



Ocean County Board of Commissioners

OFFICE OF THE
OCEAN COUNTY COMMISSIONERS

Director John P. Kelly
Deputy Director Frank Sadeghi
Commissioner Robert S. Arace
Commissioner Jennifer Bacchione
Commissioner Virginia E. Haines

101 Hooper Avenue
Toms River, New Jersey
08754-2191
(732)929-2005
(732)505-1918

Board Meeting Agenda

Date: August 6, 2025 - 4:00 PM
Location: Administration Building
Room 119
101 Hooper Avenue
Toms River, NJ 08754

Agenda: Awarding Contracts for the furnishing and delivery of SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS to Best Line Leasing, Inc. and National Highway Products, Inc., the lowest qualified bidders. (B2025-103)

Official Resolution#	2025001101
Meeting Date	08/06/2025
Introduced Date	08/06/2025
Adopted Date	08/06/2025
Agenda Item	k-2
CAF #	
Purchase Req. #	B2025-103
Result	Adopted

COUNTY COMMISSIONER	PRES.	ABS.	MOVE	SEC	AYE	NAY	ABST.
Kelly	✓				✓		
Sadeghi	✓				✓		
Arace	✓		✓		✓		
Bacchione	✓			✓	✓		
Haines		✓					

I HEREBY CERTIFY THAT THIS DOCUMENT IS A TRUE, COMPLETE AND ACCURATE COPY OF THIS RESOLUTION, ADOPTED BY OCEAN COUNTY BOARD OF COMMISSIONERS, NJ AT THE MEETING REFERENCED THEREON

Michelle I. Gunther

Clerk Of The Board

RESOLUTION

August 6, 2025

WHEREAS, on June 10, 2025, pursuant to legal advertisements therefor, sealed bids were received for the furnishing and delivery of SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS for the County of Ocean; and

WHEREAS, at the advertised time, responses were received from the following bidders:

Name and Address of Bidder

Name and Address of Bidder

Best Line Leasing, Inc.
 2582 Gateway Drive
 State College, PA 16801
 (814) 237-5156

National Highway Products, Inc.
 301 Riverside Drive
 Millville, NJ 08332
 (856) 692-7572

Atlas Flasher & Supply, Co., Inc.
 430 Swedesboro Avenue
 Mickleton, NJ 08056
 (856) 423-3333

K. Moorea Co. LLC dba Traffic Plan
 5300 Asbury Road
 Farmingdale, NJ 07727
 (732) 984-1697

Morgan Inland LLC
 380 Tennant Avenue-Unit 3
 Morgan Hill, CA 95037
 (415) 992-8345

United Rentals (North America), Inc.
 100 Stamford Place-Suite 700
 Stamford, CT 06902
 (877) 874-4468

; and

WHEREAS, after receipt and examination of same, the County Purchasing Agent has now recommended to this Board that the lowest qualified bids, according to specifications, be accepted, namely that of BEST LINE LEASING, INC., and NATIONAL HIGHWAY PRODUCTS, INC.

NOW, THEREFORE, BE IT RESOLVED by the BOARD OF COMMISSIONERS of the COUNTY OF OCEAN, STATE OF NEW JERSEY, as follows:

1. The Director and Clerk of this Board are hereby authorized and directed to enter into contracts, for the furnishing and delivery of Solar Powered Message Signs and Portable Light Towers for the County of Ocean, for the contract shall be for a one(1) year term beginning August 21, 2025 and ending on August 20, 2026, or until delivery is complete unless otherwise stated. The County reserves the right to extend the term of the contract pursuant to N.J.S.A. 40A:11-15.

A. BEST LINE LEASING, INC. for two (2) items, to wit:

ITEM NOS. 2 and 3.

This vendor has extended this contract to County Cooperative Contract System Participants, Identifier No. CK-02-OC.

B. NATIONAL HIGHWAY PRODUCTS, INC. for three (3) items, to wit:

ITEM NOS. 1, 4 and 5.

This vendor has extended this contract to County Cooperative Contract System Participants, Identifier No. CK-02-OC.

2. Pursuant to N.J.A.C. 5:30-5.4, the County has established a reasonable estimated maximum dollar value of \$201,600.00 for the term of this contract, based on historical procurement data for comparable goods or services. The County further reserves the right to increase quantities by up to twenty percent (20%) of the maximum awarded amount at the unit prices bid, in accordance with N.J.A.C. 5:30-11.3.

3. Funds for the materials or services described herein shall be made available through operating and expense (O&E) accounts, trust accounts, grant accounts, or capital accounts maintained by, but not limited to, the following departments: Engineering and Roads Department.

4. Payments for the materials to be acquired by these contracts shall be made upon the approval of vouchers submitted by the successful bidders in accordance with the requirements of the Board of Commissioners and subject to the Board of Commissioners customary procedures. Delivery shall be made upon receipt of a Purchase Order issued by the Ocean County Department of Purchase, upon which delivery locations and needed quantities shall be indicated.

5. The contract number must be placed on all papers, documents, invoices and vouchers pertaining to said contract, the number being B2025-103.

BE IT FURTHER RESOLVED that certified copies of this Resolution shall be made available to the County Auditor, Department of Purchasing, Department of Finance, Engineering, Roads Department and the successful bidders.

