ALL DEVICES, FIXTURES, ETC. SHALL BE NEW UNLESS DESIGNATED WITH THE FOLLOWING TAGS:

ER EXISTING RELOCATED NR NEW TO REPLACE EXISTING IN EXISTING LOCATION EXISTING TO BE REMOVED

FLUORESCENT FIXTURE - UPPERCASE LETTER IS TYPE, LOWERCASE LETTER IS SWITCH CONTROL GROUP RECTANGLES INDICATE NUMBER FIXTURES IN A ROW.

CEILING MOUNTED FIXTURE - NOTES SAME AS ABOVE

RR REMOVE & RELOCATE EXISTING

WALL MOUNTED FIXTURE - NOTES SAME AS ABOVE CEILING MOUNTED EXIT SIGN - ARROW INDICATES DIRECTIVE ARROW ON SIGN

WALL MOUNTED EXIT SIGN - ARROW INDICATES DIRECTIVE ARROW ON SIGN EMERGENCY LIGHTING

BATTERY PACK WITH EMERGENCY LAMPS AS SHOWN REMOTE EMERGENCY LAMP LIGHT FIXTURES

SPST FLUSH WALL TOGGLE SWITCH - MOUNT AT 48" A.F.F TO CENTER - LETTER INDICATES SWITCH GROUP

THREE-WAY TOGGLE SWITCH - NOTES SAME AS SPST SWITCH ABOVE

DIMMER SWITCH - NOTES SAME AS SPST SWITCH ABOVE

FOUR-WAY TOGGLE SWITCH - NOTES SAME AS SPST SWITCH ABOVE

VACANCY SENSOR - NOTES SAME AS ABOVE DIMMING VACANCY SENSOR - NOTES SAME AS ABOVE

CEILING MOUNTED OCCUPANCY SENSOR

20 AMP DUPLEX CONVENIENCE RECEPTACLE - MOUNT AT 18" A.F.F. TO CENTER UNLESS INDICATED OTHERWISE - "GFI" INDICATES GROUND FAULT DEVICE,

"*" INDICATES GFI PROTECTED BY UPSTREAM DEVICE, "WP" INDICATES WEATHERPROOF,

"IG" INDICATES INSULATED/ISOLATED GROUND, "C" INDICATES CEILING MOUNTED, "F" INDICATES FLOOR MOUNTED

20 AMP QUADRAPLEX (DOUBLE DUPLEX) - NOTES SAME AS ABOVE

SPECIAL PURPOSE OUTLET OR EQUIPMENT CONNECTION - COORDINATE LOCATION AND TYPE OF CONNECTION WITH EQUIPMENT BEING SERVED.

JUNCTION BOX WITH COVER

MOTOR - SIZE AS INDICATED - COORDINATE W/ ACTUAL EQUIPMENT BEING SERVED

MANUAL STARTER - COORDINATE WITH EQUIPMENT BEING SERVED SINGLE THROW FUSED DISCONNECT SWITCH - NEMA ENCLOSURE AS REQUIRED REMOTE CONTROL

MAGNETIC STARTER - COORDINATE W/ EQUIPMENT BEING SERVED

ADA ELECTRICALLY-ASSISTED DOOR OPENER PUSHBUTTON

BRANCH CIRCUIT RUN IN CEILING OR IN WALLS —— – —— LOW VOLTAGE OR CONTROL WIRING - #12 MINIMUM OR AS NOTED

——#/—— MULTI-CONDUCTOR BRANCH CIRCUIT - NUMBER OF HASHMARKS IS NUMBER OF WIRES (NOT INCLUDING GROUND WIRE) WITHOUT HASHMARKS IS TWO WIRE

HOMERUN TO CIRCUIT AND PANEL INDICATED - NUMBER OF ARROWS IS NUMBER OF PHASE WIRES -

NUMBER OF WIRES AS INDICATED ABOVE

── CONTINUATION OF CIRCUIT DIRECTIVE ARROW

PANELBOARD - SEE PANELBOARD SCHEDULE(S)

COMBINATION VOICE/DATA JACK - "V" INDICATES NUMBER OF VOICE LINES, "D" INDICATES NUMBER OF DATA LINES, PROVIDE (1) EACH UNLESS NOTED OTHERWISE - "U" INDICATES 48" TO CENTER A.F.F. - PROVIDE 4"SQ DEVICE BOX & 1" CONDUIT WITH PURPON AND TERMINATION OF THE PROPERTY OF THE

TERMINATIONS BY OWNER'S VENDOR. VOICE JACK - NOTES SAME AS VOICE/DATA JACK ABOVE - "W" INDICATES WALL PHONE, (1) VOICE LINE ONLY

DATA JACK - NOTES SAME AS VOICE/DATA JACK ABOVE

WIRELESS ACCESS PORT

TELEVISION JACK - NOTES SAME AS RECEPTACLES

RECESSED FLOOR OR CEILING MOUNTED BOX - POWER & COMMUNICATIONS AS SHOWN-"F" INDICATES FLOOR MOUNTED, "C" INDICATES CEILING MOUNTED - NOTES SAME AS VOICE/DATA JACK ABOVE

Ю WALL MOUNTED CLOCK

CEILING SPEAKER (SOUND OR INTERCOM SYSTEM AS SHOWN) WALL

SPEAKER (SOUND OR INTERCOM SYSTEM AS SHOWN)

LOUD SPEAKER

MICROPHONE

INTERCOM SYSTEM CALL STATION

INTERCOM SYSTEM CONTROL PANEL TELEPHONE/INTERCOM SYSTEM HAND SET

CABLE TRAY

FIRE ALARM SYSTEM CONTROL PANEL

FIRE ALARM ANNUNCIATOR

FIRE ALARM SYSTEM CEILING MOUNTED HEAT DETECTOR

FIRE ALARM SYSTEM CEILING MOUNTED SMOKE DETECTOR

FIRE ALARM SYSTEM DUCT MOUNTED SMOKE DETECTOR

WALL MOUNTED FIRE ALARM SYSTEM MANUAL PULL STATION E∀ FIRE ALARM SYSTEM WALL MOUNTED AUDIO/VISUAL DEVICE WITH VISUAL DEVICE CANDELA RATING AS NOTED

FIRE ALARM SYSTEM WALL MOUNTED VISUAL DEVICE ONLY - CANDELA RATING AS NOTED FIRE ALARM SYSTEM DOOR HOLD-OPEN DEVICE CONNECTION

FIRE ALARM SYSTEM/SPRINKLER SYSTEM PRESSURE SWITCH

FIRE ALARM SYSTEM/SPRINKLER SYSTEM FLOW SWITCH FIRE ALARM SYSTEM/SPRINKLER SYSTEM TAMPER SWITCH

SECURITY ALARM SYSTEM CONTROL PANEL

ACCESS CONTROL SYSTEM CARD READER

SECURITY ALARM SYSTEM MOTION DETECTOR SECURITY ALARM SYSTEM SIREN/STROBE

POSITION SWITCH

VIDEO SURVEILLANCE CAMERA

				LIG	HT FIX	KTURE S	CHED	ULE				
TYPE	DESCRIPTION	SIZE	MANUFACTURER CAT. NO.	LENS/LOUVER	LAMPS (1)	DRIVER (1)	EFFICENCY MAINE CODE	MINIMUM EFFICACY	LISTING	WATTS PER FIXTURE	VOLT.	NOTES
А	CEILING RECESSED ARCHITECTURAL	2' X 4'	FINELITE HPR LED-A-2X4-DCO-S-840-277V-SC-	FROSTED ACRYLIC	LED	0-10V DIMMING		140	DLC STANDARD	27	277	(2)
A1	CEILING RECESSED ARCHITECTURAL	2' x 2'	FINELITE HPR LED-A-2X2-DCO-S-840-277V-SC-	FROSTED ACRYLIC	LED	0-10V DIMMING		140	DLC STANDARD	27	277	(2)
A2	CEILING RECESSED ARCHITECTURAL	1' x 4'	FINELITE HPR LED-A-1X4-DCO-S-840-277V-SC-	FROSTED ACRYLIC	LED	0-10V DIMMING		140	DLC STANDARD	27	277	(2)
В	CEILING SUSPENDED PENDANT	8' L	FINELITE SERIES 16 LED ID DCO-8'-SE-S-8-40-20U80D-277V- SC-FA-FE-C*	FROSTED ACRYLIC	LED	0-10V DIMMING		132		30	277	
В1	CEILING SUSPENDED PENDANT	4' L	FINELITE SERIES 16 LED ID DCO-4-2E-S-8-4020U80D-277V- SC-FA-FE-C*	FROSTED ACRYLIC	LED	0-10V DIMMING		132		15	277	
В2	CEILING SUSPENDED PENDANT	12' L	FINELITE SERIES 16 LED ID DCO-12-SE-S-8-40-20U80D-277V- SC-FA-FE-C*	FROSTED ACRYLIC	LED	0-10V DIMMING		132		45	277	
С	CEILING RECESSED DOWNLIGHT	6" DIA.	PRESCOLITE LF6LEDG4-6LFLED5G440	OPEN	LED	0-10V DIMMING		75	ES	15	UNV	
₽	EXIT SIGNAGE		DUAL-LITE LXURLIE	RED LETTERS	LED	-		-		4	UNV.	REFER TO PLANS FOR # OF FACES AND DIRECTIONAL ARROWS.

GENERAL ELECTRICAL DEMO NOTES:

(1) ALL FIXTURES (WHERE INDICATED) SHALL BE EITHER DESIGN LIGHT CONSOTIUM (DLC) OR ENERGY STAR (ES) LISTED AND ELIGIBLE FOR EFFICENCY MAINE.

1. ELECTRICAL CONTRACTOR SHALL REVIEW ALL TRADE'S DRAWINGS. AREAS NOTED TO BE DEMOLISHED ARE SHOWN ON ARCHITECTURAL PLANS. THIS SHALL INCLUDE ALL ELECTRICAL DEVICES, FIXTURES AND/OR SWITCHGEAR. ALL EXISTING EQUIPMENT SHALL REMAIN ON EXISTING SURFACES UNLESS SPECIFICALLY NOTED OTHERWISE.

2. WIRING FOR EXISTING BRANCH CIRCUIT DEVICES TO BE DEMOLISHED SHALL BE REMOVED BACK TO THE PANELBOARD. THE ASSOCIATED CIRCUIT BREAKER SHALL BE TURNED OFF AND MARKED AS SPARE IN THE PANELBOARD DIRECTORY. DO NOT ABANDON BRANCH CIRCUIT WIRING ABOVE CEILINGS OR IN WIREWAYS.

3. ALL RACEWAYS & CABLES, NO LONGER IN USE, SHALL BE REMOVED.

(2) NO SUBSTITUIONS - USM STANDARD

4. MAINTAIN, OR RESTORE IF INTERRUPTED BY REMOVALS OR IN PATH OF NEW CONSTRUCTION, ALL CONDUITS, BRANCH CIRCUITS, AND FEEDERS PASSING THROUGH AND SERVING UNDISTURBED AREAS (SHOWN OR NOT SHOWN).

5. ALL EXISTING CONDUITS STUBBED THROUGH FLOOR SERVING ITEMS TO BE REMOVED (SHOWN OR NOT SHOWN) AND NOT REQUIRED TO BE REUSED SHALL BE CUT OFF FLUSH WITH THE SLAB DECK AND SEALED.

6. IN ANY AREA REQUIRING THE PERFORMANCE OF ANY TRADES WORK, THIS ELECTRICAL CONTRACTOR SHALL CAREFULLY REMOVE AND STORE ANY ELECTRICAL ITEMS IN THE PATH OF WORK, REINSTALLING AND RECONNECTING SAME AS REQUIRED IN ACCORDANCE WITH THE PLANS AND/OR AS DIRECTED AFTER COMPLETION OF OTHER TRADES WORK IN THAT AREA.

7. ENSURE REMOVAL OF ELECTRICAL DEVICES IN CONSTRUCTION AREA DOES NOT EFFECT ADJACENT AREAS.

8. ALL ELECTRICAL FIXTRUES, DEVICES AND EQUIPMENT SHALL BE TURNED OVER TO THE OWNER. IF OWNER DOES NOT WISH TO KEEP ITEMS, THEY BECOME THE PROPERTY OF THE ELECTRICAL CONTRACTOR AND MUST BE REMOVED FROM THE SITE.

GENERAL NOTES:

1. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER, RECTILINEAR TO BUILDING STRUCTURE, AND IN ACCORDANCE WITH ALL APPLICABLE CODES, INCLUDING, BUT NOT LIMITED TO NFPA 70, 90A, 101 AND DIRECTION OF AUTHORITY HAVING JURISDICATION.

2. EXACT LOCATION OF MECHANICAL EQUIPMENT THAT REQUIRES ELECTRICAL CONNECTION IS SHOWN ON THE MECHANICAL PLANS.

3. CONTRACTOR SHALL REVIEW ALL TRADES CONTRACT DOCUMENTS, AND FIELD VERIFY TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT AND CONDUITS.

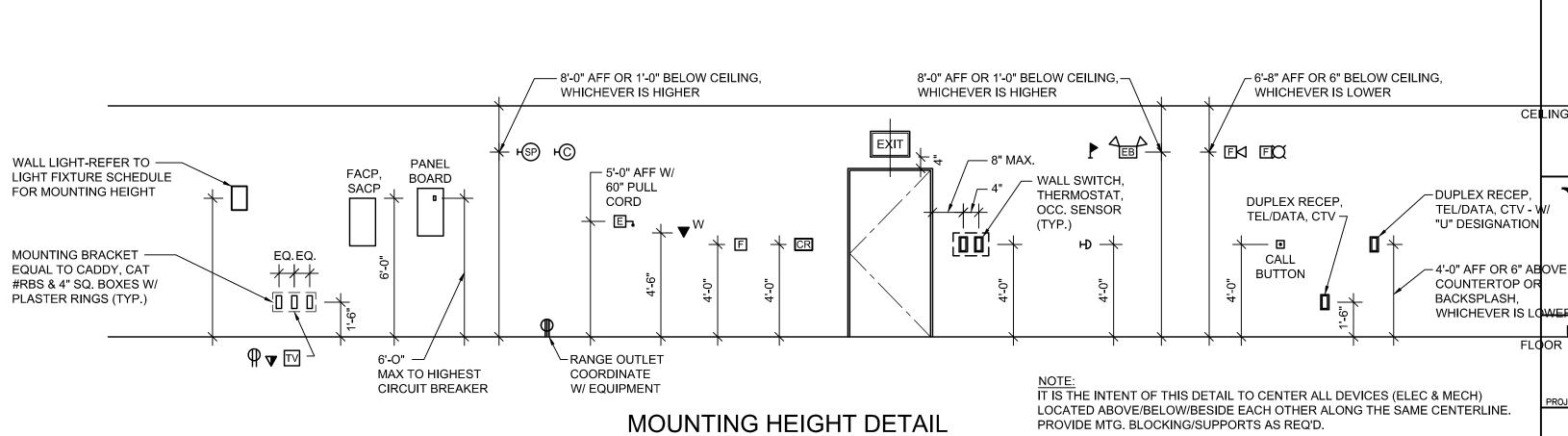
4. COORDINATE ARRANGEMENT, MOUNTING, AND SUPPORT OF ELECTRICAL CONDUIT AND EQUIPMENT TO PROVIDE FOR EASE OF DISCONNECTING THE EQUIPMENT WITH MINIMUM INTERFERENCE TO OTHER INSTALLATIONS; TO ALLOW RIGHT OF WAY FOR PIPING INSTALLED AT A REQUIRED SLOPE; AND SO CONNECTING RACEWAYS SHALL BE CLEAR OF OBSTRUCTIONS AND OF THE WORKING AND ACCESS SPACE OF OTHER EQUIPMENT.

5. RUN SEPARATE NEUTRAL WIRE FOR EACH DEDICATED BRANCH CIRCUIT SHOWN ON THE PLANS.

6. DEVICES SHALL NOT BE INSTALLED BACK-TO-BACK IN ADJACENT ROOMS. ADJUST LOCATIONS AS NECESSARY TO AVOID THIS CONDITION.

ABBREVIATIONS

<u> </u>	<u>KEVI/TTOTAO</u>		
Α	AMPERES	GND	GROUND
AFF	ABOVE FINISHED FLOOR	HP	HORSEPOWER, HEAT PUMP
AFG	ABOVE FINISHED GRADE	JB	JUNCTION BOX
ATS	AUTOMATIC TRANSFER SWITCH	KVA	KILO VOLT AMPS
BATT	BATTERY	KW	KILOWATT(S)
BHEC	BANGOR HYDRO ELECTRIC CO.	LTG	LIGHTING
BKR	BREAKER	MAX	MAXIMUM
BLDG	BUILDING	MIN	MINIMUM
СВ	CIRCUIT BREAKER	N	NEW
CKT	CIRCUIT	OC	ON CENTER
CLG	CEILING	OS/OI	OWNER SUPPLIED, OWNER INSTALLED ITEM
CMP	CENTRAL MAINE POWER CO.	PAR	PARTIAL CIRCUIT
CT	CURRENT TRANSFORMER	PVC	POLYVINYL CHLORIDE
DN	DOWN	RECEP	RECEPTACLE
DWG	DRAWING	TEL	TELEPHONE
EMERG	EMERGENCY	TYP	TYPICAL
EMT	ELECTRICAL METALLIC TUBING	UG	UNDERGROUND
EQUIP	EQUIPMENT	V	VOLTS
FA	FIRE ALARM	W	WATTS
FAA	FIRE ALARM ANNUNCIATOR	WG	WIRE GUARD
FACP	FIRE ALARM CONTROL PANEL	WM	WIREMOLD
FA-PE	FIRE ALARM SYSTEM POWER EXTENDER	WP	WEATHERPROOF
FIN	FINISH, FINISHED		
FLR	FLOOR		



NOT TO SCALE

PROVIDE MTG. BLOCKING/SUPPORTS AS REQ'D.

USM SCIENCE BUILDING OFFICE RENOVATIONS PORTLAND, ME ELECTRICAL LEGEND

BANGOR, MAINE 207-947-4511 PORTLAND, MAINE 207-828-4511 SARASOTA, FLORIDA 941-556-0757

BID DOCUMENTS

REV. | DESCRIPTION

02-03-17

DATE

4128.10 - E-00 4128.10 GRAPHIC SCALE:

AS NOTED E-001

ELECTRICAL LEGEND

NTS