

CONTROL NOTES

LIGHTING CONTROL

- THE LIGHTING IN EACH ENCLOSED ROOM (TELCO, INVENTORY, MEN'S RESTROOM, WOMEN'S RESTROOM) SHALL BE CONTROLLED BY LOCAL OCCUPANCY SENSOR(S).
- THE REMAINDER OF THE LIGHTING SHALL BE CONTROLLED VIA AUTOMATIC LIGHTING CONTROL SYSTEM AND SHALL INCLUDE A 365 DAY ASTRONOMICAL TIMECLOCK. THE TIME CLOCK SHALL HAVE A NON-VOLATILE PROGRAM MEMORY. EACH LIGHTING CONTROL RELAY SHALL HAVE AN INTEGRAL OVERRIDE SWITCH THAT ALLOWS FOR INDEPENDENT OVERRIDE.
- THERE SHALL BE TWO ON/OFF SWITCHES (CONTROL FUNCTIONS) FOR THE AUTOMATIC LIGHTING CONTROL SYSTEM, DEFINED BELOW:

1 GENERAL LIGHTING FUNCTION (MANUAL ON/SCHEDULED OFF)

- SWITCH SHALL CONTROL ALL GENERAL LIGHTING LOCATED IN THE SALES AREA AND BACK OF HOUSE (BOH). WHEN PRESSED TO THE ON POSITION, ALL LIGHTING SHALL BE ENERGIZED. ONCE ENERGIZED, THE LIGHTING CONTROL SYSTEM SHALL AUTOMATICALLY DE-ENERGIZE ALL LIGHTING AT STORE CLOSE, UNLESS SWITCH IS PRESSED TO THE OFF POSITION PRIOR TO STORE CLOSE.
- SWITCH SHALL ALSO OPERATE AS A TIMED OVERRIDE. WHEN PRESSED TO THE ON POSITION BEYOND STORE CLOSE, ALL LIGHTING SHALL BE ENERGIZED FOR A MAXIMUM DURATION OF 2 HOURS.
- ALL LIGHTING SHALL BE PROGRAMMED WITH BLINK FUNCTION; 5 MINUTES PRIOR TO AUTOMATIC SHUTOFF.

2 ACCENT LIGHTING FUNCTION (MANUAL ON/SCHEDULED OFF)

- SWITCH SHALL CONTROL ALL ACCENT, FIXTURE (CASEWORK), SIGNAGE, AND SHOW WINDOW LIGHTING. WHEN PRESSED TO THE ON POSITION, ALL LIGHTING SHALL BE ENERGIZED 30 MINUTES PRIOR TO STORE OPENING. ONCE ENERGIZED, THE LIGHTING CONTROL SYSTEM SHALL AUTOMATICALLY DE-ENERGIZE ALL LIGHTING AT STORE CLOSE, UNLESS SWITCH IS PRESSED TO THE OFF POSITION PRIOR TO STORE CLOSE.
- SWITCH SHALL ALSO OPERATE AS A TIMED OVERRIDE. WHEN PRESSED TO THE ON POSITION BEYOND STORE CLOSE, ALL LIGHTING SHALL BE ENERGIZED FOR A MAXIMUM DURATION OF 2 HOURS.

3 SECURITY LIGHTING FUNCTION (AUTOMATIC ON/MANUAL OFF)

- ALARM CONDITION FROM SECURITY SYSTEM SHALL ENERGIZE ALL GENERAL LIGHTING, LIGHTING SHALL REMAIN ENERGIZED UNTIL MANUALLY DE-ENERGIZED.

