

Delaware Department of Transportation  
**QUESTIONS AND ANSWERS**  
**DOT1307-VARSPDLMTSIGN**  
**VARIABLE SPEED LIMIT SIGNS**  
**Tuesday, May 14, 2013**

Q #	Question	Answer
35	Item 4001 - Technical Assistance and Telephone Support The description for this training states that Technical Assistance and Support shall be procured on an initial three (3) year basis yet the bid form has an hourly charge. Does this mean DelDOT will use the hourly charge for three years and the renegotiate if necessary?	Response forthcoming.
34	Item 2001 – VSLs Application Software Central control from the DelDOT TMC is inferred above. What aspects of the application software are to be the responsibility of the sign vendor?	Response forthcoming.
33	Technical Specifications 5.5 Follow-up/Refresher Training Requirements A. Will the refresher course(s) be paid the amount one-hundred percent (100%) of the accepted Contract unit bid price for each installation, operations, maintenance, and support training program offered? Is a separate bid item required for the refresher course(s)?	Response forthcoming.
32	Technical Specifications 5.3 Operations Training Requirements (1) and (3): What remote operations training will the vendor be responsible for?	Response forthcoming.

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31	<p>Technical Specifications 5. Training</p> <p>There is not a bid item listed for the support training referenced in this paragraph. Will the support training be part of the maintenance training?</p> <p>Will additional training requested be paid the amount bid for the initial training sessions?.</p>	Response forthcoming.
30	<p>Technical Specifications 5. Training</p> <p>Can the onsite installation, operations, maintenance, and support training be scheduled on consecutive days? Or should we assume separate visits will be required?</p>	Response forthcoming.
29	<p>Technical Specifications 5. Training</p> <p>What do you mean by a modified VSLS? Will onsite training be required for any modified VSLS purchased later in the project via an individual Purchase Order?</p>	Response forthcoming.
28	<p>Technical Specifications 3.5 Transportation Management Center Communications</p> <p>A. This paragraph seems to be in direct opposition to 2.2 which clearly states that the department will supply all communication devices beyond the serial or Ethernet port. Would you please clarify?</p> <p>If the contractor is to provide these items, will the list of equipment for the required communications methods be available prior to the bid date? Cell modems, fiber interfaces, radios etc. This information will be required for bidding. If radios are required, what is the minimum range requirement?</p>	Response forthcoming.

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27	Technical Specifications 3.4.1 Sign Controller Communications Interface 2) We recommend local field control be done via the Ethernet port, not a 232 port, as notebook computers no longer are supplied with these connectors. Is this acceptable?	Response forthcoming.
26	Technical Specifications 3.4 VSLS Controller C. Is the message referred to here the two speed digits only?	Response forthcoming.
25	Technical Specifications 3.3 Optical, Electrical, and Mechanical Specifications for Display Modules ‘A. Do you intend to do board-level repair on conformal-coated surface-mount devices, or rely on the manufacturer to provide fully-assembled and tested replacement boards if required?	Response forthcoming.
24	Technical Specifications 3.2 LED and Pixel Specifications P. By commercially available components, does this include board-level components on the printed circuit boards, or the components other than PCBs and their parts?	Response forthcoming.
23	Technical Specifications 3.2 LED and Pixel Specifications J. Low-voltage low-power devices are typically not required to have UL listing. The AC power portions, however, would be subject to UL listing and in our case the UL marked AC supply enclosure is separate from the display module. Is this acceptable?	Response forthcoming.
22	Technical Specifications 3.2 LED and Pixel Specifications H. Do you mean “decrease in performance” or “decrease in intensity” in this paragraph?	Response forthcoming.

