



CENTRALBIDDING
FROM CENTRAL AUCTION HOUSE

**5000118655 SOLAR POWERED SIGN FOR THE JEFFERSON PARISH
DEPARTMENT OF TRAFFIC ENGINEERING**
Jefferson Parish Government

Project documents obtained from www.CentralBidding.com
10-Jan-2017 05:32:49 PM



JEFFERSON PARISH

Department of Purchasing

Michael S. Yenni
Parish President

Brenda J. Campos
Director

CHANGES TO JEFFERSON PARISH BIDDING PROCEDURES

The East bank Office of Purchasing is now open! We are located in the Joseph S. Yenni Building, 1221 Elmwood Park Blvd., Suite 404, Jefferson, LA 70123. Bidders may submit bid responses at this location, pending authorization in each bid package. **Bidders should carefully read and must respond accordingly per the requirements of the bid packages. NOTE: Bidders submitting bids on the day of bid opening, bidders must submit at the West Bank location only.**

Other Changes Continued:

- ✱ Effective June 1st, bidders may no longer send bid responses via facsimile, as some bid solicitations may provide. Vendors responding to bid solicitations may only submit via USPS, courier service, hand delivery or via online by registering free of charge at www.jeffparishbids.net. For more information, please contact the Purchasing Department or visit jeffparish.net.
- Affidavits (Non-Public Works Affidavit or Public Works Affidavit) – as you are aware, bidders are required to submit affidavits pursuant to LA public bid law and Jefferson Parish Code of Ordinances. Bidders must read each bid package to ensure compliance. Effective August 1st, ***affidavits are required with bid submission***. While copies are acceptable to include with bid submission, original affidavits are required upon contract execution. Original affidavits are encouraged with bid submission.
- Current W9 Forms and vendor applications may be submitted at any time; however, if your company is not registered and/or a current W-9 form is not on file, a current W-9 form must be supplied upon contract execution, should you be awarded a contract and/or issued a purchase order.
- Upon contract execution, successful bidder must continue producing final insurance certificates per standard Jefferson Parish insurance requirements. Proof of insurance is required for bidding purposes. Bidders must read the insurance requirements attachment included in each bid package for specific instructions.

Bidders should reference the “Additional Requirements” section of the bid instructions and/or the “Important Notice to Bidders” included in the bid package for specific requirements to respond accordingly.

For more information, please call Jefferson Parish Purchasing at 504-364-2678.

General Government Bldg. – 200 Derbigny St – Suite 4400 - Gretna, LA 70053

Office 504.364.2678 – Fax 504.364.2693

Email: Purchasing@jeffparish.net Website: www.jeffparish.net

DATE: 1/10/2017

INVITATION TO BID
THIS IS NOT AN ORDER

Page: 1

BID NO.: 50-00118655

JEFFERSON PARISH
PURCHASING DEPARTMENT
P.O. BOX 9
GRETN, LA. 70054-0009
504-364-2678

VENDOR: _____

BUYER: SFOLSE

Bids will be received until 11:00 AM, 1/18/2017 via fax: 504-364-2693 or via online at www.jeffparish.net

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. By submitting a bid, vendor agrees to comply with all provisions of Louisiana Law, as well be in compliance with the Jefferson Parish Code of Ordinances, Louisiana Code of Ethics, applicable Jefferson Parish ethical standards and Jefferson Parish Resolution No. 113646 and/or Resolution No. 113647. A copy of these resolutions may be obtained from the Office of the Parish Clerk, Suite 6700, Jefferson Parish General Government Building, 200 Derbigny Street, Gretna, LA 70053. You may also obtain a copy by visiting the Purchasing Department webpage at purchasing.jeffparish.net and clicking on On-line forms.

All vendors submitting bids should register as a Jefferson Parish vendor if not already yet registered. Registration forms may be downloaded from <http://purchasing.jeffparish.net> and by clicking on Vendor Information. Current W-9 forms with respective Tax Identification numbers and vendor applications may be submitted at any time; however, if your company is not registered and/or a current W-9 form is not on file, vendor registration is mandatory. Further, a current W-9 form and respective Tax Identification number must be supplied upon contract execution, should you be awarded a contract and/or issued purchase order. Failure to do so may result in delay of payment.

As per LSA-RS 47:301 et seq., all governmental bodies are excluded from payment of sales taxes to any Louisiana taxing body. Quotations shall be based on F.O.B. Delivered, anywhere within the Parish as designated by the Purchasing Department. JEFFERSON PARISH WILL ACCEPT ONE BID ONLY FROM EACH VENDOR. Items bid must meet specifications. JEFFERSON PARISH will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid rejection. Bidders are required to complete, sign and return the bid form and/or complete and return the associated line item pricing forms as indicated. The price quoted for work shall be stated in figures. In the event there is a difference in unit prices and totals, the unit prices shall prevail.

JEFFERSON PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of JEFFERSON PARISH. Every contract or order shall be awarded to the LOWEST RESPONSIVE and RESPONSIBLE BIDDER, taking into consideration the CONFORMITY WITH THE SPECIFICATIONS and the DELIVERY AND/OR COMPLETION DATE

JEFFERSON PARISH reserves the right to cancel all or any part of an order if not shipped promptly. No charges will be allowed for parking or cartage unless specified in the quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel at any time and for any reason by issuing a THIRTY (30) day written notice to the contractor.

JEFFERSON PARISH requires all products to be new (current) and all work must be performed according to standard practices for the project. Unless otherwise specified, no aftermarket parts will be accepted. Unless otherwise specified, all workmanship and materials must have at least one (1) year guaranty, in writing, from the date of delivery and/or acceptance of the project. Any deviations or alterations from the specifications must be indicated and/or supporting documentation supplied with bid submission.

If this bid requires a pre-bid conference (see Additional Requirements section), bidders are advised that such conference will be held to allow bidders the opportunity to identify any discrepancies in the bid specifications and seek further clarification regarding instructions. The Purchasing Department will issue a written response to bidders' questions in the form of an Addendum.

All formal Addenda require written acknowledgment on the bid form by the bidder. Failure to acknowledge an Addendum on the bid form shall cause the bid to be rejected; JEFFERSON PARISH reserves the right to award bid to next lowest responsive and responsible bidder in this event.

USE OF BRAND NAMES AND STOCK NUMBERS: Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified. Complete product data may be required prior to award.

Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975, or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1964, or Title VI and VII of the Act of April 11, 1968, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (c), (d), (e), and (k)(5) of the Regulations. New construction or renovation projects must comply with Section 504 of the 1973 Rehabilitation Act, as amended, in accordance with the American National Standard Institute's specifications (ANSI A117.1-1961).

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

IN ACCORDANCE WITH STATE REGULATIONS JEFFERSON PARISH OFFERS ELECTRONIC PROCUREMENT TO ALL VENDORS

This electronic procurement system allows vendors the convenience of reviewing and submitting bids online. This is a secure site and authorized personnel have limited read access only. Bidders are encouraged to submit electronically using this free service; while the website accepts various file types, one single PDF file containing all appropriate and required bid documents is preferred. Bidders submitting uploaded images of bid responses are solely responsible for clarity. If uploaded images/documents are not legible, then bidder's submission will be rejected. Please note all requirements contained in this bid package for electronic bid submission.