4 THREE PROGRAMMED TIMED SET POINTS SHALL BE SET FOR THIS SYSTEM.

- STORE OPEN
- STORE CLOSE
- 30 MINUTES PRIOR TO STORE OPENING

5 VERIFY ALL TIMED SET POINTS WITH OWNER AND ADJUST ACCORDINGLY PER MFG RECOMMENDATIONS.

6 A DAYLIGHTING SWITCH WILL BE IMPLEMENTED AS REQUIRED BY ENERGY CODES.

7 INITIAL PROGRAMMING OF THIS SYSTEM SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, PER MFG. RECOMMENDATIONS.

NOTE: ALL LIGHTING FOR THIS PROJECT SHALL BE WIRED TO OBTAIN THE ABOVE CONTROL SYSTEM DESCRIPTIONS. COORDINATE PROGRAMMING OF AUTOMATIC LIGHTING CONTROL SYSTEM WITH MFG. PRIOR TO INSTALLING.

HVAC CONTROL

- EACH HVAC UNIT WILL BE CONTROLLED DIRECTLY FROM A PROGRAMMABLE THERMOSTAT. THE SYSTEM WILL BE CYCLED TO MAINTAIN THE ZONE TEMPERATURE SET POINT.
- THE TIME SCHEDULE FOR THE HVAC EQUIPMENT WILL BE SET TO ALLOW THE STORE TO BE AT OCCUPIED TEMPERATURES WHEN THE STORE OPENS FOR CUSTOMERS AND THEN TO UNOCCUPIED MODE WHEN THE STORE CLOSES.
- THE HVAC WILL RETURN TO OCCUPIED MODE FOR 1 HOUR WHEN AN OVERRIDE BUTTON IS PRESSED.

RESTROOM EXHAUST FAN

- THE RESTROOM EXHAUST FAN WILL BE CONTROLLED WITH THE RESTROOM'S OCCUPANCY SENSORS; 10-MINUTE OFF-DELAY.

FAN CONTROL

- THE FAN WILL BE SET TO RUN CONTINUOUS DURING STORE OPEN HOURS TO PROVIDE VENTILATION AND AIR CIRCULATION.
- IN SETBACK OR UNOCCUPIED MODE, THE FAN WILL RUN ONLY WHEN THERE IS A CALL FOR HEATING OR COOLING.

COOLING CONTROL

- THE INITIAL SET POINT FOR OCCUPIED HOURS WILL BE 75 DEGREES.
- THE INITIAL SET POINT FOR UNOCCUPIED HOURS WILL BE 85 DEGREES.
- AIR CONDITIONING SYSTEM WILL HAVE A MINIMUM ON AND MINIMUM OFF TIME OF TWO MINUTES TO PREVENT SHORT CYCLING.

