

GENERAL ELECTRICAL NOTES

- 61. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL AND STATE CODES.
- 62. ALL MATERIAL, EQUIPMENT AND APPLIANCES SHALL BE NEW AND SHALL CONFORM TO THE STANDARDS OF THE UNDERWRITERS LABORATORIES, INC. AND THE NATIONAL MANUFACTURERS ASSOCIATION.
- 63. ALL ELECTRICAL PERMITS AND INSPECTION FEES SHALL BE OBTAINED AND PAID FOR BY THE ELECTRICAL CONTRACTOR.
- 64. ELECTRICAL CONTRACT DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL EQUIPMENT. DO NOT SCALE ELECTRICAL PLANS. OBTAIN ALL DIMENSIONS FROM THE ARCHITECT'S DIMENSIONED DRAWINGS AND FIELD MEASUREMENTS. THE CONTRACTOR SHALL REVIEW ARCHITECTURAL PLANS FOR DOOR SWINGS AND BUILT-IN EQUIPMENT, CONDITIONS INDICATED ON THOSE PLANS SHALL GOVERN FOR THIS WORK.
- 65. VERIFY ALL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE PRIOR TO STARTING ANY WORK SUCH AS VOLTAGE, PHASES, FAULT CURRENT, ETC. AND COORDINATE EXACT LOCATION OF INCOMING ELECTRICAL SERVICE WITH LOCAL POWER COMPANY PRIOR TO PROJECT START. NOTIFY ENGINEER OF ANY DIFFERENCES FROM WHAT IS SHOWN ON PLANS.
- 66. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR EFFECTIVE FROM THE DATE OF SUBSTANTIAL COMPLETION.
- 67. A COMPLETE GROUNDING SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE NEC, AND AS SHOWN ON THE DRAWINGS.
- 68. ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. DO NOT CUT ANY MATERIAL THAT WILL WEAKEN THE STRUCTURE WITHOUT WRITTEN PERMISSION OF THE ARCHITECT. PATCHING SHALL BE ACCOMPLISHED TO MATCH ADJACENT SURFACES IN EVERY RESPECT. ENGAGE ORIGINAL INSTALLER FOR CUTTING/PATCHING OF ROOFS.
- 69. PROVIDE A TYPED DIRECTORY IN ALL PANELBOARDS CLEARLY DESCRIBING THE LOCATION AND TYPE OF LOAD SERVED FOR ALL CIRCUITS.
- 610. THE ELECTRICAL CONTRACTOR SHALL REQUEST A SELECTIVE BREAKER COORDINATION STUDY FROM THE ELECTRICAL GEAR MANUFACTURER PER NEC 700 REQUIREMENTS.
- 611. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL PANELBOARDS AND DISCONNECT SWITCHES, WHITE LETTERS ON BLACK BACKGROUND. NAMEPLATE SHALL CONTAIN EQUIPMENT DESIGNATION, VOLTAGE, FEEDER SOURCE, AIC RATING & DATE INSTALLED.
- 612. PROVIDE "FLASH HAZARD" LABELS FOR ALL PANELBOARDS IN ACCORDANCE WITH NEC REQUIREMENTS.
- 613. ALL TERMINALS/JUGS SHALL BE 60 DEGREE/75 DEGREE RATED.
- 614. FUSES 0-600 AMPS SHALL BE UL CLASS "RK-9" LOW PEAK DUAL ELEMENT TIME DELAY WITH 200,000 AMPERE INTERRUPTING RATING AS MANUFACTURED BY BUSSMAN UNLESS NOTED OTHERWISE.
- 615. ALL WATER HEATERS SHALL HAVE DISCONNECT SIZED PER 422.1(E)(5).
- 616. ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT REGARDLESS OF WHO SUPPLIES THE EQUIPMENT. THIS INCLUDES ALL HVAC, PLUMBING AND OWNER FURNISHED EQUIPMENT CONNECTIONS OF 120V OR HIGHER.
