

A	AMPERE	MC	MICROPHONE
AC	ALTERNATING CURRENT	MICRO	MICROWAVE
AFF	ABOVE FINISHED FLOOR	MLO	MAIN LUG ONLY MOUNT
AFG	ABOVE FINISHED GRADE	MT	MOUNT
AHU	AIR HANDLING UNIT	MTS	MANUAL TRANSFER SWITCH
AIC	AMPERES INTERRUPTING CAPACITY	MCP	MOTOR CONTROL PANEL
ATS	AUTOMATIC TRANSFER SWITCH	MH	METAL HALIDE
AWG	AMERICAN WIRE GAUGE	MDP	MAIN DISTRIBUTION PANEL
BAS	BUILDING AUTOMATION SYSTEM	MIN	MINIMUM
BKBD	BACKBOARD	N	NEUTRAL
C	CONDUIT	NC	NORMALLY CLOSED
CAT	CATALOG, CATEGORY	NEC	NATIONAL ELECTRICAL CODE
CATV	CABLE TV	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CB	CIRCUIT BREAKER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CCTV	CLOSED CIRCUIT TELEVISION	NIC	NOT IN CONTRACT
CM	CIRCULAR MILS	NF	NON-FUSED
COMM	COMMUNICATIONS	NO	NORMALLY OPEN
CU	MECH CONDENSING UNIT	NO., #	NUMBER
CU	COPPER	NTS	NOT TO SCALE
CUH	CABINET UNIT HEATER	OC	ON CENTER
DC	DIRECT CURRENT	OCC	OCCUPANCY
DDC	DIGITAL DIRECT CONTROL	OH	OVERHEAD
DN	DOWN	P	POLE
DW	DISHWASHER	PA	PUBLIC ADDRESS
DWG	DRAWING	PH	PHASE
EF	EXHAUST FAN	PIR	PASSIVE INFRARED
ELEV	ELEVATOR	PNL	PANELBOARD
EMT	ELECTRICAL METALLIC TUBING	P/O	PART OF
EP	EXPLOSION PROOF	PV	PHOTOVOLTAIC
ERU	ENERGY RECOVERY UNIT	PVC	POLY-VINYL CHLORIDE
EWC	ELECTRIC WATER COOLER	REC	RECEPTACLE
FACP	FIRE ALARM CONTROL PANEL	REF	REFRIGERATOR RECEPT
FB	FLOOR BOX	RF	RETURN FAN
FLA	FULL LOAD AMPS	RGS	RIGID GALVANIZED STEEL
FWE	FURNISHED WITH EQUIPMENT	RM	ROOM
G, GND	GROUND	RMC	RIGID METAL CONDUIT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	RTU	ROOFTOP UNIT
GFP	GROUND FAULT PROTECTION	REF	REFRIGERATOR
HID	HIGH INTENSITY DISCHARGE	SF	SUPPLY FAN
HOA	HAND-OFF-AUTO SELECTOR SWITCH	SPDT	SINGLE POLE, DOUBLE THROW
HP	HORSEPOWER	SQ	SQUARE
HVAC	HEATING, VENTILATION AND COOLING UNIT	TEL	TELEPHONE
IDS	INTRUSION DETECTION SYSTEM	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
IG	ISOLATED GROUND	TYP	TYPICAL
IMC	INTERMEDIATE METAL CONDUIT	UF	UNDER FLOOR
IR	INFRARED	UG	UNDERGROUND
K	KILO	UH	UNIT HEATER
KCMIL	KILO CIRCULAR MILS	UL	UNDERWRITER'S LABORATORY
KW	KILOWATT	UNO	UNLESS NOTED OTHERWISE
KVA	KILO VOLT-AMPS	UPS	UNINTERRUPTIBLE POWER SUPPLY
LAN	LOCAL AREA NETWORK	V	VOLTS
LC	LIGHTING CONTACTOR	VFD	VARIABLE FREQUENCY DRIVE
LF	LINEAR FEET	W	WATT
LC	LOADCENTER	WP	WEATHERPROOF
LCP	LIGHTING CONTROL PANEL	WG	WIREGUARD
LED	LIGHT EMITTING DIODE	XFMR	TRANSFORMER
LTG	LIGHTING	(E)	EXISTING ITEM TO REMAIN
LTS	LIGHTS	(R)	REMOVE ITEM AND DISPOSE OF PROPERLY
MAX	MAXIMUM	(ER)	RELOCATED ITEM AT NEW LOCATION
MCB	MAIN CIRCUIT BREAKER	(RL)	REMOVE AND RELOCATE
MECH	MECHANICAL		
MH	MOUNTING HEIGHT		

