCHBOARD "SWBD04" SCHEDULE

4,000A, 277/480V, 3Ø, 4W, 100,000 SHORT CIRCUIT A.I.C., FLOOR MOUNTED, WITH GROUND FAULT PROTECTION, AND INTEGRAL SPD

CIRCUIT BREAKER		LOAD	FEEDER AND CONDUIT SIZE	NOTES
NUMBER	TRIP (A)			
1	4000/3	MAIN CIRCUIT BREAKER	40#750KCMIL – (10) 4"C	100% FULLY RATED MAIN CIRCUIT BREAKER.
2	400/3	FOR FUTURE PHOTOVOLTAIC SYSTEM	–	–
3	600/3	PANELBOARD LM43	600A/4	–
4	300/3	PANELBOARD LP31	300A/4	–
5	300/3	PANELBOARD LP32	300A/4	–
6	300/3	PANELBOARD LP33	300A/4	–
7	100/3	SPARE	–	–
8	400/3	PANELBOARD LP11	400A/4	–
9	400/3	PANELBOARD LP12	400A/4	–
10	175/3	TRANSFORMER TDR1 (DIMMING RACK DR1)	SEE DRY TYPE TRANSFORMER SCHEDULE	–
11	400/3	PANELBOARD LP13	400A/4	–
12	225/3	TRANSFORMER TKP13 (PANELBOARD KP13)	SEE DRY TYPE TRANSFORMER SCHEDULE	–
13	100/3	ATS–2	100A/4	–
14	400/3	PANELBOARD LP04	400A/4	–
15	800/3	ATS–1	800A/4	–
16	30/3	ELEVATOR NO.1	30A/3	WIRE ELEVATOR VIA TWO FUSED DISCONNECT SWITCHES; ONE IN ELEVATOR MACHINE ROOM, ONE IN ELEVATOR SHAFT.
17	30/3	ELEVATOR NO.2	30A/3	WIRE ELEVATOR VIA TWO FUSED DISCONNECT SWITCHES; ONE IN ELEVATOR MACHINE ROOM, ONE IN ELEVATOR SHAFT.
18	30/3	ELEVATOR NO.3	30A/3	WIRE ELEVATOR VIA TWO FUSED DISCONNECT SWITCHES; ONE IN ELEVATOR MACHINE ROOM, ONE IN ELEVATOR SHAFT.
19	400/3	BUS DEPOT	400A/4	–
20	500/3	CHILLER ACC–1	500A/3	SHUNT TRIP CIRCUIT BREAKER
21	500/3	CHILLER ACC–2	500A/3	SHUNT TRIP CIRCUIT BREAKER
22	70/3	PUMP P–3	70A/3	PUMP HAS AN INTERGRAL VFD AT THE PUMP
23	70/3	PUMP P–4 (STANDBY)	70A/3	PUMP HAS AN INTERGRAL VFD AT THE PUMP
24				
25				
26				
27				
28				
29				
30				

PANELBOARD "OEDP04" SCHEDULE

800A, 277/480V, 3Ø, 4W, 100,000 SHORT CIRCUIT A.I.C., SURFACE MOUNTED, AND INTEGRAL SPD

CIRCUIT BREAKER		LOAD	FEEDER AND CONDUIT SIZE	NOTES
NUMBER	TRIP (A)			
1	800/3	MAIN CIRCUIT BREAKER	800A/4	–
2	200/3	PANELBOARD OL04	200A/4	–
3	175/3	TRANSFORMER TOMDF (PANELBOARD OMDF)	SEE DRY TYPE TRANSFORMER SCHEDULE	–
4	70/3	TRANSFORMER TKPE13 (PANELBOARD KPE13)	SEE DRY TYPE TRANSFORMER SCHEDULE	–
5	100/3	SPARE	–	
6	50/3	SPARE	–	
7	300/3	PANELBOARD OL43	300A/4	
8	20/3	RTU–2	20A/3	–
9	50/3	RTU–3	50A/3	–
10	60/3	PUMP P–1	60A/3	PUMP HAS AN INTERGRAL VFD AT THE PUMP
11	60/3	PUMP P–2 (STANDBY)	60A/3	PUMP HAS AN INTERGRAL VFD AT THE PUMP
12	20/3	SPARE	20A/3	–

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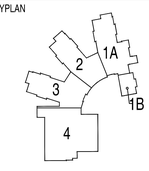

DRAWING NAME:
SCHEDULES ELECTRICAL

DRAWN BY: JGM
REVIEWED BY: RCB
SCALE: N.T.S.
JOB NO.: 1403.00
DATE: July 25, 2016
DRAWING NUMBER: E5.02

FEEDER AND CONDUIT SCHEDULE

NOTE: ALL CONDUCTORS REFERENCED IN THIS SCHEDULE ARE COPPER.

FEEDER (3W+G) AND CONDUIT SIZE SYMBOL	FEEDER (3W+G) AND CONDUIT SIZE	FEEDER (4W+G) AND CONDUIT SIZE SYMBOL	FEEDER (4W+G) AND CONDUIT SIZE	AMPERE RATING
20A/3	3#12 + 1#12G – 3/4"C	20A/4	4#12 + 1#12G – 3/4"C	20A
30A/3	3#10 + 1#10G – 3/4"C	30A/4	4#10 + 1#10G – 3/4"C	30A
50A/3	3#8 + 1#10G – 3/4"C	50A/4	4#8 + 1#10G – 1"C	50A
60A/3	3#6 + 1#10G – 1"C	60A/4	4#6 + 1#10G – 1"C	60A
70A/3	3#4 + 1#8G – 1"C	70A/4	4#4 + 1#8G – 1-1/2"C	70A
100A/3	3#3 + 1#8G – 1-1/2"C	100A/4	4#2 + 1#8G – 1-1/2"C	100A
125A/3	3#2 + 1#6G 1-1/2"C	125A/4	4#1 + 1#6G 1-1/2"C	125A
150A/3	3#1/0 + 1#6G 1-1/2"C	150A/4	4#1/0 + 1#6G – 2"C	150A
175A/3	3#2/0 + 1#6G – 2"C	175A/4	4#2/0 + 1#6G – 2"C	175A
200A/3	3#3/0 + 1#6G – 2"C	200A/4	4#3/0 + 1#6G – 2"C	200A
225A/3	3#4/0 + 1#4G – 2"C	225A/4	4#4/0 + 1#4G – 2-1/2"C	225A
250A/3	3#250KCMIL + 1#4G – 2-1/2"C	250A/4	4#250KCMIL + 1#4G – 3"C	250A
300A/3	3#350KCMIL + 1#4G – 3"C	300A/4	4#350KCMIL + 1#4G – 3"C	300A
350A/3	3#500KCMIL + 1#3G – 3-1/2"C	350A/4	4#500KCMIL + 1#3G – 4"C	350A
400A/3	3#500KCMIL + 1#3G – 3-1/2"C	400A/4	4#600KCMIL + 1#3G – 4"C	400A
500A/3	6#250KCMIL + 2#2G – (2) 2-1/2"C	500A/4	8#250KCMIL + 2#2G – (2) 3"C	500A
600A/3	6#350KCMIL + 2#1G – (2) 3"C	600A/4	8#350KCMIL + 2#1G – (2) 3"C	600A
800A/3	6#500KCMIL + 2#1/0G – (2) 3-1/2"C	800A/4	8#600KCMIL + 2#1/0G (2) 4"C	800A
1000A/3	9#400KCMIL + 3#2/0G – (3) 3"C	1000A/4	12#500KCMIL + 3#2/0G – (3) 3"C	1000A
1200A/3	9#600KCMIL + 3#3/0G – (3) 3-1/2"C	1200A/4	12#750KCMIL + 3#3/0G – (3) 4"C	1200A
1600A/3	12#600KCMIL + 4#4/0G – (4) 3-1/2"C	1600A/4	16#750KCMIL + 4#4/0G – (4) 4"C	1600A
2000A/3	15#600KCMIL + 5#250G – (5) 3-1/2"C	2000A/4	20#750KCMIL + 5#250G – (5) 4"C	2000A
2500A/3	18#600KCMIL + 6#350G – (6) 3-1/2"C	2500A/4	24#750KCMIL + 6#350G – (6) 4"C	2500A

ZERO SEQUENCE HARMONIC FILTER SCHEDULE

NOTES:
1. ALL CONDUCTORS REFERENCED IN THIS SCHEDULE ARE COPPER.
2. PHYSICAL SIZE BASED UPON POWER QUALITY INTERNATIONAL, INC. EQUIPMENT.

NAME	NEUTRAL CURRENT (A)	VOLTAGE	OVERCURRENT PROTECTION			NOTES	PHYSCAL SIZE
			SIZE (A)	LOCATION	FEEDER AND CONDUIT SIZE		
ZHF004	500	120/208	200	PANELBOARD OP04	3#250KCMIL + 3#250KCMILN – 3"C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	21.50" x 24.50"
ZHFOMDF	500	120/208	200	PANELBOARD OMDF	3#250KCMIL + 3#250KCMILN – 3"C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	21.50" x 24.50"
ZHF13	500	120/208	200	PANELBOARD CP13	3#250KCMIL + 3#250KCMILN – 3"C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	21.50" x 24.50"
ZHF13A	100	120/208	40	PANELBOARD CP13A	3#6 + 1#2/0N – 2"C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	13.50" x 20.25"
ZHF12	250	120/208	100	PANELBOARD CP12	3#1 + 2#3/0N – 2"C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	18.25" x 20.25"
ZHF11	250	120/208	100	PANELBOARD CP11	3#1 + 2#3/0N – 2"C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	18.25" x 20.25"
ZHF33	250	120/208	100	PANELBOARD CP33	3#1 + 2#3/0N – 2"C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	18.25" x 20.25"
ZHF32	250	120/208	100	PANELBOARD CP32	3#1 + 2#3/0N – 2"C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	18.25" x 20.25"
ZHFO32	500	120/208	200	PANELBOARD OP32	3#250KCMIL + 3#250KCMILN – 3"C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	21.50" x 24.50"
ZHF31	250	120/208	100	PANELBOARD CP31	3#1 + 2#3/0N – 2"C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	18.25" x 20.25"
ZHFO43	600	120/208	250	PANELBOARD OP43	3#350KCMIL + 3#350KCMILN – 3-1/2"C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	27.75" x 30.75"

DRY TYPE TRANSFORMER SCHEDULE

NOTES:
1. BOND NEUTRAL OF TRANSFORMER SECONDARY TO TRANSFORMER CASE WITH BONDING JUMPER.
2. ALL CONDUCTORS REFERENCED IN THIS SCHEDULE ARE COPPER.
3. WHERE A FUSED DISCONNECT SWITCH OR ENCLOSED CIRCUIT BREAKER IS USED FOR PRIMARY OR SECONDARY PROTECTION, IT SHALL BE LOCATED WITHIN 10' OF THE TRANSFORMER IT IS PROTECTING.
4. PROVIDE MAC ADAPTERS WHERE REQUIRED FOR TERMINATIONS.
5. FDS = FUSED DISCONNECT SWITCH, ECB = ENCLOSED CIRCUIT BREAKER.
6. PHYSICAL SIZE BASED UPON SQUARE D EQUIPMENT.

NAME	SIZE (KVA)	PRIMARY				SECONDARY				NOTES	PHYSCAL SIZE
		VOLTAGE	OVERCURRENT PROTECTION SIZE (A)	LOCATION OF OVERCURRENT PROTECTION	FEEDER AND CONDUIT SIZE	VOLTAGE	OVERCURRENT PROTECTION SIZE (A)	LOCATION OF OVERCURRENT PROTECTION	FEEDER AND CONDUIT SIZE		
TP04	150	480	225/3	PANELBOARD LP04	3#4/0 + 1#4G – 2"C	120/208	600/3	PANELBOARD PP04	8#350KCMIL + 2#1G – (2) 3"C	GROUND TRANSFORMER CASE VIA 1#3/0-3/4"C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	27" X 32"
TEP04	15	480	25/3	PANELBOARD EL04	3#10 + 1#10G – 3/4"C	120/208	60/3	PANELBOARD EP04	4#6 + 1#10G – 1"C	GROUND TRANSFORMER CASE VIA 1#6-3/4"C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	16" X 20"
TP13	75	480	125/3	PANELBOARD LP13	3#2 + 1#6G 1-1/2"C	120/208	300/3	PANELBOARD PP13	4#350KCMIL + 1#4G – 3"C	GROUND TRANSFORMER CASE VIA 1#1/0-3/4"C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	20" X 30"
TKP13	150	480	225/3	SWITCHBOARD VIA PECB	3#4/0 + 1#4G – 2"C	120/208	600/3	PANELBOARD KP13 VIA SECB	8#350KCMIL + 2#1G – (2) 3"C	GROUND TRANSFORMER CASE VIA 1#3/0-3/4"C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	27" X 32"
TKPE13	45	480	70/3	PANELBOARD OEDP VIA PECB	3#4 + 1#8G – 1"C	120/208	175/3	PANELBOARD KPE13 VIA SECB	4#2/0 + 1#6G – 2"C	GROUND TRANSFORMER CASE VIA 1#4-3/4"C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	20" X 20"
TP12	75	480	125/3	PANELBOARD LP12	3#2 + 1#6G 1-1/2"C	120/208	300/3	PANELBOARD PP12	4#350KCMIL + 1#4G – 3"C	GROUND TRANSFORMER CASE VIA 1#1/0-3/4"C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	20" X 30"
TP11	75	480	125/3	PANELBOARD LP11	3#2 + 1#6G 1-1/2"C	120/208	300/3	PANELBOARD PP11	4#350KCMIL + 1#4G – 3"C	GROUND TRANSFORMER CASE VIA 1#1/0-3/4"C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	20" X 30"
TP33	45	480	70/3	PANELBOARD LP33	3#4 + 1#8G – 1"C	120/208	175/3	PANELBOARD PP33	4#2/0 + 1#6G – 2"C	GROUND TRANSFORMER CASE VIA 1#4-3/4"C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	20" X 20"
TP32	45	480	70/3	PANELBOARD LP32	3#4 + 1#8G – 1"C	120/208	175/3	PANELBOARD PP32	4#2/0 + 1#6G – 2"C	GROUND TRANSFORMER CASE VIA 1#4-3/4"C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	20" X 20"
TP31	45	480	70/3	PANELBOARD LP31	3#4 + 1#8G – 1"C	120/208	175/3	PANELBOARD PP31	4#2/0 + 1#6G – 2"C	GROUND TRANSFORMER CASE VIA 1#4-3/4"C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	20" X 20"
TDR1	112.5	480	175/3	SWITCHBOARD VIA PECB	3#2/0 + 1#6G – 2"C	120/208	400/3	DIMMING RACK DR1 VIA SECB	4#600KCMIL + 1#3G – 4"C	GROUND TRANSFORMER CASE VIA 1#1/0-3/4"C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	24" X 30"
TP43	45	480	70/3	PANELBOARD LM43	3#4 + 1#8G – 1"C	120/208	175/3	PANELBOARD PM43	4#2/0 + 1#6G – 2"C	GROUND TRANSFORMER CASE VIA 1#4-3/4"C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	20" X 20"

DRY TYPE K-RATED TRANSFORMER SCHEDULE

NOTES:
1. BOND NEUTRAL OF TRANSFORMER SECONDARY TO TRANSFORMER CASE WITH BONDING JUMPER.
2. ALL CONDUCTORS REFERENCED IN THIS SCHEDULE ARE COPPER.
3. WHERE A FUSED DISCONNECT SWITCH OR ENCLOSED CIRCUIT BREAKER IS USED FOR PRIMARY OR SECONDARY PROTECTION, IT SHALL BE LOCATED WITHIN 10' OF THE TRANSFORMER IT IS PROTECTING.
4. PROVIDE MAC ADAPTERS WHERE REQUIRED FOR TERMINATIONS.
5. FDS = FUSED DISCONNECT SWITCH, ECB = ENCLOSED CIRCUIT BREAKER.
6. PHYSICAL SIZE BASED UPON CONTROLLED POWER COMPANY EQUIPMENT.

NAME	SIZE (KVA)	PRIMARY				SECONDARY				NOTES	PHYSCAL SIZE
		VOLTAGE	OVERCURRENT PROTECTION SIZE (A)	LOCATION OF OVERCURRENT PROTECTION	FEEDER AND CONDUIT SIZE	VOLTAGE	OVERCURRENT PROTECTION SIZE (A)	LOCATION OF OVERCURRENT PROTECTION	FEEDER AND CONDUIT SIZE		
TOP04	75	480	125/3	PANELBOARD OL04	3#2 + 1#6G 1-1/2"C	120/208	300/3	PANELBOARD OP04	5#350KCMIL + 1#4G – 3"C	GROUND TRANSFORMER CASE VIA 1#1/0-3/4"C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	25" x 35"
TOMDF	112.5	480	175/3	PANELBOARD OEDP	3#2/0 + 1#6G – 2"C	120/208	400/3	PANELBOARD OMDF	10#3/0 + 2#3G – (2) 2-1/2"C	GROUND TRANSFORMER CASE VIA 1#1/0-3/4"C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	27.50" x 41.50"
TC13	75	480	125/3	PANELBOARD LP13	3#2 + 1#6G 1-1/2"C	120/208	300/3	PANELBOARD CP13	5#350KCMIL + 1#4G – 3"C	GROUND TRANSFORMER CASE VIA 1#1/0-3/4"C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	25" x 35"
TC12	50	480	70/3	PANELBOARD LP12	3#4 + 1#8G – 1"C	120/208	175/3	PANELBOARD CP12	5#2/0 + 1#6G – 2"C	GROUND TRANSFORMER CASE VIA 1#4-3/4"C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	25" x 35"
TC11	50	480	70/3	PANELBOARD LP11	3#4 + 1#8G – 1"C	120/208	175/3	PANELBOARD CP11	5#2/0 + 1#6G – 2"C	GROUND TRANSFORMER CASE VIA 1#4-3/4"C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	25" x 35"
TC33	50	480	70/3	PANELBOARD LP33	3#4 + 1#8G – 1"C	120/208	175/3	PANELBOARD CP33	5#2/0 + 1#6G – 2"C	GROUND TRANSFORMER CASE VIA 1#4-3/4"C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	25" x 35"
TC32	50	480	70/3	PANELBOARD LP32	3#4 + 1#8G – 1"C	120/208	175/3	PANELBOARD CP32	5#2/0 + 1#6G – 2"C	GROUND TRANSFORMER CASE VIA 1#4-3/4"C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	25" x 35"
TC31	50	480	70/3	PANELBOARD LP31	3#4 + 1#8G – 1"C	120/208	175/3	PANELBOARD CP31	5#2/0 + 1#6G – 2"C	GROUND TRANSFORMER CASE VIA 1#4-3/4"C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	25" x 35"
TOP43	150	480	225/3	PANELBOARD OL43	3#4/0 + 1#4G – 2"C	120/208	600/3	PANELBOARD OP43	10#350KCMIL + 2#1G – (2) 4"C	GROUND TRANSFORMER CASE VIA 1#3/0-3/4"C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	27.50" x 41.50"

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BEVERLY MIDDLE SCHOOL

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BEVERLY, MA 01915

GENERAL NOTE LEGEND:

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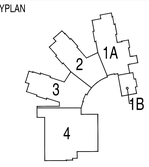
NORTH ARROW

KEYPLAN



DRAWING NAME:
SCHEDULES ELECTRICAL

DRAWN BY: JGM
REVIEWED BY: RCB
SCALE: N.T.S.
JOB NO.: 1403.00
DATE: July 25, 2016
DRAWING NUMBER: E5.03

PANELBOARD: LP04 (D) — 400 A, 480Y/277 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
400A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☐ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☐ COMPUTER PANEL
- ☐ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N..
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	20/3						CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1						225/5
1	SITE LIGHTING		4	1							2	SITE LIGHTING		6	1						
3	SITE LIGHTING		4	1							4	SITE LIGHTING		6	1						
5	SITE LIGHTING		6	1							6	SITE LIGHTING		6	1						
7	SITE LIGHTING		8	1							8	BUS SHELTER LIGHTING		10	1						
9	ENTRANCE SIGN LIGHTING		8	1							10	STEP LIGHTING		12	1						
11	LIGHTING		12	1							12	SPARE			1						
13											14	SPARE			1						
15	EF-13		12		1						16	SPARE			1						
17											18	SPARE			1						
19	SPARE			1							20	SPARE			1						
21	SPARE			1							22	SPARE			1						
23	SPARE			1							24	SPARE			1						
25	SPARE			1							26	SPARE			1						
27	SPARE			1							28	SPARE			1						
29	SPARE			1							30	SPARE			1						
31	SPARE			1							32	SPARE			1						
33	SPARE			1							34	SPARE			1						
35	SPARE			1							36	SPARE			1						
37	SPARE			1							38										
39	SPARE			1							40	PANEL PP04 VIA XFMR TP04		SEE XFMR SCH							1
41	SPARE			1							42										

PANELBOARD: OL04 (C) — 200 A, 480Y/277 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
225A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☐ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☐ COMPUTER PANEL
- ☑ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N..
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1							CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1						125/3
1	SPARE			1							2	SPARE			1						
3	SPARE			1							4	SPARE			1						
5	SPARE			1							6	SPARE			1						
7	SPARE			1							8	SPARE			1						
9	SPARE			1							10	SPARE			1						
11	SPARE			1							12	SPARE			1						
13	SPARE			1							14	SPARE			1						
15	SPARE			1							16	SPARE			1						
17	SPARE			1							18	SPARE			1						
19	SPARE			1							20	SPARE			1						
21	SPARE			1							22	SPARE			1						
23	SPARE			1							24	SPARE			1						
25	SPARE			1							26	SPARE			1						
27	SPARE			1							28	SPARE			1						
29	SPARE			1							30	SPARE			1						
31	SPARE			1							32	SPARE			1						
33	SPARE			1							34	SPARE			1						
35	SPARE			1							36	SPARE			1						
37	SPARE			1							38										
39	SPARE			1							40	PANEL OP04 VIA XFMR TOP04		SEE XFMR SCH							1
41	SPARE			1							42										

PANELBOARD: PP04 (D1) — 600 A, 208Y/120 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
600A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☐ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☐ COMPUTER PANEL
- ☐ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N..
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	40/2	20/3				125/2	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	40/2	20/3				
1	VEHICLE CHARGING STATION		4		1						2	VEHICLE CHARGING STATION		4		1					
3											4										
5	VEHICLE CHARGING STATION		4		1						6	VEHICLE CHARGING STATION		4		1					
7											8										
9	VEHICLE CHARGING STATION		4		1						10	VEHICLE CHARGING STATION		4		1					
11											12										
13	SCHOOL BUS PEDESTALS		2						1		14	SWING GATE		6	1						
15											16	SWING GATE		6	1						
17	SWING GATE		6	1							18	SWING GATE		6	1						
19	SLIDING GATE		8	1							20	PEDESTAL REC		6	1						
21	HAND DRYER		10	1							22	HAND DRYER		10	1						
23	HAND DRYER		10	1							24	HAND DRYER		10	1						
25	HAND DRYER		12	1							26	HAND DRYER		12	1						
27	HAND DRYER		12	1							28	HAND DRYER		12	1						
29	IRRIGATION CONTROL PANEL		12	1							30	TERMINAL BOXES		10	1						
31	RECEPTACLES		12	1							32	WATER COOLER		12	1						
33	RECEPTACLES		12	1							34	RECEPTACLES		10	1						
35	RECEPTACLES		12	1							36	SOUND CLOSET REC		12	1						
37	WATER COOLER		12	1							38	SOUND CLOSET REC		12	1						
39	RECEPTACLES		12	1							40	EXERCISE EQUIP REC		12	1						
41	RECEPTACLES		12	1							42	EXERCISE EQUIP REC		12	1						
43	RECEPTACLES		12	1							44	EXERCISE EQUIP REC		12	1						
45	RECEPTACLES		12	1							46	EXERCISE EQUIP REC		12	1						
47	RECEPTACLES		12	1							48	EXERCISE EQUIP REC		12	1						
49	RECEPTACLES		12	1							50	RECEPTACLES		12	1						
51	RECEPTACLES		12	1							52	RECEPTACLES		12	1						
53	RECEPTACLES		12	1							54	RECEPTACLES		12	1						
55	RECEPTACLES		12	1							56	CUH-2		12	1						
57	BASKETBALL HOIST		10	1							58	BASKETBALL HOIST		10	1						
59	BASKETBALL HOIST		10	1							60	BASKETBALL HOIST		10	1						
61	BASKETBALL HOIST		10	1							62	BASKETBALL HOIST		10	1						
63	BASKETBALL HOIST		10	1							64	BASKETBALL HOIST		10	1						
65	BASKETBALL HOIST		10	1							66	BASKETBALL HOIST		10	1						
67	BASKETBALL HOIST		10	1							68	BASKETBALL HOIST		10	1						
69	SHOTCLOCK/SCOREBOARD		12	1							70	SHOTCLOCK/SCOREBOARD		10	1						
71	CURTAIN DIVIDER		10	1							72	CURTAIN DIVIDER		10	1						
73	CURTAIN DIVIDER		10	1							74	CURTAIN DIVIDER		10	1						
75	RECEPTACLES		10	1							76	RECEPTACLES		12	1						
77	RECEPTACLES		10	1							78	RECEPTACLES		12	1						
79											80										
81	POWERED BLEACHERS		10			1					82	POWERED BLEACHERS		12			1				
83											84										

PANELBOARD: OP04 (C1) — 300 A, 208Y/120 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
400A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☑ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☑ COMPUTER PANEL
- ☑ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N..
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	30/2	20/2					CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	20/3					200/3
1	IDF #L08		10		1						2										
3											4	ZHFO04		SEE ZHF SCH							1
5	IDF #L08		10		1						6										
7											8	IDF #L08		12		1					
9	IDF #L08		10		1						10	BOILER B-1		12		1					
11											12										
13	IDF #L08		10		1						14										
15											16										
17	GYMNASIUM #1		8	1							18	BOILER B-2		12		1					
19	GYMNASIUM #2		12	1							20										
21	BUS DEPOT TECHNOLOGY RACK		4	1							22										
23	BUS DEPOT TECHNOLOGY RACK		4	1							24	BOILER B-3		12		1					
25	WATER HEATER		12	1							26										
27	WATER HEATER		12	1							28										
29	WATER HEATER		12	1							30	BOILER B-4		12		1					
31	DCC CONTROL PANEL		12	1							32										
33	SPARE				1						34	BOILER B-1 CONTROL CIRCUIT		12	1						
35											36	BOILER B-2 CONTROL CIRCUIT		12	1						
37	GENERATOR BATTERY CHARGER		8	1							38	BOILER B-3 CONTROL CIRCUIT		12	1						
39	GENERATOR JACKET WATER BLOCK HEATER		8		1						40	BOILER B-4 CONTROL CIRCUIT		12	1						
41											42	CHILLED WTR SYS CHEM SHOT FEEDER		12	1						
43	BOILER CONTROL PANEL		12	1							44	HOT WTR SYS CHEM SHOT FEEDER		12	1						
45	SUMP PUMP		12		1						46	FLUSH VALVES		12	1						
47											48	WATER HEATER		12	1						
49	SUMP PUMP		12		1						50	WATER HEATER		12	1						
51											52	DOOR POWER		10	1						
53	SPARE			1							54	SPARE			1						
55	SPARE			1							56	SPARE			1						
57	SPARE			1							58	SPARE			1						
59	SPARE			1							60	SPARE			1						
61	SPARE			1							62	SPARE			1						
63	SPARE			1							64	SPARE			1						
65	SPARE			1							66	SPARE			1						
67	SPARE			1							68	SPARE			1						
69	SPARE			1							70	SPARE			1						
71	SPARE			1							72	SPARE			1						
73	SPARE			1							74	SPARE			1						
75	SPARE			1							76	SPARE			1						
77	SPARE			1							78	SPARE			1						
79	SPARE			1							80	SPARE			1						
81	SPARE			1							82	SPARE			1						
83	SPARE			1							84	SPARE			1						

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NORTH ARROW

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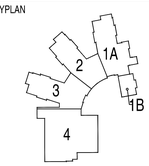

DRAWING NAME:
SCHEDULES ELECTRICAL

DRAWN BY: JGM
REVIEWED BY: RCB
SCALE: N.T.S.
JOB NO.: 1403.00
DATE: July 25, 2016
DRAWING NUMBER: E5.04

PANELBOARD: OMDF (S) — 400 A, 208Y/120 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
400A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☑ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☑ COMPUTER PANEL
- ☑ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	CIRCUIT BREAKER 30/3	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	CIRCUIT BREAKER 20/3
1	MDF		10		1	2					
3						4	2HFOMDF		SEE 2HF SCH		1
5	MDF		10		1	6					
7						8	MDF		10	1	
9	MDF		10		1	10					
11						12	MDF		10	1	
13	MDF		10		1	14					
15						16	MDF		10	1	
17	MDF		10		1	18					
19						20	MDF		10	1	
21	MDF		10		1	22					
23						24	MDF		10	1	
25	MDF		10		1	26					
27						28	MDF		10	1	
29	MDF		10		1	30					
31						32	MDF		10	1	
33	MDF		12		1	34					
35	SPARE				1	36	MDF		10	1	
37	SPARE				1	38					
39	SPARE				1	40	SPARE			1	
41	SPARE				1	42	SPARE			1	
43	SPARE				1	44	SPARE			1	
45	SPARE				1	46	SPARE			1	
47	SPARE				1	48	SPARE			1	
49	SPARE				1	50	SPARE			1	
51	SPARE				1	52	SPARE			1	
53	SPARE				1	54	SPARE			1	
55	SPARE				1	56	SPARE			1	
57	SPARE				1	58	SPARE			1	
59	SPARE				1	60	SPARE			1	
61	SPARE				1	62	SPARE			1	
63	SPARE				1	64	SPARE			1	
65	SPARE				1	66	SPARE			1	
67	SPARE				1	68	SPARE			1	
69	SPARE				1	70	SPARE			1	
71	SPARE				1	72	SPARE			1	
73	SPARE				1	74	SPARE			1	
75	SPARE				1	76	SPARE			1	
77	SPARE				1	78	SPARE			1	
79	SPARE				1	80	SPARE			1	
81	SPARE				1	82	SPARE			1	
83	SPARE				1	84	SPARE			1	
85	SPARE				1	86	SPARE			1	
87	SPARE				1	88	SPARE			1	
89	SPARE				1	90	SPARE			1	
91	SPARE				1	92	SPARE			1	
93	SPARE				1	94	SPARE			1	
95	SPARE				1	96	SPARE			1	
97	SPARE				1	98	SPARE			1	
99	SPARE				1	100	SPARE			1	
101	SPARE				1	102	SPARE			1	
103	SPARE				1	104	SPARE			1	
105	SPARE				1	106	SPARE			1	
107	SPARE				1	108	SPARE			1	
109	SPARE				1	110	SPARE			1	
111	SPARE				1	112	SPARE			1	
113	SPARE				1	114	SPARE			1	
115	SPARE				1	116	SPARE			1	
117	SPARE				1	118	SPARE			1	
119	SPARE				1	120	SPARE			1	
121	SPARE				1	122	SPARE			1	
123	SPARE				1	124	SPARE			1	
125	SPARE				1	126	SPARE			1	

PANELBOARD: EL04 (E) — 100 A, 480Y/277 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☐ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
100A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☐ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☐ COMPUTER PANEL
- ☑ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	CIRCUIT BREAKER 30/3	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	CIRCUIT BREAKER 25/3
1	EXTERIOR BUILDING LIGHTING		10	1		2	EXTERIOR BUILDING LIGHTING		10	1	
3	SPARE			1		4	SPARE			1	
5	SPARE			1		6	SPARE			1	
7	SPARE			1		8	SPARE			1	
9	SPARE			1		10	SPARE			1	
11	SPARE			1		12	SPARE			1	
13	SPARE			1		14	SPARE			1	
15	SPARE			1		16	SPARE			1	
17	SPARE			1		18	SPARE			1	
19	SPARE			1		20	SPARE			1	
21	SPARE			1		22	SPARE			1	
23	SPARE			1		24	SPARE			1	
25	SPARE			1		26					
27	SPARE			1		28	PANEL EL11		SEE RSR		1
29	SPARE			1		30					
31	SPARE			1		32					
33	SPARE			1		34	PANEL EL43		SEE RSR		1
35	SPARE			1		36					
37	SPARE			1		38					
39	SPARE			1		40	PANEL EP04 VIA XFMR TEP04		SEE XFMR SCH		1
41	SPARE			1		42					

PANELBOARD: EP04 (E1) — 100 A, 208Y/120 V, 3PH, 4W, 60HZ

- ☑ MAIN LUG ONLY
- ☐ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
100A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☐ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☐ COMPUTER PANEL
- ☑ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	CIRCUIT BREAKER 20/3	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1
1	BUS DEPOT SECURITY CAMERAS		8	1		2	BUS DEPOT SECURITY CAMERAS		8	1
3	BUS DEPOT SECURITY CAMERAS		8	1		4	BUS DEPOT SECURITY CAMERAS		8	1
5	BUS DEPOT SECURITY CAMERAS		8	1		6	BUS DEPOT SECURITY CAMERAS		8	1
7	BUS DEPOT SECURITY CAMERAS		8	1		8	SPARE			1
9	SPARE			1		10	SPARE			1
11	SPARE			1		12	SPARE			1
13	SPARE			1		14	SPARE			1
15	SPARE			1		16	SPARE			1
17	SPARE			1		18	SPARE			1
19	SPARE			1		20	SPARE			1
21	SPARE			1		22	SPARE			1
23	SPARE			1		24	SPARE			1
25	SPARE			1		26	SPARE			1
27	SPARE			1		28	SPARE			1
29	SPARE			1		30	SPARE			1
31	SPARE			1		32	SPARE			1
33	SPARE			1		34	SPARE			1
35	SPARE			1		36	SPARE			1
37	SPARE			1		38	SPARE			1
39	SPARE			1		40	SPARE			1
41	SPARE			1		42	SPARE			1

PANELBOARD: EL11 — 100 A, 480Y/277 V, 3PH, 4W, 60HZ

- ☑ MAIN LUG ONLY
- ☐ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
100A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☐ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☐ COMPUTER PANEL
- ☑ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1
1	SPARE			1	2	SPARE			1
3	SPARE			1	4	SPARE			1
5	SPARE			1	6	SPARE			1
7	SPARE			1	8	SPARE			1
9	SPARE			1	10	SPARE			1
11	SPARE			1	12	SPARE			1
13	SPARE			1	14	SPARE			1
15	SPARE			1	16	SPARE			1
17	SPARE			1	18	SPARE			1
19	SPARE			1	20	SPARE			1
21	SPARE			1	22	SPARE			1
23	SPARE			1	24	SPARE			1
25	SPARE			1	26	SPARE			1
27	SPARE			1	28	SPARE			1
29	SPARE			1	30	SPARE			1
31	SPARE			1	32	SPARE			1
33	SPARE			1	34	SPARE			1
35	SPARE			1	36	SPARE			1
37	SPARE			1	38	SPARE			1
39	SPARE			1	40	SPARE			1
41	SPARE			1	42	SPARE			1

PANELBOARD: CP11 (F2) — 175 A, 208Y/120 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
225A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☑ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☑ COMPUTER PANEL
- ☑ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	CIRCUIT BREAKER 100/3
1	CLASSRM #107		12	1	2					
3	CLASSRM #107		10	1	4	ZHF11		SEE ZHF SCH		1
5	CLASSRM #108		10	1	6					
7	CLASSRM #108		10	1	8	CLASSRM #110		10	1	
9	CLASSRM #109		10	1	10	CLASSRM #110		10	1	
11	SPARE			1	12	SPARE			1	
13	CLASSRM #109		10	1	14	CLASSRM #113A		10	1	
15	CLASSRM #113A		10	1	16	CLASSRM #113A		10	1	
17	CLASSRM #114		12	1	18	CLASSRM #114		10	1	
19	CLASSRM #204		10	1	20	CLASSRM #204		10	1	
21	CLASSRM #207		10	1	22	CLASSRM #207		10	1	
23	CLASSRM #208		10	1	24	SPARE			1	
25	CLASSRM #209		8	1	26	SPARE			1	
27	CLASSRM #209		10	1	28	CLASSRM #210		8	1	
29	CLASSRM #210		8	1	30	CLASSRM #213A		10	1	
31	CLASSRM #213A		10	1	32	CLASSRM #213A		10	1	
33	CLASSRM #214		10	1	34	CLASSRM #214		10	1	
35	IDF #203		12	1	36	SPARE			1	
37	SPARE			1	38	SPARE			1	
39	SPARE			1	40	SPARE			1	
41	SPARE			1	42	SPARE			1	
43	SPARE			1	44	SPARE			1	
45	SPARE			1	46	SPARE			1	
47	SPARE			1	48	SPARE			1	
49	SPARE			1	50	SPARE			1	
51	SPARE			1	52	SPARE			1	
53	SPARE			1	54	SPARE			1	
55	SPARE			1	56	SPARE			1	
57	SPARE			1	58	SPARE			1	
59	SPARE			1	60	SPARE			1	
61	SPARE			1	62	SPARE			1	
63	SPARE			1	64	SPARE			1	
65	SPARE			1	66	SPARE			1	
67	SPARE			1	68	SPARE			1	
69	SPARE			1	70	SPARE			1	
71	SPARE			1	72	SPARE			1	
73	SPARE			1	74	SPARE			1	
75	SPARE			1	76	SPARE			1	
77	SPARE			1	78	SPARE			1	
79	SPARE			1	80	SPARE			1	
81	SPARE			1	82	SPARE			1	
83	SPARE			1	84	SPARE			1	

