

ELECTRICAL LEGEND

SYMBOL		DESCRIPTION
EXISTING	PROVIDE	LIGHTING
	A	LIGHTING FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE ON SHEET ES002
		INCANDESCENT, HIGH INTENSITY DISCHARGE (H.I.D.) OR COMPACT FLUORESCENT LIGHTING FIXTURE (-I INDICATES BRACKET, WALL MOUNTED FIXTURE)
		FLUORESCENT LIGHTING FIXTURE (-I INDICATES BRACKET, WALL MOUNTED FIXTURE)
		EXIT LIGHTING FIXTURE. ARROW, WHEN USED, INDICATES DIRECTION. TYPE △ U.O.N. (-I INDICATES BRACKET, WALL MOUNTED FIXTURE). FILLED-IN QUADRANT(S) OF SYMBOL INDICATES NUMBER AND ORIENTATION OF ILLUMINATED FACES.
		EMERGENCY BATTERY POWERED LIGHTING UNIT. TYPE △ U.O.N.
	S	SINGLE POLE SWITCH, 20 A, 120/277 V.
	S3	THREE-WAY SWITCH, 20 A, 120/277 V.
	PE	PHOTO-ELECTRIC SWITCH
POWER DEVICES		
		DUPLEX CONVENIENCE RECEPTACLE, 15 A, 125 VAC, MOUNT 18" AFF UON.
		DUPLEX CONVENIENCE RECEPTACLE WITH INTERNAL GROUND FAULT PROTECTION, 15 A, 125 VAC, MOUNT 18" AFF UON. "WP" INDICATES WEATHERPROOF OUTLET.
		DUPLEX CONVENIENCE RECEPTACLE WITH INTERNAL GROUND FAULT PROTECTION, 15 A, 125 VAC, MOUNT 48" AFF OR 6" ABOVE BACKSPLASH OR COUNTER TOP.
		SPECIAL PURPOSE RECEPTACLE.
LIGHTNING PROTECTION		
		LIGHTNING PROTECTION SYSTEM AIR TERMINAL
		LIGHTNING PROTECTION SYSTEM ROOF CONDUCTOR
		LIGHTNING PROTECTION SYSTEM MAIN DOWN CONDUCTOR
		DRIVEN GROUND ROD
		GROUND ROD WITH INSPECTION PIT

SYMBOL		DESCRIPTION
EXISTING	PROVIDE	EQUIPMENT CONNECTIONS
		MOTOR CONNECTION AS INDICATED
		JUNCTION BOX
		DISCONNECT SWITCH, 600V IN NEMA 1 ENCLOSURE UON. 3P = NO. OF POLES, 60 = SWITCH RATING, 40 = FUSE RATING (NF INDICATES NON-FUSIBLE).
		VARIABLE FREQUENCY DRIVE CONNECTION (DRIVE FURNISHED WITH EQUIPMENT), UNLESS NOTED OTHERWISE.
		MOTOR RATED SWITCH WITH OVERLOADS AND HANDLE GUARD. SIZE TO MATCH EQUIPMENT BEING SUPPLIED.
DISTRIBUTION		
		PANELBOARD - 208Y/120V
		PANELBOARD - 480Y/277V
		DRY TYPE TRANSFORMER, SIZE AS INDICATED.
WIRE, CONDUIT AND RACEWAY		
		BRANCH CIRCUIT OR FEEDER WIRING IN CONDUIT. NO TICK MARKS INDICATE 2 #12 CONDUCTORS & 1 #12 GND. IN 1/2" CONDUIT UON. TICK MARKS, WHEN SHOWN, INDICATE NUMBER OF #12 CONDUCTORS IF OTHER THAN THREE, (-I) INDICATES GROUND, CONDUIT LARGER THAN 1/2" AND WIRE LARGER THAN #12 SHALL BE AS INDICATED.
		HOMERUNS TO PANEL. PANEL AND CIRCUIT DESIGNATIONS AS INDICATED.
		INDICATES A CONDUIT RUN CONCEALED IN CEILING, WALL, FLOOR, OR ABOVE SUSPENDED CEILING UON.
		CONDUIT TURNED UP
		CONDUIT TURNED DOWN
FIRE ALARM		
		FIRE ALARM CONTROL PANEL (FACP)
		FIRE ALARM PULL STATION, MOUNT @48" AFF
		FIRE ALARM STROBE/HORN, MOUNT @84" AFF
		DUCT SMOKE DETECTOR
		FIRE ALARM SMOKE DETECTOR
		FIRE ALARM HEAT DETECTOR

