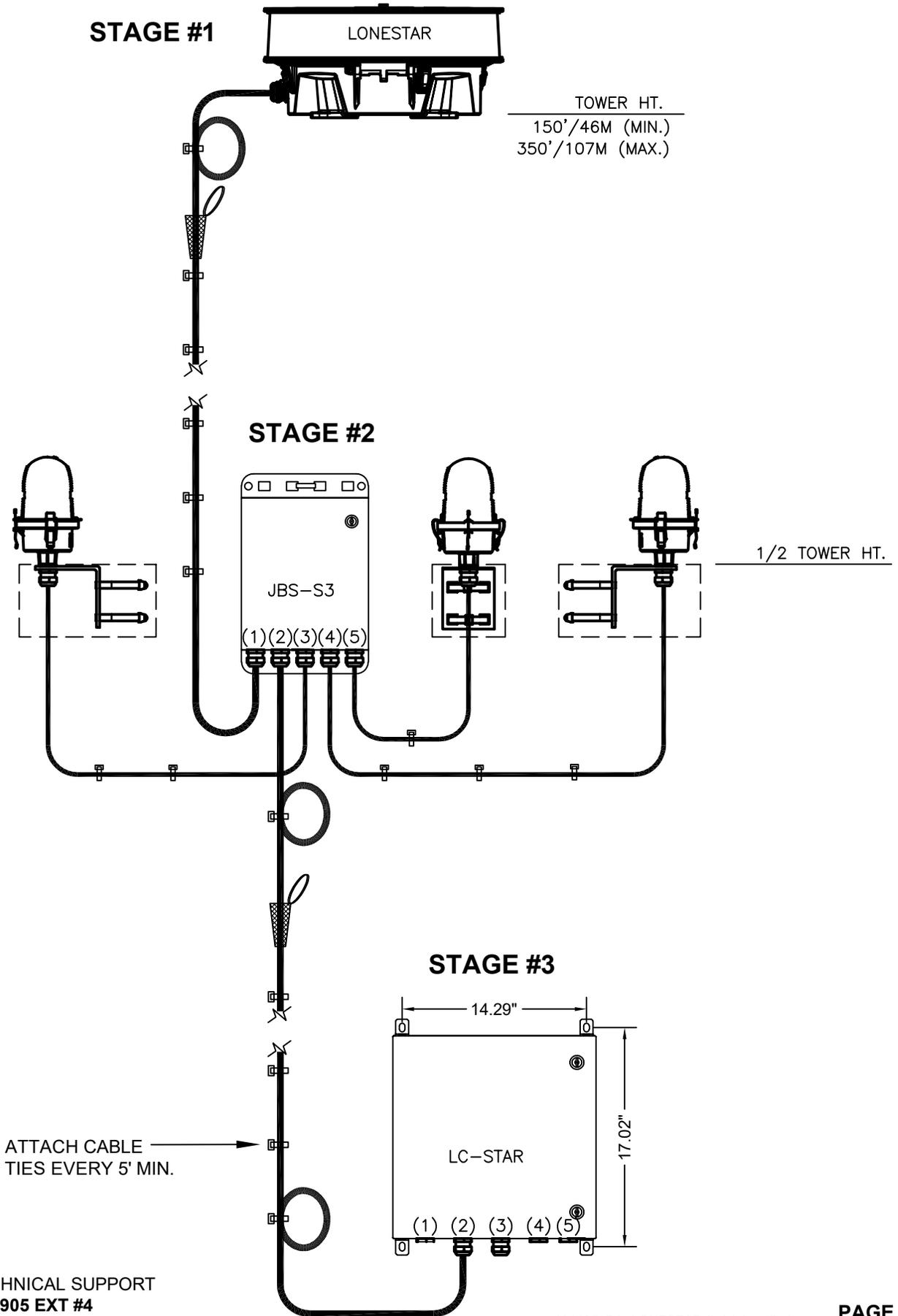


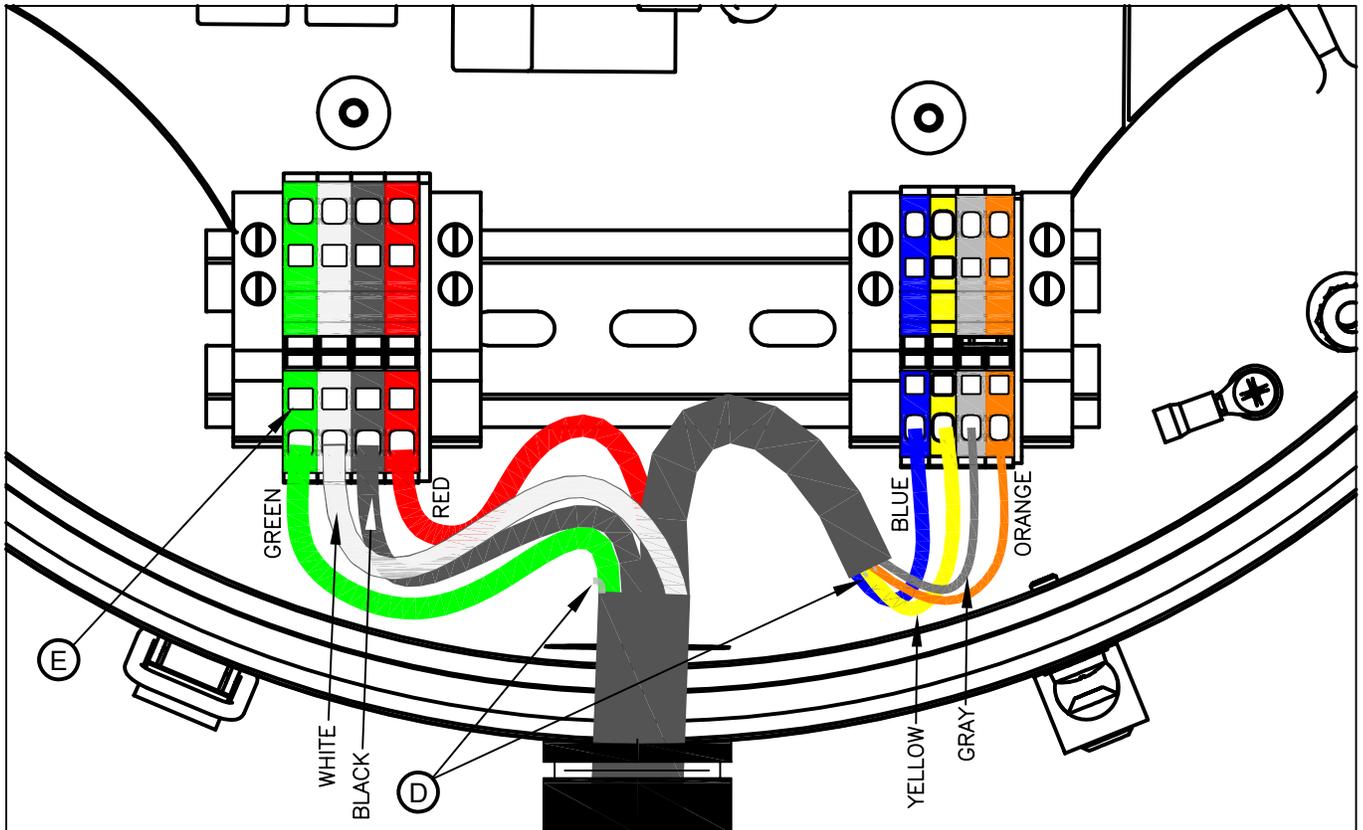
QUICK INSTALL GUIDE FOR STAR LIGHTING SYSTEM



BEACON WIRING AT TOP OF STRUCTURE

STAGE #1

- A. MOUNT LONESTAR BEACON WITH 13-1/4" BOLT CIRCLE TO STRUCTURE WITH SUPPLIED BOLTS.
- B. HOIST LCABLE-1 WITH CABLE GRIP TO TOP OF STRUCTURE ALLOWING ENOUGH CABLE FOR SERVICE LOOP AND MANICURING TO TERMINATE WITHIN BEACON.
- C. RELEASE FOUR LATCHES AND OPEN BEACON.



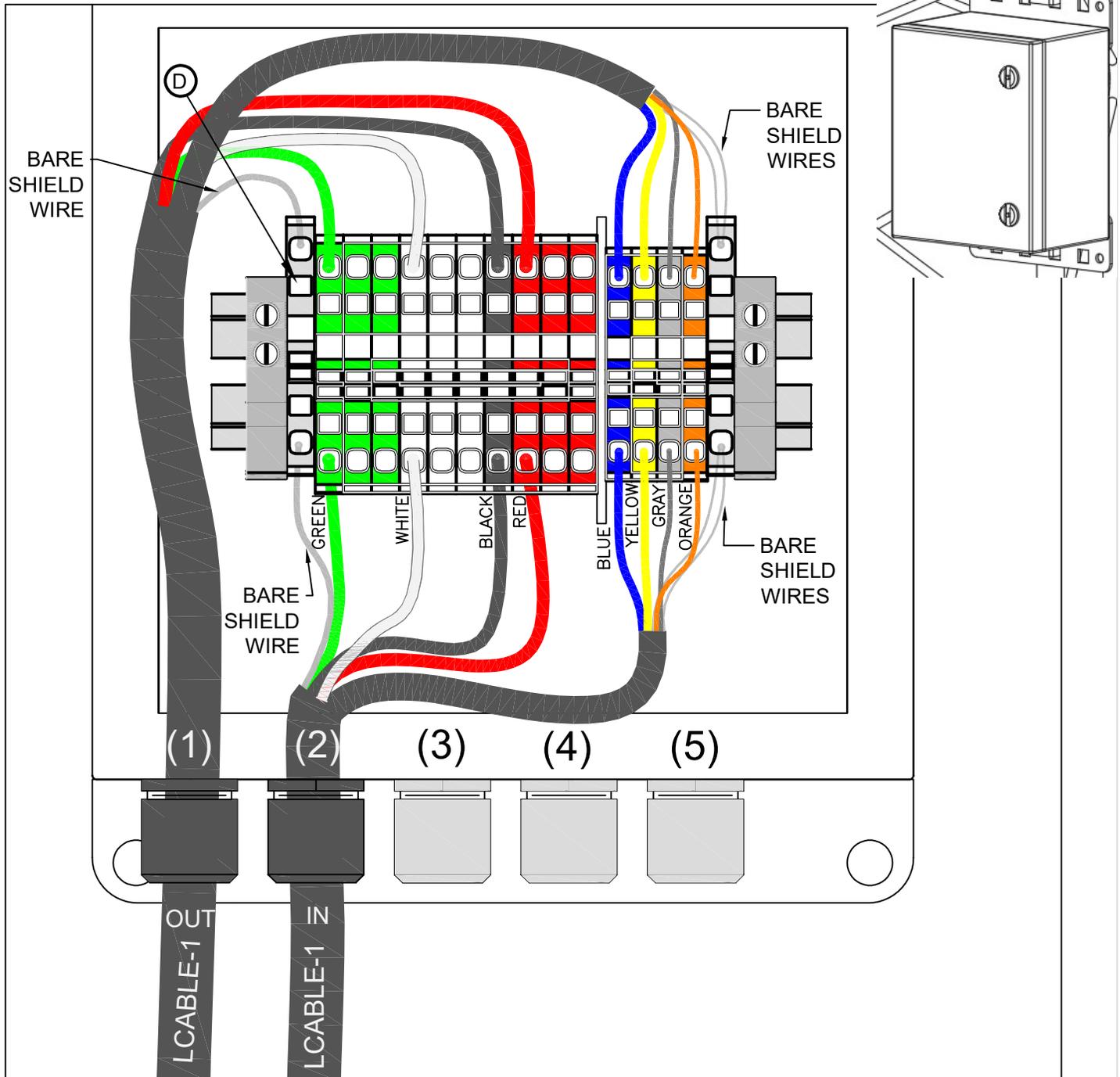
- D. INSERT CABLE THROUGH CABLE GLAND AND CUT BARE SHIELD WIRES FLUSH WITH CABLE PVC JACKET.
- E. USE FLAT BLADE SCREWDRIVER TO OPEN WIRE CLAMP AND INSERT COLOR MATCHING WIRE IN TERMINAL.