[BEST LINE LEASING, INC.] RESPONSE DOCUMENT REPORT
 Bid No. TBD
 SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Comments
2	Furnish and Delivery of New Light Tower, Wacker Neuson Model #LTW20Z1, As Specified, or Equal	5	EA	\$28,300.00	\$141,500.00		Wacker Nueson LTG14 Wide Body. Specified model no longer available
3	Furnish and Delivery of SolarTech Silent Messenger II Message Board Mid-Sized, Model MB II, As Specified, or Equal	2	EA	\$17,328.00	\$34,656.00		As specified
4	Furnish and Delivery of SolarTech Silent Messenger Full Size Message Board, Model MB III, As Specified, or Equal	2	EA	\$22,422.00	\$44,844.00		Quote is for MB1 Standard 126" x 76" - Note: the MB3 is smaller than the specs noted.
5	Trafficalm IQ1500 Permanent Mount Sign and Trailer, As Specified or Equal	2	EA	\$10,517.00	\$21,034.00		RST-1000 Silent Advisor

Introduced on: August 6, 2025

Adopted on: August 14, 2025
 Official Resolution#: 2025001101
 Bid - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS

[NATIONAL HIGHWAY PRODUCTS, INC] RESPONSE DOCUMENT REPORT
 Bid No. TBD
 SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS

compliance_pages.pdf

11. ADDITIONAL DOCUMENTATION

Please add any additional documentation you wish to be considered here.

NJ_NHP_Inc_SBE_Certificate_0723.pdf

12. Acknowledgement of Submission of Forms from Current Bid Package*

Bidders shall complete all documents and acknowledge all terms included with the bid package. All documents should be from this bid package as forms change frequently and the most updated forms are provided in this specification. The forms must not be dated or executed prior to the date of advertising. Failure to follow these instructions is cause for rejection.

Confirmed

13. Submission of Bid Package*

By submitting a response to this solicitation, the Vendor understands and acknowledges that all required documents to this solicitation must be submitted and that failure to do so may be cause for rejection.

Bidder also understands that only one (1) bid submission shall be considered. Please DO NOT Submit a manual bid response. Submitting a manual response in addition to the electronic response is cause for rejection of your bid.

Confirmed

PRICE TABLES

SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Comments
✓ 1	Furnish and Delivery of New Solar Powered Message Sign, American Signal Company Model #CMS-T333 LED, No Substitutions	5	EA	\$20,200.00	\$101,000.00		

Introduced on: August 6, 2025

Adopted on: August 6, 2025

Official Resolution#: 2025001101

[NATIONAL HIGHWAY PRODUCTS, INC] RESPONSE DOCUMENT REPORT
 Bid No. TBD
 SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	No Bid	Comments
2	Furnish and Delivery of New Light Tower, Wacker Neuson Model #LTW20Z1, As Specified, or Equal	5	EA	\$32,475.00	\$162,375.00		Allmand Maxi-Lite
3	Furnish and Delivery of SolarTech Silent Messenger II Message Board Mid-Sized, Model MB II, As Specified, or Equal	2	EA	\$17,790.00	\$35,580.00		
✓ 4	Furnish and Delivery of SolarTech Silent Messenger Full Size Message Board, Model MB III, As Specified, or Equal	2	EA	\$19,945.00	\$39,890.00		
✓ 5	Trafficalm IQ1500 Permanent Mount Sign and Trailer, As Specified or Equal	2	EA	\$10,295.00	\$20,590.00		

Introduced on: August 6, 2025

Adopted on: August 6, 2025
 Official Resolution#: 2025001101

COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS Page 1 of 11

ITEM # 1 – PORTABLE CHANGEABLE FULL MATRIX MESSAGE SIGN, AMERICAN SIGNAL COMPANY # CMS-T333 LED, AS SPECIFIED, NO SUBSTITUTIONS

		<u>COMPLIANCE</u>	
		<u>YES</u>	<u>NO</u>
<u>GENERAL</u>			
Full Matrix 28 pixels x 50 pixels		<input checked="" type="checkbox"/>	<input type="checkbox"/>
1 line, 2 line, 3 line messages		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Graphics and Animation		<input checked="" type="checkbox"/>	<input type="checkbox"/>
18" - 53" characters		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Up to 12 characters per line		<input checked="" type="checkbox"/>	<input type="checkbox"/>
9 font sizes		<input checked="" type="checkbox"/>	<input type="checkbox"/>
SOLR™ Primary Power Charging System with 30 day nominal battery life and onboard AC charger		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Height (Raised)	162"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Height (Storage)	109.3"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Length	188.3"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Width (Storage)	79.5"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LED Operating Temp	-22° - +165° F	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electronics Temp. Rating	-30° - +165° F	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sign Case Height	79.5"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sign Case Width	137"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Control Console Display	Backlit LCD	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pre-Programmed Messages	199	<input checked="" type="checkbox"/>	<input type="checkbox"/>
User-defined Messages	199	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Message Sequences	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>LED DISPLAY</u>			
Update Speed: Variable in .10 sec. increments		<input checked="" type="checkbox"/>	<input type="checkbox"/>
LED Color: ITE Amber/Yellow		<input checked="" type="checkbox"/>	<input type="checkbox"/>
18"-53" Character		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Four (4) – (30°) LEDs per pixel		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>OTHER:</u>			
Sign raise/lower with electric hydraulic lift with manual backup		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Weather tight control cabinet with backlit LCD handheld controller		<input checked="" type="checkbox"/>	<input type="checkbox"/>
The following options shall be included in the base bid price:			
2" ball or lunette eye hitch with adjustable height		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Graphic User Interface (GUI) Software		<input checked="" type="checkbox"/>	<input type="checkbox"/>
AIMSTAR™ Adjustable Solar Assembly		<input checked="" type="checkbox"/>	<input type="checkbox"/>

PLEASE ENTER INFORMATION ON THE PRODUCT YOU ARE PROPOSING:

Make/Model: Amsig CMS T-333L

Warranty: 1 year

Delivered A.R.O.: 6-8 Weeks
Introduced on: August 6, 2025
 Adopted on: August 6, 2025

Remarks: Click on the box here to enter text.

COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS Page 2 of 11

ITEM #2 – NEW LIGHT TOWER, WACKER NEUSON MODEL #LTW20Z1, AS SPECIFIED, OR EQUAL

		<u>COMPLIANCE</u>	
		<u>YES</u>	<u>NO</u>
GENERAL			
Operating Weight	3,290	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Illumination coverage at 5 fc (54 lux) ft ²	12,960	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lamp type	Metal Halide; 4 X 1,100	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mast height in feet	30 (26-27 Feet)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dimensions in transport	177" L X 75.5" W X 74.5" H	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sound level (LA) at 23 ft. in dB	71.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power kW	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Frequency Hz	60	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Voltage V	120/240	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power Factor 1~	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power Factor 3~	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Prime output kW	18.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Voltage Control %	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Idle to full load %	1.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ENGINE			
Generator insulation (class)	H	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RPM/Speed RPM	1,800	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Generator Model	Brushless w/ AVR	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Engine/Motor Type	Liquid-Cooled, 4-Cyl. Diesel	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Engine Model	Isuzu	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Displacement in cubic inches	133	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Operating HP/RPM	34.3/1,800	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Performance Rated	SAE J1349 NET (without Fan)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fuel tank capacity	57 gallons	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fuel consumption gallons/hour	1.58	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fully equipped highway-ready trailer		<input checked="" type="checkbox"/>	<input type="checkbox"/>
WARRANTY			
Two (2) Year bumper/bumper machine warranty		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) Year/2,000 hour engine warranty		<input checked="" type="checkbox"/>	<input type="checkbox"/>

PLEASE ENTER INFORMATION ON THE PRODUCT YOU ARE PROPOSING:

Make/Model: Allmand MaxiLite

Warranty: 2 year Allmand products parts only, 2 year/ 2k hour engine warranty

Delivery, A.R.O.: 4-5 Weeks

Remarks: Mast height is 26'10" raised

Introduced on: August 6, 2025
 Adopted on: August 6, 2025
 Official Resolution#: 2025001101

ITEM #3 - SOLARTECH SILENT MESSENGER II MESSAGE BOARD MID-SIZED, MODEL MB II WITH TRAILER, AS SPECIFIED OR EQUAL

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
DISPLAY PANEL		
Panel Size: 92" X 54"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pixel Array/Size: 27" X 48" pixel array with 1.77" pitch	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Character Height: 9" to 46"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Panel Construction: all aluminum, modular construction	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Panel Face: 3/16" polycarbonate, non-glare	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Characters per line: up to twelve (12)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Graphics capability: full matrix with full animation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Display Technology: LED (amber, 592 nm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Display Brightness: > 10,000 candela per square meter	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Display Life Expectancy: 10 years typical	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Viewing Angle: >30°	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TRAILER		
Length Overall (operating):112" (284 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1,000 lb. automatic brake, winch & cable	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Length Overall (towing): 112" (284 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Width Overall 92" (234 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Width Across: Fenders 75" (191 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Height Traveling: 92" (234 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ground Clearance: 13" (33 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Height Operating: 142" (360 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Weight of Panel: 1,560 lbs. (708 kg)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Coupler: 2" (50 mm) ball or 2.5" (64 mm) pintle ring	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lifting Mechanism: 1,000 lb. automatic brake, winch & cable	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Axle/Suspension: (for both) Torq flex, independent	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tires: Load Range C; 13 inch wheels with 5-lug pattern	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CONTROL CONSOLE		
Console Circuitry: Ultra-low power solid state	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Console Touchscreen: Weather-resistant, backlit, full-color GUI, intuitive icon-driven, multi-lingual	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Programming Software: Proprietary, field upgradable for units not connected to Command Center	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Message Capacity: Pre-programmed and user-defined (> 250 each)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Message Display Time: User-Selectable (0.1 to 99 seconds)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Display Update Time: Instantaneous	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Non-Volatile Memory: 16 GB Micro SD card	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Introduced on: August 6, 2025
 Adopted on: August 6, 2025
 Display Update Time: Instantaneous

COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS Page 4 of 11

ITEM #3 - SOLARTECH SILENT MESSENGER II MESSAGE BOARD MID-SIZED, MODEL MB II WITH TRAILER, AS SPECIFIED OR EQUAL

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
CONTROL CONSOLE (Cont'd)		
Password Protection: User-selectable, multi-level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Operator Interface: Easy-to-use icons (no manual required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Connectivity: Supports NTCIP version 3 via UDP/IP over Ethernet, and PMPP over RS-232	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Units with Remote Communications Option: UDP/IP over the built-in cellular modem	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ENERGY SOURCE		
Operating Voltage: 12 Volts DC (nominal)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Battery Type: 6 Volt heavy duty, deep cycle (GC-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Number of Batteries: Four (4) standard lead acid (flooded)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Battery Bank Capacity: 520 amp hours	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Battery Status Indicator: Displays battery voltage, charging activity and low battery condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Solar Array Construction: Top-mounted solar panels in aluminum frame		
Solar Array Power Output: Standard 160 watt (nominal)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Solar Charge Controller: Automatic, temperature compensated, MPPT (Maximum Power Point Tracking)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BRAKES		
Hydraulic Surge Brakes (5,000 lb. Capacity)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electric Brakes	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SOLAR ARRAY		
220 amp tilt and rotate solar panels	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BATTERY CHARGER		
55 amp battery charger	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BATTERY SECURITY		
Battery compartment with padlocks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PAINT		
Powder coated orange color	<input checked="" type="checkbox"/>	<input type="checkbox"/>

PLEASE ENTER INFORMATION ON THE PRODUCT YOU ARE PROPOSING:

Make/Model: SolarTech MBII

Warranty: 5 year

Delivered A.R.O.: 56 weeks

Remarks: Quoted with electric brake, hydraulic surge also available

Adopted on: August 6, 2025
 Original Resolution No. 202500104

COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS Page 5 of 11

ITEM #4 - SOLARTECH SILENT MESSENGER FULL SIZE MESSAGE BOARD, MODEL MB III, WITH TRAILER, AS SPECIFIED OR EQUAL

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
DISPLAY		
Panel Size: 126" x 76" (320 cm x 193 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Panel Construction: All aluminum, modular construction	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Panel Face: 3/16" polycarbonate, non-glare	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Matrix Size: 27 x 48 pixels	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pixel Pitch: 2.6" x 2.6" (66 mm x 66 mm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Number of Fonts: Twelve (12)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Character Height: 13" to 68" (33 cm to 173 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Graphics Capability: Full matrix with full animation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Display Technology: LED (amber, 592 nm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Display Brightness: > 10,000 candela per square meter	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Viewing Angle: >30°	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Display Life Expectancy: 10 years typical	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lifting Mechanism: 2,000 lb. capacity electro-hydraulic	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TRAILER		
Length Overall: 180" (457 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Width Overall: 92" (234 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Height Traveling: 103" (262 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Height Operating: 162" (412 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ground Clearance: 13" (33 cm) minimum	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Weight (minimum): 2,400 lbs. (1,089 kg)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Weight (maximum): 2,960 lbs. (1,343 kg)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Coupler (Class 111): 2" (50 mm) ball or 3" (76 mm) pintle ring	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Axle/Suspension: (both) Torq flex independent	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tires: Load Range C; 13 inch wheels with 5-lug pattern	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MEGA-TECH CONTROL CONSOLE		
Console Circuitry: Ultra-low power solid state	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Console Touchscreen Weather-resistant, backlit, full-color GUI, intuitive icon-driven, multi-lingual, field upgradable (for units not connected to Command Center)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Adopted on: August 6, 2025 Message Capacity: 250 programmed and user-defined (> 250 each)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS Page 6 of 11

ITEM #4 - SOLARTECH SILENT MESSENGER FULL SIZE MESSAGE BOARD, MODEL MB III, WITH TRAILER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
MEGA-TECH CONTROL CONSOLE (Cont'd)		
Message Display Time: User-selectable (0.1 to 99 seconds)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Display Update Time: Instantaneous	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Non-Volatile Memory 16 GB Micro SD card	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Password Protection: User-selectable, multi-level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Operator Interface: Easy-to-use icons (no manual required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Connectivity: Supports NTCIP version 3 via UDP/IP over Ethernet, and PMPP over RS-232	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Units with Remote Communications Option: UDP/IP over the built-in cellular modem.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
 ENERGY SOURCE		
Operating Voltage: 12 Volts DC (nominal)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Battery Type: 6 Volt heavy duty, deep cycle (GC-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Number of Batteries Four (4) standard lead acid (flooded)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Battery Bank Capacity: 520 amp hours	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Battery Status Indicator: Displays battery voltage, charging activity low battery condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Solar Array Construction: Top-mounted solar panels in aluminum frame	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Solar Array Power Output: Standard 160 watt (nominal)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Solar Charge Controller: Automatic, temperature compensated (Maximum Power Point Tracking)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
 BRAKES		
Hydraulic Surge Brakes (5,000 lb. Capacity)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electric Brakes	<input checked="" type="checkbox"/>	<input type="checkbox"/>
 SOLAR ARRAY		
220 amp tilt and rotate solar panels	<input checked="" type="checkbox"/>	<input type="checkbox"/>
 BATTERY CHARGER		
55 amp battery charger	<input checked="" type="checkbox"/>	<input type="checkbox"/>
 BATTERY SECURITY		
Battery compartment with 2 padlocks	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Introduced on: August 6, 2025
 Battery compartment with 2 padlocks
 Official Resolution#: 2025001101

COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS Page 7 of 11

ITEM #4 - SOLARTECH SILENT MESSENGER FULL SIZE MESSAGE BOARD, MODEL MB III, WITH TRAILER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

PAINT

Powder coated orange color

PLEASE ENTER INFORMATION ON THE PRODUCT YOU ARE PROPOSING:

Make/Model: SolarTech Silent Messenger MB1

Warranty: 5 year

Delivery, A.R.O.: 5-6 Weeks

Remarks: Quoted with electric brakes, hydraulic surge brakes available

COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS Page 8 of 11

ITEM #5 – TRAFFICALM IQ1500 PERMANENT MOUNT SIGN AND TRAILER, AS SPECIFIED, OR EQUAL

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
LED AND RADAR COMPONENTS		
Speed Display Height: 15" High Characters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Configuration: Full Matrix Display	<input checked="" type="checkbox"/>	<input type="checkbox"/>
"Your Speed", or equal, Legend: 6" high highway gothic font (MUTCD Compliant)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LED, ½ Cone Angel: Amber (500nm), ½ Angel, 15°, Rated 100,000 hours, 20,000 CDA/M ² , Auto Dimming Employed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Amber LED on Axis Intensity: 20,000 CDA/SQ Meter	<input checked="" type="checkbox"/>	<input type="checkbox"/>
White LED (Cool White): ½ angel 60°, rated 100,000 hrs; 2,475 CDA/M ² , Auto Dimming Employed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sign Legibility: viewable range: 1,000 feet, legible range: 750 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Speed Resolution and Range: Min 5 mph; Max 99 mph in 1 MPH steps, Range 600 feet. (Max 140 mpg available as custom order)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Radar Specification and Range: K-band (24, 15GHz) direct sensing, license free (FCC part 15 compliant); average range at 450 feet (plus 400' or minus 100' depending on vehicle size).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MATERIALS AND CONSTRUCTION		
Chassis Size/Total Weight: 30" width X 41" height X 3" depth; 36 lbs.		
Front Face Sheeting: 3M™ Diamond Grade™, or equal, high visibility prismatic, long life protective sheeting	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sign Face Color: yellow	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sign Mounting Construction: 3/16" thick aluminum brackets and 1/8" face; standard 3% tilt bracket configuration	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vandal resistant construction:		
<ul style="list-style-type: none"> • Sealed electronics box (ECS) 1/16" thick aluminum enclosure attached to a 1/8" thick mounted plate, The ECS shall be removable from the chassis as a complete unit. • ¼" high impact polycarbonate face with high contrast mask; anti-glare graffiti and sunlight resistant • Provisions for padlocking in place are provided • Powder coat white color 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electronics Enclosure Rating: Weatherproof; NEMA 3R	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS Page 9 of 11

