



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
7011EC20

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
**BUYER 33
 304-558-2402**

RFQ COPY
 TYPE NAME/ADDRESS HERE

American Signal Company

DIVISION OF HIGHWAYS
 EQUIPMENT DIVISION
 ROUTE 33
 BRUSHY FORK ROAD
 BUCKHANNON, WV
 26201 304-472-1750

DATE PRINTED: **02/08/2011** TERMS OF SALE: SHIP VIA: F.O.B.: FREIGHT TERMS:
 BID OPENING DATE: **04/12/2011** BID OPENING TIME: **01:30PM**

LINE	QUANTITY	UCP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		550-96		
<p>TRAILER MOUNTED SOLAR POWERED MESSAGE BOARD</p> <p>REQUEST FOR QUOTATION (RFQ) OPEN END CONTRACT</p> <p>THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF HIGHWAYS, IS SOLICITING BIDS FOR AN OPEN END CONTRACT TO PROVIDE A FULL MATRIX TRAILER MOUNTED SOLAR POWERED MESSAGE BOARD PER THE ATTACHED SPECIFICATIONS.</p> <p>TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO SHERI SLONE IN THE WEST VIRGINIA STATE PURCHASING DIVISION VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS RFQ, VIA FAX AT 304-558-4115, OR VIA EMAIL AT SHERI.D.SLONE@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 03/01/2011 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM TO BE ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED.</p> <p>MANDATORY PRE-BID A MANDATORY PRE-BID WILL BE HELD ON TUESDAY, 03/15/2011 AT 10 AM IN BRUSHY FORK RD IN BUCKHANNON, WV 26201. ALL INTERESTED PARTIES ARE REQUIRED TO ATTEND THIS MEETING</p>						

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PURCHASING DIVISION
 STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: _____ TELEPHONE: _____ DATE: _____

TITLE: _____ FEIN: _____ ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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SHIP TO

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 BRUSHY FORK ROAD
 BUCKHANNON, WV
 26201 304-472-1750**

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02/08/2011				

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<p>FAILURE TO ATTEND THE MANDATORY PRE-BID SHALL RESULT IN DISQUALIFICATION OF THE BID. NO ONE PERSON MAY REPRESENT MORE THAN ONE BIDDER.</p> <p>AN ATTENDANCE SHEET WILL BE MADE AVAILABLE FOR ALL POTENTIAL BIDDERS TO COMPLETE. THIS WILL SERVE AS THE OFFICIAL DOCUMENT VERIFYING ATTENDANCE AT THE MANDATORY PRE-BID. FAILURE TO PROVIDE YOUR COMPANY AND REPRESENTATIVE NAME ON THE ATTENDANCE SHEET WILL RESULT IN DISQUALIFICATION OF THE BID. THE STATE WILL NOT ACCEPT ANY OTHER DOCUMENTATION TO VERIFY ATTENDANCE. THE BIDDER IS RESPONSIBLE FOR ENSURING THEY HAVE COMPLETED THE INFORMATION REQUIRED ON THE ATTENDANCE SHEET. THE PURCHASING DIVISION AND THE STATE AGENCY WILL NOT ASSUME ANY RESPONSIBILITY FOR A BIDDER-S FAILURE TO COMPLETE THE PRE-BID ATTENDANCE SHEET. IN ADDITION, WE REQUEST THAT ALL POTENTIAL BIDDERS INCLUDE THEIR E-MAIL ADDRESS AND FAX NUMBER.</p> <p>ALL POTENTIAL BIDDERS ARE REQUESTED TO ARRIVE PRIOR TO THE STARTING TIME FOR THE PRE-BID. BIDDERS WHO ARRIVE LATE, BUT PRIOR TO THE DISMISSAL OF THE TECHNICAL PORTION OF THE PRE-BID WILL BE PERMITTED TO SIGN IN. BIDDERS WHO ARRIVE AFTER CONCLUSION OF THE TECHNICAL PORTION OF THE PRE-BID, BUT DURING ANY SUBSEQUENT PART OF THE PRE-BID WILL NOT BE PERMITTED TO SIGN THE ATTENDANCE SHEET.</p> <p>EXHIBIT 10</p> <p>REQUISITION NO.:</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
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TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
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ADDRESS CORRESPONDENCE TO AT MENTIONED
**BUYER 33
 304-558-2402**

VENDOR PROPERTY

RFQ COPY
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SHIP TO

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<p>ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NO.'S:</p> <p>NO. 1</p> <p>NO. 2</p> <p>NO. 3</p> <p>NO. 4</p> <p>NO. 5</p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p>..... SIGNATURE <i>American Signal Co.</i> COMPANY 4/8/11 DATE</p>						

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<p>NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.</p> <p>REV. 09/21/2009</p> <p>EXHIBIT 2</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE UPON AWARD AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING THIRTY (30) DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS, AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p> <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p>						

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RFQ COPY

**DIVISION OF HIGHWAYS
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<p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK).</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIES BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN EQUIPMENT CONTRACT ORDER (FORM NUMBER WV-35) FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL WV-35 MUST BE SENT TO THE PURCHASING DIVISION OF THE DEPARTMENT OF ADMINISTRATION. AFTER APPROVAL AND ENCUMBRANCE, ONE COPY OF THE PURCHASE ORDER WILL BE RETURNED TO THE SPENDING UNIT AND ONE COPY FORWARDED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT. NO ORDER IS VALID UNLESS APPROVED AND ENCUMBERED BY THE PURCHASING DIVISION.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FUTURE ORDER.</p> <p>REV. 5/2009</p> <p>EXHIBIT 4</p>						

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SUPPLIER

**DIVISION OF HIGHWAYS
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<p>LOCAL GOVERNMENT BODIES: UNLESS THE VENDOR INDICATES IN THE BID HIS REFUSAL TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO COUNTY, SCHOOL, MUNICIPAL AND OTHER LOCAL GOVERNMENT BODIES, THE BID SHALL EXTEND TO POLITICAL SUBDIVISIONS OF THE STATE OF WEST VIRGINIA. IF THE VENDOR DOES NOT WISH TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO ALL POLITICAL SUBDIVISIONS OF THE STATE, THE VENDOR MUST CLEARLY INDICATE SUCH REFUSAL IN HIS BID. SUCH REFUSAL SHALL NOT PREJUDICE THE AWARD OF THIS CONTRACT IN ANY MANNER.</p> <p>REV. 3/88</p> <p>PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS</p> <p>1. EXCEPT WHEN AUTHORIZED BY THE DIRECTOR OF THE PURCHASING DIVISION PURSUANT TO SUBSECTION 2 BELOW, NO CONTRACTOR MAY USE OR SUPPLY STEEL PRODUCTS FOR A STATE CONTRACT PROJECT OTHER THAN THOSE STEEL PRODUCTS MADE IN THE UNITED STATES. AS USED USED I THIS CONTRACT,</p> <p>A. "STATE CONTRACT PROJECT" MEANS ANY ERECTION OR CONSTRUCTION OF, OR ANY ADDITION TO, ALTERATION OF OR OTHER IMPROVEMENT TO ANY BUILDING OR STRUCTURE, INCLUDING, BUT NOT LIMITED TO, ROAD OR HIGHWAYS, OR THE INSTALLATION OF ANY HEATING OR COOLING OR VENTILATING PLANTS OR OTHER EQUIPMENT, OR THE SUPPLY OF AND MATERIALS FOR SUCH PROJECTS, PURSUANT TO A CONTRACT WITH THE STATE OF WEST VIRGINIA FOR WHICH BIDS WERE SOLICITED ON OR AFTER JUNE 6, 2001.</p>						

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CONTACT PERSON (PLEASE PRINT CLEARLY):						

<i>Casey Inoue</i>						

***** THIS IS THE END OF RFQ 7011EC20 ***** TOTAL: _____						

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EQUIPMENT DIVISION

PROCUREMENT SPECIFICATIONS
NO. 843-1-G

OPEN END CONTRACT

FULL MATRIX
TRAILER MOUNTED SOLAR POWERED MESSAGE BOARD

1.0 PURPOSE

It is the purpose of these specifications to describe a Full Matrix Trailer Mounted Solar Powered Message Board (hereinafter referred to as a "unit") to be purchased for use by the West Virginia Division of Highways (DOH) on an Open End Contract basis.

2.0 BIDDING PROCEDURES

The current purchasing procedures regarding bidding as established by the Department of Administration, Purchasing Division, shall apply. Failure to submit the "Request for Quotation" forms, complete in its entirety and according to directions indicated, may subject the bidder to disqualification. Each bid submitted shall also be accompanied by a Bidder's Evaluation Report completed in detail. Addendums in order, along with exception sheets, should be with Bidder's Evaluation Report. FAILURE TO SUBMIT THE BIDDER'S EVALUATION REPORT, COMPLETE IN ITS ENTIRETY, WILL RESULT IN AUTOMATIC DISQUALIFICATION.

3.0 SPECIFICATIONS

The specifications named herein, mandatory and non-mandatory, establish the acceptable level of quality only and are not intended to reflect a preference or favor any particular brand or vendor.

3.1 EXCEPTIONS TO NON-MANDATORY SPECIFICATIONS

Exception to a non-mandatory unit specification may be made by the bidder, providing the exception is not available from the manufacturer. **Any such exception must be noted on the bidder's evaluation report and should be accompanied by supporting documentation/literature from the manufacturer. Any exception must be indicated on a separate attachment to the bidder's evaluation report and labeled as "Exception to Specifications".** The state reserves the right to waive minor irregularities in bids or specifications in accordance with §148-1-4(f) of the WV Legislative Rules and Regulations.

3.2 MANDATORY SPECIFICATIONS

All specifications preceded by "shall, will, and/or must" or are stated as a "minimum and/or maximum" are mandatory as stated in Purchasing Divisions Policies and Procedures. Any bid failing to meet any mandatory item shall be immediately disqualified. Failure to respond in the appropriate evaluation section will also be grounds for immediate disqualification at the discretion of the State.

A mandatory pre-bid conference is scheduled for this equipment purchase as stated in the RFQ. Vendors having products with variations or exceptions in specified mandatory items are expected to address any such variations or exceptions during the pre-bid conference. **The State shall review and consider any such variation or exception, and may at its sole discretion, issue an addendum to change mandatory specifications deemed to be in the State's best interest. Bids from any vendor failing to attend the mandatory pre-bid shall be disqualified. Bids containing any variation or exception to a mandatory specification that was not addressed during the pre-bid conference and accepted by the issuance of an Addendum shall be disqualified.**

4.0 REPRESENTATIVE UNIT FOR TEST

The successful vendor must (if specified) provide DOH one (1) completed representative unit to be observed and evaluated on each order to insure compliance with specification. If requested, the time period for testing and evaluation shall be seven (7) working days following receipt of the unit. DOH will incur no obligation for deterioration of surfaces, finishes, seals, and mechanical or electrical parts on the unit resulting from operation and testing within the limits of these specifications; nor will DOH incur obligation for damage to the unit resulting from failure to meet specifications when due care and attention is given by DOH and testing is done within the limits of these specifications. Failure of the pilot unit to satisfactorily meet specifications as bid may be cause for cancellation of the purchase order, and return of the delivered unit along with all associated equipment to the vendor at the vendor's expense.

