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NW 9TH AVENUE

(POWERLINE ROAD CROSSWALK LIGHTING PROJECT)

PREPARED FOR

CITY OF WILTON MANORS



PREPARED FOR:
 CITY OF WILTON MANORS
 LOCATION:
 WILTON MANORS, FLORIDA
 SECTION 28, TOWNSHIP 49S, RANGE 42E

PROJECT TEAM

OWNER:
 CITY OF WILTON MANORS
 2020 WILTON DRIVE
 WILTON MANORS, FL 33305
 (954) 390-2100

CIVIL ENGINEER:
 KIMLEY-HORN & ASSOCIATES
 STEFANO F. VIOLA, P.E.
 8201 PETERS ROAD, SUITE 2200
 PLANTATION, FL 33324
 (954) 535-5100
 STEFANO.VIOLA@KIMLEY-HORN.COM

UTILITY PROVIDERS

WATER, SEWER, STORM:
 CITY OF OAKLAND PARK
 CONTACT: CHRIS LIPS
 5100 NE 12TH TER
 OAKLAND, FL 33334
 (954) 828-5875

WATER, SEWER:
 CITY OF FORT LAUDERDALE
 CONTACT: CRAIG BARRETT
 100 N ANDREWS AVE.
 FORT LAUDERDALE, FL 33301
 (954) 828-5875

FIBER:
 CROWN CASTLE FIBER
 1500 CORPORATE DR.
 CANONSBURG, PA 15317
 (800) 654-3110

WATER AND SEWER:
 CITY OF WILTON MANORS
 CONTACT: C/O WILTON MANORS
 2020 WILTON DR.
 WILTON MANORS, FL 33305
 (954) 390-2190

COMCAST:
 CONTACT: RICHARD DAVIDSON
 6565 NOVIA DR.
 DAVIE, FL 33317
 (786) 586-8505

FPL - BROWARD
 CONTACT: JOEL BRAY
 2455 PORT WEST BLVD CRS/PDC
 BUILDING-A, RIVIERA BEACH, FL 33407
 (386) 586-6403

GAS:
 TECO PEOPLES GAS SOUTH FLORIDA
 CONTACT: JOAN DOMNING
 8416 PALM RIVER RD.
 TAMPA, FL 33619
 (813) 275-3783
 JDOMNING@TECOENERGY.COM

AT&T CONTACT: DINO FARRUGGIO
 6628 LAKESIDE RD.
 WEST PALM BEACH, FL 33411
 (561) 683-2729

CITY OF WILTON MANORS CITY OFFICIALS

SCOTT NEWTON
 PAUL ROLLI
 MIKE BRACCHI
 CHRIS CAPUTO
 GARY RESNICK
 LEIGH ANN HENDERSON

MAYOR
 VICE MAYOR
 COMMISSIONER
 COMMISSIONER
 COMMISSIONER
 CITY MANAGER

ALL ELEVATIONS SHOWN ON
 THESE PLANS ARE BASED ON
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 DATUM 1988 (NAVD 88)

CALL 2 WORKING DAYS
 BEFORE YOU DIG

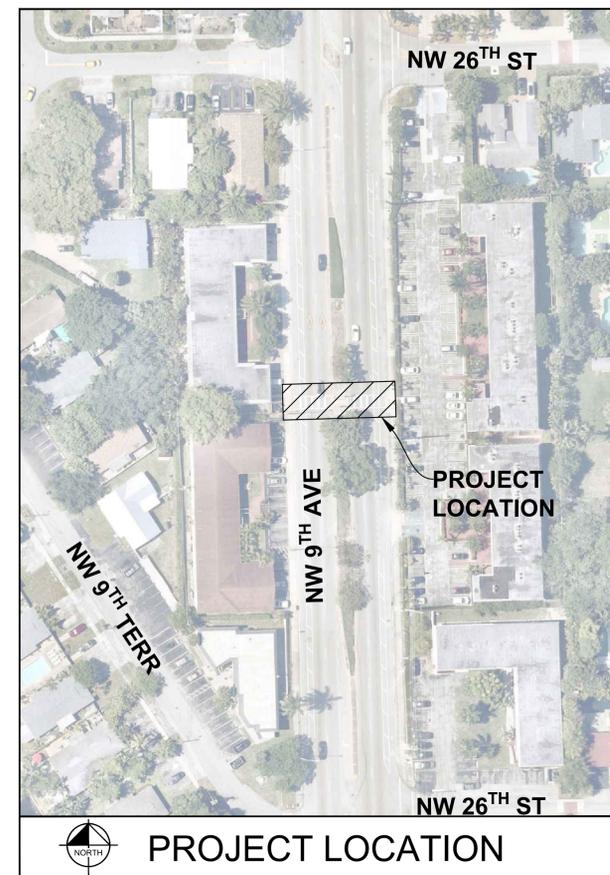


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Know what's below.
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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

