





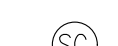

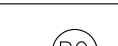

































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1		2		3		4		5			
GENERAL ELECTRICAL NOTES		ELECTRICAL SYMBOLS		ELECTRICAL EQUIPMENT POWER AND COMMUNICATIONS CABLING & TERMINATION REQUIREMENTS MATRIX						SECURITY SYSTEM SYMBOLS	
D	1. THE ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE CAREFULLY THE AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH THE DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THIS WORK. NO ADDITIONAL PAYMENTS WILL BE APPROVED REGARDING ADDITIONAL WORK REQUIRED BECAUSE OF EXISTING CONDITIONS. SUBMITTAL OF A BID WILL ACKNOWLEDGE THE ACCEPTANCE OF THIS RESPONSIBILITY.		20A-120/277V SINGLE POLE TOGGLE SWITCH, HUBBELL, TYPE CS1221	EQUIPMENT DESCRIPTION	MANUFACTURER	QTY.	LOCATION OF DEVICE(S)	POWER WIRING	COMMUNICATIONS CABLING	SYMBOL	DESCRIPTION
	2. WHERE STRUCTURAL OPENINGS ARE NOT AVAILABLE, THE CONTRACTOR SHALL CORE DRILL OR CUT AND CHASE WALLS AND FLOORS AS REQUIRED TO PERMIT PASSAGE OF CONDUITS AND RACEWAYS. AT COMPLETION OF INSTALLATIONS, CONTRACTOR SHALL FILL IN AND WATERPROOF OR FIREPROOF, TO RATING OF STRUCTURE PENETRATED. FILL ALL OPENINGS WITH MATERIALS AS DIRECTED BY THE ARCHITECT AND FINISH TO MATCH SURROUNDING AREAS. ALL OPENINGS REQUIRED SHALL BE APPROVED BY THE ARCHITECT PRIOR TO DEMOLITION OR CORE DRILLING.		20A-120/277V THREE WAY TOGGLE SWITCH, HUBBELL, TYPE CS1223	PRINTER / MULTIFUNCTION UNIT		1	OFFICE, BELOW COUNTER	SEE POWER PLANS	CATEGORY 6. REFER TO SPECIFICATIONS SECTION 17050.		PUBLIC VIEW MONITOR WITH CAMERA
	3. PROVIDE AN ACCURATE, TYPED PANELBOARD SCHEDULE AND INSTALL IT ON THE INSIDE COVER OF EACH PANEL.		20A-120V PIR (PASSIVE INFRARED) OCCUPANCY SENSOR/WALL SWITCH, MOUNTED AT 48" AFF, WATTSTOPPER CAT #WI-200. USE IN SMALL ROOMS 10'x10' MAX WITHOUT OBSTRUCTIONS.	DIGITAL AMPLIFIER	PASO-MUZAK	1	OFFICE, BELOW COUNTER	SEE POWER PLANS	NONE		NETWORK VIDEO RECORDER (NVR) AND SECURITY VIEWING MONITOR
	4. AFTER DEMOLITION IS COMPLETE, ANY RECESSED ABANDONED ELECTRICAL BACKBOX MAY BE REUSED FOR NEW DEVICE INSTALLATION AS APPLICATION PERMITS. PROVIDE A NEW COVERPLATE THAT MATCHES THE SIZE OF THE BACKBOX AND THE CONFIGURATION OF THE DEVICE(S) INSTALLED THEREIN. EXISTING DEVICES, WIRING, OR COVERPLATES WILL NOT BE PERMITTED TO BE REUSED.		CASH WRAP TIMER. REFER TO FLOORPLANS FOR DESCRIPTION.	MUSIC CONTROLLER	MUZAK	1	OFFICE, BELOW COUNTER	SEE POWER PLANS	CATEGORY 6. REFER TO SPECIFICATIONS SECTION 17050.		STANDARD CAMERA
	5. AFTER CONSTRUCTION IS COMPLETE, PROVIDE A NEW BLANK COVERPLATE OVER ALL UNUSED BACKBOXES ABANDONED IN PLACE.		20A-125 V DUPLEX RECEPTACLE, HUBBELL, TYPE CR5382 OR EQUIVALENT.	CPU (REQUIRES I.G.)		1	PHONE BOARD	SEE POWER PLANS	NONE		RELOCATABLE CAMERA