4.1 CONDITION OF UNIT(S) UPON DELIVERY

All units must arrive at the prescribed delivery point having been completely preserviced with oil, lubricants, and coolant. All prescribed precautions pertaining to first operations and break-in of the unit are to be posted conspicuously on the unit for ready observance by the operator.

4.2 DELIVERY

Delivery point of the completely assembled representative unit will be the DOH, Equipment Division, Route 33 at Brushy Fork Road, Buckhannon, West Virginia (26201).

The vendor is responsible for guaranteeing delivery of the completed units within the time specified and agreed to by the State. Delivery is preferred within 120 days after receipt of purchase agreement. The vendor is responsible for establishing and coordinating delivery terms with allied manufacturers or suppliers. Delivery terms should be stated in the bid and the State reserves the right to accept or reject such terms. Failure to reach an agreement may result in rejection of the bid. **The successful bidder shall provide their manufacturer's confirmation of the order to the WVDOH contact person within seven (7) working days after receiving the approved purchase order.**

A completed pilot model for inspection must be provided within 30 calendar days after receipt of the purchase agreement by the successful vendor.

Delivery is an integral part of this specification and failure to comply will be cause to initiate a D.O.T. Administrative Form WV-82, Vendor Performance Form. The WV-82 Form will provide a means of officially notifying the Purchasing Division and the vendor of unsatisfactory performance; such as late deliveries, poor service, inadequate parts supplies, etc.

The decision to initiate subject Form will be at the sole discretion of the D.O.H. Commissioner's established Equipment Review Board.

Issuance of the WV-82 Vendor Complaint Form on unsatisfactory delivery against any vendor will be cause to refuse to consider similar items from those vendors on future Request For Quotations.

(NOTE: Delivery time could be altered due to labor strikes, severe inclement weather conditions, etc.)

5.0 AWARD CRITERIA

- 5.1 DOH will recommend the award in accordance with the RFQ evaluation criteria described in the requisition. **The award shall be made to the lowest unit cost vendor that meets or exceeds the specifications.** DOH reserves the right to place multiple orders in any quantity.

6.0 SPECIFICATIONS AND GUIDELINES - GENERAL

6.1 IDENTIFICATION OF THE UNIT BEING PROPOSED

The bidder must identify the unit by manufacturer, model, series, and year of manufacture, to enable identification by DOH in the manufacturer's specifications of the proposed unit. The bidder will submit complete descriptive literature of the proposed unit, to establish that the bid is the manufacturer's most current model, including latest engineering improvements, which have been, or will imminently be, regularly advertised and sold on the open market. The unit specified herein and offered

to be manufactured after January 1, 2011 and be clearly identified and marked with date of manufacture.

6.2 OPERATING AND SERVICE MANUALS AND PARTS LISTS

An operator's manual must be included with each unit upon delivery. A "line sheet" (if applicable) and Equipment Preventative Maintenance Questionnaire (as shown in X6.2 of the Bidder's Evaluation Report) must be with pilot unit upon delivery. In addition, there must be 12 service, shop, or maintenance manuals; ten (10) to be distributed to the Districts and two (2) for the Equipment Division. Also, there must be 14 parts manuals; ten (10) to be distributed to the Districts and four (4) for Equipment Division use. CD ROM is preferred in lieu of parts or service manuals.

* **NOTE: MANUALS SHALL BE DELIVERED UPON COMPLETION OF DELIVERY OF TOTAL UNITS. FAILURE TO DO SO WILL DELAY PAYMENT.**

6.3 TRAINING:

Manufacturers and/or dealers will be required to stage a thorough seminar on the subjects of Preventative Maintenance, Operator and Mechanic Training. In order to keep the operators and mechanics updated, the successful vendor shall conduct training with each purchase order against this open end contract. Training is preferred within 2 working days after delivery of the pilot unit on the individual purchase order.

Manufacturers and/or dealers shall be required to furnish the Training Academy with one (1) Operator's Manual to be shipped direct to WVDOH Training Academy, Post Office Box 610, Buckhannon, West Virginia 26201 prior to delivery of the pilot.

The seminar to be held at the W. Va. Division of Highways, Equipment Division, Buckhannon, West Virginia.

6.4 PREVENTIVE MAINTENANCE AND OPERATOR PROCEDURES:

Manufacturers and/or dealers will be required to submit to the Equipment Division, in addition to the operating and service manuals, booklets and pamphlets explaining the Preventive Maintenance and Operator Procedures to be used by the operators of this equipment, and must include such things as daily prestart inspection procedure, service schedule, and routine maintenance required, safety precautions, etc.

The successful vendor shall furnish all training aids; i.e., videos, projectors, etc. required in conducting the training.

6.5 WARRANTY AND SERVICE POLICY

The Manufacturers warranty or service policy is to apply to the unit. Such warranty or service policy is to be recognized at any authorized unit dealer, representing manufacturer of proposed unit throughout the State of West Virginia. The applicable warranty or service policy will not be contingent upon obtaining routine service, lubrication, and servicing of the unit from factory authorized agencies. It will be the responsibility of the bidder to have available labor to repair or replace any defective replacement parts, components and materials, and to have available those replacement parts, components, and/or materials found to be defective during the terms of the warranty period. The bidder should state the labor rates, locations where parts will be stocked, availability of parts, and discounts offered for parts, when terms of the warranty offer a pro-rated cost for parts and labor. In addition, the successful bidder should offer field work to repair or replace defective parts, components, and materials found to be defective during the terms of the warranty and should provide mechanic's travel rates, mileage charges, field mechanic rates, and any surcharge for miscellaneous items, if applicable, for field work during the warranty period. Submit to Division of Highways any technical or engineering improvements during the term of the warranty. **The unit must be accompanied upon delivery by the unit's manufacturer's executed warranty or service policy.**

A mandatory minimum two (2) year bumper to bumper basic parts and labor warranty excluding abuse and normal wear items is required for this unit.

THE "WARRANTY AND SERVICE POLICY QUESTIONNAIRE" ATTACHED IN THE BIDDER'S EVALUATION REPORT MUST BE COMPLETED IN ITS ENTIRETY BY THE SUCCESSFUL BIDDER OR MANUFACTURER PRIOR TO DELIVERY OF THE PILOT MODEL. (SEE SECTION X6.5 OF BIDDER'S EVALUATION REPORT).

6.6 EVALUATION COMMITTEE REQUIREMENTS

Detailed component specifications, product literature, component models, required for specification compliance determination by the Evaluation Committee should be provided with each bid. Any information supplied that is contrary to/or conflicting with the specifications and/or attached Bidders Evaluation Report may be sufficient cause for rejection of bid.

6.7 UNSPECIFIED ACCESSORIES & FEATURES

All parts, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, must be furnished with each unit and required to conform to strength, quality of material, and quality of workmanship to those which are advertised and provided to the market in general by the unit industry.

All parts and accessories advertised and regularly supplied as standard shall be included, except those which would represent duplication of these specified, and except those which, by specification, are not to be furnished. All standard safety features, required by Federal and State Law, shall be included.

7.0 SPECIFICATIONS OF THE QUOTED UNIT ARE AS FOLLOWS:

To be a trailer mounted Full – Matrix Variable Message Board consisting of an optically enhanced L.E.D.s. L.E.D.s shall have a minimum of a 30° vertical and 30° horizontal cone of visibility. The full-matrix panel shall be powered by a bank of batteries in order to convey bright, distinctive messages to the traveling public. All Full-Matrix Variable Message Boards shall be tested by AASHTO's National Transportation Product Evaluation Program (NTPEP).

7.1 Batteries shall be automatically recharged by a group of solar panels located at the highest point on the unit.

7.1.1 Unit shall be designed with sufficient energy backup to operate for a period of 30 days without any sun.

7.1.2 The solar panel generator array should recharge the battery bank at a rate of approximately 2.5 hours sun to one (1) 24 hour period of usage. (Refer 7.5.3)

7.2 Sign Panel Construction:

7.2.1 To be of aluminum construction or fabricated with powder coated sheet metal and in a flat black finish. All exposed panels and seams shall be corrosion proof for a minimum of ten (10) years. With construction, all panels/parts shall be assembled as to prevent corrosion or to prevent dissimilar metal reaction from occurring.

7.2.2 The sign panel frame to be a welded assembly constructed of aluminum alloy channel, or from steel panels powder coated in a corrosion proof manner for a minimum of ten (10) years.

- 7.2.3** Length of sign panel shall not exceed 140 inches.
- 7.2.4** Face of sign shall incorporate measures to prevent fading from UV light, such as a polycarbonate or lexan face with UV inhibitors incorporated. Other methods shall be subject to review and approval.
- 7.2.5** The sign face shall be of a sufficient size in order to display three (3) lines of eight (8) characters, with each character to be eighteen (18) inches tall by twelve (12) inches wide. Characters to be spaced a minimum of three (3) inches apart.
- 7.2.6** Each character configuration to contain 54 L.E.D. lamp pixels in a six (6) element horizontal by nine (9) element vertical arrangement.
- 7.2.7** Each pixel shall consist of a minimum of three (3) LEDs.
- 7.2.8** Message color to be approximately 590 nanometers.
- 7.3** The sign to have capability to display up to six (6) messages in sequence, with variable timing in ¼ second increments under computer control.
- 7.3.1** As part of the manufacturer's pre-programmed message sequences, arrow display and flashing caution functions shall be included. All arrow and flashing caution displays described in the current MUTCD shall be provided.
- 7.3.2.** All abbreviations used in pre-programmed messages shall be in compliance with the current MUTCD.
- 7.3.3.** Entire sign to have capability to change all lines of message copy in not more than 100 milli-seconds.
- 7.3.4.** The sign shall be clearly visible a minimum of 4500 feet.
- 7.3.5.** The sign legend shall be legible from a minimum distance of 1,000 feet under daylight conditions as defined determined by NTPEP for two --non-traffic word message.
- 7.3.6.** The sign legend shall be legible from a minimum distance of 900 feet under night-time conditions as determined by NTPEP for a two non-traffic word message.
- 7.3.7.** Under variable light conditions, the unit shall automatically adjust light source so as to meet the visibility requirements, without being too bright or too dim.