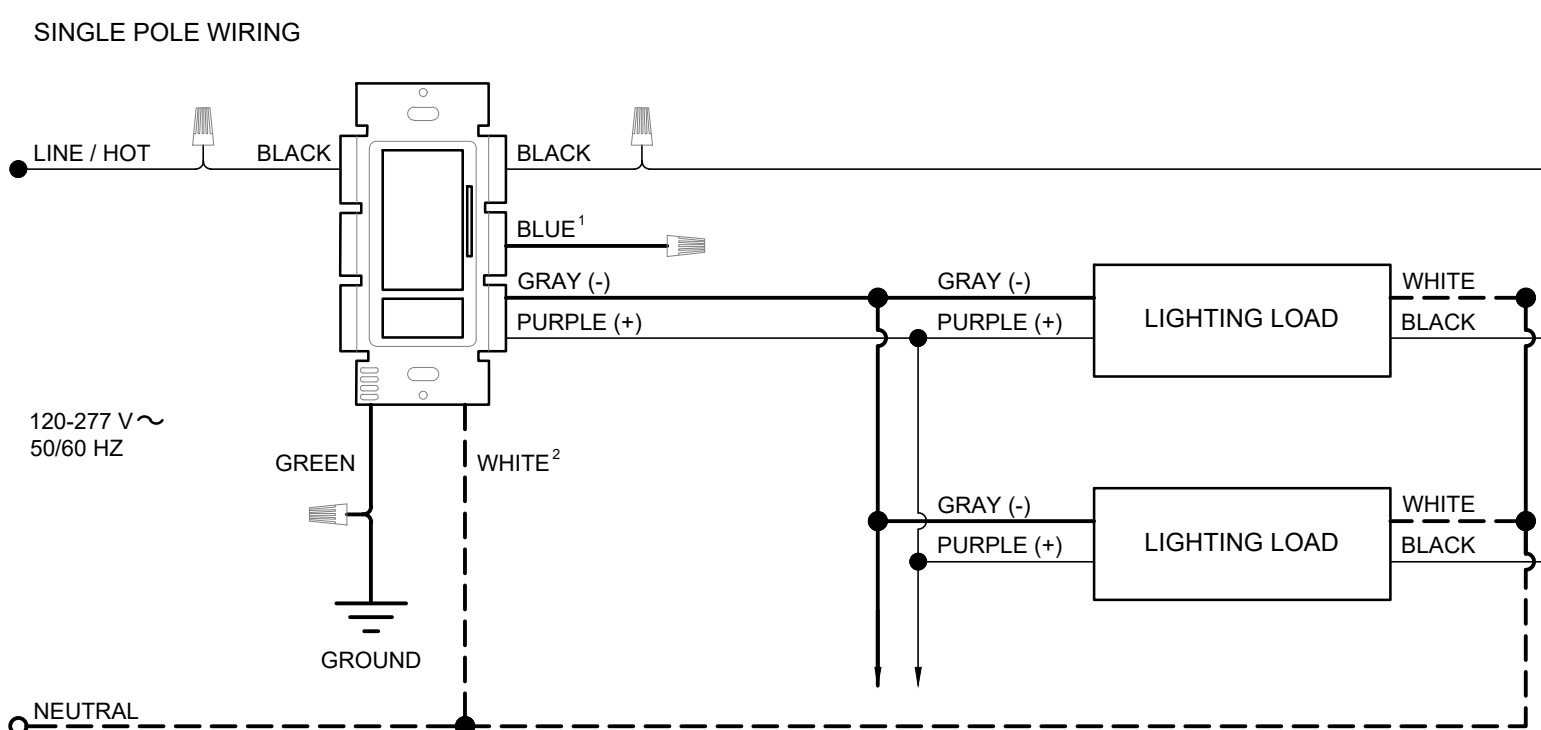
HEATING CONTROL

- THE INITIAL SET POINT FOR OCCUPIED HOURS WILL BE 68 DEGREES.
- THE INITIAL SET POINT FOR UNOCCUPIED HOURS WILL BE 55 DEGREES.

