



Lighting Plan - Second Floor
1/4" = 1'-0"

Lighting Plan Keynotes

- ELECTRICAL PANEL, SEE E1.0 AND E1.1 FOR LOCATION AND DESIGNATION
- PROVIDE EMERGENCY WALL PACK LIGHT, CENTER ABOVE DOOR.
- SWITCH AT RESTROOM TO CONTROL RECESSED CAN LIGHTS AND EXHAUST FAN.
- DENTAL LIGHT, PROVIDE BLOCKING PER MANUFACTURER'S WRITTEN SPECIFICATIONS. VERIFY EXACT LOCATION WITH EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.
- SURFACE MOUNTED FLUORESCENT LIGHTING FIXTURE, CENTER IN ROOM. COORDINATE LOCATION WITH CEILING PENETRATIONS REQUIRED FOR EQUIPMENT IN ROOM.
- PROVIDE FIXTURE SUPPORT MAX. 70 LBS. SUPPORT SHALL BE INDEPENDENT OF THE OUTLET BOX, OR BE SUPPORTED BY SYSTEM THAT IS IDENTIFIED FOR THE USE AND INSTALLED IN ACCORDANCE WITH THE USE.
- RECESSED CAN LIGHT WIRED TO STAY CONTINUOUSLY 'ON'.
- TIME SWITCH FOR LIGHTING, ALLOW OVERRIDE SWITCH, 2 HOUR MAX.
- EXHAUST FAN, CENTER OVER WATER CLOSET

Electrical Specifications

- WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE RULES, REGULATIONS AND ORDINANCES.
- PROVIDE PROPER GROUNDING FOR ALL EQUIPMENT, RACEWAYS, ETC.
- ALL DISCONNECTS, FIXTURES AND OTHER ELECTRICAL COMPONENTS SUBJECT TO THE WEATHER MUST HAVE WEATHERPROOF ENCLOSURES.
- ALL ROUGH-IN LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR DETERMINING PROPER LOCATION.
- PROVIDE DISCONNECTS, FUSES, OVER CURRENT PROTECTION, CONTROL AND POWER WIRING, CHORDS AND PLUGS TO ALL EQUIPMENT INCLUDED AS PART OF THIS PROJECT. IF REQUIRED FOR PROPER OPERATION BUT NOT PROVIDED BY THE EQUIPMENT MANUFACTURER, EQUIPMENT SHALL INCLUDE ALL HVAC, EXHAUST FANS, HOODS, KITCHEN EQUIPMENT, MEDICAL EQUIPMENT AND ANY SPECIAL EQUIPMENT SHOWN AS A PART OF THE PROJECT.
- CONDUCTORS:
 - USE THW OR THWN #12 MINIMUM, 75° RATING.
 - FOR HOME RUNS OVER 65 FEET, USE ONE SIZE LARGER WIRE.
 - FOR HOME RUNS OVER 115 FEET, USE TWO SIZES LARGER WIRE.
 - ALUMINUM CONDUCTORS ARE NOT ALLOWED.
- CONDUIT:
 - USE RIGID OR EMT AS ALLOWED BY CODE.
 - ALL CONDUITS EXPOSED TO THE ELEMENTS OR BURIED UNDERGROUND SHALL BE WRAPPED WITH SCOTCH 51 TAPE OR EQUAL.
 - MC TYPE PREWIRED FLEXIBLE CABLE SHALL BE PERMITTED IN ALL WALLS AND CEILING AS PERMITTED BY CODE AND LOCAL BUILDING OFFICIALS.1
 - AT CONDUIT THAT PASSES THRU EXTERIOR ENVELOPE, SUCH AS BUILDING LIGHTING OR SIGNAGE, BUT NOT LIMITED TO SAME, PROVIDE APPROVED AND LISTED FILL MATERIAL IN CONDUIT TO PREVENT THE CIRCULATION OF WARM AIR TO A COOLER SECTION OF THE RACEWAY OR SLEEVE TO PREVENT CONDENSATION IN RACEWAY OR SLEEVE.
 - RACEWAYS ARE TO BE PROVIDED WITH LISTED FITTINGS WHERE NECESSARY TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION.
- OVER CURRENT PROTECTION:
 - CIRCUIT BREAKERS THAT ARE TO BE USED TO PROTECT LIGHTING CIRCUITS ARE TO BE RATED FOR SWITCHING DUTY.
 - PROVIDE LOCK-ON DEVICES FOR NIGHT LIGHT, EMERGENCY AND EXIT LIGHT CIRCUITS.
 - ALL RECEPTACLES AND FIXED EQUIPMENT WITHIN AREA OF WET LOCATION NEED GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION PER NEC 517.20.
- FIXTURES
 - FLUORESCENT LUMINAIRES THAT USE DOUBLE ENDED LAMPS AND USE BALLASTS WILL BE IN CONFORMANCE WITH 410.73(G), SEPARATE DISCONNECTING MEANS.
 - PENDANT FIXTURES ARE TO BE SUPPORTED SEPARATELY FROM JUNCTION BOX OR TO HAVE JUNCTION BOX RATED FOR WEIGHT OF PENDANT.
- CLASS 1 TRANSFORMERS
 - TRANSFORMERS TO BE PROVIDED WITH FACTORY CASING WITH VENT STRIPS
 - FOR TRANSFORMERS OVER 600V PROVIDE 12" SEPARATION MINIMUM FROM COMBUSTIBLE MATERIAL, OR PROVIDE FIRE RESISTANT HEAT INSULATED BARRIER
- FUNCTIONAL TESTING - THIRD PARTY REVIEW

