

	1	2	3	4	5	6	7	8	9	10		
	ABBREVIATIONS					GENERAL NOTES			NON-STRUCTURAL ELECTRICAL COMPONENT NOTES			
	A	AMPERE	MC	MAIN CROSS CONNECT; METAL CLAD (CABLE)			1. PERFORM WORK IN ACCORDANCE WITH APPLICABLE NATIONAL AND STATE CODES AS AMENDED LOCALLY AND ENFORCED BY THE AHJ.			1. THE FOLLOWING ITEMS ARE TAKEN DIRECTLY FROM THE 2009 INTERNATIONAL BUILDING CODE AND FROM THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD 7-05. THE CONTRACTOR SHALL REFER TO THE ABOVE FOR ADDITIONAL INFORMATION, EXCEPTIONS, AND FURTHER DESCRIPTIONS. THE CONTRACTOR SHALL ADHERE TO REQUIREMENTS AND AS SUCH, SHALL BE INCLUDED WITHIN BID. ALSO REFER TO SPECIFICATIONS.		
	AC	AIR CONDITIONING; ALTERNATING CURRENT	MCC	MOTOR CONTROL CENTER			2. OBTAIN AND PAY FOR PERMITS REQUIRED FOR INSTALLATION OF WORK. ARRANGE AND SCHEDULE REQUIRED INSPECTIONS.			2. 2009 IBC, 1613.1, SCOPE: ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND NON-STRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE 7-05, EXCLUDING CHAPTER 14 AND APPENDIX 11A.		
	AF	AMP FRAME	MCB	MAIN CIRCUIT BREAKER			3. COORDINATE WITH UTILITY COMPANIES FURNISHING SERVICES TO PROJECT. INSTALLATION OF UTILITY SERVICES SHALL BE IN ACCORDANCE WITH UTILITY REQUIREMENTS. VERIFY APPLICABLE INSTALLATION STANDARDS AND REQUIREMENTS. PROVIDE AND SUBMIT ELECTRICAL DRAWINGS TO UTILITY FOR APPROVAL PRIOR TO ROUGH-IN AND PRIOR TO ORDERING EQUIPMENT.			3. 2009 IBC, 1706.1, CONTRACTOR RESPONSIBILITY: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS AND SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE THE FOLLOWING:		
	AFF	ABOVE FINISHED FLOOR	MDF	MAIN DISTRIBUTION FRAME			4. DRAWINGS ARE DIAGRAMMATIC IN NATURE. PROVIDE COMPONENTS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM WHETHER OR NOT SPECIFICALLY SHOWN ON THE DRAWINGS.			A. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS;		
	AG	ABOVE GRADE	MDP	MAIN DISTRIBUTION PANEL			5. DEVICE LOCATIONS ARE APPROXIMATE. COORDINATE DEVICE LOCATIONS AND ELEVATIONS WITH APPROPRIATE DOCUMENTS INCLUDING CASEWORK SHOP DRAWINGS AND ARCHITECT'S INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.			B. ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL;		
	AHJ	AUTHORITIES HAVING JURISDICTION	MFR	MANUFACTURER			6. COORDINATE ELECTRICAL WORK WITH THAT OF OTHER TRADES. REFER TO MECHANICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, AND LANDSCAPE DRAWINGS AND SPECIFICATIONS. COORDINATION SHALL OCCUR PRIOR TO FABRICATION, PURCHASE, AND INSTALLATION OF WORK.			C. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS;		
	AHU	AIR HANDLING UNIT	MH	MANHOLE			7. COORDINATE LOCATION OF LIGHT FIXTURES AND CEILING MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS.			D. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.		
