

GENERAL NOTES

(APPLICABLE TO ALL ELECTRICAL DRAWINGS)

THE PLANS AND SPECIFICATIONS ARE ISSUED AS A COMPLETE SET. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE COMPLETE SET OF DOCUMENTS IN ASCERTAINING THE SCOPE OF WORK AND IN COORDINATION OF HIS WORK WITH THAT OF OTHER TRADES. ANY CONFLICTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT FOR RESOLUTION.

PRIOR TO SUBMITTING A BID THE CONTRACTOR SHALL VISIT THE SITE, REVIEW THE EXISTING CONDITIONS AND ALLOW FOR LABOR, MATERIAL AND COORDINATION THAT IS NECESSARY TO PROVIDE A COMPLETE AND INTEGRATED INSTALLATION OF EACH SYSTEM. CONTRACTOR SHALL TAKE CARE IN ASCERTAINING THE REQUIREMENTS TO INTEGRATE ANY NEW EQUIPMENT WITH EXISTING SYSTEMS.

REFER TO THE CONTRACT DRAWINGS FOR LOCATIONS AND SPACE REQUIREMENTS OF ELECTRICAL EQUIPMENT. COORDINATE THE INSTALLATION OF ELECTRICAL EQUIPMENT WITH OTHER TRADES.

POWER FEEDERS MAY NOT BE SHOWN ON THE DRAWINGS. REFER TO PANEL SCHEDULES OR THE SINGLE LINE DIAGRAM FOR CONDUIT AND FEEDER INFORMATION.

ELECTRICAL SERVICE EQUIPMENT SHALL BE MARKED IN THE FIELD WITH THE CALCULATED, MAXIMUM AVAILABLE FAULT CURRENT AND DATE OF THE CALCULATION. CONTRACTOR SHALL REFERENCE NFPA 70, 110.24, FOR ALL REQUIREMENTS.

ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, CONTROL PANELS, METER SOCKET ENCLOSURES AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD OR FACTORY MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. MARKINGS SHALL MEET NEC 110.21(B) AND NFPA 70E 130.5(H) AND SHALL BE CONSPICUOUSLY LOCATED AND CLEARLY VISIBLE.

WHERE FIXTURE QUANTITIES ARE SHOWN ON DRAWINGS THEY ARE FOR AREA FIXTURE TYPE REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR FIXTURE COUNT AND SHALL VERIFY ALL FIXTURE QUANTITIES PRIOR TO BIDDING.

LIGHT FIXTURES ARE SHOWN IN APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL REFERENCE THE ARCHITECTURAL REFLECTED CEILING PLAN, BUILDING ELEVATIONS, AND DETAILS FOR EXACT HEIGHT AND LOCATIONS.

RECESSED LIGHT FIXTURES INSTALLED IN LAY-IN CEILINGS SHALL BE PROVIDED WITH GRID CLIPS, EVEN IF NOT SPECIFICALLY IDENTIFIED IN THE FIXTURE MODEL NUMBER.

WHERE SHOWN, THE NUMBER ADJACENT TO LIGHT FIXTURES REPRESENTS THE CIRCUIT NUMBER AND THE LETTER REPRESENTS THE SWITCH CONTROLLING THE FIXTURE. EMERGENCY BALLASTS, EXIT LIGHTING, AND EMERGENCY LIGHTS SHALL NOT BE SWITCHED AND SHALL BE CONNECTED TO THE CIRCUIT INDICATED.

ALL EXIT SIGNS AND THE EMERGENCY BATTERY BACK UP OF FIXTURES INDICATED BY "NL" SHALL BE CONNECTED UNSWITCHED. OTHERWISE, ALL CROSS-SHADED EMERGENCY FIXTURES SHALL BE SWITCHED NORMALLY WITH OTHER NON-EMERGENCY FIXTURES. ON LOSS OF NORMAL POWER, THE BATTERY OF THE EMERGENCY FIXTURE SHALL AUTOMATICALLY ILLUMINATE THE EMERGENCY FIXTURE REGARDLESS OF THE POSITION OF THE LIGHTING CONTROL SWITCH. ALL CIRCUITS SHALL BE CONNECTED TO THE CIRCUIT INDICATED, U.O.N.

