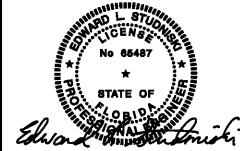


SEAL:



04/03/2019
 DATE ISSUED
 65487
 REG. NO.

LUCKY BRAND

DANIA POINTE

1763 POINTE BLVD
 DANIA BEACH, FL
 33004

SPACE #M115

SPECIALTY

SHEET TITLE:
 ELECTRICAL
 TITLE SHEET

REVISIONS:
 ORIGINAL ISSUE: 01.17.19
 NO. 1 DATE: 04/03/19 BY: BLDG

PROJECT NO: 18028.008
 DRAWN BY: ALH

EO

GENERAL PROJECT NOTES

GENERAL

- REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES AND DEVICES.
- LETTER THUS "A" - INDICATES TYPE OF LIGHTING FIXTURES. REFER TO LIGHTING FIXTURE TYPES AS NOTED ON THE LIGHTING FIXTURE SCHEDULE.
- PROVIDE ENGRAVED NAMEPLATES ON SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, MOTOR CONTROL CENTERS, TRANSFORMERS, ETC. INDICATING EQUIPMENT DESIGNATIONS (OR DESIGNATION OF EQUIPMENT SERVED) AND VOLTAGE.
- ANY ELECTRICAL BOX THAT BECOMES ABANDONED DURING THE COURSE OF OF THE PROJECT SHALL HAVE A BLANK COVER PLATE.
- VERIFY LOCATION OF ALL FLOOR OUTLETS WITH ARCHITECT PRIOR TO ROUGH-IN.
- MOUNT MANUAL FIRE ALARM STATIONS AT 42" ON THE HORIZONTAL CENTER LINE OF THE ADJACENT SWITCH.
- WHERE OTHER ELECTRICAL DEVICES ARE LOCATED ADJACENT TO LIGHT SWITCHES, MOUNT ALL DEVICES AT THE SAME CENTER LINE ELEVATION.
- DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.
- FINAL CONNECTIONS TO EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS, AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
- MOUNT TERMINATION POINTS, USING PERMANENT METALLIC TAGS. TAG SHALL INDICATE INTENDED USE OF CONDUIT, ORIGIN AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
- EMPTY RACEWAY SYSTEMS SHALL HAVE A PULLWIRE OR EQUAL AND SHALL BE IDENTIFIED AT JUNCTION, PULL, AND TERMINATION POINTS, USING PERMANENT METALLIC TAGS. TAG SHALL INDICATE INTENDED USE OF CONDUIT, ORIGIN AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
- IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO APPROVE METHODS AND MATERIALS NOT REFLECTED HEREIN.
- CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS AND SHALL PROVIDE LIGHTS, SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, EQUIPMENT CONNECTORS, ETC. AND ASSOCIATED CIRCUITING IN NEW AND REMODELED AREAS, EVEN IF SUCH AREAS ARE NOT SHOWN ON ELECTRICAL DRAWINGS. LAYOUTS, FIXTURE TYPES, QUANTITIES, AND SPACING SHALL BE IN ACCORDANCE WITH SIMILAR AREAS ON THIS PROJECT. CONTRACTOR SHALL INCLUDE COSTS FOR THE ABOVE IN HIS/HER BID. IN ADDITION CONTRACTOR SHALL PROVIDE LAYOUT DRAWINGS FOR WORK IN SUCH AREAS AND SUBMIT FOR APPROVAL PRIOR TO ROUGH-IN.
- CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND VERIFY THAT CONDITIONS ARE AS INDICATED. CONTRACTOR SHALL INCLUDE IN HIS/HER BID, COSTS REQUIRED TO MAKE HIS/HER WORK MEET EXISTING CONDITIONS.
- WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT.
- PROVIDE PERMITS AND INSPECTIONS REQUIRED.
- VERIFY THAT EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.
- SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. NOTICES SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER.
- PROVIDE EXTERIOR ELECTRICAL BOXES AND HANDHOLES AS REQUIRED TO COMPLETE WORK INDICATED. SPICES IN EXTERIOR PULL BOXES AND HANDHOLES SHALL BE MADE WATERPROOF USING "SCOTCHCAST" SPlice KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS WITH "DUCTSEAL" OR APPROVED EQUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING OR FACTORY WIRING IN EQUIPMENT PROVIDED BY THIS CONTRACTOR.
- CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS REASON TO SUBSTITUTE ALTERNATE MATERIALS, EQUIPMENT, OR INSTALLATION METHODS.
- SYSTEMS SHALL BE COMPLETE, OPERABLE, AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC. SHALL BE CONNECTED AND OPERABLE.
- VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING, AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND /OR WIRE), PULLBOXES, TRANSFORMER PADS, SAW CUTTING AND PATCHING, CONCRETE/PAVING, ETC. REQUIRED. BACKFILL TRENCHES TO AND PATCH TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY DRAWINGS AND REQUIREMENTS.
- PANEL DIRECTORIES SHALL BE REMOVABLE. SUBMIT PROPOSED SCHEDULE OF DIRECTORIES TO OWNER FOR APPROVAL. ROOM NAMES AND NUMBERS SHALL BE AS DIRECTED BY OWNER. DIRECTORIES SHALL BE TYPED AND INSTALLED UNDER CLEAR PLASTIC COVERS.
- WIRING SHALL BE INSTALLED IN LISTED METALLIC RACEWAYS. RACEWAYS I SLAB-ON-GRADE OR BELOW GRADE SHALL BE SCHEDULE 40 PVC. TRANSITIONS FROM BELOW TO ABOVE GRADE SHALL BE WITH RIGID STEEL ELBOWS WITH PVC JACKET OR PROVIDED EQUAL PROTECTION. EMT FITTING SHALL BE MALLEABLE IRON OR STEEL. CONNECTORS SHALL BE UNSULATED THROAT TYPE.
- BRANCH CIRCUIT AND FEEDER CONDUITS SHALL HAVE A CODE SIZED COPPER GROUNDING CONDUCTOR. INCREASE CONDUIT SIZE AS REQUIRED.
- FIRE ALARM, SOUND, TELEPHONE, COMPUTER, AND SIMILAR SYSTEMS CONDUITS LARGER THAN 1" SHALL HAVE LONG RADIUS SWEEPS (12 TIMES THE DIAMETER).
- CONDUITS PENETRATING THRU ROOF SHALL BE CONSTRUCTED IN CONFORMANCE WITH "BUILT-UP BITUMINOUS ROOFING" SECTION 07510 AND " SHEET METAL FLASHING AND TRIM" SECTION 07620.
- FINAL CONNECTIONS TO MOTORS, TRANSFORMERS, AND OTHER VIBRATING EQUIPMENT SHALL BE WITH LIQUIDTIGHT FLEX METAL CONDUIT AND FITTINGS. DO NOT SECURE CONDUITS, DISCONNECTS, OR DEVICES TO DUCTWORK OR MECHANICAL EQUIPMENT.
- ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY CUL OR OTHER RECOGNIZED TESTING FACILITY.
- BRANCH CIRCUIT CONDUCTORS RATED 120 VOLTS TO GROUND SHALL BE INSTALLED A MAXIMUM OF 100 LF LENGTH FOR A #12 CONDUCTOR.
- BRANCH CIRCUIT CONDUCTORS RATED 277 VOLTS TO GROUND SHALL BE INSTALLED A MAXIMUM OF 200 LF LENGTH FOR A #12 CONDUCTOR.
- PULLBOXES, CABINETS, ETC. MOUNTED ON THE EXTERIOR AT GRADE LEVEL, SHALL BE WEATHERPROOF TYPE WITH HINGED LOCKABLE COVERS SECURED WITH TAMPERPROOF SCREWS.

LIGHTING

- FIXTURES INDICATED AS BEING ON EMERGENCY OR NIGHT LIGHT CIRCUITS SHALL BE PROVIDED WITH SELF-CONTAINED BATTERY POWERED INVERTER UNIT FOR DIRECT MOUNTING IN FIXTURE. PROVIDE UNIT WITH FULLY AUTOMATIC TWO RATE CHARGER, NICKEL CADMIUM BATTERY, AC "ON" PILOT LIGHT, AND TEST SWITCH. DESIGN AND WIRE UNIT TO AUTOMATICALLY TRANSFER TO BATTERY SUPPLY UPON LOSS OF NORMAL AC POWER AND TO OPERATE FIXTURE WITH MINIMUM OUTPUT OF 1000 LUMENS FOR MINIMUM 1-1/2 HOURS.
- RECESSED LIGHT FIXTURES INSTALLED IN GYP BOARD OR PLASTER CEILINGS SHALL HAVE PLASTER FRAMES INSTALLED PRIOR TO CEILING MATERIAL.
- RECESSED FIXTURES INSTALLED INDOORS SHALL BE THERMALLY PROTECTED.
- VERIFY TYPE OF CEILING CONSTRUCTION FOR PROPER MOUNTING OF RECESSED LIGHT FIXTURES. INSTALLATION OF LIGHT FIXTURES SHALL COMPLY WITH INTERNATIONAL BUILDING CODE REQUIREMENTS.
- LIGHTING FIXTURES LOCATED SO AS TO DISRUPT A FIRE RATED CEILING SHALL BE ENCASED OR SURROUNDED IN A FIRE PROTECTION MATERIAL AND FIBER BOARD. PROTECTIVE MATERIAL IS TO BE INSTALLED AS PER THE FIRE RESISTANCE INDEX. VERIFY WITH ARCHITECTURAL DRAWINGS THE HOUR RATINGS AND TYPE OF CEILING TO BE USED.
- RECESSED LIGHTING FIXTURES INSTALLED INTO METAL SUSPENDED CEILING SYSTEMS FOR LAY-IN TILES AND PANELS SHALL BE INSTALLED AND SUPPORTED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE ASTM C635 AND C636.
- FIXTURES INSTALLED IN LIGHT DUTY CEILING SYSTEMS SHALL HAVE SEPARATE SUPPORTING MEMBERS. FIXTURES INSTALLED IN INTERMEDIATE DUTY AND HEAVY DUTY CEILING SYSTEMS SHALL HAVE SEPARATE SUPPORTING MEMBERS. WHEN THE WEIGHT OF THE FIXTURES EXCEEDS THE DEFLECTION AND ROTATION REQUIREMENTS OF ASTM C36 2.4.1 & 4.

FIRE ALARM

FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE DEVICES, CONDUIT, WIRES AND CABLE AS DIRECTED BY EQUIPMENT MANUFACTURER. MATERIALS, EQUIPMENT, AND WORKMANSHIP SHALL MEET PREVAILING CODES. THE SYSTEM SHALL BE COMPLETE AND OPERABLE IN EVERY RESPECT.

COMMUNICATIONS

- BOXES FOR TELEPHONE, TV, DATA, WIRING DEVICES, ETC. SHALL BE MINIMUM TWO GANG WITH SINGLE GANG MUD RING.
- SOUND SYSTEM. CONTRACTOR SHALL PROVIDE CONDUIT, JUNCTION BOXES FOR SOUND SYSTEM COMPLETE RACEWAY SYSTEM. CONDUIT SHALL BE A MINIMUM OF 3/4". UNLESS NOTED, SOUND SYSTEM CONTRACTOR SHALL FURNISH AND INSTALL SPEAKER WIRE, VOLUME CONTROLS, MICROPHONES, AMPLIFIERS, SPLITTERS, ETC.
- SECURITY SYSTEM. CONTRACTOR SHALL PROVIDE CONDUIT, JUNCTION BOXES (MINIMUM TWO GANG) FOR A COMPLETE RACEWAY SYSTEM. CONDUIT SHALL BE 3/4" MINIMUM UNLESS NOTED. SECURITY SYSTEM CONTRACTOR SHALL INSTALL SECURITY PANELS, CAMERAS, WIRE, SECURITY DEVICES, ETC.