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C000.0	COVER SHEET
C100.0	GENERAL NOTES
C200.0	ROADWAY PLAN
C201.0	ROADWAY DETAILS



PROJECT
 NW 9TH AVENUE (IRWL IMPROVEMENTS)

PROJECT NUMBER
 143310020

PROJECT LOCATION
 WILTON MANORS, FLORIDA

PREPARED FOR:



PREPARED BY:

Kimley»Horn

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 8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
 PHONE: 954-535-5100 FAX: 954-739-2247
 WWW.KIMLEY-HORN.COM REGISTRY No. 696

No.	REVISIONS	DATE	BY

DATE: 12/23/2025

BID PLANS

THE PUBLIC ROADWAY(S) INDICATED IN THESE PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS & HIGHWAYS - STATE OF FLORIDA."
 ATTENTION, THESE PLANS MAY HAVE REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE TAKEN INTO ACCOUNT WHEN OBTAINING SCALED DATA.

BID PLANS - NOT FOR CONSTRUCTION



TS1200
Crosswalk System Controller
Solar Powered Model

General Description

The patented and UL Listed TS1200 is a next-generation controller designed from the ground up for superior performance, easy installation and outstanding reliability. Using state-of-the-art micro-controller technology, the TS1200 provides both standard and enhanced user selectable flash patterns:

- Standard MUTCD Pattern (50 or 60 flashes per minute)
- Seven MUTCD Compliant Enhanced Patterns
- Auto-sequencing Flash Pattern Mode

Each enhanced flash is composed of a unique pattern of pulses sent during the flash period and conforms to MUTCD requirements. The Auto-sequencing Flash Pattern Mode continuously cycles through all seven enhanced flash patterns, displaying a single pattern during each activation period.

The TS1200 is available in either an AC powered or Solar powered model. The TS1200 supports a wide range of crosswalk system configurations, and is compatible with standard activation devices (push-buttons, bollards) and standard pre-wiring devices (LED flashing signs and beacons).

Why Our Crosswalk System Controller Is Better

Superior Performance

- UL Listed: UL has tested the TS1200 and determined that it meets UL's requirements. These requirements are based primarily on UL's published and nationally recognized Standards for Safety.
- Activation devices supported simultaneously: Push-buttons, Motion Sensors, and Bollards can be connected simultaneously to the same controller to activate the light fixtures.
- Manual Dimming Control Supported: Dimming fixtures can now be dimmed with the use of a knob in the controller.
- Photocell Dimming Control Supported: Dimming fixtures can be dimmed at night to reduce glare and then return to full brightness during the day.

- TSC Enhanced Flash Patterns and Auto-sequencing Flash Pattern Mode are designed to maximize pedestrian safety by increasing driver awareness and response to warning systems.
- Generation of contrasting flash patterns to crosswalk and pre-warning systems is supported by dual DC outputs.
- An activation override switch provides for continuous flashing of crosswalk during sporting and other high-traffic events.

Easy Installation

- Conveniently located, clearly labeled wiring blocks simplify field wiring and allow easy access during installation.
- LED status and digital displays allow easy verification of system operation and configuration during setup and testing.
- Controls are provided for easy onsite customization of system operation.

Outstanding Reliability

- Conformal coating material on circuits protects against moisture, dust, chemicals and temperature extremes.
- Internal components are protected by input and output surge protection, and replaceable fuses to protect against output overload conditions.
- Polycarbonate enclosure with 316 stainless steel dual locking latch mechanism provides protection from adverse weather and security from unauthorized access. NEMA 3R/4X compliant. Polycarbonate is non-corrosive and non-conductive. It is easier to modify, weighs less, and has a longer life cycle than steel enclosures.