ELECTRICAL EQUIPMENT SHOWN ON THE DRAWING HAS BEEN SELECTED BASED ON DIMENSION TO FIT THE SPACE. THE CONTRACTOR SHALL VERIFY SUCH WITH PROPOSED EQUIPMENT DIMENSIONS PRIOR TO ORDERING OF THE EQUIPMENT.

MANUFACTURER'S RECOMMENDATIONS FOR CONDUCTOR SIZING, CIRCUIT BREAKER OR FUSE PROTECTION OF ELECTRICALLY OPERATED EQUIPMENT MAY DIFFER FROM THOSE INDICATED ON DRAWINGS. CONTRACTOR SHALL CONFIRM RATINGS, PRIOR TO ORDERING EQUIPMENT. PROVIDE ELECTRICAL PROTECTION TO EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS. WHERE THE MECHANICAL EQUIPMENT NAMEPLATE CIRCUIT REQUIREMENTS DIFFER FROM THE SPECIFIED EQUIPMENT, THE CIRCUIT BREAKERS, DISCONNECTS, AND WIRING SHALL BE REVISED ACCORDINGLY. REVISIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

FUSE SIZE FOR MECHANICAL EQUIPMENT DISCONNECT SWITCHES SHALL NOT BE GREATER THAN THE EQUIPMENT'S NAMEPLATE MOCF OR MAXIMUM FUSE SPECIFICATION. FUSED DISCONNECT SWITCHES SHALL BE INSTALLED WITH CLEARANCES PER NEC. DISCONNECT SWITCHES TO BE "HEAVY DUTY" TYPE.

CONTRACTOR SHALL REVIEW THE COMPLETE SET OF DOCUMENTS AND PROVIDE CONNECTION TO ALL ELECTRICALLY OPERATED EQUIPMENT INDICATED, EVEN IF NOT SHOWN ON THE ELECTRICAL PLANS. UNLESS OTHERWISE NOTED, COORDINATE THE LOCATION AND ELECTRICAL CONNECTION REQUIREMENTS PRIOR TO ORDERING OR INSTALLATION OF ELECTRICAL EQUIPMENT.

SUSPENDED, CEILING MOUNTED, ELECTRICAL EQUIPMENT SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE NOT FROM THE CEILING.

COORDINATE EXACT LOCATIONS OF ALL DEVICES, SWITCHES, RECEPTACLES, BOXES, COMM. OUTLETS, ETC. WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

CONNECTION TO ANY ROOF MOUNTED EQUIPMENT SHALL BE MADE ONLY THRU THE EQUIPMENT BASE. NO ADDITIONAL ROOF PENETRATIONS SHALL BE MADE.

JUNCTION AND OUTLET BOXES SHALL BE SIZED IN ACCORDANCE WITH NEC SECTION 314. MINIMUM SIZE FOR JUNCTION BOXES SHALL BE 4"SQ. X 2-1/8"D. BOXES LARGER THAN MINIMUM SIZE WILL BE REQUIRED AT SOME LOCATIONS.

CIRCUITING AND HOMERUN CONDUITS SHALL BE INSTALLED AS INDICATED ON THE ELECTRICAL PLANS. DO NOT CHANGE CIRCUIT NUMBERS WITHOUT PRIOR APPROVAL FROM ENGINEER. WHERE HOMERUNS ARE SHOWN AS A SINGLE HOMERUN FOR LIGHTS OR RECEPTACLE CIRCUITS, CONTRACTOR SHOULD GROUP A MAXIMUM OF THREE CIRCUITS OR 6-CURRENT CARRYING CONDUCTORS PER HOMERUN TO CONSERVE CONDUIT SPACE AT PANEL.

JUNCTION AND PULLBOXES SHALL ONLY BE LOCATED IN ACCESSIBLE CEILING AREAS. COORDINATE WITH ARCHITECTURAL RCP PRIOR TO ROUGH-IN.

PROVIDE DETECTABLE WARNING TAPE 12" BFG FOR UNDERGROUND CONDUITS AND BURIED GROUNDING CONDUCTORS.

ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS SHALL BE SEALED FOR MAINTAINING THE RATING OF THE ASSEMBLY. DO NOT INSTALL FLUSH MOUNTED BOXES BACK-TO-BACK IN WALLS, OFFSET BOXES IN ADJACENT STUD CAVITIES. MAINTAIN AT LEAST A 24 INCH SEPARATION IN FIRE-RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE-RATED WALLS.