7.4 Solar Message Board Support

- 7.4.1 **Solar message board sign panel shall be supported on a telescoping upright member in order to permit raising the sign panel for operation and lowering the panel for transport. The upright must be capable of 360 degrees rotation and to lock into any position to which it is manually or electrically rotated.**
- 7.4.2 **Raise and lower travel to be approximately four (4) feet and shall be accomplished by a hydraulic power pack.**
- 7.4.3 **The bottom of the sign to be minimum of seven (7) feet above ground level when in the raised position.**
- 7.4.4 **In transport position, the sign shall orient to the longitudinal axis of the trailer in a manner that effectively reduces aerodynamic drag during towing.**

7.5 Power and Miscellaneous Equipment:

- 7.5.1 **Unit shall be designed to accept two (2) power sources; one (1) being a battery bank consisting of four (4) size 4-D, deep cycle, lead acid 12 volt DC batteries wired in parallel (or as designed to meet power/time requirements).**
- 7.5.2 **The second power supply to have the capability of the unit to accept existing 120 volt commercial electric service.**
- 7.5.3 **Batteries to be recharged by a solar panel array producing approximately 165 watts of power. (Refer 7.1.2)**
- 7.5.4 **Unit shall provide a built-in battery charger with a minimum 25 ampere per hour rating.**
- 7.5.5 **Battery bank shall be housed in lockable heavy duty weatherproof battery boxes.**
- 7.5.6 **The two (2) power sources to be enclosed in an appropriate protective housing.**
- 7.5.7 **Batteries to be capable of being recharged by a commercial 110 volt battery charger.**

7.6 Control Requirements:

- 7.6.1 **The unit shall be controlled in all functions by an on-board dedicated computer of solid state design and be removable.**

- 7.6.2 **Unit shall include a keyboard through which user originated messages may be entered for display or storage.**
- 7.6.3 **Include an LCD display screen upon which messages can be reviewed before display on sign board.**
- 7.6.4 **Computer shall store a minimum of 250 programmed messages for display when called upon by user through the keyboard.**
- 7.6.5 **Capability of storing a minimum of 100 message sequences.**
- 7.6.6 **Unit to maintain stored message list.**
- 7.6.7 **Unit to provide password coding or key entry.**
- 7.6.8 **Provide control programming to present sequences messages under operator control through keyboard entry.**
- 7.6.9 **Provide control for moving arrow displays.**
- 7.7 **Solar Panel Control Unit**
 - 7.7.1 **The computer and power control unit shall be housed in a weather resistant, shock resistant lockable control box which includes lighting for night-time operation.**
 - 7.7.2 **Power control unit to contain two (2) current meters; one (1) to show amperage generated with the battery charge operating, and one (1) to indicate amperage generated from the solar panels to be stored in the battery bank.**
 - 7.7.3 **The power control unit shall incorporate a PV regulator with thermal compensation for variances in ambient temperature to regulate the charge rate to the battery bank.**
 - 7.7.4 **The unit to incorporate an automatic intensity control feature in order to keep L.E.D. lamp matrix intensity constant with a reduction in voltage.**
 - 7.7.5 **The message unit must provide a photocell in order to reduce the lamp intensity at night eliminating blinding.**

7.8 Trailer:

- 7.8.1 Two (2) wheel trailer shall be structurally adequate to serve both platform for components.**
- 7.8.2 Fenders: Steel fenders to be provided and installed over each wheel.**
- 7.8.3 Trailer to be equipped with a hydraulic brake actuator system.**
- 7.8.4 Leveling Jacks: Four (4) crank type, heavy duty, industrial leveling jacks; one (1) at each corner of the trailer deck to be installed.**

7.9 Lighting:

- 7.9.1 Unit shall include LED tail lights, stop lights, turn signals, license mount with light, and all necessary reflectors.**
- 7.9.2 Trailer electrical cable and connector (Cole Hersee Pt# 12081 male or equal) compatible with towing vehicles to be installed.**
- 7.9.3 All trailer wiring to be encased in heavy duty hypalon type industrial wire looms clamped to underside of the trailer structural tubing.**
- 7.9.4 A two (2) inch ball type trailer hitch 6,000 pound capacity with double safety chains in accordance with SAE J684F shall be installed.**

7.10 Hydraulic Power Pack:

- 7.10.1 Shall be 12 volt DC motor, pump, valve, reservoir, manual hand pump or approved equal.**

7.11 Message Cabinet Dimensions:

7.11.1 Length: Maximum length of 140 inches.

7.11.2 Height: Maximum of 79 1/2 inches

7.12 Central Processing Unit – CPU Specifications (Minimum):

7.12.1 Microprocessor Based 27.1 MHz.

7.12.2 Power requirements: 175 mA DC at 12 volts DC.

7.12.3 Screen Size: Minimum of Three (3) lines, with Eight (8) characters per line.

7.12.4 Interfaces: (2) RS232 9 pin D connectors and documentation on port numbers and pins. In addition, one USB port or one ETHERNET Port with USB adaptor shall be provided

7.12.5 Code: Application source code to be delivered with unit or held in escrow and provided to WVDOH in case company goes out of business.

7.12.6 Documentation: Technical documentation for unit and for application programs.

7.12.7 Unit shall include all other features considered as standard equipment but not specifically addressed previously.

7.12.8 Vendor must certify that unit offered will comply with Occupational Safety and Health Act of 1970 and subsequent amendments.

7.12.9 Paint: The complete unit to be painted with the manufacturers standard colors and materials.

7.12.10 Advertising: Manufacturer to attach a metal plate on the unit stating manufacturer, date of manufacture, serial number, model number, etc. No large decals or painted advertisements are permitted.

7.12.11 Preventive Maintenance and Operator Procedures: Manufacturers and or Dealers shall provide a preventive maintenance and operator orientation seminar at the Equipment Division, in Buckhannon, WV. All training aids i.e., videos, charts, manuals, etc., to furnished by successful vendor.

7.13 Communications:

7.13.1 Unit shall be guarded from any unwanted outside RF interference which would include but not be limited to VHF/FM receiver, 2 way radio receiver, cell phones, etc.

7.13.2 Each PVMS shall be controlled and monitored by its own sign controller directly from the control console inside the control cabinet on the trailer itself.

7.13.3 The PVMS sign controller shall be able to receive instructions from and provide information to a computer containing PVMS control software compliant using NTCIP compliant communications modes:

- 7.13.4 Remote Communications control via wireless communications with a remotely located computer. The system communications backbone, as well as all field modems or signal converters, shall provide the PVMS sign controller with an RS232 signal having a baud rate between 2,400 bps and 115,200 bps. Communications shall be static IP based with a static IP based modem installed on the trailer.**
- 7.13.5 Local Communications control shall be accomplished via direct connection with a laptop computer that is connected directly to the sign control using a null modem connection and a baud rate between 2,400 bps and 115,200 bps.**
- 7.13.6 Local Communications control shall be available via a keypad and LCD interface. Features shall include addition or removal of message or message (s) from the PVMS list of playing messages, adjustment of luminosity to manual or automatic, and ~~monitor~~the monitoring of miscellaneous data like battery voltage, photocells reading, etc.**

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EQUIPMENT DIVISION

BIDDER'S EVALUATION REPORT

PROCUREMENT SPECIFICATIONS FOR OPEN END CONTRACT
NO. 843-1-G

FULL MATRIX
TRAILER MOUNTED SOLAR POWERED MESSAGE BOARD

NOTE TO BIDDER: Procurement Specification No. 843-1-G, Paragraph 2.0 recommends the completion and submittal of this Report with your bid. Purpose of this Report is to enable the West Virginia Division of Highways Evaluation Committee to make full and fair evaluation of the bid. Addendums in order, along with a summary of exception as a separate attachment, should be with Bidder's Evaluation Report. FAILURE TO SUBMIT THIS REPORT, COMPLETE IN ITS ENTIRETY, MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

Reference Requisition No.: 7011EC20

Bidder's Name: American Signal Company

Address: 2755 Bankers Industrial Dr. Atlanta, GA 30360

Telephone Number: 770.448.6650

Years Bidder has been registered to do business with the State of West Virginia: 8 YRS.

Years Company has been an authorized dealer for proposed unit: 20 YRS.

X3.2 Have you complied with all mandatory specifications? YES NO

X4.2 DELIVERY:

X4.2.1 Delivery date of completed representative unit: 28 Calendar Days After
Receipt of Purchase Agreement

X4.2.2 Delivery date of balance of completed units: 28 Calendar Days After Receipt of
Purchase Agreement

The "Bidder's Evaluation Report" is available for download on Purchasing's Web site at
www.state.wv.us/admin/purchase

X5.0 AWARD CRITERIA;

X5.1 Price per unit:

16,800.⁰⁰ per unit

X6.0 SPECIFICATIONS - GENERAL

X6.1 Manufacturer, model, series, and date of manufacture of proposed unit:

American Signal NTCIP CMS-T333

Is descriptive literature, fully describing proposed unit attached to your bid? YES NO

If not, why? _____

X6.2 Will the required number of service manuals, and complete parts list be delivered to the Equipment Division at Buckhannon upon completion of delivery of total units?

YES NO

Will the required Equipment Preventive Maintenance Form (Section X6.2 of Bidders Evaluation Report) be provided upon inspection of the pilot unit?

YES NO

X6.2
2-10-00

EQUIPMENT PREVENTATIVE MAINTENANCE QUESTIONNAIRE

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY BY SUCCESSFUL BIDDER OR MANUFACTURER'S TECHNICAL REPRESENTATIVE PRIOR TO DELIVERY OF PILOT MODEL TO THE WVDOH.

DESCRIPTION: NTCFP Full Matrix message sign MAKE: American Signal Co.