* REFER TO MANUAL FOR COMPLETE INSTRUCTIONS

JUNCTION BOX WIRING AT HALF STRUCTURE HEIGHT

STAGE #2

- A. MOUNT JUNCTION BOX TO STRUCTURE USING STRAPS (P/N HC6-10).
- B. ADD CABLE GRIP TO LCABLE-1 AT HALF STRUCTURE HEIGHT ALLOWING ENOUGH CABLE FOR SERVICE LOOP AND MANICURING TO TERMINATE WITHIN JUNCTION BOX.
- C. RELEASE TWO DOOR LATCHES WITH KEY OR FLAT BLADE SCREWDRIVER.
- D. INSERT CABLE THROUGH CABLE GLAND AND USE FLAT BLADE SCREWDRIVER TO OPEN WIRE CLAMP AND INSERT COLOR MATCHING WIRE IN TERMINAL.

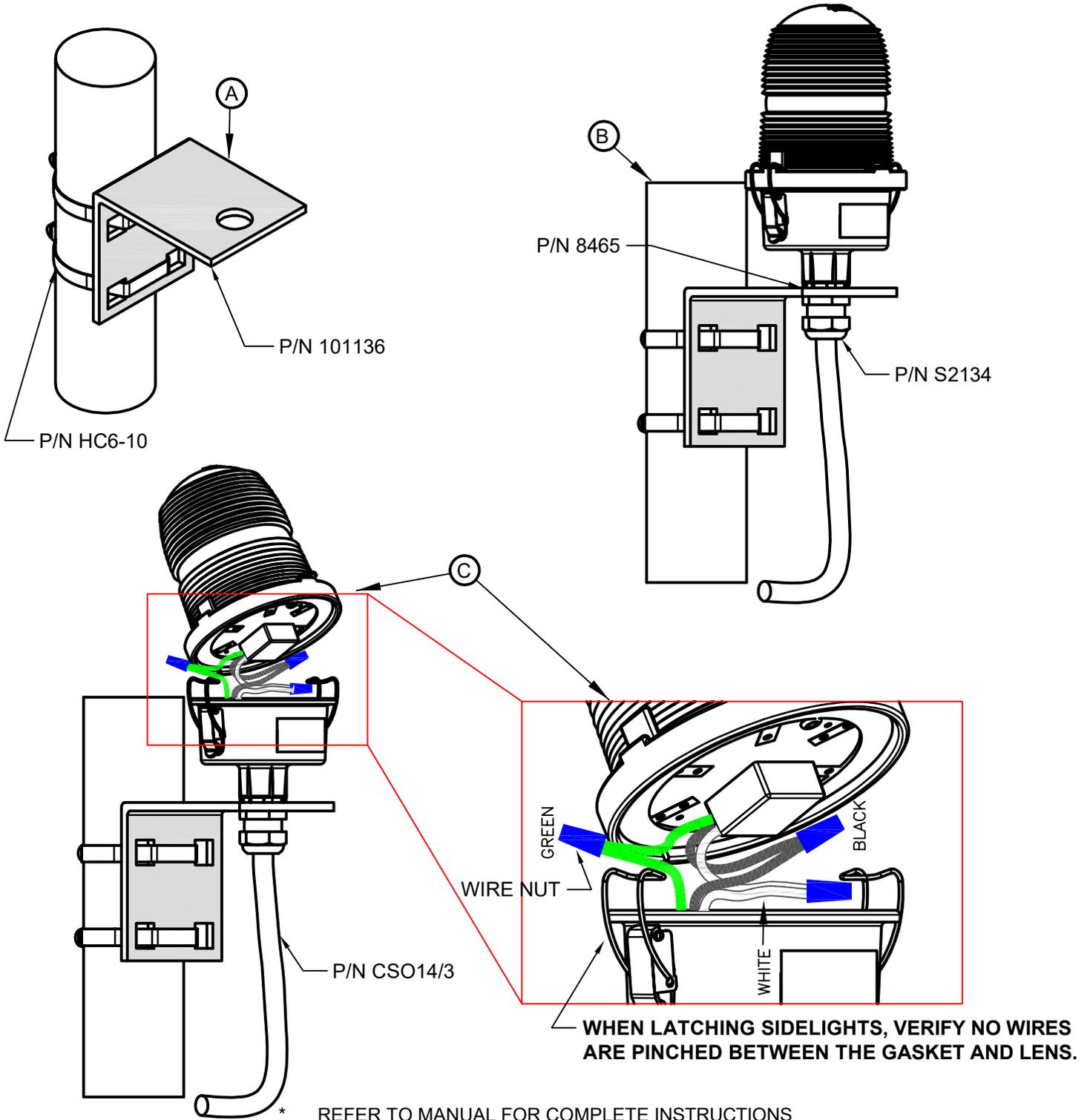


* REFER TO MANUAL FOR COMPLETE INSTRUCTIONS

OL1 / L810 SIDELIGHT MOUNT AND WIRING

STAGE #2A

- A. SECURE THE L BRACKET (P/N 101136) USING STRAPS (P/N HC6-10)
- B. USE CABLE GLAND (P/N S2134) AND $\frac{3}{4}$ " LOCKNUT (P/N 8465) PROVIDED TO SECURE LIGHT TO L BRACKET.
- C. MANICURE (P/N CSO14/3) CABLE, INSERT THROUGH CABLE GLAND AND TERMINATE WIRES WITH WIRE NUT.

