

DATE: 9 June 2023
TIME: 4:08 pm

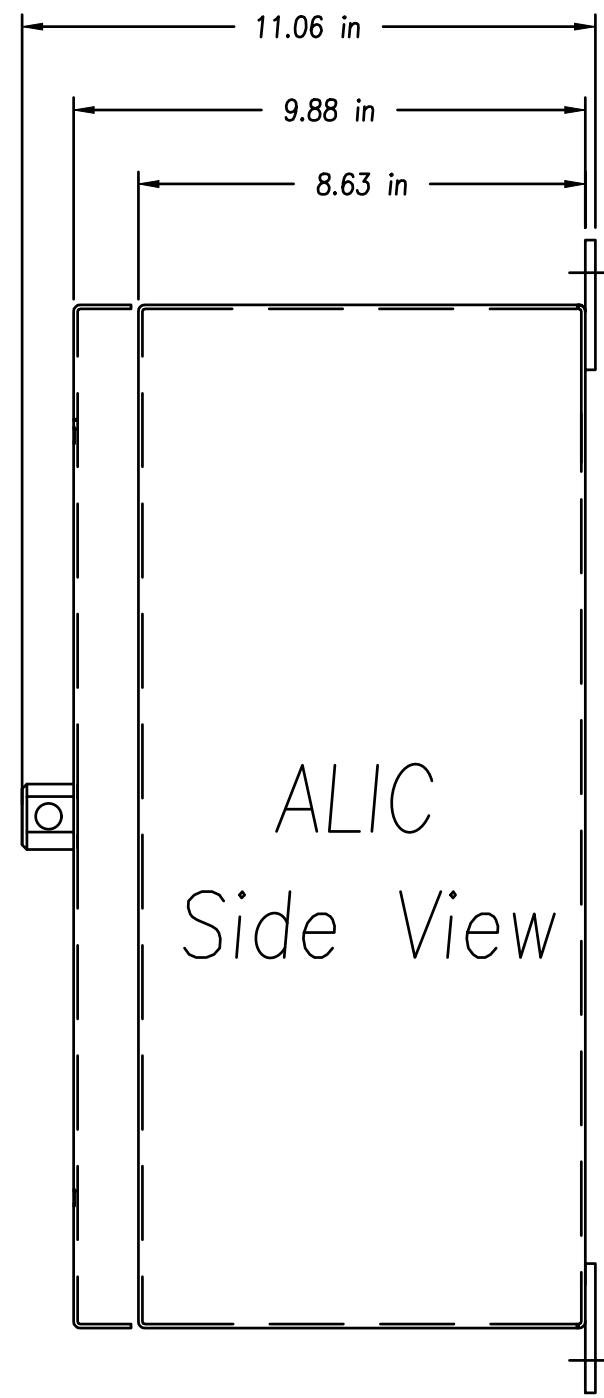