	AIC	AMPERE INTERRUPTING CURRENT	MIN	MINIMUM			8. PROVIDE RATED ENCLOSURES AROUND ALL LIGHT FIXTURES PENETRATING RATED CEILINGS. COORDINATE WITH ARCHITECTURAL.			7. DIVISION 26, 27 & 28 RESPONSIBILITIES:		
	AL	ALUMINUM	MLO	MAIN LUGS ONLY			9. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION/SEISMIC JOINTS. PROVIDE RACEWAY EXPANSION/SEISMIC JOINTS FOR RACEWAYS CROSSING BUILDING EXPANSION/SEISMIC JOINTS.			A. HANGERS AND SEISMIC BRACING FOR ELECTRICAL SYSTEMS SHALL BE DESIGNED AND SPECIFIED BY DIVISION 26, 27 & 28. DIVISION 26, 27 & 28 SHALL REFER TO THE ELECTRICAL DRAWINGS FOR LOCATIONS OF EQUIPMENT AND ELECTRICAL SYSTEMS AS STRUCTURAL DRAWINGS DO NOT SHOW THE LOCATIONS OF ELECTRICAL EQUIPMENT, RACEWAYS, AND OTHER COMPONENTS.		
	ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MM	MULTIMODE			10. DEMOLISH EXISTING SYSTEMS AS INDICATED ON PLANS OR AS REQUIRED FOR INSTALLATION OF NEW WORK. MATERIAL SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF OFF SITE UNLESS OTHERWISE DIRECTED. RETURN ITEMS TO OWNER IN EXISTING CONDITION WHEN DIRECTED BY OWNER.			B. DIVISION 26, 27 & 28 SHALL COORDINATE THE SUPPORT SYSTEMS AND DESIGN LOADS FOR HUNG RACEWAYS AND OTHER ELECTRICAL SYSTEMS (INCLUDING COMBINED MULTIPLE RACEWAY RUNS) WITH THE GENERAL CONTRACTOR AND THE STEEL AND WOOD JOIST MANUFACTURERS IN ADDITION TO OTHER TRADES THAT MAY BE IMPACTED.		
	AS	AMP SWITCH	MPOE	MAIN POINT OF ENTRY			11. COMPLETION OF WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE PROJECT SCHEDULE. SCHEDULE INSTALLATION WITH OTHER TRADES TO ENSURE PROJECT MILESTONES ARE MET.					
	AT	AMP TRIP	MPOP	MAIN POINT OF PRESENCE								
	ATS	AUTOMATIC TRANSFER SWITCH	MTD	MOUNTED								
	ATM	ASYNCHRONOUS TRANSFER MODE	MTS	MANUAL TRANSFER SWITCH								
	AV	AUDIO VISUAL	N	NEUTRAL								
	AWG	AMERICAN WIRE GAUGE	(N)	NEW								
			NAC	NOTIFICATION APPLIANCE CIRCUIT								
	BAS	BUILDING AUTOMATION SYSTEM	NEC	NATIONAL ELECTRICAL CODE								
	BATT	BATTERIES	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION								
	BKBD	BACKBOARD	NF	NON FUSED								
	BIL	BASIC IMPULSE INSULATION LEVEL	NIC	NOT IN CONTRACT								
	BKR	BREAKER	NL	NIGHT LIGHT								
	BLDG	BUILDING	OS	OCCUPANCY SENSOR								
			OFC	OPTICAL FIBER CABLE								
	C	CONDUIT; DEGREES CELSIUS	OHL	OVERHEAD LINE								
	CAB	CABINET	OL	OVERLOAD								
	CAT	CATEGORY	OSP	OUTSIDE PLANT								
	CATV	COMMUNITY ANTENNA TELEVISION	P	POLE								
	CB	CIRCUIT BREAKER	PBX	PRIVATE BRANCH EXCHANGE								
			PF	POWER FACTOR								
	CCTV	CLOSED CIRCUIT TELEVISION	PH	PHASE								
	CLG	CEILING	PIR	PASSIVE INFRARED								
	CO	CONDUIT ONLY	PIV	POST INDICATING VALVE								
	CT	CURRENT TRANSFORMER	PNL	PANEL								
	CU	COPPER	PP	PATCH PANEL								
			PT	POTENTIAL TRANSFORMER								
	DDC	DIRECT DIGITAL CONTROL	PVC	POLYVINYL CHLORIDE								
	DEMARC	DEMARICATION POINT	RCP	REFLECTED CEILING PLAN								
	DISC	DISCONNECT	REC	RECEPTACLE								
	DIST	DISTRIBUTION	REF	REFER TO								
	DSL	DIGITAL SUBSCRIBER LINE	REV	REVISION								