ITEM #5 – TRAFFICALM IQ1500 PERMANENT MOUNT SIGN AND TRAILER, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
ELECTRICAL SPECIFICATIONS		
Power Requirements: 12VDC (10.5 VDC to 16VDC), 23W at max brightness with maximum message displayed, 10W at average brightness with maximum message displayed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Voltage Requirements: 9V-30VDC, 12VDC Nominal (Battery protection at 11.5 VDC and 10.8VDC; startup at 12.3VDC)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power Options:		
• Solar Kits: 150W kits		
• Battery charger kits and battery boxes shall be supplied		
Operating Temperature: Internal components: -29°F to +165°F	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Warranty: 3 year limited warranty on sign and options (excluding batteries)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SOFTWARE		
SafetyCalm™ or equal, license free	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Event Logging with Time Stamp: Event data: 60 days with a circular buffer; applied voltage (VDC); internal temperature (°F); ambient light (lux); display functional status; traffic status; shock sensor events; parameter events	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vehicle Data Logging Capacity: Speed data 90 days with circular buffer (oldest reading replaced by newest) based on 24/7 operation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Programmable Display Features:		
• Minimum speed limit, speed limit, over speed, and maximum speed to display		
• Display type: blank (stealth mode); actual speed; speed limit; flashing digits; steady digits; external beacon control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Schedules: Repeating daily: nine (9) events; repeating weekly; nine (9) events; non-repeating dated: nine (9) events (27 events in each 24 hour period, 365 days per year while powered)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Communications: Remote access through secure network	<input checked="" type="checkbox"/>	<input type="checkbox"/>
System Requirements:		
• Operating System: Compatible with Windows 10		
• Screen resolution: 1024 X 768 or better		
• Communications interfaces: Bluetooth class 1 or 2 adapters (capabilities V1.0, V1.2, V2.0, V2.1+EDC)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS Page 10 of 11

ITEM #5 – TRAFFICALM IQ1500 PERMANENT MOUNT SIGN AND TRAILER, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
TRAILER		
Weight: 353 Lbs with Solar and 150Ah batteries; Weight is with battery <i>installed</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Size: Folded and ready for travel 46" wide X 48" long (86" with tongue extended) X 38" Tall; Erected with Solar: 88" Tall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tire Size: 14"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Color: Powder Coated white	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Warranty: Assembly warranted against manufacturer defect for three (3) years; excluding batteries and tires	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Basic Features:		
• Brake Lights and turn signals are provided	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Metal fenders strong to support minimum of 250 lbs., Powder coat finish for corrosion resistance	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Tongue shall be properly sized to ensure easy towing using a 2" ball	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Controls:		
• Control panel provided to operate the connections to the solar panel and sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Safety/Security:		
• Meets DOT regulations & requirements	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Safety chains shall be provided	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Ball hitch system is stowed & secured when not towing; hitch beam collapses and locks into trailer body or shall be removable	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stabilizers:		
• Provided with two (2) drop-down stabilizers that drop to the level of grade & are secured by pins and one (1) hand-crank stabilizer.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Stow in fully retracted position secured by pins for travel	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Static Regulatory Signs: speed is 25 mph on base; placards are 1,3,0,4 which allow speeds from 05-45 mph	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ELECTRICAL SPECIFICATIONS		
Batteries:		
• Includes two (2) 75Ah batteries	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Each battery shall be individually fused	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Negative terminal of each battery shall be electrically common to the trailer chassis	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Cushioned battery mount to reduce vibration and shock	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Battery Box:		
• Housed in weatherproof chamber separate from battery compartment	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Sealed from environment with provisions for thermal transfer, moisture control and drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Introduced on: August 6, 2025
Adopted on: August 6, 2025
Official Resolution #: 202500103

COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS Page 11 of 11

ITEM #5 – TRAFFICALM IQ1500 PERMANENT MOUNT SIGN AND TRAILER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

TRAILER (Cont'd)

ELECTRICAL SPECIFICATIONS (Cont'd)

Integrated Solar Charging:

- 60 Watt Solar Panel
- Solar Panel shall be deployed to a position higher than the sign
- Solar Panel shall stow flat over the sign for optimal skyward exposure
- 20A Solar Charge Control Device (14.4 V regulation temperature compensating)

Wiring:

- Wire is properly sized; rated 194°F minimum
- All interconnecting cables and wires are routed through the frame or in conduit for protection

PLEASE ENTER INFORMATION ON THE PRODUCT YOU ARE PROPOSING:

Make/Model: TrafficCalm iQ1500 & TrafficCalm TC Mini Trailer

Warranty: 3 Years on equipment, one year on batteries

Delivery, A.R.O.: 6-8 Weeks

Remarks: Click or tap here to enter text.

COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS

ITEM #2 - NEW LIGHT TOWER, WACKER NEUSON MODEL #LTW20Z1, AS SPECIFIED, OR EQUAL

		<u>COMPLIANCE</u>	
		<u>YES</u>	<u>NO</u>
GENERAL			
Operating Weight	3,290 - 2760	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Illumination coverage at 5 fc (54 lux) ft ²	12,960 - 32,612	<input type="checkbox"/>	<input type="checkbox"/>
Lamp type	Metal Halide; 4 X 1,100 LED 4X320	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mast height in feet	30-23	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dimensions in transport	141L x 77W x 106H 177" L X 75.5" W X 74.5" H	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sound level (LA) at 23 ft. in dB	71.2 - 63	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Power kW	20 - 14	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Frequency Hz	60	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Voltage V	120/240	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power Factor 1~	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power Factor 3~	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Prime output kW	18.6 - 14KW	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Voltage Control %	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Idle to full load %	1.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ENGINE			
Generator insulation (class)	H	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RPM/Speed RPM	1,800	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Generator Model	Brushless w/ AVR	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Engine/Motor Type	Liquid-Cooled, 4-Cyl. Diesel	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Engine Model	Isuzu - Kohler	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Displacement in cubic inches	133 - 84.88	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Operating HP/RPM	34.3/1,800 25HP	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Performance Rated	SAE J1349 NET (without Fan)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fuel tank capacity	57 gallons 59 Gallons	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Fuel consumption gallons/hour	1.58 - 1.09	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Fully equipped highway-ready trailer		<input checked="" type="checkbox"/>	<input type="checkbox"/>
WARRANTY			
Two (2) Year bumper/bumper machine warranty		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) Year/2,000 hour engine warranty		<input checked="" type="checkbox"/>	<input type="checkbox"/>

PLEASE ENTER INFORMATION ON THE PRODUCT YOU ARE PROPOSING:

Make/Model: Click or tap here to enter text.

Warranty: Click or tap here to enter text.

Delivery, A.R.O.: Click or tap here to enter text.

Remarks: Click or tap here to enter text.

ITEM #3 - SOLARTECH SILENT MESSENGER II MESSAGE BOARD MID-SIZED, MODEL MB II WITH TRAILER, AS SPECIFIED OR EQUAL

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
DISPLAY PANEL		
Panel Size: 92" X 54"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pixel Array/Size: 27" X 48" pixel array with 1.77" pitch	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Character Height: 9" to 46"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Panel Construction: all aluminum, modular construction	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Panel Face: 3/16" polycarbonate, non-glare	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Characters per line: up to twelve (12)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Graphics capability: full matrix with full animation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Display Technology: LED (amber, 592 nm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Display Brightness: > 10,000 candela per square meter	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Display Life Expectancy: 10 years typical	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Viewing Angle: >30°	<input checked="" type="checkbox"/>	<input type="checkbox"/>
 TRAILER		
Length Overall (operating): 112" (284 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1,000 lb. automatic brake, winch & cable	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Length Overall (towing): 112" (284 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Width Overall 92" (234 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Width Across: Fenders 75" (191 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Height Traveling: 92" (234 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ground Clearance: 13" (33 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Height Operating: 142" (360 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Weight of Panel: 1,560 lbs. (708 kg)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Coupler: 2" (50 mm) ball or 2.5" (64 mm) pintle ring	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lifting Mechanism: 1,000 lb. automatic brake, winch & cable	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Axle/Suspension: (for both) Torq flex, independent	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tires: Load Range C; 13 inch wheels with 5-lug pattern	<input checked="" type="checkbox"/>	<input type="checkbox"/>
 CONTROL CONSOLE		
Console Circuitry: Ultra-low power solid state	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Console Touchscreen: Weather-resistant, backlit, full-color GUI, intuitive icon-driven, multi-lingual	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Programming Software: Proprietary, field upgradable for units not connected to Command Center	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Message Capacity: Pre-programmed and user-defined (> 250 each)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Message Display Time: User-selectable (0.1 to 99 seconds)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Display Update Time: Instantaneous	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Non-Volatile Memory: 16 GB Micro SD card	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Introduced on: August 6, 2025
 Approved on: August 6, 2025
 Official Resolution #: 2025001161

COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS

ITEM #3 - SOLARTECH SILENT MESSENGER II MESSAGE BOARD MID-SIZED, MODEL MB II WITH TRAILER, AS SPECIFIED OR EQUAL

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
CONTROL CONSOLE (Cont'd)		
Password Protection: User-selectable, multi-level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Operator Interface: Easy-to-use icons (no manual required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Connectivity: Supports NTCIP version 3 via UDP/IP over Ethernet, and PMPP over RS-232	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Units with Remote Communications Option: UDP/IP over the built-in cellular modem	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ENERGY SOURCE		
Operating Voltage: 12 Volts DC (nominal)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Battery Type: 6 Volt heavy duty, deep cycle (GC-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Number of Batteries: Four (4) standard lead acid (flooded)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Battery Bank Capacity: 520 amp hours	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Battery Status Indicator: Displays battery voltage, charging activity and low battery condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Solar Array Construction: Top-mounted solar panels in aluminum frame	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Solar Array Power Output: Standard 160 watt (nominal)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Solar Charge Controller: Automatic, temperature compensated, MPPT (Maximum Power Point Tracking)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BRAKES		
Hydraulic Surge Brakes (5,000 lb. Capacity)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electric Brakes	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SOLAR ARRAY		
220 amp tilt and rotate solar panels	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BATTERY CHARGER		
55 amp battery charger	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BATTERY SECURITY		
Battery compartment with padlocks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PAINT		
Powder coated orange color	<input checked="" type="checkbox"/>	<input type="checkbox"/>

PLEASE ENTER INFORMATION ON THE PRODUCT YOU ARE PROPOSING:

Make/Model: Silent Messenger II (MB2-1548)

Warranty: 5 Year Limited Warranty available at www.solartechtechnology.com

Delivery, A.R.O.: 3 Business Weeks

Remarks: Brake options are conflicting, you may have either hydraulic surge or electric, not both. Options will be quoted. Additionally, tilt-n-rotate solar array is only available on Lift and Rotate Trailer

