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# NEW SMITH MIDDLE SCHOOL

## Troy School District - Troy, Michigan 48085

### 2022 BOND PROGRAM - BID BACKAGE 03C

### Project Number 22102

### PRE-PURCHASE PACKAGE

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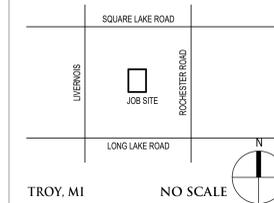
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**LIST OF DRAWINGS**

**GENERAL INFORMATION**  
 TS.1-03C Cover Sheet - Bid Package 03C  
 TG.1 General Information

**ELECTRICAL**  
 EO.1 Electrical Standards and Drawing Index  
 ES.1 One Line Diagram

**PROJECT DATA:**  
**LOCATION MAP:**



TROY, MI

NO SCALE

ADDRESS: NEW SMITH MIDDLE SCHOOL  
 5835 Donaldson  
 Troy, Michigan 48085

**BUILDING:**

BUILDING AREA(S) = NOT APPLICABLE

**CODE:**

- GOVERNING CODES:**
- 2016 SCHOOL FIRE SAFETY RULES (2012 Life Safety Code, plus amendments)
  - 2015 MICHIGAN BUILDING CODE
  - 2015 REHABILITATION CODE FOR EXISTING BUILDINGS
  - 2018 MICHIGAN PLUMBING CODE
  - 2015 MICHIGAN MECHANICAL CODE
  - 2015 MICHIGAN UNIFORM ENERGY CODE (ANSI/ASHRAE/IESNA Standard 90.1-2013)
  - 2017 MICHIGAN ELECTRICAL CODE (2017 NEC, plus Part 8 Rules)
  - 2016 MICHIGAN ELEVATOR RULES (ASME A17.1-2010, ASME A18.1-2011)
  - MICHIGAN BARRIER FREE CODE (Michigan Building Code 2015 and ICC A117.1-2009)
  - 2015 MICHIGAN BOILER CODE RULES (ASME Boiler and Pressure Vessel Code, 2019 edition) (National Board Inspection Code [NBIC], 2019 edition)

USE GROUP CLASSIFICATION: **"E" EDUCATION**

CONSTRUCTION TYPE: **TYPE II (000) LSC**  
**TYPE II-B (MBC)**

**ISSUE DATES**

11-14-2023	PRE-PURCHASE PACKAGE
DATE:	ISSUED FOR:

**LICENSEE'S STATEMENT:**

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**REGISTRATION SEALS**

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**PROJECT TITLE**  
**NEW SMITH MIDDLE SCHOOL**

