### DOMED CMADOLC

POWER SYMBOLS		
°)	CIRCUIT BREAKER	
Ī	GROUND CONNECTION	
LP1-2	HOME RUN TO PANEL (CKT. NO. AS SHOWN)	
uu M	TRANSFORMER	
⊱ <sub>cт</sub>	CURRENT TRANSFORMER	
$\rightarrow$ $\leftarrow$	POTENTIAL TRANSFORMER	
=	20 AMPERE, 120 VOLT DUPLEX RECEPTACLE, +18" AFF 20 AMPERE, 120 VOLT DUPLEX HOSPITAL	
<b>⊕</b> <b>⊕</b>	GRADE RECEPTACLE, +18" AFF  20 AMPERE. 120 VOLT DOUBLE DUPLEX	
₩ <del>-  </del>	RECEPTACLE, +18" AFF  20 AMPERE, 120 VOLT DOUBLE DUPLEX	
π	HOSPITAL GRADE RECEPTACLE, +18" AFF  20 AMPERE, 120 VOLT SINGLE	
<del>-</del>	RECEPTACLE  20 AMPERE, 120 VOLT DUPLEX	
<b>=</b>	HOSPITAL GRADE GFCI RECEPTACLE  20 AMPERE, 120 VOLT DOUBLE DUPLEX	
₩	HOSPITAL GRADE GFCI RECEPTACLE  20 AMPERE, 120 VOLT DUPLEX	
	GFCI RECEPTACLE, +18" AFF  OTHER POWER RECEPTACLE	
$\Theta_{xx}$	NEMA DESIGNATION AS NOTED	
(НР)	MOTOR	
J	JUNCTION BOX POWER POLE CONNECTION TO	
P T	MODULAR FURNITURE WHIP TRANSFORMER	
СВ	CIRCUIT BREAKER	
□ xx	SIZED AS NOTED  PANELBOARD	
	NORMAL POWER	
	PANELBOARD EMERGENCY POWER	
BD	BUS DUCT AMPERE RATING AS NOTED	
	FLOOR RECEPTACLE CONDUIT INSTALLED IN SLAB	
□ 200/3	UNFUSED SAFETY SWITCH, RATING AS NOTED POLES AMPERES	
3R FLXXAE	FUSED SAFETY SWITCH, RATING AS NOTED	
XXAT _ L	FRAMESIZE FUSE/TRIP NEMA RATING	
	MAGNETIC MOTOR STARTER, RATING AS NOTED	
M	MANUAL TOGGLE OPERATED MOTOR STARTER	
	ELECTRIC ACTUATED VALVE	
M	MOTOR CONTACTOR	
$\dashv\vdash$	CONTACT NORMALLY OPEN	
<del>-</del>	CONTACT NORMALLY CLOSED	
	SELECTOR SWITCH	

TEMPERATURE SWITCH

PILOT LIGHT

<u>LIGHTING SYMBOLS</u>		
O x	FLUORESCENT LIGHT FIXTURE	
X	FLUORESCENT LIGHT FIXTURE W/ EMERGENCY BATTERY BALLAST	
Т	FLUORESCENT WALL MOUNTED FIXTURE	
x	FLUORESCENT PENDANT MOUNTED FIXTURE	
O x	FLUORESCENT STRIP/WRAP FIXTURE	
□ x	EXTERIOR H.I.D. WALL-PACK	
$\square_{x}$	ROUND RECESSED CEILING MOUNTED FIXTURE	
<b>∞</b> ×	SURFACE MOUNTED FIXTURE	
Ϋ́×	WALL MOUNTED LIGHTING FIXTURE	
∠X	WALL SCONCE	
[ <b>]</b> -\□x	TRACK LIGHTING FIXTURE (TRACK MOUNTED FIXTURE TYPE MAY VARY)	
	EMERGENCY LED EXIT SIGN	
	COMBINATION EMERGENCY EXIT SIGN & LIGHTING FIXTURE WITH DUAL LAMPS HEADS BATTERY AND CHARGER	
4	EMERGENCY LIGHTING FIXTURE WITH DUAL LAMPS HEADS	

WITH DUAL LAMPS HEADS

DENOTES FIXTURE SWITCHED

ULTRASONIC/INFRARED OCCUPANCY SENSOR

LIGHTING CONTACTOR

--- C = CEILING MOUNTED

---- P = PILOT LIGHT (WHERE NOTED) 3 = 3 - WAY (WHERE NOTED)

4 = 4 - WAY (WHERE NOTED)

W = WALL MOUNTED 48" AFF (TO TOP)