MODEL: NTCFP CMS-T333 YEAR: 2011 PURCHASE AMOUNT: _____

ENGINE: MAKE: _____ MODEL: _____ FUEL TYPE: _____

HORSEPOWER: _____ CYLINDER: _____ ENGINE SERIAL: _____

COOLING SYSTEM CAPACITY: _____

BELTS: DESCRIPTION: _____ PART NUMBERS: _____

GVW: 2950 AXLE CAPACITY: FRONT: 3500 REAR: _____

TIRES: FRONT MAKE & SIZE: P 205-75-15 B

REAR MAKE & SIZE: _____

DIMENSIONS OF UNIT: LENGTH: 190" WIDTH: 79.5" LENGTH: _____

VENDOR CONTACT PERSON: Casey Inoue PHONE: 770.448.6650

PARTS:

BATTERY MAKE: Trojan MODEL: T-605 CCA: _____
TOP OR SIDE POST: TOP DIMENSIONS: LENGTH _____ WIDTH _____ HEIGHT _____
SPARK PLUGS OR FUEL INJECTORS MAKE: _____ PART # _____
FUEL PUMP OR INJECTION PUMP MAKE: _____ MODEL: _____
ALTERNATOR MAKE: _____ PART #: _____
STARTER MAKE: _____ PART #: _____
TURBO CHARGER MAKE: _____ PART #: _____
TRANS. MAKE: _____ MODEL: _____ AUTO/MANUAL: _____
HYDRAULIC PUMP MAKE: _____ MODEL: _____

FILTERS	MAKE	PART NO.	LUBRICANT	MANUFACTURER TYPE
OIL	_____	_____	ENGINE	_____
AIR INNER	_____	_____	TRANSMISSION	_____
AIR OUTER	_____	_____	POWER STEERING	_____
FUEL PRIMARY	_____	_____	HYDRAULIC	_____
FUEL SECONDARY	_____	_____	DIFFERENTIALS	_____
COOLANT	_____	_____	BRAKE FLUID	_____
HYDRAULIC	_____	_____	COOLANT	_____
OTHER	_____	_____	OTHER	_____

X6.3 TRAINING:

Will training seminar be conducted on Preventive Maintenance, Operator and Mechanic Training
 YES NO

Will you conduct training with each purchase order against this open end contract?
 YES NO

Will training be conducted within 2 working days from the delivery of the pilot unit on the individual purchase order?
 YES NO

If NO, explain time frame _____

Will an Operator's Manual be furnished directly to Training Academy prior to the delivery of the pilot?
 YES NO

X6.4 If you are the successful vendor, will you furnish all training aids, i.e., videos, projectors, required in conducting the training?
 YES NO

X6.4.1 Will all manuals, booklets, etc. explaining preventive maintenance, operator procedures, and service schedule be delivered with each unit?
 YES NO
 If NO, explain _____

X6.5 WARRANTY AND SERVICE POLICY

Will the warranty and service you provide comply with all areas as stated in Section 6.5 of specifications
 YES NO

Is warranty literature attached?
 YES NO

Is a minimum two (2) year bumper to bumper basic parts and labor warranty excluding abuse and normal wear items included?
 YES NO

Describe:

X6.5 WARRANTY AND SERVICE POLICY QUESTIONNAIRE

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY AND SUBMITTED WITH YOUR BID.

(If additional lines are needed, make copies of form.)

1. Define the terms of the standard warranty. If not offered, so state. (Attach copy)

As detailed in Section 6.5

2. Define warranty service to be performed at DOH facilities and warranty service to be performed at manufacturer's representative facility. List name and location of manufacturer's representative.

All service to be performed at DOH facilities unless factory techs deem otherwise by necessity. M. H. Corbin Inc. - Plain City, OH
Visum Technologies - Baltimore, MD

3. List locations for parts inventories that are within the State of West Virginia. Also, list availability levels, if known.

M. H. Corbin, Inc - Plain City, OH
Visum Technologies - Baltimore, MD

Representative facilities and/or factory have inventories maintained to sufficient levels for 24-hr delivery.

4. During the term of warranty, list the guarantee discount to manufacturer's published list price for parts that bidder will sell the parts to owner.

- | | | |
|----|---------------|--|
| A. | Terms: Net 30 | Manufacturer's published list price less: <u>10</u> % discount |
| B. | Terms: Net 60 | Manufacturer's published list price less: <u>10</u> % discount |
| C. | Terms: Net 90 | Manufacturer's published list price less: <u>10</u> % discount |

5. During the term of warranty, will all manufacturers or engineering improvements be submitted to Division of Highways? YES NO

6. During the term of warranty, list the guaranteed rates charged for repair to the unit.

- | | | |
|----|---|---|
| A. | Shop Rate | \$ <u>85</u> per mechanic hour ^{visum} |
| B. | Travel Time Charge
(Specify if one-way) | \$ <u>50</u> per mechanic hour ^{visum}
; port to port _____ |
| C. | Mileage Charge
(Specify if one-way) | \$ <u>.60</u> per vehicle mile ⁶⁰
; port to port _____ |
| D. | Field Mechanic Rate | \$ <u>85</u> per mechanic hour |
| E. | Specify period of time that prices are in effect: | <u>24 months</u> |
| F. | Surcharge for miscellaneous items: | <u>0</u> % |

X6.6 EVALUATION COMMITTEE REQUIREMENTS

Is all component specifications, product literature, component models provided for Evaluation Committee bid determination? YES NO

X6.7 Will all parts, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, be furnished with the unit and conform in strength, quality of material, and quality of workmanship to those which are advertised and provided to the market in general by the unit industry?

YES NO

X6.7.1 Are all parts and accessories adequate and regularly supplied as standard to be included except those which may be duplications of specifications herein, and except these by specification are not to be furnished?

YES NO

X6.7.2 Are all standard safety features that are required by Federal and State statutes of law included?

YES NO

X7.0 SPECIFICATIONS OF THE QUOTED UNIT:

The bidder should complete the following schedule in order for the Division to compare the actual bid unit to the specifications. Should the bidder except a requirement, then such exception may be only on the basis that such feature is not offered by the manufacturer. **The Division will have the sole discretion as to whether the bidder's substitution meets the requirements of the specification.**

Manufacturer: American Signal Co.

Model: NTCIP CMS-T333

Is unit a trailer mounted Full - Matrix Message Board consisting of an optically enhanced L.E.D.'s.

YES NO

Are the L.E.D.s minimum of a 30° vertical and 30° horizontal cone of visibility.

YES NO

Is the full matrix panel powered by a bank of batteries in order to convey bright, distinctive messages to the traveling public

YES NO

Are full matrix variable message boards tested by AASHTO's National Transportation Product Evaluation Program (NTPEP).

YES NO

- X7.1 Are batteries automatically recharged by a group of solar panels located at highest point on the unit?** YES NO
- X7.1.1 Is unit designed to have sufficient energy backup to operate for 30 days without any sun?** YES NO
- X7.1.2 Will solar panel generator recharge the battery bank at 2.5 hours sun to one (1) 24 hour period usage?** YES NO
- X7.2 Sign Panel Construction:**
- X7.2.1 Is sign panel aluminum constructed or fabricated with powder coated sheet metal and in a flat black finish** YES NO
- All exposed panels and seams are corrosion proof for a minimum of ten (10) years** YES NO
- With construction, are all panels/parts assembled as to prevent corrosion or to prevent dissimilar metal reaction for occurring** YES NO
- X7.2.2 Is sign panel frame a welded assembly and constructed of aluminum alloy channel or from steel panels powder coated in a corrosion proof manner for a minimum of ten (10) years** YES NO
- X7.2.3 What is length of sign panel 18 inches?**
- X7.2.4 Does face of sign incorporate measures to prevent fading from UV light, such as polycarbonate or lexan face with UV inhibitors incorporated** YES NO
- Is another method used? YES NO Has it been reviewed and approved? YES NO**
- X7.2.5 Does sign face have size to display three (3) separate lines of eight (8) characters** YES NO
- Size of characters: 18 inches tall and 12 inches wide?**
- Spacing of characters: 3 inches apart**
- X7.2.6 Does each character configuration contains 54 LED lamp pixels in six (6) element horizontal by nine (9) element vertical arrangement?** YES NO
- X7.2.7 Each pixel consists of 4 LED'S**
- X7.2.8 Message color: 590 nanometers**
- X7.3 Does sign have capability to display six (6) messages in sequence, with variable timing in 1/4 second increments under computer control?** YES NO

- X7.3.1 Is arrow display and flashing caution functions included as part of the manufacturer's pre-programmed message sequences YES NO
- Will all arrow and flashing caution displays described in the current MUTCD provided YES NO
- X7.3.2 Are all abbreviations used in pre-programmed messages in compliance with the current MUTCD YES NO
- X7.3.3 Does the entire sign have capability to change all lines of message copy in not more than 100 milliseconds YES NO
- X7.3.4 Will sign be clearly visible a minimum of 4500 feet YES NO
- X7.3.5 Will sign legend be legible from a minimum distance of 1,000 feet under daylight conditions as determined by NTPEP for two non-traffic word message. YES NO
- X7.3.6 Will sign legend be legible from a minimum distance of 900 feet under night-time conditions as determined by NTPEP for a two non-traffic word message YES NO
- X7.3.7 Under variable light conditions, will the unit automatically adjust light source so as to meet the visibility requirements, without being too bright or too dim YES NO

X7.4 Solar Message Board Support:

- X7.4.1 Will solar message board sign panel be supported on a telescoping upright member in order to permit raising the sign panel for operation and lowering for transport? YES NO
- Is the upright capable of 360 degrees rotation and to lock into any position to which it manually or electrically rotated YES NO
- X7.4.2 Raise and lower travel: 4 feet and accomplished by a hydraulic power pack YES NO
- X7.4.3 Bottom of sign 7 feet above ground level when in raise position
- X7.4.4 When transporting, will sign orient to the longitudinal axis of the trailer in a manner that effectively reduces aerodynamic drag during towing? YES NO

X7.5 Power and Miscellaneous Equipment:

- X7.5.1 Is unit designed to accept two (2) power sources; one (1) being a battery bank consisting of four (4) size 4D, deep cycle, lead acid 12 volt DC batteries wired in parallel (or as designed to meet power/time requirements) YES NO
- X7.5.2 Does second power supply to have capability to accept existing 120 volt commercial electric service? YES NO

- X7.5.3 Batteries are recharged by a solar panel array producing 240 watts of power
- X7.5.4 Does unit have a built-in battery charger with minimum 25 amp per hr rating? YES NO
- X7.5.5 Is battery bank housed in lockable heavy duty weatherproof battery boxes? YES NO
- X7.5.6 Are the two (2) power sources enclosed in protective housing? YES NO
- X7.5.7 Are batteries capable of being recharged by a commercial 110 volt battery charger? YES NO
- X7.6 Control Requirements:
- X7.6.1 Is unit controlled in all functions by an on-board dedicated computer of solid state design and removable? YES NO
- X7.6.2 Does unit have keyboard which user originated messages may be entered for display or storage? YES NO
- X7.6.3 Does unit have an LCD display screen, where messages are reviewed before being displayed? YES NO
- X7.6.4 Computer stores 400 programmed messages for display when called upon by user through keyboard YES NO
- X7.6.5 Capability of storing 400 message sequences
- X7.6.6 Does unit maintain stored message list? YES NO
- X7.6.7 Does unit provide password coding or key entry? YES NO
- X7.6.8 Will unit provide control programming to present sequences messages under operator control through keyboard entry? YES NO
- X7.6.9 Does unit provide control for moving arrow displays? YES NO
- X7.7 Solar Panel Control Unit:
- X7.7.1 Is computer and power control unit housed in weather resistant, shock resistant lockable control box including lighting for night time operation? YES NO
- X7.7.2 Does power control unit contain two (2) current meters; One (1) shows amperage generated with battery charger operating and one (1) indicates amperage generated from the solar panels be stored in battery bank? YES NO
- X7.7.3 Does power control unit incorporate a PV regulator with thermal compensation for variances in ambient temperature to regulate the charge rate to the battery bank? YES NO