	6. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, OR SHAFTS SHALL BE SEALED IN ACCORDANCE WITH SPECIFICATIONS.		SAME AS  EXCEPT WITH INTEGRAL "GFI" PROTECTION, HUBBELL TYPE GFR5352	UPS (BATTERY BACKUP)		1	OFFICE, BELOW COUNTER & PHONE BOARD	SEE POWER PLANS	NONE		
	7. ROUTING OF ALL SURFACE MOUNTED/EXPOSED CONDUIT IN UNFINISHED AREAS (OR WHERE NOTED ON THE DRAWINGS) SHALL BE COORDINATED WITH, AND SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.		SAME AS  EXCEPT 2 DUPLEX RECEPTACLES MOUNTED IN 2-GANG BOX WITH SINGLE COVERPLATE	MODEM		1	PHONE BOARD	SEE POWER PLANS	CATEGORY 6. REFER TO SPECIFICATIONS SECTION 17050.		
	8. FIELD VERIFY EXACT LOCATION OF EQUIPMENT WITH ASSOCIATED EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. EXACT ELECTRICAL REQUIREMENTS SHALL BE VERIFIED IN THE FIELD WITH THE EQUIPMENT'S NAMEPLATE DATA. E.C. SHALL MAKE APPROPRIATE ADJUSTMENTS TO ASSOCIATED BREAKERS/DISCONNECT SWITCHES, BRANCH CIRCUIT WIRING, AND SIZE FUSES PER MANUFACTURERS RECOMMENDATIONS.		SAME AS  EXCEPT WITH WEATHERPROOF WHILE-IN-USE HIGH IMPACT POLYCARBONATE - NON-METALLIC HINGED COVER. HUBBELL #WP26MP (COVER ONLY). ORDER DEVICE SEPARATE.	CALCULATOR		1	OFFICE, BELOW COUNTER	SEE POWER PLANS	CATEGORY 6. REFER TO SPECIFICATIONS SECTION 17050.		
	9. ALL WIRING SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE A MINIMUM OF 3/4".		SAME AS  WITH ISOLATED GROUND, HUBBELL TYPE IGS362.	PHONE		1	VARIOUS	NONE	CATEGORY 6. REFER TO SPECIFICATIONS SECTION 17050.		
	10. CIRCUITS SHALL BE REARRANGED AS REQUIRED TO MAINTAIN THE MOST BALANCED LOADS ON EACH PHASE WITHIN EACH PANEL. E.C. SHALL PROVIDE A TYPED PANELBOARD SCHEDULE AND INSTALL IT ON INSIDE COVER OF EACH PANEL.		SAME AS  ONLY SURFACE MOUNTED.	BASE (RECHARGING STATION) HAND HELD UNIT		2	OFFICE, BELOW COUNTER	SEE POWER PLANS	CATEGORY 6. REFER TO SPECIFICATIONS SECTION 17050.		
	11. ANY DEVICES THAT ARE TO BE INSTALLED BACK-TO-BACK IN A COMMON WALL SHALL BE SEPARATED BY 8" MINIMUM TO MINIMIZE SOUND TRANSFER.		SPECIAL NEMA TYPE RECEPTACLE, CONFIGURATION AS INDICATED ON PLANS	BASE (RECHARGING STATION) HAND HELD UNIT		2	OFFICE, BELOW COUNTER	SEE POWER PLANS	NONE		
	12. DRAWINGS ARE DIAGRAMATIC AND INDICATE GENERAL ARRANGEMENT ONLY. COORDINATE INSTALLATION WITH OTHER TRADES TO VERIFY THE ACTUAL SPACE CONDITIONS, HEADROOM, ETC. THAT IS TO BE MAINTAINED. NO ADDITIONAL PAYMENT WILL BE APPROVED FOR FAILURE TO COMPLY.		4" SQ. x 2-1/8" DEEP BOX WITH PLASTER RING TO MATCH DEVICE FOR TELEPHONE AND/OR DATA OUTLET - STUB 3/4" CONDUIT INTO ACCESSIBLE CEILING SPACE. PROVIDE PLASTIC BUSHING ON EACH END OF CONDUIT. PROVIDE BLANK COVER IF NOT USED BY OWNER. W = DENOTES MOUNTED AT WALL PHONE HEIGHT - 46" A.F.F.	AUTO DEPOSIT UNIT	BRINKS	1	OFFICE, BELOW COUNTER	SEE POWER PLANS	CATEGORY 6. REFER TO SPECIFICATIONS SECTION 17050.		