F3		LUMINAIRES
NO SCALE		
	20A, 125V, 2P, 3W, NEMA 5-20R	
	DUPLICATE RECEPTACLE CONSISTING OF (1) NEMA 5-20R RECEPTACLE AND (2) USB PORTS	
	GFCI DUPLEX RECEPTACLE, MOUNT 44" AFF UNO	
	GFCI DOUBLE DUPLEX RECEPTACLE, MOUNT 44" AFF UNO	
	GFCI RECEPTACLE WITH WEATHERPROOF COVER	
	GFCI RECEPTACLE IN WP ENCLOSURE ON ROOF	
	MULTI-OUTLET STRIP, PROVIDE OUTLETS 24" OC UNO, MOUNT 48" AFF UNO	
NOTES:		
1. MOUNT RECEPTACLES WITH CENTERLINE 18" AFF UNO		
2. MOUNT EXTERIOR RECEPTACLES WITH CENTERLINE 24" AFF UNO		

F3		RECEPTACLES
NO SCALE		
	CLOCK	
	LARGE CLOCK	
	SPEAKER - CEILING MOUNTED	
	SPEAKER - WALL MOUNTED	
	SPEAKER - HIGH OUTPUT - CEILING MOUNTED	
	LARGE SPEAKER	
	INTERCOM	
NOTE: DIVISION 16 SHALL WIRE AND CONNECT 120 VOLT WIRING FOR THE CLOCKS IN EACH AREA TO CIRCUIT INDICATED. PROVIDE (2)#12+(1)#12G. PROVIDE TRANSFORMERS AS REQUIRED. LOW VOLTAGE AND SYSTEM WIRING BY DIVISION 17.		

C3		CLOCKS AND SPEAKERS (PA)
NO SCALE		
1. BRANCH CIRCUIT WIRING NOT SHOWN. WIRE AND CONNECT ELECTRICAL ITEMS TO CIRCUITS INDICATED.		
2. DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ELECTRICAL CONDUIT, WIRING, DEVICES, BOXES, FIXTURES, EQUIPMENT, ETC. AS INDICATED AND AS REQUIRED TO FACILITATE THE WORK OF DIVISION 26 AND OTHER DIVISIONS. THESE DRAWINGS ARE NOT INTENDED TO INDICATE ALL ITEMS TO BE REMOVED.		
3. DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR EXACT DIMENSIONS.		
4. THE LOCATION OF EQUIPMENT, OUTLETS, ETC. AS GIVEN ON THE DRAWINGS IS APPROXIMATE. IT SHALL BE UNDERSTOOD THAT THESE LOCATIONS ARE SUBJECT TO MODIFICATION AS MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME OF INSTALLATION IN ORDER TO MEET PROJECT REQUIREMENTS. SUCH CHANGES SHALL BE MADE WITHOUT EXTRA CHARGE.		
5. COORDINATE ALL WORK WITH OTHER DIVISIONS AND THE OWNER.		
6. VERIFY EXACT POWER REQUIREMENTS OF EQUIPMENT PRIOR TO ROUGH IN		
7. POWER WIRING FOR EQUIPMENT & CONTROL SHALL BE PERFORMED BY DIVISION 26. ALL CONTROL WIRING OPERATING AT LESS THAN 120 VOLTS FOR MECHANICAL EQUIPMENT SHALL BE BY DIVISION 23.		
8. NO WIRING THAT BECOMES UNUSED AS PART OF THIS PROJECT SHALL BE ABANDONED IN PLACE.		

