MOUNTING HEIGHT SCHEDULE

SWITCHES	4'-0"
CONVENIENCE OUTLETS	2'-0"
WEATHERPROOF OUTLETS	2'-0"
TELEPHONE OUTLETS	2'-0"
COMPUTER OUTLETS	2'-0"
MULTIOUTLET ASSEMBLY (MOA)	2'-0"
TELEVISION OUTLETS	7'-0"
BRANCH PANELS (TOP)	6'-6"
DISCONNECT SWITCHES (TOP)	5'-6"
COMBINATION MAG. STARTER / DISC. SW. (TOP)	5'-6"
MANUAL FIRE ALARM STATIONS	4'-0"
FIRE ALARM HORN, BELL OR VISUAL SIGNALS	6'-8"

MOUNTING HEIGHTS SHALL PREVAIL ON ALL NEW CONSTRUCTION UNLESS OTHERWISE NOTED.

MOUNTING HEIGHTS ARE TO CENTER AND ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.

MOUNTING HEIGHTS FOR CONVENIENCE OUTLETS ABOVE COUNTERS SHOULD BE 2-1/2" ABOVE BACKSPLASH MOUNTED HORIZONTALLY.

THESE ARE TYPICAL MOUNTING HEIGHTS. NOT ALL DEVICES ARE NECESSARILY APPLICABLE TO THIS PROJECT.

FIRE ALARM SYSTEM SYMBOLS

	FIRE ALARM CONTROL PANEL
F	MANUAL PULL STATION
F	FIXED TEMPERATURE (135°F) THERMAL DETECTOR
F^{200}	FIXED TEMPERATURE (200°F) THERMAL DETECTOR
C	RATE COMPENSATION THERMAL DETECTOR
	IONIZATION PRODUCTS OF COMBUSTION (P.O.C) DETECTOR
H	HIGH AIR VELOCITY P.O.C. DETECTOR
P	PHOTO ELECTRIC P.O.C. DETECTOR
120	120 VOLT P.O.C. DETECTOR
	DUCT MOUNTED P.O.C. DETECTOR
H	HORN/STROBE
H	MINI HORN/STROBE
	FIRE ALARM HORN UNIT
H	STROBE
M	INTERFACE MODULE
M_D	INTERFACE MODULE – DUAL CONTACT
M_R	INTERFACE MODULE – RELAY
	DOOR HOLDER – ARCHITECTURAL ITEM, WIRED BY DIV. 16
	FLOW SWITCH – MECHANICAL ITEM, WIRED BY DIV. 16
	TAMPER SWITCH – MECHANICAL ITEM, WIRED BY DIV. 16
	SPRINKLER BELL – MECHANICAL ITEM, WIRED BY DIV. 16
SD	FIRE/SMOKE DAMPER – MECHANICAL ITEM, WIRED BY DIV. 16

NOTE: NOT ALL SYMBOLS ARE USED.

FIXTURE SCHEDULE

TYPE	MOUNTING	LAMP	DESCRIPTION	BALLAST	MANUFACTURER
A3	RECESSED CEILING	THREE F32T8/SP35	FLUORESCENT 2' X 4', SPECIFICATION GRADE, WHITE FINISH, FLAT STEEL DOOR FRANE WITH POSITIVE LATCH, 0.125" PRISMATIC ACRYLIC DIFFUSER, STATIC	120V ELECTRONIC	DAY-BRITE NO. 2DG332-FS12 OR PREAPPROVED EQUAL
AP3	RECESSED CEILING	THREE F32T8/SP35	FLUORESCENT 2'X 4', SEMI-SPECULAR LOW IRIDESCENCE ALUMINUM PARABOLIC LOUVER, 18 CELLS, 3" DEEP, STATIC	120V ELECTRONIC	DAY-BRITE NO. 2P3GS332-3SSL OR PREAPPROVED EQUAL
AP4	RECESSED CEILING	FOUR F32T8/SP35	FLUORESCENT 2'X 4', SEMI-SPECULAR LOW IRIDESCENCE ALUMINUM PARABOLIC LOUVER, 32 CELLS, 3" DEEP, STATIC	120V ELECTRONIC	DAY-BRITE NO. 2P3GS432-4SSL OR PREAPPROVED EQUAL
B	UNDER CABINET	ONE F32T8/SP35	FLUORESCENT UNDER CABINET FIXTURE, EXTRUDED ALUMINUM HOUSING, BAKED WHITE POLYESTER POWDER COAT FINISH, CLEAR LINEAR PRISMATIC LENS	120V ELECTRONIC	ALKCO NO. LINCS-150-WE-048/ECB OR PREAPPROVED EQUAL
BP4	SURFACE WALL OR PENDANT AS INDICATED	FOUR F32T8/SP35	FLUORESCENT WALL OR PENDANO MOUNT, 6"X6" CROSS SECTION, ANODIZED SEMI SPECULAR ALUMINUM PARABOLIC LOUVERS, CORNERS AND VARIOUS OTHER CONNECTORS AVAILABLE FOR MOUNTING AS INDICATED ON DRAWINGS,	120V ELECTRONIC	COLUMBIA NO. F420X4382 OR PREAPPROVED EQUAL
C2	SURFACE CEILING	TWO F32T8/SP35	FLUORESCENT WRAPAROUND, SPECIFICATION GRADE, ACRYLIC DIFFUSER, INJECTION MOLDED END CAPS, HINGE FROM EITHER SIDE, NOMINAL 15" X 48"	120V ELECTRONIC	DAY-BRITE NO. SWW-232 OR PREAPPROVED EQUAL
C4	SURFACE CEILING	FOUR F32T8/SP35	FLUORESCENT WRAPAROUND, SPECIFICATION GRADE, ACRYLIC DIFFUSER, INJECTION MOLDED END CAPS, HINGE FROM EITHER SIDE, NOMINAL 15" X 48"	120V ELECTRONIC	DAY-BRITE NO. SWW-432 OR PREAPPROVED EQUAL
DS	SURFACE CEILING	ONE F32T8/SP35	FLUORESCENT STANDARD STRIP FIXTURE, DIE-FORMED STEEL CHANNEL, HIGH REFLECTANCE WHITE BAKED ENAMEL FINISH	120V ELECTRONIC	DAY-BRITE NO. T132 OR PREAPPROVED EQUAL
DS2/1500	EXTERIOR MARQUEE, SUSPEND 1-1/2" FROM SURFACE	TWO F96T12/CW/1500/O DOUBLE JACKET	FLUORESCENT STANDARD STRIP FIXTURE, DIE-FORMED STEEL CHANNEL, HIGH REFLECTANCE WHITE BAKED ENAMEL FINISH	-20 DEGREE STARTING TEMP	DAY-BRITE NO. 1D296VH OR PREAPPROVED EQUAL
DV2	SURFACE CEILING	TWO F32T8/SP35	FLUORESCENT VAPORTIGHT FIXTURE, WHITE ONE-PIECE, MOLDED FIBERGLASS BODY WITH METAL LINER, COMPRESSIBLE CLOSED CELL GASKET, 0.120 INCH ACRYLIC ENCLOSURE, ENCLOSURE SECURED TO BODY BY SIX CAPTIVE, STAINLESS STEEL LATCHES, UL LISTED FOR WET LOCATIONS	120V ELECTRONIC	DAY-BRITE NO. VW232 OR PREAPPROVED EQUAL
E	SURFACE WALL +7'-6" AFF OR CEILING	LIGHT EMITTING DIODE (LED) BY MFR	EXIT SIGN, WHITE STENCIL FACE, +25 YEAR LIFE SINGLE-STROKE GREEN LED LAMPS, WHITE VINYL COATED ALUMINUM HOUSING, LEXAN FACE SHIELD, UNIVERSAL MOUNTING, WALL OR CEILING, SINGLE OR DOUBLE FACE, AND CHEVRON ARROWS AS SHOWN ON THE DRAWINGS	120V INPUT	HUBBELL NO. LED SERIES OR PREAPPROVED EQUAL
EM2	SURFACE WALL +7'-6" AFF	TWO 7.2W HALOGEN LAMPS BY MFR.	SELF-CONTAINED EMERGENCY LIGHTING FIXTURE, PURE LEAD BATTERY, LOW VOLTAGE BATTERY PROTECTION, WITH MOUNTING BRACKET, SOLID STATE CHARGER. PROVIDE WITH POLYCARBONATE SHIELD IN PUBLIC USE AREAS.	120V INPUT	DUAL-LITE NO. EZ-2 W/ NO. VRS IN PUBLIC AREAS OR PREAPPROVED EQUAL
F2	RECESSED CEILING	TWO 26W QUAD SPX 35	COMPACT FLUORESCENT RECESSED DOWNLIGHT, 8" ROUND APERATURE, STEEL FRAME, LOW IRIDESCENT SPECULAR CLEAR METAL REFLECTOR, SELF FLANGED	120V ELECTRONIC	HALO NO. C7226-1E-7251-LI OR PREAPPROVED EQUAL
G2	SURFACE CEILING	TWO 75W TYPE A INCANDESCENT	VANDAL RESISTANT SUFACE MOUNT FIXTURE, CLEAR PRISMATIC LENS, TAMPER PROOF FASTENERS, PORCELAIN SOCKETS.	120V INPUT	KENALL NO. 3810 OR APPROVED EQUAL
H	SURFACE WALL +7'-6" AFF	ONE 75W TYPE A INCANDESCENT	VANDAL RESISTANT SUFACE MOUNT FIXTURE, CLEAR PRISMATIC LENS, TAMPER PROOF FASTENERS, PORCELAIN SOCKETS.	120V INPUT	KENALL NO. 3737 OR APPROVED EQUAL

SYMBOLS

	FLUORESCENT FIXTURE.
	FLUORESCENT FIXTURE ON EMERGENCY TRANSFERRED POWER
	SURFACE MOUNTED FLUORESCENT FIXTURE
	FLUORESCENT STRIP FIXTURE
	INCANDESCENT, FLUORESCENT, OR H.I.D. FIXTURE
	WALL MOUNTED INCANDESCENT, FLUORESCENT, OR H.I.D. FIXTURE
	WALL MOUNTED EXIT FIXTURE, ARROW AS INDICATED, TYPE E, FACE(S) INDICATED BY SHADED AREA(S).
	WALL MOUNTED, BATTERY OPERATED EMERGENCY FIXTURE, TYPE EM
A2/32	FIXTURE TYPE, NO. OF LAMPS/LAMP WATTS
OSA	OCCUPANCY SENSOR, TYPE A – OSB, OSC, OSD FOR B, C, & D
OSA	OCCUPANCY SENSOR, WITH MULTIPLE SENSOR CONNECTION
S	SINGLE POLE SWITCH
S_3	THREEWAY SWITCH
S_a	SWITCH FOR FIXTURES MARKED "a"
S_K	KEYED SWITCH
S_P	PILOT LIGHT SWITCH
S_D	DIMMER SWITCH
S_E	DOUBLE POLE DOUBLE THROW EMERGENCY LIGHT SWITCH
S_X	INTERCOM SWITCH (DEMO ONLY)
	DUPLEX RECEPTACLE
	GROUND FAULT INTERRUPTER, DUPLEX RECEPTACLE (G.F.I.)
	DOUBLE DUPLEX RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE; Nemo Type As Shown
CK D B C2	MULTI-OUTLET ASSEMBLY (MOA) – PROVIDE DEVICES AND LENGTHS AS INDICATED ON THE DRAWINGS
	CORD REEL
	TELEPHONE OUTLET
P	PAY TELEPHONE OUTLET
C	COMPUTER OUTLET
C2	DUPLEX COMPUTER OUTLET
CT	DUPLEX COMPUTER OUTLET WITH TELEPHONE JACK AND M2616 HANDSET
TV	TELEVISION OUTLET
	INTERCOM SPEAKER
	WALL MOUNTED ACOUSTICAL SPEAKER
CSV	CLOCK/SPEAKER/PRIVACY SWITCH ASSEMBLY
	WALL MOUNTED CLOCK
	MICROPHONE OUTLET
S	CEILING INTERCOM SPEAKER
S	OUTSIDE WEATHERPROOF SPEAKER
	TELE POWER POLE, 2-DUPLEX POWER, 2-DUPLEX COMPUTER OUTLET
	HEADBOLT HTR OUTLET POST – No. OF RECEPTACLES INDICATED
J	JUNCTION BOX
M	MOTOR
	DISCONNECT SWITCH
	COMBINATION MOTOR STARTER-DISCONNECT SWITCH
M	MOTOR W/DISC. SW. LOCATED ON OR ADJACENT TO THE MOTOR
	EMERGENCY STOP SWITCH
	PUSHBUTTON SWITCH
	WIRING CONCEALED IN CEILING OR WALL (Except As Noted)
	BRANCH CIRCUIT HOME RUN TO PANELBOARD – No. of Arrows Indicates Number of Circuits, Panel and Circuit Numbers As Shown
	NUMBER OF CONDUCTORS IN RACEWAY – Absence of marks indicates two conductors and equipment grounding conductor. Equipment grounding conductor indicated.
	MAIN DISTRIBUTION PANEL (M.D.P.)
	BRANCH PANEL
A107	ROOM NUMBER (A107)
AFF	ABOVE FINISHED FLOOR
AG	ABOVE GRADE
TYP	TYPICAL
SHT	SHEET (REFER TO DRAWING)
CKT	CIRCUIT
WP	WEATHER PROOF

NOTE: LIGHT DASHED LINES AND SYMBOLS INDICATE EXISTING EQUIPMENT TO REMAIN. DARK LINES AND SYMBOLS INDICATE NEW EQUIPMENT TO BE PROVIDED.

NOT ALL SYMBOLS ARE USED.

NOTES:

1. FOR COOLER CONDENSER, KITCHEN ITEM 6a, ON EXISTING CIRCUIT GD42-15 AND 17, AND FREEZER CONDENSER, KITCHEN ITEM 6b, ON EXISTING CIRCUIT GD43-14 AND 16, RECONNECT EXISTING CIRCUITS TO RELOCATED COOLER AND FREEZER CONDENSERS AS SHOWN ON SHEET M4.1.
2. FOR THE EXISTING CIRCUIT IN KITCHEN K101 FOR THE REFRIDGERATOR/FREEZER DRAIN LINE HEAT TAPE, CHANGE THE EXISTING 20A-1P CIRCUIT BREAKER TO A 20 AMP – 1 POLE, 30 mA, GROUND FAULT CIRCUIT INTERRUPTER CIRCUIT BREAKER. SEE M4.1.

REV.	DATE	C.O.	ACTION	DESCRIPTION	BY	APP'D.

CONTRACT NO.

CONTRACTOR

CITY STATE

RECOMMENDED: PRIME CONTRACTOR

APPROVED: RESIDENT ENGINEER

DATE:

USKH — A quarter century of design for Alaskans

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

DESIGNED:
DRAWN:
TRACED:
CHECKED:
SUBMITTED:
DR. SECT.

BEN EIELSON JR./SR. HIGH SCHOOL – PHASE 3
EIELSON AIR FORCE BASE, ALASKA

ELECTRICAL
SYMBOLS & SCHEDULES

RECOMMENDED: CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH

APPROVED: CHIEF ENGINEERING DIVISION

DATE:

SCALE: NO SCALE

SPEC. NO.

DRAWING NUMBER 29-02-38

SHEET OF

REFERENCE NO. E0.1