

Lighting Control System Matrix																
Space Type	Manual On	Manual Off	Dimming Switch	Time Schedule On	Time Schedule Off	Occupancy Sensor On	Occupancy Sensor Off	Exterior Photocontrol On	Exterior Photocontrol Off	Daylight Sensor	Digital Time Switch	Multizone Control	Integral Fixture Sensor	Centralized Relay Control	Distributed Relay Control	Sequence of Operation
Electrical Room A171	X	X														1
Training Room A174, A175, Product Evaluation A173, Office A113			X			X	X								X	2
Prep Area A172			X			X	X					X			X	3
Innovation A101, Training A102			X			X	X								X	2

SEQUENCE OF OPERATION	
1	ON BY SWITCH, OFF BY SWITCH.
2	DURING UNOCCUPIED HOURS: ON TO 50% BY SENSOR, OFF BY SENSOR AFTER 30 MINUTES OF VACANCY. EMERGENCY POWERED FIXTURES, SAME AS ABOVE EXCEPT ON TO 100% ON POWER FAIL.
3	ON TO 50% LEVEL BY SENSOR, MULTI-ZONE DIMMER SWITCH ALLOWS MANUAL ADJUSTMENT OF INDIVIDUAL ZONES, OFF AFTER 15 MINUTES OF VACANCY. EMERGENCY POWERED FIXTURES, SAME AS ABOVE EXCEPT ON TO 100% ON POWER FAIL.

LIGHTING FIXTURE SCHEDULE										
FIXTURE TYPE	DESCRIPTION	FIXTURE DATA				MOUNTING		LAMP DATA		REF. NOTES
		MANUFACTURER	CATALOG NO.			VOLTS	QTY	TYPE	WATTAGE	
D	ORANGE PCEL DECORATIVE PENDANT	JUNO	DPEND-MP-G2-P316-OPEEL-78NH-LED-12-30K-80CRI-SNC		PENDANT	120/12	-	380 LUMEN LED	6	1
E	LENS STRIP LIGHT	COOPER METALLUX	4SNLED-LD5-30SL-LW-UNV4-L835		SURFACE	277	1	LED 3000 LUMEN	21	
F	LED TAPE LIGHT	TIVOLI	TLPL-HO-4-4-4-35-C-24+PSU WITH INF-CLNS-8		SURFACE	120/24	-		4.4/FT	2
F	2' X 7' LENSED TROFFER	METALLUX	22GR4-LD5-36-A-UNV4-835-CD-1		RECESSED	277	-	2029 LUMEN LED	34.6	
F3E	TYPE F3 WITH EMERGENCY CONTROL DEVICE	METALLUX/OTA	404 IOTA ETS-DR TO CATALOG NUMBER ABOVE		RECESSED	277	-	2029 LUMEN LED	34.6	
Q2	RECESSED 2' X 2' - 3500 LUMEN	FOCAL POINT	FMAL-2A-4R-35-48-158K-GU-PAV4-D1-63-4H		RECESSED	277	-	3500 LUMEN LED	34.6	
Q2E	TYPE G2 WITH EMERGENCY CONTROL DEVICE	FOCAL POINT/OTA	404 IOTA ETS-DR TO CATALOG NUMBER ABOVE		RECESSED	277	-	3500 LUMEN LED	34.6	
H	PENDANT	EUREKA	4026A-LED-4-35-48-120-DP-86-36-RC-CHR-SA-BLKA		SURFACE	120	1	LED	4.8	3
J	ANGLED PENDANT	EUREKA	4026A-LED-8-35-48-120-DP-86-36-RC-CHR-SA-BLKA		SURFACE	120	1	LED	9.9	3, 4
K2	6" DOWNLIGHT	FOCAL POINT	FLC6D-RD-1000L-277V4-11-T-1 LC6-RD-1000L-935-DN-CD-NP		RECESSED	277	-	1000 LUMEN LED	10.9	
X1	LED SINGLE FACE POLYCARBONATE EXIT - AC ONLY	SURE-LITES	LPX-6		VARIES	277	-	INCLUDED	1.04	
X10	LED DOUBLE FACE POLYCARBONATE EXIT - AC ONLY	SURE-LITES	LPX-6		VARIES	277	-	INCLUDED	1.04	
X20	LED DOUBLE FACE POLYCARBONATE EXIT - AC ONLY	SURE-LITES	LPX-6		VARIES	277	-	INCLUDED	1.04	

SCHEDULE REFERENCE NOTES:

1. PROVIDE PENDANT IN BETWEEN ARCHITECTURAL CEILING SPOKES. PROVIDE 120V TO 12V TRANSFORMERS AND ACCESSORIES FOR A COMPLETE SYSTEM AS NEEDED. SHORTEN CORD AS NEEDED.
2. PROVIDE LED STRIP IN (8) TWO FOOT SECTIONS. MOUNT UNDERCOUNTER ABOVE FROSTED GLASS PANELS BETWEEN COUNTER SUPPORT LEGS. PROVIDE DIMMABLE DRIVER, COUPLERS AND ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION. DRIVER AND CONNECTORS TO BE CONCEALED IN ACCESSIBLE SPACE BEHIND COUNTER. TAPE TO BE MOUNTED ON 45 DEGREE MOUNTING CHANNEL, TPL4-MCH-8.
3. PROVIDE 36" FIELD CUTTABLE STEM. MOUNT FIXTURE SUCH THAT THE BOTTOM OF THE LIGHT FIXTURE IS AT THE SAME ELEVATION AS THE BOTTOM OF THE TRELLIS.
4. ALLOW FOR AIMING LIGHT FIXTURE TO PROPERLY ILLUMINATE CHEF DURING VIDEO RECORDING. COORDINATE WITH ESI CONSTRUCTION MANAGER.

OCCUPANCY SENSOR SCHEDULE							
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	MOUNTING	COVERAGE	NOTES
A	LOW VOLTAGE DUAL TECHNOLOGY CEILING SENSOR	WATTSTOPPER	LMDC-100	24V	CEILING	1000 SQ. FEET	1

NOTES:
 1. SENSORS SHALL BE USED AS INPUTS TO LIGHTING CONTROL SYSTEM.

TAG	POSITION	DEVICE TYPE	DESCRIPTION	RELAY/CIRCUITS CONTROLLED
1	1	PUSHBUTTON	INNOVATION LIGHTS ON/OFF	DR-2
	2	PUSHBUTTON	TRAINING LOBBY ON/OFF	DR-1
	3	PUSHBUTTON	DIM UP	DR-1, DR-2
	4	PUSHBUTTON	DIM DOWN	DR-1, DR-2
2	1	PUSHBUTTON	TRAINING ROOM 2 LIGHTS ON/OFF	DR-3
	2	PUSHBUTTON	DIM UP	DR-3
	3	PUSHBUTTON	DIM DOWN	DR-3
	4	PUSHBUTTON	-	-
3	1	PUSHBUTTON	TRAINING ROOM 1 LIGHTS ON/OFF	DR-4
	2	PUSHBUTTON	DIM UP	DR-4
	3	PUSHBUTTON	DIM DOWN	DR-4
	4	PUSHBUTTON	-	-
4	1	PUSHBUTTON	TRAINING ROOM 1 LIGHTS ON/OFF	DR-4
	2	PUSHBUTTON	TRAINING ROOM 2 LIGHTS ON/OFF	DR-3
	3	PUSHBUTTON	DIM UP	DR-3, DR-4
	4	PUSHBUTTON	DIM DOWN	DR-3, DR-4
5	1	PUSHBUTTON	COUNTER FACE	DR-6
	2	PUSHBUTTON	ORANGE LIGHTS	DR-8
	3	PUSHBUTTON	DOWN LIGHTS	DR-9
	4	PUSHBUTTON	CHEF	DR-7
6	1	PUSHBUTTON	TROFFERS	DR-5
	2	PUSHBUTTON	-	-
	3	PUSHBUTTON	-	-
	4	PUSHBUTTON	-	-
	5	PADLOCK	PRODUCT EVALUATION UP/DOWN	DR-5,6,7,8,9
7	1	PUSHBUTTON	PREP AREA	DR-10
	2	PUSHBUTTON	DIM UP	DR-10
	3	PUSHBUTTON	DIM DOWN	DR-10
	4	PUSHBUTTON	-	-
8	1	PUSHBUTTON	OFFICE A113 ON/OFF	DR-11
	2	PUSHBUTTON	DIM UP	DR-11
	3	PUSHBUTTON	DIM DOWN	DR-11

NOTES:
1. SEE PLANS FOR QUANTITIES OF STATIONS.

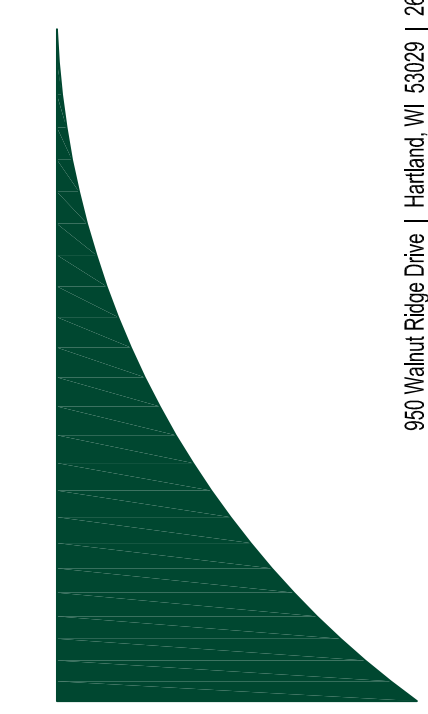
"DR" DISTRIBUTED RELAY SCHEDULE					
RELAY NO.	DIMMER MODULE	CIRCUIT NO.	DESCRIPTION	CONTROL	
				LOCAL	MASTER
1	YES	H3-2	TRAINING LOBBY	LVS/DIMMER	TIMECLOCK
2	YES	H3-2	INNOVATION	LVS/DIMMER	TIMECLOCK
3	YES	H2-4	TRAINING ROOM 1	LVS/DIMMER	TIMECLOCK
4	YES	H2-4	TRAINING ROOM 2	LVS/DIMMER	TIMECLOCK
5	YES	H2-4	PRODUCT EVALUATION	LVS/DIMMER	TIMECLOCK
6	YES	K-1	PRODUCT EVALUATION FRONT COUNTER	LVS/DIMMER	TIMECLOCK
7	YES	K-1	PRODUCT EVALUATION COUNTER SPOTS	LVS/DIMMER	TIMECLOCK
8	YES	K-1	PRODUCT EVALUATION COUNTER PENDANTS	LVS/DIMMER	TIMECLOCK
9	YES	K-1	PRODUCT EVALUATION COUNTER DOWN LIGHTS	LVS/DIMMER	TIMECLOCK
10	YES	H2-4	PREP AREA	LVS/DIMMER	TIMECLOCK
11	YES	H2-4	OFFICE A113	LVS/DIMMER	TIMECLOCK

NOTES:

1. PROVIDE NETWORK CONNECTION BETWEEN ALL DISTRIBUTED RELAYS.

2. PROVIDE ALL NECESSARY SYSTEM COMPONENTS FOR MASTER TIME CLOCK AND TO CONNECT COMPUTER TO THE LIGHTING CONTROL SYSTEM FOR CONFIGURATION AND TIME SCHEDULE CHANGES.

ESI
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ENGINEERING
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DATE 1-6-20	JOB NO. 50-1414-19
DWG By: EGP	CHKD By: TJM

SHEET TITLE
SCHEDULES

PRELIMINARY DWGS.	
FINAL CONST. DWGS.	
SHEET NUMBER	

E802

ELECTRICAL