ADDITIONAL REQUIREMENTS FOR THIS BID

PLEASE MATCH THE NUMBERS PRINTED IN THIS BOX WITH THE CORRESPONDING INSTRUCTIONS BELOW.

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1. All bidders must attend the MANDATORY pre-bid conference and will be required to sign in and out as evidence of attendance. In accordance with LSA R.S. 38:2212(I), all prospective bidders shall be present at the beginning of the MANDATORY pre-bid conference and shall remain in attendance for the duration of the conference. Any prospective bidder who fails to attend the conference or remain for the duration shall be prohibited from submitting a bid for the project.
2. Attendance to this pre-bid conference is optional. However, failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. Furthermore, failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification with no additional cost to the owner.
3. Contractor must hold current applicable JEFFERSON PARISH licenses with the Department of Inspection and Code Enforcement. Contractor shall obtain any and all permits required by the JEFFERSON PARISH Department of Inspection and Code Enforcement. The contractor shall be responsible for the payment of these permits. All permits must be obtained prior to the start of the project. Contractor must also hold any and all applicable Federal and State licenses. Contractor shall be responsible for the payment of these permits and shall obtain them prior to the start of the project.
4. A LA State Contractor's License will be required in accordance with LSA R.S. 37-2150 et. seq. and such license number will be shown on the outside of the bid envelope. Failure to comply will cause the bid to be rejected. Additionally if submitting the bid electronically, then the license number must be entered in the appropriate field in the Electronic Procurement system. Failure to comply will cause the bid to be rejected.
5. It is the bidder's responsibility to visit the job site and evaluate the job before submitting a bid.
6. Job site must be clean and free of all litter and debris daily and upon completion of the contract. Passageways must be kept clean and free of material, equipment, and debris at all times. Flammable material must be removed from the job site daily because storage will not be permitted on the premises. Precautions must be exercised at all times to safeguard the welfare of JEFFERSON PARISH and the general public.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

7. **PUBLIC WORKS BIDS:** All awards for public works in excess of \$5,000.00 will be reduced to a formal contract which shall be recorded at the contractor's expense with the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. A price list of recordation costs may be obtained from the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 will require both a performance and a payment bond. Unless otherwise stated in the bid specifications, the performance bond requirements shall be 100% of the contract price. Unless otherwise state in the bid specifications, the payment bond requirements shall be 100% of the contract price. Both bonds shall be supplied at the signing of the contract.
8. **NON-PUBLIC WORKS BIDS:** A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The performance bond shall be supplied at the signing of the contract.
9. **NON-PUBLIC WORKS BIDS:** A payment bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The payment bond shall be supplied at the signing of the contract.
10. Unless otherwise stated in the bid specifications, the successful bidder will be required to procure standard insurance policies evidencing Parish-mandated insurance requirements as indicated on the attached "insurance requirements" sheet. All bidders must comply with the instructions in this sheet. Failure to comply will cause bid to be rejected.
11. A bid bond will be required with bid submission in the amount of 5% of the total bid, unless otherwise stated in the bid specifications. Acceptable forms shall be limited to cashier's check, certified check, or surety bid bond. All sureties must be in original format (no copies). If submitting a bid online, vendors must submit an electronic bid bond through the respective online clearinghouse bond management system(s) as indicated in the electronic bid solicitation on Central Auction House. No scanned paper copies of any bid bond will be accepted as part of the electronic bid submission.
12. This is a requirements contract to be provided on an as needed basis. JEFFERSON PARISH makes no representations on warranties with regard to minimum guaranteed quantities unless otherwise stated in the bid specifications.
13. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be rejected if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.
14. **PUBLIC WORKS BIDS - Completed, Signed and Properly Notarized Affidavits Required;** This applies to all solicitations for construction, alteration or demolition of public buildings or projects, in conformity with the provisions contained in LSA-RS 38:2212.9, LSA-RS 38:2212.10, LSA-RS 38:2224, and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Conviction Affidavit, Non-Collusion Affidavit, Campaign Contribution Affidavit, Debt Disclosures Affidavit and E-Verify Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
15. **NON PUBLIC WORK BIDS - Completed, Signed and Properly Notarized Affidavits Required** in conformity with the provisions contained in LSA – RS 38:2224 and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Collusion Affidavit, Debt Disclosures Affidavit and Campaign Contribution Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled NON PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
16. The ensuing contract for this bid solicitation may be eligible for FEMA reimbursement and/or Federal funding/reimbursement. As such, the referenced appendix will be applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and submitted with bid submission. Failure to submit applicable certifications with bid submission will result in bid rejection.

It shall be the duty of every parish officer, employee, department, agency, special district, board, and commission: and the duty of every contractor, subcontractor, and licensee of the parish, and the duty of every applicant for certification of eligibility for a parish contract or program, to cooperate with the Inspector General in any investigation, audit, inspection, performance review, or hearing pursuant to Jefferson Parish Code of Ordinances Section 2-155.10(19). By submitting a bid, vendor acknowledges this and will abide by all provisions of the referenced Jefferson Parish Code of Ordinances.

DATE: 1/10/2017

INVITATION TO BID
THIS IS NOT AN ORDER

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BID NO.: 50-00118655

JEFFERSON PARISH
PURCHASING DEPARTMENT
P.O. BOX 9
GRETN, LA. 70054-0009
504-364-2678

VENDOR: _____

BUYER: SFOLSE

As per LSA-RS 47:301 et seq., all governmental bodies are excluded from payment of sales taxes to any Louisiana taxing body. Quotations shall be based on F.O.B. Agency warehouse or jobsite, anywhere within the Parish as designated by the Purchasing Department.

JEFFERSON PARISH reserves the right to cancel all or any part of an order if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel at any time and for any reason by issuing a THIRTY (30) day written notice to the contractor.

JEFFERSON PARISH is expecting all products to be new and all work is to be done in a workman-like manner, according to standard practices. Any deviations or alterations from the specifications must be indicated and backup documentation supplied with your quotation.