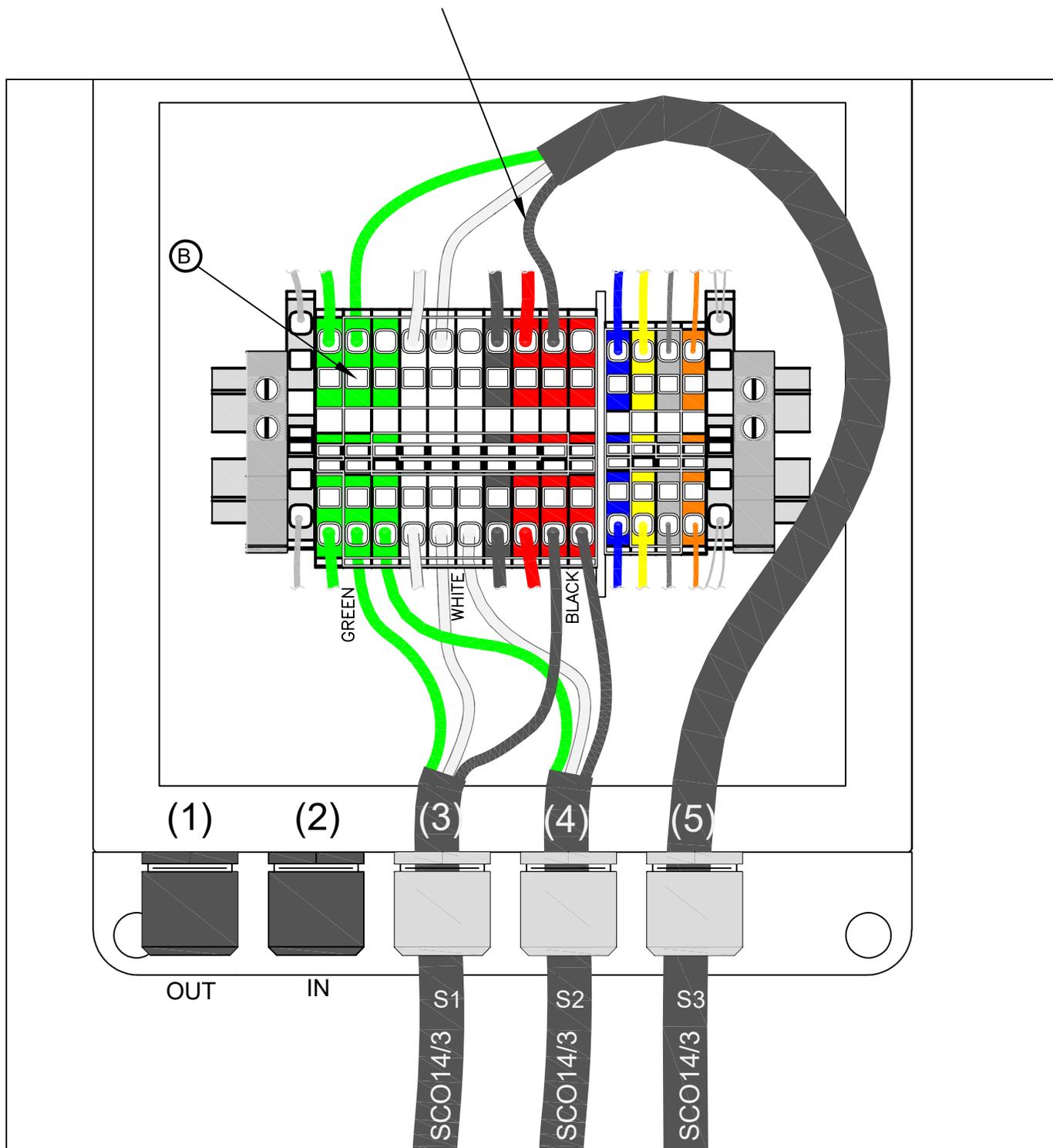


JUNCTION BOX OL1 / L810 SIDELIGHT WIRING

STAGE #2B

- A. MANICURE CSO14/3 CABLE AND INSERT THROUGH CABLE GLAND
- B. USE FLAT BLADE SCREWDRIVER TO OPEN WIRE CLAMP AND INSERT COLOR MATCHING WIRE IN TERMINAL

"NOTE: BLACK WIRE FROM SIDELIGHTS CONNECTS TO RED TERMINALS."

