GROUND MOUNTED SOLAR POWERED SCHOOL FLASHING BEACON

65 Watt Solar Panel

12" Yellow LED's with tunnel covers, side by side mounting.

Aluminum slip fit collar, aluminum mounting brackets painted black

See Mounting Detail

5" Min., 8" Max.

12" Min., 15" Max.

12" Min.

12" Min.

"Puls" style antenna required.

(NAZTEC or equivalent)

Cabinet mounting brackets to be Pelco SS-1100 with gaskets for cabinet.

Aluminum slip fit collar.

Aluminum pedestal base assembly with aluminum door and ground ring.

20 LF 5/8 inch diameter copper clad ground rod, continuous or array.

Anchor bolts, set of four, 0.75 Inch diameter by 18 Inch length.

24 Inch diameter round footer, 48 inch depth. Type one concrete.

3/8" Bolt Circle

13/16" Square Normal

Pull box with two conduit sweeps required.

Sign panels, typical (See School Flashing Beacon Sign detail).

U-Bolt clamp assembly with 5/16 inch sign mounting hardware (PELCO SH4-208 or equivalent).

Two compartment flash cabinet:
Model: LGP-UNI100. Dimensions: 17" wide by 26" high by 9" deep, with mounting hardware including finisher, pug system, time switch and time switch harness. (NAZTEC Part # 00940-2933 or equivalent).

BASE PLATE DETAIL

END SCHOOL ZONE

S5-2 (24" x 30")

OPTIONAL END SCHOOL ZONE FLASHING BEACON

65 Watt Solar Panel

12" Yellow LED with tunnel door

SCHOOL FLASHING BEACON

SIGN DETAIL

55 Watt Solar Panel

2-12" Yellow LED's

S4-4P (24" x 10"

R2-1 (24" x 30"

15 MPH SPEED LIMIT

SPEEDING FINES DOUBLED

**OPTIONAL WHEN CLEARANCE ALLOWS

SCHOOL

S4-3P (24" x 8"

FTP-3B-06**

DRAWN BY: STEPHEN RAMGURAR
CHECKED BY: YVES D’ANDIOU, P.E.

1. This option shall be used in place of standard S5-2 signage as roadway conditions require.
2. End School Zone Flashing Beacon may be operated remotely from school flashing beacon or discretely as an entire solar flashing assembly. Refer to plans for requirements.
3. See Ground Mounted School Flashing Beacon Detail for equipment requirements, it operated as a discrete assembly.
4. Sign Beacon Assembly must have a current APL certification No. from PDOT.
5. Flashing beacon indications shall be flashed alternately, Beacons shall be flashed at a rate of not less than 50 or more than 80 times per minute. The illuminated period of each flash shall be a minimum of 1/2 and a maximum of 2/3 of the total cycle.

SOLAR SCHOOL FLASHER DETAILS
- GROUND MOUNT

PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

DESIGN BY: REBECCA MARTINEZ, P.E.
CHECKED BY: YVES D’ANDIOU, P.E.

SCALE: NTS

DATE
04-20-2016
11-06-2018
01-24-2020
DESCRIPTION
UPDATED PANEL REQUIREMENTS
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01-24-2020
UPDATED PANEL REQUIREMENTS

1 OF 1