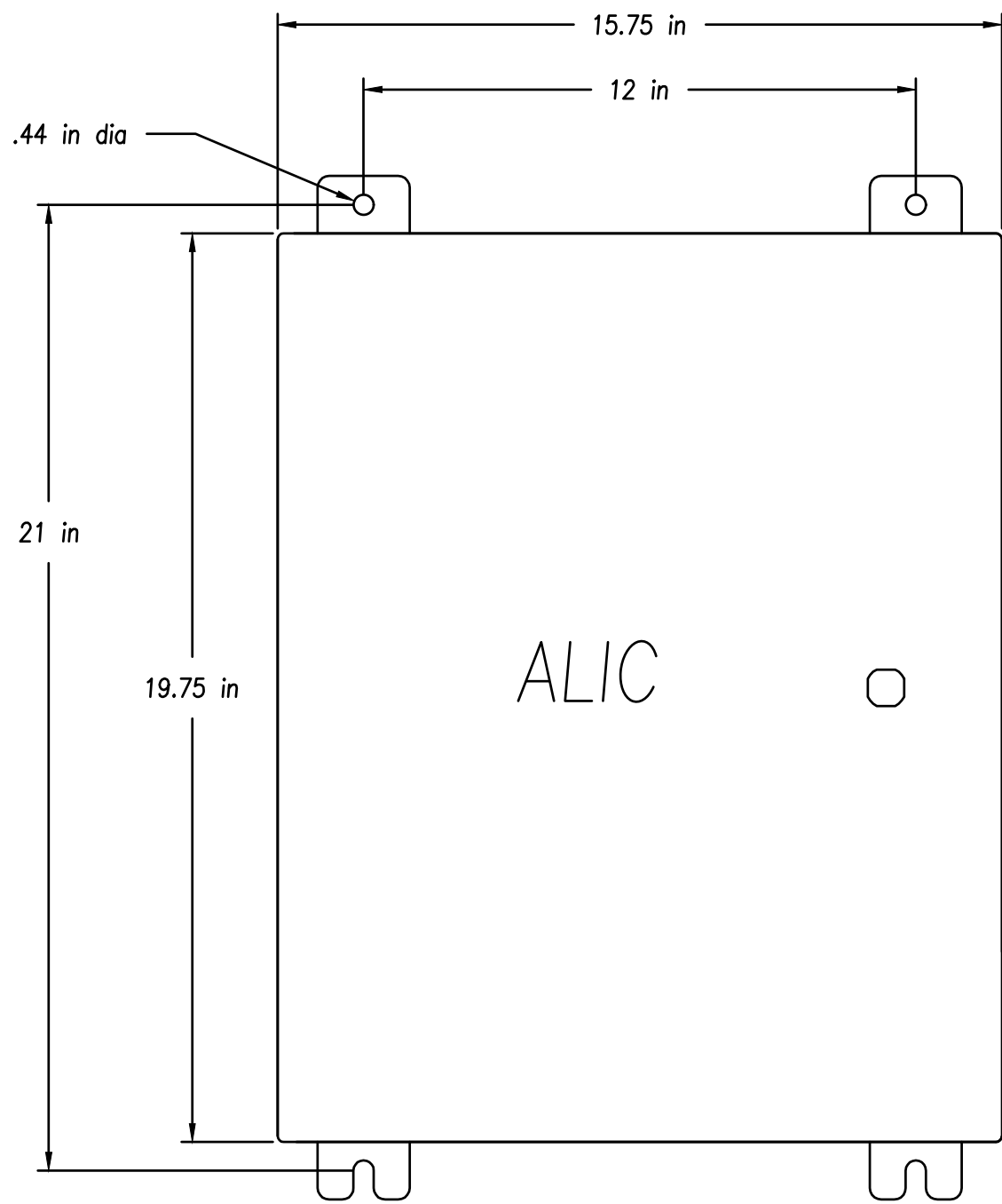
PATHNAME: G:\22\537\EL\Sheets