- 617. RACEWAYS SHALL BE INSTALLED CONCEALED IN NEW WALL CONSTRUCTION, ABOVE CEILING, BELOW FLOOR, AND IN OTHER CAVITIES TO THE GREATEST EXTENT POSSIBLE. WHERE EXPOSED RACEWAYS MUST BE USED, LAYOUT RACEWAYS TO MINIMIZE THE NUMBER OF VERTICAL RUNS.
- 618. ALL EXPOSED RACEWAY SHALL BE RUN PARALLEL OR PERPENDICULAR TO THE BUILDING SURFACES AND SHALL BE PAINTED AS DIRECTED BY THE ARCHITECT. NO EXPOSED CONDUIT SHALL BE ALLOWED IN FINISHED SPACES EXCEPT AS PERMITTED BY OWNER OR ARCHITECT. EXPOSED RACEWAY IN FINISHED SPACES SHALL BE WIREMOLD TYPE.
- 619. BEFORE COMMENCING WITH ANY ROUGH-IN, COORDINATE THE EXACT LOCATION AND MOUNTING HEIGHT OF ALL WALL MOUNTED DEVICES WITH THE ARCHITECTURAL INTERIOR ELEVATIONS, CASEWORK SHOP DRAWINGS, AND EXISTING CONDITIONS. IF ANY DISCREPANCIES ARE DISCOVERED, NOTIFY THE ARCHITECT FOR FURTHER DIRECTION. MINOR ADJUSTMENTS IN DEVICE LOCATION, I.E. 9/16" IN ANY DIRECTION SHALL BE DONE AT NO ADDITIONAL COST TO THE CONTRACT.
- 620. ALL WIRING SHALL BE INSTALLED IN IMC, RMC, EMT OR TYPES AC AND MC FLEXIBLE CABLES. RMC CONDUIT (PVC) SHALL ONLY BE USED UNDERGROUND AND OUTDOORS, WHERE NOT SUBJECT TO PHYSICAL DAMAGE. MINIMUM SIZE CONDUIT SHALL BE 3/4" AC AND MC FLEXIBLE CABLES SHALL BE USED ONLY IN AREAS PERMITTED BY CODE.
- 621. ALL FLEX SHALL BE LIQUID TIGHT FLEXIBLE METAL.
- 622. PROVIDE A PULL WIRE OR FISH TAPE IN ALL EMPTY CONDUITS. PROVIDE A BLANK COVER PLATE OVER ALL UNUSED BOXES INCLUDING DATA/COMM BOXES.
- 623. WHERE A SINGLE HOMERUN IS SHOWN THE CIRCUIT SHALL BE INSTALLED IN A DEDICATED CONDUIT, DO NOT COMBINE WITH OTHER CIRCUITS. WHERE A CIRCUIT HOMERUN IS NOT SHOWN THE CONTRACTOR SHALL COMBINE CIRCUITS AS FOLLOWS AND IN ACCORDANCE WITH THE NEC:
 - A MAXIMUM OF THREE 20A 1 POLE BRANCH CIRCUITS MAY BE COMBINED IN COMMON HOMERUN SHARING A COMMON NEUTRAL OR WITH SEPARATE NEUTRALS, FOR A TOTAL OF SIX CURRENT CARRYING CONDUCTORS. ALL BRANCH CIRCUITS LARGER THAN 20A SHALL BE SEPARATELY HOMERUN TO PANEL.
 - EACH MULTIWIRE BRANCH CIRCUIT SHARING A COMMON NEUTRAL SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES.
- 624. CONDUCTORS SHALL BE COPPER, RATED AT NOT LESS THAN 600 VOLTS. MINIMUM SIZE SHALL BE NO. 12 AWG UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL WIRE #6 AWG AND LARGER SHALL BE STRANDED, #10 THRU #12 AWG CONDUCTORS SHALL BE SOLID. ALL INSULATION TYPES SHALL BE THW/THHN. FEEDER CIRCUIT CONDUCTORS MAY BE COPPER OR ALUMINUM.
- 625. 20A/120V BRANCH CIRCUITS EXCEEDING 100' IN LENGTH FROM PANEL TO FARTHEST DEVICE SHALL USE NO. 10 CONDUCTORS AND 3/4" C.
- 626. FOR EVERY WIRING DEVICE MARK THE BRANCH CIRCUIT TO WHICH IT IS CONNECTED ON THE BACK OF EACH DEVICE PLATE, USING AN INDELEBIL MARKER PEN.
- 627. COORDINATE ALL DEVICE AND DEVICE PLATE COLORS WITH OWNER/ARCHITECT. DEVICES AND DEVICE PLATES LOCATED IN CABINERY SHALL BE A DARK COLOR TO MATCH CABINERY FINISH.