ELECTRICAL SYMBOLS SCHEDULE					
SYMBOL	DESCRIPTION	MTG HT	SYMBOL	DESCRIPTION	MTG HT
	FIXTURE RECESSED MOUNTED	CEILING		PUSHBUTTON - SINGLE	
	FIXTURE SURFACE MOUNTED	CEILING		TOGGLE SWITCH - MOTOR RATED	
	STRIP TYPE FIXTURE			THERMOSTAT	60"
	ROUND DOWN LIGHT TYPE FIXTURE	CEILING		MOTOR WITH ELECTRICAL CONNECTION; REFER TO MOTOR SCHEDULE (MECHANICAL EQUIPMENT CROSS REFERENCE)	
	WALL MOUNT FIXTURE			FUSED DISCONNECT SWITCH	
	PENDANT TYPE FIXTURE			TELEPHONE	18"
	TRACK LIGHTING WITH HEADS SPACED AS INDICATED			COMMUNICATIONS BOARD SIZE AS INDICATED	
	EXIT LIGHT FACE/DIRECTIONAL ARROWS AS INDICATED			DATA OUTLET	
	EXIT LIGHT WITH EMERGENCY HEADS DIRECTIONAL ARROWS AS INDICATED			COMBINATION PHONE/DATA OUTLET	
	LIGHT FIXTURE ON EMERGENCY CIRCUIT			CHIME	
	EMERGENCY LIGHTING UNIT			FIRE ALARM STROBE	90"
	SINGLE POLE SWITCH - LETTER INDICATES SWITCH LEG	46"		FIRE ALARM HORN/STROBE	90"
	DOUBLE POLE, 3-WAY AND 4-WAY	46"		FIRE ALARM CEILING STROBE	CEILING
	DIMMER - LETTER DENOTES TYPE - SEE SPECIFICATIONS	46"		FIRE ALARM CEILING HORN/STROBE	CEILING
	LINE VOLTAGE RELAY			FIRE ALARM CONTROL PANEL	
	CONTACTOR PROVIDE # OF POLES AS NOTED			FIRE ALARM ANNUNCIATOR PANEL	
	TIME SWITCH AS NOTED OR SPECIFIED			FIRE ALARM PULL STATION	
	OCCUPANCY SENSOR				
	OCCUPANCY SENSOR WALL SWITCH BOX MOUNTED	46"			
	PHOTOSENSOR				
	DUPLEX WP INDICATES WEATHERPROOF IN-USE COVER SS INDICATES STAINLESS STEEL FACEPLATE CP INDICATES CHILDPROOF RECEPTACLE GF1 INDICATES GROUND FAULT	18"			
	FOURPLEX	18"			
	CEILING MOUNT DUPLEX RECEPTACLE	18"			
	CEILING WITH FLEX	CEILING			
	JUNCTION BOX - CEILING	CEILING			
	JUNCTION BOX - WALL				
	FLOOR	FLOOR			
	GROUND				
	METER				
	PANEL SURFACE (BRANCH)				
	PANEL FLUSH (BRANCH)				
	TRANSFORMER				

NOTES:
 1. THESE SYMBOLS COMPRISE A STANDARD LIST; ALL SYMBOLS MAY NOT APPEAR ON THIS PROJECT.
 2. MOUNTING HEIGHTS SHOWN ARE STANDARD AND SHALL BE USED UNLESS INDICATED OTHERWISE. MOUNTING HEIGHTS ARE TO CENTERLINE OF DEVICE, UNLESS INDICATED OTHERWISE.

Order Plans @