

**SYMBOL LEGEND**

<b>GENERAL</b>		<b>BOXES AND CABINETS</b>	
—	NEW EQUIPMENT	□	DEVICE BOX WITH BLANK COVER PLATE
- - - -	EXISTING EQUIPMENT	○	JUNCTION BOX
- - - - -	EXISTING DEVICE TO BE REMOVED (RISER AND ONE-LINE)	□	PULL BOX
- - - - -	EXISTING DEVICE TO BE REMOVED (DEMOLITION PLAN)	□	CABINET, TOP OF TRIM 6"-2" A.F.F.
<b>DRAWING NOTES AND DESIGNATIONS</b>		<p>208Y/120V-3ø-4W PANEL, REFER TO PANEL SCHEDULES FOR SIZE, RATING AND MOUNTING TYPE. ALSO REFER TO ONE LINE DIAGRAM.</p> <p>480Y/277V-3ø-4W PANEL, REFER TO PANEL SCHEDULES FOR SIZE, RATING AND MOUNTING TYPE. ALSO REFER TO ONE LINE DIAGRAM.</p>	
ⓧ	DRAWING KEYED NOTES	<b>SWITCHGEAR</b>	
ⓧ	SEQUENCE OF CONSTRUCTION REFERENCE TAG	□	LOW VOLTAGE POWER SWITCHGEAR CIRCUIT BREAKER
ⓧ	EQUIPMENT DESIGNATIONS	ⓧ	MEDIUM VOLTAGE INTERRUPTER SWITCH
ⓧ	ROOM NUMBER	ⓧ	POTENTIAL TRANSFORMER (NUMBER INDICATES QUANTITY)
ⓧ	FEEDER NUMBER	ⓧ	CURRENT TRANSFORMER (NUMBER INDICATES QUANTITY)
ⓧ	REVISION NOTATION	ⓧ	AMMETER
ⓧ	(X INDICATES NUMBER)	ⓧ	AMMETER SWITCH
<b>RACEWAYS</b>		ⓧ	VOLTMETER
—	CONDUIT TURNED UP	ⓧ	VOLTMETER SWITCH
—	CONDUIT TURNED DOWN	ⓧ	DIGITAL METER UNIT
—	CAPPED CONDUIT	<b>GROUNDING AND BONDING</b>	
<b>WIRE AND CABLE</b>		—	NEC GROUND CONDUCTOR
—	MULTI-CIRCUIT HOME RUN IN NEC CONDUIT TO ASSOCIATED PANELBOARD. SLASH MARKS INDICATE QUANTITY OF WIRES. PHASE WIRE SIZE SHOWN FOLLOWING THE # SYMBOL (IF APPLICABLE). ALPHA NUMERIC DESIGNATION INDICATES SOURCE PANELBOARD AND CIRCUITS.	—	GROUND ROD
—	GREEN GROUND WIRE, #12 AWG UNLESS OTHERWISE NOTED	—	EARTH GROUND
—	SPLICE	<b>LOW VOLTAGE TRANSFORMERS</b>	
—	<b>SINGLE LINE</b>	□	TRANSFORMER (PLAN DENOTATION)
—	MEDIUM-VOLTAGE DRAWOUT AIR CIRCUIT BREAKER	□	TRANSFORMER (SINGLE-LINE DENOTATION)
—	SWITCH AND FUSE UNIT	△	3-PHASE, 3-WIRE DELTA CONNECTION
—	MOLDED CASE CIRCUIT BREAKER	△	3-PHASE WYE, NEUTRAL UNGROUNDED CONNECTION
—	LOW-VOLTAGE DRAWOUT AIR CIRCUIT BREAKER	△	3-PHASE WYE, NEUTRAL GROUNDED CONNECTION
—	FUSED DRAWOUT POTENTIAL TRANSFORMER	<b>BUSWAYS</b>	
—	PANELBOARD	—	PLUG-IN OR FEEDER BUSWAY
—	DRY-TYPE TRANSFORMER	<b>PANELBOARDS</b>	
—	SHUNT TRIP	□	EXISTING PANELBOARD
—	MOTOR STARTER	<b>PROTECTIVE DEVICES</b>	
—	AMMETER	□	SEPARATELY ENCLOSED CIRCUIT BREAKER, NUMBER INDICATES TRIP RATING, FLUSH MOUNTED 44" A.F.F.
