

FLASHER SYSTEM NOTES:

The Bid Item "Pedestrian Flasher System" will include all the material, equipment, and labor to make a crosswalk system (2 poles with each having components) operational with a 12v DC solar power source. This includes, but not limited to, poles, bases, signs, beacons, radios, mounting hardware, wiring, concrete, reinforcement, and any other incidentals.

Rectangular Rapid Flashing Beacon (RRFB) shall meet or exceed FHWA standards. RRFB will be SAE J595 Class One Certified and flash in a yellow wigwag pattern. Housing color may be as per manufacture. Banding to be stainless steel or zinc-plated steel.

All signs shall be diamond grade sheeting on 0.08" aluminum panel.

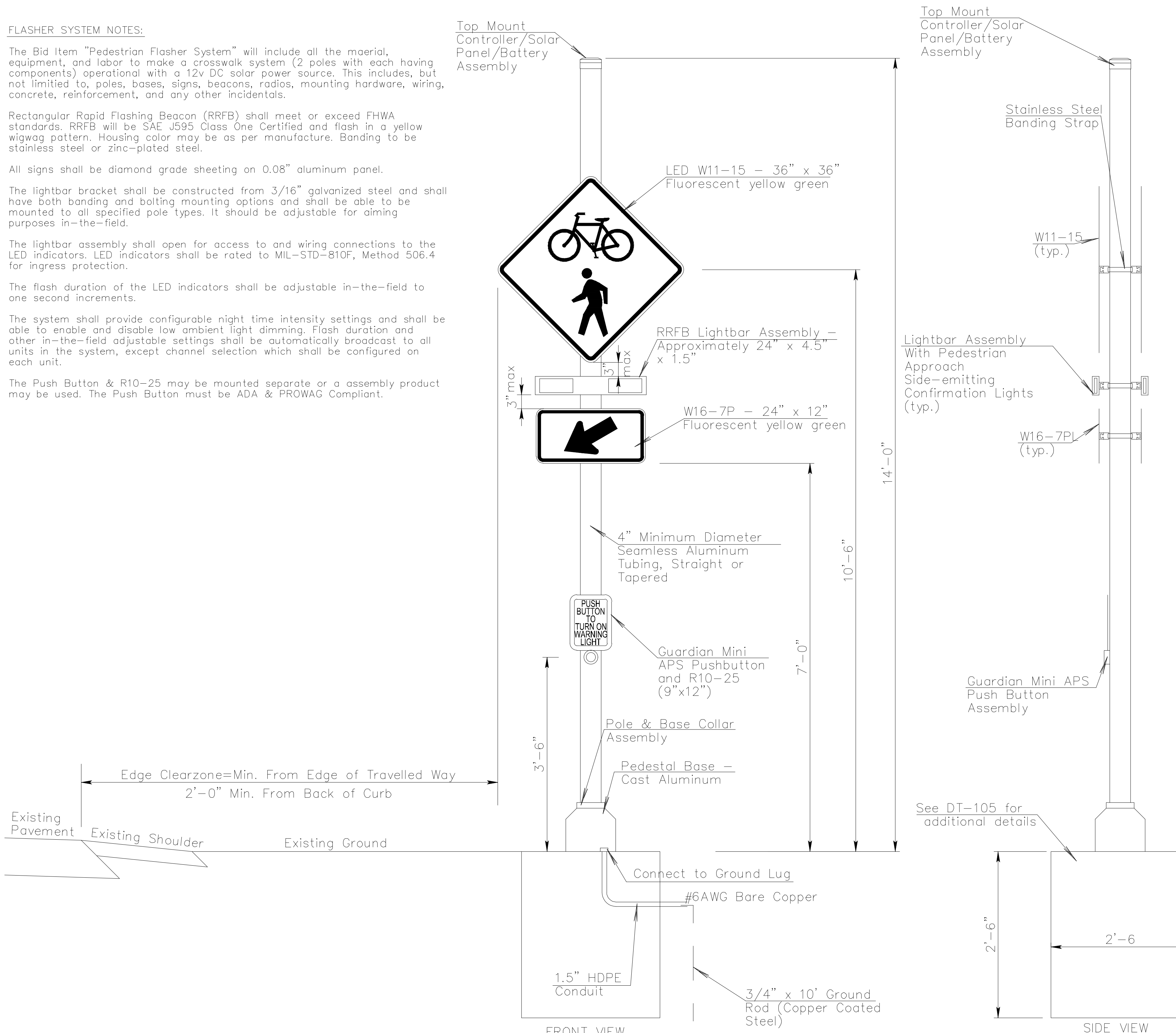
The lightbar bracket shall be constructed from 3/16" galvanized steel and shall have both banding and bolting mounting options and shall be able to be mounted to all specified pole types. It should be adjustable for aiming purposes in-the-field.

