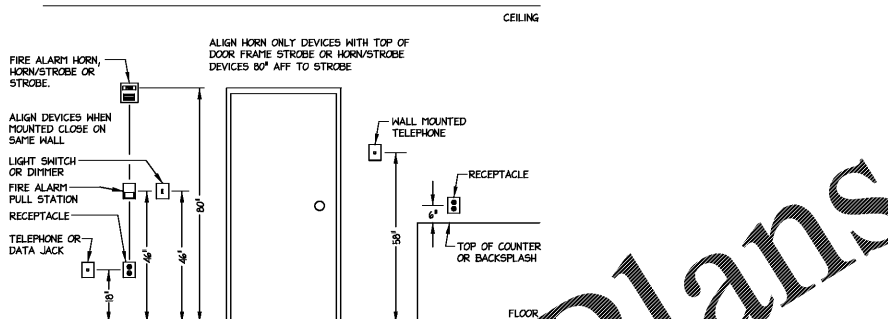


LIGHTING FIXTURE SCHEDULE										
MARK	MANUF.	CATALOG NUMBER	LAMP DATA		VOLTS	BALLAST DATA		INPUT WATTS	MOUNTING	DESCRIPTION
			NO.	TYPE		NO.	TYPE			
A	LUMAX	HERLED 50LSK 48	-	LED	208	-	ELECTRONIC	360	SUSPENDED	LED HIGH BAY FIXTURE, 5000K, 50,300 LUMEN NOMINAL OUTPUT
AE	LUMAX	HERLED 50LSK 48 E12	-	LED	208	-	ELECTRONIC	360	SUSPENDED	LED HIGH BAY FIXTURE, 5000K, 50,300 LUMEN NOMINAL OUTPUT, 90 MINUTE EMERGENCY INVERTER
BL	LUMINI	CUSTOM - VERIFY WITH ARCHITECT	-	LED	120	-	-	12W/FT	SUSPENDED	LOW VOLTAGE 48" LED LINEAR, COLOR BLUE INTEGRAL 120V-24V XFMR / LED DRIVER
C2	LITHONIA	2AVL2 20L ADR LP840	-	LED	120	-	-	24	LAY-IN	LED 2X2 LAYIN, DIRECT/INDIRECT, 4000K, 2000 LUMEN NOMINAL OUTPUT
C2E	LITHONIA	2AVL2 20L ADR LP840 ELH4	-	LED	120	-	-	24	LAY-IN	LED 2X2 LAYIN, DIRECT/INDIRECT, 4000K, 2000 LUMEN NOMINAL OUTPUT, 90 MINUTE BATTERY BACKUP
C4	LITHONIA	2AVL2 40L ADR LP840	-	LED	120	-	-	57	LAY-IN	LED 2X2 LAYIN, DIRECT/INDIRECT, 4000K, 4000 LUMEN NOMINAL OUTPUT
C4E	LITHONIA	2AVL2 40L ADR LP840 EL7L	-	LED	120	-	-	57	LAY-IN	LED 2X2 LAYIN, DIRECT/INDIRECT, 4000K, 4000 LUMEN NOMINAL OUTPUT, 90 MINUTE BATTERY BACKUP
D	STONCO	LPN 32 78 DGT	1	LED	MULTI	1	ELECTRONIC	71	HALL	FULL CUTOFF MEDIUM WALL PACK WITH TEMPERED GLASS LENS AND CAST ALUMINUM HOUSING, DARK SKY, MEDIUM DISTRIBUTION
E	GARDCO	161 40L 600 NH 4 DGT	1	LED	MULTI	1	ELECTRONIC	181	HALL	FULL CUTOFF WALL PACK WITH TEMPERED GLASS LENS AND CAST ALUMINUM HOUSING, DARK SKY, FORWARD THROU
OL	FARLIGHT	NV-L810LED DUAL	1	LED	120	1	-	6	POLE	BUILDING OBSTRUCTION BEACON LIGHT, PROVIDE FAA APPROVED PHOTOCELL ON NORTH FACE OF BUILDING.
Y1	LITHONIA	MNSL M1 M6	1	LED	MULTI	1	ELECTRONIC	24	SURFACE	48" LED STRIP
Y2	LITHONIA	4ELMT	2	LED	120	-	-	24	UNIVERSAL	SURFACE MOUNTED EMERGENCY LIGHT, MOUNT AT 96" AFF TO BOTTOM, PROVIDE WITH 90 MINUTE BATTERY BACKUP
Y3	LITHONIA	LQ1H SH - R 120/277 EL N	-	LED	120	-	-	0	UNIVERSAL	THERMOPLASTIC LED EXIT SIGN WITH RED LETTERS AND WHITE HOUSING, PROVIDE 90 MINUTE BATTERY BACKUP
Y4	LITHONIA	LQ1 SH - R 120/277 EL N	-	LED	120	-	-	0	UNIVERSAL	THERMOPLASTIC LED EXIT SIGN WITH RED LETTERS AND WHITE HOUSING, PROVIDE 90 MINUTE BATTERY BACKUP
Y5	LITHONIA	AFN DB EXT	2	6W	120	-	-	12	HALL	SURFACE MOUNTED EXTERIOR EMERGENCY LIGHT, MOUNT AT 96" AFF, CONNECT TO UNSWITCHED LEG OF EXTERIOR LIGHTING CIRCUIT