PANELBOARD: LP11 (F) — 400 A, 480Y/277 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
400A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☐ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☐ COMPUTER PANEL
- ☐ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	CIRCUIT BREAKER 125/3	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	CIRCUIT BREAKER 70/3
1	LTG RM #104,105,107,108		12	1		2	LTG RM #109,110,111,113A,B,114,115		12	1	
3	LTG RM #204,205,207,208,209		10	1		4	LTG RM #210,211,213A,B,214,215		10	1	
5	LTG CORR #C101		12	1		6	SPARE			1	
7	SPARE			1		8	SPARE			1	
9	SPARE			1		10	SPARE			1	
11	SPARE			1		12	SPARE			1	
13	SPARE			1		14	SPARE			1	
15	SPARE			1		16	SPARE			1	
17	SPARE			1		18	SPARE			1	
19	SPARE			1		20	SPARE			1	
21	SPARE			1		22	SPARE			1	
23	SPARE			1		24	SPARE			1	
25	SPARE			1		26	SPARE			1	
27	SPARE			1		28	SPARE			1	
29	SPARE			1		30	SPARE			1	
31	SPARE			1		32	SPARE			1	
33	SPARE			1		34	SPARE			1	
35	SPARE			1		36	SPARE			1	
37						38					
39	PANEL PP11 VIA XFMR TP11		SEE XFMR SCH		1	40	PANEL CP11 VIA XFMR TC11		SEE XFMR SCH		1
41						42					

PANELBOARD: PP11 (F1) — 300 A, 208Y/120 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
400A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☐ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☐ COMPUTER PANEL
- ☐ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	CIRCUIT BREAKER 20/3	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1
1	CLASSRM #107		10	1		2	CLASSRM #108		8	1
3	CLASSRM #109		8	1		4	CLASSRM #110		8	1
5	CLASSRM #113A		8	1		6	CLASSRM #114		10	1
7	CLASSRM #204		10	1		8	CLASSRM #207		10	1
9	CLASSRM #208		8	1		10	CLASSRM #209		8	1
11	CLASSRM #210		8	1		12	CLASSRM #213A		10	1
13	CLASSRM #214		10	1		14	TERMINAL BOXES		10	1
15	TERMINAL BOXES		10	1		16	HAND DRYER		10	1
17	RECEPTACLES		12	1		18	HAND DRYER		10	1
19	HAND DRYER		12	1		20	HAND DRYER		10	1
21	HAND DRYER		12	1		22	RECEPTACLES		10	1
23	WATER COOLER		12	1		24	RECEPTACLES		10	1
25	PH MONITORING CONTROL PNL		12	1		26	SPARE			1
27	RECEPTACLES		10	1		28	SPARE			1
29	RECEPTACLES		12	1		30	SPARE			1
31	RECEPTACLES		12	1		32	SPARE			1
33	RECEPTACLES		12	1		34	SPARE			1
35	CUH-3		12	1		36	SPARE			1
37						38	SPARE			1
39	PANEL WS11		SEE RSR		1	40	SPARE			1
41						42	SPARE			1
43	RECEPTACLES		8	1		44	SPARE			1
45	RECEPTACLES		8	1		46	SPARE			1
47	RECEPTACLES		8	1		48	SPARE			1
49	DROP CORD		8	1		50	SPARE			1
51	DROP CORD		8	1		52	SPARE			1
53	SPARE			1		54	SPARE			1
55	SPARE			1		56	SPARE			1
57	SPARE			1		58	SPARE			1
59	SPARE			1		60	SPARE			1
61	SPARE			1		62	SPARE			1
63	SPARE			1		64	SPARE			1
65	SPARE			1		66	SPARE			1
67	SPARE			1		68	SPARE			1
69	SPARE			1		70	SPARE			1
71	SPARE			1		72	SPARE			1
73	SPARE			1		74	SPARE			1
75	SPARE			1		76	SPARE			1
77	SPARE			1		78	SPARE			1
79	SPARE			1		80	SPARE			1
81	SPARE			1		82	SPARE			1
83	SPARE			1		84	SPARE			1
85	SPARE			1		86	SPARE			1
87	SPARE			1		88	SPARE			1
89	SPARE			1		90	SPARE			1
91	SPARE			1		92	SPARE			1
93	SPARE			1		94	SPARE			1
95	SPARE			1		96	SPARE			1
97	SPARE			1		98	SPARE			1
99	SPARE			1		100	SPARE			1
101	SPARE			1		102	SPARE			1
103	SPARE			1		104	SPARE			1
105	SPARE			1		106	SPARE			1
107	SPARE			1		108	SPARE			1
109	SPARE			1		110	SPARE			1
111	SPARE			1		112	SPARE			1
113	SPARE			1		114	SPARE			1
115	SPARE			1		116	SPARE			1
117	SPARE			1		118	SPARE			1
119	SPARE			1		120	SPARE			1
121	SPARE			1		122	SPARE			1
123	SPARE			1		124	SPARE			1
125	SPARE			1		126	SPARE			1

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BEVERLY MIDDLE SCHOOL

CABOT STREET
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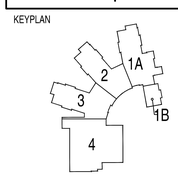
GENERAL NOTE LEGEND:

90% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

NORTH ARROW

KEYPLAN



DRAWING NAME:
SCHEDULES ELECTRICAL

DRAWN BY: JGM
REVIEWED BY: RCB
SCALE: N.T.S.
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PANELBOARD: LP12 (G) — 400 A, 480Y/277 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
400A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☐ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☐ COMPUTER PANEL
- ☐ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	15/3	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	70/3
1	LTG RM#121A,122,123,125,126,127		12	1		2	LTG RM#128,129,131A,B,132,133		12	1	
3	LTG RM#221A,222,223,225,226,227		10	1		4	LTG RM#228A,B,229,231A,B,232,233		10	1	
5	SPARE			1		6	SPARE			1	
7	SPARE			1		8	SPARE			1	
9	SPARE			1		10	SPARE			1	
11	SPARE			1		12	SPARE			1	
13	SPARE			1		14	SPARE			1	
15	SPARE			1		16	SPARE			1	
17	SPARE			1		18	SPARE			1	
19	SPARE			1		20	SPARE			1	
21	SPARE			1		22	SPARE			1	
23	SPARE			1		24	SPARE			1	
25	SPARE			1		26	SPARE			1	
27	SPARE			1		28	SPARE			1	
29	SPARE			1		30	SPARE			1	
31	SPARE			1		32	SPARE			1	
33	SPARE			1		34	SPARE			1	
35	SPARE			1		36	SPARE			1	
37						38					
39	PANEL PP12 VIA XFMR TP12		SEE XFMR SCH		1	40	PANEL CP12 VIA XFMR TC12		SEE XFMR SCH		1
41						42					

PANELBOARD: CP12 (G2) — 175 A, 208Y/120 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
225A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☑ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☑ COMPUTER PANEL
- ☑ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	100/3
1	CLASSRM#122		12	1	2			SEE ZHF SCH		
3	CLASSRM#122		12	1	4	ZHF12				1
5	CLASSRM#125		12	1	6					
7	CLASSRM#125		12	1	8	CLASSRM#126		10	1	
9	SPARE			1	10	CLASSRM#127		10	1	
11	SPARE			1	12	CLASSRM#128		10	1	
13	CLASSRM#128		10	1	14	CLASSRM#131A		10	1	
15	CLASSRM#131A		12	1	16	CLASSRM#131A		10	1	
17	CLASSRM#132		12	1	18	CLASSRM#132		12	1	
19	CLASSRM#221A,B		12	1	20	SPARE			1	
21	CLASSRM#222		12	1	22	CLASSRM#222		12	1	
23	CLASSRM#225		10	1	24	CLASSRM#225		10	1	
25	CLASSRM#226		10	1	26	SPARE			1	
27	CLASSRM#227		8	1	28	SPARE			1	
29	CLASSRM#228A		8	1	30	SPARE			1	
31	CLASSRM#228B		10	1	32	SPARE			1	
33	CLASSRM#231A		10	1	34	CLASSRM#231A		10	1	
35	CLASSRM#231A		10	1	36	CLASSRM#232		10	1	
37	CLASSRM#232		10	1	38	SPARE			1	
39	IDF #219		12	1	40	SPARE			1	
41	SPARE			1	42	SPARE			1	
43	SPARE			1	44	SPARE			1	
45	SPARE			1	46	SPARE			1	
47	SPARE			1	48	SPARE			1	
49	SPARE			1	50	SPARE			1	
51	SPARE			1	52	SPARE			1	
53	SPARE			1	54	SPARE			1	
55	SPARE			1	56	SPARE			1	
57	SPARE			1	58	SPARE			1	
59	SPARE			1	60	SPARE			1	
61	SPARE			1	62	SPARE			1	
63	SPARE			1	64	SPARE			1	
65	SPARE			1	66	SPARE			1	
67	SPARE			1	68	SPARE			1	
69	SPARE			1	70	SPARE			1	
71	SPARE			1	72	SPARE			1	
73	SPARE			1	74	SPARE			1	
75	SPARE			1	76	SPARE			1	
77	SPARE			1	78	SPARE			1	
79	SPARE			1	80	SPARE			1	
81	SPARE			1	82	SPARE			1	
83	SPARE			1	84	SPARE			1	

PANELBOARD: LP13 (H) — 400 A, 480Y/277 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
400A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☐ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☐ COMPUTER PANEL
- ☐ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	10/3	125/3	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	125/3
1	LTG RM#135,136,137,139A,B,140		12	1			2	LTG RM#141,142,144		12	1	
3	LTG RM#235,236,237,239A,B,240		10	1			4	LTG RM#241,242,244,245A,B,T2-7		10	1	
5	SPARE			1			6	SPARE			1	
7	SPARE			1			8	SPARE			1	
9	SPARE			1			10	SPARE			1	
11	SPARE			1			12	SPARE			1	
13	SPARE			1			14	SPARE			1	
15	SPARE			1			16	SPARE			1	
17	SPARE			1			18	SPARE			1	
19	SPARE			1			20	SPARE			1	
21	SPARE			1			22	SPARE			1	
23	SPARE			1			24	SPARE			1	
25	SPARE			1			26	SPARE			1	
27	SPARE			1			28	SPARE			1	
29	SPARE			1			30	SPARE			1	
31							32	SPARE			1	
33	PANEL LP13A		SEE RSR			1	34	SPARE			1	
35							36	SPARE			1	
37							38					
39	PANEL PP13 VIA XFMR TP13		SEE XFMR SCH			1	40	PANEL CP13 VIA XFMR TC13		SEE XFMR SCH		1
41							42					

PANELBOARD: PP12 (G1) — 300 A, 208Y/120 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
400A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☑ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☐ COMPUTER PANEL
- ☐ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
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P = GFPE - 30 mA TRIP
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S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	150/3	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1
1	CLASSRM#122		12	1		2	CLASSRM#125		12	1
3	CLASSRM#126		10	1		4	CLASSRM#127		10	1
5	CLASSRM#128		8	1		6	CLASSRM#131A		8	1
7	CLASSRM#132		12	1		8	CLASSRM#221A,B		12	1
9	CLASSRM#222		12	1		10	CLASSRM#225		10	1
11	CLASSRM#226		10	1		12	CLASSRM#227		10	1
13	CLASSRM#228A		8	1		14	CLASSRM#228B		8	1
15	CLASSRM#231A		8	1		16	CLASSRM#232		10	1
17	TERMINAL BOXES		10	1		18	TERMINAL BOXES		10	1
19	SPARE			1		20	SPARE			1
21	SPARE			1		22	SPARE			1
23	SPARE			1		24	SPARE			1
25	SPARE			1		26	SPARE			1
27	SPARE			1		28	SPARE			1
29	SPARE			1		30	SPARE			1
31	SPARE			1		32	SPARE			1
33	SPARE			1		34	SPARE			1
35	SPARE			1		36	SPARE			1
37						38	SPARE			1
39	PANEL PP12A		SEE RSR		1	40	SPARE			1
41						42	SPARE			1
43	SPARE			1		44	SPARE			1
45	SPARE			1		46	SPARE			1
47	SPARE			1		48	SPARE			1
49	SPARE			1		50	SPARE			1
51	SPARE			1		52	SPARE			1
53	SPARE			1		54	SPARE			1
55	SPARE			1		56	SPARE			1
57	SPARE			1		58	SPARE			1
59	SPARE			1		60	SPARE			1
61	SPARE			1		62	SPARE			1
63	SPARE			1		64	SPARE			1
65	SPARE			1		66	SPARE			1
67	SPARE			1		68	SPARE			1
69	SPARE			1		70	SPARE			1
71	SPARE			1		72	SPARE			1
73	SPARE			1		74	SPARE			1
75	SPARE			1		76	SPARE			1
77	SPARE			1		78	SPARE			1
79	SPARE			1		80	SPARE			1
81	SPARE			1		82	SPARE			1
83	SPARE			1		84	SPARE			1
85	SPARE			1		86	SPARE			1
87	SPARE			1		88	SPARE			1
89	SPARE			1		90	SPARE			1
91	SPARE			1		92	SPARE			1
93	SPARE			1		94	SPARE			1
95	SPARE			1		96	SPARE			1
97	SPARE			1		98	SPARE			1
99	SPARE			1		100	SPARE			1
101	SPARE			1		102	SPARE			1
103	SPARE			1		104	SPARE			1
105	SPARE			1		106	SPARE			1
107	SPARE			1		108	SPARE			1
109	SPARE			1		110	SPARE			1
111	SPARE			1		112	SPARE			1
113	SPARE			1		114	SPARE			1
115	SPARE			1		116	SPARE			1
117	SPARE			1		118	SPARE			1
119	SPARE			1		120	SPARE			1
121	SPARE			1		122	SPARE			1
123	SPARE			1		124	SPARE			1
125	SPARE			1		126	SPARE			1

PANELBOARD: CP13 (H2) — 300 A, 208Y/120 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
400A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☑ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☑ COMPUTER PANEL
- ☑ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
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G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	100/3	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	200/3
1	CLASSRM#136		12	1		2			SEE ZHF SCH		
3	CLASSRM#136		12	1		4	ZHF13				1
5	CLASSRM#139A		12	1		6					
7	CLASSRM#139A		12	1		8	CLASSRM#140		10	1	
9	CLASSRM#139A		12	1		10	CLASSRM#140		10	1	
11	CLASSRM#141		10	1		12	CLASSRM#141		10	1	
13	CLASSRM#144		10	1		14	CLASSRM#144		10	1	
15	CLASSRM#236		12	1		16	CLASSRM#236		12	1	
17	CLASSRM#239A		10	1		18	CLASSRM#239A		10	1	
19	CLASSRM#239A		10	1		20	CLASSRM#240		8	1	
21	CLASSRM#240		8	1		22	CLASSRM#241		8	1	
23	CLASSRM#241		8	1		24	CLASSRM#244		10	1	
25	CLASSRM#244		10	1		26	CLASSRM#245A		12	1	
27	CLASSRM#245A		12	1		28	CLASSRM#245A		12	1	
29	CLASSRM#245A		12	1		30	SPARE			1	
31	IDF #L08		8	1		32	SPARE			1	
33	IDF# 246		12	1		34	SPARE			1	
35	MDF		12	1		36	SPARE			1	
37						38	SPARE			1	
39	PANEL CP13A		SEE RSR		1	40	SPARE			1	
41						42	SPARE			1	
43	SPARE			1		44	SPARE			1	
45	SPARE			1		46	SPARE			1	
47	SPARE			1		48	SPARE			1	
49	SPARE			1		50	SPARE			1	
51	SPARE			1		52	SPARE			1	
53	SPARE			1		54	SPARE			1	
55	SPARE			1		56	SPARE			1	
57	SPARE			1		58	SPARE			1	
59	SPARE			1		60	SPARE			1	
61	SPARE			1		62	SPARE			1	
63	SPARE			1		64	SPARE			1	
65	SPARE			1		66	SPARE			1	
67	SPARE			1		68	SPARE			1	
69	SPARE			1		70	SPARE			1	
71	SPARE			1		72	SPARE			1	
73	SPARE			1		74	SPARE			1	
75	SPARE			1		76	SPARE			1	
77	SPARE			1		78	SPARE			1	
79	SPARE			1		80	SPARE			1	
81	SPARE			1		82	SPARE			1	
83	SPARE			1		84	SPARE			1	

PANELBOARD: PP13 (H1) — 300 A, 208Y/120 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

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400A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
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GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	50/3	20/3	10/3	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	50/3
1	CLASSRM#136		12	1				2	CLASSRM#140		8	1	
3	CLASSRM#139A		12	1				4	CLASSRM#141		8	1	
5	CLASSRM#144		10	1				6	CLASSRM#236		10	1	
7	CLASSRM#239A		8	1				8	CLASSRM#240		8	1	
9	CLASSRM#241		8	1				10	CLASSRM#244		10	1	
11	CLASSRM#245A		12	1				12	TERMINAL BOXES		10	1	
13								14	TERMINAL BOXES		10	1	
15	AUDITORIUM HOIST		10			1		16	SPARE			1	
17								18	SPARE			1	
19	AUDITORIUM HOIST		10		1			20	SPARE			1	
21	SPARE				1			22	SPARE			1	
23	SPARE				1			24	SPARE			1	
25	SPARE				1			26	SPARE			1	
27								28	SPARE			1	
29	PANEL PP13A		SEE RSR				1	30	SPARE			1	
31								32	SPARE			1	
33	POTTERY WHEEL #134C		12		1			34	POTTERY WHEEL #134C		12	1	
35	KILN VENT #134C		12		1			36	KILN VENT #134C		12	1	
37								38					
39	KILN #134C		8			1		40	KILN #134C		8		1
41								42					
43	SPARE				1			44	SPARE			1	
45	SPARE				1			46	SPARE			1	
47	SPARE				1			48	SPARE			1	
49	SPARE				1			50	SPARE			1	
51	SPARE				1			52	SPARE			1	
53	SPARE				1			54	SPARE			1	
55	SPARE				1			56	SPARE			1	
57	SPARE				1			58	SPARE			1	
59	SPARE				1			60	SPARE			1	
61	SPARE				1			62	SPARE			1	
63	SPARE				1			64	SPARE			1	
65	SPARE				1			66	SPARE			1	
67	SPARE				1			68	SPARE			1	
69	SPARE				1			70	SPARE			1	
71	SPARE				1			72	SPARE			1	
73	SPARE				1			74	SPARE			1	
75	SPARE				1			76	SPARE			1	
77	SPARE				1			78	SPARE			1	
79	SPARE				1			80	SPARE			1	
81	SPARE				1			82	SPARE			1	
83	SPARE				1			84	SPARE			1	
85	SPARE				1			86	SPARE			1	
87	SPARE				1			88	SPARE			1	
89	SPARE				1			90	SPARE			1	
91	SPARE				1			92	SPARE			1	
93	SPARE				1			94	SPARE			1	
95	SPARE				1			96	SPARE			1	
97	SPARE				1			98	SPARE			1	
99	SPARE				1			100	SPARE			1	
101	SPARE				1			102	SPARE			1	
103	SPARE				1			104	SPARE			1	
105	SPARE				1			106	SPARE			1	
107	SPARE				1			108	SPARE			1	
109	SPARE				1			110	SPARE			1	
111	SPARE				1			112	SPARE			1	
113	SPARE				1			114	SPARE			1	
115	SPARE				1			116	SPARE			1	
117	SPARE				1			118	SPARE			1	
119	SPARE				1			120	SPARE			1	
121	SPARE				1			122	SPARE			1	
123	SPARE				1			124	SPARE			1	
125	SPARE				1			126	SPARE			1	

A3 architects
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GENERAL NOTE LEGEND:

90% CONSTRUCTION DOCUMENTS

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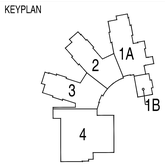
NORTH ARROW

KEYPLAN



DRAWING NAME:
SCHEDULES ELECTRICAL

DRAWN BY: JGM
REVIEWED BY: RCB
SCALE: N.T.S.
JOB NO.: 1403.00
DATE: July 25, 2016
DRAWING NUMBER: E5.06

PANELBOARD: LP31 (K) — 300 A, 480Y/277 V, 3PH, 4W, 60HZ

- [ ] MAIN LUG ONLY
- [x] MAIN CIRCUIT BREAKER
- [ ] FLUSH MOUNTED
- [x] SURFACE MOUNTED

65K AIC
400A BUS AMPS RATING

- [ ] SHUNT TRIP MAIN
- [ ] 200% RATED NEUTRAL
- [ ] ISOLATED GROUND
- [ ] FEED THRU LUGS
- [ ] 100% RATED MAIN BREAKER
- [ ] GROUND FAULT MAIN C.B.
- [ ] COMPUTER PANEL
- [ ] SURGE PROTECTION DEVICE

NOTES:
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N..
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N..
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N..
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	20/3	70/3
1	LTG RM #304,305,307,308,309		12	1		
3	LTG RM #404,405,407,408,409		10	1		
5						
7	EF-1		12		1	
9						
11	SPARE			1		
13	SPARE			1		
15	SPARE			1		
17	SPARE			1		
19	SPARE			1		
21	SPARE			1		
23	SPARE			1		
25	SPARE			1		
27	SPARE			1		
29	SPARE			1		
31	SPARE			1		
33	SPARE			1		
35	SPARE			1		
37						
39	PANEL PP31 VIA XFMR TP31		SEE XFMR SCH			1
41						

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	70/3
2	LTG RM #310,311,313A,B,314,315		12	1	
4	LTG RM #411,413A,B,414,415		10	1	
6	SPARE			1	
8	SPARE			1	
10	SPARE			1	
12	SPARE			1	
14	SPARE			1	
16	SPARE			1	
18	SPARE			1	
20	SPARE			1	
22	SPARE			1	
24	SPARE			1	
26	SPARE			1	
28	SPARE			1	
30	SPARE			1	
32	SPARE			1	
34	SPARE			1	
36	SPARE			1	
38					
40	PANEL CP31 VIA XFMR TC31		SEE XFMR SCH		1
42					

PANELBOARD: PP31 (K1) — 175 A, 208Y/120 V, 3PH, 4W, 60HZ

- [ ] MAIN LUG ONLY
- [x] MAIN CIRCUIT BREAKER
- [ ] FLUSH MOUNTED
- [x] SURFACE MOUNTED

65K AIC
225A BUS AMPS RATING

- [ ] SHUNT TRIP MAIN
- [ ] 200% RATED NEUTRAL
- [ ] ISOLATED GROUND
- [ ] FEED THRU LUGS
- [ ] 100% RATED MAIN BREAKER
- [ ] GROUND FAULT MAIN C.B.
- [ ] COMPUTER PANEL
- [ ] SURGE PROTECTION DEVICE

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G = GFCI - 5mA TRIP
S = SHUNT TRIP
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3 = 3W + G

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2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N..
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N..
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	40/2
1	CLASSRM #304		12	1	
3	CLASSRM #308		8	1	
5	CLASSRM #310		8	1	
7	CLASSRM #404		10	1	
9	CLASSRM #408		8	1	
11	CLASSRM #413A		8	1	
13	CLASSRM #313A		8	1	
15	RTU-11 REC & CNTLS		10	1	
17	RTU-10 REC & CNTLS		10	1	
19	TERMINAL BOXES		10	1	
21	SPARE			1	
23	SPARE			1	
25	SPARE			1	
27	SPARE			1	
29	SPARE			1	
31	SPARE			1	
33	SPARE			1	
35	SPARE			1	
37	SPARE			1	
39	SPARE			1	
41	SPARE			1	
43	SPARE			1	
45	SPARE			1	
47	SPARE			1	
49	SPARE			1	
51	SPARE			1	
53	SPARE			1	
55	SPARE			1	
57	SPARE			1	
59	SPARE			1	
61	SPARE			1	
63	SPARE			1	
65	SPARE			1	
67	SPARE			1	
69	SPARE			1	
71	SPARE			1	
73	SPARE			1	
75	SPARE			1	
77	SPARE			1	
79	SPARE			1	
81	SPARE			1	
83	SPARE			1	

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	40/2
2	CLASSRM #307		8	1	
4	CLASSRM #309		8	1	
6	CLASSRM #314		8	1	
8	CLASSRM #407		8	1	
10	CLASSRM #409		8	1	
12	CLASSRM #414		10	1	
14	RTU-13 REC & CNTLS		10	1	
16	RTU-12 REC & CNTLS		10	1	
18	TERMINAL BOXES		10	1	
20	SPARE			1	
22	SPARE			1	
24	SPARE			1	
26	SPARE			1	
28	SPARE			1	
30	SPARE			1	
32	SPARE			1	
34	SPARE			1	
36	SPARE			1	
38	SPARE			1	
40	SPARE			1	
42	SPARE			1	
44	SPARE			1	
46	SPARE			1	
48	SPARE			1	
50	SPARE			1	
52	SPARE			1	
54	SPARE			1	
56	SPARE			1	
58	SPARE			1	
60	SPARE			1	
62	SPARE			1	
64	SPARE			1	
66	SPARE			1	
68	SPARE			1	
70	SPARE			1	
72	SPARE			1	
74	SPARE			1	
76	SPARE			1	
78	SPARE			1	
80	SPARE			1	
82	SPARE			1	
84	SPARE			1	

PANELBOARD: CP31 (K2) — 175 A, 208Y/120 V, 3PH, 4W, 60HZ

- [ ] MAIN LUG ONLY
- [x] MAIN CIRCUIT BREAKER
- [ ] FLUSH MOUNTED
- [x] SURFACE MOUNTED

65K AIC
225A BUS AMPS RATING

- [ ] SHUNT TRIP MAIN
- [x] 200% RATED NEUTRAL
- [ ] ISOLATED GROUND
- [ ] FEED THRU LUGS
- [ ] 100% RATED MAIN BREAKER
- [ ] GROUND FAULT MAIN C.B.
- [x] COMPUTER PANEL
- [x] SURGE PROTECTION DEVICE

NOTES:
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IG = ISOLATED GROUND
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S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N..
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N..
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N..
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1
1	CLASSRM #304		12	1
3	CLASSRM #304		12	1
5	CLASSRM #307		10	1
7	CLASSRM #307		10	1
9	SPARE			1
11	SPARE			1
13	CLASSRM #310		10	1
15	CLASSRM #313A		10	1
17	CLASSRM #313A		10	1
19	CLASSRM #314		10	1
21	CLASSRM #404		12	1
23	CLASSRM #407		10	1
25	SPARE			1
27	SPARE			1
29	CLASSRM #413A		10	1
31	CLASSRM #413A		8	1
33	CLASSRM #414		10	1
35	IDF #403		12	1
37	SPARE			1
39	SPARE			1
41	SPARE			1
43	SPARE			1
45	SPARE			1
47	SPARE			1
49	SPARE			1
51	SPARE			1
53	SPARE			1
55	SPARE			1
57	SPARE			1
59	SPARE			1
61	SPARE			1
63	SPARE			1
65	SPARE			1
67	SPARE			1
69	SPARE			1
71	SPARE			1
73	SPARE			1
75	SPARE			1
77	SPARE			1
79	SPARE			1
81	SPARE			1
83	SPARE			1

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	100/3
2					
4	ZHF31		SEE ZHF SCH		1
6					
8	CLASSRM #308		10	1	
10	CLASSRM #309		10	1	
12	CLASSRM #309		10	1	
14	CLASSRM #310		10	1	
16	CLASSRM #313A		10	1	
18	CLASSRM #314		10	1	
20	CLASSRM #404		12	1	
22	CLASSRM #407		10	1	
24	CLASSRM #408		10	1	
26	CLASSRM #409		10	1	
28	CLASSRM #409		10	1	
30	CLASSRM #413A		10	1	
32	CLASSRM #414		10	1	
34	SPARE			1	
36	SPARE			1	
38	SPARE			1	
40	SPARE			1	
42	SPARE			1	
44	SPARE			1	
46	SPARE			1	
48	SPARE			1	
50	SPARE			1	
52	SPARE			1	
54	SPARE			1	
56	SPARE			1	
58	SPARE			1	
60	SPARE			1	
62	SPARE			1	
64	SPARE			1	
66	SPARE			1	
68	SPARE			1	
70	SPARE			1	
72	SPARE			1	
74	SPARE			1	
76	SPARE			1	
78	SPARE			1	
80	SPARE			1	
82	SPARE			1	
84	SPARE			1	

PANELBOARD: CP32 (L2) — 175 A, 208Y/120 V, 3PH, 4W, 60HZ

- [ ] MAIN LUG ONLY
- [x] MAIN CIRCUIT BREAKER
- [ ] FLUSH MOUNTED
- [x] SURFACE MOUNTED

65K AIC
225A BUS AMPS RATING

- [ ] SHUNT TRIP MAIN
- [x] 200% RATED NEUTRAL
- [ ] ISOLATED GROUND
- [ ] FEED THRU LUGS
- [ ] 100% RATED MAIN BREAKER
- [ ] GROUND FAULT MAIN C.B.
- [x] COMPUTER PANEL
- [x] SURGE PROTECTION DEVICE

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3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N..
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1
1	CLASSRM #321A		12	1
3	SPARE			1
5	CLASSRM #322		12	1
7	CLASSRM #322		12	1
9	CLASSRM #325		10	1
11	CLASSRM #326		10	1
13	CLASSRM #327		10	1
15	CLASSRM #328		10	1
17	CLASSRM #331A		10	1
19	CLASSRM #332		10	1
21	CLASSRM #421A		12	1
23	CLASSRM #422		10	1
25	CLASSRM #425		10	1
27	CLASSRM #426		10	1
29	CLASSRM #427		10	1
31	CLASSRM #431A		10	1
33	CLASSRM #431A		8	1
35	CLASSRM #432		10	1
37	IDF #419		12	1
39	SPARE			1
41	SPARE			1
43	SPARE			1
45	SPARE			1
47	SPARE			1
49	SPARE			1
51	SPARE			1
53	SPARE			1
55	SPARE			1
57	SPARE			1
59	SPARE			1
61	SPARE			1
63	SPARE			1
65	SPARE			1
67	SPARE			1
69	SPARE			1
71	SPARE			1
73	SPARE			1
75	SPARE			1
77	SPARE			1
79	SPARE			1
81	SPARE			1
83	SPARE			1

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	100/3
2					
4	ZHF32		SEE ZHF SCH		1
6					
8	CLASSRM #331A		8	1	
10	CLASSRM #325		10	1	
12	SPARE			1	
14	SPARE			1	
16	CLASSRM #328		10	1	
18	CLASSRM #331A		10	1	
20	CLASSRM #332		10	1	
22	SPARE			1	
24	CLASSRM #422		10	1	
26	CLASSRM #425		10	1	
28	SPARE			1	
30	SPARE			1	
32	CLASSRM #431A		10	1	
34	CLASSRM #432		10	1	
36	SPARE			1	
38	SPARE			1	
40	SPARE			1	
42	SPARE			1	
44	SPARE			1	
46	SPARE			1	
48	SPARE			1	
50	SPARE			1	
52	SPARE			1	
54	SPARE			1	
56	SPARE			1	
58	SPARE			1	
60	SPARE			1	
62	SPARE			1	
64	SPARE			1	
66	SPARE			1	
68	SPARE			1	
70	SPARE			1	
72	SPARE			1	
74	SPARE			1	
76	SPARE			1	
78	SPARE			1	
80	SPARE			1	
82	SPARE			1	
84	SPARE			1	

PANELBOARD: LP32 (L) — 300 A, 480Y/277 V, 3PH, 4W, 60HZ

- [ ] MAIN LUG ONLY
- [x] MAIN CIRCUIT BREAKER
- [ ] FLUSH MOUNTED
- [x] SURFACE MOUNTED

65K AIC
200A BUS AMPS RATING

- [ ] SHUNT TRIP MAIN
- [ ] 200% RATED NEUTRAL
- [ ] ISOLATED GROUND
- [ ] FEED THRU LUGS
- [ ] 100% RATED MAIN BREAKER
- [ ] GROUND FAULT MAIN C.B.
- [ ] COMPUTER PANEL
- [ ] SURGE PROTECTION DEVICE

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3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N..
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	20/3	70/3
1	LTG RM #321A,322,323,325,326,327		12	1		
3	LTG RM #421A,422,423,425,426,427		10	1		
5	SPARE			1		
7	SPARE			1		
9	SPARE			1		
11	SPARE			1		
13	SPARE			1		
15	SPARE			1		
17	SPARE			1		
19	SPARE			1		
21	SPARE			1		
23	SPARE			1		
25	SPARE			1		
27	SPARE			1		
29	SPARE			1		
31	SPARE			1		
33	SPARE			1		
35	SPARE			1		
37						
39	PANEL PP32 VIA XFMR TP32		SEE XFMR SCH			1
41						

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	70/3
2	LTG RM #328,329,331A,B,332,333		12	1	
4	LTG RM #429,431A,B, 432,433		10	1	
6	SPARE			1	
8	SPARE			1	
10	SPARE			1	
12	SPARE			1	
14	SPARE			1	
16	SPARE			1	
18	SPARE			1	
20	SPARE			1	
22	SPARE			1	
24	SPARE			1	
26	SPARE			1	
28	SPARE			1	
30	SPARE			1	
32	SPARE			1	
34	SPARE			1	
36	SPARE			1	
38					
40	PANEL CP32 VIA XFMR TC32		SEE XFMR SCH		1
42					

PANELBOARD: PP32 (L1) — 175 A, 208Y/120 V, 3PH, 4W, 60HZ

- [ ] MAIN LUG ONLY
- [x] MAIN CIRCUIT BREAKER
- [ ] FLUSH MOUNTED
- [x] SURFACE MOUNTED

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225A BUS AMPS RATING

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- [ ] ISOLATED GROUND
- [ ] FEED THRU LUGS
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3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N..
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	40/2
1	CLASSRM #321A		12	1	
3	CLASSRM #325		10	1	
5	CLASSRM #327		6	1	
7	CLASSRM #332		10	1	
9	CLASSRM #422		10	1	
11	CLASSRM #426		8	1	
13	CLASSRM #431A		10	1	
15	RTU-9 REC & CNTLS		10	1	
17	RTU-7 REC & CNTLS		10	1	
19	TERMINAL BOXES		10	1	
21	SPARE			1	
23	SPARE			1	
25	SPARE			1	
27	SPARE			1	
29	SPARE			1	
31	SPARE			1	
33	SPARE			1	
35	SPARE			1	
37	SPARE			1	
39	SPARE			1	
41	SPARE			1	
43	SPARE			1	
45	SPARE			1	
47	SPARE			1	
49	SPARE			1	
51	SPARE			1	
53	SPARE			1	
55	SPARE			1	
57	SPARE			1	
59	SPARE			1	
61	SPARE			1	
63	SPARE			1	
65	SPARE			1	
67	SPARE			1	
69	SPARE			1	
71	SPARE			1	
73	SPARE			1	
75	SPARE			1	
77	SPARE			1	
79	SPARE			1	
81	SPARE			1	
83	SPARE			1	

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER 20/1	40/2
2	CLASSRM #322		12	1	
4	CLASSRM #326		10	1	
6	CLASSRM #328		8	1	
8	CLASSRM #421A		12	1	
10	CLASSRM #425		10	1	
12	CLASSRM #427		10	1	
14	CLASSRM #432		10	1	
16	RTU-8 REC & CNTLS		10	1	
18	RTU-6 REC & CNTLS		10	1	
20	TERMINAL BOXES		10	1	
22	SPARE			1	
24	SPARE			1	
26	SPARE			1	
28	SPARE			1	
30	SPARE			1	
32	SPARE			1	
34	SPARE			1	
36	SPARE			1	
38	SPARE			1	
40	SPARE			1	
42	SPARE			1	
44	SPARE			1	
46	SPARE			1	
48	SPARE			1	
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52	SPARE			1	
54	SPARE			1	
56	SPARE			1	
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62	SPARE			1	
64	SPARE			1	
66	SPARE			1	
68	SPARE			1	
70	SPARE			1	
72	SPARE			1	
74	SPARE			1	
76	SPARE			1	
78	SPARE			1	
80	SPARE			1	
82	SPARE			1	
84	SPARE			1	

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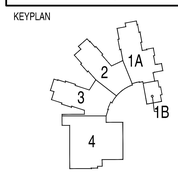
NORTH ARROW

KEYPLAN



DRAWING NAME:
SCHEDULES ELECTRICAL

DRAWN BY: JGM
REVIEWED BY: RCB
SCALE: N.T.S.
JOB NO.: 1403.00
DATE: July 25, 2016
DRAWING NUMBER: E5.07

PANELBOARD: LP33 (M) — 300 A, 480Y/277 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
400A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☐ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☐ COMPUTER PANEL
- ☐ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER
1	LTG RM #335,336,337,339A,B,340		12	1	2	LTG RM #341,342,344		12	1
3	LTG RM #435,436,437,439A,B		10	1	4	LTG RM #441,442,444,445		10	1
5	SPARE			1	6	SPARE			1
7	SPARE			1	8	SPARE			1
9	SPARE			1	10	SPARE			1
11	SPARE			1	12	SPARE			1
13	SPARE			1	14	SPARE			1
15	SPARE			1	16	SPARE			1
17	SPARE			1	18	SPARE			1
19	SPARE			1	20	SPARE			1
21	SPARE			1	22	SPARE			1
23	SPARE			1	24	SPARE			1
25	SPARE			1	26	SPARE			1
27	SPARE			1	28	SPARE			1
29	SPARE			1	30	SPARE			1
31	SPARE			1	32	SPARE			1
33	SPARE			1	34	SPARE			1
35	SPARE			1	36	SPARE			1
37					38				
39	PANEL PP33 VIA XFMR TP33		SEE XFMR SCH	1	40	PANEL CP33 VIA XFMR TC33		SEE XFMR SCH	1
41					42				