DRAWING FILENAME: 22-537E302

DRAFTER: CM01

XREF: none
Drawing: 22-537E302.dwg
Sheet: 1 of 2
Date: 6/9/2023
Author: CM01
Plotter: LUCY LLOYD & ASSOCIATES, INC.
Plot: 22-537E302-1.dwg

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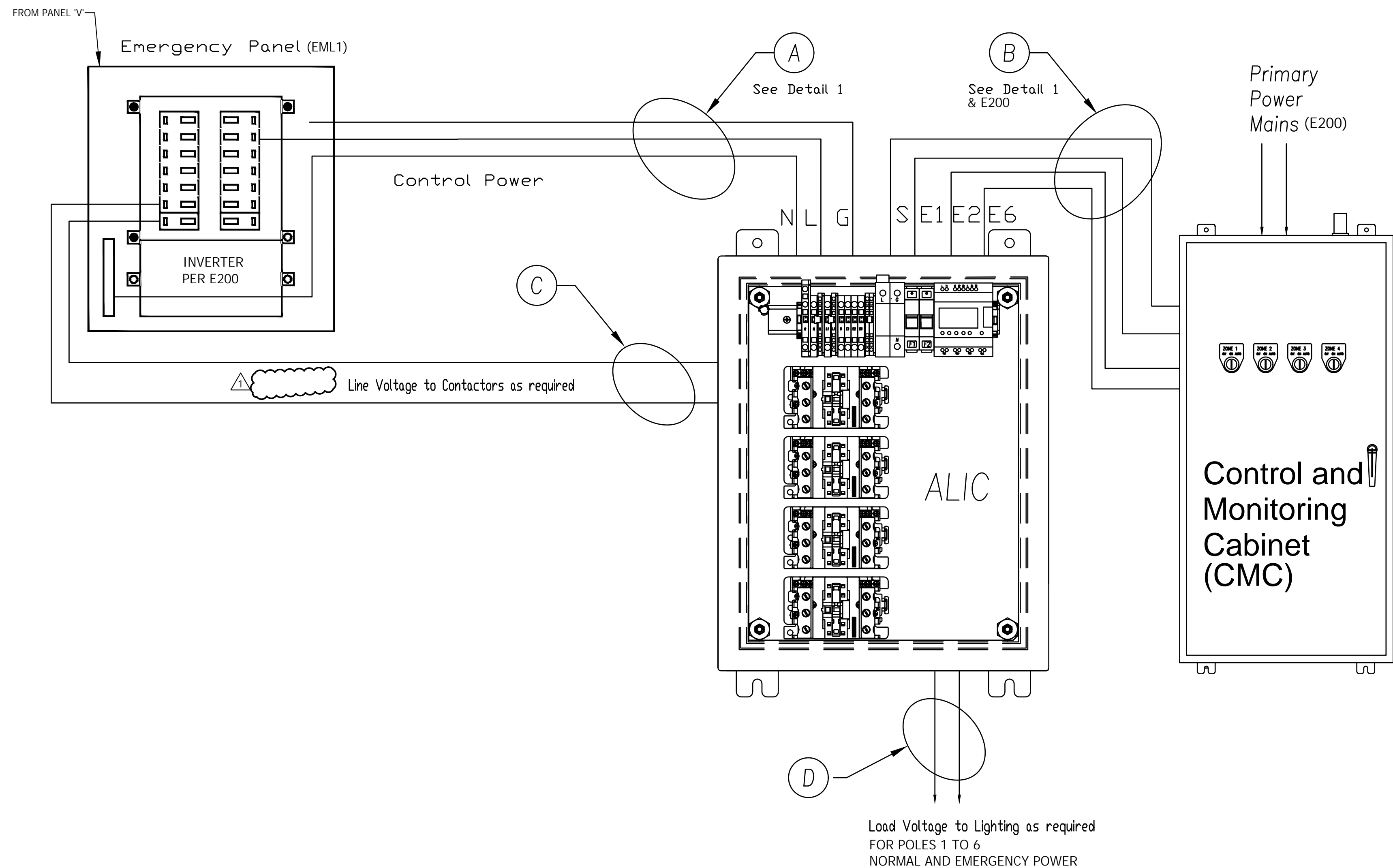


MUSCO:
Auxiliary Lighting Interface Cabinet (ALIC)
Standard Operation and Functionality

Functionality
The ALIC (UL924) provides monitoring of Controls and Monitoring Cabinet zones and primary 120V power. For the ALIC to work correctly, it and the emergency lighting fixtures will need to be powered from an Emergency Distribution Panel. This Emergency Distribution Panel is assumed to be powered from a UPS or automatic transfer switch, whose operation is to control the power source, either the generator or the mains.