	DWG	DRAWING	RM	ROOM								
			RU	RACK UNIT								
	(E)	EXISTING	SHT	SHEET								
	EA	EACH	SLC	SIGNALING LINE CIRCUIT								
	EF	EXHAUST FAN	SM	SINGLEMODE								
	EIA	ELECTRONIC INDUSTRIES ASSOCIATION	SMFC	SURFACE MOUNTED OPTICAL FIBER CABINET								
	ELEV	ELEVATION	SMR	SURFACE METAL RACEWAY								
	EM	EMERGENCY	SONET	SYNCHRONOUS OPTICAL NETWORK								
	EMT	ELECTRICAL METALLIC TUBING	SP	SERVICE PROVIDER								
	ENCL	ENCLOSURE	SPEC	SPECIFICATIONS								
	EPM	ELECTRONIC POWER METER	SPST	SINGLE POLE SINGLE THROW								
	EPO	EMERGENCY POWER OFF	ST	SHUNT TRIP								
	EQUIP	EQUIPMENT	STP	SHIELDED TWISTED PAIR								
	ETR	EXISTING TO REMAIN	SVGA	SUPER VIDEO GRAPHICS ARRAY								
	EWC	ELECTRIC WATER COOLER	SW	SWITCH								
			SWBD	SWITCHBOARD								
	F	FUSE; DEGREES FAHRENHEIT	TBB	TELECOMMUNICATIONS BONDING BACKBONE								
	FA	FIRE ALARM	TEL	TELEPHONE								
	FAAP	FIRE ALARM ANNUNCIATOR PANEL	TELCO	TELEPHONE COMPANY								
	FACP	FIRE ALARM CONTROL PANEL	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR								
	FBO	FURNISHED BY OWNER	TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION								
	FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR	TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR								
	FOIO	FURNISHED BY OWNER INSTALLED BY OWNER	TP	TAMPER PROOF								
	FSD	FIRE SMOKE DAMPER	TR	TELECOMMUNICATIONS ROOM								
			TTB	TELEPHONE TERMINAL BOARD								
	G	GROUND	TV	TELEVISION								
	GFI	GROUND FAULT INTERRUPTER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION								
	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TYP	TYPICAL								
	GND	GROUND	UG	UNDERGROUND								
	GRS	GALVANIZED RIGID STEEL	UL	UNDERWRITERS LABORATORIES								
			UON	UNLESS OTHERWISE NOTED								
	HC	HORIZONTAL CROSS CONNECT	UPS	UNINTERRUPTIBLE POWER SUPPLY								
	HID	HIGH INTENSITY DISCHARGE	UTP	UNSHIELDED TWISTED PAIR								
	HP	HORSEPOWER	UV	UNIT VENTILATOR								
	HTR	HEATER	V	VOLTS								
	Hz	HERTZ	VA	VOLT AMPERES								
			VFD	VARIABLE FREQUENCY DRIVE								
	IC	INTERMEDIATE CROSS CONNECT	W	WATT; WIRE								
	IBC	INTERNATIONAL BUILDING CODE	W/	WITH								
	IDF	INTERMEDIATE DISTRIBUTION FRAME	W/O	WITHOUT								
	IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS	WA	WORKSTATION AREA								
	IG	ISOLATED GROUND	WAN	WIDE AREA NETWORK								
	IMC	INTERMEDIATE METALLIC CONDUIT	WG	WIRE GUARD								
	ISDN	INTEGRATED SERVICES DIGITAL NETWORK	WH	WATT HOUR METER								
			WP	WEATHERPROOF								
	J	JUNCTION	XMFR	TRANSFORMER								
	KVA	KILOVOLT AMPERE	Y	WYE								
	KW	KILOWATT	Z	IMPEDANCE								
	KCMIL	THOUSAND CIRCULAR MILS										
	KVAR	KILOVOLT AMPERE REACTIVE										
	LAN	LOCAL AREA NETWORK										
	LCP	LIGHTING CONTROL PANEL										
	LEC	LOCAL EXCHANGE CARRIER										
	LT	LIGHT										
	LTG	LIGHTING										
	M	METER										
	MAN	METROPOLITAN AREA NETWORK										
	MAX	MAXIMUM										
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SHEET NAME

ELECTRICAL  
ABBREVIATIONS  
& GENERAL  
NOTES

SHEET

E0.02