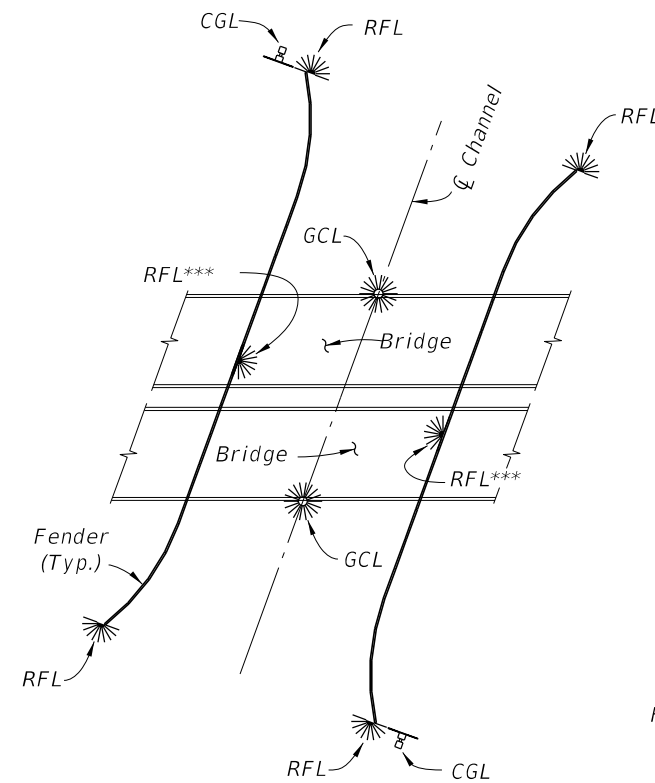
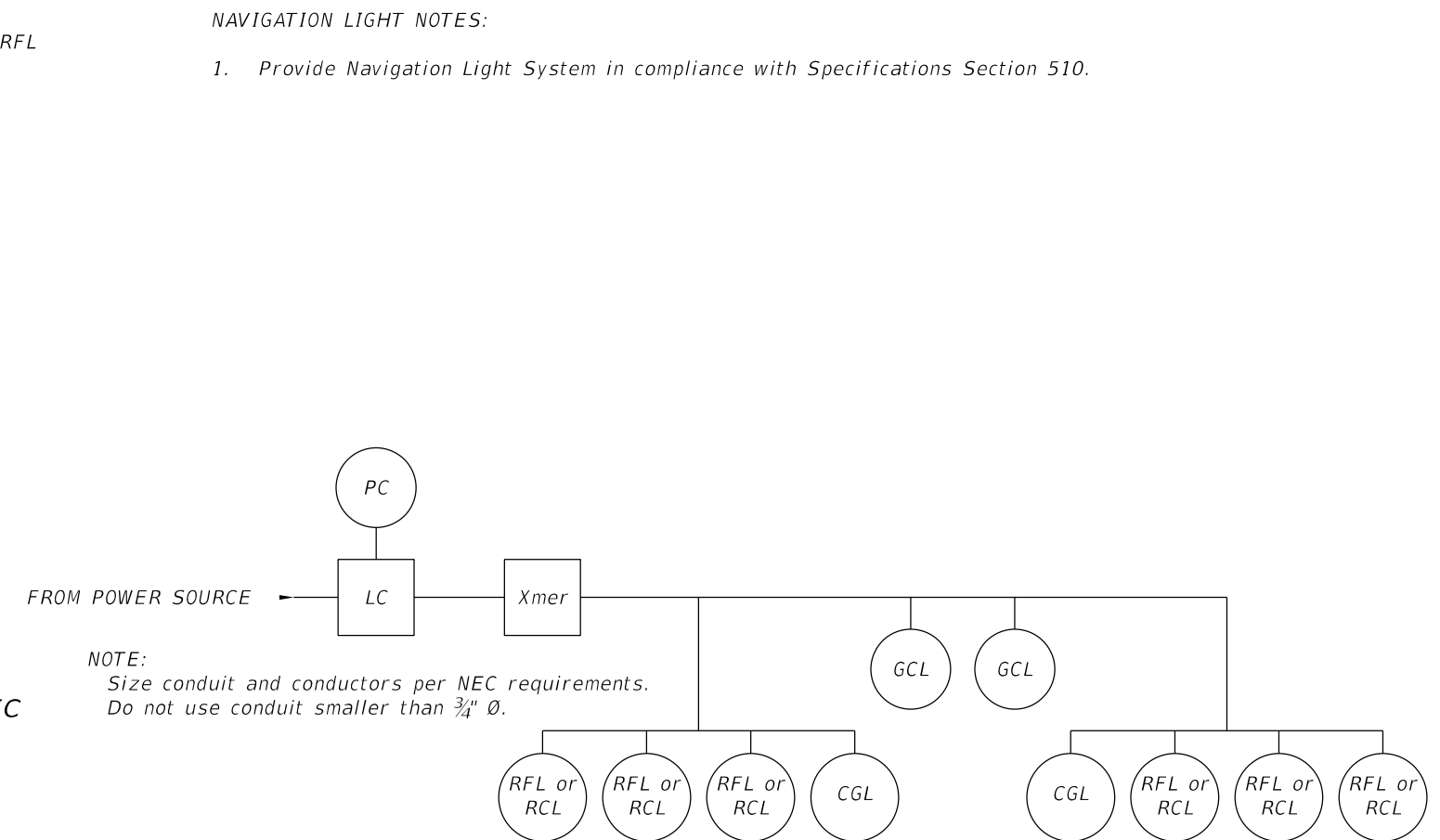


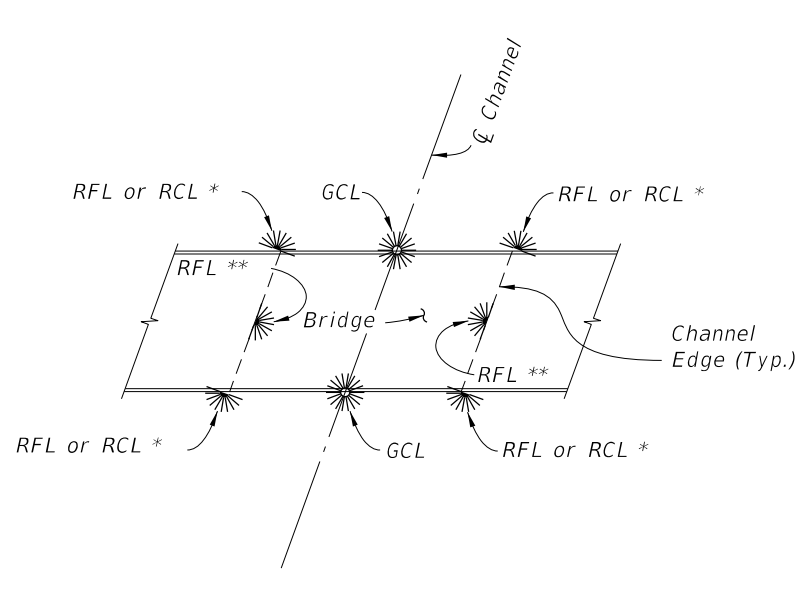
NAVIGATION LIGHT SYSTEM SCHEMATIC FOR SINGLE BRIDGE WITH FENDERS



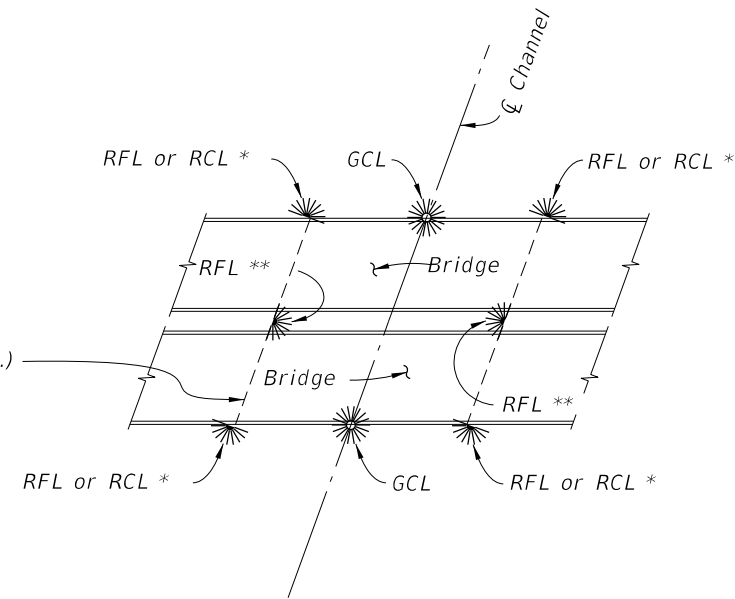
NAVIGATION LIGHT SYSTEM SCHEMATIC FOR DUAL BRIDGES WITH FENDERS



TYPICAL ELECTRICAL SCHEMATIC DIAGRAM



NAVIGATION LIGHT SYSTEM SCHEMATIC FOR SINGLE BRIDGE WITHOUT FENDERS



NAVIGATION LIGHT SYSTEM SCHEMATIC FOR DUAL BRIDGES WITHOUT FENDERS

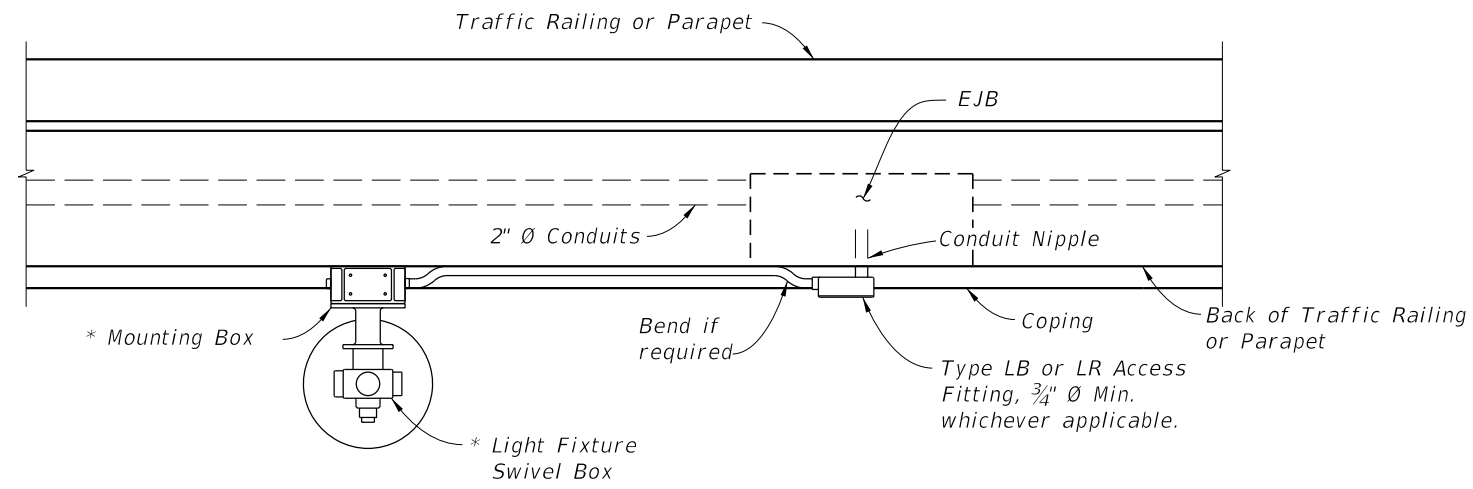
POWER CONDUCTORS			
DISTANCE (feet)	VOLTS	CONDUCTOR	TRANSFORMER
0 - 75	120	#12 AWG	N/A
75 - 500	120 or 240	#10 AWG	N/A
500-1000	240	#10 AWG	N/A
1000-2000	480	#10 AWG	2 KVA
2000-5000	480	#8 AWG	2 KVA
5000-10000	480	#6 AWG	2 KVA
over 10000	480	#4 AWG	2 KVA

LEGEND

- SYMBOL DESCRIPTION
- LC Lighting Contactor
- PC Photocell Control
- Xmer Transformer (If Required)
- RFL Red Pier/Fender Light (180° visibility)
or
RCL Red Channel Margin Light (180° visibility)
- GCL Green Center Channel Light (360° visibility)
- CGL Clearance Gauge Light
- CM Channel Margin or Pier inner surface whichever defines Channel Edge.

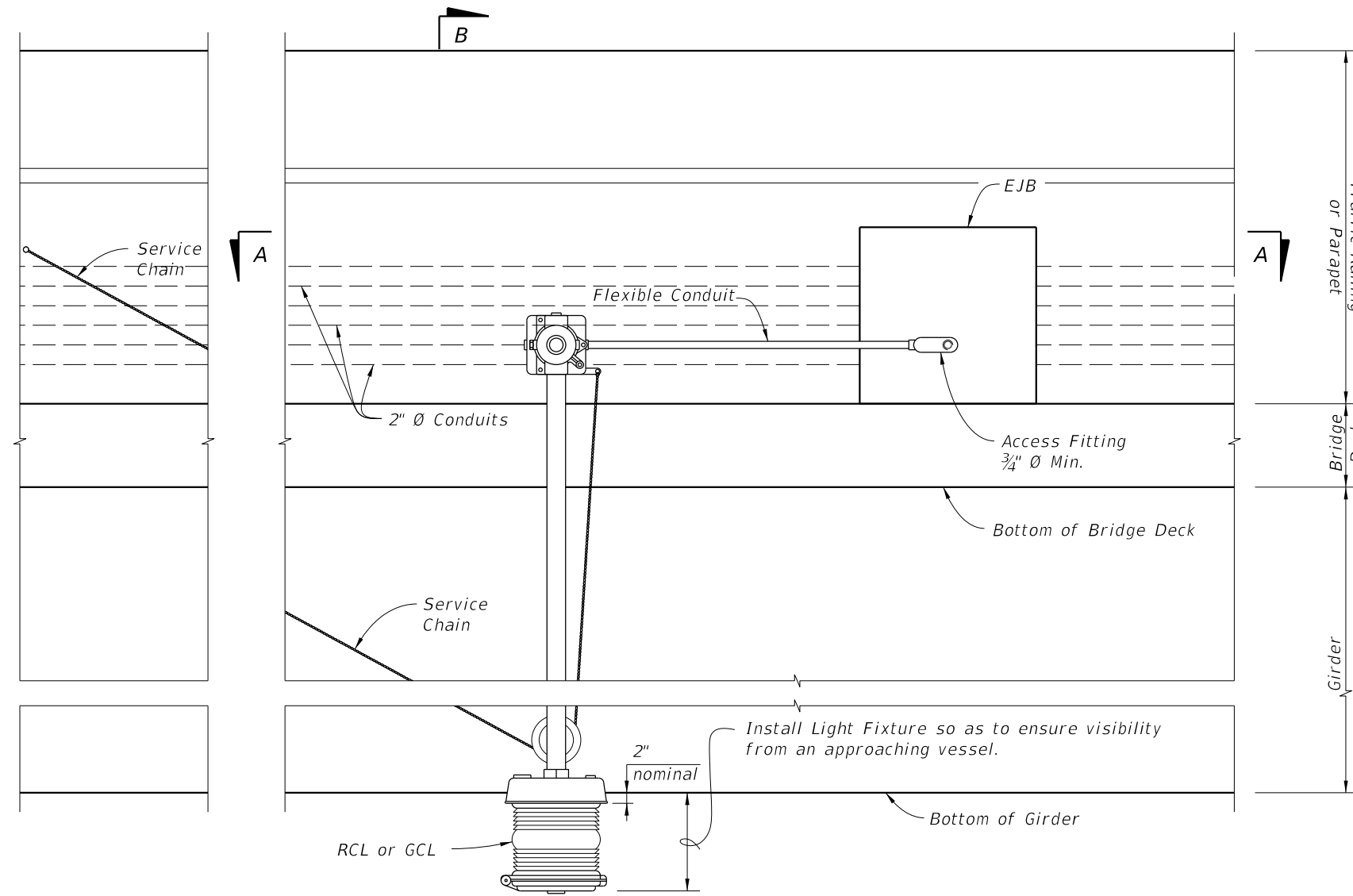
* Use RFL when Pier is at Channel Edge and see CFR, Title 33, part 118 for Mounting Height restrictions. Use RCL otherwise.
 ** Mounted only on the Pier that defines CM, otherwise does not apply.
 *** RFL to be located at mid length of straight portion of fender.

10/6/2025 3:07:58 PM

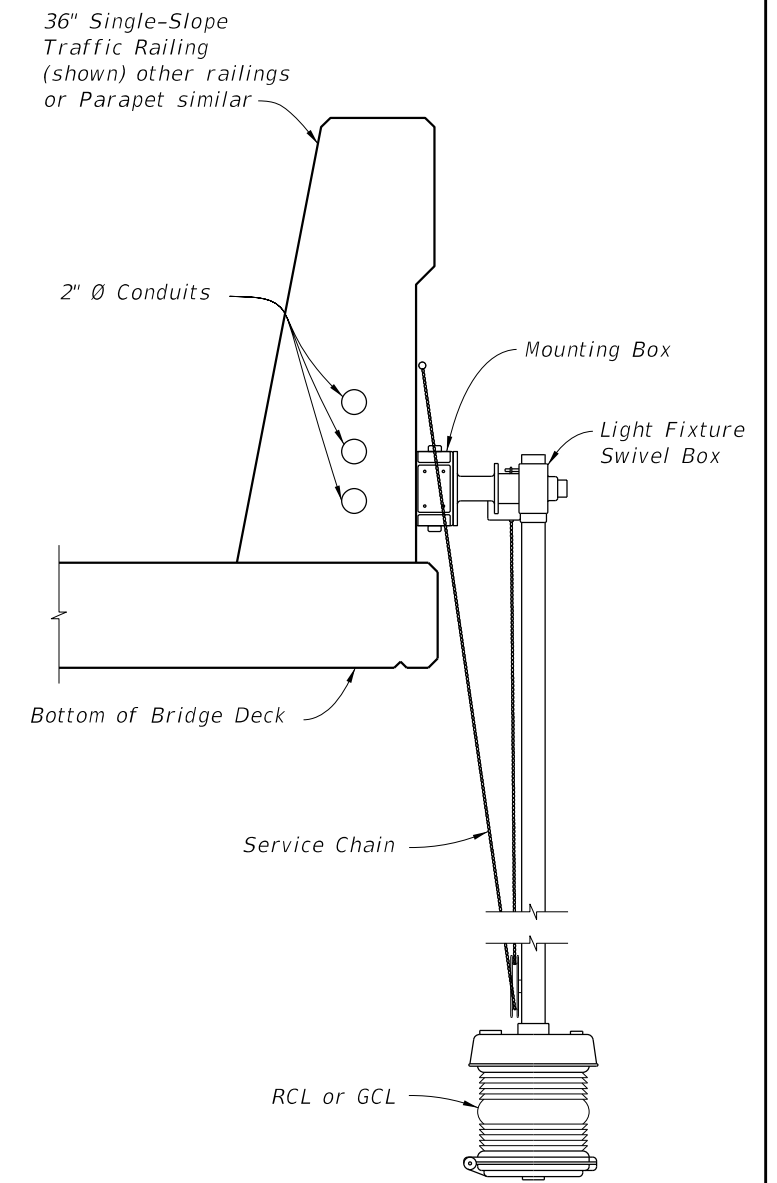


GCL OR RCL MOUNTING DETAILS (SCHEMATIC)
VIEW A-A

CROSS REFERENCES:
 1. For Navigation Light System notes and legend, see Sheet 1.
 2. See Utility Conduit Detail sheets for Embedded Junction Box (EJB) dimensions & locations.
 * Supplied by Light Fixture Manufacturer




GCL OR RCL MOUNTING DETAILS (SCHEMATIC)
ELEVATION VIEW
(Traffic Railing (36" Single-Slope) shown, other railings similar)



SECTION B-B
TYPICAL POSITION OF RCL OR GCL
RELATIVE TO SUPERSTRUCTURES

10/6/2025 3:08:05 PM

LAST REVISION 11/01/17	REVISION	DESCRIPTION:		FY 2026-27 STANDARD PLANS	NAVIGATION LIGHT SYSTEM DETAILS (FIXED BRIDGES)	INDEX 510-001	SHEET 2 of 2
---------------------------	----------	--------------	---	------------------------------	--	------------------	-----------------