PANELBOARD: CP33 (M2) — 175 A, 208Y/120 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
225A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☑ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☑ COMPUTER PANEL
- ☑ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER
1	CLASSRM #336		12	1	2			SEE ZHF SCH	
3	CLASSRM #336		12	1	4	ZHF33			1
5	CLASSRM #339A		12	1	6				
7	CLASSRM #339A		12	1	8	CLASSRM #339A		10	1
9	CLASSRM #340		10	1	10	CLASSRM #340		10	1
11	CLASSRM #341		10	1	12	CLASSRM #341		10	1
13	CLASSRM #344		10	1	14	CLASSRM #344		10	1
15	CLASSRM #436		10	1	16	CLASSRM #436		12	1
17	CLASSRM #439A		10	1	18	CLASSRM #439A		10	1
19	CLASSRM #439A		8	1	20	CLASSRM #441		10	1
21	CLASSRM #441		10	1	22	CLASSRM #444		10	1
23	CLASSRM #444		10	1	24	CLASSRM #445		10	1
25	CLASSRM #445		10	1	26	SPARE			1
27	IDF #446		12	1	28	SPARE			1
29	SPARE			1	30	SPARE			1
31	SPARE			1	32	SPARE			1
33	SPARE			1	34	SPARE			1
35	SPARE			1	36	SPARE			1
37	SPARE			1	38	SPARE			1
39	SPARE			1	40	SPARE			1
41	SPARE			1	42	SPARE			1
43	SPARE			1	44	SPARE			1
45	SPARE			1	46	SPARE			1
47	SPARE			1	48	SPARE			1
49	SPARE			1	50	SPARE			1
51	SPARE			1	52	SPARE			1
53	SPARE			1	54	SPARE			1
55	SPARE			1	56	SPARE			1
57	SPARE			1	58	SPARE			1
59	SPARE			1	60	SPARE			1
61	SPARE			1	62	SPARE			1
63	SPARE			1	64	SPARE			1
65	SPARE			1	66	SPARE			1
67	SPARE			1	68	SPARE			1
69	SPARE			1	70	SPARE			1
71	SPARE			1	72	SPARE			1
73	SPARE			1	74	SPARE			1
75	SPARE			1	76	SPARE			1
77	SPARE			1	78	SPARE			1
79	SPARE			1	80	SPARE			1
81	SPARE			1	82	SPARE			1
83	SPARE			1	84	SPARE			1

PANELBOARD: OP32 (T) — 400 A, 208Y/120 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
400A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☑ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☑ COMPUTER PANEL
- ☑ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER
1	IDF #203		8	1	2			SEE ZHF SCH	
3					4	ZHF032			1
5	IDF #203		8	1	6				
7					8	IDF #203		8	1
9	IDF #203		8	1	10	IDF #219		12	1
11					12	IDF #403		8	1
13	IDF #203		8	1	14				
15					16	IDF #403		8	1
17	IDF #219		10	1	18				
19					20	IDF #403		8	1
21	IDF #219		10	1	22				
23					24	IDF #403		8	1
25	IDF #219		10	1	26				
27					28	IDF #419		10	1
29	IDF #219		10	1	30				
31					32	IDF #419		10	1
33	IDF #409		8	1	34				
35	IDF #419		12	1	36	IDF #419		10	1
37	SPARE			1	38				
39	RTU-3 REC AND CNTLS		10	1	40	IDF #419		10	1
41	RTU-2 REC AND CNTLS		10	1	42				
43	MEDIA CENTER/READING ROOM 100A		4	1	44	SUMP PUMP		12	1
45					46				
47	MEDIA CENTER/READING ROOM 100A		4	1	48	DFC-10/CU-10		8	1
49					50				
51	SPARE			1	52	DFC-11/CU-11		8	1
53	SPARE			1	54				
55	SPARE			1	56	SPARE			1
57	SPARE			1	58	SPARE			1
59	SPARE			1	60	SPARE			1
61	SPARE			1	62	SPARE			1
63	SPARE			1	64	SPARE			1
65	SPARE			1	66	SPARE			1
67	SPARE			1	68	SPARE			1
69	SPARE			1	70	SPARE			1
71	SPARE			1	72	SPARE			1
73	SPARE			1	74	SPARE			1
75	SPARE			1	76	SPARE			1
77	SPARE			1	78	SPARE			1
79	SPARE			1	80	SPARE			1
81	SPARE			1	82	SPARE			1
83	SPARE			1	84	SPARE			1

PANELBOARD: PP33 (M1) — 175 A, 208Y/120 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
225A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☐ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☐ COMPUTER PANEL
- ☐ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER
1	CLASSRM #336		12	1	2	CLASSRM #339A		10	1
3	CLASSRM #340		8	1	4	CLASSRM #341		8	1
5	CLASSRM #344		10	1	6	CLASSRM #436		10	1
7	CLASSRM #439A		8	1	8	CLASSRM #441		8	1
9	CLASSRM #444		10	1	10	CLASSRM #445		10	1
11	RTU-4 REC & CNTLS		10	1	12	RTU-5 REC & CNTLS		10	1
13	RTU-1 REC & CNTLS		10	1	14	ACCU-1 REC & CNTLS		10	1
15	ACCU-2 REC & CNTLS		10	1	16	TERMINAL BOXES		10	1
17	TERMINAL BOXES		10	1	18	SPARE			1
19	SPARE			1	20	SPARE			1
21	SPARE			1	22	SPARE			1
23	SPARE			1	24	SPARE			1
25	SPARE			1	26	SPARE			1
27	SPARE			1	28	SPARE			1
29	SPARE			1	30	SPARE			1
31	SPARE			1	32	SPARE			1
33	SPARE			1	34	SPARE			1
35	SPARE			1	36	SPARE			1
37	SPARE			1	38	SPARE			1
39	SPARE			1	40	SPARE			1
41	SPARE			1	42	SPARE			1
43	SPARE			1	44	SPARE			1
45	SPARE			1	46	SPARE			1
47	SPARE			1	48	SPARE			1
49	SPARE			1	50	SPARE			1
51	SPARE			1	52	SPARE			1
53	SPARE			1	54	SPARE			1
55	SPARE			1	56	SPARE			1
57	SPARE			1	58	SPARE			1
59	SPARE			1	60	SPARE			1
61	SPARE			1	62	SPARE			1
63	SPARE			1	64	SPARE			1
65	SPARE			1	66	SPARE			1
67	SPARE			1	68	SPARE			1
69	SPARE			1	70	SPARE			1
71	SPARE			1	72	SPARE			1
73	SPARE			1	74	SPARE			1
75	SPARE			1	76	SPARE			1
77	SPARE			1	78	SPARE			1
79	SPARE			1	80	SPARE			1
81	SPARE			1	82	SPARE			1
83	SPARE			1	84	SPARE			1
85	SPARE			1	86	SPARE			1
87	SPARE			1	88	SPARE			1
89	SPARE			1	90	SPARE			1
91	SPARE			1	92	SPARE			1
93	SPARE			1	94	SPARE			1
95	SPARE			1	96	SPARE			1
97	SPARE			1	98	SPARE			1
99	SPARE			1	100	SPARE			1
101	SPARE			1	102	SPARE			1
103	SPARE			1	104	SPARE			1
105	SPARE			1	106	SPARE			1
107	SPARE			1	108	SPARE			1
109	SPARE			1	110	SPARE			1
111	SPARE			1	112	SPARE			1
113	SPARE			1	114	SPARE			1
115	SPARE			1	116	SPARE			1
117	SPARE			1	118	SPARE			1
119	SPARE			1	120	SPARE			1
121	SPARE			1	122	SPARE			1
123	SPARE			1	124	SPARE			1
125	SPARE			1	126	SPARE			1

PANELBOARD: OL43 (N) — 300 A, 480Y/277 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
400A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☐ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☐ COMPUTER PANEL
- ☑ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER
1	SPARE			1	2	SPARE			1
3	SPARE			1	4	SPARE			1
5	SPARE			1	6	SPARE			1
7	SPARE			1	8	SPARE			1
9	SPARE			1	10	SPARE			1
11	SPARE			1	12	SPARE			1
13	SPARE			1	14	SPARE			1
15	SPARE			1	16	SPARE			1
17	SPARE			1	18	SPARE			1
19	SPARE			1	20	SPARE			1
21	SPARE			1	22	SPARE			1
23	SPARE			1	24	SPARE			1
25	SPARE			1	26	SPARE			1
27	SPARE			1	28	SPARE			1
29	SPARE			1	30	SPARE			1
31	SPARE			1	32	SPARE			1
33	SPARE			1	34	SPARE			1
35	SPARE			1	36	SPARE			1
37	SPARE			1	38				
39	SPARE			1	40	PANEL OP43 VIA XFMR TOP43		SEE XFMR SCH	1
41	SPARE			1	42				

PANELBOARD: EL43 (R) — 100 A, 480Y/277 V, 3PH, 4W, 60HZ

- ☑ MAIN LUG ONLY
- ☐ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
100A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☐ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☐ COMPUTER PANEL
- ☑ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER
1	SPARE			1	2	SPARE			1
3	SPARE			1	4	SPARE			1
5	SPARE			1	6	SPARE			1
7	SPARE			1	8	SPARE			1
9	SPARE			1	10	SPARE			1
11	SPARE			1	12	SPARE			1
13	SPARE			1	14	SPARE			1
15	SPARE			1	16	SPARE			1
17	SPARE			1	18	SPARE			1
19	SPARE			1	20	SPARE			1
21	SPARE			1	22	SPARE			1
23	SPARE			1	24	SPARE			1
25	SPARE			1	26	SPARE			1
27	SPARE			1	28	SPARE			1
29	SPARE			1	30	SPARE			1
31	SPARE			1	32	SPARE			1
33	SPARE			1	34	SPARE			1
35	SPARE			1	36	SPARE			1
37	SPARE			1	38	SPARE			1
39	SPARE			1	40	SPARE			1
41	SPARE			1	42	SPARE			1

PANELBOARD: OP43 (N1) — 600 A, 208Y/120 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
600A BUS AMPS RATING

- ☐ SHUNT TRIP MAIN
- ☑ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☑ COMPUTER PANEL
- ☑ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
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A = ARC FAULT CIRCUIT BREAKER
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GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER
1	IDF #246		10	1	2			SEE ZHF SCH	
3					4	ZHF043			1
5	IDF #246		10	1	6				
7					8	IDF #246		12	1
9	IDF #246		10	1	10	IDF #446		12	1
11					12	SPARE			1
13	IDF #246		10	1	14	SPARE			1
15					16	SPARE			1
17	IDF #446		10	1	18	SPARE			1
19					20	SPARE			1
21	IDF #446		10	1	22	SPARE			1
23					24	SPARE			1
25	IDF #446		10	1	26	SPARE			1
27					28	SPARE			1
29	IDF #446		10	1	30	SPARE			1
31					32	SPARE			1
33	SPARE			1	34	SPARE			1
35	SPARE			1	36	SPARE			1
37	SPARE			1	38				
39	SPARE			1	40	PANEL OP32		SEE RSR	1
41	SPARE			1	42				

PANELBOARD: WS11 (U) — 200 A, 208Y/120 V, 3PH, 4W, 60HZ

- ☐ MAIN LUG ONLY
- ☑ MAIN CIRCUIT BREAKER
- ☐ FLUSH MOUNTED
- ☑ SURFACE MOUNTED

65K AIC
225A BUS AMPS RATING

- ☑ SHUNT TRIP MAIN
- ☐ 200% RATED NEUTRAL
- ☐ ISOLATED GROUND
- ☐ FEED THRU LUGS
- ☐ 100% RATED MAIN BREAKER
- ☐ GROUND FAULT MAIN C.B.
- ☐ COMPUTER PANEL
- ☐ SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N.
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N.
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER	CKT NO.	LOAD DESCRIPTION	NOTE	WIRE SIZE	CIRCUIT BREAKER
1	LATHE		12	1	2	DRILL PRESS		12	1
3					4				
5					6	SCROLL SAW		12	1
7	ROUTER CONTROL BOX		10	1	8	SPARE			1
9	ROUTER SPINDLE		12	1	10	PORTABLE DUST COLLECTOR		12	1
11					12	SPARE			1
13					14	MITER SAW		12	1
15	CORD REEL		12	1	16	MIG WELDER		6	1
17	CORD REEL		12	1	18				
19	CORD REEL		12	1	20	MIG WELDER		6	1
21	CORD REEL		12	1	22				
23	CORD REEL		12	1	24	MIG WELDER		6	1
25	CORD REEL		12	1	26				
27	RECEPTACLES		12	1	28	MIG WELDER		6	1
29					30				
31	BAND SAW		12	1	32	MILLING MACHINE		12	1
33					34				
35					36	SPARE			1
37	SPARE			1	38				
39					40	SPARE			1
41	SPARE			1	42				

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BEVERLY MIDDLE SCHOOL

CABOT STREET
BEVERLY, MA 01915

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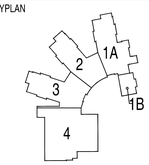
KEYNOTE LEGEND:

90% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

NORTH ARROW

KEYPLAN



DRAWING NAME:
SCHEDULES ELECTRICAL

DRAWN BY: JGM
REVIEWED BY: RCB
SCALE: N.T.S.
JOB NO.: 1403.00
DATE: July 25, 2016
DRAWING NUMBER: E5.08

DR1 Dimmer Panel Schedule

Dim/Circuit #	Location	Module	Designation
1	**Front of House - Lighting Batten**	**D20**	**FOH2**
2	Front of House - Lighting Batten	D20	FOH2
3	Front of House - Lighting Batten	D20	FOH2
4	Front of House - Lighting Batten	D20	FOH2
5	Front of House - Lighting Batten	D20	FOH2
6	Front of House - Lighting Batten	D20	FOH2
7	Front of House - Lighting Batten	D20	FOH2
8	Front of House - Lighting Batten	D20	FOH2
9	Front of House - Lighting Batten	D20	FOH2
10	Front of House - Lighting Batten	D20	FOH2
11	Front of House - Lighting Batten	D20	FOH2
12	Front of House - Lighting Batten	D20	FOH2
13	Front of House - Lighting Batten	D20	FOH2
14	Front of House - Lighting Batten	D20	FOH2
15	Front of House - Lighting Batten	**R20**	FOH2
16	Front of House - Lighting Batten	R20	FOH2
17	**House Right Torm**	**D20**	**TB-1**
18	House Right Torm	D20	TB-1
19	House Right Torm	**R20**	TB-1
20	**Stage Left Torm**	R20	**TB-2**
21	Stage Left Torm	**D20**	TB-2
22	Stage Left Torm	D20	TB-2
23	**1st Electric**	**D20**	**CS-1**
24	1st Electric	D20	CS-1
25	1st Electric	D20	CS-1
26	1st Electric	D20	CS-1
27	1st Electric	D20	CS-1
28	1st Electric	D20	CS-1
29	1st Electric	**R20**	CS-1
30	1st Electric	R20	CS-1
31	**2nd Electric**	**D20**	**CS-2**
32	2nd Electric	D20	CS-2
33	2nd Electric	D20	CS-2
34	2nd Electric	D20	CS-2
35	2nd Electric	D20	CS-2
36	2nd Electric	D20	CS-2
37	2nd Electric	**R20**	CS-2
38	2nd Electric	R20	CS-2
39	**3rd Electric**	**D20**	**CS-3**
40	3rd Electric	D20	CS-2
41	3rd Electric	D20	CS-2
42	3rd Electric	D20	CS-2
43	3rd Electric	D20	CS-2
44	3rd Electric	D20	CS-2
45	3rd Electric	**R20**	CS-2
46	3rd Electric	R20	CS-2
47	**4th Electric**	**D20**	**CS-4**
48	4th Electric	D20	CS-4

Note: Designation Matches Labels on Riser Drawing

DR1 Dimmer Panel Schedule

Dim/Circuit #	Location	Module	Designation
49	4th Electric	D20	CS-4
50	4th Electric	D20	CS-4
51	4th Electric	D20	CS-4
52	4th Electric	D20	CS-4
53	4th Electric	**R20**	CS-4
54	4th Electric	R20	CS-4
55	**House Right FOH Pipe**	**R20**	PB-1
56	**House Left FOH Pipe**	R20	PB-2
57		**R20**	
58-E	**Vestibules**	**R20**	**Type V1**
59-E	Fixture Type E (Stage Apron Area)	R20	**Type - E**
60-E	Fixture Type E (Front of Audience)	R20	Type - E
61	Fixture Type E (Mid Front)	R20	Type - E
62-E	Fixture Type E (Mid rear)	R20	Type - E
63-E	Fixture Type E (Back of House)	R20	Type - E
64	**Side Overheads - Auditorium**	R20	**Type - P3**
65	Fixture Type P1 - Band Room	R20	**Type - P1**
66-E	Fixture Type E - Band Room	R20	Type - E
67	**Side Overheads - Band**	R20	**Type - P2**
68	Chair / Floor lights	R20	**Chairs**
69	**Recessed in Verticals - Auditorium**	R20	**Type - P3**
70	**Recessed in Verticals - Band**	R20	**Type - P1**
71	**Recess Mount Box Stage Left**	**D20**	**RM-1**
72	Recess Mount Box Stage Left	D20	RM-1
73	Recess Mount Box Stage Left	D20	RM-1
74	Recess Mount Box Stage Right	D20	RM-2
75	Recess Mount Box Stage Right	D20	RM-2
76	Recess Mount Box Stage Right	D20	RM-2
77	Spare	**AFM**	
78	Spare	AFM	
79	Spare	AFM	
80	Spare	AFM	
81	Spare	AFM	
82	Spare	AFM	
83	Spare	AFM	
84	Spare	AFM	
85	Spare	AFM	
86	Spare	AFM	
87	Spare	AFM	
88	Spare	AFM	
89	Spare	AFM	
90	Spare	AFM	
91	Spare	AFM	
92	Spare	AFM	
93	Spare	AFM	
94	Spare	AFM	
95	Spare	AFM	
96	Spare	AFM	

E - Denotes Circuit on Emergency Lighting Transfer Switch

Division of Responsibilities	Electrical Contractor		Theatre Equipment Contractor	
ITEM	Furnish	Install	Furnish	Install
All High voltage wire	X	X		
Low voltage wire for Dimming systems.		X	X	
Low voltage wire for Fire alarms, security, communications and other systems.	X	X		
Low voltage wire for Clear-com Back stage communications system.		X	X	
All conduit, raceways and interconnecting boxes	X	X		
High voltage wire testing and labeling	X	X		
Control wire continuity, testing and labeling	X	X		
Labeling back boxes and conduit	X	X		
Junction Boxes	X	X		
Power (High Voltage) Terminations	X	X		
Provide Power feed, control wire and terminations to Batten Hoist and stage hoists, including motors	X	X		
Provide terminations for all dimmer load circuits	X	X		
Provide and Mount all stage hoists			X	X
Termination of Dimming system low voltage wire			X	
Architectural Control – House lighting back boxes		X	X	
Dimmer Racks or Equipment cabinets		X	X	
Theatrical Control Devices			X	X
Stage Circuit Distribution Raceways and Boxes.		X	X	
Mounting of Stage Circuit Raceways to Pipes			X	X
Theatrical Lighting Fixture Installation, DMX assignment and testing			X	X
Theatrical Lighting Fixture Focus			X	X
House Light station Initial programming			X	X
Stage Rigging, curtains and tracks			X	X

DIVISION 11 61 00 THEATRE AND STAGE EQUIPMENT NOTES:

1. ELECTRICAL CONTRACTOR SHALL REFER TO DIVISION 11 61 00 THEATRE AND STAGE EQUIPMENT SPECIFICATIONS AND DRAWINGS FOR LOCATIONS OF DIVISION 11 61 00 THEATRE AND STAGE EQUIPMENT OUTLETS. ELECTRICAL CONTRACTOR SHALL PROVIDE BACK BOXES AND CONDUIT AS REQUIRED BY THE ELECTRICAL SPECIFICATIONS, THIS DRAWING, THE DIVISION 11 61 00 THEATRE AND STAGE EQUIPMENT SPECIFICATIONS AND DRAWINGS.

2. ELECTRICAL CONTRACTOR SHALL REFER TO DIVISION 11 61 00 THEATRE AND STAGE EQUIPMENT SPECIFICATIONS AND DRAWINGS FOR LOCATIONS OF CONDUITS. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUITS BETWEEN OUTLETS AS REQUIRED BY THE DIVISION 11 61 00 THEATRE AND STAGE EQUIPMENT SPECIFICATIONS AND DRAWINGS.

3. ELECTRICAL CONTRACTOR SHALL REFER TO DIVISION 11 61 00 THEATRE AND STAGE EQUIPMENT SPECIFICATIONS AND DRAWINGS FOR DIVISION 11 61 00 THEATRE AND STAGE EQUIPMENT OUTLET MOUNTING HEIGHTS.

4. IF THERE ARE DISCREPANCIES BETWEEN THE ELECTRICAL DRAWINGS AND SPECIFICATIONS AND THE DIVISION 11 61 00 THEATRE AND STAGE EQUIPMENT DRAWINGS AND SPECIFICATIONS, THE DIVISION 11 61 00 THEATRE AND STAGE EQUIPMENT DRAWINGS AND SPECIFICATIONS SHALL GOVERN.

5. ELECTRICAL CONTRACTOR SHALL REFER TO DIVISION 11 61 00 THEATRE AND STAGE EQUIPMENT SPECIFICATIONS AND DRAWINGS AND PROVIDE, FURNISH, AND/OR INSTALL EQUIPMENT AS INDICATED IN SPECIFICATIONS AND DRAWINGS AND DIVISION OF RESPONSIBILITY MATRIX ON THIS DRAWING.

6. WHERE ELECTRICAL DRAWINGS INDICATE A FLOOR BOX OR A FIRE RATED POKE THRU, ELECTRICAL CONTRACTOR SHALL REFER TO DIVISION 11 61 00 THEATRE AND STAGE EQUIPMENT SPECIFICATIONS AND DRAWINGS TO DETERMINE DIVISION 11 61 00 THEATRE AND STAGE EQUIPMENT OUTLET REQUIREMENTS, TO BE PROVIDED IN FLOOR BOX OR FIRE RATED POKE THRU. FLOOR BOX OR POKE THRU SHALL BE OF SUFFICIENT SIZE TO INCLUDE ALL RECEPTACLE AND DIVISION 11 61 00 THEATRE AND STAGE EQUIPMENT OUTLET REQUIREMENTS AT LOCATION.

7. ELECTRICAL CONTRACTOR SHALL REFER TO DIVISION 11 61 00 THEATRE AND STAGE EQUIPMENT SPECIFICATIONS AND DRAWINGS FOR GROUNDING. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUNDING AS REQUIRED BY DIVISION 11 61 00 THEATRE AND STAGE EQUIPMENT SPECIFICATIONS AND DRAWINGS.

8. DIVISION 11 61 00 THEATRE AND STAGE EQUIPMENT DRAWINGS: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

9. THE COH, STAGE RACK, AND BOOTH RECEPTACLES SHALL ALL BE CIRCUITED TO THE SAME PHASE B OF THE PANELBOARD WHICH THEY ARE BEING CIRCUITED TO. THEATER RACK SHOULD BE CIRCUITED TO PHASE A OF THE PANELBOARD WHICH IT IS BEING CIRCUITED TO.

PANELBOARD: LP13A (P) 400 A, 480Y/277 V, 3PH, 4W, 60HZ

- [ ] MAIN LUG ONLY
- [x] MAIN CIRCUIT BREAKER
- [ ] FLUSH MOUNTED
- [x] SURFACE MOUNTED

65K AIC
400A BUS AMPS RATING

- [ ] SHUNT TRIP MAIN
- [ ] 200% RATED NEUTRAL
- [ ] ISOLATED GROUND
- [ ] FEED THRU LUGS
- [ ] 100% RATED MAIN BREAKER
- [ ] GROUND FAULT MAIN C.B.
- [ ] COMPUTER PANEL
- [ ] SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N..
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N..
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N..
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.		LOAD DESCRIPTION	NOTE	WIRE SIZE		20/1	'	'	'	'	'	'	'
1						1							
3						1							
5		SPARE				1							
7		SPARE				1							
9		SPARE				1							
11		SPARE				1							
13		SPARE				1							
15		SPARE				1							
17		SPARE				1							
19		SPARE				1							
21		SPARE				1							
23		SPARE				1							
25		SPARE				1							
27		SPARE				1							
29		SPARE				1							
31		SPARE				1							
33		SPARE				1							
35		SPARE				1							
37													
39													
41													

CKT NO.		LOAD DESCRIPTION	NOTE	WIRE SIZE		20/1	'	'	'	'	'	'	'
2						1							
4						1							
6		SPARE				1							
8		SPARE				1							
10		SPARE				1							
12		SPARE				1							
14		SPARE				1							
16		SPARE				1							
18		SPARE				1							
20		SPARE				1							
22		SPARE				1							
24		SPARE				1							
26		SPARE				1							
28		SPARE				1							
30		SPARE				1							
32		SPARE				1							
34		SPARE				1							
36		SPARE				1							
38													
40													
42													

PANELBOARD: PP12A (G3) 150 A, 208Y/120 V, 3PH, 4W, 60HZ

- [ ] MAIN LUG ONLY
- [x] MAIN CIRCUIT BREAKER
- [x] FLUSH MOUNTED
- [ ] SURFACE MOUNTED

65K AIC
225A BUS AMPS RATING

- [ ] SHUNT TRIP MAIN
- [ ] 200% RATED NEUTRAL
- [ ] ISOLATED GROUND
- [ ] FEED THRU LUGS
- [ ] 100% RATED MAIN BREAKER
- [ ] GROUND FAULT MAIN C.B.
- [ ] COMPUTER PANEL
- [ ] SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N..
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N..
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N..
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.		LOAD DESCRIPTION	NOTE	WIRE SIZE		20/1	30/2	40/2	'	'	'	'	'
1		REFG	G	12		1							
3		DRYER		10			1						
5													
7		COOKTOP		8				1					
9													
11		RANGE HOOD				1							
13		RECEPTACLES				1							
15		SPARE				1							
17		SPARE				1							
19		SPARE				1							
21		SPARE				1							
23		SPARE				1							
25		SPARE				1							
27		SPARE				1							
29		SPARE				1							
31		SPARE				1							
33		SPARE				1							
35		SPARE				1							
37		SPARE				1							
39		SPARE				1							
41		SPARE				1							

CKT NO.		LOAD DESCRIPTION	NOTE	WIRE SIZE		20/1	30/2	'	'	'	'	'	'
2		DISHWASHER	G	12		1							
4		WASHER	G	12		1							
6		WALL OVEN		10			1						
8													
10		RECEPTACLES		12		1							
12		RECEPTACLES		12		1							
14		RECEPTACLES		12		1							
16		RECEPTACLES		12		1							
18		SPARE				1							
20		SPARE				1							
22		SPARE				1							
24		SPARE				1							
26		SPARE				1							
28		SPARE				1							
30		SPARE				1							
32		SPARE				1							
34		SPARE				1							
36		SPARE				1							
38		SPARE				1							
40		SPARE				1							
42		SPARE				1							

PANELBOARD: PP13A (P1) 100 A, 480Y/277 V, 3PH, 4W, 60HZ

- [ ] MAIN LUG ONLY
- [x] MAIN CIRCUIT BREAKER
- [ ] FLUSH MOUNTED
- [x] SURFACE MOUNTED

65K AIC
225A BUS AMPS RATING

- [ ] SHUNT TRIP MAIN
- [ ] 200% RATED NEUTRAL
- [ ] ISOLATED GROUND
- [ ] FEED THRU LUGS
- [ ] 100% RATED MAIN BREAKER
- [ ] GROUND FAULT MAIN C.B.
- [ ] COMPUTER PANEL
- [ ] SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N..
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N..
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N..
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.		LOAD DESCRIPTION	NOTE	WIRE SIZE		20/1	'	'	'	'	'	'	'
1		TERMINAL BOXES		10		1							
3						1							
5		RECEPTACLES		10		1							
7		SPARE				1							
9		SPARE				1							
11		SPARE				1							
13		SPARE				1							
15		SPARE				1							
17		SPARE				1							
19		SPARE				1							
21		SPARE				1							
23		SPARE				1							
25		SPARE				1							
27		SPARE				1							
29		SPARE				1							
31		SPARE				1							
33		SPARE				1							
35		SPARE				1							
37		SPARE				1							
39		SPARE				1							
41		SPARE				1							

CKT NO.		LOAD DESCRIPTION	NOTE	WIRE SIZE		20/1	'	'	'	'	'	'	'
2		TERMINAL BOXES		10		1							
4		WATER COOLER		10		1							
6		SPARE				1							
8		SPARE				1							
10		SPARE				1							
12		SPARE				1							
14		SPARE				1							
16		SPARE				1							
18		SPARE				1							
20		SPARE				1							
22		SPARE				1							
24		SPARE				1							
26		SPARE				1							
28		SPARE				1							
30		SPARE				1							
32		SPARE				1							
34		SPARE				1							
36		SPARE				1							
38		SPARE				1							
40		SPARE				1							
42		SPARE				1							

PANELBOARD: LM43 (Q) 600 A, 480Y/277 V, 3PH, 4W, 60HZ

- [ ] MAIN LUG ONLY
- [x] MAIN CIRCUIT BREAKER
- [ ] FLUSH MOUNTED
- [x] SURFACE MOUNTED

65K AIC
600A BUS AMPS RATING

- [ ] SHUNT TRIP MAIN
- [ ] 200% RATED NEUTRAL
- [ ] ISOLATED GROUND
- [ ] FEED THRU LUGS
- [x] 100% RATED MAIN BREAKER
- [ ] GROUND FAULT MAIN C.B.
- [ ] COMPUTER PANEL
- [ ] SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N..
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N..
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N..
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.		LOAD DESCRIPTION	NOTE	WIRE SIZE		20/1	70/3	25/3	60/3	50/3	30/3	20/3	'
1													
3		RTU-1		10				1					
5													
7													
9		RTU-6		6					1				
11													
13													
15		RTU-7		6					1				
17													
19													
21		RTU-8		8						1			
23													
25													
27		RTU-12		10							1		
29													
31													
33		RTU-13		10							1		
35													
37													
39		EF-1		12								1	
41													
43		SPARE				1							
45		SPARE				1							
47		SPARE				1							
49		SPARE				1							
51		SPARE				1							
53		SPARE				1							
55		SPARE				1							
57		SPARE				1							
59		SPARE				1							
61		SPARE				1							
63		SPARE				1							
65		SPARE				1							
67		SPARE				1							
69		SPARE				1							
71		SPARE				1							
73		SPARE				1							
75		SPARE				1							
77		SPARE				1							
79		SPARE				1							
81		SPARE				1							
83		SPARE				1							

CKT NO.		LOAD DESCRIPTION	NOTE	WIRE SIZE		20/1	70/3	60/3	50/3	35/3	70/3	20/3	'
2													
4		RTU-4		4			1						
6													
8													
10		RTU-5		6				1					
12													
14													
16		RTU-9		8					1				
18													
20													
22		RTU-10		8					1				
24													
26													
28		RTU-11		8						1			
30													
32													
34		EF-3		12								1	
36													
38													
40		PANEL PM43 VIA XFMR TP43		SEE XFMR SCH							1		
42													
44		SPARE				1							
46		SPARE				1							
48		SPARE				1							
50		SPARE				1							
52		SPARE				1							
54		SPARE				1							
56		SPARE				1							
58		SPARE				1							
60		SPARE				1							
62		SPARE				1							
64		SPARE				1							
66		SPARE				1							
68		SPARE				1							
70		SPARE				1							
72		SPARE				1							
74		SPARE				1							
76		SPARE				1							
78		SPARE				1							
80		SPARE				1							
82		SPARE				1							
84		SPARE				1							

PANELBOARD: CP13A (P2) 100 A, 480Y/277 V, 3PH, 4W, 60HZ

- [ ] MAIN LUG ONLY
- [x] MAIN CIRCUIT BREAKER
- [ ] FLUSH MOUNTED
- [x] SURFACE MOUNTED

65K AIC
225A BUS AMPS RATING

- [ ] SHUNT TRIP MAIN
- [x] 200% RATED NEUTRAL
- [ ] ISOLATED GROUND
- [ ] FEED THRU LUGS
- [ ] 100% RATED MAIN BREAKER
- [ ] GROUND FAULT MAIN C.B.
- [x] COMPUTER PANEL
- [x] SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N..
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N..
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N..
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.		LOAD DESCRIPTION	NOTE	WIRE SIZE		20/1	'	'	'	'	'	'	'
1		RECEPTACLES		10		1							
3		SPARE				1							
5		SPARE				1							
7		SPARE				1							
9		SPARE				1							
11		SPARE				1							
13		SPARE				1							
15		SPARE				1							
17		SPARE				1							
19		SPARE				1							
21		SPARE				1							
23		SPARE				1							
25		SPARE				1							
27		SPARE				1							
29		SPARE				1							
31		SPARE				1							
33		SPARE				1							
35		SPARE				1							
37		SPARE				1							
39		SPARE				1							
41		SPARE				1							

CKT NO.		LOAD DESCRIPTION	NOTE	WIRE SIZE		20/1	'	'	'	'	'	'	40/3
2													
4		ZHF13A		SEE ZHF SCH									1
6													
8		SPARE				1							
10		SPARE				1							
12		SPARE				1							
14		SPARE				1							
16		SPARE				1							
18		SPARE				1							
20		SPARE				1							
22		SPARE				1							
24		SPARE				1							
26		SPARE				1							
28		SPARE				1							
30		SPARE				1							
32		SPARE				1							
34		SPARE				1							
36		SPARE				1							
38		SPARE				1							
40		SPARE				1							
42		SPARE				1							

PANELBOARD: PM43 (Q1) 175 A, 208Y/120 V, 3PH, 4W, 60HZ

- [ ] MAIN LUG ONLY
- [x] MAIN CIRCUIT BREAKER
- [ ] FLUSH MOUNTED
- [x] SURFACE MOUNTED

65K AIC
200A BUS AMPS RATING

- [ ] SHUNT TRIP MAIN
- [ ] 200% RATED NEUTRAL
- [ ] ISOLATED GROUND
- [ ] FEED THRU LUGS
- [ ] 100% RATED MAIN BREAKER
- [ ] GROUND FAULT MAIN C.B.
- [ ] COMPUTER PANEL
- [ ] SURGE PROTECTION DEVICE

NOTES
LC = VIA LIGHTING CONTROL PANEL
L = PROVIDE LOCK ON CB
IG = ISOLATED GROUND
P = GFPE - 30 mA TRIP
G = GFCI - 5mA TRIP
S = SHUNT TRIP
A = ARC FAULT CIRCUIT BREAKER
3 = 3W + G

GENERAL NOTES
1. FOR SINGLE POLE CIRCUIT BREAKERS, PROVIDE 2 WIRES + GROUND, U.O.N..
2. FOR TWO POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N..
3. FOR THREE POLE CIRCUIT BREAKERS, PROVIDE 3 WIRES + GROUND, U.O.N..
4. WIRE SIZES AS SHOWN ON PANEL

CKT NO.		LOAD DESCRIPTION	NOTE	WIRE SIZE		20/1	20/2	40/2	'	'	'	'	'
1		DFC-1/CU-1		8				1					
3													
5		DFC-2/CU-2		8				1					
7													
9		DFC-6/CU-6		8				1					
11													
13		DFC-4/CU-4		12			1						
15													
17		DFC-3/CU-3		8				1					
19													
21		DFC-8/CU-8		12			1						
23													
25		DFC-9/CU-9		12			1						
27													
29		DFC-12/CU-12		8				1					
31													
33		SPARE				1							
35		SPARE				1							
37		SPARE				1							
39		SPARE				1							
41		SPARE				1							

CKT NO.		LOAD DESCRIPTION	NOTE	WIRE SIZE		20/1	20/2	20/3	30/3	40/2	'	'	'
2		DFC-5/CU-5		8						1			
4													
6													
8		EF-2		12				1					
10													
12		DFC-7/CU-7		8						1			
14													
16		EF-4		12		1							
18													
20		EF-5		10					1				
22													
24		EF-6		12		1							
26		EF-7		12		1							
28		EF-8		12		1							
30		EF-10		12			1						
32													
34		SPARE				1							
36		SPARE				1							
38		SPARE				1							
40		SPARE				1							
42		SPARE				1							

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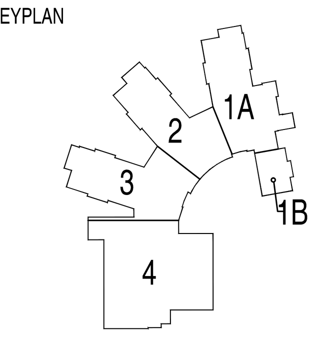


DRAWING NAME:

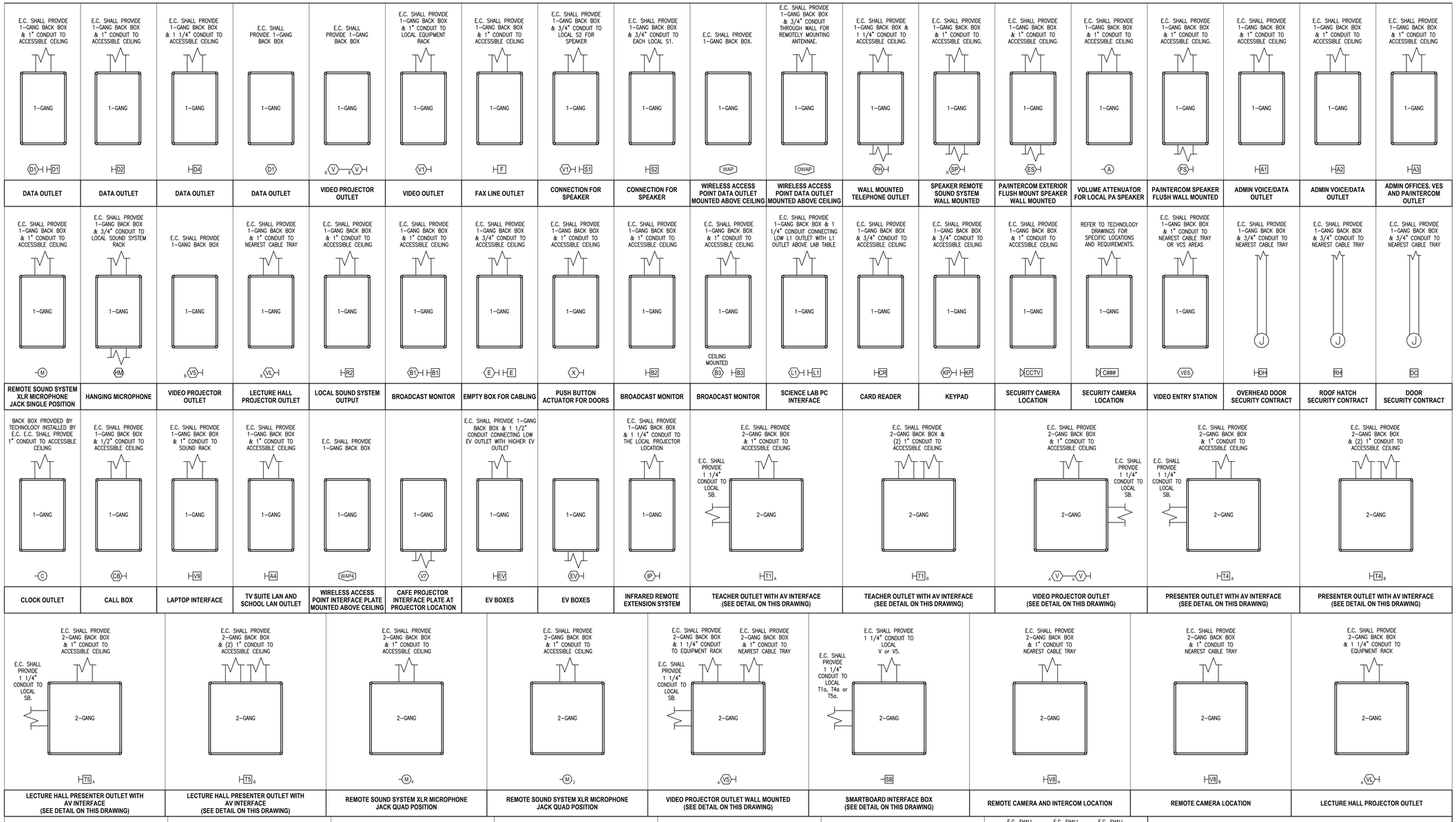
SCHEDULES ELECTRICAL

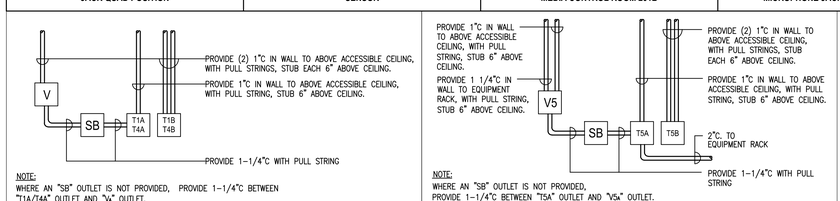
DRAWN BY: JGM

REVIEWED BY: RCB

SCALE: N.T.S.
JOB NO.: 1403.00
DATE: July 25, 2016

DRAWING NUMBER: E5.09





1	TYPICAL TEACHING STATION AND PROJECTOR DETAIL	SCALE: N.T.S.

2	LECTURE HALL TEACHING STATION DETAIL	SCALE: N.T.S.

1. ELECTRICAL CONTRACTOR SHALL REFER TO DIVISION 27 COMMUNICATIONS AND DIVISION 28 ELECTRONIC SAFETY AND SECURITY SPECIFICATIONS AND DRAWINGS FOR LOCATIONS OF DIVISION 27 COMMUNICATIONS AND DIVISION 28 ELECTRONIC SAFETY AND SECURITY OUTLETS. ELECTRICAL CONTRACTOR SHALL PROVIDE BACK BOXES AND CONDUIT AS REQUIRED BY THE ELECTRICAL SPECIFICATIONS, THIS DRAWING, THE DIVISION 27 COMMUNICATIONS AND DIVISION 28 ELECTRONIC SAFETY AND SECURITY SPECIFICATIONS AND DRAWINGS.

2. ELECTRICAL CONTRACTOR SHALL REFER TO DIVISION 27 COMMUNICATIONS AND DIVISION 28 ELECTRONIC SAFETY AND SECURITY SPECIFICATIONS AND DRAWINGS FOR LOCATIONS OF CONDUITS. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUITS BETWEEN MDF AND IDF ROOMS, BETWEEN FIBER DISTRIBUTION BOXES AND FIBER DISTRIBUTION BOXES, FIBER DISTRIBUTION BOXES AND SITE LIGHTING POLES, FIBER DISTRIBUTION BOXES AND DIGITAL SIGNS, TECHNOLOGY CLOSETS AND AND SITE LIGHTING POLES, AS REQUIRED BY THE DIVISION 27 COMMUNICATIONS AND DIVISION 28 ELECTRONIC SAFETY AND SECURITY SPECIFICATIONS AND DRAWINGS.

3. ELECTRICAL CONTRACTOR SHALL REFER TO DIVISION 27 COMMUNICATIONS AND DIVISION 28 ELECTRONIC SAFETY AND SECURITY SPECIFICATIONS AND DRAWINGS FOR DIVISION 27 COMMUNICATIONS AND DIVISION 28 ELECTRONIC SAFETY AND SECURITY OUTLET MOUNTING HEIGHTS.

4. IF THERE ARE DISCREPANCIES BETWEEN THE ELECTRICAL DRAWINGS AND SPECIFICATIONS AND THE DIVISION 27 COMMUNICATIONS AND DIVISION 28 ELECTRONIC SAFETY AND SECURITY DRAWINGS AND SPECIFICATIONS, THE DIVISION 27 COMMUNICATIONS AND DIVISION 28 ELECTRONIC SAFETY AND SECURITY DRAWINGS AND SPECIFICATIONS SHALL GOVERN.

5. ELECTRICAL CONTRACTOR SHALL PROVIDE CABLE TRAY AS INDICATED ON DIVISION 27 COMMUNICATIONS AND DIVISION 28 ELECTRONIC SAFETY AND SECURITY SPECIFICATIONS AND DRAWINGS.

6. WHERE ELECTRICAL DRAWINGS INDICATE A FLOOR BOX OR A FIRE RATED POKE THRU, ELECTRICAL CONTRACTOR SHALL REFER TO DIVISION 27 COMMUNICATIONS AND DIVISION 28 ELECTRONIC SAFETY AND SECURITY SPECIFICATIONS AND DRAWINGS TO DETERMINE DIVISION 27 COMMUNICATIONS AND DIVISION 28 ELECTRONIC SAFETY AND SECURITY OUTLET REQUIREMENTS, TO BE PROVIDED IN FLOOR BOX OR FIRE RATED POKE THRU. FLOOR BOX OR POKE THRU SHALL BE OF SUFFICIENT SIZE TO INCLUDE ALL RECEPTACLE AND DIVISION 27 COMMUNICATIONS AND DIVISION 28 ELECTRONIC SAFETY AND SECURITY OUTLET REQUIREMENTS AT LOCATION.

7. ELECTRICAL CONTRACTOR SHALL REFER TO DIVISION 27 COMMUNICATIONS AND DIVISION 28 ELECTRONIC SAFETY AND SECURITY SPECIFICATIONS AND DRAWINGS FOR GROUNDING. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUNDING AS REQUIRED BY DIVISION 27 COMMUNICATIONS AND DIVISION 28 ELECTRONIC SAFETY AND SECURITY SPECIFICATIONS AND DRAWINGS.

8. DIVISION 27 COMMUNICATIONS AND DIVISION 28 ELECTRONIC SAFETY AND SECURITY DRAWINGS: T1.04, T1.10 THRU T1.14, T1.20 THRU T1.24, T1.30 THRU T1.34, T1.40 THRU T1.44, T2.1 THRU T2.10.

DIVISION 27 COMMUNICATIONS AND DIVISION 28 ELECTRONIC SAFETY AND SECURITY NOTES

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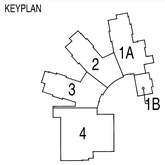
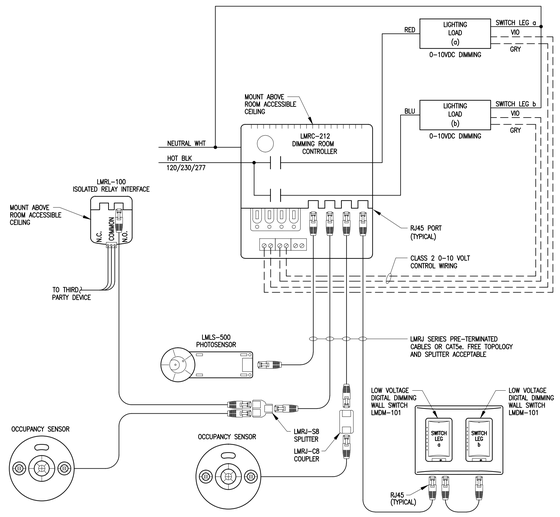


DRAWING NAME:
DETAILS ELECTRICAL

DRAWN BY: JGM
REVIEWED BY: RCB
SCALE: N.T.S.
JOB NO.: 1403.00
DATE: July 25, 2016
DRAWING NUMBER: E6.01



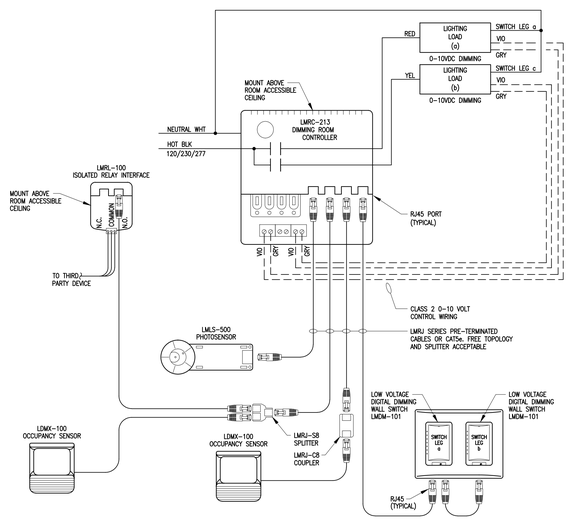
GENERAL NOTES:

1. CATALOG NUMBERS INDICATED ARE AS MANUFACTURED BY WATT STOPPER DLM. LIGHTING CONTROL SHALL BE BY WATT STOPPER DLM OR EQUAL.
2. PROVIDE ALL EQUIPMENT, CABLING, ETC. AS INDICATED ON THIS DETAIL FOR EACH CLASSROOM. REFER TO LIGHTING PLANS FOR LOCATIONS OF OCCUPANCY SENSORS, PHOTOSENSORS, TWO BUTTON LOW VOLTAGE DIGITAL WALL SWITCHES, AND LOW VOLTAGE DIGITAL DIMMING WALL SWITCHES.
3. CATEGORY 5e CABLING SHALL BE PROVIDED BY WATT STOPPER OR EQUAL.

SEQUENCE OF OPERATION:

1. WHEN AN OCCUPANT ENTERS THE ROOM LIGHTING FIXTURES IN CLASSROOM NEED TO BE MANUALLY TURNED ON VIA LOW VOLTAGE DIGITAL DIMMING SWITCHES "a", "b", "c" AND "d".
2. IF ALL LIGHTING FIXTURES IN CLASSROOM ARE ON, LIGHTING FIXTURES WITH SUBSCRIPT "c" AND "d" WILL BE AUTOMATICALLY DIMMED VIA PHOTOSENSOR, DEPENDING ON NATURAL LIGHT IN SPACE.
3. LIGHTING FIXTURES IN CLASSROOM WITH SUBSCRIPT "a" CAN BE MANUALLY DIMMED VIA LOW VOLTAGE DIGITAL DIMMING SWITCH, WITH THE ABILITY TO DIM DOWN OR TEMPORARILY DIM ABOVE DAYLIGHT PHOTOSENSOR SET POINT.
4. LIGHTING FIXTURES IN CLASSROOM WITH SUBSCRIPT "b" CAN BE MANUALLY DIMMED VIA LOW VOLTAGE DIGITAL DIMMING SWITCH, WITH THE ABILITY TO DIM DOWN OR TEMPORARILY DIM ABOVE DAYLIGHT PHOTOSENSOR SET POINT.
5. LIGHTING FIXTURES IN CLASSROOM WITH SUBSCRIPT "c" CAN BE MANUALLY DIMMED VIA LOW VOLTAGE DIGITAL DIMMING SWITCH, WITH THE ABILITY TO DIM DOWN OR TEMPORARILY DIM ABOVE DAYLIGHT PHOTOSENSOR SET POINT.
6. LIGHTING FIXTURES IN CLASSROOM WITH SUBSCRIPT "d" CAN BE MANUALLY DIMMED VIA LOW VOLTAGE DIGITAL DIMMING SWITCH, WITH THE ABILITY TO DIM DOWN OR TEMPORARILY DIM ABOVE DAYLIGHT PHOTOSENSOR SET POINT.
7. IF THE OCCUPANTS LEAVE THE CLASSROOM, AFTER 15 MINUTES ALL LIGHTING FIXTURES WILL SHUTOFF VIA OCCUPANCY SENSORS.

1 TYPICAL CLASSROOM LIGHTING CONTROL DETAIL — SCALE: N.T.S.



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2. PROVIDE ALL EQUIPMENT, CABLING, ETC. AS INDICATED ON THIS DETAIL FOR EACH CLASSROOM. REFER TO LIGHTING PLANS FOR LOCATIONS OF OCCUPANCY SENSORS, PHOTOSENSORS, TWO BUTTON LOW VOLTAGE DIGITAL WALL SWITCHES, AND LOW VOLTAGE DIGITAL DIMMING WALL SWITCHES.
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SEQUENCE OF OPERATION:

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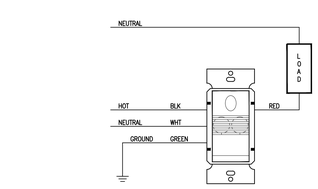
2. IF ALL LIGHTING FIXTURES IN CLASSROOM ARE ON, LIGHTING FIXTURES WITH SUBSCRIPT "c" AND "b" WILL BE AUTOMATICALLY DIMMED VIA PHOTOSENSOR, DEPENDING ON NATURAL LIGHT IN SPACE.
3. LIGHTING FIXTURES IN CLASSROOM WITH SUBSCRIPT "a" CAN BE MANUALLY DIMMED VIA LOW VOLTAGE DIGITAL DIMMING SWITCH, WITH THE ABILITY TO DIM DOWN OR TEMPORARILY DIM ABOVE DAYLIGHT PHOTOSENSOR SET POINT.
4. LIGHTING FIXTURES IN CLASSROOM WITH SUBSCRIPT "b" CAN BE MANUALLY DIMMED VIA LOW VOLTAGE DIGITAL DIMMING SWITCH, WITH THE ABILITY TO DIM DOWN OR TEMPORARILY DIM ABOVE DAYLIGHT PHOTOSENSOR SET POINT.
5. IF THE OCCUPANTS LEAVE THE CLASSROOM, AFTER 15 MINUTES ALL LIGHTING FIXTURES WILL SHUTOFF VIA OCCUPANCY SENSORS.

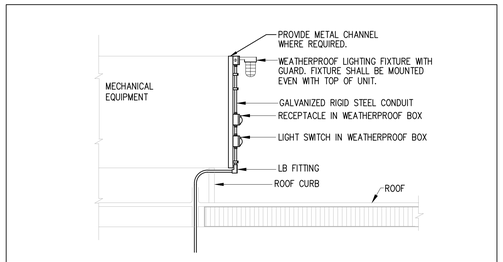
2 CLASSROOM LIGHTING CONTROL DETAIL — SCALE: N.T.S.



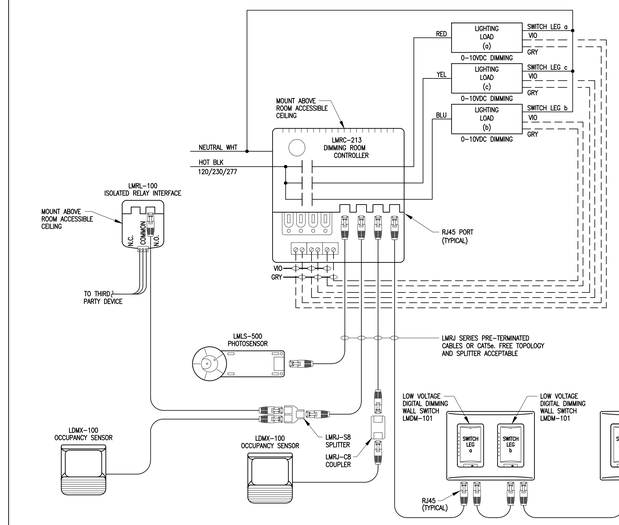
WIRING DETAIL FOR OCCUPANCY SENSORS:

OS

3 WALL MOUNTED OCCUPANCY SENSOR WIRING DETAIL — SCALE: N.T.S.



4 ROOF TOP RECEPTACLE, LIGHT AND SWITCH MOUNTING DETAIL — SCALE: N.T.S.



GENERAL NOTES:

1. CATALOG NUMBERS INDICATED ARE AS MANUFACTURED BY WATT STOPPER DLM. LIGHTING CONTROL SHALL BE BY WATT STOPPER DLM OR EQUAL.
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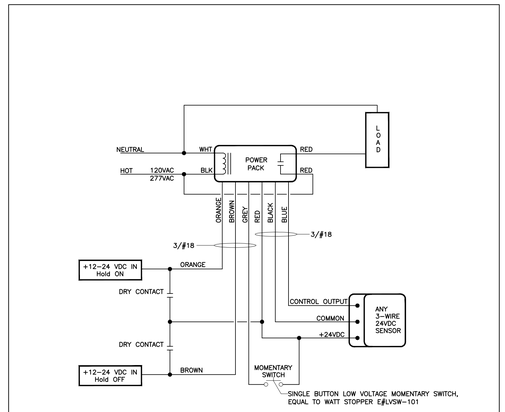
3. CATEGORY 5e CABLING SHALL BE PROVIDED BY WATT STOPPER OR EQUAL.

SEQUENCE OF OPERATION:

1. WHEN AN OCCUPANT ENTERS THE ROOM LIGHTING FIXTURES IN CLASSROOM NEED TO BE MANUALLY TURNED ON VIA LOW VOLTAGE DIGITAL DIMMING SWITCHES "a", "b" AND "c".
2. IF ALL LIGHTING FIXTURES IN CLASSROOM ARE ON, LIGHTING FIXTURES WITH SUBSCRIPT "c" WILL BE AUTOMATICALLY DIMMED VIA PHOTOSENSOR, DEPENDING ON NATURAL LIGHT IN SPACE.
3. LIGHTING FIXTURES IN CLASSROOM WITH SUBSCRIPT "a" CAN BE MANUALLY DIMMED VIA LOW VOLTAGE DIGITAL DIMMING SWITCH, WITH THE ABILITY TO DIM DOWN OR TEMPORARILY DIM ABOVE DAYLIGHT PHOTOSENSOR SET POINT.
4. LIGHTING FIXTURES IN CLASSROOM WITH SUBSCRIPT "b" CAN BE MANUALLY DIMMED VIA LOW VOLTAGE DIGITAL DIMMING SWITCH, WITH THE ABILITY TO DIM DOWN OR TEMPORARILY DIM ABOVE DAYLIGHT PHOTOSENSOR SET POINT.
5. LIGHTING FIXTURES IN CLASSROOM WITH SUBSCRIPT "c" CAN BE MANUALLY DIMMED VIA LOW VOLTAGE DIGITAL DIMMING SWITCH, WITH THE ABILITY TO DIM DOWN OR TEMPORARILY DIM ABOVE DAYLIGHT PHOTOSENSOR SET POINT.
6. IF THE OCCUPANTS LEAVE THE CLASSROOM, AFTER 15 MINUTES ALL LIGHTING FIXTURES WILL SHUTOFF VIA OCCUPANCY SENSORS.

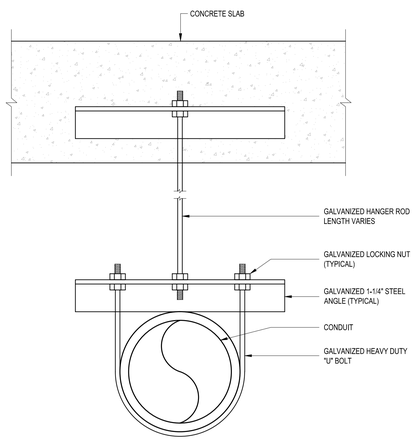
5 CLASSROOM LIGHTING CONTROL DETAIL — SCALE: N.T.S.



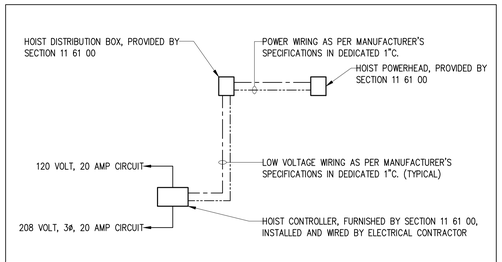
WIRING DETAIL FOR OCCUPANCY SENSORS:

C
OS

6 LIGHTING WIRING DETAIL WITH OCCUPANCY SENSORS - MANUAL ON — SCALE: N.T.S.



7 TYPICAL CONDUIT HANGER DETAIL BELOW SLAB — SCALE: N.T.S.



6 HOIST CONTROL DETAIL — SCALE: N.T.S.

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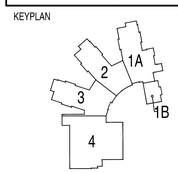
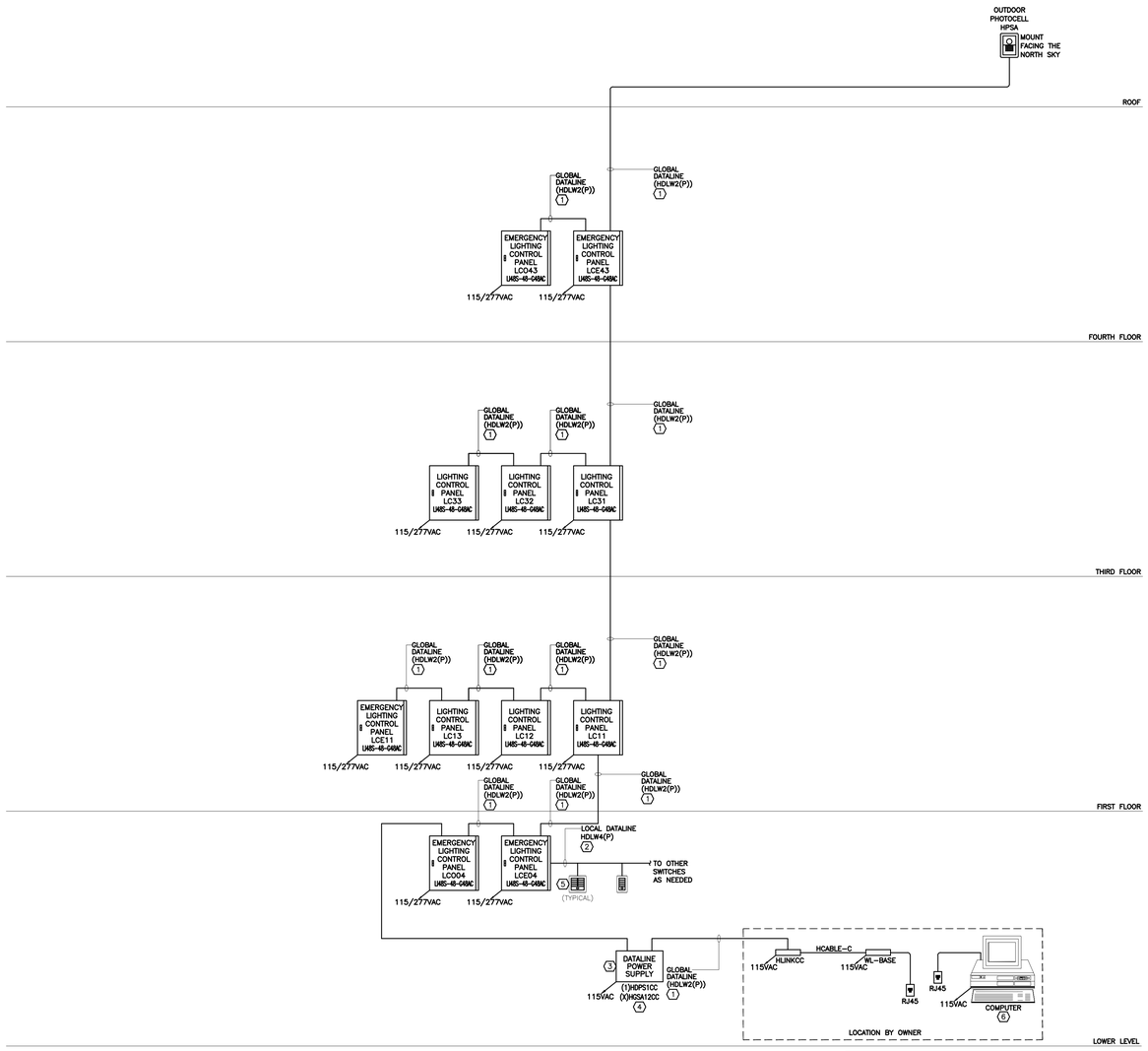


DRAWING NAME:

DETAILS ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	N.T.S.
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	E6.02

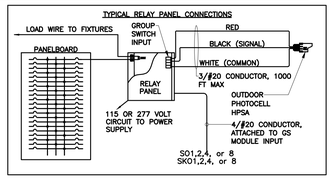


NOTES:

1. THE GLOBAL DATALINE IS A 2/#18 TWISTED, SHIELDED DATALINE (HDLW2(P)) THAT SHOULD ONLY BE SPLICED IN THE LIGHTING CONTROL PANELS. THE DATALINE MAY BE SPLICED TO FORM A STAR OR FREE TOPOLOGY AS REQUIRED DO NOT GROUND THE SHIELD. THE DATALINE ROUTING SHOWN IS DIAGRAMMATIC ONLY.
2. THE LOCAL DATALINE PROVIDES COMMUNICATION AND POWER TO DATALINE SWITCHES. THE MAXIMUM LENGTH OF A LOCAL DATALINE FROM EACH LI PANEL WITH AN AUTOMATION CARD IS (1500ft) USING FREE TOPOLOGY WITHOUT A REPEATER AND (8000ft) USING LINEAR TOPOLOGY.
3. THE DATALINE POWER SUPPLY/OPTIONS PANEL (HDPS1CC) CAN BE PLACED ANYWHERE ON THE GLOBAL DATALINE ACCESSIBLE TO OPTIONAL TELEPHONE LINES OR GLOBAL INPUTS.
4. ONE TELEPHONE OVERRIDE CARD (HPHO1CC OR HPHO2CC) AND TWO 12-INPUT GLOBAL INPUT CARDS (HGSA12CC) CAN BE INSTALLED IN A DATALINE POWER SUPPLY/OPTIONS PANEL (HDPS1CC).
5. A SINGLE DATALINE SWITCH BUTTON CAN CONTROL ANY GROUP OF RELAYS IN THE PANEL IT TERMINATES IN, OR, BY USING A GROUP CODE, CAN ALSO CONTROL RELAYS IN OTHER PANELS. AVAILABLE IN 1, 2, 4, OR 8 BUTTON SWITCHES.
6. DESKTOP OR LAPTOP COMPUTER PROVIDED BY OWNER, RUNNING WINCONTROL SOFTWARE.

GENERAL NOTES:

1. CATALOG NUMBERS INDICATED ARE AS MANUFACTURED BY WATT STOPPER. LIGHTING CONTROL SHALL BE BY WATT STOPPER OR EQUAL.

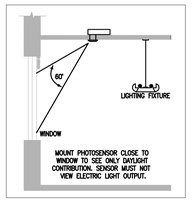


LIGHTING INTEGRATOR PART NUMBER CONSISTS OF THE FOLLOWING COMPONENTS:

(1) ENCLOSURE
(2) COVER
(3) POWER SUPPLY
(4) INTERIOR INCLUDING
MOTHER BOARD
RELAY DRIVER CARDS
COMMUNICATION CARD
AUTOMATION CARD
GROUP SWITCH CARD(S)
RELAYS INSTALLED IN BARRIER

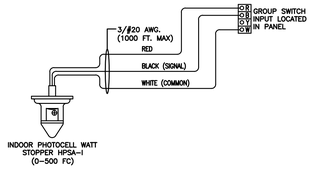
TYPICAL SINGLE LINE LIGHTING INTEGRATOR PANEL COMMUNICATION LEVEL

SCALE: N.T.S.



PHOTOSENSOR PLACEMENT DETAIL

SCALE: N.T.S.



HPSA PHOTOSENSOR WIRING DETAIL

SCALE: N.T.S.

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KEYNOTE LEGEND:

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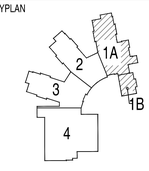
KEYPLAN



DRAWING NAME:

DETAILS ELECTRICAL

DRAWN BY: JGM

REVIEWED BY: RCB

SCALE: N.T.S.

JOB NO.: 1403.00

DATE: July 25, 2016

DRAWING NUMBER: E6.03

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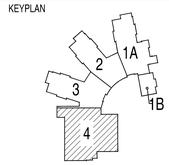
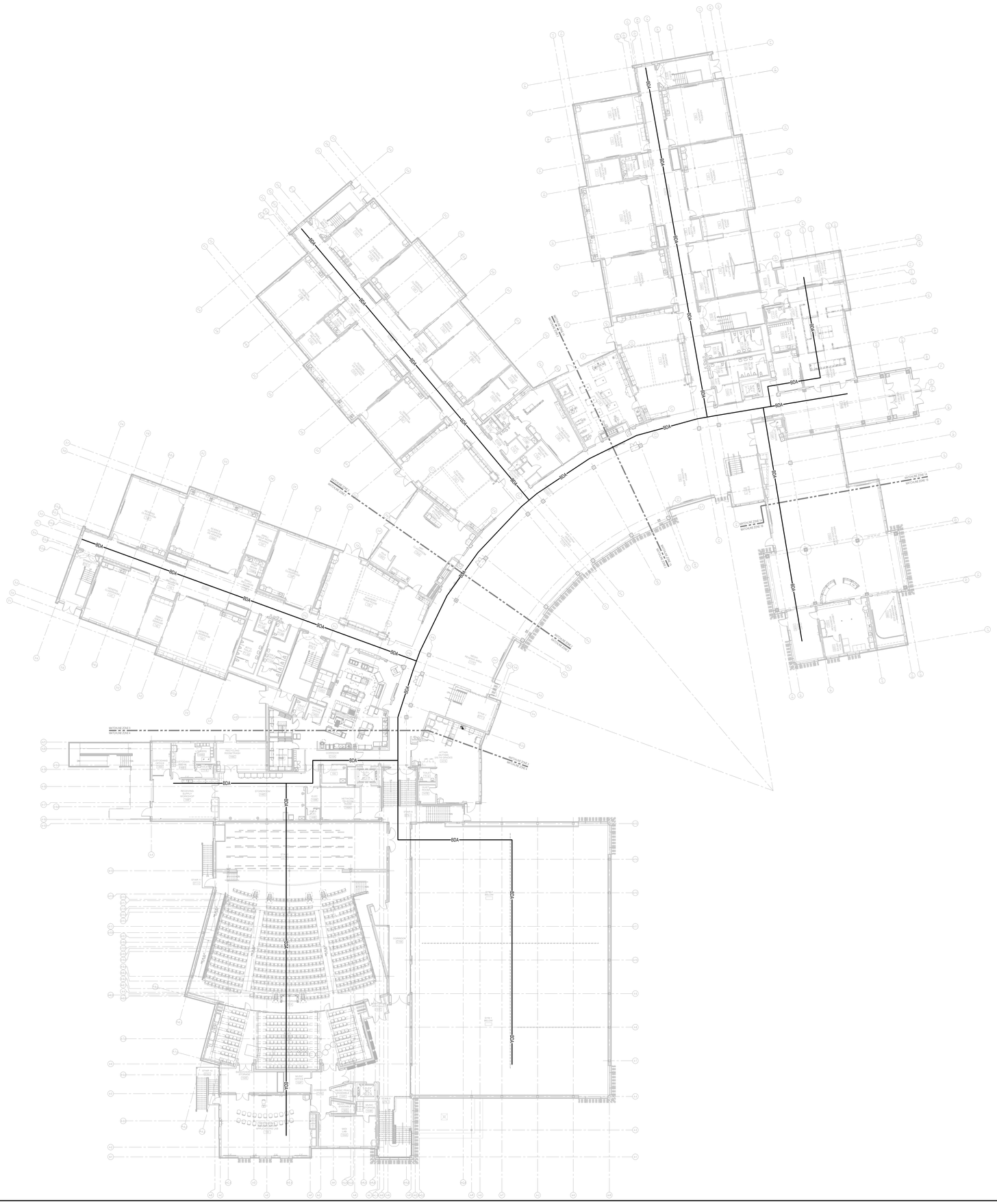


DRAWING NAME:

LOWER LEVEL BI-DIRECTIONAL AMPLIFIER PLAN ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	1"=20'-0"
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	E7.00



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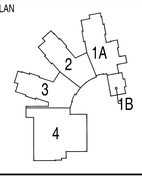
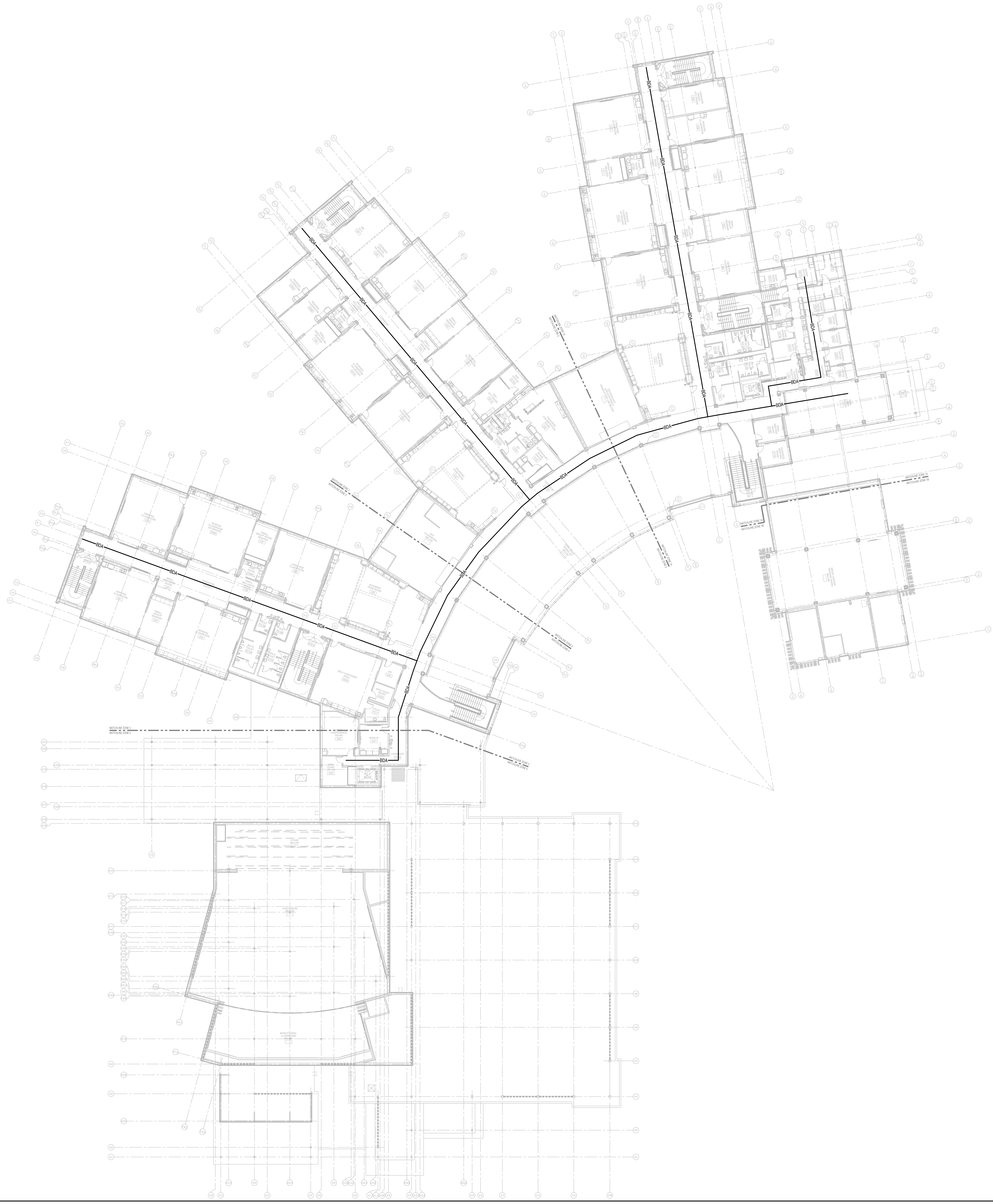


DRAWING NAME:

FIRST FLOOR BI-DIRECTIONAL AMPLIFIER PLAN ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: 1"=20'-0"	DRAWING NUMBER:
JOB NO.: 1403.00	E7.01
DATE: July 25, 2016	



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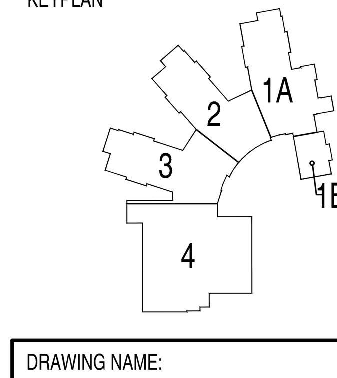

DRAWING NAME:

SECOND FLOOR BI-DIRECTIONAL AMPLIFIER PLAN ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE:	1"=20'-0"
JOB NO.:	1403.00
DATE:	July 25, 2016
DRAWING NUMBER:	E7.02

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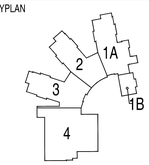

DRAWING NAME:

THIRD FLOOR BI-DIRECTIONAL AMPLIFIER PLAN ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: 1"=20'-0"	DRAWING NUMBER:
JOB NO.: 1403.00	E7.03
DATE: July 25, 2016	

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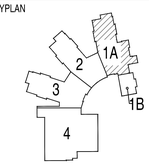

DRAWING NAME:

FOURTH FLOOR BI-DIRECTIONAL AMPLIFIER PLAN ELECTRICAL

DRAWN BY:	JGM
REVIEWED BY:	RCB
SCALE: 1"=20'-0"	DRAWING NUMBER:
JOB NO.: 1403.00	E7.04
DATE: July 25, 2016	