DELIVERY: FOB JEFFERSON PARISH

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES

30 Days ARO

INDICATE STARTING TIME (IN DAYS) FOR CONSTRUCTION WORK

INDICATE COMPLETION TIME (IN DAYS) FOR CONSTRUCTION WORK

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: _____

NUMBER: _____

NUMBER: _____

NUMBER: _____

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable) _____

***** ALL BIDDERS MUST COMPLETE SECTION BELOW *****

FIRM NAME: Signal Equipment Co. - South

SIGNATURE: 
(Must be signed here)

TITLE: Vice-President

PRINT OR TYPE NAME: John I. Vaughn

ADDRESS: 1517 Corporate Drive

CITY, STATE: Shreveport, LA

ZIP: 71107

TELEPHONE: (318) 222 7373

FAX: (318) 222 7376

EMAIL ADDRESS: jivaughn@secosouth.net

TOTAL PRICE OF ALL BID ITEMS: \$ 7876.00

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00118655

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	2.00	EA	<p>SOLAR POWERED SIGN FOR THE JEFFERSON PARISH DEPARTMENT OF TRAFFIC ENGINEERING</p> <p>0010 SPEEDCHECK DRIVER FEEDBACK SIGN SOLAR ASSEMBLY</p> <p>MUST INCLUDE ALL NECESSARY EQUIPMENT, AND INSTALLATION HARDWARE FOR 4-1/2" O.D. PEDESTAL POLE MOUNT SOLAR POWERED, RADAR ACTIVATED DRIVER FEEDBACK SIGNS</p> <p>VENDOR TO ASSEMBLE THE SIGNS</p> <p>SIGNS WILL BE MOUNTED BY JEFFERSON PARISH TRAFFIC ENGINEERING</p>	\$2902.00	\$5804.00
2	2.00	EA	<p>0020 MEDIUM DUTY FOUNDATION ANCHOR ASSEMBLY</p> <p>SCREW IN ANCHOR BASE</p> <p>SPECIFICATIONS ATTACHED</p> <p>TO BE DELIEVERED TO: JEFFERSON PARISH TRAFFIC ENGINEERING DIVISION 2100 DICKORY AVENUE HARAHAN, LA 70123</p>	\$1036.00	\$2072.00

SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

1.0 General

- 1.1** This specification consists of providing all necessary equipment, and installation hardware (for 4-1/2" O.D. pedestal pole mount) required to purchase two (2) solar powered, radar activated driver speed feedback signs.
- 1.2** The signs shall be installed by Jefferson Parish Traffic Engineering.
- 1.3** The exact location of the signs shall be determined by the Traffic Engineering Division.

2.0 Standards

- 2.1** All signs shall meet the standards for color, dimension, and layout listed in the current edition of the FHWA Manual on Uniform Traffic Control Devices.
- 2.2** The signs shall have a minimum wind load rating of 90 mph (144 km/h).
- 2.3** The signs shall be FCC approved with no operating license requirements.
- 2.4** The signs must meet the Buy America requirements set forth by the FHWA and other Federal agencies for use on federal-aid construction projects.

3.0 Compliance and Submittals

- 3.1** Included with the bid package, all bidders shall provide Jefferson Parish a Certification of Compliance from the manufacturer. The certificate shall certify that the radar speed signs, solar power system, batteries and solar controller complies with the requirements of these specifications.
- 3.2** The vendor must verify the equipment can perform the following:
 - 3.2.1** The ability to support numerous (minimum thirty five) event schedules
 - 3.2.2** Wireless programming of the signs – (onsite only)
 - 3.2.3** Programming signs speed thresholds, display on/off modes and schedules
 - 3.2.4** Ability to install and verify firmware updates

SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

3.2.5 Ability to store, download, and clear traffic speed data

3.3 Submittals shall include an equipment List, standard drawings, and standard specifications. The submittals shall also include:

3.3.1 Maintenance Manuals (2 required)

3.3.2 Operation Manuals (3 required)

3.3.3 Shop drawings showing mechanical signs support for the solar power system and the radar speed signs

3.3.4 Radar speed signs and all electrical connections (2 required)

3.3.5 Warranty documentation

3.4 The radar speed signs shall be factory tested. As part of the evaluation process, the apparent low bidder shall perform site functional testing by a qualified representative of the vendor and shall be done in the presence of a representative from the Jefferson Parish Traffic Engineering Division. The site test shall include the following:

3.4.1 Run test sequence. A full roll up of all digits indicating the display is working.

3.4.2 Approach Only Radar. The signs shall be verified for approach-only radar, by displaying approach only traffic and not displaying traffic in front of the signs that is driving away.

3.4.3 Instant on: The display shall activate within an appropriate distance to allow motorists to see and react to the signs.

3.4.4 Minimum Display Speed. The display shall begin displaying the speed once the driver speed reaches this threshold.

3.4.5 Violation Alert. The display shall optionally flash the driver's speed once the radar detects the pre-set Violation Alert speed threshold and increase flashing rate proportional to higher speed. The display shall blank out or display slow down message once the radar detects the pre-set high speed threshold.

3.4.6 Visibility. The display shall have high contrast and visibility in all lighting conditions.

SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

3.4.7 Auto Dim. Cover the auto-dim switch to verify it is operational.

4.0 Reliability

4.1 Environmental Specifications

- 4.1.1** The operating temperature range shall be -40°C to +75°C.
- 4.1.2** The signs material and enclosure shall be .09" (2.29mm) minimum thickness aluminum.
- 4.1.3** The signs mounting hardware shall be of brass and/or stainless steel.
- 4.1.4** The outer surfaces of enclosure shall be coated with white UV resistant coating to minimize solar heat absorption.
- 4.1.5** The electronic main board must have conformal coating.

4.2 Electronic Performance

- 4.2.1** Power to the LEDs shall use DC display drive to provide continuous, non-pulsating current to LEDs when speeds are displayed, to maximize LED life.
- 4.2.2** The display shall operate on 12VDC nominal (10V – 18V) and display control electronics must automatically turn the display off when the voltage is below a lower threshold to prevent over-discharge damage to the solar power system.
- 4.2.3** The charging control system shall be a solar industry standard item with temperature-compensated charging voltage and battery temperature monitoring for long battery life of 5 to 10 years.
- 4.2.4** The display control electronics shall monitor 12-volt supply to estimate the charge available and determine when the signs may be powered up for reliable operation.
- 4.2.5** The individual LEDs shall be wired such that a short failure of one LED will not result in the loss of more than 5 percent of that segment. – ensuring the digits will remain visible.

SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

4.3 Vandalism Protection

- 4.3.1** The display cabinet shall be constructed to absorb impacts from thrown objects or vandalism attempts, by allowing the display boards to deflect inwards up to 2" (50mm) without damaging internal components.
- 4.3.2** The display window shall be made of 1/4" (6.35mm) minimum thickness shatter-resistant polycarbonate.
- 4.3.3** The LEDs shall be protected so that LEDs are not impacted by the polycarbonate window upon deflection.
- 4.3.4** The vandalism-resistant designs must not add significant weight or reduce the display contrast or visibility.
- 4.3.5** The housing shall be provided with tamper proof (vandal resistant) fasteners that are compatible with existing agency tools.

5.0 Serviceability

- 5.1** Manufacturer's name, date of manufacture, model number, serial number, voltage requirement, and FCC approval number will be labeled on the back of the signs.
- 5.2** For field support, programmability, data downloads and diagnostics must be accessible via Bluetooth™ wireless link to a Windows-compatible notebook computer, and shall have the following display diagnostics:
 - 5.2.1** Test the real-time connection to the signs
 - 5.2.2** Run a test sequence that initiates a display digit roll-up test to verify the signs are operating properly.
 - 5.2.3** System voltage check, to validate the DC power source
 - 5.2.4** Validate real-time vehicle count to determine if data is being collected and radar is operational
 - 5.2.5** Ability to verify and update to new firmware version
- 5.3** Display alignment must be easily adjusted, without exchanging internal parts, to work on the center median, left, or right side of the roadway.

SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

- 5.4 Internal components shall be easily accessible with removal of four or fewer external vandal-resistant fasteners.
- 5.5 The display shall be comprised of modular components that can be exchanged easily in the field without removal of the signs from the mounting post.
- 5.6 The following components shall be field replaceable: Radar unit, Controller board, Fuse block(s) and fuse(s), communication options such as modems or adapters, LED Display boards, optional "TimeKeeper" GPS unit, AC power supply

6.0 Dimensions, Weight and Color

- 6.1 Sign sizes shall adhere to the current edition of the MUTCD requirements of 6" size increments (sect. 2A.11-06) and shall be minimum 30" (76.2cm) wide by minimum 42" (106.7cm) high with minimum 15" (38.1cm) display digits.
- 6.2 The signs shall weigh no more than 60 lbs.
- 6.3 The sign letters, "YOUR SPEED" shall be printed in two lines using approximately 6" high letters. The signs background surface shall be white high intensity sheeting or equivalent.
- 6.4 The display housing shall be minimum 26.5" wide by minimum 20" high by minimum 6" deep (67x51x15CM).
- 6.5 An optional "SLOW DOWN" message shall be LED characters approximately 6" high, formed with amber or red LEDs.

7.0 Electronic Specification

- 7.1 The RADAR device shall meet specifications for an FCC part 15 Low Power Device - 24.150 GHz (K-band) and shall not require an operating license.
 - 7.1.2 The radar shall have a reporting accuracy of ± 1 MPH and shall be set to detect approaching vehicles only

7.2 Solar Power

- 7.2.1 Solar powered signs shall be capable of ten (10) days of fully autonomous operation assuming use based on AADT of approximately 17,000 vpd.

SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

7.2.2 Solar system shall be designed to take into account the following factors:

7.2.2.1 Minimum solar radiation available in the geographic region

7.2.2.2 Total power draw for all devices connected to the signs as ordered

7.2.2.3 Local site conditions reviewed and calculated

7.2.3 Sign displays at maximum brightness shall consume less than 6.5 watts maximum of DC power.

7.2.4 Display Signs shall consume less than 1.75 watts in stealth mode (collecting data but no display)

7.2.5 Display shall consume less than 0.95 watts in standby

7.3 Solar Controller

7.3.1 The solar controller and panel system shall include: temperature compensation, constant voltage, allowing up to 100 percent capacity, reverse leakage current protection, ambient temperatures from - 40°C to at least +50°C, anodized casing or equivalent, and charging indicator.

7.3.2 The solar controller shall have short circuit, over current, high temperature, and over voltage protection.

7.3.3 The controller shall be capable of constant voltage low-frequency PWM battery charging.

7.3.4 The controller shall meet all requirements of Underwriters Laboratories UL 1741.

7.3.5 The solar controller shall be connected to the solar panels and batteries inside a weather proof (NEMA 3R or better) enclosure in natural aluminum or light color paint to reflect sunlight for increased battery life.

SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

7.4 Gel Cell Batteries

7.4.1 The gel cell battery shall include a 55AH or greater, 12 VDC, deep cycle; solar rated, sealed valve regulated, gelled electrolyte lead acid battery, and rated as non-spillable.

7.4.2 Gel cells battery shall be located inside the NEMA 3R (or better) enclosure.

7.5 Solar Array Panel

7.5.1 Single solar panel with appropriate wattage for the application shall be supplied, as industry-standard 12 V dc designs with tempered glass cover. Adding signs options may increase the number or size of solar panels on an individual basis.

7.5.2 Frames shall be anodized or equivalent, and rain tight, with industry standard cable fittings.

7.5.3 The power output shall be designed for at least 15 years of usable output and shall be free from defects in materials and workmanship for three years.

7.6 Solar Array Panel Mounts

7.6.1 Mounts may be fixed-angle and shall be manufactured from corrosion resistant aluminum with all stainless steel fastening hardware.

7.6.2 Mounts, if adjustable, shall include similar materials for adjustable leg parts for the solar array pitch angle adjustment.

7.7 Display Functionality

7.7.1 Display shall be capable of displaying numbers from 1 to 99 with optional display in miles or kilometers per hour if requested.

7.7.2 Display shall be capable of displaying the numeric readout value within one second of detection of a vehicle, and shall hold the detected speed for approximately one second after the vehicle passes outside the detection area and then return to standby mode with a blank display when no vehicles are present.

SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

7.7.3 Display must maximize viewing contrast by effectively managing stray light from outside sources.

7.7.4 The signs shall be designed to reduce driver distractions introduced by the radar speed display. The display view to the forward viewing angle shall be limited to approximately 30° from the roadside in order to discourage the drivers from watching the display as they pass the signs to keep the driver's eyes on the road ahead.

7.7.5 The signs shall have the option of adding an integrated external strobe which shall be powered and triggered from the display's controller, at a speed threshold from 5 to 99 MPH independent of any other speed-driven option.

7.8 Display Visibility

7.8.1 The permanently affixed words "YOUR SPEED" printed on two lines and the detected vehicle's speed displayed with two-LED digits shall be clearly visible to a person with normal vision at a minimum distance of 400 feet.

7.8.2 The display design shall have very high contrast between LEDs and their immediate background. Display window shall have clear LED windows and a black surround matrix, to maximize viewing contrast in all lighting conditions, direct sunlight, fog and the LEDs will automatically dim during nighttime operation.

7.8.3 The maximum brightness shall be selectable to allow for special local lighting conditions.

7.8.4 The display must not use anti-glare sheeting that would reduce the display's visibility and contrast.

7.8.5 The display must not have visible ghosting characters when a mix of on and off segments is displayed.

7.8.6 The display shall be of modified seven-segment designs for maximum digit recognition and shall not be a full matrix or a 13 segment designs.

7.8.7 Each display segment shall consist of 16 discrete LEDs of approximately 15° to 17° viewing angle. LEDs shall be individually aimed to within +/- 2° of each other to concentrate light distribution

SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

within the drivers viewing area and to provide consistent cut-off of the display at the edge of the viewing cone.

7.8.8 LEDs shall be AlInGaP II technology or equivalent; rated for 100,000 hours or more continuous operation. Amber LEDs shall have a wavelength from 590 to 595nm and the light intensity of each LED shall be a minimum of 5,000 mcd at normal current setting, with a typical output of 10,000 mcd, within 15 degrees of the optical center axis.

8.0 Traffic Data Collection and Reporting (OPTIONAL)

8.1 Optional: All displays shall have the capability of an add-on data collection and reporting option, with the following specification:

8.1.1 Separate data points for each target shall be stored, which shall include but not be limited to final speed and the date and time for each detected target.

8.1.2 The data shall not be averaged, consolidated or binned as the individual data points are then lost.

8.1.3 Capacity for storing over 200,000 individual target data points.

8.1.4 Capability of capturing vehicle speed data with the display off (stealth mode) to support "before and after" studies.

8.2 Data shall be formatted as a .csv file providing access to the raw data and the ability to import into other traffic analysis tools.

8.3 Reporting software.

Reporting software must be compatible with existing communication software (Display Manager TM) currently in use.

Reporting software shall be easy to use and charts easy to modify. Automatic reports will be provided with graphical analysis of the following data using a personal computer running Microsoft ExcelTM. Reporting, and graphing must run locally on a desktop PC without requiring the internet. The reports shall contain the following information:

8.3.1 A reference posted speed limit.

8.3.2 Average vehicle speeds, 85th percentile vehicle speeds and three additional percentile speeds defined by the user

SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

8.3.3 Total number of vehicles and Percent of conforming vehicles

8.3.4 Moving averages of vehicle speeds with the ability for the user to adjust the number of data points used in calculating the moving average.

8.3.5 Must have the ability to select a range of dates and times that is less than the total time period for which data is collected. (data windowing) and automatically generate reports with the subset of data.

8.4 Windowing Software.

A software utility shall be provided to further window the raw data:

8.4.1 to include/exclude certain hours of the day (school hours), weekdays or weekends

8.4.2 to remove statistical outliers, and optionally remove data points above or below a certain speed and

8.4.3 to create a new .csv file for this data that can be used with the reporting software

9.0 Wireless Notebook communication and programming (onsite)

9.1 Signs shall be programmable in the field; using a PC Notebook with a wireless Bluetooth™ connection, up to 50 feet in front of the signs. The programming interface must be easy to use, with minimal training required. The following functions shall be field programmable:

9.2 The Signs must have the ability to install new software updates and features as needed

9.3 Display Speed Thresholds

9.3.1 Display shall have the capability of programming the minimum displayed speed.

9.3.2 The display shall have a feature where the display digits flash while displaying a speed which is in excess of a pre-set limit to assist in getting the attention of the speeding driver.

9.3.3 The display shall have an optional "Slow Down" message which can be displayed at a preset speed threshold that is separate from the

SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK SIGNS

programmed speed threshold. The display must switch between the driver's speed and Slow Down until the High Speed Blanking threshold is met or until the driver's speed is lower than the message threshold.

9.3.4 The display shall have the option of setting a high-speed threshold for blanking out the display when a driver's speed reaches this limit to discourage drivers from racing the signs.

Optional: If the slow down message is enabled the display shall be set to show the slow down message instead of a blank display.

10.0 Warranty

10.1 The manufacturer's warranty for the display and accessories shall be at least three years from the time of purchase.

10.2 The manufacturer's warranty on the LEDs comprising the display segments shall be at least 10 years from the time of purchase.

10.3 The manufacturer at no charge shall provide replacement components for in-warranty repairs when provided in exchange for the part being replaced. Outbound shipping costs for warranty replacement parts shall be paid by the manufacturer.

10.4 Manufacturer will supply technical telephone support at no extra charge during the warranty period.

10.5 All control software and/or firmware updates will be available to the end user at no charge during the warranty period.

11.0 Foundation Anchors

11.1 Each sign will require one (1) Medium Duty Foundation Anchor Assembly for a total of two (2). (PELCO Part No. PB-5372-GLV or approved equal).

11.2 Each anchor assembly shall be Schedule 40 with ten inch to fifteen inch (10" - 15") bolt circle, four (4) one inch (1") – 8NC Grade 5 galvanized bolts.

11.3 The foundation anchors shall feature a top plate which enables the bolt head to be inserted after the anchor is in place.

11.4 The foundation anchor shaft shall include a two and three-eighths inch by twelve inch (2-3/8" x 12") hand hole for cable access.

SPECIFICATIONS FOR A SOLAR POWERED, 4-1/2" O.D. PEDESTAL
POLE-MOUNT RADAR-ACTIVATED DRIVER-SPEED FEEDBACK
SIGNS

11.5 The foundation anchors shall be hot dip galvanized per ASTM A123.



P.O. Box 78172
Shreveport, LA

**YOUR SIGNATURE IS REQUIRED TO
PROCEED WITH YOUR ORDER.
EMAIL TO: jivaughn@secosouth.net
and cc: dbm@secosouth.net**

ESTIMATE

Date	Estimate #
1/13/17	Q17-8862
Price Firm	2/12/17

Name / Address

Jefferson Parish
Traffic Engineering
2100 Dickory Ave.
Harahan, LA 70123

Ship To

Jefferson Parish
Traffic Engineering
2100 Dickory Ave.
Harahan, LA 70123

Project		Terms	Rep	Freight Terms		Availability
		Net 30	JIV	Allowed		
Item	Description	Qty	Rate	U/M	Total	
SA-RASP-3642	Solar Powered Radar Speed Sign, Radar Measured Speed/18" Display, Mounted on 36x42 "Your Speed" Sign, 12' Pole, One Battery Cabinet, 50 Watt Solar Panel, 55 Amp Hr Battery, Square Base, Sign Bracket, Cabinet brackets, Complete unit. (Concrete Base Required by others)	2	2,902.00	ea	5,804.00	

1. Quotation prices are valid for 30 days from the above date unless otherwise indicated.
2. Applicable taxes are estimated.
3. Prices quoted are based on availability of materials.
4. Delays in ordering may alter your quoted prices.
5. Manufacturer's warranties will apply.
6. SECO-South, Inc. will not be liable for any damages or costs incurred by contractor/customer due to material delivery date not being met because of circumstances beyond SECO-South, Inc.'s control.
7. SECO-South, Inc. assumes no responsibility for additions/omissions of material or misinterpretation of plans and specs.
8. This Quotation is an estimate only and it is the responsibility of the contractor/customer to verify that the materials and quantities set forth are accurate and comply with the plans and specs upon which this quotation is based.
9. Estimates are PP & Add Freight, unless otherwise noted.

Subtotal	\$5,804.00
Sales Tax (0.0%)	\$0.00
Total	\$5,804.00



Product Specification

SpeedAlert 18 Radar Message Sign



SpeedAlert 18

- Turnkey system. Remote sign connection functional upon ship. Unit connects to SmartApps system immediately when sign powered
- Fully hosted web-based management system
 - Internet connected computer with browser provides anywhere access.
 - No IT involvement or support necessary. System bypasses customer network eliminating access issues
 - Cellular provided by ATS, no separate cellular charges.
 - Hosted database requires no setup or maintenance by customer
- Apps – All apps included in Traffic Suite:
 - Equipment Management: Change messages and settings remotely, monitor sign online
 - Reporting: Online data retrieval and management, analysis and report generation
 - Image Management: Online image retrieval and management of images from internal camera
 - Alerts: Notifications for low battery and tampering, high speed and congestion, alerts can include images
 - Mapping: Visually manage equipment and data
 - Premier Care: Enhanced warranty and real-time monitoring

SpeedAlert Messages

- SA18: 1-2 line messages
 - 1 line: 10 1/4" H x 5.75" W characters, 4 per line
 - 2 lines: 7" H x 4" W characters, 6 per line
- Up to 3 screens per message
- Full graphics capability, each LED individually controllable
- Variable display time, flash and reverse rates for each screen
- Scroll through 25 user defined onboard messages using selector buttons built into sign, no training necessary
- Ability to sequence messages for up to 72 screen animation
- Message power efficiency calculator in software
- Unlimited message storage on PC, ATS Mobile or SmartApps
- Messages on sign do not get erased when power removed
- Sign returns to last message when power applied
- Actual sign preview in ATS Mobile and SmartApps
- Collect traffic data in all operational modes

SpeedAlert Programming

- Configure the following parameters via ATS Mobile, PC or SmartApps Web-Based Management System:
 - Messages

SpeedAlert Radar Message Sign

- SpeedAlert 18 (SA18): 18" x 28" full matrix
~~(SpeedAlert 24 (SA24) 24" x 60" full matrix also available~~
See separate SpeedAlert 24 Spec Sheet)
- Size and Weight without battery
 - 30" x 20 x 2.74" (without Your Speed sign), 29 lbs
- Full matrix display
- Universal mounting system: attach to pole, trailer or vehicle hitch mount
- Integral camera for awareness and alert triggered images: 640x480 pixel daylight images
- Internal K band radar with adjustable sensitivity
- Meets MUTCD Specifications

SpeedAlert Operation Modes

- Message Mode: Display one message, up to 3 screens
- All Messages: Sequence all messages in sign memory
- Speed Display: Display approaching vehicle's speed with "Your Speed" LED message
- Dependent Message: Display targeted messages based upon vehicle's speed
- Changeable speed limit sign
- Stealth or Display Off: Collect traffic speed and volume data with no LED display
- Schedule: Change message and/or mode up to 6 times/day
- Collect traffic data – vehicle volume by speed and time – in all modes
- Sign returns to last configuration when power applied

SpeedAlert Programming Methods

On-Board Programming (standard on all units)

- Select message from sign's memory
- Select operation mode
- Set Speed Limit

PC with Bluetooth or USB connection to sign: (PC control with USB connection standard with all signs)

- Create and change messages and settings
- Local data retrieval and management
- Local image retrieval and management from internal camera

ATS Mobile for Android devices, syncs with SmartApps

- Android OS wireless Bluetooth control local to unit
- Android device can be phone or WiFi device (must have Bluetooth)
- Manage all unit settings, automatic sync with SmartApps Web Based Management if subscribed
- All traffic data and messages automatically synced for online management and backup (included with ATS Mobile license)
 - Retrieve data and sync to SmartApps, generate reports online from hosted data
 - Create message and sync to SmartApps, then all messages available on all ATS Mobile devices

SmartApps Web-Based Management System using integral cell modem for remote management (See SmartApps specification for more information):



Product Specification

SpeedAlert 18 Radar Message Sign

- Create and load message using "Display Now" feature
- Load 24 messages into sign's memory
- Scroll messages in sign's memory
- Display signs stored on SmartApps or ATS Mobile
- Speeds
 - Speed limit
 - Maximum speed displayed
 - Display on/off/specific mph activation
 - Radar sensitivity (range)
 - Speed limit sign operation: Change speed limit up to six times per day
 - Metric hundreds display capable
- Set time via PC or sync with cell signal
- Sign firmware field and remotely upgradeable

✓ Speed Dependent Message System

- Different messages for each of 5 speed ranges
 - No cars
 - Cars \leq speed limit
 - Cars $>$ Speed Limit, $< x$
 - Cars $> x <$ upper speed
 - Cars $>$ upper speed
- Ranges dependent on speed limit setting only, so no message programming changes required with speed limit change to shift dependent message ranges.
- Independent Maximum Speed Displayed setting
- Speed Dependent Messages can be any SA24 messages, including
 - "YOUR SPEED" screen with 18" speed display digits
 - "SPEED LIMIT" screen with 18" speed limit display digits

✓ Scheduling

- All days, multiple messages: schedule up to 6 different messages or modes for up to 6 different time periods in a 24 hour day, repeats in each 24 hour cycle
- 7 day, multiple messages: schedule up to 6 different messages or modes for up to 6 different time periods in a 24 hour day for each of 7 days, repeats in each 7 day cycle; up to 25 different messages can be used over the 7 day period
- All messages and scheduling reside on the sign – no external hardware necessary
- Schedules can be saved on ATS Mobile for loading on multiple signs
- Program schedule via SmartApps, ATS Mobile or PC
- Camera activation available in schedule options
- Internal real time clock, time and schedule maintained with power disconnected

SpeedAlert Data Logging Option

- Traffic data reporting using SmartApps Online Reporting App,
- Collect data with SmartApps automatic service or Local collection with ATS Mobile or PC
- Reports include tables and charts to address all constituents with the most applicable data presentation
- All reports exportable to excel, csv and pdf
- Automatic Data Collection - SmartApps
 - Data retrieval at least 8 times per day – near real time reporting, memory never full
 - All data in one database, available for analysis including compliance comparisons by location

- Access reports from interactive map view by location
- Reports:
 - Summary page with average and 85th percentile speed, average daily volume, 10 MPH pace speed, high and low speed, display mode
 - Traffic counts by speed range, full day and time of day over selected date range with 5 MPH resolution
 - Vehicle counts by time range per day by hour
 - Vehicle counts by speed range and time of day
 - Compliance by speed range with 3 ranges
 - Enforcement report showing highest speed and volume violators over selected locations where data collected
- Local Data Collection – ATS Mobile or PC
 - All data collected with ATS Mobile hosted in online database for anywhere access
 - Download traffic data from sign with ATS Mobile or PC with USB or Bluetooth connection
 - 30 days of high volume data minimum, Data collection rolls over when memory reaches capacity

Reports:

- Summary page with average and 85th percentile speed, average daily volume, 10 MPH pace speed, high and low speed, display mode
- Traffic counts by speed range and time of day over selected date range with 5 MPH resolution
- Vehicle counts by time range per day by hour
- Traffic counts by speed range and time of day

Construction

- "YOUR SPEED" sign
 - High intensity prismatic reflective background
 - 24" x 8"
 - 3.5" high MUTCD 'C' letters
- LED pixels: Amber 595nm, 30 degree viewing angle, 100,000 hrs, black background, (MUTCD compliant)
- LED Density: 0.6"x1" pitch, 18 x 48 pixel matrix
- Radar: K Band (24.15 GHz), FCC Certified, no license req'd, \pm 1mph accuracy, 12 degree square pickup area, range: 2000+ ft., 5-105mph (8-150 kph)
- Conformal coating on all circuit boards
- Integral handle
- Weatherproof, NEMA 4, IP65 sealed
- 1/4" Tinted, non-glare, UV stabilized polycarbonate face
- Drip proof, vented battery compartments (2)
- Aluminum chassis, 14 ga, white powder coat finish, black powder coat front for maximum contrast for digit visibility
- Tamper resistant mounting hardware system, hardware secured behind enclosure lock
- -40 to 160 F operating temperature range, 95% humidity non-condensing (-20F for Bluetooth communication, 5F for internal camera)

SpeedAlert Power

- Power Input, Max:
 - 12 VDC, 3 A max, 36 W max
- Power saving circuitry and automatic dimming for ambient light conditions with adjustable dimming range and manual display brightness override
- SpeedAlert 18 Power Options:



Product Specification SpeedAlert 18 Radar Message Sign

- 16Ah Li-Ion Battery with built-in short circuit and reverse polarity protection circuitry; 1.5A 12.8 VDC output, 120VAC input automatic charger; Capacity for up to 2 batteries in unit for extended portable use
- Solar panel assist: 40W or 60W solar panel and bracket, Solar controller panel w/ 26Ah lead acid battery; 6A 120VAC automatic charger optional
- 100-220VAC AC power supply (6A 12VDC) in external NEMA 4 enclosure
- ATS 5 Trailer (batteries with optional solar assist: 235 or 470 Ah, 60W solar option)
- Display battery level indicator on sign, ATS Mobile or Web
- Low battery indicator on sign, auto recovery with solar

Standard SpeedAlert System Components

- SpeedAlert Radar Message Display SA18
- Tamper resistant mounting plate and hardware
- Key
- Web based programming software for PC control with USB cable

Optional SpeedAlert Components and Features

- SmartApps Web-Based Remote Management System
- Padded carrying case
- Extra mounting brackets
- Relay closure
 - 7A, 30VDC or 7A 120VAC max, 100mA 5VDC min, no power supplied, simply a contact closure
 - Trigger relay at specified speed with configurable duration from 1to 10 seconds per radar event
- Bullet resistant face
- Tamper alarm – ATS-5 trailer

SpeedAlert Mounting Options

- Pole mount standard with included bracket, hardware
 - NCHRP 350 approved on 4" pole (Letter SS-135)
- ATS-5 Trailer (refer to ATS 5 specifications for more info)
- Vehicle Hitch mount
 - Mounts sign 30" to bottom of sign from receiver tube (final height dependent on receiver height)
 - Fits 1 1/4" or 2" receiver, adapter included, 1/2" hitch pin
 - Locking rotation adjustment on 15 degree increments over 180 degrees, +/- 5 degrees tilt
 - White powder coat finish with rear reflector
- Standard Folding Portable Post
 - Folds for easy storage and portability
 - iA18: 60" to 73" to bottom, 80" to 93" to top of sign depending on leg positions
- Mounting provisions for permanent applications with 1/4-20 threaded holes

Warranty

- 1 year warranty (3 months on Li-Ion batteries)
- Premier Care SmartApp
 - Warranty service fully covered
 - Product software upgrades free
 - Vandalism and accidental damage (non-warranty) at 50% off list price

Made in the United States of America



SpeedAlert 18 Pole Mount



SpeedAlert 18 on ATS-5 Trailer

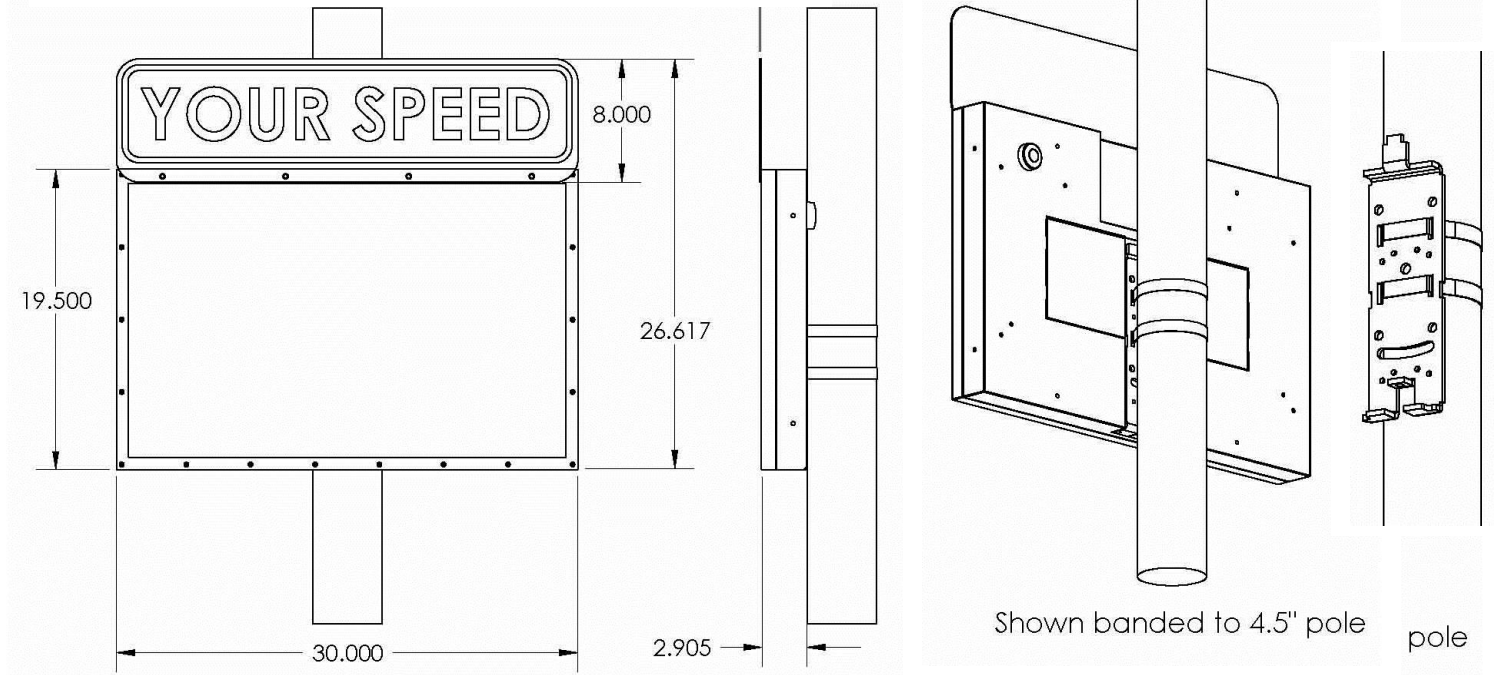


SpeedAlert 18 with Full Wrap
Your Speed Sign

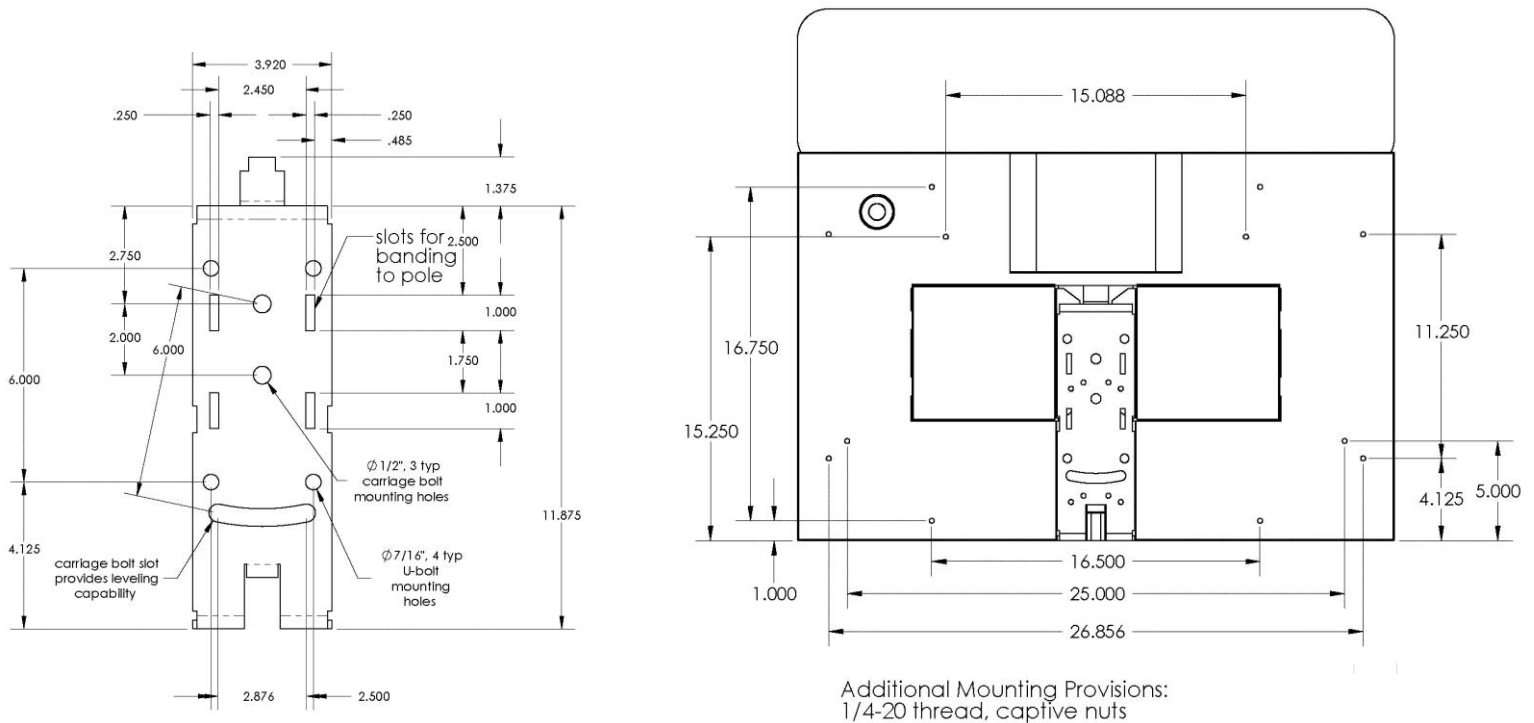


Product Specification SpeedAlert 18 Radar Message Sign

SpeedAlert 18 Dimensions



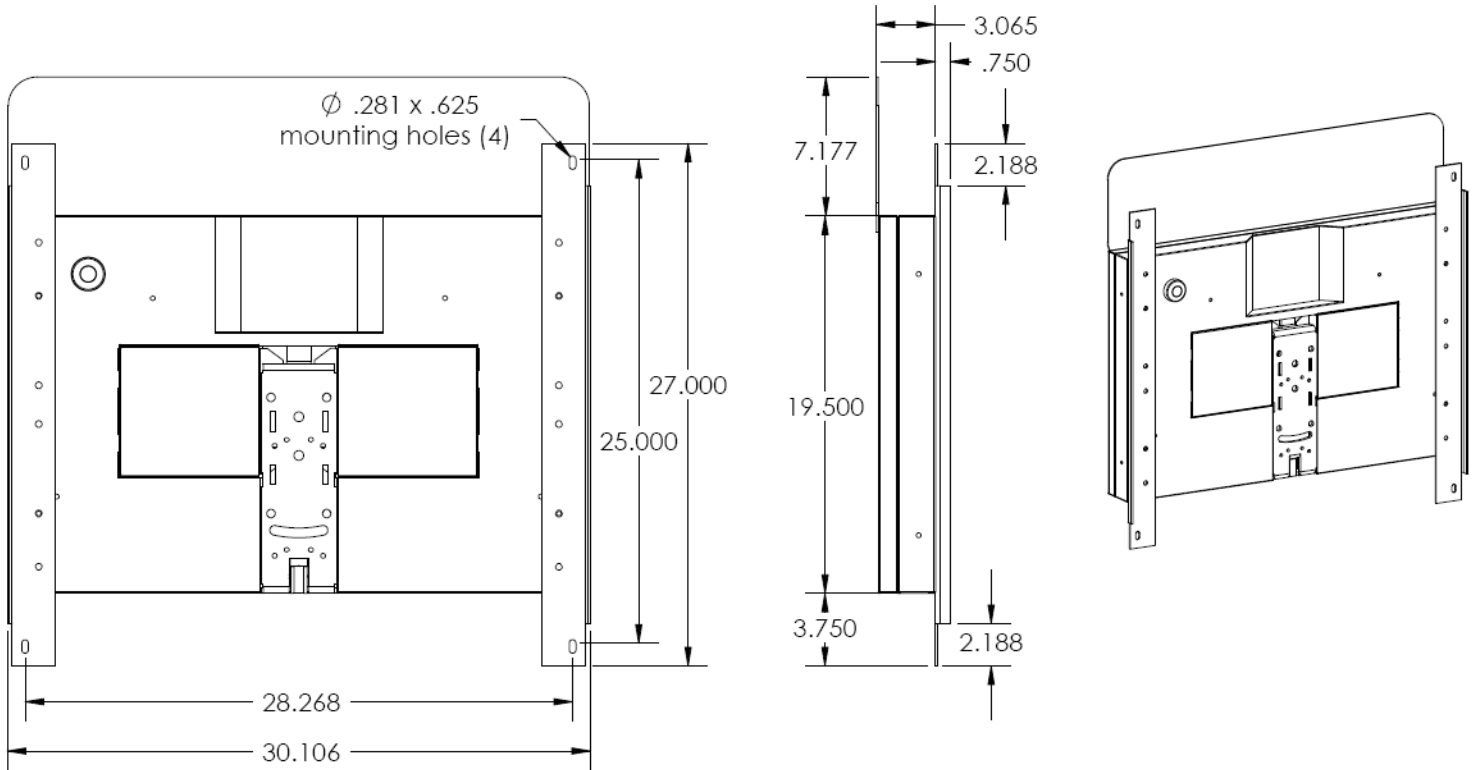
SpeedAlert 18 Mounting Bracket and Mounting Holes





Product Specification SpeedAlert 18 Radar Message Sign

**SpeedAlert 18 with trailer mounting brackets installed –
For installation on existing trailers for Trade In**



254964 36X43 Routed Blanks
Black on White HIP, Ruby Positive Made,
1.875" Radius, No Holes, .080 aluminum

Quantity = 12