X7.7.4 Does unit incorporate an automatic intensity control feature to keep L.E.D. lamp matrix intensity constant with a reduction in voltage? YES NO

X7.7.5 Does message unit provide a photocell to reduce lamp intensity at night eliminating blinding? YES NO

X7.8 Trailer:

X7.8.1 Is two (2) wheel trailer structurally adequate to serve as both platform for components? YES NO

X7.8.2 Are fenders made of steel and installed over each wheel? YES NO

X7.8.3 Is trailer equipped with hydraulic brake actuator system? YES NO

X7.8.4 Is unit equipped with four (4) crank type, HD industrial leveling jacks; one (1) installed on each corner of the trailer deck? YES NO

X7.9 Lighting:

X7.9.1 Does unit include LED taillights, stop lights, turn signals, license mount with light and all necessary reflectors? YES NO

X7.9.2 Are trailer electrical cable and connector (Cole Hersee Pt #12081 male or equal) compatible with towing vehicles installed? YES NO

X7.9.3 Is all trailer wiring encased in heavy duty hypalon type industrial wire looms clamped to underside of trailer structural tubing? YES NO

X7.9.4 Does unit have two (2) inch ball type trailer hitch 6000 pound capacity with double safety chains in accordance with SAE J684F installed? YES NO

X7.10 Hydraulic Power Pack:

X7.10.1 Does unit have 12 volt DC motor, pump, valve, reservoir, manual hand pump or approved equal? YES NO

X7.11 Message Cabinet Dimensions: (approximate)

X7.11.1 Length: 139.5 inches

X7.11.2 Height: 79.5 inches

X7.12 Central Processing Unit - CPU specifications (Minimum):

X7.12.1 Microprocessor Based 27.1 MHz YES NO

If No, you must specify _____.

- X7.12.2 Power requirements: 20 mA DC at 12 volts DC
- X7.12.3 Specify screen size: 640x480 character lines with 10.4" diagonal characters per line
- X7.12.4 Are interfaces (2) RS232 9 pin D connectors and documentation on port numbers and pins? YES NO

In addition, is one (1) USB port or one (1) ETHERNET Port with USB adaptor provided YES NO

- X7.12.5 Will application source code be delivered with unit YES NO
 OR
 held in escrow YES NO
 and provided to WVDOT in case company goes out of business? YES NO

- X7.12.6 Will technical documentation for unit and for application programs be provided? YES NO

X7.12.7 Features considered as standard equipment but not addressed:

- X7.12.8 Does unit comply with OSHA of 1979 and subsequent amendments? YES NO
- X7.12.9 Will unit be painted manufacturers standard colors and materials YES NO
- X7.12.10 Does unit meet guidelines for advertising? YES NO
- X7.12.11 Will Manufacturer or Dealer provide training and training aids as specified? YES NO

X7.13 Communications:

- X7.13.1 Will unit be guarded from any unwanted outside RF interference which would include but not be limited to VHF/FM receiver, 2 way radio receiver, cell phones etc. YES NO
- X7.13.2 Is each PVMS controlled and monitored by its own sign controller directly from the control console inside the control cabinet on the trailer itself YES NO
- X7.13.3 Is the PVMS sign controller able to receive instructions from and provide information to a computer containing PVMS control software compliant using NTCIP compliant communications modes YES NO

X7.13.4 Remote Communications control via wireless communications with a remotely located computer
 YES NO

Does the system communications backbone, as well as all field modems or signal converters, provide the PVMS sign controller with a RS232 signal having a baud rate between 2,400 bps and 115,200 bps.
 YES NO

Is communications static IP based with a static IP based modem installed on the trailer
 YES NO

X7.13.5 Is local communications control accomplished via direct connection with a laptop computer that is connected directly to the sign control using a null modem connection and baud rate between 2,400 bps and 115,200 bps.
 YES NO

X7.13.6 Is local communications control available via a keypad and LCD interface
 YES NO

Are the features of additional or removal of message or message(s) from the PVMS list of playing messages, adjustment of luminosity to manual or automatic, and the monitoring of miscellaneous data like battery voltage, photocells reading, etc. included
 YES NO



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

**Request for
 Quotation**

RFO NUMBER
7011EC20

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
BUYER 33
304-558-2402

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CASEY INOUE
 AMERICAN SIGNAL
 2755 BAKERS INDUSTRIAL DRIVE
 ATLANTA GA 30360

S
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DIVISION OF HIGHWAYS
 EQUIPMENT DIVISION
 ROUTE 33
 BRUSHY FORK ROAD
 BUCKHANNON, WV
 26201 304-472-1750

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
03/16/2011				

BID OPENING DATE: 04/12/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM NO. 1		
				THIS ADDENDUM IS ISSUED TO PROVIDE A COPY OF THE MANDATORY PRE-BID ATTENDEE SHEET.		
				BID OPENING REMAINS 04/12/2011 AT 1:30 PM.		
				*****END ADDENDUM NO. 1*****		
0001	1	EA		550-96		
				TRAILER MOUNTED SOLAR POWERED MESSAGE BOARD		
				***** THIS IS THE END OF RFQ 7011EC20 ***** TOTAL:		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
-----------	-----------	------

TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
-------	------	-----------------------------------

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

PRE-BID CONFERENCE
SIGN IN SHEET

Request for Quotation Number: 7011EC20 Date: 3/15/2011

Project Description: Trailer Mounted Solar Board

PLEASE PRINT LEGIBLY. THIS INFORMATION IS ESSENTIAL TO CONTACT THE ATTENDEES IN A TIMELY MANNER. FAILURE TO DO SO MAY RESULT IN DELAYS IN YOUR COMPANY GETTING IMPORTANT BID INFORMATION.

Firm Name:	<u>WORK AREA PROTECTION CORP</u>
Firm Address:	<u>2500 Protection Drive</u> <u>St. Charles, IL 60104</u>
Representative Attending:	<u>JOE FORD</u> <i>Joe Ford</i>
Phone Number:	<u>1-800-327-4417</u>
Fax Number:	<u>1-630-307-9270</u>
Email Address:	<u>jford@sciproductsinc.com</u>

Firm Name:	<u>American Signal Co.</u>
Firm Address:	<u>2755 Bankers Industrial Dr.</u> <u>Atlanta GA 30360</u>
Representative Attending:	<u>Casey Inoue</u>
Phone Number:	<u>770.448.6650</u>
Fax Number:	<u>770.448.8970</u>
Email Address:	<u>cinoue@amsig.com</u>

Firm Name:	<u>Logan Corporation</u>
Firm Address:	<u>292 N. Ohio Ave.</u> <u>Clarksburg, WV 26301</u>
Representative Attending:	<u>Joe Dinaldo</u>
Phone Number:	<u>304-641-2011</u>
Fax Number:	<u>304-623-5678</u>
Email Address:	<u>jdinaldo@leganCorp.com</u>

Firm Name:	<u>WVDA</u>
Firm Address:	
Representative Attending:	<u>Kevin Riley</u>
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	<u>Roadsafe Traffic Systems</u>
Firm Address:	<u>4301 1st Avenue</u> <u>Altoona, WV 25143</u>
Representative Attending:	<u>Chuck Adams</u>
Phone Number:	<u>304-539-3881 or 755-1200</u>
Fax Number:	<u>305-397-2836</u>
Email Address:	<u>cadams@roadsafetraffic.com</u>

Firm Name:	<u>WVDOH</u>
Firm Address:	
Representative Attending:	<u>Lamar Cochran</u>
Phone Number:	
Fax Number:	
Email Address:	

PRE-BID CONFERENCE
SIGN IN SHEET

Request for Quotation Number: 7011EC20

Date: 3/15/2011

Project Description: Trailer Mounted Solar Board

PLEASE PRINT LEGIBLY. THIS INFORMATION IS ESSENTIAL TO CONTACT THE ATTENDEES IN A TIMELY MANNER. FAILURE TO DO SO MAY RESULT IN DELAYS IN YOUR COMPANY GETTING IMPORTANT BID INFORMATION.

Firm Name:	<u>WVDOH</u>
Firm Address:	
Representative Attending:	<u>Marianna Lee</u>
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	
Firm Address:	
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	<u>Sherris Scott</u>
Firm Address:	<u>WVDOH Purchasing</u>
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	
Firm Address:	
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	<u>Angie Moorhead</u>
Firm Address:	<u>DOH</u>
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	
Firm Address:	
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	

CMS-T333 Changeable Message Sign

Full Matrix Sign - 3 Lines x 10 Characters



American Signal Company

Catalog No.: AMS30065266



The CMS-T333 from American Signal Company represents the latest advances in ALL-LED sign and highway safety technology. This all LED FULL MATRIX display, utilizing 30 Degree ITE Amber LEDs, combines American Signal Company's SOLAR™ primary power supply, and our high quality trailer assembly to give you the lowest cost and most effective portable/changeable message sign available today.

With the CMS-T333, users have the ability to furnish timely and pertinent traffic information to en-route motorists via text and/ or graphic display, that provides the user with a measure of traffic control, incident management, and congestion mitigation that is unmatched by any other information systems.

Our innovative Dynapoint® Optical Technology in combination with proven ultra-bright, wide angle (30) ITE amber LEDs provide enhanced visibility and legibility in both daylight and nighttime conditions. The wide angle viewing angle allows the sign to be legible at all times when other signs fade out and are unusable.

FEATURES:

- Full Matrix 28 pixels x 50 pixels
- 1 line, 2 line, 3 line messages
- Graphics and Animations
- 18" - 53" characters
- Up to 10 Characters per line
- 9 Font sizes
- SOLAR™ Primary Power Charging System w/ 30 day nominal battery life and onboard AC charger
- Weather tight control cabinet w/ backlit LCD handheld controller
- Sign raise/ lower with electric hydraulic lift w/ manual backup

OPTIONS:

- Remote Control: Cellular, Wireless, or Landline
- Radar Overspeed Detection
- Queue Detection
- NTCIP Compliant/ Compatible
- ITMS Work Zone Compatible
- Graphic User Interface Software
- Highway Advisory Radio
- AIMSTAR™ Adjustable Solar Assembly

COST EFFECTIVE

- SOLR™ primary power charging system
- Energy-Efficient
- Environmentally Sound

LOW MAINTENANCE

- Minimal and simple maintenance
- Long life LEDs
- SOLR™ primary power supply option requires no refueling
- Easily removeable trailer tongue

BUILT TO LAST...