TERMINATION OF PHASE, NEUTRAL, AND GROUNDING CONDUCTORS SHALL BE MADE TO INDIVIDUAL TERMINALS/LUGS AT PANELS, DISCONNECTS, DEVICES, ETC., UNLESS MULTIPLE CONDUCTOR TERMINATIONS ARE SPECIFICALLY ALLOWED BY THE MANUFACTURER. WHERE MULTIPLE CONDUCTOR TERMINATIONS ARE ALLOWED, THE TERMINATIONS SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

FOR BRANCH CIRCUIT WIRING THAT IS LARGER THAN#10 AWG, PROVIDE WIRE SIZE ADAPTER FOR REDUCTION TO #10 AND TERMINATION AT THE WIRING DEVICE.

FOR EACH NEW ELECTRICAL PANEL, PROVIDE A TYPED WRITTEN CIRCUIT DIRECTORY INSTALLED ON INSIDE OF DOOR, INDICATING THE AREA AND LOADS SERVED BY EACH CIRCUIT. CIRCUIT DIRECTORY DESCRIPTIONS SHALL INCLUDE THE ACTUAL SPECIFIC NAMES AND/OR NUMBERS FOR SPACES, WORKSTATIONS, ETC. AS COORDINATED WITH THE OWNER.

OUTLET BOXES FOR CATV OUTLETS SHALL BE MINIMUM 3.5" DEEP. CONDUIT SHALL ENTER NEAR BACK OF BOX.

ALL CIRCUITS SHALL INCLUDE AN EQUIPMENT GROUND CONDUCTOR IN THE RACEWAY.

PROVIDE 4" SQUARE RECESSED BOX WITH SINGLE GANG TRIM AND ¾" ELBOWED INTO ACCESSIBLE CEILING SPACE FOR ALL COMMUNICATION & TELEVISION OUTLETS SHOWN. PROVIDE COMPRESSION CONDUIT CONNECTOR ON CONDUIT END, PLASTIC SCREW ON BUSHING, AND PULL STRING. CONTRACTOR RESPONSIBLE FOR PULLING CAT6 CABLE TO EACH DATA OUTLET.

FIRE ALARM SYSTEM WORK SHALL BE BY A FIRE ALARM CONTRACTOR LICENSED FOR WORK IN THE STATE OF THE PROJECT. ALL FIRE ALARM WIRING SHALL BE RUN IN CONDUIT.

FINAL QUANTITY AND LOCATION OF FIRE ALARM DEVICES SHALL BE IN ACCORDANCE WITH NFPA-72, ADA, MANUFACTURER'S REQUIREMENTS, NFPA-101, IBC, AND ANY ADDITIONAL LOCAL GOVERNING CODES.

THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR THOROUGHLY REVIEWING THE COMPLETE SET OF PLANS AND SPECIFICATIONS TO ASCERTAIN/VERIFY REQUIRED DEVICE LOCATIONS.

PRIOR TO BID, THE CONTRACTOR SHALL VISIT THE SITE TO ASCERTAIN REQUIREMENTS FOR INTERFACING THE NEW FIRE ALARM SYSTEM WITH THE EXISTING FIRE ALARM PANEL.

INSTALL SMOKE DETECTORS IN ACCORDANCE WITH NFPA 72 AND THE MANUFACTURER'S INSTRUCTIONS. MAINTAIN A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM WALLS, LIGHT FIXTURES, AND OTHER OBJECTS AND 12 INCHES FROM FIXTURES. DETECTORS SHALL NOT BE INSTALLED WITHIN 3 FEET OF HVAC SUPPLY DIFFUSERS OR IN THE DIRECT AIR FLOW OF HVAC SUPPLY DIFFUSERS.

ANY ACCESS CONTROL MAG LOCKS SHALL BE FACE MOUNTED TO THE DOOR FRAME SO AS NOT TO REDUCE THE CLEAR HEADROOM OF THE DOORWAY.

ELECTRICAL CONTRACTOR SHALL PROVIDE ELECTRICAL LIGHTING CONTROLS SYSTEMS COMMISSIONING VIA A THIRD PARTY PER ALL REQUIREMENTS SET FORTH UNDER SECTION C408 OF 2021 IECC AND AS SPECIFIED INCLUDING, BUT NOT LIMITED TO, TESTING OF OCCUPANT SENSOR CONTROLS, TIME-SWITCH CONTROLS, AND DAYLIGHT RESPONSIVE CONTROLS. WITHIN 90 DAYS OF DATE OF RECEIPT OF CERTIFICATE OF OCCUPANCY, PROVIDE ALL NECESSARY DRAWINGS, MANUALS, AND FINAL COMMISSIONING REPORT PER SAME CODE SECTION REQUIREMENTS.