A3		GENERAL NOTES
NO SCALE		
1. BRANCH CIRCUIT WIRING NOT SHOWN. WIRE AND CONNECT ELECTRICAL ITEMS TO CIRCUITS INDICATED.		
2. DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ELECTRICAL CONDUIT, WIRING, DEVICES, BOXES, FIXTURES, EQUIPMENT, ETC. AS INDICATED AND AS REQUIRED TO FACILITATE THE WORK OF DIVISION 26 AND OTHER DIVISIONS. THESE DRAWINGS ARE NOT INTENDED TO INDICATE ALL ITEMS TO BE REMOVED.		
3. DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR EXACT DIMENSIONS.		
4. THE LOCATION OF EQUIPMENT, OUTLETS, ETC. AS GIVEN ON THE DRAWINGS IS APPROXIMATE. IT SHALL BE UNDERSTOOD THAT THESE LOCATIONS ARE SUBJECT TO MODIFICATION AS MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME OF INSTALLATION IN ORDER TO MEET PROJECT REQUIREMENTS. SUCH CHANGES SHALL BE MADE WITHOUT EXTRA CHARGE.		
5. COORDINATE ALL WORK WITH OTHER DIVISIONS AND THE OWNER.		
6. VERIFY EXACT POWER REQUIREMENTS OF EQUIPMENT PRIOR TO ROUGH IN		
7. POWER WIRING FOR EQUIPMENT & CONTROL SHALL BE PERFORMED BY DIVISION 26. ALL CONTROL WIRING OPERATING AT LESS THAN 120 VOLTS FOR MECHANICAL EQUIPMENT SHALL BE BY DIVISION 23.		
8. NO WIRING THAT BECOMES UNUSED AS PART OF THIS PROJECT SHALL BE ABANDONED IN PLACE.		

F5		EMERGENCY LUMINAIRES
NO SCALE		
	EMERGENCY LIGHT FIXTURE LOCATION, LETTER INDICATES SWITCHING	
	HATCHING INDICATES FIXTURE CONNECTED TO UL 924 LISTED EMERGENCY LIGHTING INVERTER	
	EMER BATTERY UNIT WITH NO HEADS, MT 7'-6" AFF BP# INDICATES BATTERY UNIT DESIGNATION, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.	
	EMER BATTERY UNIT WITH INTEGRAL HEADS, MT 7'-6" AFF BP# INDICATES BATTERY UNIT DESIGNATION, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.	
	SINGLE REMOTE EMERGENCY LIGHT HEAD, MOUNT 7'-6" AFF BP# INDICATES BATTERY UNIT CONNECTED TO	
	DOUBLE REMOTE EMERGENCY LIGHT HEAD, MOUNT 7'-6" AFF BP# INDICATES BATTERY UNIT CONNECTED TO	
	EXIT SIGN, CEILING MOUNTED, SHADING INDICATES FACE(S) ARROWHEAD INDICATES CHEVRON(S) REQUIRED, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.	
	EXIT SIGN, WALL MOUNTED, SHADING INDICATES FACE(S) MOUNT AT 7'-6" AFF OR OVER DOOR, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.	

F5		SINGLE RECEPTACLES
NO SCALE		
	20A, 125V, 2P, 3W, NEMA 5-20R	
	20A, 125V, 2P, 3W, NEMA L5-20R (TWISTLOCK)	
	30A DRYER RECEPTACLE - 125/250V, 3P, 4W, GROUNDING, NEMA 14-30R, (3)#10+(1)#10G TO 30A, 2P CIRCUIT BREAKER	
	30A, 250V, 2P, 3W, NEMA 6-30R	
	50A RANGE RECEPTACLE - 125/250V, 3P, 4W, GROUNDING, NEMA 14-50R, (3)#6+(1)#10 TO 50A, 2P CIRCUIT BREAKER	
NOTE:		
PROVIDE MATCHING CORD AND PLUG FOR SINGLE RECEPTACLES		

C5		LOCAL SOUND SYSTEM
NO SCALE		
	LOCAL SOUND EQUIPMENT	
	MICROPHONE JACK OUTLET	
	LOCAL SOUND SYSTEM LARGE SPEAKER	
	LOCAL SOUND SYSTEM SPEAKER	
	TELEPHONE WALL OUTLET, 44" AFF UNO	
	TELEPHONE OUTLET FOR ELEVATOR CONNECTION	
	TELEPHONE OUTLET, 18" AFF UNO	
	TEL/DATA OUTLET, 18" AFF UNO	
	DATA OUTLET, 18" AFF UNO	
	WIRELESS ACCESS POINT CEILING MOUNTED	
	WIRELESS ACCESS POINT WALL MOUNTED	

A5		TECHNOLOGY
NO SCALE		
TECHNOLOGY GENERAL NOTES		
1. DIVISION 26 SHALL PROVIDE BOXES AND CONDUITS WITH PULL STRINGS AS INDICATED. CABLING AND TERMINATIONS SHALL BE BY OWNER.		
2. FOR EACH TECHNOLOGY OUTLET, PROVIDE A 2-GANG BOX WITH 1-GANG ADAPTER. PROVIDE A 1" CONDUIT FROM EACH OUTLET BOX TO 6" ABOVE THE NEAREST ACCESSIBLE CEILING THAT IS CONTIGUOUS TO A J-HOOK OR CABLE TRAY PATHWAY.		

D7		FIRE ALARM SYSTEM
NO SCALE		
	FIRE ALARM CONTROL PANEL, MOUNT WITH TOP OF PANEL NOT MORE THAN 72" AFF	
	FIRE ALARM ANNUNCIATOR, MOUNT WITH TOP OF PANEL NOT MORE THAN 72" AFF	
	SMOKE DETECTOR	
	SMOKE DETECTOR, "E" INDICATES CONNECTION FOR ELEVATOR RECALL	
	SINGLE STATION SMOKE DETECTOR WITH AUDIBLE INDICATING APPLIANCE, MOUNT ON WALL	
	SINGLE STATION SMOKE DETECTOR WITH AUDIBLE/VISUAL INDICATING APPLIANCE	
	HEAT DETECTOR	
	HEAT DETECTOR, "E" INDICATES CONNECTION FOR ELEVATOR RECALL	
	DUCT SMOKE DETECTOR	
	GAS VALVE	
	FLAME DETECTOR, ARROW INDICATES DIRECTION OF COVERAGE	
	REMOTE TEST/INDICATOR FOR DUCT SMOKES, MOUNT ON CEILING BENEATH UNIT, OR WALL MOUNT WHERE INDICATED ON PLANS	
	MANUAL PULL STATION, MOUNT 48" AFF	
	HORN/STROBE NOTIFICATION APPLIANCE, CANDELA AS NOTED ON PLANS	
	SPEAKER/STROBE NOTIFICATION APPLIANCE, CANDELA AS NOTED ON PLANS	
	STROBE ONLY NOTIFICATION APPLIANCE, CANDELA AS NOTED ON PLANS	
	STROBE NOTIFICATION APPLIANCE, 15 CANDELA, 120V, CONNECT TO OPERATE UPON ACTIVATION OF ROOM SMOKE DETECTOR	
	MINI HORN NOTIFICATION APPLIANCE	
	HORN/STROBE WITH PULL STATION DIRECTLY BELOW	
	MAGNETIC DOOR HOLD OPEN DEVICE	
	TRANSFORMER	
	SPRINKLER SYSTEM WATER FLOW SWITCH, PROVIDED UNDER DIVISION 23, WIRED UNDER DIVISION 26	
	SPRINKLER SYSTEM TAMPER SWITCH, PROVIDED UNDER DIVISION 23, WIRED UNDER DIVISION 26	
	SPRINKLER SYSTEM CHECK VALVE PRESSURE SWITCH, FURNISHED AND INSTALLED UNDER DIVISION 23, WIRED UNDER DIVISION 26	
	SPRINKLER SYSTEM EXCESS PRESSURE PUMP, FURNISHED AND INSTALLED UNDER DIVISION 23, WIRED UNDER DIVISION 26	
	SMOKE DAMPER	
	FIRE AND SMOKE DAMPER	
	CARBON MONOXIDE DETECTOR	

A7		LIGHT SWITCHES
NO SCALE		
	LIGHT SWITCH, 20A, 125/277V	
	THREE-WAY LIGHT SWITCH	
	FOUR-WAY LIGHT SWITCH	
	TWO-POLE SWITCH	
	KEY OPERATED SWITCH	
	MOTOR RATED SWITCH	
	SINGLE POLE SWITCH WITH RED PILOT LIGHT - RED LIGHT SHALL GLOW WHEN CIRCUIT IS ENERGIZED	
	MULTI-GANGED SWITCHES, GANG UNDER ONE PLATE, LETTER INDICATES SWITCHING	
	OCCUPANCY SENSOR SWITCH, WALL MOUNTED	
	2-BUTTON OCCUPANCY SENSOR SWITCH	
	OCCUPANCY SENSOR, CEILING MOUNTED	
	OCCUPANCY SENSOR, WALL MOUNTED	
	DIMMER SWITCH - COORDINATE DIMMING TECHNOLOGY WITH LOAD TO BE DIMMED	
	HANDICAP SWITCHES FOR HOOD LIGHT AND FAN	
	TIMER SWITCH, 60 MINUTES	
	LOW VOLTAGE LIGHT SWITCH, MOMENTARY CONTACT	
	LIGHTING TIME CLOCK	
	LIGHTING CONTACTOR	
	LIGHTING CONTROL PANEL	
	PHOTOCCELL	
NOTES:		
1. MOUNT LIGHT SWITCHES WITH CENTERLINE 48" AFF, UNO		
2. LOWER CASE LETTER AT SWITCH INDICATES SWITCHING		