**PROJECT NO.**  
**22102**  
**DRAWING NO.**  
**TS.1-03C**



**ELECTRICAL SYMBOL LIST** (NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
X (NL)	X DENOTES FIXTURE TYPE (NL INDICATES NIGHT LIGHT)	TWC	TWO-WAY COMMUNICATION SYSTEM CALL STATION	CP	CONTROL PANEL	FC	FIRE ALARM CONTROL PANEL
[ ]	LIGHTING FIXTURE	TWCD	TWO-WAY COMMUNICATION SYSTEM AUTO DIALER	MD	MOTOR	SD	SMOKE DETECTOR
[ ]	DIRECT/INDIRECT LIGHTING FIXTURE	TWCA	TWO-WAY COMMUNICATION SYSTEM ANNUNCIATOR & COMMUNICATION PANEL	VFC	VARIABLE FREQUENCY CONTROLLER	DD	DUCT SMOKE DETECTOR
[ ]	FILL DENOTES EMERGENCY LIGHTING FIXTURE	TWCP	TWO-WAY COMMUNICATION SYSTEM POWER SUPPLY WITH BATTERY BACK-UP	MC	MANUAL CONTROLLER	CO	CARBON MONOXIDE DETECTOR
[ ]	LIGHTING FIXTURE	TWCDP	TWO-WAY COMMUNICATION SYSTEM AUTO DIALER POWER SUPPLY WITH BATTERY BACK-UP	MP	MAGNETIC CONTROLLER	RT	REMOTE TEST STATION (FOR DUCT DETECTOR)
[ ]	WALL MOUNTED LIGHTING FIXTURE	RGP	REMOTE GENERATOR ANNUNCIATOR PANEL	CR	COMBINATION MAGNETIC CONTROLLER	TD	THERMAL DETECTOR
[ ]	LIGHTING FIXTURE	ATS	AUTOMATIC TRANSFER SWITCH	DS	NON-FUSIBLE DISCONNECT SWITCH	BD	PROJECTED BEAM DETECTOR
[ ]	LIGHTING FIXTURE	UPS	UNINTERRUPTIBLE POWER SUPPLY	FD	FUSIBLE DISCONNECT SWITCH	EB	FIRE ALARM BELL
[ ]	PENDANT LIGHTING FIXTURE	CSX	LOW VOLTAGE CONTROL STATION "X" INDICATES TYPE	REX	REQUEST TO EXIT STATION	FA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	WALL SCONCE	[ ]	SINGLE / DUPLEX RECEPTACLE OUTLET "X" INDICATES TYPE	PP	AUTOMATIC DOOR PUSH PAD OPERATOR	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	LIGHTING TRACK	[ ]	SINGLE / DUPLEX RECEPTACLE OUTLET CONTROLLED BY AUTOMATIC CONTROL DEVICE / SYSTEM	DA	DOOR ACTUATOR	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	TRACK LIGHTING FIXTURE	[ ]	QUAD RECEPTACLE OUTLET	AC	ACCESS CONTROL STATION	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	POLE MOUNTED LIGHTING FIXTURE	[ ]	ABOVE COUNTER DUPLEX RECEPTACLE OUTLET (SIMILAR FOR TAMPER RESISTANT, CONTROLLED, QUADS, EMERGENCY, UPS, USB, AND GFCI RECEPTACLE OUTLETS)	ACCP	ACCESS CONTROL CONTROL PANEL	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	POLE MOUNTED LIGHTING FIXTURE - POST TOP	[ ]	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE OUTLET	ACPS	ACCESS CONTROL POWER SUPPLY	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	BOLLARD LIGHTING FIXTURE	[ ]	DEAD FRONT GROUND FAULT CIRCUIT INTERRUPTER	[ ]	CIRCUIT BREAKER	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	EMERGENCY LIGHTING UNIT	[ ]	DUPLEX EMERGENCY RECEPTACLE OUTLET	[ ]	DRAWOUT CIRCUIT BREAKER MANUALLY OPERATED	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)	[ ]	DUPLEX TAMPER RESISTANT RECEPTACLE OUTLET	[ ]	DRAWOUT CIRCUIT BREAKER ELECTRICALLY OPERATED	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)	[ ]	QUAD TAMPER