

ELECTRICAL SYMBOLS LEGEND

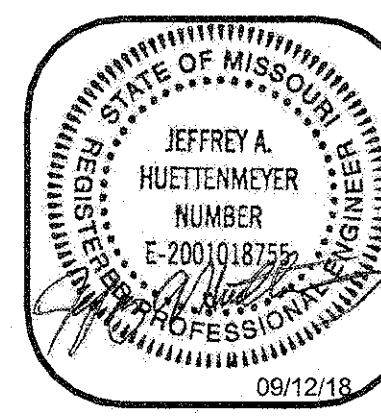
LIGHTING FIXTURES		AUXILIARY SYSTEMS	
	LUMINAIRE - CEILING MOUNTED. ALPHA NUMERIC DESIGNATION DENOTES TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION.		SPEAKER - CEILING MOUNTED.
	LUMINAIRE - AS ABOVE - WALL MOUNTED 84" AFF (U.N.O.)		SPEAKER - WALL MOUNT 84" AFF.
	LED FLUORESCENT OR H.I.D. FIXTURE - AS ABOVE - CEILING MOUNTED OR PENDANT MOUNTED TO HEIGHT INDICATED.		INTERCOM STATION - MOUNT 46" AFF.
	WALL MOUNTED FIXTURE - AS ABOVE - MOUNTING HEIGHT AS PER PLANS.		VOLUME CONTROL - MOUNT 46" AFF.
	EXIT LIGHT - CEILING MOUNTED; WALL MOUNT 7'-6" AFF OR ABOVE DOOR SHADED PORTION INDICATES FACE; WITH DIRECTIONAL ARROW(S) AS INDICATED. FIXTURE TYPE "X" (U.N.O.)		DUPLEX MICROPHONE OUTLET - MOUNT 18" AFF.
	COMBINATION EXIT LIGHT WITH EMERGENCY LIGHTING HEADS. FIXTURE TYPE "X1" (U.N.O.)		DUPLEX MICROPHONE OUTLET - FLOOR MOUNTED.
	EMERGENCY LIGHT - BATTERY OPERATED - WALL MOUNTED 84" AFF (U.N.O.); FIXTURE TYPE "Y" (U.N.O.)		MICROPHONE OUTLET - CEILING MOUNTED FOR CORD HUNG DEVICE.
	BOLLARD FIXTURE.		TIME CLOCK.
	LIGHT POLE WITH SINGLE HEAD LUMINAIRE.		PUSHBUTTON - MOUNT 46" AFF.
	LIGHT POLE WITH MULTIPLE HEADS (AS INDICATED).		BELL - MOUNT 84" AFF.
	SHADING DENOTES EMERGENCY FIXTURE.		VOICE OUTLET - MOUNT 18" AFF; W INDICATES WALL MOUNT 46" AFF.
	FIXTURE CIRCUITRY NOTATION: 1 - CIRCUIT NUMBER TO WHICH FIXTURE IS CONNECTED ab - LETTERS OF SWITCHES CONTROLLING FIXTURE NL - NIGHT LIGHT (UNSWITCHED CIRCUIT)		DATA OUTLET - MOUNT 18" AFF.
	WIRING DEVICES		DATA OUTLET - 8" ABOVE COUNTER.
	S ¹ SINGLE POLE SWITCH - "1" INDICATES SWITCH LEG - MOUNT 46" AFF.		FLOOR MOUNTED DATA OUTLET.
	S ² DOUBLE POLE SWITCH - AS ABOVE.		COMBINATION VOICE & DATA OUTLET - MOUNT 18" AFF.
	S ³ THREE-WAY SWITCH - AS ABOVE.		COMBINATION VOICE & DATA OUTLET - 8" ABOVE COUNTER.
	S ⁴ FOUR-WAY SWITCH - AS ABOVE.		FLOOR MOUNTED COMBINATION VOICE & DATA OUTLET.
	S ^K KEY OPERATED SWITCH - AS ABOVE.		WIRELESS ACCESS POINT - CEILING MOUNTED, U.N.O.