NOTES:
1. CATALOG NUMBERS AND MANUFACTURERS ARE TO INDICATE TYPE AND QUALITY OF FIXTURE DESIRED. SUBMIT CUTSHEETS OF THESE AND ALTERNATE MANUFACTURERS FOR ARCHITECT AND OWNER APPROVAL PRIOR TO PURCHASE OF ANY FIXTURES. INFORMATION ON ALTERNATE FIXTURES PROPOSED BY THE CONTRACTOR SHALL INCLUDE THE ADDITIONAL ASSOCIATED WITH ACCEPTANCE OF THAT FIXTURE (OR THE ALTERNATE PACKAGE AS A WHOLE).
2. MASTER SLAVE WIRING CONFIGURATIONS SHALL BE USED FOR MULTI-LAMP FLUORESCENT FIXTURES WHERE POSSIBLE. THE CONTRACTOR SHALL VERIFY THE QUANTITY AND TYPE OF BALLASTS REQUIRED TO PERMIT BI-LEVEL SWITCHING WHERE INDICATED. WHERE BI-LEVEL LIGHTING IS INDICATED INBOARD AND OUTBOARD LAMPS SHALL BE SWITCHED SEPARATELY.
3. EXIT AND EMERGENCY LIGHTING FIXTURES SHALL BE CIRCUITED TO AN UNSWITCHED LEG OF THE LOCAL LIGHTING CIRCUIT, UNLESS NOTED OTHERWISE.



