

ELECTRICAL ABBREVIATIONS AND SYMBOLS

ABBREVIATIONS

A	AMPERE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AO	AUXILIARY, INSTANT-ON, QUARTZ SYSTEM
C	CONTACTOR/CONDUIT/COIL
CB	CIRCUIT BREAKER
CKT, CCT	CIRCUIT
DISC	DISCONNECT
EP	EXPLOSION PROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GRD	GROUND
GRS	GALVANIZED RIGID STEEL
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
J	JUNCTION BOX
KVA	KILOVOLT AMPERE
KW	KILOWATT
LCP	LOCAL CONTROL PANEL
LP	LIGHTING PANEL
MCC	MOTOR CONTROL CENTER
MFC	MANUFACTURER
MH	MANHOLE
NEC	NATIONAL ELECTRICAL CODE (ANSI/NFPA-70)
NEUT, N	NEUTRAL
NF	NON FUSED
OL	OVERLOAD RELAY
PC	PHOTOCELL
PP	POWER PANEL
PVC	POLY VINYL CHLORIDE
SW	SWITCH
V	VOLTS
WP	WEATHERPROOF
XFMR	TRANSFORMER

PLAN SYMBOLS

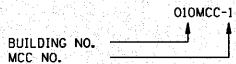
	FLUORESCENT FIXTURE - RECESSED (LETTER DENOTES TYPE)
	FLUORESCENT FIXTURE - SURFACE OR SUSPENDED (LETTER DENOTES TYPE)
	FLUORESCENT FIXTURE - WALL MOUNTED (LETTER DENOTES TYPE)
	INCANDESCENT OR HID FIXTURE - WALL MOUNTED (LETTER DENOTES TYPE)
	POLE MOUNTED FIXTURE (LETTER DENOTES TYPE)
	CEILING MOUNTED FIXTURE (LETTER DENOTES TYPE) (AO DENOTES AUXILIARY QUARTZ)
	EMERGENCY BATTERY LIGHT
	REMOTE HEAD FOR EMERGENCY BATTERY LIGHT
	EXIT LIGHT WITH INDICATING DIRECTIONAL ARROW
	SWITCH (SINGLE POLE, 2-POLE, 3-WAY, 4-WAY)
	MOMENTARY CONTACT SWITCH - CENTER OFF
	SWITCH / PILOT LIGHT
	DUPLEX GROUNDED RECEPTACLE - 120V
	EXPLOSIONPROOF SIMPLEX GROUNDED RECEPTACLE - 120V
	TELEPHONE OUTLET, WALL MOUNT WITH 3/4" CONDUIT TO TELEPHONE TERMINAL CABINET
	COMPUTER DATA OUTLET
	RECESSED CEILING SPEAKER
	VOLUME CONTROL
	WALL SPEAKER
	SMOKE DETECTOR
	FIRE ALARM SIGNAL
	FIRE ALARM SIGNAL AND STROBE
	FIRE ALARM PULL STATION
	HEAT DETECTOR
	FLOW SWITCH
	MOTION DETECTOR
	CONNECTION TO EQUIPMENT
	SPECIAL PURPOSE RECEPTACLE, NEMA TYPE AND AMPERE RATING AS INDICATED
	MANUAL STARTER WITH PILOT LIGHT
	THREE PHASE MAGNETIC STARTER
	THREE PHASE COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH

	SINGLE PHASE MAGNETIC STARTER
	NON-FUSED DISCONNECT SWITCH (NUMERAL INDICATES SWITCH RATING)
	FUSED DISCONNECT SWITCH - 3 POLE UNLESS OTHERWISE INDICATED (UPPER NUMERAL INDICATES SWITCH RATING) (LOWER NUMERAL INDICATES FUSE RATING)
	3-PHASE MANUAL MOTOR SWITCH
	LIGHTING PANEL
	TRANSFORMER
	POWER PANEL
	TERMINAL CABINET (ITC - INDICATES INSTRUMENTATION) (TTC - INDICATES TELEPHONE)
	MOTOR
	JUNCTION BOX
	HANDHOLE
	MANHOLE
	SURVEILLANCE CAMERA
	GROUND ROD
	CONDUIT STUB
	CONDUIT TURNING UP OR TO OBSERVER
	CONDUIT TURNING DOWN OR AWAY FROM OBSERVER
	FLEXIBLE CONDUIT CONNECTION
	HOMERUN CIRCUIT OR CONDUCTORS
	DIRECT BURIAL CABLE
	UNDERGROUND ELECTRICAL DUCT, CONCRETE ENCASED.
	ELECTRICAL DUCT ENCASED/ROUTED IN CONCRETE WALL, FLOOR, CEILING, OR SLAB

ONE-LINE SYMBOLS

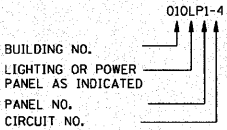
	MOLDED CASE CIRCUIT BREAKER (UPPER NUMERAL INDICATES FRAME SIZE) (LOWER NUMERAL INDICATES TRIP SETTING) (CL - INDICATES CURRENT LIMITING CIRCUIT BREAKER) (M - INDICATES MOTOR CIRCUIT PROTECTOR)
	MAGNETIC STARTER AND MOLDED CASE CIRCUIT BREAKER (FVNR - INDICATES FULL VOLTAGE NON-REVERSING) (RVNR - INDICATES REDUCED VOLTAGE NON-REVERSING) (2SPD - INDICATES TWO SPEED) (AUXILIARY CONTACTS - (2a TWO N.O.)1b ONE N.C.) (NUMERAL INDICATES NEMA SIZE)
	TRANSFORMER
	COMBINATION MAGNETIC STARTER WITH MOLDED CASE CIRCUIT BREAKER (FVNR - INDICATES FULL VOLTAGE NON-REVERSING) (RVNR - INDICATES REDUCED VOLTAGE NON-REVERSING) (2SPD - INDICATES TWO SPEED) (AUXILIARY CONTACTS - (2a TWO N.O.)1b ONE N.C.) (NUMERAL INDICATES NEMA SIZE)
	GROUND
	MOTOR (NUMERAL INDICATES HORSEPOWER)
	GENERATOR

MOTOR CONTROL CENTER



NOTE:  
1. THIS LIST OF ABBREVIATIONS SHOWN IS  
A STANDARD LIST. NOT ALL ABBREVIATIONS  
AND SYMBOLS ARE USED IN THESE CONTRACT  
DRAWINGS.

PANEL BOARDS



REVISIONS	
NAME	DATE