	S ^P SWITCH WITH PILOT LIGHT - AS ABOVE.		TELEPHONE TERMINAL BOARD - 3/4" FIRE RETARDANT PLYWOOD, 4" x 8" (U.N.O.)
	S ^M MANUAL MOTOR STARTER WITH OVERLOAD PROTECTION - MOUNT ON SIDE OF UNIT OR AT 46" AFF.		T.V. OUTLET - MOUNT 18" AFF U.N.O.
	S ^{OS} OCCUPANCY SENSOR WALL MOUNTED, MOUNT 46" AFF. "2" INDICATES DUAL RELAY.	ONE-LINE DIAGRAMS	
	S ^D DIMMER SWITCH - AS ABOVE, 1000 WATT RATING OR 0-10V AS REQUIRED. MOUNT 46" A.F.F.		
	DC DIMMER CONTROLLER, AS NOTED ON PLAN.		TRANSFORMER
	TS TIME SWITCH - MOUNT 60" AFF.		PANEL (1 OR 2 SECTIONS AS INDICATED)
	PC PHOTOCELL MOUNTED IN WP OUTLET BOX LOCATED ON ROOF, FACING NORTH, (U.N.O.)		MOLDED CASE CIRCUIT BREAKER - "A" INDICATES AMP FRAME "AT" INDICATES AMP TRIP
	LC LIGHTING CONTRACTOR FOR NUMBER OF CIRCUITS AS INDICATED ON PLAN.	CIRCUITRY DESIGNATIONS	
	OS OCCUPANCY SENSOR, CEILING MOUNTED, "2" INDICATES 2 POLE.		BRANCH CIRCUITRY. CONCEALED IN WALLS OR ABOVE CEILINGS. ARROW INDICATES HOME RUN TO PANEL. SHORT SLASH MARKS INDICATE "HOT" WIRES, LONG SLASH MARK INDICATES "NEUTRAL" WIRE, LONG SLASH WITH SOLID CIRCLE INDICATES GREEN GROUNDING CONDUCTOR.
	JUNCTION BOX OR POINT OF CONNECTION - MOUNT 18" AFF OR AT HEIGHT REQUIRED BY RESPECTIVE EQUIPMENT MANUFACTURER.		BRANCH CIRCUITRY AS ABOVE, CONCEALED IN FLOOR SLAB OR UNDERGROUND.
	DR DUPLEX RECEPTACLE - MOUNT 18" AFF.		BRANCH CIRCUITRY AS ABOVE, EXPOSED ON WALLS OR STRUCTURE.
	DD DOUBLE DUPLEX RECEPTACLE - AS ABOVE.		CIRCUITRY UP - CIRCUITRY DOWN.
	SC SINGLE CONVENIENCE RECEPTACLE - AS ABOVE.	INTRUSION ALARM SYSTEM	
	D8 DUPLEX 8" ABOVE COUNTER OR WALL HUNG LAVATORY.		INTRUSION ALARM PANEL
	DD8 DOUBLE DUPLEX RECEPTACLE 8" ABOVE COUNTER.		KEY PAD
	CM DUPLEX CEILING MOUNTED DUPLEX RECEPTACLE, FLUSH IN CEILING (U.N.O.).		MOTION DETECTOR
	FM FLOOR MOUNTED DUPLEX RECEPTACLE WITH BRASS PLATE AND CARPET FLANGE.		DOOR CONTACT
	SP SPECIAL PURPOSE OUTLET - MOUNT 18" AFF. TYPE AS REQUIRED BY RESPECTIVE EQUIPMENT MFR.		CARD READER/PROX READER
	DI DUPLEX RECEPTACLE WITH ISOLATED GROUND.		REQUEST TO EXIT
	DT TAMPERS PROOF DUPLEX RECEPTACLE.		ELECTRIC STRIKE (FURNISHED BY DIVISION 8)
	CD COMBINATION POWER & DATA VOICE FLOOR BOX OR POKE THRU - "FF" INDICATES FURNITURE FEED.		ELECTRIFIED HARDWARE (FURNISHED BY DIVISION 8)
	PS PLUG-IN STRIP, MOUNT 18" AFF.		MAGNETIC LOCK (FURNISHED BY DIVISION 8)
MOTORS AND EQUIPMENT			GLASS BREAK SENSOR
	30/20/3 DISCONNECT SWITCH (FUSED OR NON-FUSED AS INDICATED) - MOUNT 60" AFF. 30/20/3 INDICATES SWITCH AMP/FUSE AMP/POLES.		VIDEO SURVEILLANCE CAMERA
	MS MOTOR STARTER, NEMA SIZE TO SUIT EQUIPMENT SERVED, WITH HAND-OFF-AUTO SELECTOR SWITCH, (U.N.O.)		DURESOLD UP ALARM
	MSB COMBINATION MOTOR STARTER, AS ABOVE AND DISCONNECT SWITCH.	ABBREVIATIONS	
	30/2 EOB ENCLOSED CIRCUIT BREAKER, AMP/POLES RATING AS INDICATED.		AC ABOVE COUNTER
	CP CONTROL PANEL FOR EQUIPMENT ITEM INDICATED ON PLAN.		AIC AMP INTERRUPTING CURRENT
	VFD VARIABLE FREQUENCY DRIVE FOR EQUIPMENT ITEM INDICATED ON PLAN.		AFC AVAILABLE FAULT CURRENT
	MPB MULTIPLE PUSH BUTTONS - MOUNT 46" AFF, AS INDICATED (U.N.O.)		AFF ABOVE FINISHED FLOOR.
	M ELECTRIC MOTOR.		AF/AFCI ARC FAULT CIRCUIT INTERRUPTER TYPE DEVICE, (U.N.O.)
	NBC NEW BRANCH CIRCUIT PANELBOARD - MOUNT TOP 78" AFF.		ATS AUTOMATIC TRANSFER SWITCH
	EBBC EXISTING BRANCH CIRCUIT PANELBOARD.		CATV CABLE TELEVISION
	SB SWITCHBOARD, DISTRIBUTION PANEL OR MOTOR CONTROL CENTER.		EC ELECTRICAL CONTRACTOR
	DT DRY-TYPE TRANSFORMER.		ELEV ELEVATOR CONTRACTOR
	KWH KILOWATT HOUR METER BASE.		EM EMERGENCY
FIRE ALARM SYSTEM			EW C ELECTRIC WATER COOLER, ROUGH-IN RECEPTACLE INCONSPICUOUSLY, COORDINATE WITH PC
	FACP FIRE ALARM CONTROL PANEL - MOUNT TOP 72" AFF.		EX EXISTING
	FAAP FIRE ALARM ANNUNCIATOR PANEL - MOUNT TOP 72" AFF.		FLA FULL LOAD AMPS
	DACT DIGITAL ALARM COMMUNICATOR TRANSMITTER.		FPC FIRE PROTECTION CONTRACTOR
	FAPS FIRE ALARM POWER SUPPLY - MOUNTED 72" A.F.F.		FSS FUSIBLE SAFETY SWITCH
	MPS MANUAL PULL STATION - MOUNT 46" AFF.		GC GENERAL CONTRACTOR
	SD SMOKE DETECTOR - CEILING MOUNTED.		GFI/GFCI GROUND FAULT CIRCUIT INTERRUPTER TYPE DEVICE, (U.N.O.)
	SS SINGLE STATION SMOKE ALARM - CEILING MOUNTED - "CO" INDICATES COMBINATION CARBON MONOXIDE ALARM.		H.I.D. HIGH INTENSITY DISCHARGE
	SD DUCT MOUNTED SMOKE DETECTOR WITH SAMPLING TUBES.		IG ISOLATED GROUND TYPE DEVICE
	FA DUCT MOUNTED SMOKE DETECTOR'S REMOTE ANNUNCIATOR LAMP AND TEST SWITCH-MOUNT ON CEILING, (U.N.O.)		KEC KITCHEN EQUIPMENT CONTRACTOR
	HDT HEAT DETECTOR - CEILING MOUNTED (U.N.O.)		MAX MAXIMUM
	CO CARBON MONOXIDE DETECTOR - CEILING MOUNTED.		MC MECHANICAL CONTRACTOR
	VF VISUAL FLASHER - MOUNT 80" AFF TO BOTTOM OF FLASHER, (NUMERALS INDICATE CANDELA).		MFR MANUFACTURER
	HORN OR SPEAKER - MOUNT 80" AFF. V DENOTES COMBINATION AUDIBLE/VISUAL APPLIANCE, (NUMERALS INDICATE CANDELA).		MH MOUNTING HEIGHT
	VF VISUAL FLASHER - CEILING MOUNTED; (NUMERALS INDICATE CANDELA). FINISH TO MATCH CEILING.		MIN MINIMUM
	HORN OR SPEAKER - CEILING MOUNTED; V DENOTES COMBINATION AUDIBLE/VISUAL APPLIANCE, (NUMERALS INDICATE CANDELA). FINISH TO MATCH CEILING.		NF NON-FUSED SWITCH
	CHIME - MOUNT 90" AFF, AS ABOVE.		NTS NOT TO SCALE
	EBB EXTERIOR FA BELL - MOUNT 90" AFF.		PC PLUMBING CONTRACTOR
	FMDH FIRE ALARM MAGNETIC DOOR HOLDER.		RT RAIN TIGHT
	IR INTERFACE RELAY FOR CODE REQUIRED ACTION, OR AS NOTED ON PLANS; SEE SPECIFICATION.		TP TAMPERS PROOF TYPE DEVICE
	CM CONTROL MODULE FOR CODE REQUIRED ACTION; SEE SPECIFICATION.		TCC TEMPERATURE CONTROL CONTRACTOR
	MM MONITOR MODULE FOR CODE REQUIRED ACTION, OR AS NOTED ON PLANS; SEE SPECIFICATION.		TYP TYPICAL
	STW SPRINKLER TAMPER SWITCH (FURNISHED BY FPC).		U.N.O. UNLESS NOTED OTHERWISE
	SFS SPRINKLER FLOW SWITCH (FURNISHED BY FPC).		UPS UNINTERRUPTIBLE POWER SUPPLY
	SPS SPRINKLER PRESSURE SWITCH (FURNISHED BY FPC).		WP WEATHERPROOF
		MISCELLANEOUS	
			MECHANICAL EQUIPMENT ITEM IDENTIFICATION PER EQUIPMENT SCHEDULE ON MECHANICAL DRAWINGS.
			MISCELLANEOUS EQUIPMENT NUMBER. SEE MISCELLANEOUS EQUIPMENT SCHEDULE.

GENERAL CONSTRUCTION NOTES:

- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR NECESSARY PERMITS, LICENSES, INSPECTIONS AND FEES FROM THE LOCAL AUTHORITIES. CONTRACTOR SHALL BE LICENSED BY LOCAL AND/OR STATE AUTHORITIES HAVING JURISDICTION.
- ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), NATIONAL ELECTRICAL CODE (NEC), INTERNATIONAL BUILDING CODE (IBC) AND OTHER APPLICABLE LOCAL, STATE AND NATIONAL CODES.
- ALL ELECTRICAL MATERIAL USED ON THIS PROJECT SHALL BE "UL" LISTED AND LABELED.
- THE ENTIRE ELECTRICAL SYSTEM AND ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND AS SHOWN ON THE DRAWINGS. PROVIDE A GROUND WIRE IN EACH POWER CONDUIT, SIZED PER THE NEC.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE SYSTEM PER CONTRACT DRAWINGS AND ENSURING THAT THE SYSTEM IS OPERATIONAL UPON JOB COMPLETION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES AND DISCIPLINES TO AVOID CONFLICTS AND INTERFERENCES. COORDINATE ALL WIRING DEVICE LOCATIONS AND ELEVATIONS INDICATED ON THE PLANS WITH THE OWNER, ARCHITECT AND FINAL FURNITURE/EQUIPMENT LAYOUTS. CONTRACTOR SHALL GUARANTEE ALL LABOR AND MATERIAL INSTALLED OR FURNISHED UNDER THIS CONTRACT FOR A PERIOD OF NOT LESS THAN ONE YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING.
- MAINTAIN AND VERIFY ELECTRICAL EQUIPMENT CLEARANCES AND WORKING SPACE PER NEC.
- PROVIDE ELECTRICAL SYSTEMS IDENTIFICATION AS INDICATED IN THE SPECIFICATIONS AND REQUIRED BY THE NEC OR NFPA.
- IF ANYTHING ON THE PLANS IS NOT IN COMPLIANCE WITH NATIONAL, STATE OR LOCAL CODES, THE ENGINEER SHALL BE ADVISED BY THE ELECTRICAL CONTRACTOR DURING THE BIDDING PROCESS. THERE ARE TO BE NO CHANGES TO THE CONTRACT DOCUMENTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS FOR NEW WORK, SAFETY, ETC., IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION, (I.E. OSHA, NEC, ETC.).
- THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR PHASING AND SCHEDULING OF THIS PROJECT. COORDINATE WITH OWNER'S FIELD REPRESENTATIVE.
- VERIFY ALL INDICATED DIMENSIONS BY FIELD MEASUREMENTS. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- PROVIDE ACCESS PANELS OR DOORS WHERE EQUIPMENT OR DEVICES REQUIRED TO BE ACCESSIBLE ARE CONCEALED BEHIND INACCESSIBLE SURFACES.
- PRIOR TO TURNING IN THIS CONTRACTOR SHALL REMOVE ALL RUBBISH, DIRT, DEBRIS AND STAINS ON THEIR WORK OR CAUSED BY THEIR WORK AND SHALL THOROUGHLY CLEAN ALL EQUIPMENT, FIXTURES, DEVICES, ETC. CONTRACTOR SHALL REPLACE, TOUCH-UP OR REFINISH THE FACTORY FINISH ON EQUIPMENT, FIXTURES, DEVICES, ETC. MARKED DURING SHIPMENT. INSTALLATION CONSTRUCTION.
- PANELBOARD CIRCUIT BREAKERS SHALL BE EQUIPPED WITH BOLT-ON TYPE BREAKERS, PHENOLIC NAME TAGS AND KEYS LOCK AND LATCH. EACH PANEL SHALL BE PROVIDED WITH TWO KEYS WITH ALL PANELS KEYS ALIKE. ALL CIRCUIT BREAKERS USED TO SWITCH LIGHT FIXTURES SHALL BE TYPED AND APPROVED FOR THE PURPOSE. ALL CIRCUIT BREAKERS SERVING HVAC EQUIPMENT SHALL BE HACR TYPE.
- ALL CIRCUITS INDICATED ON THESE DRAWINGS ARE 20A. IF CIRCUIT BREAKERS IN PANELS UNLESS NOTED OTHERWISE, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKERS. EACH PANELBOARD SHALL BE EQUIPPED WITH A COMPLETE AND ACCURATE TYPE WRITTEN CIRCUIT DIRECTORY.
- MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED. MINIMUM CONDUIT SIZE SHALL BE 1/2" UNLESS OTHERWISE NOTED. ALL CONDUIT IN SLABS OR EXTERIOR TO BUILDING SHALL BE MINIMUM 1". PROVIDE A NYLON/POLY PULL CORD IN ALL EMPTY CONDUITS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL COPPER CONDUCTORS TYPE THHN OR THWN FOR ALL INTERIOR BUILDING WIRE. FOR EXTERIOR FEEDERS AND BRANCH CIRCUITS PROVIDE ALL COPPER CONDUCTORS TYPE XHHW-2. VOLTAGE DROP MINIMUM WIRE SIZING (CIRCUIT) USE: 120V CIRCUIT OVER 100' SHALL BE #10 MINIMUM. 120V CIRCUIT OVER 175' SHALL BE #8 MINIMUM. 208V CIRCUIT OVER 200' SHALL BE #10 MINIMUM. MINIMUM WIRE SIZE FOR ANY 20A BRANCH CIRCUIT SHALL BE #12. FURTHERMORE, CONSIDER ALL DERATING OF CONDUCTORS AS REQUIRED IN ACCORDANCE WITH THE APPLICABLE NEC.
- ELECTRICAL CONTRACTOR SHALL HAVE THE OPTION OF GROUPING HOME RUNS IN ONE CONDUIT, PER THE REQUIREMENTS OF SECTION 310 OF THE NATIONAL ELECTRICAL CODE. NO MORE THAN FOUR (4) CIRCUITS SHALL BE ALLOWED TO BE GROUPED AND INSTALLED IN A SINGLE JUNCTION BOX. EC SHALL BE RESPONSIBLE FOR INCREASING CONDUCTOR SIZE AND DERATING. HOME RUNS WITH MORE THAN THREE CIRCUITS SHALL BE #10 AWG CONDUCTOR MINIMUM. PROVIDE DEDICATED NEUTRALS FOR EACH PHASE CONDUCTOR AND CONSIDER THEM AS A CURRENT CARRYING CONDUCTOR FOR DERATING. UPSIZE CONDUCTORS AS REQUIRED TO MAINTAIN MAXIMUM OF 2% VOLTAGE DROP FOR FEEDERS AND 3% FOR BRANCH CIRCUITS.
- ALL HOME RUNS SHALL BE IN LEAD CONDUIT. MC CABLE IS PERMITTED ABOVE CEILINGS FROM HOMERUNS TO FIXTURES AND WIRING DEVICES WITHIN WALLS AND FURRED CONDUITS. REFER TO ELECTRICAL SPECIFICATIONS FOR MORE DETAILED INFORMATION.
- ALL EMERGENCY SERVICE WIRING SHALL BE ENTIRELY INDEPENDENT AND BE IN SEPARATE CONDUIT, PULL BOXES, PANELS, ETC.
- ONLY PVC CONDUIT SHALL BE PERMITTED IN CONCRETE SLAB, EXCEPT FOR GRS SLLS.
- GREEN SAW CUTTING FLOOR IS REQUIRED. CONTRACTOR SHALL LIMIT DEPTH TO A MINIMUM. ROUTE NEW CONDUITS BELOW OR ABOVE EXISTING CONDUITS, WATER PIPES, ETC. CONDUIT SHALL HAVE A MINIMUM OF 1" OF CONCRETE COVER.
- ELECTRICAL CONTRACTOR SHALL ARRANGE WITH THE ELECTRIC, CATV AND TELEPHONE UTILITY COMPANIES FOR INCOMING SERVICE REQUIREMENTS AND INCLUDE ALL COSTS IN BASE BID.
- TELEPHONE SHALL INCLUDE AN UNDERGROUND SERVICE CONDUIT WITH FULL TAPE, 4"x8"x3/4" PAINTED FIRE RETARDANT PLYWOOD TERMINAL BOARD, 120V DOUBLE DUPLEX RECEPTACLE, ISOLATED TELECOM MAIN GROUND BUS AND #6 AWG COPPER GROUND CONDUCTOR TO BUILDING SERVICE GROUND.
- HEATING, VENTILATING, AIR CONDITIONING EQUIPMENT AND PLUMBING EQUIPMENT ALONG WITH ALL OTHER MISCELLANEOUS EQUIPMENT, MOTORS, AND KITCHEN EQUIPMENT SHALL BE POWERED AS CALLED OUT ON EQUIPMENT MANUFACTURER'S SCHEDULES UNLESS OTHERWISE NOTED. EC SHALL PROVIDE DISCONNECTING MEANS UNLESS SPECIFICALLY NOTED ON SCHEDULE.
- SUPPORT ALL CONDUITS FROM STRUCTURAL WALLS, SLABS, MEMBERS AND ROOF JOISTS. DO NOT SUPPORT CONDUITS FROM CEILING TIE WIRES, DUCTWORK, PIPING, ROOF DECK OR OTHER NON-STRUCTURAL MEMBERS.
- SUPPORTING OF CONDUITS FROM STRUCTURAL WALLS, SLABS, MEMBERS AND ROOF JOISTS. ALL 4" X 4" JUNCTION BOXES MAY BE SUPPORTED FROM FLOOR/ROOF JOISTS. ALL LARGER FEEDER CONDUITS AND/OR CLUSTER OR GROUPS OF BRANCH CIRCUIT CONDUITS SHALL BE SUPPORTED ON STEEL TRAPRAZE WITH STEEL CHANNEL ATTACHED TO STEEL JOIST/BEAMS WITH PROPER ATTACHMENTS. NO SUPPORT SHALL BE ATTACHED TO THE ROOF DECK (NO EXCEPTIONS). HANG CONDUIT FROM TOP CHORD OF BAR JOIST WHEN ATTACHING HOME RUNS TO JOIST.
- INTERIOR AND EXTERIOR LIGHT FIXTURES SHALL BE FURNISHED AND INSTALLED AS SHOWN ON THE DRAWINGS AND AS CALLED OUT IN THE LIGHTING FIXTURE SCHEDULE.
- ALL WIRING DEVICES SHALL BE FLUSH MOUNTED, UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL BE RUN WITHIN WALL CAVITIES, BELOW FLOORS AND ABOVE CEILINGS. SURFACE MOUNTED ELECTRICAL WORK SHALL NOT BE USED UNLESS SPECIFICALLY NOTED ON THE PLANS.
- ALL WALL AND CEILING FIXTURES AND DEVICES SHALL BE INDEPENDENTLY AND SECURELY MOUNTED SO THEY ARE NOT DEPENDENT ON CEILING FINISH FOR SUPPORT AND CAN NOT BE ROTATED OR DISPLACED. FIXTURES AND DEVICES MOUNTED IN SUSPENDED ACoustical CEILING TILE SHALL HAVE CHANNEL SUPPORTS ACROSS THE MAIN GRID RUNNERS OR GRID SUPPORTS SECURELY ANCHORED SO AS NOT TO CAUSE TILE TO SAG OR SO FIXTURE OR DEVICE CAN NOT BE LIFTED, ROTATED OR DISPLACED.
- ELECTRICAL LIGHT FIXTURES, MECHANICAL AIR DEVICES, FIRE SPRINKLERS, AND SMOKE DETECTORS IN CEILING. ALL SUBS NEED TO TAKE OTHER DISCIPLINES INTO CONSIDERATION BEFORE STARTING THEIR WORK. ALL ITEMS THAT NEED TO BE MOVED WILL BE MOVED AT THE SUB'S EXPENSE. FIRE SPRINKLERS SHALL BE LOCATED A MINIMUM OF 30 INCHES FROM ANY SURFACE MOUNTED LIGHT. SMOKE DETECTORS SHALL BE MOUNTED NO CLOSER THAN 3 FEET OF AN AIR DEVICE OR CEILING FAN. FIRE SPRINKLERS, LIGHT FIXTURES, SMOKE DETECTORS, AND AIR DEVICES ALL TO BE CENTERED DOWN THE HALLWAYS. ELECTRICAL, MECHANICAL, FIRE SPRINKLER, AND LOW VOLTAGE SUB CONTRACTOR SHALL MEET AND DECIDE BEFORE ANYONE STARTS, WHERE LOCATION OF THESE ITEMS WILL BE LOCATED. IF ITEM NEEDS TO BE MOVED, IT WILL BE AT THE EXPENSE OF THE SUB CONTRACTOR. COORDINATE WITH ARCHITECT'S REFLECTED CEILING PLAN.
- ALL OPENINGS IN FIRE AND/OR SMOKE RATED WALLS, FLOORS, AND PARTITIONS FOR CONDUITS SHALL BE SEALED WITH RED FIRE RESISTANT FOAM OR PUTTY TO MAINTAIN THE FIRE AND/OR SMOKE RATING. ALL OPENINGS IN FIRE RATED AND/OR SMOKE WALLS, FLOORS, AND PARTITIONS FOR CABLEING SHALL BE SEALED WITH WIREMOLD FLAMESTOPPER, STI EZ-PATH, HI-TI SPEED SLEEVE OR EQUIVALENT.