	13. BRANCH CIRCUITS SERVING ISOLATED GROUND RECEPTACLES SHALL INCLUDE AN ADDITIONAL ISOLATED GROUNDING CONDUCTOR FROM THE RECEPTACLE AND WILL TERMINATE ON THE ISOLATED/INSULATED GROUND BAR IN PANEL SERVING THEM.		4" SQ. x 2-1/8" DEEP BOX WITH PLASTER RING TO MATCH DEVICE FOR TELEPHONE/DATA OUTLET - STUB 1" CONDUIT INTO ACCESSIBLE CEILING SPACE. PROVIDE PLASTIC BUSHING ON EACH END OF CONDUIT. PROVIDE BLANK COVER IF NOT USED BY OWNER. INSTALL DEVICE AT 18" AFF TO CENTERLINE OF DEVICE	PRINTER-AUTO DEPOSIT UNIT	BRINKS	1	OFFICE, BELOW COUNTER	SEE POWER PLANS	NONE		
	14. COORDINATE ALL LOCATIONS OF FLOOR BOXES, RECEPTACLES, AND OTHER DEVICE BACKBOXES WITH CASEWORK AND FURNITURE LAYOUTS. REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND FIELD VERIFY EXACT LOCATIONS AND CONDUIT ROUTING METHODS WITH ARCHITECT PRIOR TO ROUGH-IN.		STANDARD JUNCTION BOX SIZED PER N.E.C. AND SUPPORTED INDEPENDENT OF CONDUIT SYSTEM.	SWITCH		1	PHONE BOARD	SEE POWER PLANS	CATEGORY 6. REFER TO SPECIFICATIONS SECTION 17050.		
15. WIRE SIZE OF BRANCH CIRCUITS SHALL BE ADJUSTED TO COMPENSATE FOR VOLTAGE DROP BASED UPON ACTUAL CONDUIT ROUTING. E.C. SHALL MAINTAIN VOLTAGE DROP AS RECOMMENDED BY NEC (NOT TO EXCEED 3%). MINIMUM CIRCUIT SIZE SHALL BE 2#12, 1#12G.		HEAVY-DUTY 3 POLE FUSIBLE DISCONNECT SWITCH W/FUSETRONS SIZED AS NOTED OR AT 125% OF ACTUAL MOTOR NAMEPLATE RATING-SWITCH SIZE AS NOTED. "NF" DENOTES NON-FUSIBLE-MOUNTED AT EQUIPMENT. "WP" DENOTES WEATHERPROOF-MOUNTED AT EQUIPMENT. 00/000 = DISCONNECT SIZE / FUSE SIZE = MOUNTED AT EQUIPMENT.	EMPLOYEE TIMECLOCK		1	BACK ROOM WALL MOUNTED	SEE POWER PLANS	CATEGORY 6 STUBBED INTO WALL TO ALLOW CONNECTION FROM BEHIND, TIMECLOCK COVERS CONNECTION LOCATION. DATA TERMINATES AT PATCH PANEL ON PHONE BOARD.			
16. E.C. SHALL PROVIDE 3/4" MINIMUM EMPTY CONDUIT WITH PULLWIRE FOR CONTROL WIRING BETWEEN HVAC EQUIPMENT AND REMOTE LOCATED CONTROL PANELS. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.		MOTOR CONNECTION AS NOTED - CONNECT WITH FLEXIBLE OR SEALTIGHT CONDUIT	CASH WRAP (REQUIRES I.G. & GENERAL PURPOSE CIRCUIT)	LOZIER	1	AT SALES COUNTERS	SEE POWER PLANS	CATEGORY 6 FOR PHONE AND DATA OUTLET(S). REFER TO SPECIFICATIONS SECTION 17050.			
17. ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH A SEPARATE NEUTRAL CONDUCTOR. NEUTRALS SHALL NOT BE SHARED PER 2011 NEC 210.4 (B).		THERMOSTAT CONNECTION, THERMOSTAT PROVIDED BY OTHERS, WIRED & INSTALLED BY E.C.	CONVENIENCE RECEPTACLES		1	VARIOUS LOCATIONS, ABOVE GROMMETTED COUNTERS.	SEE POWER PLANS	NONE			
18. ALL AREAS THAT HAVE TOGGLE-TYPE LIGHT SWITCHES AND RECEPTACLES MOUNTED BESIDE DOOR OPENINGS AT 46" TO CENTERLINE MAY BE FURNISHED WITH A COMMON BACKBOX AND A COMMON FACEPLATE.		TIMECLOCK, TORK #W200L WITH CARRY OVER OR EQUAL	SYMBOL LEGEND GENERAL NOTES:								
19. E.C. SHALL COORDINATE WITH THE FOLLOWING PRIOR TO ROUGH-IN: PET SUPPLIES PLUS EQUIPMENT VENDORS AND LIGHTING FIXTURE NATIONAL ACCOUNT REPRESENTATIVE, MECHANICAL/PLUMBING CONTRACTOR AND MECHANICAL/PLUMBING DRAWINGS. E.C. SHALL PROVIDE ALL EQUIPMENT, DEVICES, WIRING AND CONDUITS AS SHOWN OR IMPLIED ON THE CONTRACT DOCUMENTS AND SPECIFICATIONS.		120/208V - 3 PHASE - 4 WIRE ELECTRICAL BRANCH CIRCUIT PANEL	1. ALL TOGGLE SWITCHES ARE TO BE FLUSH MOUNTED AT 48" A.F.F. TO CENTERLINE OF BOX AND BE PROVIDED WITH A THERMOPLASTIC COVER PLATE TO MATCH DEVICE UNLESS OTHERWISE SPECIFIED. COLOR OF DEVICE TO BE SELECTED BY ARCHITECT. COMPLY WITH CURRENT ADA REQUIREMENTS.								
20. E.C. SHALL CONNECT CORD AND PLUG COMPONENTS SHIPPED LOOSE WITH ANY EQUIPMENT FURNISHED BY OTHER TRADES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.	A-# 	HOMERUN ROUTED CONCEALED IN FINISHED AREAS AND ROUTED EXPOSED IN UNFINISHED AREAS. DESIGNATION INDICATES HOMERUN TO PANEL 'A' INDICATING CIRCUIT NUMBER(S) - ALL WIRING SHALL BE #12 WITH GROUND WIRE UON (INCREASE TO #10 FOR CIRCUITS OVER 75 FT.) - ALL HOMERUNS SHALL BE CONNECTED TO A 20 AMPERE, 1 POLE CIRCUIT BREAKER UON - QUANTITY OF CONDUCTORS AS NECESSARY TO ACCOMMODATE CIRCUITS AND CONTROL INDICATED. CONTRACTOR SHALL SIZE CONDUIT TO ACCOMMODATE QUANTITY OF WIRES WITHIN EACH HOMERUN -- 3/4" CONDUIT MINIMUM. ANY HOMERUN THAT SERVES AN ISOLATED GROUND RECEPTACLE SHALL BE PROVIDED AN ISOLATED GROUND (SIZED TO MATCH THE EQUIPMENT GROUND) IN ADDITION TO AN EQUIPMENT GROUND.	2. ALL RECEPTACLES, TELEPHONE, ETC. ARE TO BE FLUSH MOUNTED AT 18" A.F.F. TO CENTERLINE AND BE PROVIDED WITH A THERMOPLASTIC COVER PLATE TO MATCH THE DEVICE UNLESS OTHERWISE SPECIFIED. COLOR OF THE DEVICE TO BE SELECTED BY ARCHITECT. ALL BACK TO BACK DEVICES TO BE OFFSET HORIZONTALLY 6" MINIMUM. COMPLY WITH CURRENT ADA REQUIREMENTS.								
21. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS TO FULLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS PRIOR TO BID. NO ADDITIONAL CONSIDERATIONS WILL BE ALLOWED AFTER THE BID.		3. THE EXACT LOCATION AND MOUNTING HEIGHT OF ALL SWITCHES, OUTLETS, ETC. ARE TO BE CONFIRMED WITH ARCHITECTURAL ELEVATIONS AND OWNER PRIOR TO ROUGH-IN. IF LOCATIONS AND MOUNTING HEIGHT ARE NOT SHOWN, REQUEST LOCATIONS PRIOR TO ROUGH-IN. CONFIRM EQUIPMENT OUTLET LOCATIONS WITH EQUIPMENT REQUIREMENTS. COMPLY WITH ADA REQUIREMENTS.									
22. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SWITCH, FUSE, CONDUCTOR, CIRCUIT BREAKER SIZES, KAIC RATINGS, ETC., FOR CODE COMPLIANCE. NOTIFY ENGINEER OF ANY AND ALL DISCREPANCIES PRIOR TO BID.		4. SWITCHES AND DEVICES SHALL BE SPECIFICATION GRADE AND SHALL BE MANUFACTURED BY HUBBELL, LEVITON, OR P & S.									
23. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL INDICATED EQUIPMENT TO CODE COMPLIANT CLEARANCES. PROVIDE SUBMITTALS AS INDICATED IN SPECIFICATIONS TO PROPERLY COORDINATE PHYSICAL LOCATIONS OF NEW AND/OR EXISTING EQUIPMENT. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND COMPLETE CONTRACTUAL OBLIGATIONS.		5. NO ITEMS ARE TO BE SCALED OFF THE ELECTRICAL DRAWINGS. ALL DIMENSIONS SHOWN MUST BE VERIFIED PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS FOR CRITICAL ROUGH-IN DIMENSIONS.									
			CONDUIT ROUTED CONCEALED IN FINISHED AREAS ABOVE ACCESSIBLE CEILING OR IN WALL AND EXPOSED IN UNFINISHED AREAS. PROVIDE WIRING AND SIZE CONDUIT AS NOTED FOR HOMERUN SYMBOL ABOVE -- 3/4" CONDUIT MINIMUM.								
			CONDUIT RUN IN OR BELOW FLOOR SLABS - MAINTAIN 2" MINIMUM CONCRETE COVER ABOVE CONDUIT PROVIDE WIRING AND SIZE CONDUIT AS NOTED FOR HOMERUN SYMBOL ABOVE -- 3/4" CONDUIT MINIMUM.								
			CONTACTOR - AMPACITY AND POLES AS NOTED WITH NEMA 1 ENCLOSURE								
			PUSHBUTTON FOR DOOR BELL, EDWARDS #630L								
			DOOR CHIME MOUNTED AT 12" BELOW FINISHED CEILING, EDWARDS #C211								
			DOORBELL TRANSFORMER MOUNTED ABOVE CEILING OR ON WALL, EDWARDS #590								
		FIRE ALARM SPEAKER/VISUAL DEVICE - WALL MOUNTED PER ADA REQUIREMENTS.									
		FIRE ALARM VISUAL DEVICE - WALL MOUNTED.									
		FIRE ALARM SMOKE DETECTOR									
		FIRE ALARM MANUAL PULL STATION - MOUNTED 48" A.F.F.									
A		FAAP									
		FACP									
		FIRE ALARM ANNUNCIATOR PANEL, FLUSH MOUNTED									
		FIRE ALARM CONTROL PANEL									
01 [NOT USED]		SCALE: 1/4" = 1'-0"		02 [NOT USED]				03 [NOT USED]			

Date  
05/28/2021  
08/06/2021

Issue  
Bid Permit Set  
Addendum A



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Electrical Schedules,  
General Notes and Elevations