Ordering Codes

Product Code	Model	Activation Options	Options
SC-TS1200	-SP: Solar Powered	- 1: BDL3 Push-buttons - 2: TC26-B Vehicle Motion Sensor - 3: Programmable Timer - 4: Photo-Sensor Bollards	- DP: Dimming with Photocell
SC-SBE-2KIT	Solar Battery Enclosure Assembly includes enclosure for 2 batteries & Charger Controller Assembly (SS10L-12V).		

- Notes: 1. Please contact TSC to discuss any modifications or additions to the controller system.
2. Pole Mounting Bracket Kit (SC-6000) supports U-bolts for pipe sizes 2" to 4" and 6" to 8". U-bolts and pipe not included.
3. With dimming option, photocell can be bypassed if dimming needs to be done manually.
4. UL labeled controllers only available for shipment to U.S. and Canada.
5. Shipping dimensions: 15" x 15" x 10" (38cm x 38cm x 25cm). Shipping weight: 11 lb. (5 kg)

Solar Panel	Qty.	Battery	Qty.
SL-PANEL65-HPM: Solar Panel 65W		SL-SG24: Solar Gel Battery 73.6AH@20h	
SL-PANEL90-HPM: Solar Panel 90W		SL-SG31: Solar Gel Battery 97.6AH@20h	
SL-PANEL130-SPM: Solar Panel 130W		Standard configuration: 90W Solar Panel, (2) SL-SG31 Solar Batteries. Please contact TSC to discuss any modifications or additions to the controller system.	
SL-PANEL140-SPM: Solar Panel 140W			

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TS-400
Self-Cleaning, Bi-Directional Fixture
In-Roadway Warning Lighting Systems

General Description

The TS-400 fixture is designed as a cost effective solution for In-Roadway Warning Lighting Systems where snowplows are not employed. The TS-400's outstanding durability and low maintenance design makes it ideal for applications where after installation costs must be minimized. The use of Highbright LED energy efficient technology provides superior visibility and energy efficiency, making the TS-400 ideal for solar power applications. The Bi-directional design of the TS-400 allows backlighting of pedestrians in the crosswalk, further improving pedestrian safety.

The TS-400 is typically used in crosswalk applications, but is often used in school zone or railroad crossing, lane control for bridges and tunnels, wrong way warning, and toll booth or toll way lead-on applications.

All In-Roadway Warning Lighting System components are available from TSC. A typical installation would include a set of fixtures, a control system, one or more activation devices such as a pedestrian push button station or pedestrian detection pad, and flashing LED crossing signs.

Why Our TS-400 Is Better

Outstanding Durability

- Corrosion resistant anodized aluminum body stands up to traffic wear and weather.
- High static load rating (44,000 lb.) reduces likelihood of damage from heavy vehicles.

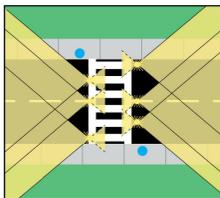
Superior Visibility and Energy Efficiency

- Bi-directional design improves visibility of pedestrians in crosswalks.
- Highbright LEDs produce a brightness level of over 600,000 candelas per meter squared making them clearly visible in daytime and under the worst weather conditions.
- Highbright 12 Volt LEDs consume only 3 watts/fixture making them ideal for energy efficient solar power applications.



Low Maintenance

- Re-usable design reduces the cost, effort and time during resurfacing of the road.
- Self-cleaning lens design reduces build-up of dirt and need for frequent cleaning.
- Pressurized light cavity keeps moisture out and reduces the frequency of replacement.
- Pre-focused optics eliminates the requirement of field adjustments.
- Long life LEDs (Average rated life of 10 years) reduces frequency of replacement.



Application: Two Way, One Lane Each Way

Ordering Codes

Fixture	Directional	Beam	LED Color	Lamp	Options
TS-400	BI	Narrow/Narrow	—	—	—
TS-420	BI	Wide/Wide	—	L: 12V LED Array	—
TS-450	BI	Wide/Narrow	—	L: 120V/240V	D: Dimming
TS-401	UNI	Narrow	—	LED 50/60hz	—
TS-421	UNI	Wide	—	—	—