- 628. EXACT LOCATION OF ALL FLOOR-MOUNTED OUTLETS SHALL BE COORDINATED WITH THE OWNER/ARCHITECT BEFORE ROUGH-IN.
- 629. TWO OR MORE ADJACENT POWER OR COMMUNICATION RECEPTACLES SHALL BE GANGED WITH A COMMON FACEPLATE - IF THEY CANNOT BE GANGED THEY SHALL BE INSTALLED WITH A MINIMUM DISTANCE BETWEEN UNITS.
- 630. WALL RECEPTACLES SHOWN BACK TO BACK MAY BE OFFSET BUT SHALL BE INSTALLED DIRECTLY ADJACENT TO ONE ANOTHER.
- 631. LIGHT SWITCHES SHALL BE NO MORE THAN 6" FROM EDGE OF DOOR FRAME.
- 632. WHERE PENETRATIONS ARE MADE THROUGH A REQUIRED FIRE-RESISTIVE WALL, FLOOR, OR PARTITION FOR THE PURPOSE OF RUNNING RACEWAY CARRYING ELECTRICAL, TELEPHONE, TELEVISION OR LOCAL COMMUNICATION AND/OR SIGNALING, THE OPENING AROUND THE RACEWAY SHALL BE FIRE STOPPED PER THE STATE BUILDING CODE. COORDINATION WITH THE GENERAL CONTRACTOR SHALL BE MAINTAINED TO ENSURE THAT THIS FIRE STOPPING IS ACCOMPLISHED. USE APPROVED ASSEMBLIES SUCH AS THE FOLLOWING:
 - CONDUIT PENETRATIONS OF 1/2" & 3/4" HOUR GYP BOARD WALLS - UL-9W1001
 - CONDUIT PENETRATIONS OF 2 1/2" & 4" HOUR CONCRETE OR BLOCK WALLS - UL-CAJ001
 - CONDUIT PENETRATIONS OF 2 1/2" & 4" HOUR CONCRETE FLOOR - UL-CAJ001
 - CONDUIT PENETRATIONS OF 1 HOUR GYPBOARD CEILING ASSEMBLY - L526
 - MULT. CONDUIT PENETRATIONS OF 2 1/2" & 4" HOUR CONCRETE OR BLOCK WALL OR FLOOR - CAJ001
- 633. IN REQUIRED FIRE RATED WALLS AND PARTITIONS, OPENINGS FOR INSTALLATION OF BOXES THAT ARE GREATER THAN 16 SQUARE INCHES SHALL BE PROTECTED AS REGD BY UL. COORDINATE CLOSELY WITH THE GENERAL CONTRACTOR TO ENSURE THAT THE INTEGRITY OF THE UL RATING IS MAINTAINED.
- 634. OUTLET BOXES FOR DEVICES MOUNTED ON OPPOSITE SIDES OF FIRE RATED PARTITIONS SHALL NOT BE MOUNTED IN THE SAME WALL CAVITY. SEPARATE WALL PENETRATIONS BY MOUNTING ON OPPOSITE SIDES OF WALL STRUCT OR OTHER VERTICAL STRUCTURAL MEMBER IN THE WALL.
- 635. PRIOR TO ORDERING ANY EQUIPMENT THE ELECTRICAL CONTRACTOR SHALL PROVIDE SHOP DRAWING SUBMITTALS TO THE OWNER, ARCHITECT AND ELECTRICAL ENGINEER FOR THE LIGHTING FIXTURES, ELECTRICAL GEAR, FIRE ALARM SYSTEM AND OTHER SIMILAR SYSTEMS. SHOP DRAWING SUBMITTALS SHALL BE PROVIDED REGARDLESS IF THE EQUIPMENT BEING SUPPLIED IS THE SAME AS WHAT IS SPECIFIED ON THE PLANS.
- 636. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING RESTRAINTS TO RESIST THE EARTHQUAKE EFFECTS ON THE ELECTRICAL SYSTEM. THE ENGINEER FOR THOSE RESTRAINTS ARE FOUND IN THE IBC, THE ANCHORING OF THE EQUIPMENT SHALL COMPLY WITH IBC 1621.7.
- 637. IF DURING THE COURSE OF WORK THE ELECTRICAL CONTRACTOR DISCOVERS A PROBLEM WITH THE PERFORMANCE OF THE INSTALLATION RELATED TO THE PLANS AND SPECIFICATIONS OR NEC OR OTHER CODES, THE ELECTRICAL CONTRACTOR SHALL IMMEDIATELY BRING THE PROBLEM TO THE ATTENTION OF THE ARCHITECT AND ENGINEER FOR RESOLUTION PRIOR TO THE EXECUTION OF THE WORK.