BATTERY AND CHARGER

REMOTE EMERGENCY LIGHTING LAMP HEAD

LIGHT SWITCH

TIME CLOCK

PHOTOCELL

PC

## SYSTEMS SYMBOLS

F PULL STATION

写\*\* FIRE ALARM AUDIBLE/VISIBLE 日 NOTIFICATION APPLIANCE (GENE

STROBE UNIT XX= CANDELA

 \$\frac{15}{20v}\$ NON-SYSTEM STROBE UNIT

FIRE ALARM CONTROL PANEL

MINI HORN UNIT

SMOKE DETECTOR

**ANNUNCIATOR** 

MASTER BOX

DIGITAL COMMUNICATOR

S. DUCT SMOKE DETECTOR

T REMOTE TEST STATION

TS SPRINKLER TAMPER SWITCH

PS SPRINKLER PRESSURE SWITCH

□ NON-SYSTEM SMOKE DETECTOR STR = DENOTES INTEGRAL

□ RED MASTER BOX LIGHT

FCPS SIGNAL POWER EXTENDER

STROBE FOR H/C UNITS

FS SPRINKLER FLOW SWITCH

MM MONITOR MODULE

CM CONTROL MODULE

KB KNOX BOX, FBO

DH DOOR HOLDER

EXT HOOD EXT SYSTEM

NOTIFICATION APPLIANCE (GENERAL EVACUATION)

FIXED TEMP HEAT DETECTOR (135F OR 200F)

$\blacksquare$	TELEPHONE SYSTEM WALL JACK
	COMBINATION VOICE/DATA SYSTEM OUTLET
	COMBINATION VOICE/DATA SYSTEM OUTLET IN FLOOR BOX. FURNISH 1" CONDUIT IN SLAB
<b>-</b>	CATI/ JACK

[TV] CATV JACK

DS SECURITY SYSTEM DOOR SWITCH

EL ELECTRIC DOOR LOCK SET

KP SECURITY SYSTEM CARD ACCESS PAD

SP INTERCOM SYSTEM SPEAKER

INT INTERCOM MASTER STATION

---- CABLE TRAY

PUSH BUTTON

DB DOOR BELL

#### FIRE ALARM SYMBOLS GENERAL NOTES

- 1. ALL WORK SHALL BE IN COMPLIANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE.
- 2. ALL MOTOR SAFETY SWITCHES, DISCONNECTS AND MOTOR STARTERS ARE FURNISHED BY DIVISION 16000 UNLESS NOTED AS FURNISHED WITH EQUIPMENT (FWE).
- 3. UNLESS OTHERWISE NOTED, CONVENIENCE RECEPTACLES SHALL BE MOUNTED 18 INCHES AFF AND LIGHTING TOGGLE SWITCHES 48 INCHES AFF.
- 4. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH A UL APPROVED FIRE SEALANT METERIAL TO MAINTAIN THE RATING OF THE SEPARATION.
- 5. LIGHTING TOGGLE SWITCHES SHALL BE COMMERCIAL SPECIFICATION GRADE, 120 VOLT, SIDE WIRED AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL.
- 6. CONVENIENCE RECEPTACLES SHALL BE COMMERCIAL SPECIFICATION GRADE UNLESS SHOWN OTHERWISE, GROUNDING TYPE, NEMA 5-20R, SIDE WIRED, AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL.
- 7. DEVICE COVERPLATES SHALL BE THERMOPLASTIC NYLON TYPE WITH IVORY FINISH IN ALL FINISHED SPACES. MECHANICAL ROOMS, ELECTRICAL ROOM, AND UTILITY ROOMS SHALL BE FURNISHED WITH BRUSHED STAINLESS STEEL COVERPLATES.
- 8. UNLESS OTHERWISE NOTED ALL HOMERUNS FOR 15 OR 20A CIRCUITS SHALL BE 2#12AWG & #12 GND. HOMERUNS FED FROM 20A, 1P CIRCUITS IN EXCESS OF 100 FEET (FOR 120V CIRCUITS) SHALL BE #10AWG. ALL WIRING SHALL BE COPPER.
- 9. CONDUIT SYSTEMS: EXPOSED INTERIOR CONDUITS SHALL BE EMT, 3/4" MINIMUM. PROPERLY SUPPORTED NM CABLE (ROMEX) MAY BE USED ABOVE CEILINGS AND IN WALLS. FLEXIBLE LIQUIDTIGHT CONDUIT WHIPS SHALL BE USED FOR CONNECTION TO VIBRATING EQUIPMENT IN THE MECHANICAL ROOM.