—	VOLTMETER	□	NON-FUSED DISCONNECT SWITCH, SURFACE MOUNTED 44" A.F.F. GENERALLY, 5'-0" A.F.F. IN EQUIPMENT ROOMS
—	WATTMETER	□	FUSED DISCONNECT SWITCH, NUMBER INDICATES FUSE SIZE, SURFACE MOUNTED 44" A.F.F. GENERALLY, 5'-0" IN EQUIPMENT ROOMS
—	WATT-HOUR METER	□	RELAY; LETTER INDICATES RELAY TYPE 50 = INSTANTANEOUS OVERCURRENT OR RATE-OF-RISE 67 = AC-DIRECTIONAL OVERCURRENT 68 = LOCK OUT
—	INSTANTANEOUS OVERCURRENT OR RATE-OF-RISE RELAY	□	BOLTED PRESSURE SWITCH
—	AC-TIME OVERCURRENT RELAY	□	CIRCUIT BREAKER (SINGLE-LINE)
—	AC-DIRECTIONAL OVERCURRENT RELAY	□	FUSE (SINGLE-LINE)
—	LOCK OUT RELAY	□	FUSE (SINGLE-LINE)
—	POTHEAD	—	KEY INTERLOCK SYSTEM - REFER TO SPECIFICATIONS
—	STRESS CONE	<b>ELECTRICAL EQUIPMENT DESIGNATIONS</b>	
—	CABLE SPLICE BOX	—	BUILDING
—	15 KV DEAD FRONT ELBOW (600A)	—	FLOOR
—	KIRK-KEY INTERLOCK DEVICE	—	EQUIPMENT NAME
<b>LIGHTING</b>		—	SEQUENCE NUMBER
—	SWITCH	—	NUMBERS IN SEQUENCE - 1,2,3,ETC.
—	BLANK = SINGLE POLE	—	ATSC AUTOMATIC TRANSFER SWITCH (CRITICAL)
—	2 = DOUBLE POLE	—	ATSF AUTOMATIC TRANSFER SWITCH (FIRE PUMP)
—	3 = THREE-WAY	—	ATSG AUTOMATIC TRANSFER SWITCH (GENERAL)
—	LIGHT FIXTURE CEILING MOUNTED	—	ATSM AUTOMATIC TRANSFER SWITCH (MIXED)
—	LIGHT FIXTURE, FLUORESCENT, LETTER INDICATES TYPE.	—	ATSS AUTOMATIC TRANSFER SWITCH (LIFE SAFETY)
—	LIGHT FIXTURE ON EMERGENCY CIRCUIT - LETTER INDICATES TYPE.	—	ATSX AUTOMATIC TRANSFER SWITCH (X-RAY)
—	LIGHT FIXTURE, WALL MOUNTED	—	BOLTED PRESSURE SWITCH
—	LIGHT POLE, ONE LUMINAIRE	—	CB CIRCUIT BREAKER
—	LIGHT POLE, TWO LUMINAIRES	—	CRT FIRE ALARM CRT ANNUNCIATOR
—	EXIT SIGN, WALL MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN	—	DS UNFUSED DISCONNECT SWITCH
—	EXIT SIGN, CEILING MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN	—	FAP FIRE ALARM ANNUNCIATOR
<b>ABBREVIATIONS</b>		—	FATC FIRE ALARM TERMINAL CABINET
A	AMPERE	—	FDS FUSED DISCONNECT SWITCH
AF	AMPERE FRAME	—	FPU FIELD PROCESSING UNIT
AFF	ABOVE FINISH FLOOR	—	GC GENERAL PURPOSE CONTACTOR
AIC	AMPERE INTERRUPTING CAPACITY	—	IEC INTERCOM EQUIPMENT CABINET
AW	AMMETER	—	IEC LIGHTING CONTACTOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	—	LVC LOW VOLTAGE LIGHTING CABINET
AT	AMPERE TRIP	—	LVS LOW VOLTAGE POWER SWITCHGEAR
ATS	AUTOMATIC TRANSFER SWITCH	—	MCCG MOTOR CONTROL CENTER (GENERAL)
AWG	AMERICAN WIRE GAUGE	—	MCCN MOTOR CONTROL CENTER (NORMAL)