Introduced on: August 6, 2025
Adopted on: August 6, 2025
Options will be quoted. #107

ITEM #4 - SOLARTECH SILENT MESSENGER FULL SIZE MESSAGE BOARD, MODEL MB III, WITH TRAILER, AS SPECIFIED OR EQUAL

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
DISPLAY		
Panel Size: 126" x 76" (320 cm x 193 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Panel Construction: All aluminum, modular construction	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Panel Face: 3/16" polycarbonate, non-glare	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Matrix Size: 27 x 48 pixels	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pixel Pitch: 2.6" x 2.6" (66 mm x 66 mm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Number of Fonts: Twelve (12)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Character Height: 13" to 68" (33 cm to 173 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Graphics Capability: Full matrix with full animation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Display Technology: LED (amber, 592 nm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Display Brightness: > 10,000 candela per square meter	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Viewing Angle: >30°	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Display Life Expectancy: 10 years typical	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lifting Mechanism: 2,000 lb. capacity electro-hydraulic	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TRAILER		
Length Overall: 180" (457 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Width Overall: 92" (234 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Height Traveling: 103" (262 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Height Operating: 162" (412 cm)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ground Clearance: 13" (33 cm) minimum	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Weight (minimum): 2,400 lbs. (1,089 kg)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Weight (maximum): 2,960 lbs. (1,343 kg)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Coupler (Class 111): 2" (50 mm) ball or 3" (76 mm) pintle ring	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Axle/Suspension: (both) Torq flex independent	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tires: Load Range C; 13 inch wheels with 5-lug pattern	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MEGA-TECH CONTROL CONSOLE		
Console Circuitry: Ultra-low power solid state	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Console Touchscreen Weather-resistant, backlit, full-color GUI, intuitive icon-driven, multi-lingual, field upgradable (for units not connected to Command Center)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Message Capacity: Pre-programmed and user-defined (> 250 each)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Introduced on: August 6, 2025

Approved on: August 6, 2025

Official Resolution#: 2025001101

ITEM #4 - SOLARTECH SILENT MESSENGER FULL SIZE MESSAGE BOARD, MODEL MB III, WITH TRAILER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
MEGA-TECH CONTROL CONSOLE (Cont'd)		
Message Display Time: User-selectable (0.1 to 99 seconds)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Display Update Time: Instantaneous	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Non-Volatile Memory 16 GB Micro SD card	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Password Protection: User-selectable, multi-level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Operator Interface: Easy-to-use icons (no manual required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Connectivity: Supports NTCIP version 3 via UDP/IP over Ethernet, and PMPP over RS-232	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Units with Remote Communications Option: UDP/IP over the built-in cellular modem.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ENERGY SOURCE		
Operating Voltage: 12 Volts DC (nominal)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Battery Type: 6 Volt heavy duty, deep cycle (GC-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Number of Batteries Four (4) standard lead acid (flooded)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Battery Bank Capacity: 520 amp hours	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Battery Status Indicator: Displays battery voltage, charging activity low battery condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Solar Array Construction: Top-mounted solar panels in aluminum frame	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Solar Array Power Output: Standard 160 watt (nominal)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Solar Charge Controller: Automatic, temperature compensated (Maximum Power Point Tracking)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BRAKES		
Hydraulic Surge Brakes (5,000 lb. Capacity)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electric Brakes	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SOLAR ARRAY		
220 amp tilt and rotate solar panels	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BATTERY CHARGER		
55 amp battery charger	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BATTERY SECURITY		
Battery compartment with padlocks	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Introduced on: August 6, 2025
 Adopted on: August 6, 2025
 Official Resolution#: 2025001101

COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS Page 8 of 12

ITEM #4 - SOLARTECH SILENT MESSENGER FULL SIZE MESSAGE BOARD, MODEL MB III, WITH TRAILER, AS SPECIFIED OR EQUAL (CONT'D)

<u>COMPLIANCE</u>	
<u>YES</u>	<u>NO</u>

PAINT

Powder coated orange color

PLEASE ENTER INFORMATION ON THE PRODUCT YOU ARE PROPOSING:

Make/Model: Silent Messenger (MB-1548)

Warranty: 5 Year Limited Warranty available at www.solartechology.com

Delivery, A.R.O.: 3 Weeks

Remarks: Brake options are conflicting, you may have either hydraulic brakes OR electric brakes, they will be quoted as options. Additionally, the Model is NOT an MBIII but is a MBI or Full-Size Full-Matrix Silent Messenger based upon specifications and sizes.