- Notes: 1. LED Color: Y = Yellow, R = Red, X = Blank (Specify both lens).
2. Standard fixture operating voltage is 120V. Fixtures may also be operated from 24VDC in certain applications. Operation at 24VDC requires driver modification.
3. The self-cleaning fixture will be effective only if fixture is installed on road grade.
4. TSC supports In-Roadway Warning Lighting Systems with Highbright LEDs and Glass Lens (LA-00814).
5. Base Case (BA-725-5). Base Case Enclosure (BA-725-5X), Spacers (BA-725-5P) and Gaskets (BA-725-5GK) are available for the TS-400 Fixture.
6. Power consumption is 3 watts per fixture.
7. Trench Connector (CS-3050002) is available for power source hookup.
8. Fixture repair package available (LA-00814-KIT), includes LED Array, LED Driver, and Gaskets, plus factory installation, testing and burn-in.
9. Dimming option will only work with the TS-400 and TS-420 controllers.

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TS1200
Crosswalk System Controller
Solar Powered Model

b. Solar modules shall be able to be securely mounted to the top of a 4.5" O.D. pole assembly, or attached to larger diameter poles with a side pole mount structure that has been specifically designed to hold solar modules. All of the necessary hardware to install the modules to the mounts, and the mounts to the pole, shall be included in the bid. Security hardware for securing the module to the mount shall be included along with any special tools required for the hardware. Mounts made of steel will be powder coated or hot dip galvanized. Aluminum module mounts can be either powder coated or feature a mill finish.

13. System Batteries:

- The system shall come equipped with the number and type of batteries detailed in the sizing report. The battery type shall be a sealed, maintenance-free, valve-regulated design. The battery shall be a Gel or Absorbed Glass Mat (AGM) type, to suspend the electrolyte making it immobile.
- Gel batteries using a thixotropic gel to suspend the electrolyte, shall also be considered an acceptable alternate.
- Acceptable battery sizes that can be accommodated shall include either one or two batteries, up to group size 31.

14. **General Specifications:** Solar power supplies provided for use with in-pavement crosswalk systems shall be designed to act as a stand-alone power source for the system. Any response to bid shall require a specification report containing the following data: a. Site information shall take into account average monthly solar insolation at a 45° tilt angle, average monthly temperature at the site, and latitude and longitude of the nearest city/town.

- In the event that no data point exists for the given city/town where the installation will be done, sizing shall be prepared for the nearest data point available around the installation site featuring similar geographical and/or climatic conditions.
- Load tabulation shall be included to detail the number, type and duty cycle of all loads in the system.
- The report shall include the type of solar module to be used by model and manufacturer.
- Type of battery shall be provided by model and brand name. Projected days of autonomy shall be provided with the battery information. The system shall support a minimum autonomy of 5 days, unless otherwise specified by the customer.
- The worst case array to load ratio shall also be provided. Minimum acceptable array to load ratio for the solar system shall be 1.05 or greater in December when using the maximum power draw for the loads.
- A system derating factor shall be included in the sizing report component sizing calculations to cover any losses from solar panel output mismatch, dirt/dust accumulation on panels, aging and losses due to system wiring. Losses may appear as a combined derating factor, but a thorough description of the sources of all losses accounted for shall be provided. Failure to provide a sizing report shall be considered non-responsive and result in disqualification, in which case the bid will be rejected.

15. **Warranty:** The crosswalk system controller shall be warranted against defects in workmanship and materials for one year from date of shipment and is eligible for TSC's 5-Year Limited System Warranty. Excluded from the TSC warranty are the solar array and battery. These components are covered under the warranty of their respective manufacturer.

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TS-400
Self-Cleaning, Bi-Directional Fixture
In-Roadway Warning Lighting Systems

How to Specify the TS-400 Family of Self-Cleaning Bi-Directional Fixtures

The fixture shall be model TS-4xx-YYL/YXL1 as marketed by Traffic Safety Corporation or approved equal. In order to be considered equal, the alternate fixture shall satisfy the following requirements.

Construction – The fixture shall have bi-directional and uni-directional capability, have a modular design comprised of 6 major parts with the top and bottom castings of high tensile strength aluminum alloy. The top and bottom casting shall be sealed by means of a flat gasket. The fixture shall have a smooth shaped face projecting not more than 0.64" when installed in the factory provided mounting base. The fixture shall incorporate a self-cleaning design with an outward sloping light channel to promote drainage and facilitate maintenance. Diameter shall not exceed 8" and all mounting hardware shall be stainless steel. Fixture will operate on 12 VDC and be furnished pre-wired with a waterproof 90P plug.