BKR	CIRCUIT BREAKER	—	MSG MANUAL TRANSFER SWITCH (GENERAL)
C	CONDUIT	—	NEC NURSE CALL EQUIPMENT CABINET
CAT	CATALOG	—	PBL PLUG-IN BUSWAY LIGHTING
CKT	CIRCUIT	—	PBP PATIENT SERVING UNIT
CLG	CEILING	—	PSU PARALLELING SWITCHGEAR
CT	CABLE TRAY / CURRENT TRANSFORMER	—	SFP SURGICAL FACILITY PANEL
CU	COPPER	—	SWBDC SWITCHBOARD (CRITICAL)
DIA	DIAMETER	—	SWBDE SWITCHBOARD (EMERGENCY)
DIV	DIVISION	—	SWBDE SWITCHBOARD (GENERAL)
DN	DOWN	—	SWBDN SWITCHBOARD (NORMAL)
DWG	DRAWING	—	SWBDS SWITCHBOARD (LIFE SAFETY)
EM	EMERGENCY	—	T TRANSFORMER
E	EXISTING	—	TBTP TELECOMMUNICATION BACKBONE TERMINATION PANEL
EA	EXISTING TO REMAIN	—	TRGB TELECOMMUNICATION ROOM GROUND BUS
EA	EACH	—	TC TIMECLOCK
EMT	ELECTRICAL METALLIC TUBING	—	TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR
EQUIP	EQUIPMENT	—	USSHV UNIT SUBSTATION AT 208Y/120 SECONDARY VOLTAGE
ETA	EXISTING TO BE ABANDONED	—	S SUB-BASEMENT
ERL	EXISTING TO BE RELOCATED	—	B BASEMENT
REC	RECEPTACLE	—	G GROUND
EX	EXISTING TO BE REMOVED	—	F FIRST FLOOR
FLR	FLOOR	—	2 SECOND FLOOR
G	GROUND	—	M MEZZANINE
GA	GAUGE	—	## "02" BUILDING (SEE SITE PLAN FOR BUILDING DESIGNATIONS)
GEC	GROUND ELECTRODE CONDUCTOR	<b>PANELBOARD DESIGNATIONS</b>	
GEN	GENERATOR	—	BUILDING
GFCI	GROUND FAULT CIRCUIT INTERRUPTOR	—	FLOOR
GFI	GROUND FAULT INTERRUPTING SPECIFICATION	—	TYPE
GND	GROUND	—	SYSTEM/SOURCE
HP	HORSEPOWER	—	VOLTAGE
HKBP	HOUSEKEEPING	—	SEQUENCE NUMBER
HTR	HEATER	—	NUMBERS IN SEQUENCE - 1,2,3,ETC.
ID	INSIDE DIAMETER	—	L 480Y/277V
IMC	INTERMEDIATE METAL CONDUIT	—	L 240V OR 208Y/120V
JB	JUNCTION BOX	—	C CRITICAL BRANCH
KV	KILOVOLT	—	E EMERGENCY BRANCH
KVA	KILOVOLT AMPERE	—	G GENERAL BRANCH (EQUIPMENT)
KW	KILOWATT	—	I ISOLATED POWER PANELBOARD
KWH	KILOWATT HOUR	—	N NORMAL BRANCH
LA	LIGHTNING ARRESTER	—	O OPERATING ROOM PANELBOARD
LD	LONG TIME DELAY	—	S LIFE SAFETY BRANCH
LTG	LIGHTING	—	L LIGHTING AND APPLIANCE
MAX	MAXIMUM	—	P POWER DISTRIBUTION PANELBOARD
MC	METAL CLAD CABLE	—	X-RAY PANELBOARD
MCB	MAIN CIRCUIT BREAKER	—	S SUB-BASEMENT
MCC	MOTOR CONTROL CENTER	—	B BASEMENT
MCP	MOTOR PROTECTOR	—	G GROUND FLOOR
MDP	MAIN DISTRIBUTION PANELBOARD	—	1 FIRST FLOOR
<b>ABBREVIATIONS</b>		—	2 SECOND FLOOR
MECH	MECHANICAL	—	M MEZZANINE
MFS	MAIN FUSED SWITCH	—	## "02" BUILDING (SEE SITE PLAN FOR BUILDING DESIGNATIONS)
MIN	MINIMUM	<b>EQUIPMENT NAME</b>	
MLO	MOUNTED	SYSTEM/SOURCE	
MTD	MEDIUM VOLTAGE	VOLTAGE	
MTD	MEDIUM VOLTAGE	(FORMER NAME)	