- Can be used in inclement weather

EASY TO USE

- User-friendly Interface
- Local and/or remote sign control
- Messages are easy to create and modify



American Signal Company
2755 Bankers Industrial Drive
Atlanta, GA 30360
770-448-6650 • info@amsig.com
www.amsig.com

*** specifications subject to change with technology

PHYSICAL/MECHANICAL

- Height (raised) 162" / 4.1m
- Height (storage) 109.3" / 2.8m
- Length 188.3" / 4.8m
- Trailer Width 79.5" / 2.0m
- Sign Case Height 79.5" / 2.0m
- Sign Case Width 137" / 3.48m
- Sign Raise/Lower electric-hydraulic w/ manual backup
- LED Operating Temp -22.0° to +165° F / -30° C - -73° C
- Electronics Temp. Rating -30° to +165° F / -34° C - 73° C

ELECTRICAL / LED DISPLAY

- Update Speed- Variable Timing .10 sec increments
- LED Color 590nm ITE Amber/ Yellow
- Character Size / Height 18" / 457mm
- LEDs Per Pixel 4 x 30° LEDs
- Matrix Type Full Matrix
- Matrix Size 5 x 7 per character module

CONTROL/OPERATION

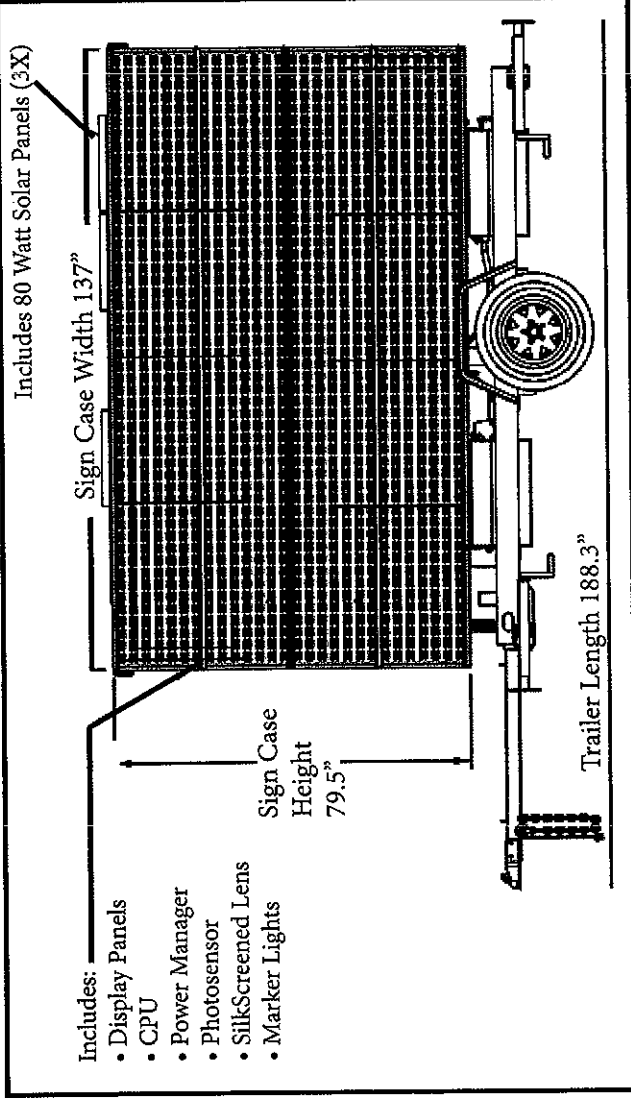
- Control Console Display Backlit LCD
- Pre-Programmed Messages 199
- User-Defined Messages 199
- Message Sequences 250

SOLR™ PRIMARY POWER CHARGING OPTION

- Battery Life 30 Day Standard Configuration
- Land Power On-board charger recharges battery pack

GRAPHICS AND LEGIBILITY

- Our LED design provides outstanding legibility in all weather conditions, with wide angle visibility.
- 199 factory pre-programmed MUTCD Compliant Messages
- 199 user-defined messages permit infinite range for all applications
- Over 1200' of legibility

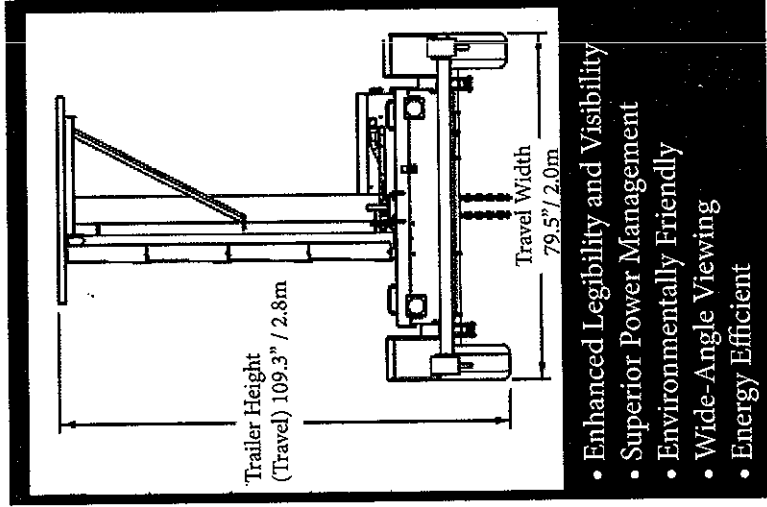


OPTIONS:

- Remote Control: Cellular, Wireless, RE CDPD, Landline
- Radar Overspeed Detection
- Radar data logging and graphing capability
- NTCIP Compliant / Compatible
- Queue Detection
- ITMS Work Zone Compatible
- Graphic User Interface (GUI) Soft
- Highway Advisory Radio (HAR)
- 2" ball or lunette eye hitch w/ adjustable height

ADDITIONAL FEATURES:

- Weather tight control cabinet with back lit LCD handheld controller
- Dynapoint® Optical Technology provides enhanced visibility and legibility in both day and night



2755 Bankers Industrial Drive
Atlanta, GA 30360
Phone: 770-448-6650
Fax: 770-448-8970

CMS-T300 Series™
Solar Charged, Battery Powered All LED
NTCIP Compliant Portable Changeable Message Sign

SCOPE

This specification defines the characteristics and features of a portable changeable message sign. This system allows the user to display a message on a sign display to inform motorists and the traveling public of oncoming road conditions and advisories. The display format for the sign display may be Character, Line, or Full Matrix. The sign is battery powered with both solar and 110 VAC charging systems. These portable signs can also be used as a platform and power source for many Intelligent Transportation System (ITS) devices.

GENERAL

MESSAGE SIGN DISPLAY

Description: The display formats available: Character, Line, or Full Matrix. Each display format shall be configured of all light emitting diode (LED) with each having an operational characteristics of Amber 590nm LEDs with a 30° cone of angularity.

Character Matrix (Model CMS-T331): The display shall consist of three lines, each of which shall contain eight display panels. The display panels shall be uniformly spaced horizontally across the display face with a physical space of 3.6-inches between adjacent panels. Each line is vertically separated by a space of 6-inches. A 6-inch contrast border is located at the top, bottom, and both ends of the display.

Line Matrix (Model CMS-T332): The display shall consist of three lines, each of which shall contain fifty (50) vertical pixel columns. Each line utilizes ten display panels in a continuous line matrix. The display panels in each line shall be mounted horizontally across the display face such that there are 50 equally spaced columns on 2.7-inch centers by 7 pixel rows. Each line shall be separated vertically by a physical space of 6-inches. A 6-inch contrast border is located at the top, bottom of the display.

Full Matrix (Model CMS-T333): The display shall consist of an LED pixel matrix comprised of 28 continuous rows by 50 continuous columns. Each pixel is spaced 2.8-inches vertically and 2.7-inches horizontally. The full matrix display consists of forty (40) identical and interchangeable panels without computer modifications.

ELECTRICAL:

Display Panels: Each display panel shall be nominally 19.4" in height and 12.6" in width. Display panels shall be 100% solid state with no moving parts and shall be identical to, and mutually interchangeable with, all other panels; no field hardware or programming modifications shall be required to exchange or replace individual display panels. The pixels on each display panel shall be arranged in a matrix of 5 columns by 7 rows with the pixels spaced on 2.80" centers vertically by 2.70" centers horizontally. Each panel shall be able to monitor and determine pixel failure. Pixel failure will be represented on host software and local control system identifying location of failed pixel. Controller display will be in WYSIWYG format, (What You See Is What You Get.).

Pixel: An individual pixel shall consist of four Dynapoint™ lens enhanced LED's spaced on 1.0" centers both vertically and horizontally. The LED's shall be ITE amber wide angle providing for both daylight and nighttime legibility and shall be rated for a service life of 100,000 hours, and shall have an operating temperature range of - 40° F. to + 165° F.

General Characteristics:

Number of Pixels: 35 standard, 7 pixels rows, 5 pixel columns

Number of LED's per pixel: 4 standard

Operating Voltage: 12VDC nominal

Brightness Control: Pulse width modulation

Current Limiting: One external resistor per driver

Pixel Feedback: Differential amplifier per pixel (where provided)

Feedback Logic: CPLD on-board

Column Decoding: CPLD on-board

Optics: Dynapoint™ Lens System

LED Driver: Power shift register technology with programmable current limit

Temperature Range: -40° F to +165° F

CPU:

- Processor: 32 bit 300 MHz minimum
- RAM Memory: SDRAM SIMMS in any configuration from 64M to 1G
- Flash Memory: Compact flash modules from 64M to 1G
- Ethernet Port: at least two 10/100bT
- Temperature Range: -49°F to +185° F
- Serial Port(s): at least 2, RS232 (Comm1 and Comm2)
- Digital I/O: at least one port of eight lines, configurable as input or output
- PCB Form Factor: PC104
- Architecture: Embedded PC
- Display: VGA and/or LCD
- Keyboard – PS2
- Mouse: PS2
- Power Requirements: +5VDC (low current +12VDC)
- Unit form factor: 1.5RU or 2RU depending on requirements
- Additional Ethernet port
- Additional Serial Ports (Comm3 and Comm4)
- AC97 Audio Codec
- IDE Port for Disk Drive
- PC104+ port for expansion cards
- USB Port
- Additional Digital I/O Port

Data Distributor:

The data distributor board formats and renders messages based on the incoming packets from the CPU. The data distributor also reads the pixel information from the display boards and sends that information to the CPU. The pixel feedback enables any host application that communicates with the CPU to generate a WYSIWYG interface. If a pixel has failed, the user will know it, since the host display will show the failed pixel.

