

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.
70. THE ELECTRICAL CONTRACTOR SHALL REQUEST A SELECTIVE BREAKER COORDINATION STUDY FROM THE ELECTRICAL GEAR MANUFACTURER PER NEC 700 REQUIREMENTS.
71. 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.
72. PROVIDE "FLASH HAZARD" LABELS FOR ALL PANELBOARDS IN ACCORDANCE WITH NEC REQUIREMENTS.
73. ALL TERMINALS/UGS SHALL BE 60 DEGREE/75 DEGREE RATED.
74. FUSES 0-600 AMPS SHALL BE UL CLASS "RK-5" LOW PEAK DUAL ELEMENT TIME DELAY WITH 200,000 AMPERE INTERRUPTING RATING AS MANUFACTURED BY BUSSMAN UNLESS NOTED OTHERWISE.
75. ALL WATER HEATERS SHALL BE PLUG-IN TYPE UNITS.
76. 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.
77. RACEWAYS SHALL BE INSTALLED CONCEALED IN NEW WALL CONSTRUCTION, ABOVE CEILINGS, 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.
78. 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.
79. 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. 90° IN ANY DIRECTION SHALL BE DONE AT NO ADDITIONAL COST TO THE CONTRACT.
80. ALL WIRING SHALL BE INSTALLED IN RMC, 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. INDOOR BRANCH CIRCUIT WIRING MAY BE TYPE NM, NMC, OR NMS FOR DWELLING UNITS OR OTHER BUILDINGS PERMITTED TO BE OF TYPES III, IV OR V CONSTRUCTION.
81. ALL FLEX SHALL BE LIQUID TIGHT FLEXIBLE METAL.
82. PROVIDE A PULL WIRE OR FISH TAPE IN ALL EMPTY CONDUITS. PROVIDE A BLANK COVER PLATE OVER ALL UNUSED BOXES INCLUDING DATA/COMM BOXES.
83. 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:
 1. 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.
 2. 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.
84. 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 #0 AWG AND LARGER SHALL BE STRANDED, #10 THRU #12 AWG CONDUCTORS SHALL BE SOLID. ALL INSULATION TYPES SHALL BE THW/THHN. FEEDER CIRCUIT CONDUCTORS SHALL BE COPPER ONLY.
85. 20A/120V BRANCH CIRCUITS EXCEEDING 100' IN LENGTH FROM PANEL TO FARTHEST DEVICE SHALL USE NO. 10 CONDUCTORS AND 3/4" C.
86. 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.
87. COORDINATE ALL DEVICE AND DEVICE PLATE COLORS WITH OWNER/ARCHITECT. DEVICES AND DEVICE PLATES LOCATED IN CABINETS SHALL BE A DARK COLOR TO MATCH CABINETS FINISH.
88. EXACT LOCATION OF ALL FLOOR-MOUNTED OUTLETS SHALL BE COORDINATED WITH THE OWNER/ARCHITECT BEFORE ROUGH-IN.
89. 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.
90. WALL RECEPTACLES SHOWN BACK TO BACK MAY BE OFFSET BUT SHALL BE INSTALLED DIRECTLY ADJACENT TO ONE ANOTHER.
91. LIGHT SWITCHES SHALL BE NO MORE THAN 6" FROM EDGE OF DOOR FRAME.
92. WHERE PENETRATIONS ARE MADE THROUGH A REQUIRED FIRE-RESISTIVE WALL, FLOOR, OR PARTITION FOR THE PURPOSES OF RUNNING RACEWAY CARRYING ELECTRICAL, TELEVISION OR LOCAL COMMUNICATION AND/OR SIGNALING CIRCUITS, THE PENETRATIONS 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 1.5 & 4 HOUR GYP BOARD WALLS - UL-W11001
 - CONDUIT PENETRATIONS OF 2.5 & 4 HOUR CONCRETE OR BLOCK WALLS - UL-W11001
 - CONDUIT PENETRATIONS OF 2.5 & 4 HOUR CONCRETE PARTITIONS - UL-W11001
 - CONDUIT PENETRATIONS OF 1 HOUR GYPBOARD CEILING ASSEMBLY - UL-W11001
 - MULT. CONDUIT PENETRATIONS OF 2.5 & 4 HOUR CONCRETE OR BLOCK WALL OR FLOOR - CAJ1042
93. IN REQUIRED FIRE RATED WALLS AND PARTITIONS, OPENINGS FOR INSTALLATION OF DEVICES THAT ARE GREATER THAN 16 SQUARE INCHES SHALL BE PROTECTED AS REQ'D BY UL. COORDINATE CLOSELY WITH THE GENERAL CONTRACTOR TO ENSURE THAT THE INTEGRITY OF THE UL RATING IS MAINTAINED.
94. 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 STUDS OR OTHER VERTICAL STRUCTURAL MEMBER IN THE WALL.
95. 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 PLAN AND MUST BE APPROVED BY OWNER.
96. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING RESTRAINTS TO RESIST THE EARTHQUAKE EFFECTS ON THE ELECTRICAL SYSTEM. THE REQUIREMENTS FOR THOSE RESTRAINTS ARE FOUND IN THE IBC, THE ANCHORING OF THE EQUIPMENT SHALL COMPLY WITH IBC 1923.17.
97. IF DURING THE COURSE OF WORK THE ELECTRICAL CONTRACTOR DISCOVERS A PROBLEM WITH THE PERFORMANCE OF THE INSTALLATION RELATIVE 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.
	ELECTRICAL CONNECTION TO EQUIPMENT
	JUNCTION BOX CEILING OR FLOOR MOUNTED. *1* INDICATES DATA CABLES IN J-BOX *2* INDICATES TELEPHONE CABLES IN J-BOX *3* INDICATES ISOLATED GROUND CIRCUITS IN J-BOX
	JUNCTION BOX WALL MOUNTED AT 18" AFF OR HEIGHT INDICATED ON DRAWINGS.
	SINGLE POLE SWITCH, 20A, 120/277V, *48" AFF. TO CENTER.
	MULTI-LEVEL SWITCHING. SWITCH INBOARD AND OUTBOARD LAMPS SEPERATELY. SUBSCRIPTED *9* INDICATES THREE-WAY SWITCHING
	3-WAY SWITCH, 20A, 120/277V, *48" AFF. TO CENTER.
	MOTOR RATED SWITCH, 20A, 120/277V.
	DUPLEX RECEPTACLE, 20A, 120 VOLT, *18" AFF. TO CENTER, U.O.N. *5F* INDICATES GROUND FAULT PROTECTION *6F* INDICATES WEATHERPROOF *7F* INDICATES SAFETY TYPE
	COUNTERTOP GFI RECEPTACLE, 20A, 120/277V, *6" ABOVE COUNTER
	DOUBLE DUPLEX RECEPTACLE, 20A, 120 VOLT, MOUNTED 18" AFF. TO CENTER U.O.N.
	DOUBLE DUPLEX RECEPTACLE, 20A, 120 VOLT, MOUNTED *6" ABOVE COUNTER OR AT HEIGHT INDICATED
	208V OR 240V SPECIALTY RECEPTACLE. REFER TO PANEL SCHEDULE FOR AMP RATING.
	DUPLEX RECEPTACLE, 20A, 120 VOLT, MOUNTED *6" ABOVE COUNTER OR AT HEIGHT INDICATED
	DUPLEX RECEPTACLE, 20 AMP, 120 VOLT, CEILING MOUNTED.
	DUPLEX RECEPTACLE, 20 AMP, 120 VOLT, FLOOR MOUNTED WITH BRASS COVERPLATE.
	CABLE TELEVISION OUTLET.
	TELEPHONE OUTLET, *18" AFF TO CENTER *8" INDICATES WALL MOUNTED AT 4'-8"
	DATA OUTLET, *18" AFF TO CENTER *8" INDICATES WALL MOUNTED AT 4'-8" PROVIDE CAT 5 STYLE CABLE FROM EACH DATA BOX BACK TO A CENTRAL POINT, COORDINATE EXACT TERMINATION POINT WITH OWNER.
	TELEPHONE/DATA OUTLET, *18" AFF. TO CENTER, W/ 3/4" CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING. *8" INDICATES WALL MOUNTED AT 4'-8"
	TELEPHONE BOARD, 48x36x1/2" UNLESS NOTED OTHERWISE. PAINTED WITH FLAME RETARDANT PAINT. EXTEND #6 GROUND WIRE FROM BOARD TO SERVICE GROUND.
	HEAVY DUTY FUSIBLE/NON-FUSIBLE DISCONNECT SWITCH. NUMBERS INDICATE FRAME/POLES/FUSES. PROVIDE NEMA 1 ENCLOSURE INSIDE. PROVIDE NEMA 3R ENCLOSURE FOR ALL SWITCHES LOCATED OUTSIDE. *FPN* INDICATES FUSED PER NAMEPLATE, *NF* INDICATES NON FUSED.
	EXHAUST FAN PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
	PANEL BOARD, RECESSED OR SURFACE MOUNTED, REFER TO PANEL BOARD SCHEDULES FOR ADDITIONAL DETAILS. DASHED LINES INDICATE LIMITS OF REQUIRED CLEARANCES.
	2' x 4' LED 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.
	EMERGENCY LIGHTS, SURFACE AND CEILING MOUNTED. REFER TO FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

638. SEE PANEL SCHEDULES FOR BRANCH CIRCUIT CONDUCTOR SIZES. THE "WIRE SIZE" COLUMN INDICATES THE SIZE OF THE PHASE (IE HOT) AND NEUTRAL CONDUCTORS. THE EC SHALL SIZE THE EQUIPMENT GROUNDING CONDUCTORS PER NEC TABLE 250.122, THE EC SHALL SIZE THE CONDUIT (IF REQUIRED) PER NEC ANNEX C. THE QUANTITY OF CONDUCTORS IS BASED ON THE "POLES" COLUMN AND FOLLOWS THE PROCESS BELOW, PARALLEL SET QUANTITIES ARE MULTIPLIED BY THE NUMBER OF SETS:

120V/277V - 1 POLE	1 - PHASE (IE HOT) - CONDUCTOR SIZE PER "WIRE SIZE" COLUMN IN PANEL SCHEDULE	1 - NEUTRAL - CONDUCTOR SIZE PER "WIRE SIZE" COLUMN IN PANEL SCHEDULE	1 - GROUND - PER NEC TABLE 250.122
208V/240V/480V - 2 POLE	2 - PHASE (IE HOT) - CONDUCTOR SIZE PER "WIRE SIZE" COLUMN IN PANEL SCHEDULE	1 - NEUTRAL (EC VERIFY IF REQUIRED FOR INSTALLED EQUIPMENT) - CONDUCTOR SIZE PER "WIRE SIZE" COLUMN IN PANEL SCHEDULE	1 - GROUND - PER NEC TABLE 250.122
208V/240V/480V - 3 POLE	3 - PHASE (IE HOT) - CONDUCTOR SIZE PER "WIRE SIZE" COLUMN IN PANEL SCHEDULE	1 - NEUTRAL (EC VERIFY IF REQUIRED FOR INSTALLED EQUIPMENT) - CONDUCTOR SIZE PER "WIRE SIZE" COLUMN IN PANEL SCHEDULE	1 - GROUND - PER NEC TABLE 250.122

639. ELECTRICAL CONTRACTOR SHALL VERIFY THAT ALL AREAS IN WHICH FOOD AND/OR DRINKS ARE PREPARED, OR IN WHICH UTENSILS ARE WASHED, SHALL BE PROVIDED WITH AT LEAST 50% OF LIGHT AT 30 INCHES ABOVE THE FLOOR AND AT UTENSILS WASHING WORK LEVELS. AT LEAST 10% OF LIGHT AT 30 INCHES ABOVE THE FLOOR SHALL BE PROVIDED IN ALL OTHER AREAS, INCLUDING STORAGE ROOMS AND WALK-IN UNITS. LIGHT BULBS IN FOOD PREPARATION, STORAGE, AND DISPLAY AREAS SHALL BE SHATTERPROOF OR SHIELDED SO AS TO PRECLUDE THE POSSIBILITY OF BROKEN BULBS OR LAMPS FALLING INTO FOOD. HEAT LAMPS SHALL BE PROTECTED AGAINST BREAKAGE BY A SHIELD SURROUNDING AND EXTENDING BEYOND THE BULB, LEAVING ONLY THE FACE OF THE BULB EXPOSED.

LIGHTING FIXTURE SCHEDULE

SYMBOL OR TAG LETTER	MANUF.	CATALOG NUMBER	LAMP DATA		WATTS	MOUNTING	DESCRIPTION
			NO.	TYPE			
A	LSI	8FP24-LED-1000-DIM-40	-	LED	46	RECESSED	2x4 RECESSED LED PANEL FIXTURE. REFER TO FIXTURE SCHEDULE NOTES.
A1	LSI	8FP22-LED-3000-DIM-40	-	LED	50	RECESSED	2x2 RECESSED LED PANEL FIXTURE. REFER TO FIXTURE SCHEDULE NOTES.
B	LSI	8FP24-LED-3000-DIM-40	-	LED	40	RECESSED	2x4 RECESSED LED PANEL FIXTURE. REFER TO FIXTURE SCHEDULE NOTES.
C	LSI	8FP24-LED-3000-DIM-40-FK24	-	LED	40	RECESSED	2x4 RECESSED LED PANEL FOR DRY WALL CEILING MOUNT. REFER TO FIXTURE SCHEDULE NOTES.
D	MOBERN LT6	VW-4-48-DMV-RF-40	-	LED	48	SURFACE	4' LED LINEAR SURFACE MOUNT FIXTURE. REFER TO FIXTURE SCHEDULE NOTES.
E	CREE	CR-6-800L-35K-12-0U24	1	LED	12	RECESSED	6" LED DOWNLIGHT. REFER TO FIXTURE SCHEDULE NOTES.
F	EXITRONIX	VLED-1-WH-EL80	1	LED	2.2	UNIVERSAL	EXIT/EMERGENCY COMBO FIXTURE. REFER TO FIXTURE SCHEDULE NOTES.
G	EXITRONIX	2CLED-WP	1	LED	2.2	WALL	REMOTE HEAD FIXTURE. REFER TO FIXTURE SCHEDULE NOTES.
H	EXITRONIX	LED-80	1	LED	2.2	WALL	EMERGENCY FIXTURE. REFER TO FIXTURE SCHEDULE NOTES.
J	DURAGUARD	WMP-F-1X-41-U-K-Z	1	LED	47	WALL	EXTERIOR WALL SCONCE. REFER TO FIXTURE SCHEDULE NOTES.
K	SAVOY HOUSE	7-151-108	1	LAMP SATCO 58811	12	PENDANT	PENDANT LIGHT FIXTURE. VERIFY FINISH WITH OWNER. REFER TO FIXTURE SCHEDULE NOTES.
L	EXITRONIX	VEK-U-8P-WB-WH	1	LED	2	UNIVERSAL	EXIT/EMERGENCY COMBO FIXTURE. REFER TO FIXTURE SCHEDULE NOTES.
M	SAVOY HOUSE	60-5025-915-13	-	-	63	CEILING	CEILING FAN LIGHT KIT. REFER TO FIXTURE SCHEDULE NOTES.
N	SAVOY HOUSE	5-5030-L32	-	LAMP SATCO 58811	15.5	WALL	EXTERIOR WALL SCONCE. REFER TO FIXTURE SCHEDULE NOTES.

CONTACT TOM FULTON AT LSI FOR LIGHTING PURCHASING. CONTACT NUMBER 704-640-6154.

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 SHOULD BE CAPABLE OF PROVIDING AT LEAST 100 LUMENS OUTPUT FROM ONE LAMP FOR A DURATION OF 18 HOURS REGARDLESS OF CATALOG NUMBER INDICATED IN SCHEDULE. PROVIDE BATTERY PACKS FOR ALL FIXTURES INDICATED ON THE DRAWINGS TO BE EMERGENCY TYPE. BOTH LAMPS OF A (2) LAMP FIXTURE SHALL BE SERVED BY THE EMERGENCY BALLAST, OUTBOARD LAMPS OF (3) 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 FLUORESCENT LIGHT FIXTURES SHALL BE EQUIPPED WITH ELECTRONIC BALLASTS AND 3500K, 82 OR 86 LAMPS.
- LF7: SUBMITTALS FOR ALL LIGHT FIXTURES SHALL BE REQUIRED, PROVIDE SUBMITTAL DATA TO INCLUDE COMPLETE PHOTO-METRIC 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 TANDEN WIRED.
- LF9: IN INDOOR LOCATIONS OTHER THAN DWELLINGS AND ASSOCIATED STRUCTURES, ALL FLUORESCENT LIGHT FIXTURES THAT UTILIZE DOUBLE ENDED LAMPS AND CONTAIN BALLASTS THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OR EXTERNAL TO EACH LUMINAIRE. THE LINE SIDE TERMINALS OF THE DISCONNECTING MEANS SHALL BE GUARDED.
- 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 CEILINGS, INDICATED BY ARCHITECT AS HAVING INSULATION INSTALLED OVER CEILING AND FIXTURES, SHALL BE UL RATED FOR DIRECT CONTACT WITH INSULATION OR INSTALLED INSIDE AN APPROPRIATE AIR-TIGHT ASSEMBLY WITH A 0.5 INCH CLEARANCE FROM COMBUSTIBLE MATERIALS AND WITH 3 INCHES CLEARANCE FROM INSULATION MATERIAL. VERIFY WITH ARCHITECTURAL PLANS.
- LF12: ALL RECESSED FIXTURES RECESSED IN FIRE RATED CEILINGS, SHALL BE INSTALLED WITH AN APPROVED TENT ENCLOSURE BY G.C. OR BE UL RATED FOR USE IN FIRE RATED CEILINGS. 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.

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Mk	Date	Description
		Revisions

ELECTRICAL LEGEND, NOTES AND SCHEDULES

Date: 06/13/19
Drawn By: DAG
Check By: DRP
Job No.: 19-037
Sheet:

E1