

GENERAL NOTES

1. THE BIDDING CONTRACTOR IS REQUIRED TO MAKE A DETAILED FIELD INVESTIGATION PRIOR TO BID. ANY FIELD OBSERVATIONS MADE NEEDING RESOLUTION SHALL BE SUBMITTED TO THE CONTRACT OFFICER IN A RFI PRIOR TO BID.
2. ANY OUTAGES TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE VA 14 DAYS PRIOR TO START OF WORK.
3. PROVIDE TEMP POWER AND LIGHTING AS REQUIRED DURING THE CONSTRUCTION PHASE.




ELECTRICAL LEGEND

GENERAL ELECTRICAL DEVICES:
 S SINGLE POLE LIGHTING SWITCH. MOUNT 48" AFF UNLESS NOTED OTHERWISE. SUBSCRIPT INDICATES AS FOLLOWS:
 3 - THREE-WAY LIGHTING SWITCH.
 D DUPLEX RECEPTACLE NEMA 5-20R. MOUNT 18" AFF UNLESS NOTED OTHERWISE. VERIFY DUPLEX MOUNTING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. SUBSCRIPT INDICATES AS FOLLOWS:
 G - GROUND FAULT CIRCUIT INTERRUPTER TYPE.
 WP - GFI DEVICE WITH DIECAST WEATHERPROOF BACKBOX & CLEAR WEATHERPROOF (IN-USE) COVERPLATE. IN EXTERIOR LOCATIONS MOUNT 30" AFG. 84" - MOUNTING HEIGHT OF DEVICE AFF.
 J JUNCTION BOX.
DISTRIBUTION & POWER EQUIPMENT:
 P PANELBOARD. MOUNT AS INDICATED. SEE PANELBOARD SCHEDULES.
 NEC 110.28(A) WORKING CLEARANCE.
 F FLOOR MOUNTED TRANSFORMER WITH CONCRETE HOUSEKEEPING PAD. SEE TRANSFORMER SCHEDULE FOR SIZE AND TYPE.
 M MAGNETIC MOTOR STARTER. SIZE AS REQUIRED. MOUNT IN SERVING ELECTRICAL ROOM UNLESS SPECIFICALLY NOTED OTHERWISE.
 C COMBINATION MAGNETIC MOTOR STARTER DISCONNECT. SIZE AS REQUIRED.
 N NON-FUSED HEAVY DUTY SAFETY SWITCH. SIZE FOR LOAD BEING SERVED.
 F FUSED HEAVY DUTY SAFETY SWITCH. SIZE FOR LOAD BEING SERVED.
LIGHT FIXTURES:
 EPL SURFACE MOUNTED ROUGH SERVICE LIGHT FIXTURE. SUPPLY FIXTURE WITH EMERGENCY BATTERY BACKUP.
 (BASIS OF DESIGN: LITHONIA VAP 4000LM FST MD MVOLT GZ10 35K 90CRI BSL722)
OTHER:
 C CIRCUIT RUN CONCEALED ABOVE CEILING OR IN WALL.
 F CIRCUIT RUN CONCEALED IN OR BELOW FLOOR SLAB OR UNDERGROUND.
 H HOMERUN TO PANELBOARD. ANY CIRCUIT WITHOUT FURTHER DESIGNATION SHALL BE 2#12 #12G, 1/2" C. TICK MARKS INDICATE # OF CONDUCTORS (EGG NOT SHOWN). MINIMUM SIZE ON 120V HOMERUNS GREATER THAN 50 FEET SHALL BE #10 AWG. MINIMUM SIZE ON 120V HOMERUNS GREATER THAN 100 FEET SHALL BE #8 AWG. MINIMUM SIZE ON 277V HOMERUNS GREATER THAN 180 FEET SHALL BE #6 AWG. MINIMUM SIZE ON 277V HOMERUNS GREATER THAN 100 FEET SHALL BE #10 AWG. INCREASE CONDUIT SIZE AS REQUIRED PER NEC. UNDERLINED TEXT INDICATES CIRCUIT DESIGNATION.
 1 SHEET NOTE TAG.
 L LEADERS.
FIRE ALARM SYSTEM:
 H FIRE ALARM SYSTEM ADDRESSABLE HEAT DETECTOR. CEILING MOUNT. SUBSCRIPT 190° INDICATES TO PROVIDE 190° DEVICE WITH MONITOR MODULE.
 S FIRE ALARM SYSTEM ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR. CEILING MOUNT.
 R FIRE ALARM SYSTEM ADDRESSABLE RESEARCH HANDLING UNIT. SHUNT TRIP RELAY (UNLESS NOTED OTHERWISE). PROVIDE WITH POWER RELAY WHERE REQUIRED.
 E FIRE ALARM SYSTEM ADDRESSABLE CONTROL DEVICE FOR ELEVATOR RECALL. FUTURE AND SHUNT TRIP AS REQUIRED BY CODE/FIRE MARSHAL. PROVIDE AS REQUIRED FOR "DOWN" AND "ALTERNATE" FLOORS. ALSO INCLUDE ALL AS REQUIRED TO SHUNT TRIP THE SHUNT TRIP CKT.
 M ADDRESSABLE MONITOR MODULE CONNECTED TO FLOW SWITCH.
 T ADDRESSABLE MONITOR MODULE CONNECTED TO TAMPER SWITCH.
 P ADDRESSABLE MONITOR MODULE CONNECTED TO PRESSURE SWITCH.
 F ADDRESSABLE MONITOR MODULE CONNECTED TO FIRE PUMP CONTROLLER. PROVIDE SEPARATE INDICATIONS FOR:
 1. FIRE PUMP RUNNING.
 2. FIRE PUMP POWER LOSS.
 3. FIRE PUMP PHASE REVERSAL.
 4. FIRE PUMP LOW PRESSURE.
 M ADDRESSABLE MONITOR MODULE.

ABBREVIATIONS

A	AMPS	MCM	THOUSAND CIRCULAR MILS
AC	ABOVE COUNTER	MH	MANHOLE
AF	AMP FRAME	MIN	MINIMUM
AFF	ABOVE FINISHED FLOOR	MISC	MISCELLANEOUS
AFG	ABOVE FINISHED GRADE	MLO	MAIN LUGS ONLY
AHU	AIR HANDLING UNIT	MNT	MOUNTING HEIGHT
AL	ALUMINUM	MTG	MOUNTING
ARCH	ARCHITECT OR ARCHITECTURAL	MTS	MANUAL TRANSFER SWITCH
AT	AMP TRIP	MV	MEDIUM VOLTAGE
ATS	AUTOMATIC TRANSFER SWITCH	N1	NEMA 1
ATU	AIR TERMINAL UNIT	N3R	NEMA 3R
AWG	AMERICAN WIRE GAUGE	N/A	NOT APPLICABLE
BAS	BUILDING AUTOMATION SYSTEM	NA	NOT APPLICABLE
BOND	BONDING JUMPER	NEC	NATIONAL ELECTRICAL CODE
BKR	CIRCUIT BREAKER	NESC	NATIONAL ELECTRICAL SAFETY CODE
BLDG	BUILDING	NEU	NEUTRAL
BOD	BASIS OF DESIGN	OCPD	OVERCURRENT PROTECTION DEVICE
C	CONDUIT	OFI	OWNER FURNISHED OWNER INSTALLED
CB	CIRCUIT BREAKER	OFIC	OWNER FURNISHED CONTRACTOR INSTALLED
CL	CURRENT LIMITING	OH	OVERHEAD
CLL	CENTERLINE	OHE	OVERHEAD ELECTRIC
CLG	CEILING	OHP	OVERHEAD PRIMARY
CKT	CIRCUIT	OHS	OVERHEAD SECONDARY
CT	CURRENT TRANSFORMER	PBD	PANELBOARD
CU	COPPER	PF	POWER FACTOR
DDC	DIRECT DIGITAL CONTROL	PNL	PANELBOARD
DEMO	DEMOLISH	PT	POTENTIAL TRANSFORMER
EC	ELECTRICAL CONTRACTOR	PWR	POWER
EGC	EQUIPMENT GROUNDING CONDUCTOR	RCPT	RECEPTACLE
ELEC	ELECTRICAL	REQD	REQUIRED
EMGB	ELECTRICAL MAIN GROUNDING BUSBAR	R	ROOM
EF	EXHAUST FAN	RIG	RIGID GALVANIZED STEEL CONDUIT
EX	EXISTING TO REMAIN	RIM	RIGID METALLIC CONDUIT
EXT	EXTERIOR	RVS	REDUCED VOLTAGE SOLID STATE
EWC	ELECTRIC WATER COOLER	SA	SURGE ARRESTER
EMT	ELECTRICAL METALLIC TUBING	SCA	SHORT CIRCUIT AMPS
EQUIP	EQUIPMENT	SF	SUPPLY FAN
FMC	FLEXIBLE METAL CONDUIT	SPC	SPECIFICATION
FACP	FIRE ALARM SYSTEM CONTROL PANEL	SWBD	SWITCHBOARD
FUSE	FUSE	SWGR	SWITCHGEAR
FLA	FIRE ALARM	TBB	TELECOMMUNICATIONS BONDING BACKBONE
FLA	FULL LOAD AMP	TR	TELECOMMUNICATIONS ROOM
FLOOR	FLOOR	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
FULL	FULL VOLTAGE NON-SPRINGING	TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
GR	GROUND FAULT INTERRUPTER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
GRD	GROUND (OR GFI FOR RECEPTACLE SUBSCRIPT)	TYP	TYPICAL
G	GENERAL CONTRACTOR	UFR	UNDERFLOOR RACEWAY
GND	GROUND	UG	UNDERGROUND
GEC	GROUNDING ELECTRODE CONDUCTOR	UGE	UNDERGROUND ELECTRIC
HH	HANDHOLE	UGP	UNDERGROUND PRIMARY
HDA	HAND-OFF-AUTOMATIC	UGS	UNDERGROUND SECONDARY
HP	HEAT PUMP OR HORSEPOWER	UL	UNDERWRITERS' LABORATORIES
HVAC	HEATING, VENTILATION & AIR-CONDITIONING	UNO	UNLESS NOTED OTHERWISE
IG	ISOLATED GROUND	UPS	UNINTERRUPTIBLE POWER SUPPLY
IMC	INTERMEDIATE METAL CONDUIT	V	VOLT
J	JUNCTION BOX	VA	VOLT-AMPERES
K	KILO	VAR	VOLT-AMPERES REACTIVE
KAIC	KILO-AMPERE INTERRUPTING CAPABILITY	VAV	VARIABLE AIR VOLUME UNIT
KMIL	THOUSAND CIRCULAR MILS	W	WATTS
LCP	LIGHTING CONTROL PANEL	WAO	WORK AREA OUTLET
LTG	LIGHTING	WP	WEATHERPROOF
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT	WTR	WITHSTAND RATING
LV	LOW VOLTAGE	XFMR	TRANSFORMER
MAX	MAXIMUM	XP	EXPLOSION PROOF
MCA	MINIMUM CIRCUIT AMPACITY	ø	PHASE
MCC	MOTOR CONTROL CENTER	72°	DEGREES
MCE	MAIN COMMUNICATIONS EQUIPMENT ROOM	Δ	DELTA
		Ω	OHMS

Order Plans

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