Telemetry Card:

The telemetry card provides system housekeeping functions. It connects the system via the 10/100bT Ethernet network. The telemetry card performs the following functions:

- Monitors battery current up to 90 amps
- Monitors battery voltage up to 20 volts
- Provides digital input for photo sensor (ambient light measurement)
- Spare A/D input
- Four auxiliary digital inputs / outputs
- Solar Charge Control Relays (2)
- Connection for other 12 volt electronics

Technical Specifications:

- Processor: 66MHz Motorola Coldfire 32 Bit
- Flash Memory: 2M x 8
- SDRAM: 2M x 32
- Ethernet Port(s): (2) 10/100bT
- Ethernet Switch: basic layer 2, standalone
- A/D Inputs: 4
- Form factor: Amsig. Proprietary
- Power Requirements: 9 – 16 VDC, +12VDC nominal
- Temperature Range: -40°F to +185°F
- Digital I/O: Four inputs / outputs
- Solar Charge Control: Relays for two panels
- Temperature Monitor: Digital on-board

CONTROL & OPERATION:

Description: The CPU shall consist of a single printed circuit board, which shall contain all of the sign message memory as well as the sign operating software. The CPU shall be conformal coated, 100% solid-state unit with no moving parts or switches. It shall be operable in 0-95% non-condensing humidity conditions at temperatures from -30 degrees F to +165 degrees F. Message memory shall be retained during power interruptions or failures, and the CPU shall be capable of operating the sign system in the event that the keyboard controller is disconnected.

MESSAGE SIGN CONTROLLER TERMINAL

Controller Description: The controller shall utilize

- Standard PC104 QWERTZY keyboard w/ integrated mouse.
- Full Color quarter VGA LCD screen capable of displaying and mimicking display.

MESSAGE SIGN OPERATING SYSTEM

Description: The sign operates through a menu driven system which allows the user to input commands using standard keystrokes to generate messages, message pages, review diagnostics, and generate operation schedules. The sign operating system shall perform the minimum items:

Password Protected: Multi-levels, User, Maintenance / Factory Diagnostic

NTCIP Compliant V1203 standard objects

Sign Diagnostics

Battery Voltage

Charging Voltage (Landline & Solar)

Individual Pixel Feedback

Component Failure Status

Adjust Brightness levels

Message Scheduling

Additional component use (e.g. Radar, Cellular)

SYSTEM POWER SOURCE

Description: The 12 VDC power source for the system shall be a battery pack charged primarily by a solar array that provides virtual autonomy for the system. A 110 VAC charging system is also standard on all units and available for landline operation of the system. Control of the sign power supply shall be provided by a power management system that shall regulate the charging of the batteries by the solar charging system, and shall provide for temperature compensation, regulation, and distribution of power to the various sign functions. The charging of the 12 VDC power source batteries shall be independent of the position of any switch on the control panel.

Battery Pack: The battery pack shall consist of 6VDC deep cycle golf cart type lead /acid batteries (BCI Group GC-2) that when in a fully charged condition shall provide sufficient electrical energy for the continuous and proper operation of the sign system for a nominal period of twenty-one days without the necessity of recharging. Warranty service for the batteries shall be locally available on a nationwide basis from the batteries manufacturer.

Charging: The sign system shall be equipped to provide for the charging of the 12 VDC power source batteries by either a solar charging system, or alternatively, by a 110 VAC charging system.

Solar Charging System: The solar charging system shall consist of a photovoltaic array mounted at the top of the sign case and a power management system. The system shall provide regulated, "on demand" charging consistent with battery condition, with the ambient solar luminance at the photovoltaic array, and with net power consumption within the sign system. Charging of the batteries shall be independent of the position of any switch on the control panel. Initiation of 110 VAC charging service shall completely disconnect the solar array from the charging circuit.

Aimstar™ Adjustable Solar Assembly (Optional): The solar charging system shall be adjustable to be positioned, regardless of the direction of the sign display, by the user to be angled towards the Southern Hemisphere. The positioning of the solar assembly allows the power system to achieve an increased collection rate of solar power throughout normal daylight operation. This provides a 40% to 50% more efficient recharge rate to the batteries than utilizing a non-adjusting solar assembly.

110 VAC Charging System: The 110 VAC charging system, supplied as standard equipment, shall consist of a temperature compensating, 110 VAC input battery trickle charger, an ammeter for monitoring the charging process, and an electrical receptacle mounted on the control pedestal. The system shall be configured so as to initiate charging of the power supply batteries when the 110 VAC service is connected without the necessity of operator intervention, and shall be capable of completely charging the battery pack within a 24 to 72 hour time period. The actual charging time will vary depending upon conditions and state of charge/discharge of the batteries.

MESSAGE SIGN CENTRAL PROCESSING UNIT

FONT TABLE

CMS-T331 – Character Matrix

Font	Nominal Height	Nominal Width	Characters per Line	Lines per Display	Legibility Distance
4 x 7	18"	10"	8	3	1,000'
5 x 7	18"	12"	8	3	1,250'

CMS-T332 – Line Matrix

Font	Nominal Height	Nominal Width	Characters per Line	Lines per Display	Legibility Distance
3 x 7	18"	8"	12	3	900'
4 x 7	18"	10"	12	3	1,000'
5 x 7	18"	12"	10	3	1,250'

CMS-T333 – Full Matrix

Font	Nominal Height	Character/Line	Lines/Sign Face	Legibility Distance
4 x 7	18"	8	3	1,250 ft.
5 x 7	18"	8	3	1,300 ft.
5 x 7 W	18"	7	3	1,350 ft.
7 x 7	18"	7	3	1,375 ft.
7 x 7 W	18"	6	3	1,400 ft.
6 x 11	28"	6	2	1,500 ft.
7 x 20	53"	5	2	1,900 ft.
9 x 20	53"	4	1	2,200 ft.

W = Wide Stroke, Additional pixel of blank space between character

PHYSICAL SIGN & TRAILER CHARACTERISTICS

Description: The sign case and trailer frame shall be completely designed and fabricated from metal. The sign case shall be aluminum and the trailer frame shall be steel. An electric hydraulic mast is supplied to raise the display from travel mode into display mode. A backup hand-pump for the hydraulic mast is required. The display shall have a silk-screened polycarbonate lens system to improve conspicuity of display in standard operation conditions.

Sign Case: The sign case shall be of all aluminum construction fabricated utilizing ASTM B 209 6063-T5 and 6061-T6 aluminum extrusions and 3003-H14 aluminum sheet material with aluminum and/or stainless steel fasteners and plastic lenses. The case shall be 137.75 “ in width (139.75” with running lights), 79.5” in height, and nominally 6.2” in thickness.

Lenses: Polycarbonate lenses shall serve as the front of the sign case (three lenses for CMS-T331 and T332 models, 4 lenses for CMS-T333 model) and shall be removable by sliding to either side to facilitate ease of internal service. The lenses shall be 3/16 “ in thickness per accepted plastics industry convention, shall be suitably stabilized to resist degradation due to exposure to ultraviolet (UV) radiation. The lens shall have the front surface screened with a flat black ink to reduce glare from ambient solar illumination or from vehicle headlights. The screening pattern shall be consistent with the position of the LED pairs in the display and provide for the viewing of only the illuminated pixels during message display.

Description: The mounting post shall support the sign case in a vertical position and serve as an integral part of a system facilitating the vertical and rotational movement of the sign case. The post assembly shall consist of two concentric round steel tubes, the inner (lower) being 5 1/2” OD x 3/8” wall steel (ASTM A 513), and the outer (upper) 6” OD x 3/16” wall. The post assembly and attendant hydraulic cylinder shall enable the operator to raise the bottom of the sign case to a minimum height of 7 feet above the surface of the roadway, and to rotate the sign case through 360 degrees. A positive brake assembly shall be provided to prevent unwanted movement once the sign case is in the desired display position. A mast safety pin shall be provided to prevent the sign case from falling in the event of a hydraulic system failure.

Hydraulic System: A hydraulic cylinder shall be encased within the inner (lower) portion of the post assembly and shall be used to raise the outer (upper) portion and attached sign case. The cylinder shall be driven by an electrically powered hydraulic pump (with attached fluid reservoir) controlled by the UP/DOWN toggle switch on the control panel. The hydraulic system shall include an auxiliary manual pump with release for emergency use.

TRAILER

Description: The trailer shall be nominally 197 inches in length with the removable tongue in place and 79.2 inches in width; shall be constructed of 3”x3” and 3”x 5” steel tube (ASTM A36) with 3/16 “ wall thickness, and shall be welded in accordance with applicable American Welding Society (AWS) standards. The trailer shall have a lockable, internally illuminated, weatherproof equipment cabinet housing the keyboard terminal and control panel. The trailer shall also have a lockable pump housing for the hydraulic pump, and two lockable battery boxes (front/rear) for the power source batteries. The trailer shall have a

single axle with dual axles as an option, and a fixed height ball hitch (fixed height tow ring and adjustable height ball or tow ring hitches optional).

Rating: The trailer and springs and axle shall be rated for 3500 pounds. The removable tongue assembly with hydraulic surge brakes shall be constructed from 3" x 3" steel tube (ASTM A 36) with 3/8" wall thickness, rated for 6000 pounds, and fitted with a 2" ball hitch. Wheels shall be 15" steel with 5 lug bolts per wheel and fitted with P 205-75-15 B rated tires.

Removable Tongue: The removable tongue shall have safety chains attached. No tools shall be required for removal or remounting of the tongue; it shall not be necessary to disconnect any hydraulic brake lines to effect complete removal, and it shall not be necessary to bleed the brake system upon re-installation of the tongue.

Leveling Jacks: The trailer chassis shall have at each corner a 2000-pound leveling jack affixed in such a manner that the jacks may be readily placed and locked in a horizontal position for traveling without necessitating the use of any tools. The trailer and sign assembly, when stationary and supported properly with the leveling jacks shall withstand AASHTO rated 100 MPH wind gusts.

OPTIONAL EQUIPMENT:

Description: The sign may be equipped with various Intelligent Transportation System (ITS) devices to provide for remote operations, sensor control or activation, and conditional response.