N	NEW	FED FEES	
N/A	NOT APPLICABLE	EQUIPMENT NAME LABEL DETAIL	
NC	NORMALLY CLOSED		
NEC	NATIONAL ELECTRICAL CODE		
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION		
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		
NIP	NOT IN CONTRACT		
NO	NORMALLY OPEN		
NTS	NOT TO SCALE		
OC	ON CENTER		
OCPP	OVERCURRENT PROTECTIVE DEVICE		
OD	OUTSIDE DIAMETER		
OH	OVERHEAD		
P	POLE		
PB	PULLBOX/PUSHBUTTON		
PNL	PANELBOARD		
PT	POTENTIAL TRANSFORMER		
PVC	POLYVINYL CHLORIDE		
PWR	POWER		
RCP	REFLECTED CEILING PLANS		
RE	RELOCATE EXISTING		
RIG	RIGID GALVANIZED STEEL		
RM	ROOM		
SCIR	SHORT CIRCUIT INTERRUPTING RATING		
SCHS	SCHEDULE		
SFL	SUB FEED LUGS		
SH	SHEET		
SPC	SPACE		
SPD	SURGE PROTECTION DEVICE		
SPEC	SPECIFICATION		
STD	SHORT TIME DELAY		
SWBD	SWITCHBOARD		
SWGR	SWITCHGEAR		
SES	SERVICE ENTRANCE SWITCHGEAR		
TC	TERMINAL CABINET		
TERM	TERMINAL		
TEL	TELEPHONE		
THD	TOTAL HARMONIC DISTORTION		
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION		
TYP	TYPICAL		
UG	UNDERGROUND		
USS	UNIT SUBSTATION		
V	VOLT		
VA	VOLT-AMPS		
VM	VOLTMETER		
W	WATT		

**ABBREVIATIONS**

A	AMPERE	MECH	MECHANICAL
AF	AMPERE FRAME	MFS	MAIN FUSED SWITCH
AFF	ABOVE FINISH FLOOR	MIN	MINIMUM
AIC	AMPERE INTERRUPTING CAPACITY	MLO	MOUNTED
AW	AMMETER	MTD	MEDIUM VOLTAGE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	N	NEW
AT	AMPERE TRIP	N/A	NOT APPLICABLE
ATS	AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED
AWG	AMERICAN WIRE GAUGE	NEC	NATIONAL ELECTRICAL CODE
BKR	CIRCUIT BREAKER	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
C	CONDUIT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CAT	CATALOG	NIP	NOT IN CONTRACT
CKT	CIRCUIT	NO	NORMALLY OPEN
CLG	CEILING	NTS	NOT TO SCALE
CT	CABLE TRAY / CURRENT TRANSFORMER	OC	ON CENTER
CU	COPPER	OCPP	OVERCURRENT PROTECTIVE DEVICE
DIA	DIAMETER	OD	OUTSIDE DIAMETER
DIV	DIVISION	OH	OVERHEAD
DN	DOWN	P	POLE
DWG	DRAWING	PB	PULLBOX/PUSHBUTTON
EM	EMERGENCY	PNL	PANELBOARD
E	EXISTING	PT	POTENTIAL TRANSFORMER
EA	EXISTING TO REMAIN	PVC	POLYVINYL CHLORIDE
EA	EACH	PWR	POWER
EMT	ELECTRICAL METALLIC TUBING	RCP	REFLECTED CEILING PLANS
EQUIP	EQUIPMENT	RE	RELOCATE EXISTING
ETA	EXISTING TO BE ABANDONED	REC	RECEPTACLE
ERL	EXISTING TO BE RELOCATED	RIG	RIGID GALVANIZED STEEL
EX	EXISTING TO BE REMOVED	RM	ROOM
FLR	FLOOR	SCIR	SHORT CIRCUIT INTERRUPTING RATING
G	GROUND	SCHS	SCHEDULE
GA	GAUGE	SFL	SUB FEED LUGS