## ABBREVIATIONS

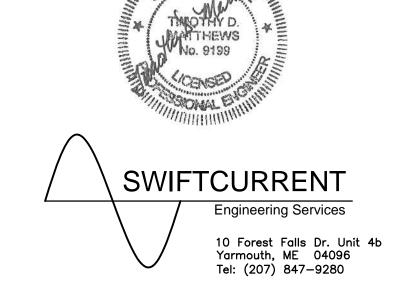
<u>ADDI</u>	<u> </u>		
Α	AMPERE	LV	LOW VOLTAGE
AC	ALTERNATING CURRENT	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AFG	ABOVE FINISHED GRADE	MCP	MOTOR CIRCUIT PROTECTION
AIC	AMPERES INTERRUPTING CAPACITY	MH	METAL HALIDE
AL	ALUMINUM	EMH	ELECTRICAL MANHOLE
ASYM	ASYMMETRICAL	MLO	MAIN LUGS ONLY
ATS		MO	MECHANICALLY OPERATED
	AUTOMATIC TRANSFER SWITCH	MOD	MOTOR OPERATED DAMPER
AUX	AUXILIARY	MTS	
AWG	AMERICAN WIRE GAUGE	MV	MANUAL TRANSFER SWITCH
BKR	BREAKER	MVA	MERCURY VAPOR
C	CONDUIT	NC	MEGAVOLT—AMPERE
CAB	CABINET	NO	NORMALLY CLOSED
CB	CIRCUIT BREAKER	OH	NORMALLY OPENED
CKT	CIRCUIT	OL	OVERHEAD
CT	CURRENT TRANSFORMER	OOA	OVER LOAD
CU	COPPER	OSY	ON-OFF-AUTOMATIC
DC	DIRECT CURRENT		OUTSIDE STEM & YOKE VALVE (FA SYSTEM)
DISC	DISCONNECT	Р	POLE
EG	EQUIPMENT GROUND	PB	PUSH BUTTON
EH	ELECTRICALLY HELD	PF	POWER FACTOR
EM	EMERGENCY	PH	PHASE
EMT	ELECTRICAL METALLIC TUBING	PNL	PANEL
EO	ELECTRICALLY OPERATED	PRI	PRIMARY
EPR	ETHYLENE PROPYLENE RUBBER	PT	POTENTIAL TRANSFORMER
EQUIP	EQUIPMENT	PVC	POLYVINYL CHLORIDE
EX	EXTERIOR	RGSC	RIGID GALVANIZED STEEL CONDUIT
FA	FIRE ALARM	RVSS	REDUCED VOLTAGE SOLID STATE
FC	FOOT-CANDLE	RSC	RIGID STEEL CONDUIT
FDR	FEEDER	RVAT	REDUCED VOLTAGE AUTO TRANSFORMER
FLUOR	FLUORESCENT	S	SIGNAL
FS	FLOW SWITCH (FA SYSTEM)	SEC	SECONDARY
FVNR	FULL VOLTAGE NON REVERSING	SHLD	SHIELDED CABLE
FVR	FULL VOLTAGE REVERSING	SW	SWITCH
GEN	GENERATOR	SWBD	SWITCHBOARD
GF	GROUND FAULT	SYM	SYMMETRICAL
GFI	GROUND FAULT CIRCUIT INTERRUPTER	T	TELEPHONE
GND	GROUND	TR	TRANSFORMER
Н	HAND HOLE	TBD	TO BE DETERMINED
HOA	HAND-OFF-AUTOMATIC	TD	TELEDIALER
HP	HORSE POWER	TDR	TIME DELAY RELAY
HPS	HIGH PRESSURE SODIUM	TEL	TELEPHONE
HV	HIGH VOLTAGE	TM	TELEMETRY
HZ	HERTZ	UG	UNDERGROUND
IG	ISOLATED GROUND	UT	UTILITY
IMC	INTERMEDIATE METAL CONDUIT	V	VOLT
INCAND	INCANDESCENT	·	VOLT-AMPERE
JB	JUNCTION BOX	VA	VARIABLE FREQUENCY DRIVE
KCMIL	THOUSAND CIRCULAR MILS	VFD	WATT
KV	KILOVOLT	W	WATT HOUR
KVA	KILO VOLT—AMPERE	WH	WEATHERPROOF
KW	KILO VOLT-AMPERE KILOWATT	WP	TRANSFORMER
KWH	KILOWATT HOUR	XFMR XLP	CROSS LINKED POLYETHYLENE
LPS	LOW PRESSURE SODIUM	XP	EXPLOSION PROOF
LTG		///	2.1. 200.011 1 1.001
LSW	LIGHTING		
	LIGHT SWITCH		

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ELECTRICAL LEGEND, SYMBOLS, & NOTES

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drawn by:JMD checked by:TDM

project number