RESISTANT RECEPTACLE OUTLET	[ ]	SWITCH	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	EXIT LIGHTING FIXTURE - WALL MOUNTED	[ ]	DUPLEX UPS RECEPTACLE OUTLET	[ ]	AUTOMATIC OR MANUAL TRANSFER SWITCH	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	EXIT/EMERGENCY LIGHTING COMBO	[ ]	DUPLEX RECEPTACLE OUTLET WITH 2 USB PORTS	[ ]	FUSE	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	AUTOMATIC LOAD CONTROL RELAY	[ ]	USB 4 PORT CHARGING STATION	[ ]	TRANSFORMER	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	BRANCH CIRCUIT EMERGENCY LIGHTING TRANSFER SWITCH	[ ]	CEILING MOUNTED DUPLEX / QUAD RECEPTACLE OUTLET	[ ]	CURRENT TRANSFORMER	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	LIGHTING CONTROL DEVICE - REFER TO LIGHTING CONTROL SCHEDULE	[ ]	MULTI-OUTLET SURFACE RACEWAY	[ ]	POTENTIAL TRANSFORMER	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	LIGHTING CONTROL DEVICE - REFER TO LIGHTING CONTROL SCHEDULE	[ ]	POWER POLE	[ ]	LIGHTING ARRESTOR	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	ROOM CONTROL DESIGNATION - REFER TO LIGHTING CONTROL SCHEDULE	[ ]	WALL / CEILING MOUNTED SPECIAL RECEPTACLE OUTLET - REFER TO ELECTRICAL STANDARD SCHEDULES	[ ]	PANELBOARD "X" INDICATES PANELBOARD NAME	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	SINGLE POLE TOGGLE SWITCH	[ ]	MULTI-SERVICE DROP SEE ELECTRICAL DETAILS AND DIAGRAMS SHEET "X" INDICATES TYPE	[ ]	GROUND	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	TWO POLE TOGGLE SWITCH	[ ]	POKE-THROUGH ASSEMBLY "X" INDICATES TYPE	[ ]	STRESS CONE TERMINATION	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	3 WAY TOGGLE SWITCH	[ ]	FLOOR SERVICE FITTING "X" INDICATES TYPE	[ ]	SECURITY KEY INTERLOCK	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	4 WAY TOGGLE SWITCH	[ ]	ACCESS FLOOR SERVICE FITTING "X" INDICATES TYPE	[ ]	ENGINE GENERATOR	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	KEY OPERATED SWITCH	[ ]	ACCESS FLOOR SERVICE FITTING "X" INDICATES TYPE	[ ]	UTILITY METER	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	3 WAY KEY OPERATED SWITCH	[ ]	CORD REEL "X" INDICATES TYPE	[ ]	ELECTRONIC METERING UNIT	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	4 WAY KEY OPERATED SWITCH	[ ]	DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	[ ]	AMMETER	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	DIMMER SWITCH	[ ]	3-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	[ ]	VOLTMETER	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	DIMMER OCCUPANCY SENSOR SWITCH	[ ]	4-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	[ ]	AMMETER SWITCH	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	LOW VOLTAGE DIMMER SWITCH	[ ]	DIGITAL TIME SWITCH	[ ]	VOLTMETER SWITCH	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	3 WAY DIMMER SWITCH	[ ]	ILLUMINATED TOGGLE SWITCH FOR CONTROL OF LIGHTING ON CRITICAL POWER-ILLUMINATED WHEN SWITCH IS IN "OFF" POSITION	[ ]	SURGE PROTECTIVE DEVICE	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	PILOT SWITCH	[ ]	LOW VOLTAGE SWITCH	[ ]	CONTROL RELAY	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]		[ ]	OCCUPANCY SENSOR	[ ]	PHASE ROTATION MONITOR	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]		[ ]	OCCUPANCY SENSOR - REFER TO ELECTRICAL STANDARD SCHEDULES - "X" INDICATES TYPE	[ ]	CAMLOK - MALE	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]		[ ]	OCCUPANCY SENSOR - REFER TO ELECTRICAL STANDARD SCHEDULES - "X" INDICATES TYPE	[ ]	CAMLOK - FEMALE	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]		[ ]	OCCUPANCY SENSOR - REFER TO ELECTRICAL STANDARD SCHEDULES - "X" INDICATES TYPE	[ ]	TIME DELAY RELAY	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]		[ ]	OCCUPANCY SENSOR - REFER TO ELECTRICAL STANDARD SCHEDULES - "X" INDICATES TYPE	[ ]	THERMAL OVERLOAD RELAY	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]		[ ]	OCCUPANCY SENSOR - REFER TO ELECTRICAL STANDARD SCHEDULES - "X" INDICATES TYPE	[ ]	NORMALLY OPEN CONTACTS	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]		[ ]	OCCUPANCY SENSOR - REFER TO ELECTRICAL STANDARD SCHEDULES - "X" INDICATES TYPE	[ ]	NORMALLY CLOSED CONTACTS	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]		[ ]	OCCUPANCY SENSOR - REFER TO ELECTRICAL STANDARD SCHEDULES - "X" INDICATES TYPE	[ ]	N.O. PUSH BUTTON SINGLE CIRCUIT	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]		[ ]	OCCUPANCY SENSOR - REFER TO ELECTRICAL STANDARD SCHEDULES - "X" INDICATES TYPE	[ ]	N.C. PUSH BUTTON SINGLE CIRCUIT	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]		[ ]	OCCUPANCY SENSOR - REFER TO ELECTRICAL STANDARD SCHEDULES - "X" INDICATES TYPE	[ ]	CABLE VAULT "X" INDICATES TYPE	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]		[ ]	OCCUPANCY SENSOR - REFER TO ELECTRICAL STANDARD SCHEDULES - "X" INDICATES TYPE	[ ]	DC FAST CHARGER - STANDALONE	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]		[ ]	OCCUPANCY SENSOR - REFER TO ELECTRICAL STANDARD SCHEDULES - "X" INDICATES TYPE	[ ]	DC FAST CHARGER - POWER MODULE	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]		[ ]	OCCUPANCY SENSOR - REFER TO ELECTRICAL STANDARD SCHEDULES - "X" INDICATES TYPE	[ ]	DC FAST CHARGER - DISPENSER	FAA	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "X" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[ ]	SECURITY CAMERA	[ ]	EMERGENCY ENERGY REDUCTION	[ ]	JUNCTION BOX
[ ]	MOTION DETECTOR	[ ]	ARC ENERGY REDUCTION	[ ]	POLE PUSHBUTTON STATION
[ ]	SECURITY KEY SWITCH	[ ]	ARC FRAME (BREAKER RATING)	[ ]	PHASE
[ ]	DOOR CONTACT	[ ]	ARC FAULT CIRCUIT INTERRUPTER	[ ]	POTENTIAL TRANSFORMER
[ ]	KEY PAD	[ ]	ABOVE FINISH FLOOR	[ ]	POWER DISTRIBUTION PANEL
[ ]	CARD READER	[ ]	AMPS INTERRUPTING CAPACITY	[ ]	RECEPTACLE DISTRIBUTION PANEL
[ ]	DURESS PUSH BUTTON STATION	[ ]	AUDIENCE LEFT	[ ]	RECEPTACLE PANEL
[ ]	DELAYED EGRESS	[ ]	AUDIENCE RIGHT	[ ]	RIGID STEEL CONDUIT
[ ]	REQUEST TO EXIT STATION	[ ]	AUTOMATIC LOAD CONTROL RELAY	[ ]	SHORT CIRCUIT CURRENT RATING
[ ]	AUTOMATIC DOOR PUSH PAD OPERATOR	[ ]	AUTOMATIC TRANSFER SWITCH	[ ]	SCHEDULE
[ ]	DOOR OPERATOR	[ ]	AUXILIARY	[ ]	SHUNT TRIP
[ ]	DOOR ACTUATOR	[ ]	AMPERS TRIP (BREAKER SETTING)	[ ]	SWITCH
[ ]	ACCESS CONTROL STATION	[ ]	AUTOMATIC TRANSFER SWITCH	[ ]	SWITCHBOARD
[ ]	ACCESS CONTROL CONTROL PANEL	[ ]	AMMETER	[ ]	SWGR
[ ]	ACCESS CONTROL POWER SUPPLY	[ ]	VOLTMETER	[ ]	TB
[ ]	CIRCUIT BREAKER	[ ]	AMMETER SWITCH	[ ]	TELECOM
[ ]	DRAWOUT CIRCUIT BREAKER MANUALLY OPERATED	[ ]	VOLTMETER SWITCH	[ ]	TERMINAL BOX
[ ]	DRAWOUT CIRCUIT BREAKER ELECTRICALLY OPERATED	[ ]	SURGE PROTECTIVE DEVICE	[ ]	TELECOMMUNICATIONS
[ ]	SWITCH	[ ]	CONTROL RELAY	[ ]	TAMPER RESISTANT
[ ]	AUTOMATIC OR MANUAL TRANSFER SWITCH	[ ]	PHASE ROTATION MONITOR	[ ]	TELEPHONE TERMINAL BACKBOARD
[ ]	FUSE	[ ]	CAMLOK - MALE	[ ]	TYPICAL
[ ]	ADDRESSABLE CONTROL MODULE	[ ]	CAMLOK - FEMALE	[ ]	U.O.N.
[ ]	TAMPER SWITCH	[ ]	TIME DELAY RELAY	[ ]	UNLESS OTHERWISE NOTED
[ ]	FLOW SWITCH	[ ]	THERMAL OVERLOAD RELAY	[ ]	UPSTAGE
[ ]	MAGNETIC DOOR RELEASE	[ ]	NORMALLY OPEN CONTACTS	[ ]	V
[ ]	BRANCH CIRCUIT PANEL BOARD	[ ]	NORMALLY CLOSED CONTACTS	[ ]	W
[ ]	LOAD CENTER	[ ]	N.O. PUSH BUTTON SINGLE CIRCUIT	[ ]	WAP
[ ]	MOTOR CONTROL CENTER	[ ]	N.C. PUSH BUTTON SINGLE CIRCUIT	[ ]	WG
[ ]	TRANSFORMER	[ ]	CABLE VAULT "X" INDICATES TYPE	[ ]	WP
[ ]	DISTRIBUTION PANEL	[ ]	DC FAST CHARGER - STANDALONE	[ ]	WR
[ ]	RECEPTACLE DISTRIBUTION PANEL	[ ]	DC FAST CHARGER - POWER MODULE	[ ]	X
[ ]	RECEPTACLE PANEL	[ ]	DC FAST CHARGER - DISPENSER	[ ]	XMR
[ ]	RIGID STEEL CONDUIT	[ ]	EXISTING	[ ]	XP
[ ]	SHORT CIRCUIT CURRENT RATING	[ ]	EXISTING	[ ]	XR
[ ]	SCHEDULE	[ ]	EXISTING	[ ]	(E)
[ ]	SHUNT TRIP	[ ]	EXISTING	[ ]	(R)
[ ]	SWITCH	[ ]	EXISTING	[ ]	
[ ]	SWITCHBOARD	[ ]	EXISTING	[ ]	
[ ]	SWGR	[ ]	EXISTING	[ ]	
[ ]	TB	[ ]	EXISTING	[ ]	
[ ]	TELECOM	[ ]	EXISTING	[ ]	
[ ]	TERMINAL BOX	[ ]	EXISTING	[ ]	
[ ]	TELECOMMUNICATIONS	[ ]	EXISTING	[ ]	
[ ]	TAMPER RESISTANT	[ ]	EXISTING	[ ]	
[ ]	TELEPHONE TERMINAL BACKBOARD	[ ]	EXISTING	[ ]	
[ ]	TYPICAL	[ ]	EXISTING	[ ]	
[ ]	U.O.N.	[ ]	EXISTING	[ ]	
[ ]	UNLESS OTHERWISE NOTED	[ ]	EXISTING	[ ]	
[ ]	UPSTAGE	[ ]	EXISTING	[ ]	
[ ]	V	[ ]	EXISTING	[ ]	
[ ]	W	[ ]	EXISTING	[ ]	
[ ]	WAP	[ ]	EXISTING	[ ]	
[ ]	WG	[ ]	EXISTING	[ ]	
[ ]	WP	[ ]	EXISTING	[ ]	
[ ]	WR	[ ]	EXISTING	[ ]	
[ ]	X	[ ]	EXISTING	[ ]	
[ ]	XMR	[ ]	EXISTING	[ ]	
[ ]	XP	[ ]	EXISTING	[ ]	
[ ]	XR	[ ]	EXISTING	[ ]	
[ ]	(E)	[ ]	EXISTING	[ ]	
[ ]	(R)	[ ]	EXISTING	[ ]	

**ELECTRICAL ABBREVIATION LIST**

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A	AMPERES	JB	JUNCTION BOX	P	POLE
AER	ARC ENERGY REDUCTION	KA	THOUSAND AMP	PB	PUSHBUTTON STATION
AF	AMPERS FRAME (BREAKER RATING)	KV	KILOVOLT	PH	PHASE
AFCI	ARC FAULT CIRCUIT INTERRUPTER	KVA	KILOVOLT - AMPERES	PT	POTENTIAL TRANSFORMER
A.F.F.	ABOVE FINISH FLOOR	KW	KILOWATT	PDP	POWER DISTRIBUTION PANEL
AIC	AMPS INTERRUPTING CAPACITY	KWH	KILOWATT - HOURS	RECEPT.	RECEPTACLE
AL	AUDIENCE LEFT	LA	LIGHTING ARRESTOR	REP	RECEPTACLE DISTRIBUTION PANEL
ALCR	AUTOMATIC LOAD CONTROL RELAY	LP	LIGHTING PANEL	RP	RECEPTACLE PANEL
AR	AUDIENCE RIGHT	LDP	LIGHTING DISTRIBUTION PANEL	RSC	RIGID STEEL CONDUIT
ATS	AMPERS TRIP (BREAKER SETTING)	MAX	MAXIMUM	SCCR	SHORT CIRCUIT CURRENT RATING
AUX	AUXILIARY	MCA	MINIMUM CIRCUIT AMPACITY	SPD	SURGE PROTECTION DEVICE
BELTS	BRANCH CIRCUIT EMERGENCY LIGHTING TRANSFER SWITCH	MCB	MAIN CIRCUIT BREAKER	ST	SHUNT TRIP
BKR	BREAKER	MCC	MOTOR CONTROL CENTER	SW	SWITCH
BPS	BOLTED PRESSURE SWITCH	MDD	MAIN DISTRIBUTION PANEL	SWB	SWITCHBOARD
CB	CONDUIT	MECH	MECHANICAL	SWGR	SWITCHGEAR
CKT	CIRCUIT BREAKER	MIN	MINIMUM	TB	TERMINAL BOX
CT	CURRENT TRANSFORMER	MISC.	MISCELLANEOUS	MLO	TELECOMMUNICATIONS
DEMO	DEMOLITION	MLO	MAIN LUGS ONLY	MOP	MAXIMUM OVERCURRENT PROTECTION
DM	DIMENSION	MTP	MOUNTED	MTD	MOUNTING
DISC	DISCONNECT	MTG	MOUNTING	MTR	MOTOR
DP	DISTRIBUTION PANEL	N	NEUTRAL	N	NEUTRAL
DS	DOWNSTAGE DRAWING	NC	NORMALLY CLOSED	NEC	NATIONAL ELECTRICAL CODE
DWG	DRAWING	NEC	NATIONAL ELECTRICAL CODE	NF	NON-FUSIBLE
EBU	EMERGENCY BATTERY UNIT	NIC	NOT IN CONTRACT	NL	NIGHT LIGHT
EC	ELECTRICAL CONTRACTOR	NO	NORMALLY OPEN	NTS	NOT TO SCALE
ECM	ELECTRICALLY COMMUTATED MOTOR	OC	ON CENTER	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
ELEC	ELECTRICAL	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	OFOI	OWNER FURNISHED, CONTRACTOR INSTALLED
EMERG	EMERGENCY	OFOI	OWNER FURNISHED, CONTRACTOR INSTALLED		
EMT	ELECTRICAL METALLIC TUBING				
ED	ELECTRICALLY OPERATED				
EPO	EMERGENCY POWER OFF				
EWC	ELECTRIC WATER COOLER				
EXIST	EXISTING				
FA	FIRE ALARM				
FLA	FULL LOAD AMPS				
FLR	FLOOR				
FOH	FRONT OF HOUSE				
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR				
FUSE	FUSE				
G/R/D/IEG	GROUND				
GFCI	GROUND FAULT CIRCUIT INTERRUPTER				
GFP	GROUND FAULT PROTECTION				
HOA	HAND-OFF-AUTO				
HP	HORSEPOWER				
HV	HIGH VOLTAGE				
HZ	HERTZ				
IG	ISOLATED GROUND				

**STANDARD METHODS OF NOTATION**