COMPLIANCE PAGES - SOLAR POWERED MESSAGE SIGNS AND PORTABLE LIGHT TOWERS Page 9 of 12

ITEM #5 – TRAFFICALM IQ1500 PERMANENT MOUNT SIGN AND TRAILER, AS SPECIFIED, OR EQUAL

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
LED AND RADAR COMPONENTS		
Speed Display Height: 15" High Characters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Configuration: Full Matrix Display	<input checked="" type="checkbox"/>	<input type="checkbox"/>
"Your Speed", or equal, Legend: 6" high highway gothic font (MUTCD Compliant)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LED, ½ Cone Angel: Amber (500nm), ½ Angel, 15°, Rated 100,000 hours, 20,000 CDA/M ² , Auto Dimming Employed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Amber LED on Axis Intensity: 20,000 CDA/SQ Meter	<input checked="" type="checkbox"/>	<input type="checkbox"/>
White LED (Cool White): ½ angel 60°, rated 100,000 hrs; 2,475 CDA/M ² , Auto Dimming Employed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sign Legibility: viewable range: 1,000 feet, legible range: 750 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Speed Resolution and Range: Min 5 mph; Max 99 mph in 1 MPH steps, Range 600 feet. (Max 140 mpg available as custom order)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Radar Specification and Range: K-band (24, 15GHz) direct sensing, license free (FCC part 15 compliant); average range at 450 feet (plus 400' or minus 100' depending on vehicle size).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MATERIALS AND CONSTRUCTION		
Chassis Size/Total Weight: 30" width X 41" height X 3" depth; 36 lbs.		
Front Face Sheeting: 3M™ Diamond Grade™, or equal, high visibility prismatic, long life protective sheeting	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sign Face Color: yellow	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sign Mounting Construction: 3/16" thick aluminum brackets and 1/8" face; standard 3% tilt bracket configuration	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vandal resistant construction:		
• Sealed electronics box (ECS) 1/16" thick aluminum enclosure attached to a 1/8" thick mounted plate, The ECS shall be removable from the chassis as a complete unit.		
• ¼" high impact polycarbonate face with high contrast mask; anti-glare graffiti and sunlight resistant		
• Provisions for padlocking in place are provided		
• Powder coat white color	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Electronics Enclosure Rating: Weatherproof; NEMA 3R	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #5 – TRAFFICALM IQ1500 PERMANENT MOUNT SIGN AND TRAILER, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
ELECTRICAL SPECIFICATIONS		
Power Requirements: 12VDC (10.5 VDC to 16VDC), 23W at max brightness with maximum message displayed, 10W at average brightness with maximum message displayed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Voltage Requirements: 9V-30VDC, 12VDC Nominal (Battery protection at 11.5 VDC and 10.8VDC; startup at 12.3VDC)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power Options:		
• Solar Kits: 150W kits		
• Battery charger kits and battery boxes shall be supplied		
Operating Temperature: Internal components: -29°F to +165°F	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Warranty: 3 year limited warranty on sign and options (excluding batteries)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SOFTWARE		
SafetyCalm™ or equal, license free	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Event Logging with Time Stamp: Event data: 60 days with a circular buffer; applied voltage (VDC); internal temperature (°F); ambient light (lux); display functional status; traffic status; shock sensor events; parameter events	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vehicle Data Logging Capacity: Speed data 90 days with circular buffer (oldest reading replaced by newest) based on 24/7 operation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Programmable Display Features:		
• Minimum speed limit, speed limit, over speed, and maximum speed to display		
• Display type: blank (stealth mode); actual speed; speed limit; flashing digits; steady digits; external beacon control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Schedules: Repeating daily: nine (9) events; repeating weekly; nine (9) events; non-repeating dated: nine (9) events (27 events in each 24 hour period, 365 days per year while powered)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Communications: Remote access through secure network	<input checked="" type="checkbox"/>	<input type="checkbox"/>
System Requirements:		
• Operating System: Compatible with Windows 10		
• Screen resolution: 1024 X 768 or better		
• Communications interfaces: Bluetooth class 1 or 2 adapters (capabilities V1.0, V1.2, V2.0, V2.1+EDC)	<input type="checkbox"/>	<input checked="" type="checkbox"/>

ITEM #5 – TRAFFIC MOUNT PERMANENT MOUNT SIGN AND TRAILER, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
TRAILER		
Weight: 353 Lbs with Solar and 150Ah batteries; Weight is with battery <i>installed</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Size: Folded and ready for travel 46" wide X 48" long (86" with tongue extended) X 38" Tall; Erected with Solar: 88" Tall	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tire Size: 14"	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Color: Powder Coated white	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Warranty: Assembly warranted against manufacturer defect for three (3) years; excluding batteries and tires	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Basic Features:		
• Brake Lights and turn signals are provided	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Metal fenders strong to support minimum of 250 lbs., Powder coat finish for corrosion resistance	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Tongue shall be properly sized to ensure easy towing using a 2" ball	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Controls:		
• Control panel provided to operate the connections to the solar panel and sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Safety/Security:		
• Meets DOT regulations & requirements	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Safety chains shall be provided	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Ball hitch system is stowed & secured when not towing; hitch beam collapses and locks into trailer body or shall be removable	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stabilizers:		
• Provided with two (2) drop-down stabilizers that drop to the level of grade & are secured by pins and one (1) hand-crank stabilizer.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Stow in fully retracted position secured by pins for travel	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Static Regulatory Signs: speed is 25 mph on base; placards are 1,3,0,4 which allow speeds from 05-45 mph	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ELECTRICAL SPECIFICATIONS		
Batteries:		
• Includes two (2) 75Ah batteries	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Each battery shall be individually fused	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Negative terminal of each battery shall be electrically common to the trailer chassis	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Cushioned battery mount to reduce vibration and shock	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Battery Box:		
• Housed in weatherproof chamber separate from battery compartment	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Sealed from air movement with provisions for thermal transfer, moisture control and drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #5 – TRAFFICALM IQ1500 PERMANENT MOUNT SIGN AND TRAILER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

TRAILER (Cont'd)

ELECTRICAL SPECIFICATIONS (Cont'd)

Integrated Solar Charging:

- 60 Watt Solar Panel
- Solar Panel shall be deployed to a position higher than the sign
- Solar Panel shall stow flat over the sign for optimal skyward exposure
- 20A Solar Charge Control Device (14.4 V regulation temperature compensating)

Wiring:

- Wire is properly sized; rated 194°F minimum
- All interconnecting cables and wires are routed through the frame or in conduit for protection

PLEASE ENTER INFORMATION ON THE PRODUCT YOU ARE PROPOSING:

Make/Model: Equivalent Product – Silent Advisor RST-1000

Warranty: 5 Year Limited Warranty available at www.solartechnology.com

Delivery, A.R.O.: 4 Weeks

Remarks: Equivalent Radar Operation, reports management, and remote control/software usage.

Literature page provided. Product is 100% MUTCD and local regulation compliant as a radar speed feedback trailer system.