LEGEND NOTES

- WIRE AND CONDUIT FOR MOTOR AND EQUIPMENT LOADS SHALL BE CONTINUOUS IN SIZE AND FROM SOURCE TO FINAL CONNECTION. SIZE AND COUNT SHALL BE AS INDICATED ON THE CIRCUIT HOMERUN UNLESS OTHERWISE NOTED.
- WHERE BRANCH CIRCUIT HOMERUNS ARE LABELED "SPLIT CIRCUIT" (SC), THE BRANCH CIRCUIT NUMBER INDICATED HAS BEEN USED ON MORE THAN ONE HOMERUN INDICATOR. INSTALL ONLY ONE CONDUCTOR PER CIRCUIT BREAKER POLE WITHIN THE PANELBOARD ENCLOSURE. SPLICES NECESSARY TO SPLIT THE CIRCUIT SHALL BE MADE IN A SEPARATE SPLICE BOX OUTSIDE THE PANELBOARD ENCLOSURE.
- COORDINATE EXACT LOCATION OF CEILING MOUNTED LIGHTING FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- BRANCH CIRCUIT WIRING TO EXIT LIGHT FIXTURES AND TO THE BATTERY INVERTERS SHALL BE UNSWITCHED, CONNECTED AHEAD OF ANY CONTROL SWITCHES.
- WHERE A NEW-TO-EXISTING CONNECTION IS INDICATED, THE CONTRACTOR SHALL PROVIDE ALL MATERIALS (JUNCTION BOXES, CONDUIT, WIRE, ETC.) AND LABOR REQUIRED TO MAKE THE CONNECTION.

ABBREVIATIONS

A	AMPERE	KAIC	THOUSAND AMP INTERRUPTING CAPACITY, RMS SYMMETRICAL
A/C	AIR CONDITIONING	KCMIL	THOUSAND CIRCULAR MILS
AF	AMPERE FRAME	KWH	KILOWATT HOUR
AFF	ABOVE FINISHED FLOOR	KVA	KILOVOLT AMPERE
AFG	ABOVE FINISHED GRADE	LTG	LIGHTING
AHU	AIR HANDLING UNIT	MATV	MASTER ANTENNA TELEVISION
AT	AMPERE TRIP	MCB	MAIN CIRCUIT BREAKER
ATC	AUTOMATIC TEMPERATURE CONTROL	MLO	MAIN LUG ONLY
AWG	AMERICAN WIRE GAUGE	MT	MOUNT
BG	BELOW GRADE	MTD	MOUNTED
BK/BD	BACKBOARD	MTG HT	MOUNTING HEIGHT
BLDG	BUILDING	NF	NON-FUSED
BRKR	BREAKER	N/O	NORMALLY OPEN
C	CONDUIT	NEU	NEUTRAL
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CKT	CIRCUIT	P	POLE
DISC SW	DISCONNECT SWITCH	PH	PHASE
DWG	DRAWING	PNL	PANEL
EC	EMPTY CONDUIT	PVC	POLY VINYL CHLORIDE
EF	EXHAUST FAN	QTY	QUANTITY
EMT	ELECTRICAL METALLIC TUBING	RECEPT	RECEPTACLE
EQUIP	EQUIPMENT	REQ'D	REQUIRED
EWC	ELECTRIC WATER COOLER	SC	SPLIT CIRCUIT
EXIST	EXISTING	SF	SUPPLY FAN
FACP	FIRE ALARM CONTROL PANEL	S/N	SOLID NEUTRAL
FCU	FAN COIL UNIT	SRG	SIGNAL REFERENCE GROUND
FLA	FULL LOAD AMPS	SW	SWITCH
FLUOR	FLUORESCENT	UH	UNIT HEATER
FMU	FIELD MULTIPLEXING UNIT	UG	UNDERGROUND
GFI	GROUND FAULT INTERRUPTER	UON	UNLESS OTHERWISE NOTED
GND	GROUND	V	VOLTS
GRS	GALVANIZED RIGID STEEL	VAC	VOLTS ALTERNATING CURRENT
HID	HIGH INTENSITY DISCHARGE	VDC	VOLTS DIRECT CURRENT
HH	HANDHOLE	W	WIRE
HP	HORSEPOWER	WP	INDICATES WEATHERPROOF EQUIPMENT
		XFMR	TRANSFORMER