D9		POWER DISTRIBUTION
NO SCALE		
	PANELBOARD - SURFACE MOUNTED	
	PANELBOARD - FLUSH MOUNTED	
	FUSED DISCONNECT SWITCH	
	NON-FUSED DISCONNECT SWITCH	
	MOTOR STARTER - NUMBER INDICATES NEMA SIZE	
	COMBINATION MOTOR STARTER/FUSED DISCONNECT	
	MOTOR OR FAN	
	METER AND CABINET	
	JUNCTION BOX - CEILING MOUNTED	
	JUNCTION BOX - WALL MOUNTED	
	JUNCTION BOX - FLOOR MOUNTED	
	JUNCTION BOX - PEDESTAL MOUNTED	
	TRANSFORMER - NUMBER INDICATES DESIGNATION SEE TRANSFORMER SCHEDULE	
	VARIABLE FREQUENCY DRIVE	
	TRANSIENT VOLTAGE SURGE SUPPRESSOR	
	EMERGENCY SHUTOFF SWITCH - WALL MOUNTED 48" TO CENTERLINE - PROVIDE TAMPER-PROOF COVER	
	CONDUIT TURNING UP	
	CONDUIT TURNING DOWN	
	WIRING UNDERGROUND OR UNDERSLAB	
	HOMERUN - (2)#12+(1)#12G UNO (EXCEPT LIGHTING CIRCUITS: (1)#12+(1)#10N+(1)#12G UNO)	
	SINGLE-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT	
	3-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT	
	FLEXIBLE CONNECTION	
	GROUNDING SYSTEM	
	POWER POLE	
	PUSHBUTTON	
	DOORBELL CHIME	
	SYSTEMS FURNITURE WHIP	
	MOTORIZED DOOR OPERATOR AND PUSH PADDLE - FURNISHED BY DIVISION 08, WIRED BY DIVISION 26	
	ENCLOSED CIRCUIT BREAKER	

A9		FLOOR AND CEILING DEVICES
NO SCALE		
	DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W, NEMA 5-20R, MOUNT IN FLUSH FLOOR BOX	
	DOUBLE DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W, NEMA 5-20R, MOUNT IN FLUSH FLOOR BOX	
	JUNCTION BOX, MOUNT IN FLUSH FLOOR BOX	
	TEL/DATA OUTLET, MOUNT IN FLUSH FLOOR BOX	
	EMPTY FLUSH FLOOR BOX	
	DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W, NEMA 5-20R MOUNTED IN FIRE RATED POKE-THROUGH ASSEMBLY	
	TEL/DATA OUTLET, MOUNT IN FIRE RATED POKE-THROUGH ASSEMBLY	
	DUPLEX RECEPTACLE, PEDESTAL MOUNTED	
	SINGLE RECEPTACLE, PEDESTAL MOUNTED	
	JUNCTION BOX, PEDESTAL MOUNTED	
	DUPLEX RECEPTACLE, FLUSH MOUNTED IN CEILING	
	DOUBLE DUPLEX RECEPTACLE, FLUSH MOUNTED IN CEILING	
	DUPLEX GFCI RECEPTACLE, FLUSH MOUNTED IN CEILING	
	DOUBLE DUPLEX GFCI RECEPTACLE, FLUSH MOUNTED IN CEILING	
	DATA OUTLET, FLUSH MOUNTED IN CEILING, SEE SCHEDULE FOR TYPE	
	JUNCTION BOX, FLUSH MOUNTED IN CEILING	
	OVERHEAD RECEPTACLE DROP, DUPLEX	
	OVERHEAD RECEPTACLE DROP, DOUBLE DUPLEX	
	OVERHEAD RECEPTACLE DROP, GFCI	

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Drawn By:	DLL
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Project Mgr:	WPF
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ELECTRICAL LEGENDS, ABBREVIATIONS AND GENERAL NOTES	
1	2
3	4
5	6
7	8
9	10

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