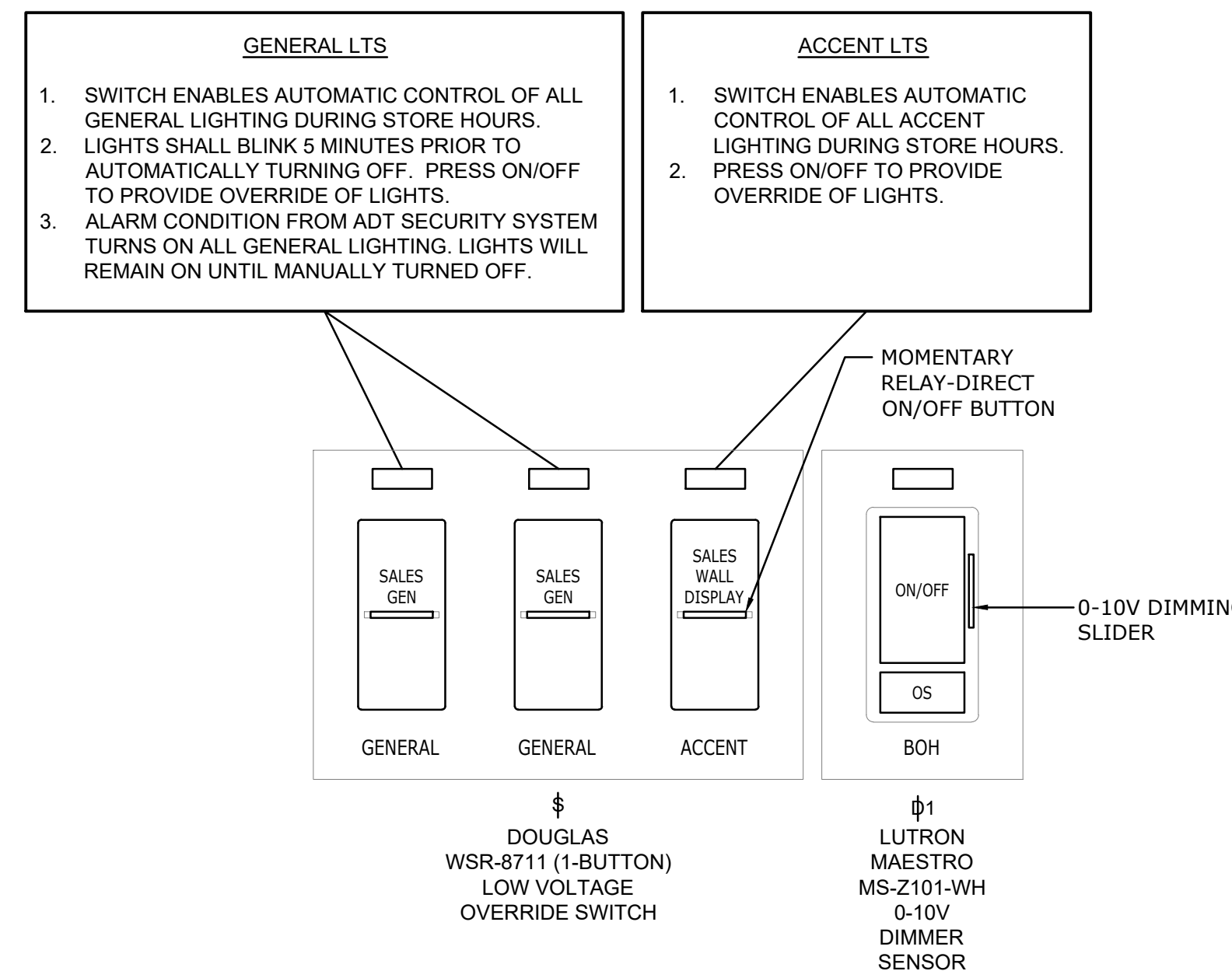
A1 LIGHTING CONTROL/HVAC SEQUENCE OF OPERATION
NTS

	DESCRIPTION	CONTROL FUNCTION
INTERIOR	SALES GENERAL LIGHTING	① *
	SALES ACCENT LIGHTING	② *
EXTERIOR	SIGNAGE	②
*	SWITCH SHALL BE PROGRAMMED FOR A MAXIMUM OPERATION OF 2 HOURS WHEN ACTIVATED BEYOND STORE CLOSE.	

