

Ohio Department of Transportation

Prebid Questions

Project No. 060123

Sale Date - 3/29/2006

Question Submitted: 2/21/2006

Question Number: 1

Item 115, Controller Item, Misc.: Video Detection Unit

The wording throughout the specification for this item refers to the complete video detection system including cameras (or MVP's) mounting brackets, cabinet hardware, cables and connectors, see page 9 of 137 and not individual cameras (units)

The proposal and summaries have this item by "unit" broken down into a number of individual cameras at an intersection.

It would be more consistent with the specification if the unit was for the entire video detection system at each intersection. The contractor/supplier would be required to provide the correct number of cameras and cabinet hardware necessary to provide the video detection objective as detailed in the plans for each intersection.

We are requesting an addendum be issued to change the video detection unit to a complete video detection system. Each intersection would have a single, quantity of 1 Video Detection System, complete and in place including all hardware, MVPs' (cameras) mounting brackets, cables and connections tested and accepted.

This approach is then consistent with the States proposed specification for a complete video detection system and not individual cameras and cabinet hardware

The plan note for this item clearly indicates how this will be paid for. The District Construction Office (Project Engineer) is in agreement with this method of payment. Please bid this as is.

Question Submitted: 2/21/2006

Question Number: 2

Please add a pay item for video detection cable, rather than including the cable in the detector item, since all other signal cable is paid by the linear foot.

The plan note for this item clearly delineates how this item is to be paid for. The District Construction Office is in agreement with the payment for this item. Please bid as is.

Question Submitted: 2/21/2006

Question Number: 3

Several areas of walk removal and replacement (ref #1, and ref #8) are in brick surfaced areas. The work required in these areas is quite different from regular 100mm concrete walk. Please consider adding a reference number for the work in brick surfaced areas.

The plan notes and pay items clearly indicate how this is to be handled on the project. The notes for walk removed and Restoration of disturbed areas and 100mm concrete walk show that the brick areas are to be considered incidental to the pay items. Please bid as is.

Question Submitted: 2/21/2006

Question Number: 4

The Maintaining Traffic item includes temporary bituminous walks where directed by the engineer. Please consider adding a pay item for temporary walks, as it is not possible to predict where the engineer will direct this work.

The temporary bituminous walk, due to the project type, will be used in limited areas. Please bid as is.

Question Submitted: 2/21/2006

Question Number: 5

Please clarify the note regarding conduit jacked or drilled: is conduit conforming to 725.04 in fact what is desired, or can the specification be opened up per CMS 625.14 in the 2005 CMS? Also, please clarify the reference to 625.12(D).

Question Submitted: 2/6/2006

Question Number: 6

We would like to get a copy of addendum #2 for this bid
opening 2/10/06
Thank you

Question Submitted: 3/1/2006

Question Number: 7

Ref. #60 Loop Detector Unit, 2-Channel, APP:
The specifications for this item on page 6/137 requires the 2nd channel to be used for counting purposes on the same loop. However, locations that are using loop detector units do not have enough detectors allocated to achieve this. Will there be an addendum released for a quantity change of the loop detector units, or does the specification not apply to these locations?

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Ohio Department of Transportation

Prebid Questions

Question Submitted: 3/1/2006
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Question Number: 8

Item 632 – Vehicular signal head, LED

The plan note specifies the use of polycarbonate plastic in lieu of steel or aluminum for pipe, spacers etc. The signals are to be rigid mounted. Does the requirement for polycarbonate material apply to the rigid signal mounting hardware?

Item 632 – Pedestrian Signal Head

The plan note specifies the use of polycarbonate plastic in lieu of steel or aluminum for pipe, spacers etc. Some of the Pedestrian signals are to be Pedestal mounted. Does the requirement for polycarbonate material apply to the post top mounting hardware? If yes this will necessitate that the Pedestal pole height be increased to accommodate the polycarbonate fittings.

Item 632 – Controller Item, Misc.: Preemption System

Is the Siren activated preempt system the only acceptable preempt system? May alternative infrared, GPS, or radio systems be offered under the base bid?

A1: The mounting hardware shall be as per the plan note on sheet 7 and Standard Drawing TC-85.20 referenced in the note. Polycarbonate mounting hardware is not a requirement. A2: The mounting hardware shall be as per the plan note on sheet 7 and Standard Drawing TC-85.20 referenced in the note. Polycarbonate mounting hardware is not a requirement. A3: Sound activated preemption is the only type allowed on this project. NOACA's preemption policy is a regional policy and since surrounding communities have sound preemption, this policy indicates sound preemption shall be used in Parma.

Question Submitted: 3/1/2006

Question Number: 9

Ref. #115 Video Detector Unit:

-The specifications on plan page 9/137 call "for a system capable of locating specified system detection zones in the field of view closest to the camera. The detection zones shall be gated with the appropriate green phase..." There are no system detection zones on this project which meet this criteria, therefore, why is it necessary to have green phasing gating capacity?

-The system zones shown on the plan-set are on the departure from the intersection. Some of the system detection zones are up to, if not over, 400' from the proposed video detection camera. The rule of thumb is that there is a 10:1 ration for distance to mounting height of the video detection camera. Also, trying to view these system detection zones with the same camera that is doing the stop bar detection in the opposite direction lends itself to occlusion problems for the system detection zones. Moreover, on the pole details for the combination poles it shows two camera's per pole one mounted on the bracket arm and one mounted on the mast arm. If this approach would be used on the project it would take care of the occlusion problem, as well as, the distance problem for most all of the systems detection zones. Will there be an addendum released for a quantity change for six (6) video detector unit at the locations with departing system detection zones?

-The specifications call out for a 16X zoom video detection camera. This is a proprietary specification seeing that only one (1) video detection manufacturer offers a 16X zoom camera. The other manufacturers offer cameras ranging from 8X-12X zoom which function just as well. Will there be an addendum released opening up this specification to allow competitive bidding?

-The specifications call out for the camera to have a single MS connector. Will the state accept a camera that has separate vide and power connections on the camera but use a single jacketed siamese cable that runs down to the controller cabinet?

-The specifications call out for there to be separate contrast detectors used. This is a proprietary seeing that only one (1) model by one (1) manufacture offers separate contrast detectors. The other manufacturers have the contrast detection integral to the video detection processor (VDP). Will there be an addendum released opening up this specification to allow competitive bidding?

Question Submitted: 3/14/2006

Question Number: 10

Ref. #115 Video Detection Unit:

The general notes on page 9/137 for this item in the first paragraph states that "Real-Time Polling, Dial-Out or Stored Traffic Data...By Phase Or Programmed Timed Intervals Ranging From 1 Second To 1 Hour." Normally the time interval is from 1 minute to 1 hour, is the "1 Second" a misprint, and or, will timed intervals ranging from 1 minute to 1 hour be accepted?

Question Submitted: 3/2/2006

Question Number: 11

Item #066: Interconnect Misc: Wireless Spread Spectrum Radio

-The specifications for this item requires the radio requires it to have "UP TO 3 INDEPENDENT DB-9 5-WIRE RS232 SERIAL PORTS." This is a proprietary specification seeing only one manufacture offers a spread spectrum radio that meet the port specification. Also, there are other radio's available with only one RS-232 port which will give the functionality required by the specifications. Will there be an addendum released that will open this up to allow competitive bidding?

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Ohio Department of Transportation Prebid Questions

Question Submitted: 3/20/2006

Question Number: 12

Item 633 Controller Item Misc.: Video Detection System:

-Addenda #4 gave a proposed draft specification for the vide detection system. Under "B" Interface of the specification you require the camera input to be a BNC connector on the front of the processor. Will a system that cas the camer input using a BNC attached to the Detector Rack be accepted?

-Under "N" in addenda #4 it gives a basis of payment for Video Detection System Training, however, it does not alter the pay items for this proposal. Will there be an addenda released adding a line item for payment of the VIDEO DETECTION SYSTEM TRAINING?

Question Submitted: 3/20/2006

Question Number: 13

On plan-page 57/137 the wiring diagram shows 6-pair interconnect cable going into this cabinet. However, there is no 6-pair interconnect cable on the bid tabulation. Is this a mistake in the plan-set, or if there is existing 6-pair interconnect what other intersection is it being connected to via the 6-pair?

Question Submitted: 3/21/2006

Question Number: 14

As a follow up to my question moments ago I now notice that a quantity of 39 appears in the EBS. I believe this quantity to be in error. Each of these items is very expensive. The additional 4 each in EBS that clearly do not belong will adversely affect the total project bid amount. Please correct the quantity back to the desired 35 each. Again, the text portion of both addendum #4 and addendum #6 state the quantity to be 35 and this quantity parallels plan intent.

Question Submitted: 3/21/2006

Question Number: 15

We received addendum #6 moments ago. The revised bid item (ref #115) quantity was changed from 133 to 39. This is in direct conflict with the text in both this addendum as well as the text of addendum #4. Each of these addenda describe a revised quantity of 35 each. Which quantity is correct--39 or 35?

Question Submitted: 3/21/2006

Question Number: 16

Addendum 6 changed the bid quantity of item 0115 from 133 to 39. This is not the correct quantity. A total of 35 Video Detection Systems is the correct quantity.

Question Submitted: 3/3/2006

Question Number: 17

Addendum #2 changed the scope of the project on Item 632 - Interconnect, Misc.: Wireless Spread Spectrum Radio stating "The specified equipment will be functional with one port." The plan notes throughout the project require both the controller communications and video detection system communications be routed through the Wireless Spread Spectrum Radio system. This capability will require a minimum of 2 functional and operational ports on the wireless spread spectrum radio system.

Question Submitted: 3/3/2006

Question Number: 18

Plan note on plan page 4 under "Maintenance of Traffic Signal Installations" it talks of off duty Parma police being required to be hired by the contractor for outages due to construction procedures. We request an item for LEO be added to the list of proposal items. We estimate the approximate qty necessary at 48 hours

The intent is to use police officers during unforeseen outages and is considered incidental to the pay item. The note does not require the hiring of police, it gives the contractor the option. This has been done on other projects of similar size and type and has worked. Please bid as is.

Question Submitted: 3/6/2006

Question Number: 19

Ref #116; Spare Controller Timers:

The general notes on page 7/137 requires two (2) MMU's to be supplied under this pay item. Normally MMU's are used with TS2 type cabinets and CMU's (conflict monitors) are used with TS1 cabinets. There are no specifications under the general notes for the controller with cabinet which specify if a conflict monitor or an MMU is to be used. Please clarify which is to be used on this project.

Question Submitted: 3/6/2006

Question Number: 20

In Addenda #2 you allowed for 12X Zoom Color Video Detection Cameras. Will 10X Zoom Color Video Detection Cameras be accepted on this project?

Question Submitted: 3/6/2006

Question Number: 21

Re #115 Video Detection Unit:

The specification on page 9/137 states that the communications protocol is to include UDP/IP message packet and routing stanard. We propose to offer a product which used the TCP/IP message packet and routing standard. The TCP/IP is more reliable than the UDP/IP in that it acknowledges sent packets. Will the TCP/IP standard be accepted on this project?

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Question Submitted: 3/6/2006

Question Number: 22

Ref #047 School Speed Limit Sign Assy:

The signs accounted for on page 131 do not show wiring going to the appropriate controllers at the specific intersection plan pages. Are these signs to be controlled by the traffic signal controller or are they to have their own timer with enclosure? If they are being controlled by their own timer with enclosure will there be an addendum released updating the bid tabulation?

Question Submitted: 3/6/2006

Question Number: 23

Ref #52 & #53 2-Way Vehicle Signals:

2-Way Vehicle Signals are normally associated with span wire or free swinging mounted vehicle signals. This project is using rigid signal mounting hardware and I do not believe that the major hardware manufacturers make hardware to allow for a rigid mounted 2-way using one (1) 3-section and one (1) 5-section vehicle signal. Will there be an addendum released revising the bid quantities to reflect this?

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