Durability – Fixture shall withstand a static load of 44,000 lb. without sustaining permanent deformation or cracking of materials. Leads, gaskets, etc. shall be rated to withstand 300 degrees F.

LED/Light Cavity – The fixture's light beam shall be refractor controlled and pre-focused to simplify maintenance. The refractors shall be molded high performance optical grade glass and formed to provide a sealed fit within the fixture. High density silicone rubber gaskets shall be used to provide a proper seal. There will be two hardened glass refractors per fixture, one aimed at 0 degrees and the other aimed at 180 degrees, to be installed parallel to roadway center line. To prevent moisture intrusion, each fixture shall be installed with a Schrader valve to facilitate verification that the entire assembly is sealed at the time of installation and to allow for re-testing during maintenance. Two refractor beam spread options shall be provided – 60 degrees and 10 degrees, as well as the capability to operate in a uni-directional mode through the use of a blank plate. The glass refractor pointed towards the inside of the crosswalk shall normally have a beam angle of 60 degrees. To facilitate early onset of the driver's awareness of the crosswalk, the outward facing refractors shall normally have beam angle of 10 degrees, except on curves were a 60 degree beam may be more desirable. In some cases it may be desirable to utilize the fixture in a uni-directional mode and a blank may be inserted in place of one of the refractors.

Photometric Performance – The fixture shall be clearly visible in any weather condition, daytime and at night, and shall produce a yellow light using a 12 Volt, 3 watt LED array with a brightness level of more than 600,000 candelas per meter squared using the 10 degree refractor option.

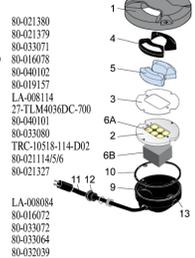
Finish – The top cover shall be natural anodized aluminum, grey in color. The bottom cover shall have a black powder coat.

Mounting Base – Fixture shall be installed in mounting base (TSC #BA-725-5-2MR) of high strength steel, hot dip galvanized after fabrication per ASTM-153 specifications, with a 7.25" diameter bolt circle, a 0.75" mud ring, and standard base depth of 5". The mud ring shall be detachable from the base. Mounting base without mud ring shall be made available upon request. The base shall be supplied with a plywood cover to protect the mounting flange during installation.

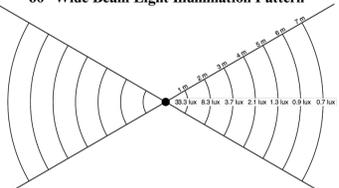
Warranty – Fixture shall be warranted by the manufacturer against defects in materials and workmanship for one year from date of shipment and is eligible for TSC's 5-Year Limited System Warranty.

Replacement Parts

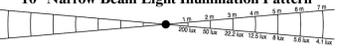
- Body casting 80-021380
- Prism clamp 80-021379
- Prism clamp gasket 80-033071
- Glass gasket (2) 80-016078
- Glass prism (1 or 2 Narrow), LED Blanking prism (optional) 80-040102
- Color filters (not shown): yellow 80-019157
- 12V LED High Bright LA-00814
- LED Driver 27-TL4604DC-700
- Bottom cover 80-040101
- Bottom cover gasket 80-033080
- Fixture lead, male TRC-10518-114-D02
- Cable gland assembly 80-02114536
- Schrader (bicycle) valve 80-021327



60° Wide Beam Light Illumination Pattern



10° Narrow Beam Light Illumination Pattern



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TS1200
Crosswalk System Controller
Solar Powered Model

How to Specify the TS1200-SP Crosswalk System Controller

The system controller shall be model SC-TS1200-SP as marketed by Traffic Safety Corporation or approved equal. In order to be approved equal, the proposed device must satisfy the following requirements:

- System controller shall support multiple MUTCD compliant regular and enhanced flash patterns, and be capable of auto-sequencing through all enhanced flash patterns, one pattern per activation period.
- System must be UL Listed.
- System shall support operation of multiple activation devices simultaneously.
- System shall support both manual and photocell dimming control.
- Output pattern operation, power limitations and output flash pattern selection:
 - Output A (Primary DC Power Output)**
The actual maximum power output shall be specified in the sizing report.
 - Output B (Secondary DC Power Output)**
The actual maximum power output shall be specified in the sizing report. The output flash pattern shall be selected by a set of output mode selector switches (1-4) located on the control card: 1-Same as primary; 2-In sync with primary, but non-enhanced; 3-Non-enhanced complement of primary; 4-Continuously on while primary is flashing. Notes: (a) Enhanced flash patterns are not used when operating in wig-wag mode. (b) Only one output mode switch can be on (closed) at a time for proper operation of the system.

c. The combined output power of the primary and secondary DC outputs shall be specified in the sizing report.