TESTING SHALL ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS. A THIRD PARTY NOT RELATING TO CONSTRUCTION OR DESIGN SHALL BE RESPONSIBLE FOR THE FUNCTIONAL TESTING AND SHALL PROVIDE DOCUMENTATION TO THE CODE OFFICIAL CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET THE PROVISIONS OF IECC SECTION C405.

WHERE OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE SCHEDULE CONTROLS, PHOTOSENSORS OR DAYLIGHTING CONTROLS ARE INSTALLED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

 - CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE.
 - CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
 - CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.

General Notes

- SEE ELECTRICAL SPECIFICATIONS THIS SHEET FOR IMPORTANT INFORMATION RELATING TO BUILDING CODES, CITY ORDINANCES, MATERIALS AND METHODS.
- VERIFY LIGHTING, AIR SUPPLY AND AIR RETURN LOCATION WITH CONTRACTOR PRIOR TO INSTALLATION.
- OUTLET/SWITCHES/ELECTRICAL PLATES TO BE STANDARD SIZE. SWITCHES TO BE LEVITON DECORA ROCKER ARM, COMMERCIAL GRADE. DIMMING SWITCHES TO BE LEVITON DECORA ROCKER ARM, COMMERCIAL GRADE WITH SLIDE DIMMER. SWITCHES TO BE WIRED IN ACCORDANCE WITH NEC 517.13 A AND B.
- PROVIDE MULTI SWITCH GANG BOXES AND COVER PLATES FOR SWITCHES WHEN SHOWN GROUPED, MAXIMUM 5 PER BOX. LABEL EACH SWITCH TO USE.
- CONTRACTOR MAY PROVIDE EQUIVALENT FIXTURES TO ONES NOTED IN LEGEND. PROVIDE ARCHITECT AND CLIENT WITH CUT SHEETS OF PROPOSED CHANGE AND SPECIFIED FIXTURE FOR REVIEW AND APPROVAL, PRIOR TO ORDERING OR INSTALLATION. NO CONSIDERATION WILL BE GIVEN TO ALTERNATES INSTALLED BUT NOT APPROVED.
- ALL ROOMS/SPACES TO HAVE LIGHTING CONTROL IN ROOM OR IN ROOM OPEN TO AND ADJACENT TO CONTROLLED ROOM FOR LIGHTING FIXTURES SPECIFIED BY MEANS OF WALL SWITCH, WALL DIMMER, WALL OR CEILING OCCUPANCY SENSOR, CONTROL TIMER/TIMELOCK OR BUILDING INTERIOR MANAGEMENT SYSTEM. CONTRACTOR TO HAVE IN BID FOR CONTROL IF NOT SHOWN IN PLANS.

