



## **“Wireless” Traffic Control Solutions**

**APPLICATION:** *Traffic Safety Improvements*

**LOCATION:** San Marcos, California U.S.A.

### **Description**

Solar Traffic Controls (STC) has furnished 19 "wireless" traffic control systems to the City of San Marcos, CA. STC's southern California distributor, J & J Sales, worked with the city to provide the equipment which included SpeedCheck radar speed signs from Information Display Corp. with solar-powered systems from STC. Other configurations were dual 12-inch school flashers and combinations of school flashers and radar speed display systems. These were fielded primarily for school zone safety projects throughout the city.

All systems are designed to operate up to 4 hours per day. Some radar signs will run continuously. All scheduled operations are controlled using the STC-01 time clock which allows up to six on/off activations per day; 16

holiday skip periods; and 12 alternate schedule periods. School flashers feature dual 12-inch amber DC flashing beacons to alert motorists to reduced speed limits when flashing. The lamps have an optical output of 1100 candela on center: one of the brightest on the market thus making them more visible in a range of weather conditions especially bright sunlight.

The city also purchased an STC-01 Desktop Programmer package with additional memory chips. The Desktop Programmer allows city personnel to enter the school program into the desktop unit and upload it to the memory chips. Various school schedules may be loaded into different memory chips, taken to the field and downloaded to the field clocks. Field personnel do not have to take a computing device or related cables to download schedules into the clocks nor stand in front of each field clock to enter the program using a keypad.



Installation of the systems was completed by Select Electric under the supervision of a J & J technical staff member. Funding for the project was through a state grant. The city has reported a positive response from the public and is placing follow-on orders for more systems.

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**Take these steps to insure the success of your solar-powered project:**

1. Location - identify the site of the application; for example, the nearest town, village or city and state.
2. Load - specify the number and size of lamps, timers or other controls (anything which draws power).
3. Duty Cycle - determine how many hours per day and which days per week the load will be drawing power.

**Go to "Send us your requirements" at [www.SolarTrafficControls.com/support/requirements.php](http://www.SolarTrafficControls.com/support/requirements.php) for more details.**

**Solar Power: a free source of energy**

STC's solar-powered systems are designed for quick and easy installation in the field. Our careful front-end engineering minimizes your installation costs and provides years of trouble-free operation. The standard solar power system includes the solar array, system enclosure with all the necessary electronics, color-coded wiring harnesses, sealed batteries and full documentation. DC LED lamp kits can also be purchased. These include the LED beacon, lamp housing and mounting hardware.

**STC Systems are Cost Effective**

Our solar flasher systems allow you to stretch your budget to obtain the traffic safety devices you need at affordable prices. Most systems are equivalent to the cost of obtaining an AC power drop. Battery life is typically three to six years; less expensive than grid electricity for the same period of time.

Solar Traffic Controls (STC) provides solar-powered traffic control systems for city, state and federal DOTs; police, firefighting and public works departments; facility maintenance and plant safety industries. Our primary products are solar-powered flashing beacon systems used for school zones and 24-hour applications. We also supply specialized flasher systems using environmental sensors and custom communications packages to control the flashing beacon systems. Our product spectrum also includes wireless power systems for ITS, EMS and HAR. STC's products and services are sold through a network of regional distributors who offer technical support for your project.

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