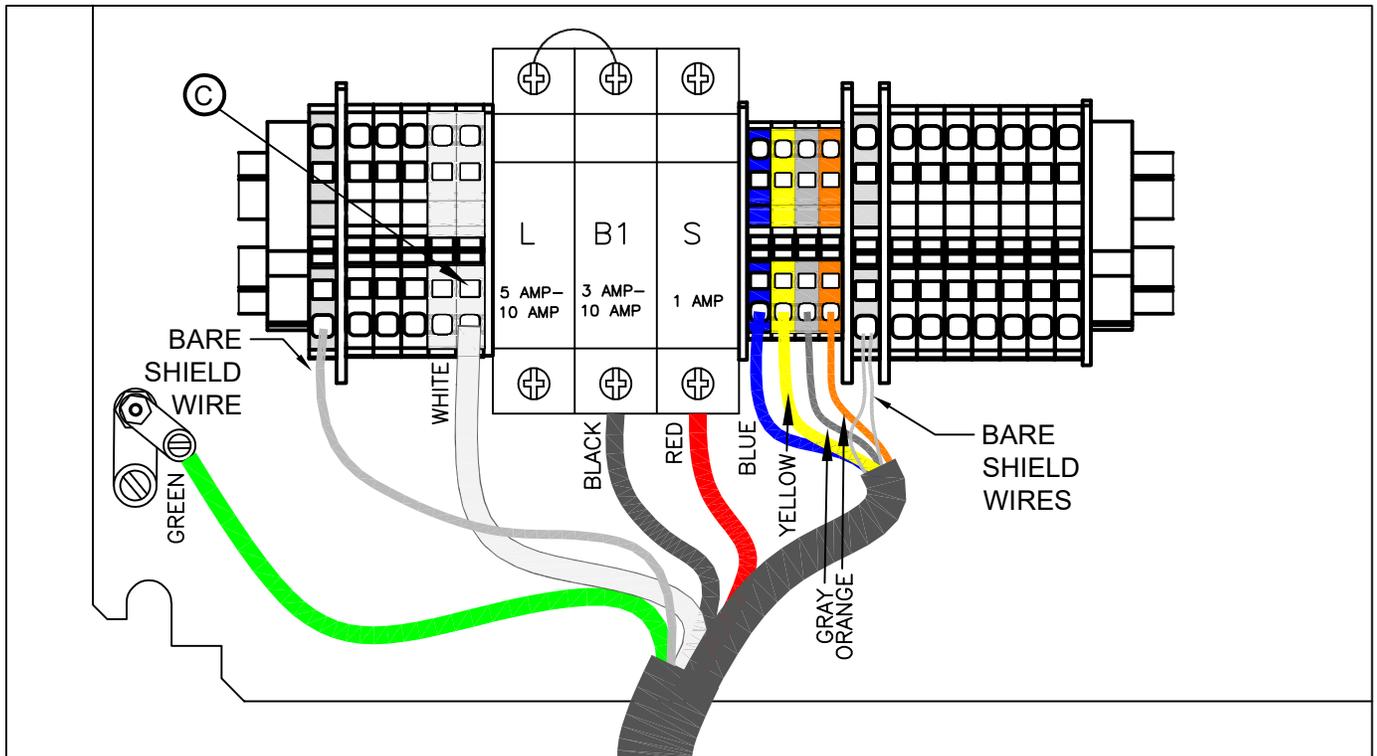


* REFER TO MANUAL FOR COMPLETE INSTRUCTIONS

LC-STAR CONTROLLER LIGHTS WIRING

STAGE #3

- A. MOUNT LC-STAR CONTROLLER USING 0.44" HOLES, 14.29" WIDTH X 17.02" HEIGHT.
- B. RUN LCABLE-1 TO LC-STAR CONTROLLER ALLOWING ENOUGH CABLE FOR SERVICE LOOP AND MANICURING TO TERMINATE WITHIN CONTROLLER.
- C. INSERT CABLE THROUGH CABLE GLAND AND USE FLAT BLADE SCREWDRIVER TO OPEN WIRE CLAMP AND INSERT COLOR MATCHING WIRE IN TERMINAL.



VERY IMPORTANT PROCEDURE TO CONFIRM WIRE CONNECTIONS WITH ELECTRICAL MULTIMETER!

IMPEDANCE MEASUREMENTS (WITH INPUT POWER OFF):

1. ALL LIGHTING SYSTEM WIRES CONNECTED
 - 1.1. BLUE TO YELLOW = **72.5 OHMS**
 - 1.2. BLUE TO GRAY/ORANGE = **560K OHMS**
 - 1.3. YELLOW TO GRAY/ORANGE = **560K OHMS**
2. WIRES DISCONNECTED ONLY AT LC-STAR CONTROLLER
 - 2.1. BLUE TO YELLOW = **168 OHMS**
 - 2.2. BLUE TO GRAY/ORANGE = **506K OHMS**
 - 2.3. YELLOW TO GRAY/ORANGE = **506K OHMS**

*MEASUREMENTS MAY VARY WITHIN A 1-5 PERCENT.

IF YOU'RE UNABLE TO GET IMPEDANCE MEASUREMENTS TO MEET ABOVE CONTACT CHECK THAT ALL WIRE TERMINATIONS ARE SECURE.

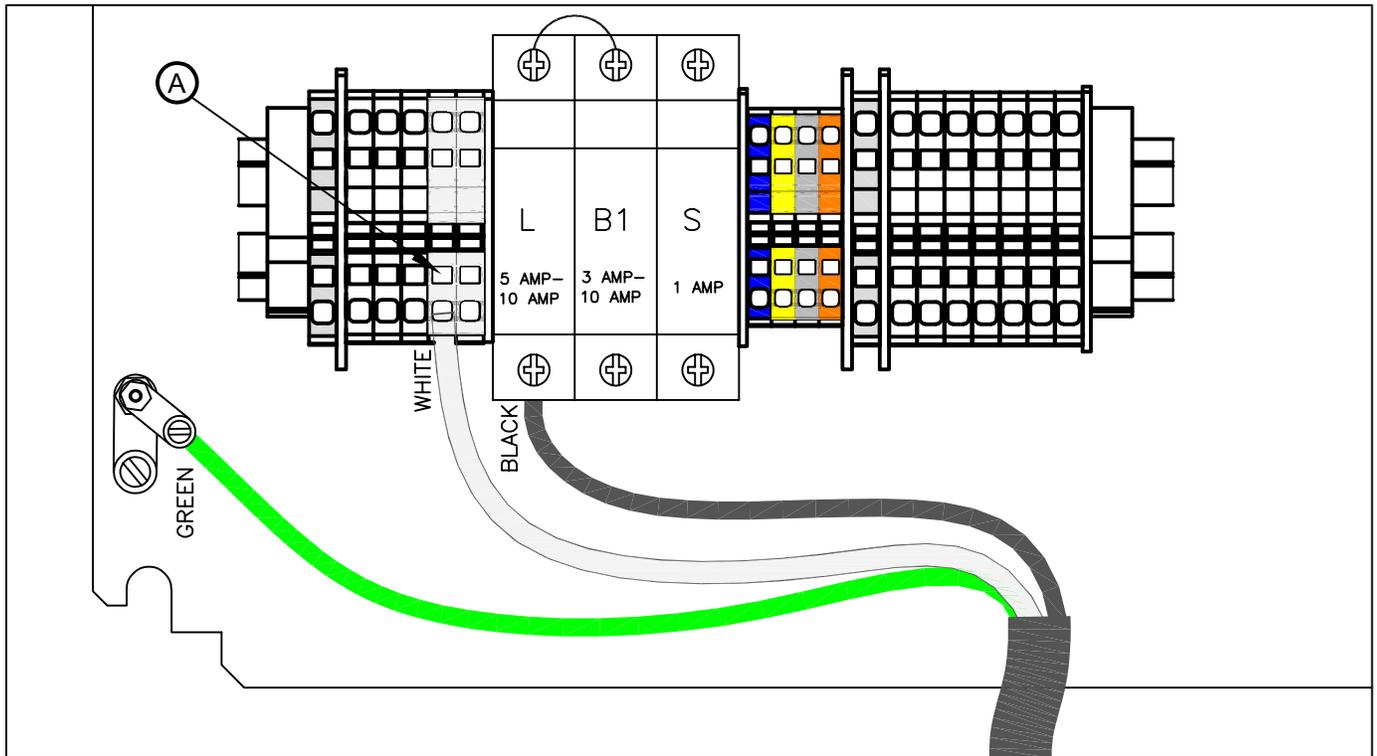
TWR'S 24/7 TECHNICAL SERVICE IS ALSO AVAILABLE TO TROUBLESHOOT. **713-973-6905 EXT #4**

* REFER TO MANUAL FOR COMPLETE INSTRUCTIONS

LC-STAR CONTROLLER POWER WIRING

STAGE #3A

- A. INPUT POWER, USE SCREWDRIVER TO OPEN WIRE CLAMP AND INSERT COLOR MATCHING WIRE IN TERMINAL.
- B. PERFORM IMPEDANCE CHECK CONFIRMING THERE ARE NO ELECTRICAL OR DATA SHORTS WITHIN WIRING (REFER TO MANUAL FOR DETAILS).



- C. POWER THE LIGHTING SYSTEM.
THE LC-STAR CONTROLLER WILL TAKE A FEW MINUTES TO INITIALIZE, IF THE MAIN MENU DISPLAYS THE SYSTEM IS READY FOR OPERATION. (IF RED FAILURE SCREEN APPEARS CONTACT TWR TECHNICAL SERVICE.)

"REFER TO MANUAL STATUS AND MENU OPTIONS."

* REFER TO MANUAL FOR COMPLETE INSTRUCTIONS