GEC	GROUND ELECTRODE CONDUCTOR	SH	SHEET
GEN	GENERATOR	SPC	SPACE
GFCI	GROUND FAULT CIRCUIT INTERRUPTOR	SPD	SURGE PROTECTION DEVICE
GFI	GROUND FAULT INTERRUPTING SPECIFICATION	SPEC	SPECIFICATION
GND	GROUND	STD	SHORT TIME DELAY
HP	HORSEPOWER	SWBD	SWITCHBOARD
HKBP	HOUSEKEEPING	SWGR	SWITCHGEAR
HTR	HEATER	SES	SERVICE ENTRANCE SWITCHGEAR
ID	INSIDE DIAMETER	TC	TERMINAL CABINET
IMC	INTERMEDIATE METAL CONDUIT	TERM	TERMINAL
JB	JUNCTION BOX	TEL	TELEPHONE
KV	KILOVOLT	THD	TOTAL HARMONIC DISTORTION
KVA	KILOVOLT AMPERE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
KW	KILOWATT	TYP	TYPICAL
KWH	KILOWATT HOUR	UG	UNDERGROUND
LA	LIGHTNING ARRESTER	USS	UNIT SUBSTATION
LD	LONG TIME DELAY	V	VOLT
LTG	LIGHTING	VA	VOLT-AMPS
MAX	MAXIMUM	VM	VOLTMETER
MC	METAL CLAD CABLE	W	WATT
MCB	MAIN CIRCUIT BREAKER	<b>GENERAL NOTES</b>	
MCC	MOTOR CONTROL CENTER	1. VERIFY EXACT LOCATION OF CONNECTION POINTS PRIOR TO CONNECTION.	
MCP	MOTOR PROTECTOR	2. THIS PROJECT INVOLVES WORKING IN AREAS WITH LARGE AMOUNTS OF FACILITY INFRASTRUCTURE, BURIED OR OTHERWISE. CONTRACTOR SHALL EXERCISE EXTREME CARE PRIOR TO COMMENCING ANY DIGGING, DEMOLITION OR NEW WORK.	
MDP	MAIN DISTRIBUTION PANELBOARD	3. PROVIDE GROUNDING PER NEC. PROVIDE GREEN EQUIPMENT GROUNDING CONDUCTOR IN ALL BRANCH AND FEEDER CIRCUITS SIZED PER NEC.	
<b>ABBREVIATIONS</b>		4. CONDUIT SHALL BE CONTINUOUS AND COMPLETE BETWEEN PANELS, JUNCTION, OUTLET, PULL AND FITTURE BOXES. IT SHALL BE KEPT CLEAN AND UNOBSTRUCTED INSIDE WITH ENDS FREE OF BURRS OR OTHER PROJECTIONS WHICH WOULD DAMAGE OR IMPEDE PULLING OF WIRE. ALL CONDUIT SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO THE BUILDING LINES. ALL CONDUIT SHALL BE ROUTED CONCEALED IN FINISHED AREAS EXCEPT WHERE OTHERWISE NOTED.	
MECH	MECHANICAL	5. UNLESS OTHERWISE NOTED, ALL WIRES AND CABLES SHALL BE CONTINUOUS WITHOUT SPLICES OR TAPS IN CONDUIT RUNS. ALL WIRING SHALL BE IN CONDUIT OR AS NOTED. ALL SPLICES SHALL BE MADE IN OUTLET BOXES, PULL BOXES OR JUNCTION BOXES, AT ALL JOINTS, CONDUCTORS SHALL BE SPLICED OR JOINED AS TO BE MECHANICALLY AND ELECTRICALLY SECURE.	
MFS	MAIN FUSED SWITCH	6. IDENTIFICATION OF NEUTRAL, GROUNDING OF CIRCUITS, NUMBER OF WIRES IN CONDUIT SHALL COMPLY IN ALL RESPECTS WITH THE REQUIREMENTS OF THE NEC.	
MIN	MINIMUM	7. WIRE SHALL NOT BE DRAWN INTO CONDUIT UNTIL ALL WORK WHICH COULD CAUSE INJURY TO THE CONDUCTORS IS COMPLETED.	