The lightbar assembly shall open for access to and wiring connections to the LED indicators. LED indicators shall be rated to MIL-STD-810F, Method 506.4 for ingress protection.

The flash duration of the LED indicators shall be adjustable in-the-field to one second increments.

The system shall provide configurable night time intensity settings and shall be able to enable and disable low ambient light dimming. Flash duration and other in-the-field adjustable settings shall be automatically broadcast to all units in the system, except channel selection which shall be configured on each unit.

The Push Button & R10-25 may be mounted separate or as an assembly product may be used. The Push Button must be ADA & PROWAG Compliant.



SUMMARY OF QUANTITIES -FOR INFORMATION ONLY
(Subsidiary to "Flashing Beacon System")

ITEM DESCRIPTION	QUANTITY	UNITS	PRODUCT REFERENCE
Aluminum Pole	2	Each	Pelco PB-5100, PNC
Pedestal Base with Ground Lug	2	Each	Pelco PB-5335, PNC
15' Pole & Base Collar, Cap & Anchorage	2	Each	Pelco PB-5325, PNC
Pole Cap Mount	2	Each	Carmanah MX100 Post Top Mount
Controller/Panel/Battery Assembly	2	Each	Carmanah MX100 Power Module
7 Ahr Battery	4	Each	AGM Type
Lightbar Assembly w/ Mount & Harness	4	Each	Carmanah MX Uni-Directional
W11-15 (36"x36") with LED Ring, Wiring Harness, & Mounting Clips	4	Each	Carmanah MX LED Sign Module Fluorescent yellow green
W16-7PL (24"x12") w/ Mounting Clips	2	Each	Fluorescent yellow green
W16-7PR (24"x12") w/ Mounting Clips	2	Each	Fluorescent yellow green
Push Button & R10-25 Assembly	2	Each	Guardian Mini APS, Campbell Co.
Stainless Steel Banding Straps	As Req.	Each	KDOT 206 Specification
#6AWG Bare Copper Wire	As Req.	Lin. Ft.	See KDOT Pre-Qualified Materials
5/8" Ground Rod Clamp	4	Each	Blackburn JAB34H
5/8" Ground Rod	4	Each	Galvan 7510 or Blackburn 7510
Metal Bushing	1	Each	0-Z/Gedney
Concrete Grade 4.0 (AE)	1.5	Cu. Yd.	City of Topeka Structure Mix
Reinforcing Steel (Grade 60)	50	Lbs.	See TE111B
Cable (2c with ground, #14AWG)	As Req.	Lin. Ft.	See KDOT Pre-Qualified Materials
1.5" Conduit (HDPE)	As Req.	Lin. Ft.	See KDOT Pre-Qualified Materials

If the Contractor wishes to use parts other than shown in the notes column, those parts shall be on the KDOT pre-qualified materials list and/or approved by the Project Engineer prior to installation. Any parts not specifically mentioned shall be on the KDOT pre-qualified materials list and/or approved by the Project Engineer.

Any lines or cables that are to cross the road shall be bored, jacked, or tunneled. This work shall be subsidiary to the Flashing Beacon System bid item.

The bid item "Flashing Beacon System" shall be paid for by the lump sum. The signal system shall be complete and the Contractor shall install all equipment and materials necessary for the satisfactory operation of the system whether specifically mentioned or not.

SUMMARY OF BID ITEMS

ITEM DESCRIPTION	QUANTITY	UNITS
Flashing Beacon System(Solar)(Wireless)	1	LUMP SUM

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: Joe Harrington
APP'D BY: _____

TOPEKA
Public Works
ENGINEERING
620 SE MADISON STREET - 2nd FLR. • TOPEKA, KS 66607
Phone: (785) 368-3842 • Fax: (785) 368-3881

STANDARD DETAILS
DT -114

RRFB DETAIL

DATE: _____
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PROJECT: _____