

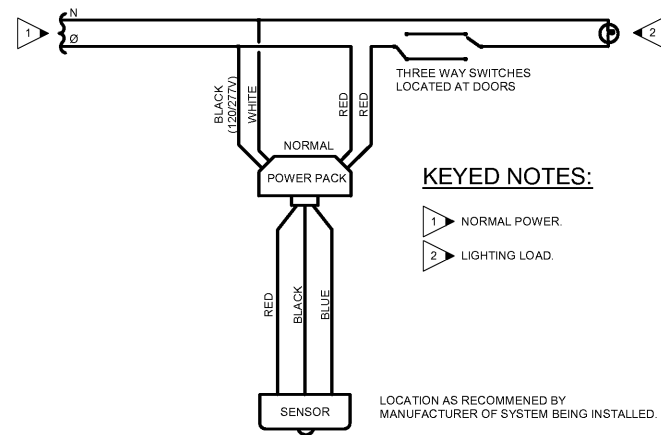
KEYED NOTES:

- 1 NORMAL LIGHTING CIRCUIT.
- 2 LIGHTING LOAD.

LOCATION AS RECOMMENDED BY MANUFACTURER OF SYSTEM BEING INSTALLED.

1 OCCUPANCY SENSOR - MULTIPLE SWITCHES SCHEMATIC WIRING DIAGRAM

E702 NO SCALE



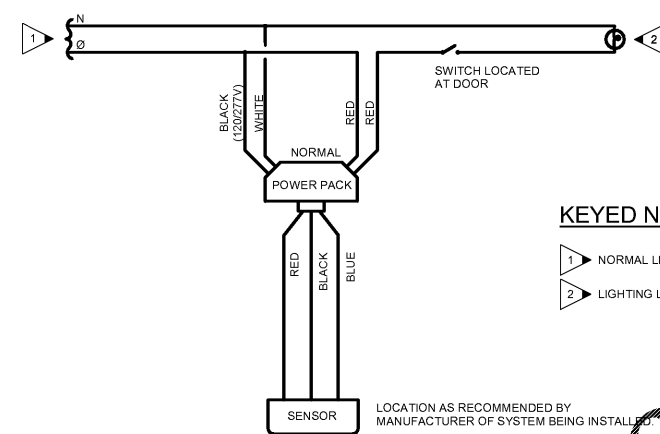
KEYED NOTES:

- 1 NORMAL POWER.
- 2 LIGHTING LOAD.

LOCATION AS RECOMMENDED BY MANUFACTURER OF SYSTEM BEING INSTALLED.

3 OCCUPANCY SENSOR - THREE-WAY SWITCHING SCHEMATIC WIRING DIAGRAM

E702 NO SCALE



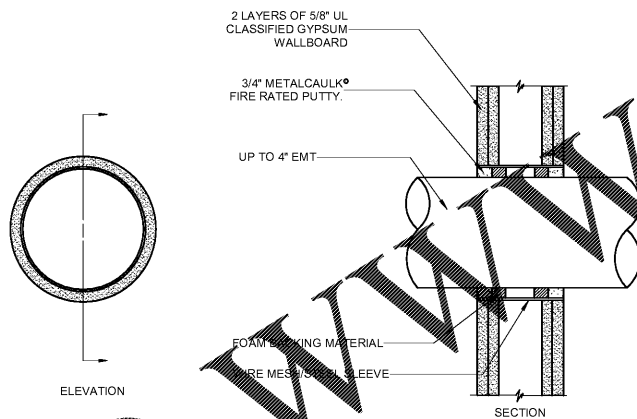
KEYED NOTES:

- 1 NORMAL LIGHTING CIRCUIT.
- 2 LIGHTING LOAD.

LOCATION AS RECOMMENDED BY MANUFACTURER OF SYSTEM BEING INSTALLED.

2 OCCUPANCY SENSOR - SWITCHING SCHEMATIC WIRING DIAGRAM

E702 NO SCALE



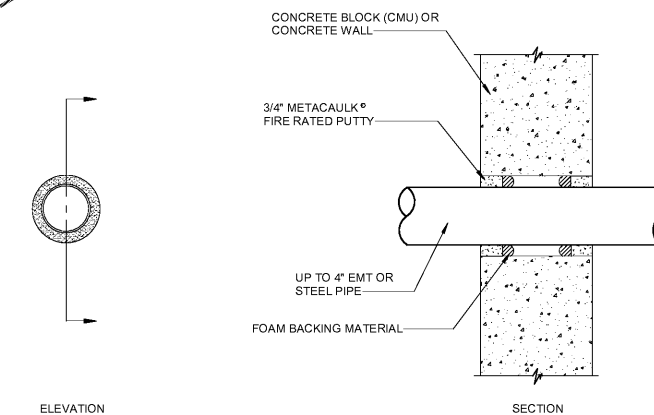
ELEVATION

SECTION

NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

4 DETAIL - GYPSUM WALLBOARD PENETRATION

E702 NO SCALE



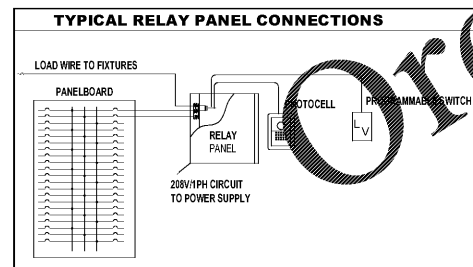
ELEVATION

SECTION

NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

5 DETAIL - CONCRETE WALL PENETRATION

E702 NO SCALE



6 TYPICAL RELAY PANEL CONNECTIONS

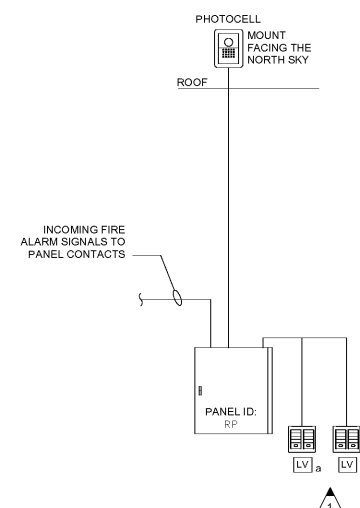
E702 NO SCALE

LIGHTING CONTROL RELAY PANEL SCHEDULE								
RELAY PANEL:	RP	MOUNTING:	SURFACE	LOAD WATTS:		PANEL CONNECTION:		
LOCATION:	MECH/ELEC 112	SCCR:	35,000 AMPS SYMMETRICAL			PANEL CKT:		
		SPECIAL:				TIME SCHED:		
RELAY No.	CONTROL TYPE	VOLTY	DESCRIPTION	LOAD WATTS	PANEL CONNECTION	PANEL CKT	TIME SCHED	NOTES
1		120	OPEN FLOOR VESTIBULE LIGHTS	300	L1	1	1	1
2	TC	120	OPEN FLOOR VESTIBULE EMER LIGHTS	135	L1	42	1	1
3	TC	120	EXTERIOR BUILDING LIGHTS	378	L1	34	1	1
4	TC	120	SITE LIGHTING	672	L1	57.58	1	1
5	TC	120	BOLLARDS	36	L1	65	1	1
6	TC	120	ITM LIGHTS		L1	5	1	1
7			SPARE					
8			SPARE					

CONTROL CODES:
 TC: TIME CLOCK
 PE: PHOTOCELL

GENERAL NOTES:
 A. LIGHTING CONTROL RELAY PANEL SHALL BE L.C.S.D. "GR1404" LT OR APPROVED EQUAL.
 B. PROVIDE "1C" FOR ETHERNET CONNECTION.
 C. PROVIDE SWITCHING BOARD (SWT).
 D. PROVIDE BUILDING MOUNTED DIGITAL OUTPUT PHOTOCELL (FCO).
 E. PROVIDE INPUT CARDS AS REQUIRED.
 F. RELAYS SHALL BE RATED FOR 30A/120V.
 G. LOCATE RP ADJACENT TO PANEL LG (2ND SECTION).

SCHEDULE NOTES:
 1. LIGHTS CONTROLLED BY PHOTOCELL AND/OR RELAY PANEL TIMER. COORDINATE PROGRAMMING WITH OWNER.



7 LOW VOLTAGE SWITCHING RISER

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LOW VOLTAGE CONTROL NOTES:

- ELECTRICAL POWER REQUIRED FOR RELAY PANELS MASTER RELAY SCANNER TO BE DERIVED FROM ELECTRICAL PANEL BEING BACKED-UP BY EMERGENCY GENERATOR.
- ALL SWITCHES SHALL HAVE ENGRAVED COVERPLATE TO DENOTE LIGHTING CONTROLLED.
- ALL RELAYS SHALL BE PROGRAMMED TO BE OVERRIDDEN VIA TIME CLOCK "AFTER HOURS" CONTRACTOR SHALL COORDINATE WITH OWNER AND DETERMINE SCHEDULING. ALL RELAYS SHALL BE ABLE TO FUNCTION "AFTER HOURS" OF BUILDING IS OCCUPIED.
- LOW VOLTAGE CABLES SHALL BE AS RECOMMENDED BY MANUFACTURER OF SYSTEM BEING INSTALLED. CABLES SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE SIZED IN ACCORDANCE WITH N.E.C.
- LOW VOLTAGE SWITCHES SHALL BE PROGRAMMED SUCH THAT THEY CAN FUNCTION AS "ON" ONLY DURING NORMAL HOURS WHEN FIRE ALARM TRANSMITS ALARM SIGNAL TO PANEL DRY CONTACT INPUT OF RELAY PANEL "RPK". ALL PANELS SHALL OVERRIDE ALL CONTROL INPUT SIGNALS IN ORDER TO ENERGIZE ALL RELAYS.
- ALL SWITCHES TO BE "CORBIN" KEY-OPERATED (NO EXCEPTIONS, UNLESS OTHERWISE NOTED) MOMENTARY LOW VOLTAGE CONTROL LIGHTING SWITCH WITH TO BE FLUSH WALL MOUNTED IN "AT 42" AFF. PROVIDE CABLING PER SPECIFICATIONS TO RELAY PANELS.
- REFER TO SPECIFICATIONS FOR FACTORY COMMISSIONING REQUIRED.
- DIVISION 28 IS RESPONSIBLE FOR REVIEWING LOW VOLTAGE SWITCHING SCHEDULE AND PROVIDING REQUIRED NUMBER OF PHASE (SWITCH/LEG) CONDUCTORS FROM PANEL RELAYS IN ORDER TO ACHIEVE SWITCHING OPTIONS AS NOTED.
- RELAY PANELS SHALL BE CONNECTED TOGETHER AND FUNCTION AS ONE COMPLETE SYSTEM.
- ALL LOW VOLTAGE SWITCHES SHALL HAVE DOUBLE GANG BACKBOX WITH ONE SIDE HOUSING CORBIN KEY AND OTHER SIDE HOUSING BUTTONS. BUTTONS WILL ONLY OPERATE WHEN CORBIN KEY HAS BEEN TURNED.
- "RPA" RELAY 1, "RPG" RELAY 1, 8, 9 AND 10, AND "RPK" RELAY 1 WILL BE CONTROLLED VIA PHOTOCELL AND TIME CLOCK. COORDINATE SCHEDULING WITH OWNER.
- PROVIDE ALL REQUIRED CABLING TO LOW VOLTAGE SWITCHES PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE NETWORK INTERFACE CARD TO CONNECT LIGHTING CONTROL SYSTEM PANELS TO OWNER'S LOCAL AREA NETWORK.

KEYED NOTES: (LOW VOLTAGE SWITCHING RISER ONLY)

- 1 SEE LIGHTING PLANS FOR QUANTITY AND LOCATION OF LOW VOLTAGE SWITCHING.

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