Remote Communications: The sign system shall be equipped so as to provide for host computer/remote sign interaction through either a landline telecommunication / modem link.

Amsig.NET™ Software: The Amsig.NET Host software package shall enable the sign to be contacted via users choice of remote communication. This software is found to be compliant with all current versions of Microsoft's Windows. In addition this software is presented in a graphical user interface (GUI) format allowing the user to select the appropriate sign on the screen for communications.

Radar Transducer: A Doppler effect microwave radar transducer can be outfitted to the message sign to provide the sign with added traffic calming capabilities. These abilities include: Instantaneous speeds of front most and fastest target or activation of an over-speed sequence, which automatically interrupts current sequence.

Radar Data Logging Capability: Sign used in conjunction with Radar Option and Cellular Communications Software Option can be utilized to collect traffic data such as average speeds, 85th percentile, 50th percentile, and average # of cars. All data is presented in graph format accessed within the software.

Voicestar™ Highway Advisory Radio: The sign may be outfitted with an optional Highway Advisory System which broadcasts an audio message on the AM band in either low or high frequency.

Aimstar™: This option outfits the signs with an adjustable solar assembly. Through positioning the solar assembly aimed toward the southern hemisphere, the unit is able to receive an increased rate of charge for the battery bank.

Queue Detection: American Signal Changeable Message Signs are able to be paired with an American Signal Queue Detection Trailer and connected wirelessly to be able to instantly display a condition responsive sequence of messages pre-set by the user.

Integrated Traffic Management Solution (ITMS): Any of American Signal Company’s message signs or sign systems can be integrated to work within our ITMS system. This self-activating system of multiple sensor and sign systems runs continuously and is guided by complex traffic algorithms. The algorithms are used to determine any alteration in the flow of traffic throughout the system. When a change is sensed, the central controller automatically updates the complete system to display and broadcast correct up-to-the-minute information.

Miscellaneous: American Signal is able to meet the users needs for additional hardware items. We are able to provide any hitch type (Ball, Pintle or Lunette Eye, Bulldog, Adjusting Height, etc...), axle type, lift requirements, color specifications, alarms, etc.

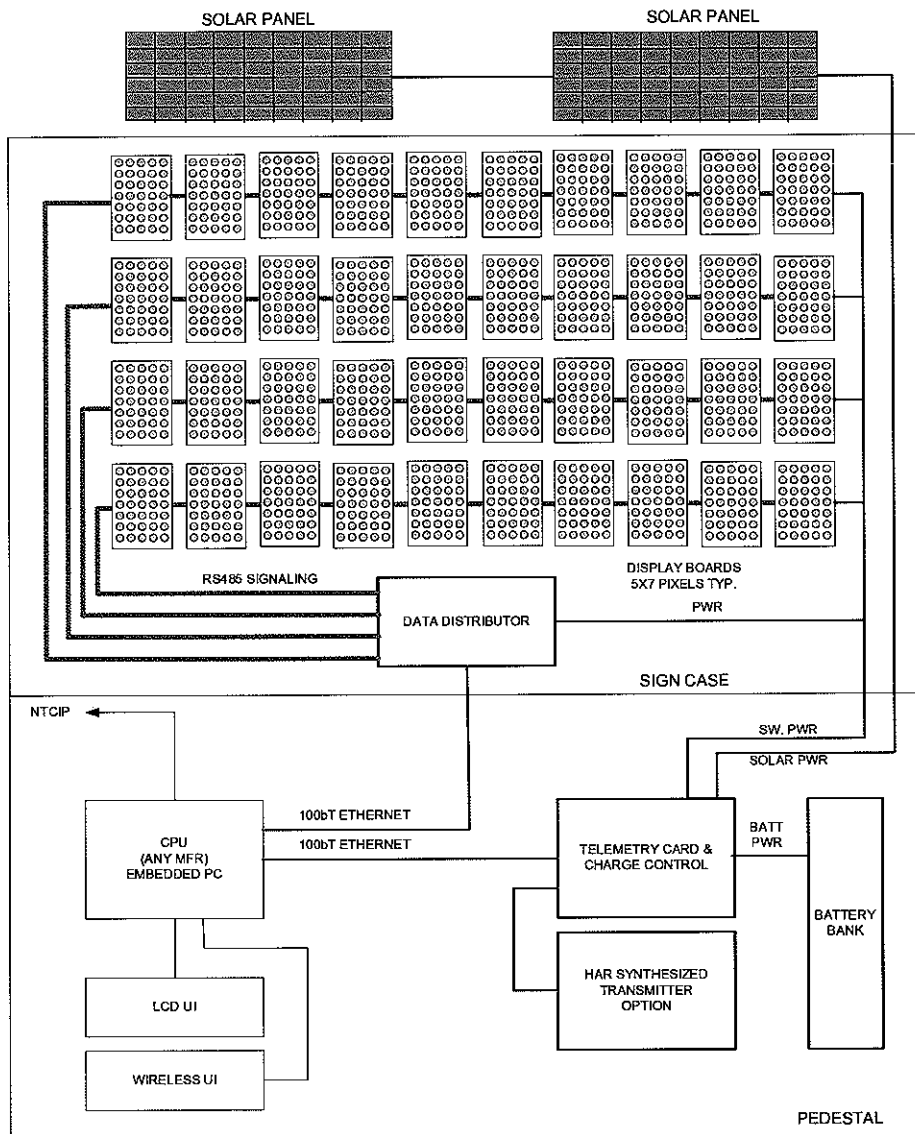


FIGURE #3 - REVISED TRAILER ARCHITECTURE BLOCK DIAGRAM



AMERICAN SIGNAL COMPANY

*2755 Bankers Industrial Drive
Atlanta, GA 30360
Phone: 770-448-6650
Fax: 770-448-8970*

RFQ 7011EC20

Standard Warranty Supplement

The following standard warranty from American Signal Company will yield to Section 6.5 of the above RFQ in all areas where the language may conflict.

A handwritten signature in black ink, appearing to read "Casey Inoue". The signature is fluid and cursive, with a large initial "C" and "I".

Casey Inoue
Northern Region Sales Manager
American Signal Company

AMERICAN SIGNAL COMPANY

AMERICAN SIGNAL COMPANY AmSig® Limited Warranty

Limited Warranty. AmSig warrants all portable changeable message signs and highway advisory radio systems against manufacturing defects in materials and workmanship for one year from the date of shipment from AmSig's factory. Within this period AmSig will repair or replace equipment returned to the factory prepaid, without charge for parts and labor. After repair or replacement, AmSig will ship the equipment back to the Buyer by the same mode or type of delivery used by the Buyer to send the equipment to AmSig (overnight courier, same class of mail or UPS delivery, freight line, etc).

This limited warranty does not cover (a) damage or failure caused by or attributable to acts of God, abuse, misuse, improper or abnormal usage, faulty installation, improper maintenance, lightning or other incidents of excessive voltage; (b) any repairs other than those provided by an AmSig authorized service facility; or (c) transportation costs other than as provided above; (d) damage or failure caused by any difficulty or impairment in the ability to calculate and compare the date data between the twentieth and twenty-first centuries (commonly known as the "Y2K" problem) or to recognize leap years-all such date related problems are addressed in the Section entitled "Year 2000 Warranty".

Certain components of the equipment are covered by warranties from manufacturers other than AmSig. Copies of those warranties will be delivered to the Buyer along with the equipment AmSig has no liability for and does not provide warranty service for these items, which include engine, battery or batteries, battery charger, hydraulic pump system, tires, wheels, axles, brakes, and trailer hitch (if any). The Buyer should consult the applicable manufacturer for a specific warranty regarding a specific component. AmSig's limited warranty does not cover any damages to parts otherwise covered by AmSig's limited warranty if and to the extent that such damages are caused by or result from a defective or malfunctioning item warranted by another manufacturer

AmSig's limited warranty obligation shall be automatically suspended upon the Buyer's failure to pay any obligation owed to AmSig according to the terms agreed upon between them (whether pursuant to this Quotation or any other agreement between them). Such suspension shall continue until the Buyer has paid such obligation in full. Notwithstanding the foregoing, AmSig shall honor its limited warranty obligation for any equipment that has been sold by the Buyer, unless the owner of the equipment is in default under any obligation to pay the Buyer for such equipment

YEAR 2000 WARRANTY

In addition to the foregoing, AmSig warrants to owner that its products sold hereunder, in the form delivered by AmSig, will without impairment in the functioning of the product, be able to calculate and compare date data between the twentieth and twenty-first centuries, and will recognize the year 2000 as a leap year. However, this limited Year 2000 Warranty shall apply if (i) AmSig's products are used properly and in accordance with the documentation provided by AmSig, (ii) all associated products, such as, but not limited to hardware, software, and firmware, used in combination with the product exchange date data with AmSig's products, and (iii) AmSig is provided with written notice of a defect or other problem claimed under this limited Year 2000 Warranty within one (one) year of such shipment of said AmSig product.

As owner's sole and exclusive remedy under these warranties, AmSig shall, in its sole discretion either (i) provide services to repair a nonconformity with these limited warranties, or (ii) replace the nonconforming component of its product. THE FOREGOING IS OWNER'S SOLE AND EXCLUSIVE REMEDY FOR BREACH OF THESE WARRANTIES.

EXCEPT AS PROVIDED ABOVE, AmSig MAKES NO EXPRESS WARRANTIES. FURTHER, AmSig MAKES NO WARRANTY OF MERCHANTABILITY AND NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSES WHATSOEVER WITH RESPECT TO THE EQUIPMENT BEING SOLD.



AMERICAN SIGNAL COMPANY

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Exceptions to Non-Mandatory Specifications

- 7.2.6 Unit to be bid incorporates a five element horizontal by seven element vertical arrangement.

State of West Virginia
VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. **Application is made for 2.5% resident vendor preference for the reason checked:**
 Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,
 Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,
 Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2. **Application is made for 2.5% resident vendor preference for the reason checked:**
 Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3. **Application is made for 2.5% resident vendor preference for the reason checked:**
 Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4. **Application is made for 5% resident vendor preference for the reason checked:**
 Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**
 Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**
 Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (*West Virginia Code*, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: American Signal Company Signed: [Signature]
 Date: 4/8/11 Title: Regional Sales Manager.

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

RFQ No. 7011EC20

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, Limited Liability Company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: American Signal Company

Authorized Signature: [Signature] Date: 4/8/11

State of GA

County of Gwinnett, to-wit:

Taken, subscribed, and sworn to before me this 8 day of December, 2011.

My Commission expires 12/9, 2013.

AFFIX SEAL HERE

PATRICIA GYGER
Notary Public, Gwinnett County, Georgia
My Commission Expires Dec. 9, 2013

[Signature]