6. System controller shall be based on an integrated, high-speed 8-bit microcontroller with non-volatile firmware and memory. All settings must be retained in the event that input power is removed.

7. System controller shall include the following controls and indicators:

- Power LED Indicator:** A visual indicator LED shall be provided to indicate the "power on" condition.
- Activation Duration Setting:** Activation duration shall be field adjustable in one-second increments, over a range of 1 to 99 seconds. Duration setting shall be displayed on a digital numeric display.
- Flash Pattern Setting:** Flash pattern setting shall be field adjustable and be displayed on a digital numeric display.
- Push-Button Test and LED Indicator:** System shall include an internal push-button used to activate the system during field tests. System shall include a visual indicator LED to indicate internal push-button and external activation device calls.
- Override Switch:** System shall include an override switch to allow switching from manual system activation to continuous system activation.
- Output LED Indicators:** System shall include visual indicator LEDs which indicate: system activation, primary output (A), and secondary output (B) status.

8. System shall support activation from standard contact-closure type push-buttons and push-buttons with audio message capability.

9. System shall provide a field selectable option to allow an activation call to be ignored, or be used to reset the cycle during an ongoing crossing cycle.

10. System Protection: Outputs A and B shall be protected by a replaceable fuse.

11. System Controller Enclosure: The system shall include a single enclosure for ease of installation. The system shall be housed in a NEMA 3R/4X compliant, polycarbonate enclosure with approximate dimensions of (14" H x 12" W x 6" D) to provide protection from adverse weather conditions. The enclosure shall be supplied with a 316 stainless steel dual locking latch mechanism for security from unauthorized access.

12. Solar Modules and Mounting Structures:

- The modules shall consist of a minimum of 36 crystalline cells in series. Cells shall feature an anti-reflective coating and a low iron glass covering. Cells shall be encapsulated to protect them from the environment. Each module shall feature a weather tight junction box for connecting the array output cable to the module terminals. Power modules greater than 60 watts shall feature a minimum warranty of 15 years for power output. Modules, 20 to 50 watts, shall feature a minimum warranty of 5 years for power output. All modules shall feature an anodized aluminum frame for mechanical support.

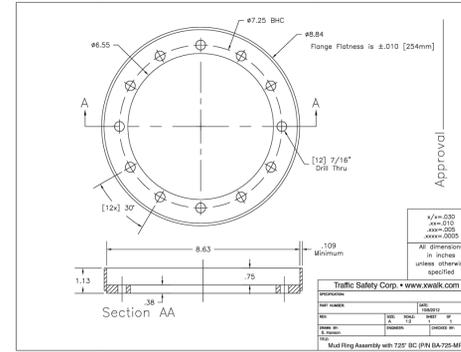
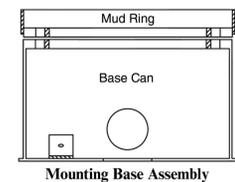
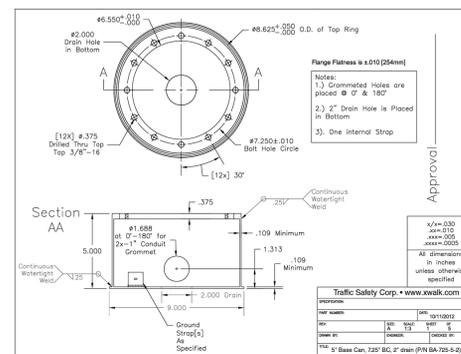
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TS-400
Self-Cleaning, Bi-Directional Fixture
In-Roadway Warning Lighting Systems



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KIMLEY-HORN AND ASSOCIATES, INC.		KIMLEY-HORN AND ASSOCIATES, INC.		KIMLEY-HORN AND ASSOCIATES, INC.	
8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324		8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324		8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324	
PHONE: 954-535-5100		PHONE: 954-535-5100		PHONE: 954-535-5100	
FAX: 954-739-2247		FAX: 954-739-2247		FAX: 954-739-2247	
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