1 TYPICAL DEVICE MOUNTING HEIGHTS
1/2" = 1'-0"

Order Plans @

GENERAL ELECTRICAL NOTES

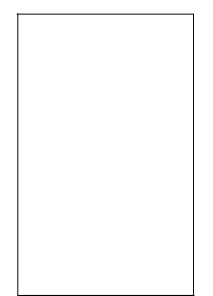
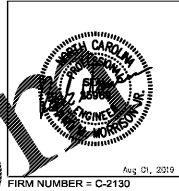
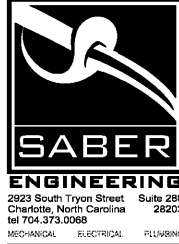
- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL AND STATE CODES.
- ALL MATERIAL, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM TO THE STANDARDS OF THE UNDERWRITERS LABORATORIES, INC., AND THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.
- ALL ELECTRICAL PERMITS AND INSPECTION FEES SHALL BE OBTAINED AND PAID FOR BY THE ELECTRICAL CONTRACTOR. DRAWINGS ARE DIAGNOSTIC ONLY AND INDICATE ONLY THE GENERAL ARRANGEMENT. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
- ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR EFFECTIVE THE DAY THE PROJECT IS ACCEPTED BY THE OWNER.
- ELECTRICAL CONTRACTOR SHALL MAKE ALL ELECTRICAL POWER CONNECTIONS TO HVAC, PLUMBING AND OTHER EQUIPMENT AS REQUIRED.
- A COMPLETE GROUNDING SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE NEC, AND AS SHOWN ON THE DRAWINGS.
- PROVIDE GROUND RING AND AIRCRAFT GROUNDING SYSTEM. COORDINATE THE DOWN & GROUNDING POINTS WITH ARCHITECTURAL PLANS. SEE ALTERNATES FOR EXTENT OF SYSTEM.
- ALL BRANCH CIRCUIT CONDUITS OR CABLE ASSEMBLIES SHALL CONTAIN AN INSULATED GREEN GROUNDING CONDUCTOR SIZED PER NEC 250-122.
- ALL CUTTING AND PATCHING OF WALLS AND FLOORS FOR ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- CONDUCTORS SHALL BE COPPER RATED AT NOT LESS THAN 600 VOLTS. MINIMUM SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL WIRE #8 AWG AND LARGER SHALL BE STRANDED. ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID, UNLESS OTHERWISE NOTED. BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE THHN OR THWN AS REQ'D.
- ALL WIRING SHALL BE INSTALLED IN GALVANIZED RIGID CONDUIT, INTERMEDIATE METAL CONDUIT, OR EMT. EMT SHALL NOT BE USED IN OR UNDER CONCRETE SLABS, OR IN MASONRY WALLS. USE SCHEDULE 40 PVC OUTDOORS WHERE NOT SUBJECT TO PHYSICAL DAMAGE OR BELOW FLOOR SLABS. MINIMUM CONDUIT SIZE TO BE 3/4". USE IMC WHERE REQUIRED BY CODE OR WHERE SUBJECT TO PHYSICAL DAMAGE. EMT FITTINGS SHALL BE COMPRESSION TYPE.
- MC CABLE ASSEMBLIES MAY BE USED FOR WIRING TO LIGHTING FIXTURES. MAXIMUM MHP LENGTH SHALL BE 6 FEET.
- PROVIDE A PULLWIRE IN ALL EMPTY CONDUITS.
- PROVIDE APPROVED SEALS IN HAZARDOUS LOCATIONS AS REQUIRED BY THE NEC.
- PROVIDE A TYPED DIRECTORY IN ALL PANELBOARDS CLEARLY DESCRIBING THE LOCATION OF AND TYPE OF CIRCUIT BEING SERVED FOR ALL CIRCUITS. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL PANELBOARDS AND DISCONNECT SWITCHES, WHITE LETTERS ON BLACK BACKGROUND.
- FUSES 0 - 600 AMPS SHALL BE UL CLASS "RK-1" LOW PEAK DUAL ELEMENT TIME DELAY WITH 100,000 AMPERE INTERRUPTING RATING AS MANUFACTURED BY BUSSMANN, UNLESS NOTED OTHERWISE.