MLO	MOUNTED	8. ALL MATERIAL SHALL CONFORM TO NEMA, ANSI AND U.S. STANDARDS, WHICHEVER APPLIES AND SHALL BEAR THE INSPECTION LABEL OF UNDERWRITER LABORATORIES, INC.	
MTD	MEDIUM VOLTAGE	9. ALL BOXES AND ENCLOSURES SHALL BE SET PLUMB, SQUARE AND SECURELY FASTENED. BOXES IN FINISHED WALLS SHALL BE FLUSH WITH FINISH SURFACE. ALL PULL AND JUNCTION BOXES SHALL BE SIZED PER NEC ARTICLE 314.	
N	NEW	10. TEMPORARY SHUTDOWNS SHALL BE SCHEDULED WITH CONTRACTING OFFICER THREE (3) WEEKS IN ADVANCE SO AS NOT TO INTERFERE WITH NORMAL DAYTIME OPERATION AND AT NO ADDITIONAL COST.	
N/A	NOT APPLICABLE	11. PROVIDE UL LISTED FIRE RATED SEALS FOR ALL RACEWAY PENETRATIONS THROUGH FIRE RATED WALLS, SLABS, AND CEILINGS. ALL PROPOSED FIRE STOPPING MATERIAL SHALL BE APPROVED BY THE LOCAL FIRE INSPECTOR AND CONTRACTING OFFICER PRIOR TO INSTALLATION.	
NC	NORMALLY CLOSED	12. PROVIDE GROUNDING AND BONDING OF ALL METAL RACEWAYS AS REQUIRED BY NEC.	
NEC	NATIONAL ELECTRICAL CODE	13. PROVIDE NEW PRINTED DIRECTORIES FOR ALL PANELS INSTALLED OR MODIFIED UNDER THIS CONTRACT.	
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	14. ALL ELECTRICAL WORK SHALL BE IN STRICT COMPLIANCE WITH THE CURRENT EDITION OF THE NEC AS ADOPTED BY THE LOCAL JURISDICTION INCLUDING ANY LOCAL AMENDMENTS, ORDINANCES, AND INTERPRETATIONS. ELECTRICAL WORK SHALL ALSO COMPLY WITH ANY APPLICABLE FEDERAL AND STATE REGULATIONS.	
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	15. COORDINATE INSTALLATION OF CONDUIT WITH OTHER TRADES AND EQUIPMENT SUPPLIERS AS REQUIRED PRIOR TO ROUGH-IN.	
NIP	NOT IN CONTRACT	16. PROVIDE AND MAINTAIN ELECTRICAL SAFETY AND WORKING CLEARANCES IN FRONT OF AND AROUND ALL ELECTRICAL PANELS AND DISTRIBUTION EQUIPMENT IN ACCORDANCE WITH NEC.	
NO	NORMALLY OPEN	17. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND CORE DRILLING ALL PENETRATIONS THROUGH FLOORS, WALLS, ETC.	
NTS	NOT TO SCALE	18. IT IS NOT INTENDED THAT THE PLANS INDICATE ALL CONDUIT ROUTES, PULL BOXES, ETC. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ACTUAL CONDUIT ROUTING, QUANTITY, AND LOCATION OF PULL BOXES WITHIN ACCESSIBLE LOCATIONS. PROVIDE SCREW-COVER PULL BOXES IN CONDUIT RUNS AS REQUIRED TO LIMIT NUMBER OF BEND TO NO MORE THAN THREE (3) OR 270 TOTAL. SIZE PULL BOXES IN ACCORDANCE WITH NEC. DOCUMENT ON RECORD DRAWINGS THE SIZE AND LOCATION OF PULL BOXES USED IN FEEDER CONDUIT RUNS.	
OC	ON CENTER	19. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION ABOUT QUALITY AND GENERAL INSTALLATION REQUIREMENTS OF ELECTRICAL CONSTRUCTION MATERIALS, ITEMS, AND DEVICES.	
OCPP	OVERCURRENT PROTECTIVE DEVICE	20. PROVIDE MISCELLANEOUS STEEL AS REQUIRE TO SUPPORT ELECTRICAL RACEWAYS AND OTHER USE FRAMING SYSTEMS AS MANUFACTURED BY UNISTRUT, B-LINE, OR APPROVED EQUIVALENT.	
OD	OUTSIDE DIAMETER	21. CONDUIT RUNS ARE SHOWN FOR REFERENCE AND BIDDING PURPOSES ONLY. CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS AND DETERMINE SHORTEST AND LEAST DISRUPTIVE ROUTE FOR CONDUIT RUNS. COORDINATE WITH OTHER TRADES AND CONFIRM ROUTE SELECTION WITH OWNER PRIOR TO BID. ANY DEVIATIONS FROM DRAWINGS SHALL BE SHOWN IN DETAIL ON AS-BUILT DRAWINGS BY CONTRACTOR.	
OH	OVERHEAD	22. SECURE AND PAY ALL PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK.	
P	POLE	23. FOR QUALITY ASSURANCE, ALL EQUIPMENT SHALL BE UL LISTED AND APPROVED. ALSO, PERFORM WORK IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CONTRACTOR ASSOCIATION (NECA) "STANDARD OF INSTALLATION"	
PB	PULLBOX/PUSHBUTTON	24. "FURNISH" SHALL BE DEFINED AS TO SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION AND SIMILAR OPERATIONS. "INSTALL" SHALL BE DEFINED AS WORK WHICH INCLUDES THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION AND SIMILAR OPERATIONS. "PROVIDE" SHALL BE DEFINED AS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE. "WIRING" SHALL BE DEFINED AS TO BE ALL INCLUSIVE OF RACEWAYS, CONDUCTORS, JUNCTION BOXES, SAFETY SWITCHES AND MAKING FINAL CONNECTIONS.	
PNL	PANELBOARD	25. CAREFULLY EXAMINE THE SITE AND COMPARE THE DRAWINGS WITH EXISTING ELECTRICAL INSTALLATIONS. BE THOROUGHLY AWARE OF ALL EXISTING CONDITIONS WITHIN THE SCOPE OF HIS BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR SHALL HAVE DEEMED TO HAVE MADE SUCH EXAMINATION AND TO HAVE ACCEPTED SUCH CONDITIONS AND TO HAVE MADE ALLOWANCE THEREFORE IN PREPARING HIS BID.	
PT	POTENTIAL TRANSFORMER	26. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. SIZE AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY ON THE DRAWINGS. FINAL LOCATIONS OF OUTLETS AND EQUIPMENT SHALL BE AS SHOWN IN ENLARGED DETAILS OR AS APPROVED BY THE ARCHITECT.	
PVC	POLYVINYL CHLORIDE	27. THE PLANS DO NOT INDICATE ALL THE NECESSARY BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK TO CONFORM TO THE STRUCTURE, MAINTAIN HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.	
PWR	POWER	28. VERIFY LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND INTERIOR DETAILS AND FINISHES. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS, AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE, AND CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.	
RCP	REFLECTED CEILING PLANS	29. PROVIDE NEMA RATED, ACCESSIBLE, SCREW COVER, PULL BOXES IN CONDUIT RUNS LONGER THAN 100 FEET AND AS REQUIRED TO LIMIT NUMBER OF BENDS TO 20 DEGREES TOTAL. SIZE PULL BOXES IN ACCORDANCE WITH NEC ARTICLE 314.	
RE	RELOCATE EXISTING	30. MOUNT EQUIPMENT SAFETY SWITCHES DIRECTLY ON UNIT SERVED WHERE REQUIRED. SWITCHES SHALL BE ACCESSIBLE AND MTD, SUCH THAT DOOR HINGE OPEN AT LEAST 90 DEGREES WITHOUT OBSTRUCTION.	
REC	RECEPTACLE	31. GROUNDING OF THE ELECTRICAL SYSTEM SHALL BE BY MEANS OF AN INSULATED GROUNDING CONDUCTOR INSTALLED WITH FEEDER CONDUCTORS IN ALL CONDUITS WHETHER OR NOT INDICATED ON DRAWINGS. GROUNDING CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH NEC TABLE 250.122. PROVIDE GROUNDING CONDUCTOR IN ALL TELEPHONE AND CAVY SERVICE CONDUITS.	
RIG	RIGID GALVANIZED STEEL	32. PROVIDE ALL CUTTING AND PATCHING WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE NEW ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP, AND FINISH AND SHALL ACCURATELY MATCH ALL ADJACENT WORK.	
RM	ROOM	33. PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO	