

MILWAUKEE MAKERSPACE

BUILDING ALTERATIONS



Milwaukee Makerspace Building Alteration

2517 E. Norwich Ave.
St. Francis, WI 53235

ISSUANCE:
REVIEW

[illegible]

HEET TITLE:

TITLE PAGE

OB NO.:

R2003

DATE: _____

4-MAY-2020

SHEET NO.:

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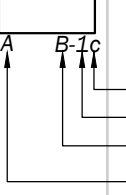





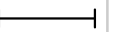


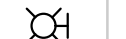











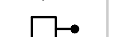


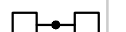




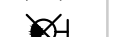


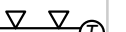


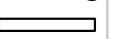




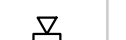

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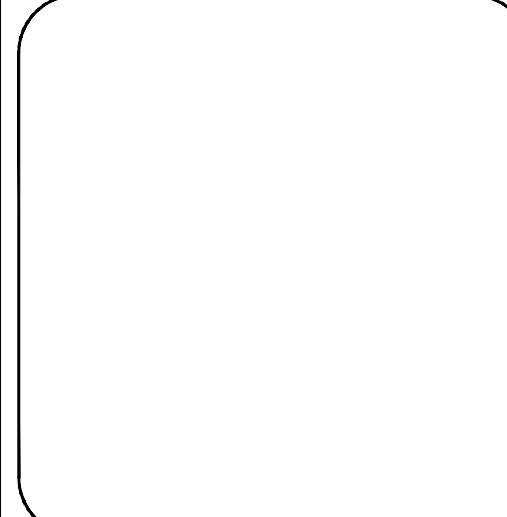
E0.0	TITLE SHEET
E1.1	MAIN LEVEL PLAN - LIGHTING
E1.2	SECOND LEVEL AND BASEMENT PLAN - LIGHTING

ELECTRICAL ABBREVIATIONS

ABV	ABOVE	HVC	HEATING VENTILATING CONTRACTOR
AFF	ABOVE FINISHED FLOOR	J-BOX	JUNCTION BOX
AIC	AVAILABLE INTERRUPTING CURRENT	LCP	LIGHTING CONTROL PANEL
AIE	ARCHITECT/ENGINEER	LG	LAY-IN GRID
ALT	ALTERNATE	LTG	LIGHTING
ARCH	ARCHITECT	LV	LOW VOLTAGE
ATS	AUTOMATIC TRANSFER SWITCH	LVT	LINE VOLTAGE THERMOSTAT
BLDG	BUILDING	MAG	MAGNETIC STARTER
BD	BUSDUCT	MAN	MANUAL STARTER
CA-TV	CABLE TELEVISION	MCC	MOTOR CONTROL CENTER
CC-TV	CLOSED CIRCUIT TELEVISION	MDP	MAIN DISTRIBUTION PANEL
CB	CIRCUIT BREAKER	MLO	MAIN LUGS ONLY
CKT	CIRCUIT	MSB	MAIN SWITCHBOARD
CLG	CEILING	MTD	MOUNTED
CM	COFFEE MAKER	MW	MICROWAVE
CP	CONTROL PANEL	NIC	NOT IN CONTRACT
D	DEDICATED	PB	PUSHBUTTON
DISC	DISCONNECT	PEND	PENDANT
EC	ELECTRICAL CONTRACTOR	PC	PHOTO CONTROL
ELEV	ELEVATION REFERENCE	PLBG	PLUMBING CONTRACTOR
EM	EMERGENCY	PNL	PANEL
EP	EXPLOSION PROOF	RAI	REMAIN AS IS
ER	EXISTING TO BE REMOVED	REC	RECESS
ERL	EXISTING TO BE RELOCATED	RECEPT	RECEPTACLE
ERLD	EXISTING RELOCATED	REF	REFRIGERATOR
ETR	EXISTING TO REMAIN	RM	ROOM
FAAP	FIRE ALARM ANNUNCIATOR PANEL	SURF	SURFACE
FACP	FIRE ALARM CONTROL PANEL	SW	SWITCH
FDR	FEEDER	TCP	TEMPERATURE CONTROL PANEL
FIXT	FIXTURE	TCC	TEMPERATURE CONTROL CONTRACTOR
FLR	FLOOR	TR	TAMPER RESISTANT
FS	FLOW SWITCH	TS	TAMPER SWITCH
GC	GENERAL CONTRACTOR	TV	TELEVISION
GFI	GROUND FAULT INTERRUPTER	TYP	TYPICAL
GRC	GALVANIZED RIGID CONDUIT	UG	UNDERGROUND
GRD	GROUND	UNIV	UNIVERSAL
HP	HORSEPOWER	USS	UNIT SUBSTATION
HV	HIGH VOLTAGE	WP	WEATHERPROOF
HVAC	HEATING & VENTILATING - AIR CONDITIONING	XFMR	TRANSFORMER

SYMBOLS LIST

LIGHTING FIXTURES:		LIGHTING CONTROLS:		GENERAL DEVICES:	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CEILING MOUNTED FIXTURE		SINGLE POLE SWITCH - MOUNT AT 48" AFF, UNLESS NOTED OTHERWISE CIRCUIT SWITCH LEG		DUPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS NOTED OTHERWISE
	CEILING MOUNTED FIXTURE - SHADING INDICATES FIXTURE WIRED TO EMERGENCY OR NIGHT LIGHTING CIRCUIT		DOUBLE POLE		DUPLEX RECEPTACLE - MOUNTED 4" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHEN PRESENT
	STRIP LIGHT		3 WAY SWITCH		CIRCUIT NUMBER
	WALL SURFACE		SINGLE POLE SWITCH W/ TIMER		SPECIAL OUTLET
	CEILING SURFACE		DUAL LEVEL SWITCHING		DRAWING REFERENCE NOTE
	CEILING MOUNTED DOWNLIGHT		SINGLE POLE PILOT LIGHT SWITCH		MOTOR CONNECTION
	LIGHT FIXTURE - DIRECTIONAL		SINGLE POLE SWITCH W/ OCCUPANCY SENSOR		JUNCTION BOX
	LIGHT POLE - 1 LUMINAIRE		DAYLIGHT SENSOR		DISCONNECT SWITCH
	LIGHT POLE - 2 LUMINAIRE		VACANCY SENSOR		TRANSFORMER
	EXIT LIGHT	TYPE: 1 - CORNER MTD DUAL-TECH 2 - 360° CEILING MTD DUAL-TECH 3 - 360° CEILING MTD IR OCCUPANCY SENSOR			CIRCUIT/FEEDER IDENTIFICATION REFER TO FEEDER SCHEDULE AND ONE-LINE DIAGRAM
	WALL MOUNTED EXIT LIGHT		PHOTO CONTROL		PANELBOARD
	LIGHT TRACK		LOW VOLTAGE SWITCH		DATA (ROUGH IN ONLY)
	WALL MOUNTED FIXTURE		CIRCUIT SWITCH LEG LIGHTING CONTROL CONTACTOR		CARD READER
	EMERGENCY BATTERY POWER - DUAL HEAD				DOOR STRIKE
	BATTERY POWERED REMOTE HEAD				EMER



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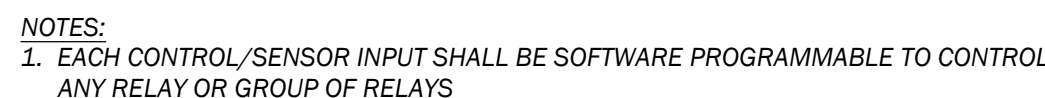


MAIN LEVEL - LIGHTING

1

ABBREVIATIONS:													
DM = DIMMING	LG = LAY-IN GRID	R = RECESS	ST = STANDARD										
DW = DRYWALL	MG = MAGNETIC	RM = REMOTE	V = VARIES										
ET = ELECTRONIC	OT = OTHER	S = SURFACE	WM = WALL MOUNTED										
FL = FLUORESCENT	PD = PENDANT	SD = STEP DIMMING											
DWG ID	DESCRIPTION	LAMPS/LEDS				BALLASTS/DRIVER		CEILING TYPE	MOUNTING	FIXTURE VOLTAGE	MANUFACTURER PART NUMBER	NOTES	
		TYPE	NO.	K	WATTS	TYPE	NO.						
A	LED LINEAR LIGHT FIXTURE	LED	NA	5000	30	DRIVER	1	OPEN	S	120	LONGVUNG LY-TSSL200-30W	2	
B	LED 2x4 TROFFER	LED	NA	4000	50	DRIVER	1	LG	R	120	GLLUSA PL-50W-126-28-TG-05	2	
OA	OUTDOOR LED WALL PACK EMERGENCY EGRESS FIXTURE WITH COLD WEATHER RATED BATTERY	LED	NA	4000	15	DRIVER	1	NA	WM	120	TRACE LITE SLW-15-4K EM1 OR APPROVED EQUAL	1	
OB	OUTDOOR LED WALL PACK FIXTURE	LED	NA	4000	44	DRIVER	1	NA	WM	120	LITHONIA LIGHTING TWH LED AL0 40K OR APPROVED EQUAL	1	
OC	OUTDOOR 6" LED DOWNLIGHT FIXTURE	LED	NA	3500	22	DRIVER	1	NA	R		LITHONIA LIGHTING LDN SERIES OR APPROVED EQUAL	3	
XA	LED EXIT SIGN - WALL MOUNT	LED	NA	NA	1	NA	NA	NA	WM	120	LITHONIA LIGHTING EXR LED EL M6 OR APPROVED EQUAL		
XB	LED EXIT SIGN - CEILING MOUNT	LED	NA	NA	1	NA	NA	NA	S	120	LITHONIA LIGHTING EXR LED EL M6 OR APPROVED EQUAL		
XC	LED EXIT SIGN/EMERGENCY LIGHT COMBO	LED	NA	NA	1.4	NA	NA	NA	WM	120	LITHONIA LIGHTING ECC R M6 OR APPROVED EQUAL		
EBU	EMERGENCY BATTERY UNIT	LED	NA	NA	6.6	NA	NA	NA	V	120	LITHONIA LIGHTING ELM4L OR APPROVED EQUAL		

1. CONFIRM MOUNTHING HEIGHT WITH OWNER
2. FIXTURE PURCHASED AND FURNISHED BY OWNER
3. CONFIRM CEILING TYPE WITH OWNER



LIGHTING CONTROL PANEL – WIRING DIAGRAM
NTS

1. REFER TO FIXTURE SCHEDULE ON THIS DRAWING FOR FIXTURE DETAILS.
2. REFER TO DETAIL "2" ON THIS DRAWING FOR LIGHTING CONTROL PANEL WIRING DETAIL.
3. CIRCUIT ALL LIGHTING FIXTURES TO INDICATED PANELS AND THROUGH THE LIGHTING CONTROL PANEL AS INDICATED ON THE DRAWINGS UNLESS NOTED OTHERWISE.
4. COORDINATE FIXTURE LOCATIONS WITH ALL OTHER TRADES.
5. CONNECT EMERGENCY BATTERY EGRESS UNITS AND EMERGENCY EXIT SIGN FIXTURES TO INDICATED CIRCUITS. DO NOT SWITCH EMERGENCY EGRESS FIXTURES.
6. PROVIDE LOW VOLTAGE MOMENTARY OVER-RIDE SWITCHES AT APPROXIMATE INDICATED LOCATIONS TO CONTROL FIXTURES AS INDICATED ON THE DRAWINGS. CONFIRM FINAL LOCATIONS WITH OWNER.
6. ALL CIRCUIT NUMBERS INDICATED ARE ARBITRARY FOR LOADING PURPOSES ONLY. UTILIZE AVAILABLE CIRCUITS IN PANELS.
7. ALL WORK SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.
8. LIGHTING CONTROL DEVICES INDICATED ON THE PLANS SHALL CONTROL LIGHTING FIXTURES IN THE SAME SPACE AS INDICATED ON THE PLANS UNLESS NOTED OTHERWISE.
9. CONFIRM ALL MOUNTING HEIGHTS WITH OWNER.

1. PROVIDE DAYLIGHT CONTROL SENSOR TO DIM LIGHT CONTINUOUSLY FROM FULL LIGHT OUTPUT TO 15 PERCENT OF FULL LIGHT OUTPUT POWER OR LOWER.
2. WIRE LIGHT FIXTURE(S) TO CONTROL VIA DAYLIGHT SENSOR INDICATED IN THE AREA.



REVIEW

NO.	DATE:	REVISION
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2ND LEVEL & BASEMENT PLAN - LIGHTING

4-MAY-2020

E1.2