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21	Technical Specifications 3.2 LED and Pixel Specifications F. Typical supply voltages, and indeed solar power systems, operate at voltages between 11.5 and 16.0 volts DC, which is normally referred to 12VDC Nominal. Is this range acceptable?	Response forthcoming.
20	Technical Specifications 3.2 LED and Pixel Specifications E7 . Many of today's PCBs are assembled densely enough to eliminate the option of component identifiers for all components. Is this acceptable?	Response forthcoming.
19	Technical Specifications 3.2 LED and Pixel Specifications E6. Is conformal coating of SMT LEDs acceptable?	Response forthcoming.
18	Technical Specifications 3.2 LED and Pixel Specifications E5. Is remote and local NTCIP control of brightness acceptable, or do you absolutely require a rear-panel control? We have found any externally-accessible tactile controls to be prone to field damage.	Response forthcoming.
17	Technical Specifications 3.2 LED and Pixel Specifications E3. Do you intend to do board-level repair of conformal-coated surface-mount technology components?	Response forthcoming.
16	Technical Specifications 3.2 LED and Pixel Specifications E2. Are non-cluster designs acceptable, and is a higher resolution interleaved line matrix acceptable?	Response forthcoming.

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15	Technical Specifications 3.2 LED and Pixel Specifications E. Optical and Electrical Characteristics E1. Are other latest-generation LED technology than AlInGaP acceptable?	Response forthcoming.
14	Technical Specifications 3.2 LED and Pixel Specifications 'A. Cabinet dimensions vary by manufacturer, are the actual dimensions a hard requirement? Also, would you be open to a modular design with a replaceable display cabinet instead of internal access from the front?	Response forthcoming.
13	Technical Specifications 3. Materials 3.1 VSL Sign and Housing Requirements C. Are the calculations and details signed and sealed by an Engineer required with the bid submittal or after the contract award?	Response forthcoming.
12	Technical Specifications 3. Materials 3.1 VSL Sign and Housing Requirements B. Same question as 2.1.B - are all these items required to be present if our design does not require them?	Response forthcoming.
11	Technical Specifications 2. Requirements for VSL 2.4 Software Interfaces What are the acceptable forms of NTCIP testing and proof of compliance accepted by DelDOT? Will DelDOT provide a test suite?	Response forthcoming.

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10	<p>Technical Specifications 2. Requirements for VSL 2.2 Communications Interfaces</p> <p>Will the possible communications topologies be made public prior to the bid due date?</p>	Response forthcoming.
9	<p>Technical Specifications 2. Requirements for VSL 2.1 General</p> <p>B. Is this a required list? Some of the components listed are not required with our design. We have an alternate design to manage contrast and light so we do not require a sun visor or contrast shields. Additionally, fans are not required with our low-power design. Will alternative designs be accepted?</p> <p>Each VSL shall be equipped with LED display module, sign controller, sun visor, contrast shields,</p>	Response forthcoming.
8	<p>Technical Specifications 1.1 Concept of Operations</p> <p>J. Does the sign need to keep a schedule of its own, or is the TMC to be used at all times to send display digits to the sign? Also, by 'messages' are you referring to speed digits only, or additional alpha or numeric messages?</p>	Response forthcoming.
7	<p>Technical Specifications 1.1 Concept of Operations</p> <p>H. Will DelDOT accept white-only LEDs since the digits are white? There are new technologies in white LEDs that do not require color mixing. We no longer use multi-color LEDs because new technology white only LEDs are both longer lasting and more efficient.</p>	Response forthcoming.

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6	Special Provision 11. Mandatory Insurance Requirements 1) Is liability insurance required for this contract since it is a furnish material only bid?	Response forthcoming.
5	What “existing center-side NTCIP Compliant client software” does the Department have to control the system?	It is called OpenVMS. Today it controls four different manufacturers’ VMS boards at DelDOT.
4	How will the sign be mounted? i.e. Pole, Post etc.....to determine what type of mounting bracket will be required.	Response forthcoming.
3	Is a contract bond required?	No. (Page 14, No. 9 and 10)
2	Is DOT 1307 contract restricted for bid to only Women Business Enterprise (WBE), Minority Business Enterprise (MBE) or Disadvantaged Business Enterprise (DBE) companies certified in the State of Delaware?  Attachment 7 of DOT 1307, Office of Supplier Diversity Certification Application, contains instruction to complete Diversity Certification Application and return to Office of Supplier Diversity (OSD) for certification or re-certification.	No.  Attachment 7 is provided for information only. There is no requirement to return it with the bid, nor any requirement for WBE, MBE, or DBE certification.
1	Is there a deadline for submitting technical questions on the above bid?	The deadline for the receipt all questions regarding this Invitation to Bid is 5:00 p.m., Wednesday, May 15, 2013.