A1 LIGHTING CONTROL FUNCTION MATRIX
NTS

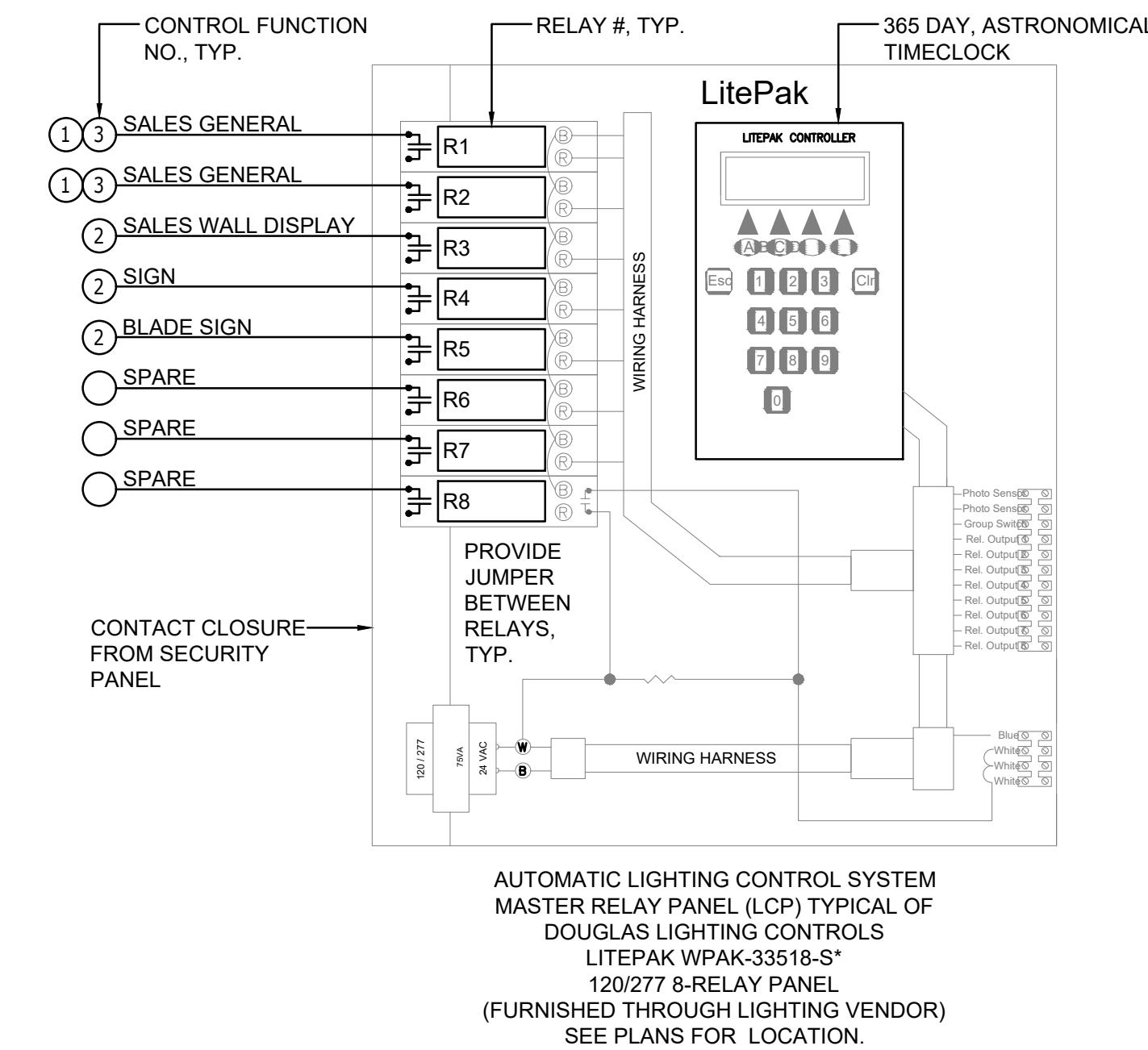


B2 LUTRON MS-Z101 WIRING DIAGRAM
NTS



DOUGLAS WSR-8711 SWITCH:
PROVIDES MOMENTARY RELAY-DIRECT FUNCTIONALITY FOR CONTROL OVER RELAYS IN THE LCP THROUGH A LOW VOLTAGE DIODE PULSE THAT IS SENT ALONG THE SWITCH SIGNAL LEG WHEN THE MOMENTARY SWITCH IS PUSHED. THIS PULSE WILL OPEN OR CLOSE THE RELAY, WHICH IN-TURN CONTROLS THE LIGHT(S). DOUGLAS 8700 SERIES FACEPLATES AVAILABLE IN 1 GANG, 3 GANG & 5 GANG.

A2 SWITCHBANK DETAIL
NTS



B3 LIGHTING CONTROL SCHEMATIC
NTS

Firm's License #

State License #

DESCRIPTION	DATE
1 BUILDING DEPARTMENT	7/26/17

US HWY 50 & CLUB MANOR DR
908 W US HWY 50
PUEBLO, CO 81008
LIGHTING CONTROLS

MDC
CORPORATE - RELO
686
DESIGN DEVELOPMENT

DATE: 12/21/2017
SCALE: NO SCALE
DRAWN BY: XXX
PROJECT No.: TMO384
SHEET: