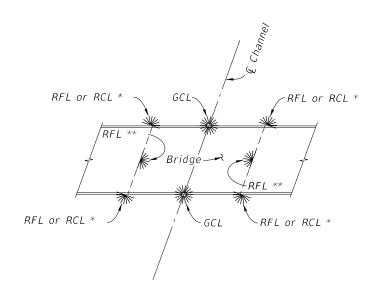


NAVIGATION LIGHT SYSTEM SCHEMATIC FOR SINGLE BRIDGE WITH FENDERS



NAVIGATION LIGHT SYSTEM SCHEMATIC FOR SINGLE BRIDGE WITHOUT FENDERS

NAVIGATION LIGHT SYSTEM SCHEMATIC FOR DUAL BRIDGES WITHOUT FENDERS

Bridge-

FOR DUAL BRIDGES WITH FENDERS

-RFL or RCL \*

- RFL \*\*

-RFL or RCL \*

Fender (Typ.)

RFL or RCL \*

RFL or RCL \*

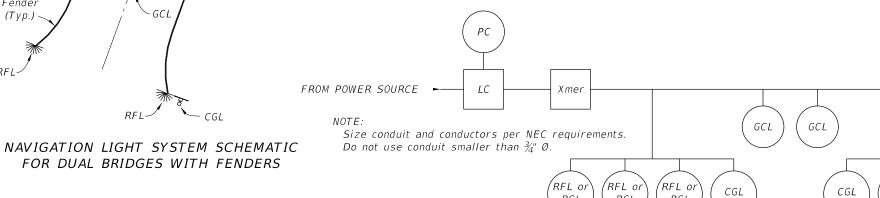
<sup>L</sup>RFL \*\*

Bridge

- \* Use RFL when Pier is at Channel Edge and see CFR, Title 33, part 118 for Mounting Height restrictions. Use RCL otherwise.
- \*\* Mounted only on the Pier that defines CM, otherwise does not apply.
- \*\*\* RFL to be located at mid length of straight portion of fender.

## NAVIGATION LIGHT NOTES:

1. Provide Navigation Light System in compliance with Specifications Section 510.



RCL

RCL

## TYPICAL ELECTRICAL SCHEMATIC DIAGRAM

RCL

POWER CONDUCTORS			
DISTANCE (feet)	VOLTS	CONDUCTOR	TRANSFORMER
0 - 75	120	#12 AWG	N/A
75 - 500	120 or 240	#10 AWG	N/A
500-1000	240	#10 AWG	N/A
1000-2000	480	#10 AWG	2 KVA
2000-5000	480	#8 AWG	2 KVA
5000-10000	480	#6 AWG	2 KVA
over 10000	480	#4 AWG	2 KVA

## LEGEND SYMBOL DESCRIPTION

Lighting Contactor

Photocell Control

Xmer Transformer (If Required)

 $\lceil RFL \rceil$ Red Pier/Fender Light (180° visibility) or RCL Red Channel Margin Light (180° visibility)

Green Center Channel Light (360° visibility)

△ CGL Clearance Gauge Light

> Channel Margin or Pier inner surface whichever defines Channel Edge.

DESCRIPTION:

NAVIGATION LIGHT SYSTEM DETAILS (FIXED BRIDGES)

INDEX NO. 21220

SHEET NO. 1 of 2

RFL or

RCL

RFL or

RCL

RFL or

RCL

FY 2017-18 DESIGN STANDARDS