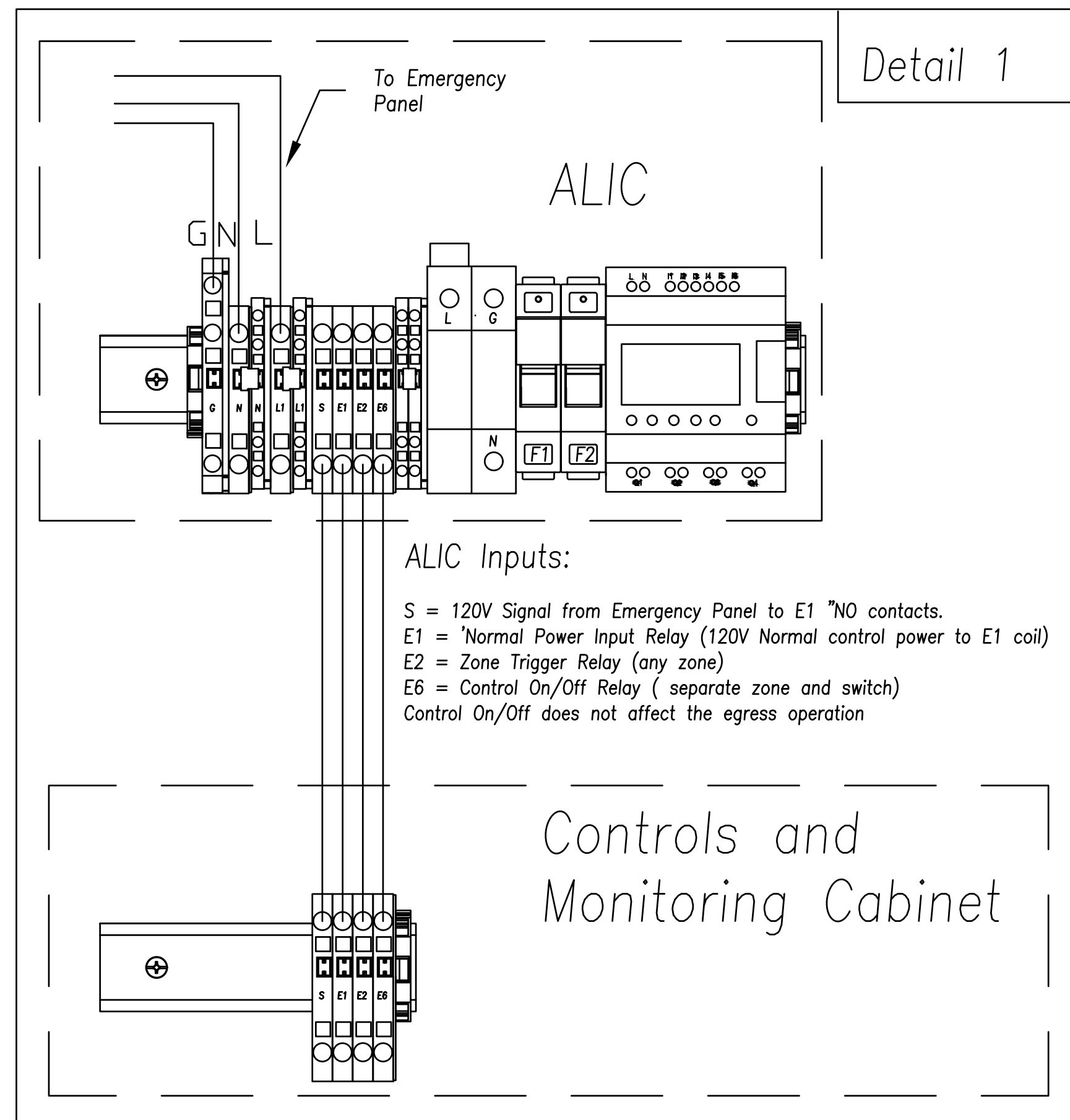
IMPORTANT: The 120 volt power (wire E1) from the Controls Monitoring Cabinet is being monitored as the mains or normal power. For best operation, the Controls and Monitoring Cabinet should be powered from the field lighting distribution panel or what is to be considered the main distribution panel.

- Standard sequence of egress operation
- 1) The ALIC sends 120V over the S wire to the normally open (N.O.) contacts of the E1, E2 and E6 (if present) relays in the CMC.
 - a) E1 is connected to the control circuit of the CMC to monitor Normal Power.
 - b) E2 is connected to the monitored zone(s) to monitor when the zone(s) is on
 - c) E6 is connected to the override zone if present. This zone can manually turn on or schedule the egress fixture. The manually override does not affect the egress operation
 - 2) Normal power (the mains) has an interruption, either sustained or momentary.
 - 3) E1 opens it's contacts cutting the monitored normal power input from the ALIC.
 - 4) The ALIC checks the monitored zone input from E2.
 - a) If the input was present the ALIC will output for egress. The ALIC will continue to output as long as the backup system provides power. Once normal power is restored and the ALIC receives an input from E1 the ALIC will delay off the egress output for 20min.
 - b) If the input was not present the ALIC will not output for egress



Contractor Notes:

Contractor is responsible for providing (A,B,C,D) cables and installation of cables from emergency panel to ALIC and from ALIC to Controls and Monitoring Cabinet.



ALIC Inputs:

- S = 120V Signal from Emergency Panel to E1 "NO" contacts.
E1 = "Normal Power Input Relay (120V Normal control power to E1 coil)
E2 = Zone Trigger Relay (any zone)
E6 = Control On/Off Relay (separate zone and switch)
Control On/Off does not affect the egress operation



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DSA
SUBMITTAL



REV.
ADDENDUM 1 6/9/23

MOORPARK COLLEGE
BEACH VOLLEYBALL
COURTS

MOORPARK, CA
DESIGNED: KL
DATE: APRIL 4, 2023
DRAWN: LK / DS
PROJ. 22-537
SCALE: AS NOTED

SHEET TITLE
MUSCO CONTROL
SYSTEM SUMMARY

DWG. NO.

E302