

SOLAR TRAFFIC CONTROLS

“Wireless” Traffic Control Solutions

APPLICATION: *Advanced High-Water Flasher Warning System*

LOCATION: *Matteson, IL U.S.A.*

Description

Referred to as a distributed high-water flasher system, it is composed of 2 sensor stations located in the viaducts (the low point in the road) plus 4 flasher stations which are comprised of two 12-inch DC LED lamps, along with a variable message board preceding the viaducts in each direction. The message boards are set up to display a specific message.



Sensors in any of the viaducts can trip all 4 flasher stations. The physical configuration is such that if one viaduct floods, the other will flood shortly. One sensor tripping will cause the entire system to activate. Another feature on the sensor stations is the cellular alarm card which dials out to the monitoring service thus producing voice cell phone calls, faxes, emails and pages sent via email links to the paging company for the on-duty flashers.

“Viaduct Flooded” flashes on Solar Traffic Controls advanced high-water flasher warning system which incorporates features such as the ability to call the user with a verbal message announcing an alarm; also to email, fax and page. Uses Motorola police radios to pass the “on” command from the sensor stations to a combination of flasher-variable message signs.

Viaduct flooding has claimed two lives in Matteson since 1990. A 62-year-old Chicago man drowned after driving around two sets of barricades at the viaduct at 215th Street and Governors Highway. A 63-year-old Park Forest woman died in 1997 after her car was submerged under the flooded EJ&J Railroad viaduct on Governors Highway.

Viaduct flood gates installed in Matteson during 2003 have been equipped with Solar Traffic Controls' advanced high-water flasher warning system. If water levels reach 6-inches they will trigger a sensor that sends a message to SouthCom Combined Dispatch Center and the on-duty department of public works employees.

The sensors also activate flashing caution beacons and electronic message boards to alert motorists of flooding conditions. There are four sets of gates: one at 214th Street, one in each direction at 216th Street and one at 219th Street.

The village and state combined resources to pay for the gates, which is a pilot project in Illinois. The state provided \$42,000 through a grant from Illinois First funds and \$100,000 in Transportation Equity Act-21st Century funds. Matteson's contribution was \$75,000.

Provide Your Requirements to Solar Traffic Controls

Name _____
Company _____
Address _____
City _____ State _____ Zip _____
Telephone (____) _____ Fax (____) _____ Cellular (____) _____
e-mail _____

The success of your solar-powered project is based on three things:

- **Location: where your application site is - nearest town and state**
- **Load: number and size of lamps, timers and other controls - anything which draws power.**
- **Duty Cycle: hours per day and number of days per week the load is active (on).**

The above information enables us to provide you with a Sizing Report which forms the basis of your warranty.

Type of System

(please check your requirements)

Solar Flasher

Lamp Size: 12 inches 8 inches Other - Please indicate size _____
Lamps per pole: 1 2 Other - Please indicate quantity _____
Lamp Color: Amber Red
Type: School Zone 24-Hour Sensor Activated
Run time: _____ hours per day _____ # of days per week
Module Option: Vandal Resistant Activation: Timer Pager

DCUPS Flasher

Lamp Size: 12 inches 8 inches Other - Please indicate size _____
Lamps per pole: 1 2 Other - Please indicate quantity _____
Lamp Color: Amber Red
Type: School Zone 24-Hour Sensor Activated
Run time: _____ hours per day _____ # of days per week
Module Option: Vandal Resistant Activation: Timer Pager

Sensor Power System

Sensor load: _____ amps/watts
Communications Load: _____ amps/watts

Location

Application Site (nearest town): _____
State/Province: _____

*Please fill in your requirements with **blue or black pen**. Please **fax** to Solar Traffic Controls at 480-449-9367.
Questions? Please call us at 480-449-0222. We will contact you with a quote for your system.*



For more information

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