Lighting Schedule

SYMBOL	DESCRIPTION
A1	METALUX LIGHTING - ENCOUNTER LED - 24XN LD1-45 UNV L835 CD 1 U
C1	MAXILUME 6" LED ARCHITECTURAL DOWN LIGHT HH6-LED 16W900L DIM FL 35K HH6 6501 CL WH
C2	MAXILUME 6" LED ARCHITECTURAL DOWN LIGHT HH6-LED 16W900L DIM FL 35K HH6 6511 CL WH
C3	LED RECESSED MINI LIGHTING WAC LIGHTING TESLA 3.5", LED 12.5W HR-3LED-T618S 27 WT
C4	MAXILUME 8" LED ARCHITECTURAL DOWN LIGHT HH6-LED 32W900L DIM FL 35K HH6 6501 CL WH
C5	MAXILUME 6" LED CYLINDER DOWN LIGHT SCV6-LED-21W DIM 120 FL 35K EMG LED 6114 CL-SCH
C6	MAXILUME 4" LED ARCHITECTURAL DOWN LIGHT LED204 11W DIMTR 120 AT1 TRIM LED2 1428-11W-FL-35K-CL-SN
C7	MAXILUME 6" LED ARCHITECTURAL DOWN LIGHT HH6-LED 16W900L DIM FL 35K L696 SN - FROSTED LENS
P1	GLASS GLOBE PENDANTS PROVIDED BY DESIGNER, INSTALLATION TO BE INCLUDED IN BID
P2	MOVIE ROOM PENDANT - BATTERY OPERATED LED CLOUD PROVIDED BY DESIGNER, INSTALLATION TO BE INCLUDED IN BID
P3	ROPE PENDANT LIGHT - EDISON BULB PROVIDED BY DESIGNER, INSTALLATION TO BE INCLUDED IN BID LAMP - 20W PER BULB/FIXTURE
P4	PAPER PENDANT - ELLIPTICAL PROVIDED BY DESIGNER, INSTALLATION TO BE INCLUDED IN BID LAMP - 1 LED 10W MAX
P5	PAPER PENDANT - SPHERE PROVIDED BY DESIGNER, INSTALLATION TO BE INCLUDED IN BID LAMP - 1 LED 10W MAX
P6	PENDANT LIGHT - BARN LIGHT - ORIGINAL WAREHOUSE LED PROVIDED BY DESIGNER, INSTALLATION TO BE INCLUDED IN BID LAMP - LED PAR30 21W
P7	PENDANT LIGHT - SHADES OF LIGHT GLASS VIAL PENDANT PROVIDED BY DESIGNER, INSTALLATION TO BE INCLUDED IN BID LAMP - 1 - 10W LED
P8	PENDANT CYLINDER MAXILUME SCV6-LED-PM LED6128 CL WH AL INSTALLATION TO BE SHOWN IN BID PER LAMP SHOWN LAMP - 1 21W LED
CH1	8 LIGHT CHANDELIER PROVIDED BY DESIGNER, INSTALLATION TO BE INCLUDED IN BID LAMP - 8 AT 4W MAX EA LAMP
CH2	CAPIZ SHELLS CHANDELIER PROVIDED BY DESIGNER, INSTALLATION TO BE INCLUDED IN BID LAMP - 1 23W CFL
FC1	CLOSE TO CEILING LIGHT PROVIDED BY DESIGNER, INSTALLATION TO BE INCLUDED IN BID LAMP - 1 16W LED
FC2	CLOSE TO CEILING LIGHT - SHADES OF LIGHT MORAVIAN STAR PROVIDED BY DESIGNER, INSTALLATION TO BE INCLUDED IN BID LAMP - 1 16W LED
FC3	CLOSE TO CEILING - ALLEN - ROTH GREY/N 12 68 AGED BRONZE PROVIDED BY DESIGNER, INSTALLATION TO BE INCLUDED IN BID LAMP - 2 - 10W LED
SC1	WALL SCONCE - PARADISE LIGHTS HAWAIIAN MONSTERA SCONCE PROVIDED BY DESIGNER, INSTALLATION TO BE INCLUDED IN BID LAMP - 1 16W LED
SC2	WALL SCONCE PROVIDED BY DESIGNER, INSTALLATION TO BE INCLUDED IN BID LAMPS - 3 - 5W LED
SC3	WALL SCONCE PROVIDED BY DESIGNER, INSTALLATION TO BE INCLUDED IN BID LAMPS - 3 - 5W LED
SC4	WALL SCONCE PROVIDED BY DESIGNER, INSTALLATION TO BE INCLUDED IN BID LAMPS - 2 - 5W LED
SC5	WALL SCONCE HINKLEY LIGHTING PLANTATION COLLECTION H2228CB PROVIDED BY DESIGNER, INSTALLATION TO BE INCLUDED IN BID LAMPS - 1 - 12W LED
CT1	LED 24X24 STAR PATTERN PROVIDED BY DESIGNER, INSTALLATION TO BE INCLUDED IN BID LAMP - 12 W PANEL
CT2	LED CIRCULAR GALAXY ACCENT - STAR CEILING PROVIDED BY DESIGNER, INSTALLATION TO BE INCLUDED IN BID LAMP
FA	EMERSON FANS - TB 135 CABRILLO COVE LAMP - 1 20W LED LAMP
SL1	LED TAPE LIGHT - BLUE LIGHTING EVER 110V AC LED STRIP BLUE IP65 3000, 5050 164'
FL1	FAIRY LIGHT LED ACCENT PROVIDED BY DESIGNER, INSTALLATION TO BE INCLUDED IN BID LAMP
E1	MAXILUME EDGE LIT EXIT SIGNAGE ELX 607 G AL 1 CLEAR ACRYLIC - UNIVERSAL MOUNT
E2	MAXILUME OUTDOOR EMERGENCY LIGHT ELM 807 SN
E4	MAXILUME LED EMERGENCY LIGHT ELM LED 812 - WHITE UNIVERSAL MOUNT
TL	ELITE LIGHTING FLUORESCENT UNDER CABINET LIGHTING EUM-T5-28/EUM T5-14 WITH LINK. EUM2 AT EACH CORNER, WITH EUM8 HARDWARE BOX WITH MOUNTING CLIPS.
CL	