ELECTRICAL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WALL OUTLET-DUPLEX RECEPTACLE, FLUSH MOUNTED, NEMA 5-20R		FLEXIBLE CONDUIT CONNECTION
	WALL OUTLET-DUPLEX OUTLET, WITH GROUND FAULT INTERRUPTING FEATURE		CIRCUIT RISER UP
	WALL OUTLET-DUPLEX OUTLET, WITH GROUND FAULT INTERRUPTING FEATURE. WP INDICATES WEATHERPROOF COVER PROVIDED		CIRCUIT RISER DOWN
	WALL OUTLET-DUPLEX RECEPTACLE, FLUSH MOUNTED ABOVE COUNTER, NEMA 5-20R		TIMECLOCK
	WALL OUTLET-DUPLEX RECEPTACLE, FLUSH MOUNTED UNDER COUNTER, NEMA 5-20R		PHOTOELECTRIC CELL
	WALL OUTLET-DOUBLE DUPLEX RECEPTACLE, FLUSH MOUNTED, NEMA 5-20R		LIGHTING RELAY CONTROL PANEL
	3 POLE WALL OUTLET "X" INDICATES NEMA CONFIGURATION; COORDINATE WITH EQUIP. SUPPLIER FOR RECEPT. CONFIG. REQUIRED		LIGHTING CONTACTOR
	CEILING OUTLET, DUPLEX RECEPTACLE, FLUSH MOUNTED, NEMA 5-20R		MASS NOTIFICATION SYSTEM CONTROL PANEL
	FLOOR OUTLET - DUPLEX RECEPTACLE NEMA 5-20R		MASS NOTIFICATION SYSTEM - NOTIFICATION DEVICE
	MULTI-OUTLET ASSEMBLY WIREC @ 12" OC		MASS NOTIFICATION SYSTEM - CEILING MOUNTED NOTIFICATION DEVICE
	SWITCHBOARD OR DISTRIBUTION PANEL		FIRE ALARM CONTROL PANEL
	PANELBOARD REFER TO SCHEDULE.		FIRE ALARM REMOTE ANNUNCIATOR
	GROUNDING ELECTRODE CONNECTION		POWER SUPPLY; "FA" INDICATES FIRE ALARM, "D" INDICATES DIMMER
	COPPER WELD GROUND ROD AND INSPECTION WELL 3/4"x10'-0" UON		FIRE ALARM MANUAL PULL STATION
	WELDING RECEPTACLES, 480V, 60A, 3Ø, 3W		FIRE ALARM COMBINATION HORN/STROBE - SEMI-FLUSH MOUNTED UON, 6'-8" AFF TO BOTTOM OF STROBE UON
	DISCONNECT SWITCH, FUSIBLE		SUBSCRIPT-CANDELA RATING
	DISCONNECT SWITCH, NON FUSIBLE		FIRE ALARM COMBINATION HORN/STROBE - CEILING MOUNTED; SUBSCRIPT-CANDELA RATING
	METER BASE AND METER		FIRE ALARM STROBE - CEILING MOUNTED SUBSCRIPT-CANDELA RATING
	ELECTRIC VENT FAN		FIRE ALARM STROBE - SEMI-FLUSH WALL MOUNTED UON, 6'-8" AFF TO BOTTOM UON; SUBSCRIPT-CANDELA RATING
	COMBINATION MAGNETIC MOTOR STARTER WITH FUSIBLE DISCONNECT SWITCH; INTEGER INDICATES NEMA SIZE		FIRE ALARM SYSTEM - HVAC DUCT SMOKE DETECTOR
	MOTOR CONNECTIONS, SIZE AS SCHEDULED		FIRE ALARM SMOKE DETECTOR
	CEILING FAN CONNECTION		FIRE ALARM HEAT DETECTOR. 195 INDICATES 195 DEGREE DETECTOR
	PULL BOX WITH HINGED COVER, SIZE AS INDICATED		RESCUE ASSISTANCE CALL STATION
	DISTRIBUTION OR PAD MOUNTED TRANSFORMER		RESCUE ASSISTANCE ANNUNCIATOR PANEL
	CEILING OUTLET - LUMINAIRE REFER TO FIXTURE SCHEDULE. "X" EQUAL FIXTURE MARK. "Z" EQUAL BR CKT DESIGNATION, "a" INDICATED CONTROLLING SWITCH LEG		DOOR HOLD OPEN DEVICE - INTERLOCK WITH FIRE ALARM TO RELEASE ON ALARM CONDITION
	WALL BRACKET - LUMINAIRE REFER TO FIXTURE SCHEDULE. "X" EQUAL FIXTURE MARK		SINGLE MONITOR MODULE
	STRIP FIXTURE, REFER TO FIXTURE SCHEDULE; "X" EQUAL FIXTURE MARK		DUAL MONITOR MODULE
	LUMINAIRE WITH INTEGRAL EMERGENCY POWER PACK		RELAY MODULE
	CEILING MOUNTED DOUBLE-HEAD EMERGENCY LIGHT		SPRINKLER FLOW OR PRESSURE SWITCH
	WALL BRACKET - REFER TO FIXTURE SCHEDULE; "X" EQUAL FIXTURE MARK		SPRINKLER TAMPER SWITCH
	EXIT SIGN FIXTURE - DIRECTIONAL ARROWS AS INDICATED		SPRINKLER SYSTEM - DRY PIPE AIR COMP PRESSURE SWITCH
	CEILING MOUNTED OCCUPANCY SENSOR		INTERCOM CALL-IN STATION
	WALL SWITCH-20AMP, 120/277V, SPST		INTERCOM/PA SYSTEM - CEILING SPEAKER
	WALL SWITCH-20AMP, 120/277V, DIMMING		INTERCOMPAGING EXTERIOR, WEATHERPROOF, HORN/SPEAKER
	WALL SWITCH-20AMP, 120/277V, 3-WAY		PROGRAM CLOCK. SUBSCRIPT "Z" INDICATES TWO FACES
	MOTOR RATED WALL SWITCH-20AMP, 120/277V, WITH INTEGRAL THERMAL OVERLOAD		TELEPHONE SYSTEM - TERMINAL BACKBOARD (TTB)
	WALL SWITCH-20AMP, 120/277V, KEY OPERATED		PROGRAM BELL
	WALL SWITCH-20AMP, SPST. "a,b,c..." INDICATES CONTROLLING SWITCH. NUMBER OF LETTERS CORRESPONDS TO NUMBER OF SWITCHES REQUIRED		SHUNT TRIP COIL
	WALL SWITCH-LOW VOLTAGE W/MOMENTARY CONTACT		DOOR CONTROLLER FOR ACCESS CONTROL SYSTEM
	WALL SWITCH-20AMP, 120/277V WITH OCCUPANCY SENSOR CONTROL		KEY PAD FOR ACCESS CONTROL SYSTEM
	POWER POLE		SECURITY CAMERA
	EXISTING OVERHEAD LINE		FIRE/SECURITY SYSTEM KEYPAD
	TELECOMMUNICATIONS UNDERGROUND CONDUIT OR DUCT BANK		SECURITY SYSTEM DOOR CONTACT
	EXISTING UNDERGROUND CONDUIT OR DUCT BANK		SECURITY PANEL
	SURFACE METAL RACEWAY, OR WIREWAY, SIZE AS INDICATED WITH RECEPTACLES AS SHOWN.		SECURITY SYSTEM MOTION SENSOR. "LR" INDICATES LONG RANGE.
	NEW UNDERGROUND CONDUIT OR DUCT BANK		COMM OUTLET, - VOICE & DATA, RECESSED IN WALL, UON. WHERE SUBSCRIPT "AC" SHOWN INDICATES ABOVE COUNTER.
	CIRCUIT CONCEALED BELOW GRADE OR FLOOR (#12 AWG UNLESS NOTED OTHERWISE OR REQUIRED)		COMM OUTLET, - VOICE ONLY, RECESSED IN WALL, UON. WHERE SUBSCRIPT "W" SHOWN INDICATES WALL MOUNTED.
	CONDUIT CONCEALED IN WALL OR OVERHEAD (#12 AWG UNLESS NOTED OTHERWISE OR REQUIRED)		COMM OUTLET, - DATA ONLY, RECESSED IN WALL, UON
	SHORT SLASHES = PHASE OR SWITCHED CONDUCTORS, LONG SLASHES = NEUTRAL CONDUCTORS, NO SLASHES=#12,1#12G-3/4", U.O.N.		COMM FLOOR OUTLET - VOICE/DATA
	HOMERUN TO PANEL (CIRCUIT NUMBERS INDICATED)		CODE SIZE JUNCTION BOX-SIZE AS NOTED OR REQ'D
	NUMBER OF CURRENT CARRYING, INTEGER INDICATES CONDUCTOR SIZE		TWO GANG RECESSED BOX WITH 1" C INTO ACCESSIBLE CEILING SPACE FOR TV SIGNAL
	CABLE TRAY, SIZES AS INDICATED		SINGLE GANG RECESSED BOX WITH 3/4" C INTO ACCESSIBLE CEILING SPACE FOR SOUND SYSTEM
	POWER DISTRIBUTION HANDHOLE OR MANHOLE, SIZE AS INDICATED		RECESSED BOX WITH 1" C INTO ACCESSIBLE CEILING SPACE FOR VIDEO
	TELECOMMUNICATIONS HANDHOLE OR MANHOLE, SIZE AS INDICATED		RECESSED FLOOR BOX WITH 1" C INTO ACCESSIBLE CEILING FOR VIDEO
NOTE: ALL SYMBOLS MAY NOT BE USED			
	ELECTRICAL KEYED NOTE REFERENCE		