- ALL TERMINALS/LUGS SHALL BE 60/75% RATED. ALL TERMINALS, SPlicing CONNECTORS, LUGS, ETC. SHALL BE IDENTIFIED FOR USE WITH THE MATERIAL (CUAL) OF THE CONDUCTOR AND SHALL BE PROPERLY INSTALLED.
- VERIFY ALL REQUIREMENTS AND COORDINATE EXACT LOCATION OF INCOMING ELECTRICAL SERVICE WITH LOCAL POWER COMPANY PRIOR TO PROJECT START-UP. NOTIFY ENGINEER OF ANY CHANGES AS MAY BE REQUIRED.
- E.G. TO VERIFY DEVICE PLATE COLOR AND MATERIAL WITH ARCHITECT PRIOR TO PURCHASE.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL ELECTRICAL EQUIPMENT FROM FOREIGN MATERIAL DURING CONSTRUCTION (PAINT, SPALLS, ETC.).
- PENETRATIONS OF REQUIRED SMOKE PARTITIONS SHALL BE STOPPED USING METHODS APPROVED UNDER THE STATE BUILDING CODE. COORDINATION WITH THE GENERAL CONTRACTOR SHALL BE MAINTAINED TO INSURE THAT THIS SMOKE STOPPING IS ACCOMPLISHED.
- WHERE PENETRATIONS ARE MADE THROUGH A REQUIRED FIRE-RESISTIVE WALL, FLOOR, OR PARTITION FOR THE PURPOSE OF RUNNING ANY CARRYING CONDUIT, TELEPHONE, TELEVISION, OR LOCAL COMMUNICATION AND/OR SIGNALING CIRCUIT, THE OPENING THROUGH THE RACEWAY SHALL BE FIRE STOPPED PER THE STATE BUILDING CODE. COORDINATION WITH THE GENERAL CONTRACTOR SHALL BE MAINTAINED TO INSURE THAT THIS FIRE STOPPING IS ACCOMPLISHED PER APPROVED OR EQUIVALENT ASSEMBLIES.
- IN REQUIRED FIRE RATED WALLS AND PARTITIONS, OPENINGS FOR INSTALLATION OF BOXES THAT ARE GREATER THAN 10 SQUARE INCHES SHALL BE PROTECTED AS REQUIRED BY U.L. COORDINATE CLOSELY WITH THE GENERAL CONTRACTOR TO INSURE THAT THE INTEGRITY OF THE U.L. RATING IS MAINTAINED.
- WHERE A RACEWAY IS SHOWN THE CIRCUIT SHALL BE INSTALLED IN A DEDICATED CONDUIT, DO NOT COMBINE WITH OTHER CIRCUITS. WHERE A CIRCUIT HEMERON IS NOT SHOWN, THE CONTRACTOR SHALL COMBINE CIRCUITS AS MUCH AS A MAXIMUM OF THREE 20A BRANCH CIRCUITS MAY BE COMBINED IN A COMMON HOMERUN WITH SEPARATE NEUTRALS FOR A MAXIMUM TOTAL OF SIX CURRENT CARRYING CONDUCTORS. ALL BRANCH CIRCUITS LARGER THAN 20A SHALL BE SEPARATELY HOMERUN TO THE PANEL.
- COORDINATE WITH THE CABLE TV AND TELEPHONE UTILITIES AS REQUIRED FOR SERVICE ENTRANCE REQUIREMENTS. INSTALLATION MUST COMPLY WITH THEIR RESPECTIVE REGULATIONS AND REQUIREMENTS.
- RECEPTACLES SHALL BE SPECIFICATION GRADE EQUAL TO HUBBELL 5300 SERIES, GROUND FAULT RECEPTACLES SHALL BE HUBBELL GF-536Z. LIGHTING SWITCHES SHALL BE SPECIFICATION GRADE EQUAL TO HUBBELL 1200 SERIES.
- ALL EXTERIOR FIXTURES AND DEVICES SHALL BE RATED FOR OPERATION AT 0' F AND SHALL BE DAMP OR WET LABELED AS REQUIRED.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL ELECTRICAL EQUIPMENT, DEVICES, ETC. IN ACCORDANCE WITH LOCAL SEISMIC CODE REQUIREMENTS. PROVIDE SEISMIC RESTRAINTS, ACCESSORIES AND INSTALLATION DETAIL AS REQUIRED.
- ELECTRICAL CONTRACTOR TO COORDINATE THE EXACT MCA/MCCP REQUIREMENTS OF ALL EQUIPMENT WITH ALL OTHER TRADES PRIOR TO PRICING, ORDERING, OR INSTALLING ANY ELECTRICAL GEAR. THIS SHALL INCLUDE BUT NOT LIMITED TO ALL HVAC, PLUMBING, KITCHEN, OWNER PROVIDED EQUIPMENT, ETC.

ELECTRICAL SYMBOL LEGEND

	CIRCUIT CONDUCTORS CONCEALED IN FLOOR, WALL OR CEILING.
	ARROWHEAD INDICATES HOMERUN TO PANEL NOTED.
	INDICATES HOT LEG OF CIRCUIT TO BE CARRIED OVER TO NEXT DEVICE. SEE PLANS FOR CONTROL SCHEME.
	JUNCTION BOX CEILING MOUNTED.
	JUNCTION BOX FLOOR MOUNTED.
	JUNCTION BOX WALL MOUNTED AT HEIGHT INDICATED ON DRAWINGS.
	SINGLE POLE SWITCH, 20A, 120/277 VOLT, 40" A.F.F. TO CENTER. "3" INDICATES 3-WAY SWITCH. "4" INDICATES 4-WAY SWITCH. "DP" INDICATES DIMMER SWITCH OF TYPE TO SUIT LOAD. "RT" INDICATES RET OPERATED SWITCH. "MT" INDICATES 120V, 20A MOTOR RATED TOGGLE SWITCH.
	INDICATES FLUORESCENT FIXTURES DUAL SWITCHED, INBOARD/OUTBOARD OR SEPARATELY.
	DUPLEX RECEPTACLE, 15 AMP, 120 VOLT, 2" A.F.F. TO BOTTOM UNLESS NOTED OTHERWISE. "GF" INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE. "HP" INDICATES HEATHERPROOF. "EM" INDICATES EMT TYPE RECEPTACLE MOUNTED IN ENCLOSURE. "EM" INDICATES EMT TYPE RECEPTACLE MOUNTED IN ENCLOSURE. "EM" INDICATES EMT TYPE RECEPTACLE MOUNTED IN ENCLOSURE. "EM" INDICATES EMT TYPE RECEPTACLE MOUNTED IN ENCLOSURE.
	QUADRUPLEX RECEPTACLE, AS ABOVE, 2" A.F.F. TO BOTTOM UNLESS NOTED OTHERWISE.
	HEAVY DUTY ELECTRICAL FUSE PER CONNECTION NUMBER INDICATE FRAME SIZE, NUMBER OF POLES AND RATING. PROVIDE IN ENCLOSURE INSIDE. PROVIDE NEMA 3 ENCLOSURE FOR SWITCHES MOUNTED OUTSIDE. "FP" INDICATES FUSE PER EQUIPMENT NAMEPLATE. "NF" INDICATES NON-FUSE.
	200V/200V PANEL, SURFACE OR RECESS MOUNTED, SEE SCHEDULE FOR DETAILS.
	120V/277V PANEL, SURFACE OR RECESS MOUNTED, SEE SCHEDULE FOR DETAILS.
	PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR. PROVIDE DISCONNECTING MEANS AS REQUIRED.
	PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR. PROVIDE DISCONNECTING MEANS AS REQUIRED.
	RECESSED MOUNTED 2x4 FLUORESCENT TROFFER, SEE FIXTURE SCHEDULE FOR DETAILS.
	TRACK LIGHTING FIXTURE, SEE FIXTURE SCHEDULE FOR DETAILS.
	SURFACE MOUNTED FLUORESCENT STRIP, SEE FIXTURE SCHEDULE FOR DETAILS.
	HALL MOUNTED LIGHTING FIXTURE, SEE FIXTURE SCHEDULE FOR DETAILS.
	SURFACE, RECESSED OR GROUND MOUNTED LIGHTING FIXTURE, SEE FIXTURE SCHEDULE FOR DETAILS.
	ELECTRIC UTILITY METER LOCATION.
	EXIT LIGHT, CEILING AND WALL MOUNTED RESPECTIVELY, SHADING INDICATES FACE. PROVIDE RED LETTERS WITH BLACK HOUSING AND EMERGENCY BATTERY PACK RATED FOR 90 MINUTE DURATION. WIRE TO HOT LEG OF LOCAL LIGHTING CIRCUIT.
	EMERGENCY LIGHT, WALL MOUNTED WITH EMERGENCY BATTERY PACK RATED FOR 90 MINUTE DURATION. WIRE TO HOT LEG OF LOCAL LIGHTING CIRCUIT.
	REMOTE MOUNTED LAMP HEAD, WALL MOUNTED WITH EMERGENCY BATTERY PACK RATED FOR 90 MINUTE DURATION. WIRE TO HOT LEG OF LOCAL LIGHTING CIRCUIT.
	SPRINKLER MONITORING PANEL, SURFACE MOUNTED.
	AIRCRAFT GROUNDING POINT, SEE ARCHITECTURE PLANS FOR EXACT LOCATIONS. EQUAL TO ROBBINS LIGHTNING MODEL 680A ON 3/4" EXTENSION ROD. PROVIDE #2 GND CONNECTION TO GROUND RING.
	CEILING MOUNTED OCCUPANCY SENSOR SET FOR 30 MINUTES.
	HALL MOUNTED AT 48" AFF OCCUPANCY SENSOR SET FOR 30 MINUTES.
	HALL MOUNTED AT 48" AFF OCCUPANCY/VACANCY SENSOR WITH DIMMING CONTROLS.
	LIGHTING CONTROL STATION

ELECTRICAL ABBREVIATIONS

10'	DIMENSION INDICATES HEIGHT ABOVE FINISHED FLOOR AT #404 CENTER OF DEVICE IS TO BE MOUNTED.
AFF	ABOVE FINISHED FLOOR.
AFG	ABOVE FINISHED GRADE.
EC	ELECTRICAL CONTRACTOR.
FPN	FUSE PER EQUIPMENT NAMEPLATE REQUIREMENTS.
GC	GENERAL CONTRACTOR.
MC	MECHANICAL CONTRACTOR.
PC	PLUMBING CONTRACTOR.
HP	INDICATES DEVICE TO HAVE WEATHERPROOF COVER.
UN	UNLESS OTHERWISE NOTED.
FACP	FIRE ALARM CONTROL PANEL.



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REVISIONS

DATE	AUGUST 2, 2019
PROJECT NUMBER	9217-000

SHEET TITLE
NOTES, LEGEND, AND SCHEDULES

SHEET NUMBER
E1