



NOTE:
PROJECT ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL NOTION SENSORS, WITH ALL REQUIRED ACCESSORIES, FOR CONTROL OF ROOM LIGHTING WITHIN THE WALK-IN COOLER, WALK-IN FREEZER AND THE DRY STORED AREA. SENSORS USED IN COOLER AND FREEZER MUST BE DESIGNED FOR LOW TEMP USAGE (I.E. SENSOR SWITCH #MSD-1). SENSORS TO BE MANUFACTURED BY SENSOR SWITCH, INC. OF WALLINGFORD, CT. OR AN EQUAL.

1 LIGHTING & BUILDING SIGNAGE POWER PLAN
E2 SCALE: 1/4" = 1'-0"

SYM	DESCRIPTION
	SPECIAL PURPOSE OUTLET (COMBO WALL USB CHARGER) - FLUSH MOUNT (15 AMP RATED)
	DUPLEX RECEPTACLE OUTLET - FLUSH MOUNT (20 AMP RATED)
	208 VOLT RECEPTACLE - FLUSH MOUNTED
	SPLIT WIRED DUPLEX RECEPTACLE OUTLET FLUSH MOUNT - (20 AMP RATED)
	ISOLATED GROUND RECEPTACLE (NEMA 5-20R-10)
	JUNCTION BOX - FLUSH MOUNT
	DISCONNECT SWITCH
	INSULATED / ISOLATED GROUND
	CONDUIT HOME RUN TO PANEL "LD" WITH CIRCUITS 1,3
	SINGLE POLE SWITCH
	LIGHT FIXTURE W/PRISMATIC LENS
	SPEAKER FIXTURE
	RECESSED DOWN LIGHT
	DECORATIVE PATIO LIGHTING
	UNDERGROUND CONDUIT
	PANEL "LE" AND CIRCUITS 8 THROUGH 18 SEE CIRCUITS 8, 10, 12, 14, 16 AND 18

SYM	DESCRIPTION
W.P.	WEATHER PROOF
F.B.O.	FURNISHED BY OTHERS
U.G.	UNDERGROUND
HP	HORSE POWER
W.I.C.	WALK-IN COOLER
F'TRONS	FUSETRONS
SAF.SW.	SAFETY SWITCH
C.	CONDUIT
A.F.G.	ABOVE FINISHED GROUND
A.H.J.	AUTHORITY HAVING JURISDICTION

GENERAL NOTES

- LIGHTING: ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL GENERAL LIGHTING AS SHOWN.
- EMERGENCY BATTERY LIGHTING SHALL PROVIDE A UNIFORMLY DISTRIBUTED MINIMUM 1.0 FOOT CANDLE AVERAGE ILLUMINATION AT FLOOR LEVEL FOR PATH OF EGRESS. PROVIDE ADDITIONAL EMERGENCY LIGHTING AND INCLUDE IN YOUR BIDDING REQUIREMENTS BY AUTHORITY HAVING JURISDICTION.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE MOUNTING LOCATIONS OF LIGHT FIXTURES WITH STRUCTURAL JOIST LOCATIONS, MECHANICAL DUCT WORK, AND EQUIPMENT BEFORE STARTING WORK.
- REFER TO SHEET E6 LIGHTING CONTROL DIAGRAM FOR LIGHTING CONTROLS.

KEY NOTES

- RESTROOM LIGHTING CIRCUITS: ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL MOTION AND SOUND ACTIVATED SENSORS IN EACH RESTROOM. UNIT TO BE A "CM-PDT" WITH A "PP-20" POWER PACK. PROVIDE REQUIRED ACCESSORIES, AS MANUFACTURED BY SENSOR SWITCH, INC. OF WALLINGFORD, CT. OR EQUAL.
- PROVIDE UNDERGROUND CONDUIT FOR ELECTRICAL CIRCUITS TO EXTERIOR PATIO LIGHTING.
- LED LIGHTING: ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL A JUNCTION BOX IN AN ACCESSIBLE AREA ABOVE THE FINISHED CEILING. PROVIDE THRU-WALL CONNECTION FROM LED TO JUNCTION BOX. ALL CONNECTIONS, WALL PENETRATIONS, ETC. MUST BE WATER TIGHT AND COMPLY WITH PREVAILING CODES. ELECTRICAL CONTRACTOR TO MAKE ALL CONNECTIONS REQUIRED TO PROPERLY INSTALL LED. LED TO BE 24V, 31.5 WATTS PER LINEAL FOOT; INSTALL IN A DRY ROOM, SEE EXTERIOR ELEVATIONS. L.E.D. SUPPLIED THRU H.U.C. AND INSTALLED BY ELECTRICAL CONTRACTOR.
- TO PROVIDE JUNCTION BOX WITH DISCONNECT SWITCH IN ACCESSIBLE CEILING SPACE AND RUN 12" FLEXIBLE SEAL TIGHT CONDUIT THROUGH EXTERIOR WALL TO SIGNAGE CONNECTION. AFTER SIGN HAS BEEN INSTALLED, FIELD VERIFY BEST MOUNTING LOCATION FOR JUNCTION BOX AND SIGN REQUIREMENTS WITH SUPPLIER AND ARCHITECTURAL DRAWINGS. MAKE FINAL CONNECTION AS REQUIRED.
- PROVIDE (3) SINGLE POLE WALL SWITCHES (ON/OFF OR DIMMER) IN THIS AREA. DIMMER SWITCH "a" TO CONTROL KITCHEN LIGHTING CIRCUIT LB-24 (UNLESS OTHERWISE INDICATED ON PLAN); ON/OFF SWITCH "b" TO CONTROL DINING ACCENT LIGHTING CIRCUIT LB-28; DIMMER SWITCH "c" TO CONTROL DINING GENERAL LIGHTING CIRCUIT LB-12. ALL LIGHTING CONTROLLED VIA WALL SWITCH SHALL ALSO BE CONTROLLED VIA TIMELOCK SYSTEM INTEGRATED INTO ELECTRICAL PANEL SYSTEM. VERIFY REQUIREMENTS WITH MANUFACTURER AND VERIFY TIMELOCK SETTINGS WITH OWNER PRIOR TO COMMENCING WORK. VERIFY EXACT SWITCH BANK LOCATION WITH OWNER PRIOR TO COMMENCING WORK.
- FIXTURES DENOTED "EM" TO INCLUDE EMERGENCY BALLAST. BALLAST TO PROVIDE FULL OUTPUT. FIXTURES SHALL BE CONNECTED AHEAD OF ANY SWITCHES.
- EXHAUST HOOD LIGHTING FIXTURE(S) INSTALLED BY HOOD MANUFACTURER, FINAL ELECTRICAL CONNECTION BY ELEC. CONTRACTOR.
- INTERIOR CEILING MOUNTED (OFF-WHITE) AND EXTERIOR BACK SIDE OF EYEBROW MOUNTED (BLACK) SPEAKER LOCATIONS. "MUZAK" SYSTEM PKG. INCLUDES SPEAKERS, RECEIVER, CABLING AND INSTALLATION AND IS PROVIDED BY THE OWNER AND INSTALLED BY MUZAK SYSTEM INSTALLER. SEE NATIONAL VENDORS LIST FOR SYSTEM NATIONAL ACCOUNT PRICING & INSTALLATION COORDINATION.
- E.C. TO PROVIDE JUNCTION BOX LOCATED IN ACCESSIBLE CEILING SPACE AND FLEXIBLE SEAL TIGHT CONDUIT THROUGH EXTERIOR WALL/OUTRIGGER FRAMES TO UP LIGHTS AND DOWN LIGHTS MOUNTED ON OUTRIGGER FRAME SYSTEM AFTER FRAME HAS BEEN INSTALLED. E.C. TO COORDINATE MOUNTING WITH OTHER TRADES FOR BEST MOUNTING AND ROUTING OF CONDUIT.
- WALK-IN COOLER/FREEZER LIGHTING PROVIDED BY WALK-IN MANUFACTURER, INSTALLED BY ELECTRICAL CONTRACTOR.

PLAN SYM.	LOCATION	FIXTURE	FIXTURE CATALOG NUMBER	LAMP MFR.	LAMP CATALOG NUMBER	LAMP WATTAGE	QTY OF LAMPS	MOUNT	REMARKS
AA	DINING AREA	MORGAN HOPE	MH-PEN2-BLK-WCC	YCP	LD112265A1930K	11W	3	PENDANT	CORNER BOOTH ONLY, MOUNT BOTTOM AT 72" AFF
AA1	DINING AREA	MORGAN HOPE	MH-PEN1-BLK-RS	YCP	LD112265A1930K	11W	1	PENDANT	SEE PLAN FOR BOTTOM OF FIXTURE MOUNTING HEIGHT
AA2	DINING AREA	LIGHTOLIER	9023BK	PHILIPS	13PAR305/END/36 3000 DM 6/1	13W	1	CEILING	DIRECTIONAL PROVIDED WITH 6190BK CEILING MOUNT
AA3	DINING AREA	LIGHTOLIER	BASIC LYNESIAN 1 CIRCUIT TRACK MATTE BLACK	-	-	-	-	CEILING	USED WITH "AA1" & "AA2", VERIFY LENGTHS REQUIRED
BB	DINING AREA	CURRENT BY GE	LV1244040M33VOL7WHTIE	-	-	30.5W	-	CEILING, LAY-IN	2x4
BBE	DINING AREA	CURRENT BY GE	LV1244040M33VOL7WHTIE-EL	-	-	30.5W	-	CEILING, LAY-IN	2x4 W/ EMERGENCY BATTERY BACKUP
CC	LIGHT TRACK	WAC LIGHTING	6" H-TRACK BLACK OR 6" H-TRACK BLACK	-	-	-	-	CEILING	USED WITH "A", VERIFY LENGTH REQUIRED
DD	EXTERIOR ACCENT SCIENCE	MOH DESIGNS	000005	SYLVANIA	LD112265A1930K	-	13W	-	-
DF	DINING AREA	LUM-TECH	LH-370 WITH LT-3065N	GE	35196 LED 720MRX183035 3000K	7W	1	RECESSED	DIRECTIONAL DOWNLIGHT
GG	WALK-IN	PARADIGM	PV18-4L8-0H-WH	SYLVANIA	F032/750/ECO	128W	4	SURFACE	REMODEL
HH	DINING AREA	CURRENT BY GE	LX081083340/FRAMER	-	-	12W	-	RECESSED	AMBIENT DOWNLIGHT
HE	DINING AREA	CURRENT BY GE	LX081083340-LX0810T0/FRAMER	-	-	12W	-	RECESSED	AMBIENT DOWNLIGHT W/ EMERGENCY BATTERY BACKUP
JJ	KITCHEN	TROY-CSL	KL1841 22" HEAT LAMP CLEAR BRUSHED METAL	-	SHAT-S-SHIELD 0170W 2000K/40/1 SHATTER RESISTANT CLEAR HEAT LAMP	-	1	TRACK	USE WITH TRACK "CC", 22" CORD LENGTH
JJ1	KITCHEN	TROY-CSL	KL1842 24" HEAT LAMP CLEAR BRUSHED METAL	-	SHAT-S-SHIELD 0170W 2000K/40/1 SHATTER RESISTANT CLEAR HEAT LAMP	-	1	TRACK	USE WITH TRACK "CC", 74" CORD LENGTH
LL	KITCHEN & STORAGE	LSB INDUSTRIES	ELP224 LED 40 UE	-	-	40W	-	-	2x4 W/ ACRYLIC LENS
LLF	KITCHEN & STORAGE	LSB INDUSTRIES	ELP224 LED 40 UE EM	-	-	40W	-	-	2x4 W/ ACRYLIC LENS & EMERGENCY BATTERY BACKUP
MM	EXTERIOR WALL	MORGAN HOPE	DC-MH5MP0-18ARM-BLK	-	-	15W	1	WALL, SURFACE	DOWN LIGHT HIGHLIGHTING MARKETING POSTERS
NN	EXTERIOR SERVICE ENTRY	KEENE	LP7T OPTIONAL PHOTOCELL: P105A	-	-	13W	-	WALL, SURFACE	CENTERED OVER DOORWAY
P	DT EYEBROW (GRAY)	MORGAN HOPE	DC-MH5M0-GRY-45 SINGLE HEAD	-	-	15W	1	SURFACE	MOUNTED IN EYEBROW, SEE PLAN FOR DIRECTION OF "SHINE" UP OR DOWN
PP	DT EYEBROW (GRAY)	MORGAN HOPE	DC-MH5M0-GRY-45-DB DOUBLE HEAD	-	-	30W	2	SURFACE	MOUNTED IN EYEBROW, SEE PLAN FOR DIRECTION OF "SHINE" UP OR DOWN
Q	EYEBROW (BLACK)	MORGAN HOPE	DC-MH5M0-BLK-45 SINGLE HEAD	-	-	15W	1	SURFACE	MOUNTED IN EYEBROW, SEE PLAN FOR DIRECTION OF "SHINE" UP OR DOWN
QO	EYEBROW (BLACK)	MORGAN HOPE	DC-MH5M0-BLK-45-DB DOUBLE HEAD	-	-	30W	2	SURFACE	MOUNTED IN EYEBROW, SEE PLAN FOR DIRECTION OF "SHINE" UP OR DOWN
RR	EXT. EMERGENCY	EXTROTEK	WLED-U-WH-EL90	-	-	2.5W	1	WALL/CEILING	LOCATIONS TO COMPLY WITH PREVAILING CODES
SS1	PARKING LOT	VISIONARE LIGHTING	VMX-1-T3-64LC-7-SK-LAY-AM-BZ POLE: SWTS-45-11-25-128C-138-51-92	-	-	140W	-	POLE	SEE PROJECT SITE PLANS FOR LOCATIONS - THIS ITEM HAS A 4 WEEK LEAD TIME.
SS2	PARKING LOT	VISIONARE LIGHTING	(2)VMX-1-T3-64LC-7-SK-LAY-AM-BZ POLE: SWTS-45-11-25-128C-138-52-92	-	-	280W	-	POLE	SEE PROJECT SITE PLANS FOR LOCATIONS - THIS ITEM HAS A 4 WEEK LEAD TIME.
TT	PATIO	SEA GULL LIGHTING	89729-12 (BLACK) 1 LAMP OUTDOOR POST LANTERN, POST INCLUDED	GE LIGHTING	78041 LED120A21/830	12W	1	POST	7'-0" DIRECT BURIAL POST - SEE PROJECT SITE PLAN
VV	EXTERIOR	LIGHTOLIER	LV-L-W-RR	-	-	5.5W	2	WALL	NET LOCATION LISTED EMERGENCY EGRESS LIGHT FIXTURE WITH BATTERY HEATER

NOTES:

- ALL FIXTURES AVAILABLE THROUGH H.U.C. SEE NATIONAL VENDORS LIST FOR CONTACT INFORMATION.
- WIRING METHODS FOR ALL RECESSED LIGHT FIXTURES SHALL BE CONDUIT, UNLESS OTHERWISE NOTED. J-BOXES WITH FLEX DROPS (PER ARTICLES 410, 370, 350, 300, ETC.) 2002 NEC.
- FIXTURES & VARIOUS ELECTRICAL DEVICES SHALL BE INSTALLED IN CEILING WITH PROPER SELF SUPPORTING METHODS (OPPOSITE CORNERS OF 2x4 FIXTURES TO BE SUPPORTED INDEPENDENTLY WITH WRES FROM ROOF STRUCTURE). 2002 NEC.
- VERIFY WITH LOCAL GOVERNING OFFICIALS THE LOCATIONS OR ADDITIONS OF "EMERGENCY LIGHTING" AND PROVIDE.
- THE FOLLOWING FIXTURES ARE RATED AT 120V: AA, CC, EE, FF, AND UU.
- NOT ALL LIGHT FIXTURES MAY BE USED.

NEW BUILDING FOR:

 INTERSECTION OF DAVENPORT & ALDEN AVENUE
 BREMEN, MN 55114
 CELL # 252 0065
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ELECTRICAL LIGHTING PLAN

SHEET NUMBER:
E2