ABBREVIATIONS	
AF	AMPERE FRAME/FUSE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CURRENT
AL	ALUMINUM
AS	AMPERE SWITCH
AT	AMPERES TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BCG	BARE COPPER GROUND
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CL	CENTER LINE
CLR	CLEAR
CO	CONDUIT ONLY
CSFD	COMBINATION SMOKE/FIRE DAMPER
CTR	CENTER
CU	COPPER
DIA	DIAMETER
DP	DISTRIBUTION PANEL
DWG	DRAWING
E	EXISTING
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
ELR	END-OF-LINE RESISTOR
EPO	EMERGENCY POWER OFF
EPR	ETHYLENE PROPYLENE RUBBER
ER	EXISTING TO REMAIN
EQ	EQUAL
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAPS	FIRE ALARM POWER SUPPLY
FARP	FIRE ALARM REMOTE PANEL
FLA	FULL LOAD AMPERES
FVNR	FULL VOLTAGE NON-REVERSING
G	GROUND
GALV	GALVANIZED
RGS	RIGID GALVANIZED STEEL
GFI	GROUND FAULT INTERRUPTER
HD	HEAT DETECTOR
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HO	HIGH OUTPUT
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HSP	HOUSE SERVICE PANEL
HV	HIGH VOLTAGE
HZ	HERTZ
IC	INTERCOM
ISC	INTERRUPTING SHORT CIRCUIT
IG	ISOLATED GROUND
INST	INSTANTANEOUS
JB	JUNCTION BOX
KV	KILOVOLTS
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
KWH	KILOWATT-HOURS
LCP	LIGHTING CONTROL PANEL
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MCP	MOTOR CIRCUIT PROTECTOR
MH	MANHOLE
MIC	MICROPHONE
MILO	MAIN LUGS ONLY
MSB	MAIN SWITCHBOARD
MSG	MAIN SWITCHGEAR
N	NEUTRAL
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT (NON-SWITCHED)
NO	NORMALLY OPEN, NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OH	OVERHEAD
PA	PUBLIC ADDRESS
PB	PUSHBUTTON
PH	PHASE
POC	POINT OF CONNECTION
PVC	POLYVINYL CHLORIDE
R	REMOVED
REC	RECEPTACLE
REQ'D	REQUIRED
RSC	RIGID STEEL CONDUIT
SEC	SECONDARY
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
TD	TIME DELAY
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
VFD	VARIABLE FREQUENCY DRIVE
W/	WITH
WH	WATER HEATER
WP	WEATHERPROOF
XFMR	TRANSFORMER
XLPE	CROSS LINKED POLYETHYLENE
XP	EXPLOSION PROOF
+4'-6"	TYPICAL MOUNTING HEIGHT 4'-6" ABOVE FLOOR OR GRADE TO CENTER OF BOX

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DRAWING REVISIONS

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SHEET

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GENERAL NOTES & SCHEDULES

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