ELECTRICAL SYMBOL LEGEND

	ARCS INDICATE CIRCUITING OF COMPONENTS. PARALLEL LINES INDICATE BREAK IN CONTROL OF CIRCUIT, IN OTHER WORDS, CONTINUATION OF HOT CONDUCTOR, BUT NOT NEUTRAL. ARROWHEADS INDICATE HOMERUNS BACK TO ELECTRICAL PANEL. NUMBER OF ARROWHEADS INDICATES NUMBER OF CIRCUITS.
	JUNCTION BOX WALL MOUNTED AT 18" AFF OR HEIGHT INDICATED ON DRAWINGS.
	SINGLE POLE SWITCH, 20A, 120V, +46" A.F.F. TO CENTER.
	WALL MOUNTED OCCUPANCY SENSOR +46" A.F.F. TO CENTER. DUAL TECHNOLOGY ULTRASONIC AND INFRARED. MUST CUT LIGHTS OFF WITHIN 30 MINUTES OF VACANCY.
	WALL MOUNTED OVERRIDE SWITCH +46" A.F.F. TO CENTER. DUAL TECHNOLOGY ULTRASONIC AND INFRARED. MUST CUT LIGHTS OFF WITHIN 30 MINUTES OF VACANCY.
	3-WAY SWITCH, 20A, 120V, +46" A.F.F. TO CENTER.
	DIMMER SWITCH, 20A, 120V, +46" A.F.F.
	MULTI-LEVEL SWITCHING. SWITCH INBOARD AND OUTBOARD LAMPS SEPERATELY. SUBSCRIPTED "3" INDICATES THREE-WAY SWITCHING.
	DUPLEX RECEPTACLE, 20A, 120 VOLT, +18" A.F.F. TO CENTER, U.O.N. "WF" INDICATES WEATHERPROOF. "WP" INDICATES COMPUTER RECEPTACLE WITH ISOLATED GROUND.
	COUNTERTOP 6P1 RECEPTACLE, 20A, 120V, 6" ABOVE COUNTER.
	DOUBLE DUPLEX RECEPTACLE, 20A, 120 VOLT, MOUNTED 12" A.F.F. TO CENTER U.O.N.
	DOUBLE DUPLEX RECEPTACLE, 20A, 120 VOLT, MOUNTING HEIGHT NOTED.
	DUPLEX RECEPTACLE, 20 AMP, 120 VOLT, CEILING MOUNTED.
	DUPLEX RECEPTACLE, 20 AMP, 120 VOLT, FLOOR MOUNTED WITH BRASS COVERPLATE.
	SPECIALTY RECEPTACLE. REFER TO PANEL SCHEDULE & MP6 DIRECTIONS.
	DUPLEX RECEPTACLE, 20A, 120 VOLT, MOUNTED 6" ABOVE COUNTER OR AT HEIGHT INDICATED.
	TELEPHONE/DATA OUTLET, +18" A.F.F. TO CENTER, W/ 3/4" CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING. "WF" INDICATES WALL MOUNTED AT 4'-8"
	PANEL BOARD, RECESSED OR SURFACE MOUNTED, REFER TO PANEL BOARD SCHEDULES FOR ADDITIONAL DETAILS. DASHED LINES INDICATE LIMITS OF REQUIRED CLEARANCES.
	2' X 4' FLUORESCENT LIGHTING FIXTURE, SEE FIXTURE SCHEDULE FOR DETAILS. SHADING INDICATES FIXTURE IS AN UNSWITCHED NIGHTLIGHT.
	2' X 4' LOUVERED FLUORESCENT LIGHTING FIXTURE, SEE FIXTURE SCHEDULE FOR DETAILS. SHADING INDICATES FIXTURE IS AN UNSWITCHED NIGHTLIGHT.
	WALL MOUNTED LIGHTING FIXTURE, SEE FIXTURE SCHEDULE FOR DETAILS. SHADING INDICATES FIXTURE IS AN UNSWITCHED NIGHTLIGHT.
	CEILING MOUNTED LIGHTING FIXTURE, SEE FIXTURE SCHEDULE FOR DETAILS. SHADING INDICATES FIXTURE IS AN UNSWITCHED NIGHTLIGHT.
	EXIT LIGHT, WALL AND CEILING MOUNTED RESPECTIVELY, SHADING INDICATES FACE PROVIDE EMERGENCY BATTERY PACK RATED FOR 90 MINUTES OF OPERATION.
	COMBINATION EXIT AND EMERGENCY LIGHT, WALL MOUNTED, SHADING INDICATES FACE PROVIDE EMERGENCY BATTERY PACK RATED FOR 90 MINUTES OF OPERATION.
	FIRE ALARM CONTROL PANEL, FLUSH MOUNTED.
	FIRE ALARM ANNUNCIATOR PANEL.
	COMBINATION AUDIAL/VISUAL FIRE ALARM SYSTEM INDICATING DEVICE. ADJACENT NUMBER INDICATES CANDELLA RATING OTHER THAN DEFAULT RATING OF 15 CANDELLAS. MOUNT DEVICE AT 84" A.F.F.
	VISUAL ONLY FIRE ALARM SYSTEM INDICATING DEVICE. ADJACENT NUMBER INDICATES CANDELLA RATING OTHER THAN DEFAULT RATING OF 15 CANDELLAS. MOUNT DEVICE AT 84" A.F.F.
	DUAL CHAMBER IONIZATION OR PHOTOELECTRIC TYPE SMOKE DETECTOR CONNECTED TO FIRE ALARM PANEL. UNIT SHALL HAVE 85db HORN IF REQUIRED BY CODE, INDICATOR LAMP, TEST SWITCH AND UL LISTING. "E" DESIGNATES ELEVATOR RECALL.
	ELECTRONIC KEY ACCESS
	SINK IN MOTION SENSOR
	OCCUPANCY SENSOR SHALL AUTOMATICALLY TURN OFF LIGHTS WITHIN 30 MINUTES OF A OCCUPANT LEAVING A SPACE
A - AMPERE	0 - GROUND
AFCI - ARC FAULT CIRCUIT INTERRUPT	0FT - GROUND FAULT INTERRUPT
AFF - ABOVE FINISHED FLOOR	IG - ISOLATED GROUND
AFB - ABOVE FINISHED GRADE	RTU - ROOF TOP UNIT
AHJ - AUTHORITY HAVING JURISDICTION	TX - TRANSFORMER
AHU - AIR HANDLING UNIT	UN - UNLESS OTHERWISE NOTED
C - CONDUIT	WH - WATER HEATER
CU - CONDENSING UNIT	WP - WEATHERPROOF
ECW - ELECTRIC WATER COOLER	
FPN - FUSED PER NAMEPLATE	
HP - HEAT PUMP	
NF - NON-FUSED	
NTS - NOT TO SCALE	

LIGHTING FIXTURE SCHEDULE

SYMBOL OR TAGS LETTER	MANUF.	CATALOG NUMBER	LAMP DATA		WATTS	MOUNTING	DESCRIPTION
			NO.	TYPE			
A2	DAY-BRITE	2678-232-21-UNV-V2EB	2	F32-T8-35K	64	RECESSED	2x4 RECESSED TROFFER WITH .125" PRISMATIC LENS. REFER TO FIXTURE SCHEDULE NOTES.
A3	DAY-BRITE	2678-332-21-UNV-V2EB	3	F32-T8-35K	96	RECESSED	2x4 RECESSED TROFFER WITH .125" PRISMATIC LENS. REFER TO FIXTURE SCHEDULE NOTES.
A4	DAY-BRITE	25P8-432-F32-UNV-V2EB	4	F32-T8-35K	128	RECESSED	2x4 RECESSED TROFFER WITH .125" PRISMATIC LENS. REFER TO FIXTURE SCHEDULE NOTES.
C	OWNER SEL.	OWER SELECT, GC PROVIDED	1	30W	30W	PENDANT	OWNER SELECTED DECORATIVE PENDANT MOUNTED @ 8'-3" A.F.F. REFER TO FIXTURE SCHEDULE NOTES.
C1	OWNER SEL.	OWER SELECT, GC PROVIDED	1	30W	30W	PENDANT	OWNER SELECTED DECORATIVE PENDANT MOUNTED @ 8'-3" A.F.F. REFER TO FIXTURE SCHEDULE NOTES.
D	ATLAS	WLMR-150W-P-120V-PK	1	150W	150W	WALL	EXTERIOR WALL MOUNT BATTERY PACK, PULSE START. FINISH DARK BRONZE. REFER TO FIXTURE SCHEDULE NOTES.
E	STERNBERG	STERN #7556TP AS APPROVED BY OWNER	1	100W	100W	WALL	EXTERIOR CARRIAGE LIGHT FIXTURE, NANTUCKET STYLE. REFER TO FIXTURE SCHEDULE NOTES.
F	LOWE	LOWES STOCK #284981 (WCK52ABZ5NS)	-	65	65	PENDANT	CEILING FAN HARBOR BREEZE, BRONZE, 82" DIAMETER FAN, NO LIGHT KIT. MOUNT @ 8'-3" A.F.F. REFER TO FIXTURE SCHEDULE NOTES.
FL	CHLORIDE	92SL-H12-W-1C-T	2	12W HALOGEN	25	WALL	EMERGENCY WALL PACK WITH SMART CHARGE DIAGNOSTICS AND SELF TEST DIAGNOSTICS. REFER TO FIXTURE SCHEDULE NOTES.
LAL	LIGHTALARMS	VCRW-COIR REMOTE HEAD 2 SMR05	2	LED 5.4W TUNGSTEN	12	UNIVERSAL	THERMOPLASTIC EXIT-SINGLE FACE REFER TO FIXTURE SCHEDULE NOTES. REMOTE HEAD OPTION IS AVAILABLE FOR THIS FIXTURE REFER TO PLANS FOR LOCATIONS.

FIXTURE SCHEDULE NOTES:

- LF1: LIGHTING FIXTURE CATALOG NUMBERS ARE INDICATIVE OF THE STYLE OF FIXTURE REQUIRED. CONTRACTOR SHALL COORDINATE WITH FIELD CONDITIONS & ARCHITECT'S FINISH SCHEDULE TO PROVIDE FIXTURES WITH THE PROPER TRIM, VOLTAGE AND OPTIONS NECESSARY FOR A COMPLETE INSTALLATION.
- LF2: DOUBLE-FACED EXIT FIXTURES SHALL BE OF THE SAME MANUFACTURER AND SERIES AS THE CORRESPONDING SINGLE FACED FIXTURES SCHEDULED.
- LF3: FLUORESCENT BATTERY PACKS SHALL BE CAPABLE OF PROVIDING AT LEAST 100 LUMENS OUTPUT FROM ONE LAMP FOR A DURATION OF 15 HOURS. REGARDLESS OF CATALOG NUMBER INDICATED IN SCHEDULE BATTERY PACKS FOR ALL FIXTURES INDICATED ON THE DRAWINGS TO BE EMERGENCY TYPE. (1) LAMP FIXTURE SHALL BE SERVED BY THE EMERGENCY BALLAST, OUTBOARD LAMPS OF (2) AND (4) LAMP FIXTURES SHALL BE SERVED BY THE EMERGENCY BALLAST. ALL BATTERY PACKS SHALL BE FACTORY INSTALLED.
- LF4: THE BATTERY PACKS FOR ALL EXIT AND EMERGENCY LIGHT FIXTURES SHALL BE CAPABLE OF PROVIDING EMERGENCY POWER TO THE FIXTURES FOR A MINIMUM OF 90 MINUTES.
- LF5: ALL FLUORESCENT FOUR FOOT LIGHT FIXTURES SHALL BE EQUIPPED WITH INSTANT START ELECTRONIC BALLASTS AND 3500K LAMPS, SEE SCHEDULE FOR ADDITIONAL INFORMATION.
- LF6: ALL COMPACT FLUORESCENT LIGHT FIXTURES SHALL BE EQUIPPED WITH ELECTRONIC BALLASTS AND 3500K, 82 CRI LAMPS.
- LF7: SUBMITTALS FOR ALL LIGHT FIXTURES SHALL BE REQUIRED, PROVIDE SUBMITTALS DATA TO INCLUDE COMPLETE PHOTOMETRIC DATA AS WELL AS DATA ON MATERIAL, FINISHES, SUPPORTS, REFLECTORS, LENSES, ETC.
- LF8: PROVIDE BALLASTS AS REQUIRED FOR INBOARD/OUTBOARD SWITCHING WHERE INDICATED ON PLANS. IN ADDITION, ALL FIXTURES WIRED INBOARD/OUTBOARD SHALL BE TAPPED WIRED.
- LF9: IN INDOOR LOCATIONS OTHER THAN DWELLINGS AND ASSOCIATED STRUCTURES, ALL FLUORESCENT LIGHT FIXTURES THAT UTILIZE DOUBLE ENDED BALLASTS AND CONTAIN BALLASTS THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OR EXTENSIVE TO EACH LUMINAIRE. THE LINE SIDE TERMINALS OF THE DISCONNECTING MEANS SHALL BE IDENTIFIED.
- LF10: FIXTURES SHALL BE INDEPENDENTLY SUPPORTED DIRECTLY FROM THE STRUCTURE WITH CODE GAUGE WIRE AT A MINIMUM OF TWO OPPOSITE CORNERS.
- LF11: ALL RECESSED FIXTURES INSTALLED IN CEILING, INDICATED BY ARCHITECT AS HAVING INSULATION INSTALLED ABOVE CEILING AND FIXTURES, SHALL BE UL RATED FOR DIRECT CONTACT WITH INSULATION OR INSTALLED WITH AN APPROPRIATE AIR-TIGHT ASSEMBLY WITH A 0.5 INCH CLEARANCE FROM COMBUSTIBLE MATERIALS AND WITH 1/8" CLEARANCE FROM INSULATION MATERIAL. VERIFY WITH ARCHITECTURAL PLANS.
- LF12: ALL RECESSED FIXTURES RECESSED IN FIRE RATED CEILING, SHALL BE INSTALLED WITH AN APPROVED TENT ENCLOSURE BY G.C. OR BE UL RATED FOR USE IN FIRE RATED CEILING. VERIFY WITH ARCHITECTURAL PLANS.
- LF13: VERIFY ALL FIXTURE VOLTAGES PRIOR TO ORDERING.
- LF14: REGARDLESS OF MODEL NUMBER, THE ELECTRICAL CONTRACTOR SHALL PROVIDE DIMMING BALLASTS FOR ALL FLUORESCENT LIGHT FIXTURES CONTROLLED WITH DIMMING SWITCHES.

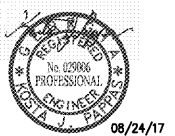
GENERAL DEMOLITION NOTES

- D1. REMOVE ALL EXISTING FIXTURES, WIRING DEVICES, ELECTRICAL EQUIPMENT AND BRANCH CIRCUIT WIRING, AS REQUIRED BY THE ARCHITECTURAL DEMOLITION WORK IN THE AREA TO BE RENOVATED. REMOVE WIRING BACK TO THE NEAREST POINT OF USAGE (SOURCE OF VOLTAGE).
- D2. WHERE EXISTING FIXTURES, WIRING DEVICES, AND ELECTRICAL EQUIPMENT ARE REMOVED, RECONNECT CIRCUITING AS REQUIRED TO MAINTAIN CONTINUITY TO OUTLETS REMAINING ON THE CIRCUIT WITHIN OCCUPIED SPACES.
- D3. WHERE REQUIRED BY NEW CONSTRUCTION, PROVIDE EXTENSION RINGS, COVERPLATES, OR ACCESS PLATES AS REQUIRED TO MAINTAIN ACCESS TO EXISTING WIRING.
- D4. FIELD VERIFY LOCATIONS OF EXISTING OUTLETS, WHERE NEW CONSTRUCTION CONFLICTS WITH EXISTING OUTLETS, REMOVE WIRING DEVICES OR RELOCATE FIXTURES AS REQUIRED.
- D5. WHERE EXISTING WIRING DEVICES ARE REMOVED AND JUNCTION BOXES ARE NOT REUSED, PROVIDE BLANK COVERPLATES.
- D6. WHERE EXISTING CIRCUITS ARE EXTENDED TO SERVE NEW OR RELOCATED DEVICES OR FIXTURES, PROVIDE TYPE AND SIZE OF CONDUCTORS TO MATCH EXISTING.
- D7. PROVIDE CUTTING AND PATCHING AS REQUIRED VERIFY EXTENT OF NEW AND EXISTING PARTITIONS WITH ARCHITECTURAL DRAWINGS.
- D8. EXISTING CIRCUITING SHALL BE FIELD VERIFIED AND ADJUSTMENTS SHALL BE MADE IF NECESSARY TO THE CIRCUITING SHOWN ON THE PLANS, AS REQUIRED BY FIELD CONDITIONS.
- D9. REMOVE AND CAP ALL EXISTING FLOOR OUTLETS IN SUCH MANNER AS TO RETAIN THE FIRE INTEGRITY OF THE FLOOR.

ELECTRICAL DRAWING INDEX

E1	ELECTRICAL LEGEND, NOTES & SCHEDULES
E2	ELECTRICAL POWER PLAN
E3	ELECTRICAL LIGHTING PLAN
E4	ELECTRICAL PANEL, SCHEDULE, RISERS & DETAILS

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Rev.	Date	Description

ELECTRICAL LEGEND, NOTES & SCHEDULES

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