- RECEPTACLES/WIRING DEVICES SHALL NOT BE INSTALLED BACK-TO-BACK, INSTALL ON OPPOSITE SIDES OF WALL STUDS, WHERE DEVICES EXIST ALONG FIRE WALLS, COVER WITH UL LISTED PUTTY PACKS.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF LIGHT FIXTURES, RECEPTACLES, ETC. DIMENSIONAL LOCATION OF FIXTURES IN DRYWALL CEILING, ETC. LOCATION OF FLOOR BOXES AND RECEPTACLES, INCLUDING MOUNTING HEIGHTS.
- ALL RECEPTACLES AND COVER PLATE COLORS SHALL BE APPROVED BY ARCHITECT.
- OWNER RESERVES THE RIGHT TO RELOCATE ANY LIGHT FIXTURE, RECEPTACLE, ETC., BEFORE BEING INSTALLED 10'-0" FROM LOCATION AS SHOWN ON PLANS AT NO ADDITIONAL EXPENSE TO THE OWNER.
- OUTLETS IN OFFICES SHALL HAVE THEIR WALL LOCATIONS COORDINATED WITH FINAL FURNITURE LAYOUT. GROUP POWER AND COMMUNICATION OUTLETS SIDE BY SIDE AT SAME HEIGHT.
- NO CONDUIT OR CABLES SHALL BE INSTALLED EXPOSED IN FINISHED AREA. NON-CEILING AREA CONDUITS SHALL BE INSTALLED EXPOSED IN A NEAT WORKMAN LIKE MANNER AND BE PAINTED TO MATCH ADJACENT FINISHES.
- ALL MATERIALS, DEVICES, FIXTURES, ETC. THAT ARE REQUIRED FOR THIS PROJECT ARE TO BE FURNISHED AND INSTALLED BY THE EC UNLESS SPECIFICALLY INDICATED TO BE FURNISHED AND OR INSTALLED BY OTHERS.
- TELEPHONE, IT, AUDIO, VIDEO, SECURITY AND FIRE ALARM CABLE WIRING IN WALLS AND FLOOR SHALL BE ROUTED IN CONDUIT FROM DEVICE/JUNCTION BOX TO ABOVE AN ACCESSIBLE CEILING OR IN STRUCTURAL SPACE. 3/4" EMT MINIMUM. CONTRACTOR SHALL PROVIDE ALL BOXES, CONDUITS, CABLE TRAY, POWER, PATHWAYS AND PULL TAPES FOR LOW VOLTAGE SYSTEMS PROVIDED BY OWNERS CONTRACTOR. PROVIDE J-HOOKS AND CABLE TRAY SYSTEM. MAINTAIN 12" CLEARANCE ABOVE CEILING.
- PROVIDE ROUGH-IN BOXES, CONDUITS AND PULL TAPE FOR ALL MECHANICAL DEVICES, THERMOSTATS, CONTROLS, MONITORING, ETC AS REQUIRED BY OTHER TRADES.
- OWNER HAS CONTRACTED WITH A SEPARATE LOW VOLTAGE CONTRACTOR OUTSIDE OF THIS CONTRACT FOR VOICE/DATA, AV, BURGLAR ALARM, ACCESS CONTROL, VIDEO SURVEILLANCE & INTERCOM SYSTEMS.

ELECTRICAL SHEET LIST

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E4.1	ELECTRICAL EQUIPMENT PLAN



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ELECTRICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES

MISSOURI SOYBEAN INNOVATION CENTER
NEW OFFICE BUILDING
734 S. COUNTRY CLUB DRIVE
JEFFERSON CITY, MISSOURI

PROJECT NO. 1613
DATE: Sept. 12, 2018

E0.1

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