

<p>F1 CLOCKS AND SPEAKERS (P.A.)</p> <p>NO SCALE</p>		<p>F3 SINGLE RECEPTACLES</p> <p>NO SCALE</p>		<p>F5 LUMINAIRES</p> <p>NO SCALE</p>		<p>F7 FIRE ALARM SYSTEM</p> <p>NO SCALE</p>		<p>F9 POWER DISTRIBUTION</p> <p>NO SCALE</p>	
<p>D1 ABBREVIATIONS</p> <p>NO SCALE</p>		<p>D3 RECEPTACLES</p> <p>NO SCALE</p>		<p>D5 EMERGENCY LUMINAIRES</p> <p>NO SCALE</p>		<p>D7 FIRE ALARM SYSTEM</p> <p>NO SCALE</p>		<p>D9 POWER DISTRIBUTION</p> <p>NO SCALE</p>	
<p>A1 SECURITY SYSTEM</p> <p>NO SCALE</p>		<p>A3 FLOOR AND CEILING DEVICES</p> <p>NO SCALE</p>		<p>A5 LIGHT SWITCHES</p> <p>NO SCALE</p>		<p>A5 TECHNOLOGY</p> <p>NO SCALE</p>		<p>A9 GENERAL NOTES</p> <p>NO SCALE</p>	

N:\Projects\2014\14003 - USM Bio Science\00 Drawing Files\14003E.dwg Mar 27, 2014 - 10:13am

- INTERCOM STATION
- NURSE CALL PATIENT STATION, PROVIDE EMPTY CONDUITS FOR USE BY OWNER'S NURSE CALL VENDOR. COORDINATE WITH OWNER.
- NURSE CALL DOME LIGHT, PROVIDE EMPTY CONDUITS FOR USE BY OWNER'S NURSE CALL VENDOR. COORDINATE WITH OWNER.
- PAGING SPEAKER
- MUSIC SPEAKER
- VOLUME CONTROL

- 20A, 125V, 2P, 3W, NEMA 5-20R
- 20A, 125V, 2P, 3W, NEMA L5-20R (TWISTLOCK)
- 30A RECEPTACLE-208/120V, 3P, 4W, GROUNDING, NEMA L21-30R, (4)#10+(1)#10G TO 30A, 3P CIRCUIT BREAKER
- 30A, 125V, 2P, 3W, NEMA 5-30R
- 50A RANGE RECEPTACLE-250V, 2P, 3W, NEMA 14-50R, (3)#8+(1)#10 TO 40A, 2P CIRCUIT BREAKER
- 60A RECEPTACLE -208/120V, 3PH, 4W, (3)#6+(1) #8G TO 60A, 3P CIRCUIT BREAKER

NOTE:
PROVIDE MATCHING CORD AND PLUG FOR SINGLE RECEPTACLES

- LIGHT FIXTURE, RECESSED TROFFER, TYPICAL INDICATES LIGHT FIXTURE TYPE ON LUMINAIRE SCHEDULE LOWER CASE LETTER INDICATES SWITCHING, TYPICAL # NUMBER INDICATES CIRCUITING, TYPICAL
 - UNDERCABINET LIGHT
- NOTE:** TYPE 'F1A' RECESSED TROFFER SHALL BE FINELITE HIGH PERFORMANCE RECESSED TROFFER, CAT. NO. HPR-A-2X4-DC-218 (277V) WITH (2) FS278/3500K LAMPS, PROVIDE "SUPER T8" LAMPS AND MATCHING BALLASTS; BASIS OF DESIGN BASED ON SYLVANIA PROSTART PSX PROGRAMMED RAPID START BALLAST (.71 BALLAST FACTOR) AND MATCHING OCTRON XPS LAMPS.
- TYPE 'L1' UNDERCABINET LIGHT SHALL BE PHILIPS 21" LED, CAT. NO. 523-00027-52.

- FIRE ALARM CONTROL PANEL, MOUNT WITH TOP OF PANEL NOT MORE THAN 72" AFF
- FIRE ALARM ANNUCIATOR, MOUNT WITH TOP OF PANEL NOT MORE THAN 72" AFF
- SMOKE DETECTOR
- SMOKE DETECTOR, "E" INDICATES CONNECTION FOR ELEVATOR RECALL
- SINGLE STATION SMOKE DETECTOR WITH AUDIBLE INDICATING APPLIANCE, MOUNT 80" AFF TO BOTTOM OR 6" BELOW CEILING WHICHEVER IS LOWER
- SINGLE STATION SMOKE DETECTOR WITH AUDIBLE/VISUAL INDICATING APPLIANCE, MOUNT 80" AFF TO BOTTOM OR 6" BELOW CEILING WHICHEVER IS LOWER
- HEAT DETECTOR
- DUCT SMOKE DETECTOR
- REMOTE TEST/INDICATOR FOR DUCT SMOKES, MOUNT ON CEILING BENEATH UNIT, OR WALL MOUNT WHERE INDICATED ON PLANS
- MANUAL PULL STATION, MOUNT 48" AFF

- PANELBOARD - SURFACE MOUNTED
- PANELBOARD - FLUSH MOUNTED
- FUSED DISCONNECT SWITCH
- NON-FUSED DISCONNECT SWITCH
- MOTOR STARTER - NUMBER INDICATES NEMA SIZE
- COMBINATION MOTOR STARTER/FUSED DISCONNECT
- MOTOR
- METER AND CABINET
- JUNCTION BOX - CEILING MOUNTED
- JUNCTION BOX - WALL MOUNTED
- JUNCTION BOX - FLOOR MOUNTED
- JUNCTION BOX - PEDESTAL MOUNTED
- TRANSFORMER - NUMBER INDICATES DESIGNATION SEE TRANSFORMER SCHEDULE
- VARIABLE FREQUENCY DRIVE
- TRANSIENT VOLTAGE SURGE SUPPRESSOR
- EMERGENCY SHUTOFF SWITCH - WALL MOUNTED 48" TO CENTERLINE - PROVIDE TAMPER-PROOF COVER
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN

- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- BAS BUILDING AUTOMATION SYSTEM
- BKBD BACKBOARD
- CATV CABLE TV
- CB CIRCUIT BREAKER
- FWE FURNISHED WITH EQUIPMENT
- P/O PART OF
- MT MOUNT
- NEC NATIONAL ELECTRICAL CODE
- NF NON-FUSED
- TEL TELEPHONE
- UNO UNLESS NOTED OTHERWISE
- WP WEATHERPROOF
- WG WIREGUARD
- XFMR TRANSFORMER

- DUPLEX RECEPTACLE - 20A, 125V, 2P, 3W, NEMA 5-20R
 - DOUBLE DUPLEX RECEPTACLE
 - DUPLEX RECEPTACLE, HATCH INDICATES CONNECTION TO EMERGENCY CIRCUIT
 - GFCI DUPLEX RECEPTACLE, MOUNT 44" AFF UNO
 - GFCI DOUBLE DUPLEX RECEPTACLE, MOUNT 44" AFF UNO
 - GFCI RECEPTACLE WITH WEATHERPROOF COVER
 - GFCI RECEPTACLE IN WP ENCLOSURE ON ROOF
 - WIREMOLD SERIES 4000 OR EQUAL WITH DIVIDER, OUTLETS SPACED AS INDICATED ON DRAWING. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
- NOTES:**
- MOUNT RECEPTACLES WITH CENTERLINE 18" AFF UNO
 - MOUNT EXTERIOR RECEPTACLES WITH CENTERLINE 24" AFF UNO

- HATCHING INDICATES FIXTURE ON LIFE SAFETY BRANCH
- EMER BATTERY UNIT WITH NO HEADS, MT 7'-6" AFF BP# INDICATES BATTERY UNIT DESIGNATION NUMBER INDICATES CIRCUITING
- EMER BATTERY UNIT WITH INTEGRAL HEADS, MT 7'-6" AFF BP# INDICATES BATTERY UNIT DESIGNATION NUMBER INDICATES CIRCUITING
- SINGLE REMOTE EMERGENCY LIGHT HEAD, MOUNT 7'-6" AFF, BP# INDICATES BATTERY UNIT CONNECTED TO
- DOUBLE REMOTE EMERGENCY LIGHT HEAD, MOUNT 7'-6" AFF, BP# INDICATES BATTERY UNIT CONNECTED TO
- DOUBLE REMOTE EMERGENCY LIGHT HEAD, CEILING MOUNTED, BP# INDICATES BATTERY UNIT CONNECTED TO
- EXIT SIGN, CEILING MOUNTED, SHADING INDICATES FACE(S), ARROWHEAD INDICATES CHEVRON(S) REQUIRED, BP# INDICATES BATTERY UNIT CONNECTED TO
- EXIT SIGN, SELF-POWERED, WALL MOUNTED, SHADING INDICATES FACE(S), MOUNT AT 7'-6" AFF OR OVER DOOR, BP# INDICATES BATTERY UNIT CONNECTED TO
- EXIT SIGN, SELF-POWERED, CEILING MOUNTED, SHADING INDICATES FACE(S), ARROWHEAD INDICATES CHEVRON(S) REQUIRED, NUMBER INDICATES CIRCUIT NUMBER, TYPICAL
- EXIT SIGN, SELF-POWERED, WALL MOUNTED, SHADING INDICATES FACE(S), MOUNT AT 7'-6" AFF OR OVER DOOR, NUMBER INDICATES CIRCUIT NUMBER, TYPICAL