DEMOLITION NOTES

- DRAWINGS ARE BASED ON RECORD DRAWINGS AND FIELD INVESTIGATION. CONTRACTOR SHALL EXAMINE PLANS AND VISIT THE BUILDING/SITE TO AVOID CONFLICTS. FIELD VERIFY ACTUAL CONDITIONS AND COORDINATE WITH PRIOR TO COMMENCING WORK.
- CONDUITS NOT REUSED SHALL BE REMOVED IF THEY WILL BE EXPOSED AFTER COMPLETION OF CONSTRUCTION, OTHERS MAY BE ABANDONED IN CEILING OR UNDER FLOOR. DISCONNECT WIRING FROM POWER SOURCES, REMOVE WIRING FROM ABANDONED CONDUITS, AND PROVIDE BLANK PLATES ON ABANDONED OUTLETS. (SEE SPECIFICATIONS FOR TYPE FINISHES.)
- WHERE NEW TO EXISTING CONNECTIONS ARE REQUIRED PROVIDE JUNCTION BOXES, EXTENSION RINGS, CONDUIT FITTINGS, SPLICES, COVERS AND MISCELLANEOUS HARDWARE.
- WHERE CUTTING AND PATCHING IS REQUIRED FOR MOUNTING OUTLETS, CONCEALED CONDUIT, ETC., PATCH, PAINT AND SEAL SURFACES TO MATCH EXISTING SURROUNDING SURFACES.
- USE EXTREME CARE IN REMOVAL OF ELECTRICAL EQUIPMENT SO AS NOT TO DAMAGE CONDUITS, WIRING OR ADJACENT WALLS TO REMAIN.
- RETURN TO THE (OWNER) EQUIPMENT THAT IS NOT INDICATED TO BE REUSED (WITH EXCEPTION OF CONDUIT AND WIRING.)

ELECTRICAL SPECIFICATIONS

- SCOPE-WORK INCLUDED IS FURNISHING AND INSTALLING COMPLETE WORKING SYSTEMS, TESTED READY FOR OPERATION, COMPLETE WITH LABOR, MATERIALS, APPARATUS, TRANSPORTATION AND TOOLS REQUIRED FOR THE INSTALLATION IN CONFORMANCE WITH DRAWINGS AND SPECIFICATIONS.
- THE WORD PROVIDE AS USED HEREINAFTER SHALL BE DEFINED TO MEAN THE FURNISHING OF LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE WORK DESCRIBED.
- COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.
- SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
- CONTRACTOR SHALL GUARANTEE ALL ELECTRICAL WORK FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
- COORDINATE WORK CLOSELY WITH ALL TRADES.
- KEEP ALL WORK AREAS CLEAN, CLEAN ALL EQUIPMENT, ETC., PRIOR TO FINAL PAINTING AND AT COMPLETION OF PROJECT.
- WIRE SHALL BE COPPER 600 VOLTS MINIMUM AWG #12, TYPE THW, THWN OR THHN AS APPLICABLE.
- ALL WIRING SHALL BE IN CONDUIT, MINIMUM SIZE THREE-QUARTER INCH WITH LARGER SIZES AS INDICATED OR REQUIRED BY NEC, ALL CONDUITS IN DAMP AND WET LOCATIONS WHERE EXPOSED WITHIN 8 FEET OF FINISH FLOOR AND WHERE EVER SUSCEPTIBLE TO PHYSICAL DAMAGE SHALL BE RIGID GALVANIZED STEEL. ALL OTHERS MAY BE EMT UNLESS NOTED OTHERWISE. PROVIDE STEEL COMPRESSION FITTINGS FOR EMT.
- ALL CONDUITS IN FINISHED AREAS SHALL BE RUN CONCEALED ABOVE CEILINGS, IN WALLS, AND, IN OR BELOW FLOORS UNLESS OTHERWISE NOTED. ALL CONDUITS SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING CONSTRUCTION.
- ALL LIGHT SWITCHES SHALL BE COMMERCIAL GRADE.
- ALL RECEPTACLES SHALL BE COMMERCIAL GRADE.
- WIRING DEVICE PLATES IN FINISHED AREAS SHALL MATCH EXISTING. PLATES SHALL BE ZINC-COATED SHEET STEEL IN UNFINISHED AREAS.
- LIGHTING FIXTURES AND OTHER EQUIPMENT SPECIFIED SHALL BE AS INDICATED ON THE DRAWINGS.
- PROVIDE A COMPLETE AND OPERABLE EXIT AND EMERGENCY LIGHTING SYSTEM AS INDICATED ON THE DRAWINGS AND AS REQUIRED BY NEC, NFPA AND STATE AND LOCAL CODES.
- EXISTING ELECTRICAL SERVICE IS 600A 480Y/277V, THREE PHASE, 4 WIRE. SEE FLOOR PLANS FOR PANEL LOCATIONS.

CORRECTED FINAL

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