Electrical Symbols

	SWITCH @ 44" A.F.F.
	3 WAY SWITCH @ 44" A.F.F.
	DIMMER SWITCH @ 44" A.F.F.
	OCCUPANCY SWITCH, 30 MINUTE TIME OUT, MANUAL ON/OFF @ 44" A.F.F.
	JUNCTION BOX WITH MUDRING AND COVERPLATE
	JBOX FOR PHONE/DATA/VOICE - PROVIDE SINGLE GANG BOX WITH MUDRING AND COVER PLATE. PROVIDE 3" CONDUIT WITH PULL STRING FROM BOX TO ABOVE CEILING. WHERE WALL EXPOSED TO STRUCTURE ABOVE, PROVIDE SECOND BOX ABOVE BOTTOM CHORD OF TRUSS WITH MUDRING AND COVERPLATE. IT, SUBCONTRACTOR TO PROVIDE DATA CABLING AND FACEPLATES AS NEEDED.
	SPEAKER - LOW VOLTAGE
	WIFI REPEATER/SIGNAL BOOST
	CONDUIT
	ELECTRICAL PANEL
	PANEL: CIRCUIT NUMBER
	SHORT DASH INDICATES PHASE LINE CONDUCTOR. LONG DASH INDICATES NEUTRAL CONDUCTOR. SEE PLANS FOR NUMBER OF EACH

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Revisions

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E2.1

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