- AUDIO/VISUAL INDICATING APPLIANCE, CANDELA AS NOTED ON PLANS, MOUNT 80" AFF TO BOTTOM OR 6" BELOW CEILING WHICHEVER IS LOWER
- VISUAL INDICATING APPLIANCE, 15 CANDELA, 120V, CONNECT TO OPERATE UPON ACTIVATION OF ROOM SMOKE DETECTOR
- MINI HORN
- MAGNETIC DOOR HOLD OPEN DEVICE
- TRANSFORMER
- SPRINKLER SYSTEM WATER FLOW SWITCH, PROVIDED UNDER DIVISION 23, WIRED UNDER DIVISION 26
- SPRINKLER SYSTEM TAMPER SWITCH, PROVIDED UNDER DIVISION 23, WIRED UNDER DIVISION 26
- SPRINKLER SYSTEM CHECK VALVE PRESSURE SWITCH, FURNISHED AND INSTALLED UNDER DIVISION 23, WIRED UNDER DIVISION 26
- SPRINKLER SYSTEM EXCESS PRESSURE PUMP, FURNISHED AND INSTALLED UNDER DIVISION 23, WIRED UNDER DIVISION 26
- KNOX BOX, MOUNT 60" AFF - PROVIDE IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT REQUIREMENTS
- SMOKE DAMPER

- WIRING UNDERGROUND OR UNDERSLAB
- HOMERUN - (2)#12+(1)#12G UNO (EXCEPT COMPUTER AND LIGHTING CIRCUITS: (1)#12+(1)#10N+(1)#12G UNO)
- SINGLE-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT
- 3-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT
- INDICATES 20A, 1P LOCKING CIRCUIT BREAKER
- FLEXIBLE CONNECTION
- GROUNDING SYSTEM
- POWER POLE
- PUSHBUTTON

NOTE

SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION INTO THE DESIGN

- BRANCH CIRCUIT WIRING NOT SHOWN. WIRE AND CONNECT ELECTRICAL ITEMS TO CIRCUITS INDICATED.
- DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ELECTRICAL CONDUIT, WIRING, DEVICES, BOXES, FIXTURES, EQUIPMENT, ETC. AS INDICATED AND AS REQUIRED TO FACILITATE WORK OF DIVISION 26 AND OTHER DIVISIONS. WHERE ELECTRICAL ITEMS ARE REMOVED, REMOVE CONDUIT AND WIRING BACK TO SOURCE.
- DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
- THE LOCATION OF EQUIPMENT, OUTLETS, ETC. AS GIVEN ON THE DRAWINGS, IS APPROXIMATE. IT SHALL BE UNDERSTOOD THAT THESE LOCATIONS ARE SUBJECT TO MODIFICATION AS MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME OF INSTALLATION IN ORDER TO MEET PROJECT REQUIREMENTS. SUCH CHANGES SHALL BE MADE WITHOUT EXTRA CHARGE.
- ALL ELECTRICAL DEVICES, WHEN INSTALLED, SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. COVER PLATES SHALL BE INSTALLED AFTER FINISH MATERIALS HAVE BEEN APPLIED.
- COORDINATE ALL WORK WITH OTHER DIVISIONS. VERIFY EXACT POWER REQUIREMENTS OF MECHANICAL EQUIPMENT WITH DIVISION 23. POWER WIRING FOR EQUIPMENT & CONTROL IS TO BE PERFORMED BY DIVISION 26. CONTROL WIRING BY DIVISION 23.

452 Congress Street Suite 502
Portland, Maine 04101

HKTA architects

Phone: 207.774.6616
Fax: 207.774.0228
email: hkta@hkta.com

Allied Engineering
Structural Mechanical
Electrical Commissioning

160 Veranda Street
Portland, Maine 04103
T: 207.221.2260
F: 207.221.2266
Web: www.allied-eng.com

REVISIONS

NUMBER	DATE	BY	DESCRIPTION

ELECTRICAL LEGENDS, ABBREVIATIONS AND GENERAL NOTES

Date: 3/28/2014
Drawn By: GMC
Checked By: SRM
Project Mgr: IAM
Project No: 14003
Cad File: 14003E.DWG
Graphic Scale: 0 1"

UNIVERSITY OF SOUTHERN MAINE BIO-SCIENCE
~ 3rd FLOOR LAB FIT-UP
PORTLAND, MAINE

© 2014 UNIVERSITY OF SOUTHERN MAINE BIO-SCIENCE

E-000