

FIRE ALARM FACP FIRE ALARM CONTROL PANEL FAA FIRE ALARM ANNUNCIATOR FIRE ALARM MASTER BOX FIRE ALARM MANUAL PULL STATION Fb FIRE ALARM SPEAKER/STROBE UNIT FIRE ALARM AUDIBLE/VISIBLE NOTIFICATION APPLIANCE (GENERAL EVACUATION) FIRE ALARM AUDIBLE/VISIBLE NOTIFICATION APPLIANCE CLEAN ROOM NOTIFICATION (LOCAL) FIRE ALARM VISIBLE ONLY NOTIFICATION APPLIANCE (110) - CANDELA INTENSITY-15/75 UNLESS OTHERWISE NOTED C -----CEILING MOUNTED PHOTOELECTRIC SMOKE DETECTOR. CEILING MOUNTED A ----INDICATES AUXILIARY CONTACT. FIXED TEMPERATURE HEAT DETECTOR. CEILING MOUNTED. INDICATES EQUIPMENT INTERLOCKED WITH THE DETECTOR CLEAN ROOM SMURE DELECTOR

CLEAN ROOM SMURE DELECTOR

CRC-1>
INDICATES EQUIPMENT INTERLOCKED WITH THE COMBINATION RATE-OF-RISE/FIXED TEMPERATURE HEAT DETECTOR. CEILING MOUNTED DUCT SMOKE DETECTOR, PHOTOELECTRIC WITH AUXILIARY CONTACT. SPRINKLER SYSTEM FLOW SWITCH SPRINKLER SYSTEM TAMPER SWITCH FIRE ALARM SYSTEM MAGNETIC DOOR HOLDER INTERLOCK RELAY SMOKE DAMPER DUCT SMOKE DETECTOR REMOTE TEST INDICATOR KNOX BOX SECURITY SYSTEMS DOOR CONTACT CR CARD READER KP KEY PAD CCTV CLOSED CIRCUIT TELEVISION CAMERA ES ELECTRIC STRIKE MAG LOCK

ONE LINE DIAGRAM MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER LOW VOLTAGE DRAWOUT CIRCUIT BREAKER AE AF - AMP FRAME AT AT — AMP TRIP EO EO - ELECTICALLY OPERATED MOLDED CASE CIRCUIT BREAKER ST - SHUNT TRIP GF - GROUND FAULT EO - ELECTRICALLY OPERATED DISCONNECT, ISOLATION OR SAFETY SWITCH FUSED CUTOUT FUSED LOAD BREAK SWITCH MEDIUM VOLTAGE MOTOR STARTER MAGNETIC MOTOR STARTER. NUMERAL INDICATES NEMA SIZE FVNR UNLESS OTHERWISE NOTED. FVR - FULL VOLTAGE REVERSING RVAT - REDUCING VOLTAGE AUTO TRANSFORMER 2S - TWO SPEED CAPACITOR VARIABLE FREQUENCY DRIVE POWER TRANSFORMER OA - LIQUID TYPE SELF COOLED AA - DRY TYPE SELF COOLED OA FA - FAN COOLED CONNECTION SHIELDED ISOLATION ISOLATION TRANSFORMER POTENTIAL TRANSFORMER 480/120 --- RATIO _NUMBER REQUIRED CURRENT TRANSFORMER ----RATIO _NUMBER REQUIRED GROUND FAULT CURRENT TRANSFORMER MOTOR, NUMBER INDICATES HORSEPOWER **GENERATOR** ATS - AUTOMATIC TRANSFER SWITCH MTS - MANUAL TRANSFER SWITCH A - AMMETER V - VOLTMETER W - WATTMETER WH - WATT HOURMETER KWH - KILOWATT HOUR KVAR - KILOVAR METER VAR - VAR METER HZ - FREQUENCY METER PF - POWER FACTOR METER DIGITAL POWER METER METER TRANSFER SWITCH AS - AMMETER SWITCH VS - VOLTMETER SWITCH TRANSIENT VOLTAGE SURGE SUPPRESSOR LIGHTNING ARRESTOR -(k)-KEY INTERLOCK ELECTRONIC POWER FUSE DRAWOUT DEVICE GROUND

ABBREVIATIONS

A,AMP	AMPERE	LA	LIGHTNING ARRESTER
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
NFG	ABOVE FINISHED GRADE	MC	METAL CLAD
NHJ NHJ	AUTHORITY HAVING JURISDICTION	MCB	MAIN CIRCUIT BREAKER
AIC	AMPERE INTERRUPTING CAPACITY	MFR	MANUFACTURER
AWG		MI	MINERAL INSULATED
SFG	DELOW FINISHED CDADE	MLO	MAIN LUG ONLY
30S	POTTOM OF STEEL	MTD	MOUNTED
503	CONDUIT CONDUCTOR	MV	MEDIUM VOLTAGE
CATV	AMERICAN WIRE GAUGE BELOW FINISHED GRADE BOTTOM OF STEEL CONDUIT, CONDUCTOR CABLE TELEVISION CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION	NC	NORMALLY CLOSED
CB	CIDCLIT DEAVED	NEC	NATIONAL ELECTRICAL COD
CCTV	CLOSED CIDCUIT TELEVISION	NEC NEG	NEGATIVE
CPT	CONTROL POWER TRANSFORMER	NEUT	NEUTRAL
CT	CURRENT TRANSFORMER	NIC	NOT IN CONTRACT
CU	COPPER	NO NO	NORMALLY OPEN
DACT	DIGITAL ALARM COMMUNICATOR	NTS	NOT TO SCALE
DACI		PF	POWER FACTOR
. D	TRANSMITTER	Pr DU	PHASE
)B	DIRECT BURIED	PH	POLYVINYL CHLORIDE
DISC	DISCONNECT	PVC	
ON TATE	DOWN	RGS RSC	RIGID STEEL CONDUIT RIGID STEEL CONDUIT
EMT	ELECTRICAL METALLIC TUBING	RTD	RESISTANCE TEMPERATURE
WC	ELECTRIC WATER COOLER	עוא	· · · · · · · · · · · · · · · · · · ·
FAA	FIRE ALARM ANNUNCIATOR	CN	DETECTOR
ACP	FIRE ALARM CONTROL PANEL	SN	SOLID NEUTRAL SHIELDED TWISTED PAIR
BO	FURNISHED BY OTHERS	STP STT	SHIELDED TWISTED PAIR SHIELDED TWISTED TRIPLET
TU TU	FUSE	SWBD	SWITCHBOARD
WE	The state of the s		
GEN	GENERATOR OROLLING FALLIT CIRCUIT PREAKER	SWGR TOS	TOP OF STEEL
GFCI	GROUND FAULT CIRCUIT BREAKER	TRANSF	TRANSFORMER
GND	GROUND	TVSS	TRANSFORMER TRANSIENT VOLTAGE
IP.	HORSEPOWER	1722	SURGE SUPPRESSER
HTR	HEATER OPOUND	٧	VOLT
G	ISOLATED GROUND	V VA	
MC	INTERMEDIATE METAL CONDUIT	VA VAR	VOLT—AMPERE VOLT—AMPERE REACTIVE
(KILO		WATT METER
KCMIL	THOUSAND CIRCULAR MILS	WM	WEATHER PROOF
(V	KILOVOLT	WP	TRANSFORMER
(VA (VAR	KILOVOLT-AMPERE KILOVOLT-AMPERE REACTIVE	XFMR	EXPLOSION PROOF
NAK M	KILUVULI -AMPEKE KEAUTIVE	XP	EAFLUSION PROUP
KW KWU	KILOWATT		
KW H	KILOWATT-HOUR		

GENERAL NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE (NEC).
- 2. ALL MOTOR SAFETY SWITCHES, DISCONNECTS AND MOTOR STARTERS ARE PROVIDED BY DIVISION 16000 UNLESS NOTED AS FURNISHED WITH EQUIPMENT (FWE).
- 3. UNLESS OTHERWISE NOTED CONVENIENCE RECEPTACLES SHALL BE MOUNTED 18-INCHES AFF, LIGHTING TOGGLE SWITCHES 48-INCHES AFF, DATA SYSTEM OUTLETS 18-INCHES AFF, FIRE ALARM NOTIFICATION DEVICES 80-INCHES AFF OR 6-INCHES BELOW CEILING, WHICHEVER IS LOWER, AND FIRE ALARM MANUAL PULL STATIONS 48-INCHES TO TOP OF DEVICE.
- 4. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF
- 5. ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED.
- 6. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH EVERY FEEDER AND BRANCH CIRCUIT.
- 7. UNLESS OTHERWISE NOTED WIRING SHALL BE 2#12 AWG CONDUCTORS AND #12 GND. HOME RUNS FED FROM 20A-1P CIRCUITS IN EXCESS OF 100 FEET SHALL BE #10
- 8. FLEXIBLE CONNECTIONS TO MOTORS SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT, UNLESS OTHERWISE NOTED.
- 9. LIGHTING TOGGLE SWITCHES SHALL BE COMMERCIAL SPECIFICATION GRADE 120 VOLT, SIDE WIRED AND PROVIDED WITH GROUNDING SCREW. LEVITON, PASS AND SEYMOUR OR APPROVED EQUAL. COORDINATE COLOR WITH ARCHITECT.
- 10. CONVENIENCE RECEPTACLES SHALL BE COMMERCIAL SPECIFICATION GRADE GROUNDING TYPE NEMA 5-20R, SIDE WIRED. LEVITON, PASS AND SEYMOUR OR APPROVED EQUAL COORDINATE COLOR WITH ARCHITECT.

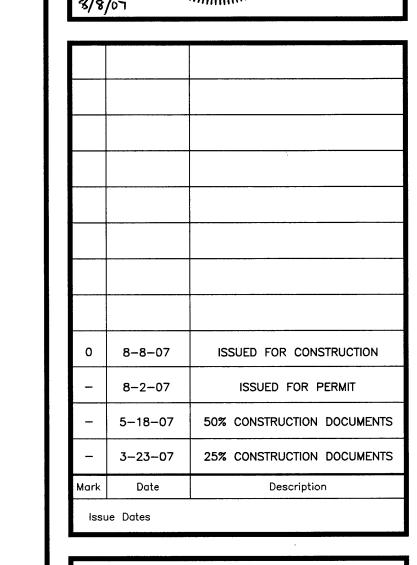
GENERAL NOTE

. ALL GENERAL NOTES, SYMBOL LISTS, AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL ELECTRICAL DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN

ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT

INDICATE THEIR INCORPORATION IN THE DESIGN.

- 11. PROVIDE WALL PLATES FOR ALL WIRING DEVICES, NYLON SMOOTH TYPE IN FINISHED AREAS AND GALVANIZED IN UNFINISHED AREAS.
- 12. ALL WIRING SHALL BE 600V, COPPER WITH THHN/THWN INSULATION. SERVICE ENTRANCE CONDUCTORS SHALL HAVE XHHW INSULATION.



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84 MARGINAL WAY

Portland, Maine

----Parking-

06196

Project Title

CONSTRUCTION

Drawing	Title	
C	LEGENI SENERAL	

Drawing Number

Drawn By: CDS

PA / PE: DJT

E - 001

SMRT CAD FILE: E-001-07053