

# Ohio Department of Transportation

## Prebid Questions

Project No. 090338

Sale Date - 6/24/2009

Question Submitted: 5/29/2009

Question Number: 1

Please review all data on the tables which provide the drilled shaft, beam, and lagging data. There are numerous mistakes. For example the beam lengths for piles 52-55 and 57 are not the difference between the 'Top Elevation of Beam' and 'Bottom Elevation of Shaft'. There are also errors in the drilled shaft stationing and length of drilled shafts at numerous locations. Please provide revised corrected plan quantities for all items.

Question Submitted: 6/1/2009

Question Number: 2

Where is the drilled required to get from existing grade to the top of shaft elevations in the plans paid for? It appears that the Low Strength Mortar Backfill item has been established to backfill this length of drilled shaft, however there is no drilling quantity included for it. Please clarify.

**Drilling through overburden above the shaft shall be included for payment in Item 524 Drilled Shafts Above Rock, APP and Into Rock, APP. This is stated on sheet 6 column three, paragraph two: "Payment is full compensation for constructing the drilled shafts, including furnishing and placing concrete."**

Question Submitted: 6/1/2009

Question Number: 3

A large portion of the abandoned 5" waterline is within the excavation section of roadway and will be removed. This quantity of pipe removal is not included in the plan quantities. Please revise the pipe removal quantity to include this amount.

Question Submitted: 6/10/2009

Question Number: 4

Has there been any preliminary investigation for asbestos at any of the described locations/residence to be demolished and removed? If so what were the findings and procedures and if not then whose responsibility and per unit cost would this fall under?

Question Submitted: 6/10/2009

Question Number: 5

It appears that bid item 138 - STEEL PILES, MISC.: W35X130 should read - STEEL PILES, MISC.: W33X130.

Question Submitted: 6/11/2009

Question Number: 6

The note on sheet 7 for Item Special: Waterproofing Misc.: PVC Waterstop seems to indicate that there is a separate pay item for this work, however no such item exists. Where should the cost of the waterstop be included?

Question Submitted: 6/11/2009

Question Number: 7

On Drawing 186/214, the detail for the DCP Anchor shows a High Strength Threaded Bar Anchor. No size is shown. Is this the contractor's responsibility to design the anchor size as well as the bond zone length and diameter? Also, can the appropriate sized strand anchor be used in lieu of a bar anchor?

**Q.1. On Drawing 186/214, the detail for the DCP Anchor shows a High Strength Threaded Bar Anchor. No size is shown. Is this the contractor's responsibility to design the anchor size as well as the bond zone length and diameter? A.1. Yes the contractor will be responsible for the anchor size of the High Strength Threaded Bar Anchor. See note 2 on sheet 186. Q.2. Also, can the appropriate sized strand anchor be used in lieu of a bar anchor? A.2. Yes, pending the approval of the Engineer.**

Question Submitted: 6/11/2009

Question Number: 8

The details on sheet 186 for Upper Wall 1 show porous backfill behind the wood lagging. Since the wood lagging application is a top-down construction method, there is no physical way to install the porous backfill. Typically in wood lagging applications a geo-drain is installed on the front of the wood lagging. Please revise the details and quantities for this location accordingly.

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# Ohio Department of Transportation

## Prebid Questions

Question Submitted: 6/11/2009

Question Number: 9

Please provide a footing design detail for the concrete columns on sheet 162. These are not specified to be a precast item and therefore may not have a manufacturer to perform the design. Also, there is no design criteria (loading) provided in the plans which the contractor or their manufacturer could use to perform a design.

**If the concrete columns are not manufactured by a manufacturer, then the concrete columns will have to be designed and manufactured by the contractor. Thus the contractor (now manufacturer / designer) will be responsible for the design of the column and column footer. The Department can not give design criteria (loading) because the concrete columns may be designed various ways by different manufacturers (contractors). Thus the manufacture shall design the column footer.**

Question Submitted: 6/11/2009

Question Number: 10

Please provide a rebar detail for the concrete columns shown on sheet 162.

**The concrete column design is the responsibility of the manufacturer / contractor.**

Question Submitted: 6/11/2009

Question Number: 11

On Drawing 186/214, the typical wall sections are shown for an Anchored Wall, Wall with Timber Lagging and Wall with Concrete Lagging. On these sections a 1'-6" thick porous backfill is shown. The typical sections shown are primarily in a cut section. Once your beams are installed, as you excavate down, you must retain the earth behind the wall. This is usually accomplished by lagging behind the back flange of the soldier pile. Your detail shows lagging behind the front flange of the soldier pile, which could be installed as shown, but would preclude the installation of the porous backfill. Lagging behind the back flange of the beam would allow for the placement of the porous backfill but not at 1'-6" thick. Basically this detail is not constructable as shown. Please advise as to how to proceed.

Question Submitted: 6/12/2009

Question Number: 12

Will the contractor be permitted to "waste" excess excavation from the proposed roadway construction within ODOT's Right-of-way between the existing SR-124 and the proposed SR-124?

**The contractor will not be allowed to waste within ODOT's Right-of-way between the existing SR-124 and the proposed SR-124 for two reasons. The majority of this area in question lies within the 100 year flood plain. No additional fill will be allowed by the flood plain permit. The area not within the 100 year flood (primarily from Sta. 2427+00 to Sta. 2436+00), no fill will be allowed due to slope stability.**

Question Submitted: 6/12/2009

Question Number: 13

Has ODOT performed any slope stability analysis or additional subsurface investigation, either along the proposed SR-124 or along any properties adjacent to the project Right-of-way? If so, can this information please be provided in an addendum?

**All subsurface analysis and investigation is contained in the "Report of Roadway Exploration". This document is available for review in the District office**

Question Submitted: 6/15/2009

Question Number: 14

Sheet 179 of 214 details the minimum unbonded length for the tiebacks at 20 foot, implying that the tiebacks can be anchored to the soil. Permanent tiebacks for this type of project along the Ohio River are typically socketed into rock, as are the drilled shafts on this project. However, rock is fairly deep, especially to the south; and at an angle of twenty degrees, the tieback lengths will be very long. Please confirm that the tiebacks are to be drilled into rock.

**The tiebacks may be anchored to soil and/or rock in order to achieve the minimum design load.**

Question Submitted: 6/15/2009

Question Number: 15

On Sheet 7/214, Column Two; 'Coal Tar Epoxy Coating'. Most contractors will have the soldier piles coated prior to delivery on site. These piles will then be placed in the drilled shafts and the drilled shafts will be filled to the top of the pile with LSM prior to excavating to install the lagging. A significant amount of damage to the Coal Tar Epoxy Coating should be expected when the LSM is removed from the drilled shaft. Will ODOT require all damaged Coal Tar Epoxy Coated piles to be repaired to the specifications on sheet 7/214? This doesn't seem like a good coating system to protect the pile (like possibly galvanizing) when the coated pile will be encased in LSM for a short period of time.

**Any damage to the coating due to handling or construction operations shall be repaired by the contractor at no additional expense to the Department.**

Question Submitted: 6/15/2009

Question Number: 16

Regarding Ref. 155 Decorative Steel Railing, there does not seem to be any specifications regarding the material or coating requirements. Please specify via addendum.

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# Ohio Department of Transportation

## Prebid Questions

Question Submitted: 6/16/2009

Question Number: 17

On the revised plan sheet 183/214 from Addendum #1, the Drilled Shafts, 24" and 36" diameter, INTO Bedrock quantities are extremely large for a typical drilled shaft retaining wall design. Please verify that it is ODOT's (or Stantec's E.O.R.) intent to construct rock sockets ranging from 20 feet to 35 feet.

**The rock socket lengths are correct.**

Question Submitted: 6/17/2009

Question Number: 18

Due to the presence of very soft, wet overlying soils, will the use of permanent casing be allowed for the drilled shafts?

**Permanent casings will be allowed for drilled shafts.**

Question Submitted: 6/17/2009

Question Number: 19

1. Please better define 'exterior surfaces' as stated on sheet 7 under Coal Tar Epoxy Coating Section A. Does this mean all surfaces above the drilled shaft or only portions of the pile that will be exposed once construction is completed. 2. Will the coal tar epoxy coating be required on Upper Wall 1 since the piles will be covered by the cast in place facing.

**A. All surfaces above the shaft will have a Coal Tar Epoxy Coating. A. Addressed by Addendum.**

Question Submitted: 6/17/2009

Question Number: 20

I am having trouble locating a 208.17 Hydrologist. Can you provide a list of qualified hydrologists? Thank you,

**The following list is not all inclusive: Greg Fowler, GDF Consulting, 304-593-0072 Greg Love, Vibro-Tech Engineering, Inc., 724-933-7620 Doug Bartley, DBA Consultants, 304-243-0007**

Question Submitted: 6/18/2009

Question Number: 21

there is a bid item for (15) replacement drums, but we don't see where there are any originals being required to be placed for traffic control. Please clarify.

**Payment for drums is included with the Lump Sum for Maintaining Traffic. With the contractor required to maintain access to drives and parking areas, it is anticipated that drums will be required as directed by the Engineer.**

Question Submitted: 6/18/2009

Question Number: 22

Addendum #2 added Ref. Nos. 201-204 for asbestos abatement. Refs. 202-204 quantify all of the asbestos shown in the reports as being required for removal. Ref. 201 is a lump sum item "Special-Asbestos Abatement". What work is to be included under Ref. 201, since everything seems to be quantified elsewhere?

**Ref. 201 Special - Asbestos Abatement Lump Sum shall include but not be limited to the following. (as stated in note): - any needed utilities to complete the abatement work. - abatement not required prior to demolition.- maintain records (such as manifests, landfill tickets, daily logs, etc) to document the source, movement and destination of each truckload of contaminated material. One copy of each of these records must be submitted to the Engineer.- Maintaining a job book, at the work site, with a copy of all company and worker documentation pertinent to this project (license, notifications, physicals, fit tests, etc.) Ensuring all personnel working on this project are experienced, licensed, certified and have current physical examinations and documentation. Monitoring of OSHA personal.- The contractor and/or subcontractor shall submit to the engineer and/or the demolition contractor written notification that the parcel has been completely abated and is safe to enter and/or demolish the necessary structures.**

Question Submitted: 6/19/2009

Question Number: 23

Can precast lagging of sufficient strength be substituted for wood lagging at wall 2427+40 to 2431+26.67 (Upper Retaining Wall #1) or can temporary wood lagging be utilized with a thicker CIP facing wall of sufficient strength to resist the lateral earth pressure?

**Please construct as per the plan.**

Question Submitted: 6/19/2009

Question Number: 24

Can drainage composite be substituted for the 1'-6" of porous backfill and filter fabric?

**Construct as per plan.**

Question Submitted: 6/22/2009

Question Number: 25

Can the tieback anchor inclination angle be adjusted up to 30 and 45 Degrees? This will allow the anchors to bond into rock without having to drill upwards of 200' in some locations. We understand that this will increase the design load of the anchors and we will adjust the size of the anchors accordingly.

**Tieback anchors for this project are not designed to be necessarily angled down to achieve bonding in rock, but should be able to achieve their design load in a bond zone in the overburden soil. Therefore construct as per plan.**

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## Ohio Department of Transportation Prebid Questions

Question Submitted: 6/3/2009

Question Number: 26

1. Shaft number 1 on sheet 190 has a length of 10.44' into rock. However the top of shaft elevation and bottom of shaft elevations only indicate a 6' long drilled shaft. One of the columns on sheet 190 appears to be incorrect. Please clarify as this affects other shafts on the same wall. 2. Your answer on the website to the prebid question regarding overburden drilling is unclear. Generically referring to a note which states "Payment is full compensation for constructing the drill shafts..." does not answer the question. The Department has already established Item 524 Drilled Shafts Above Rock for some of the overburden drilling. The quantity set up is not adequate to perform all drilling required on the project. Since the Department recognizes that this additional drilling will occur and has quantified it in order to set up the bid item for LSM Concrete, the drilling should be paid as additional quantity on the drilled shaft above rock bid items.

**A1) Sheet 6, column 3, paragraph 3 - " The Department will measure drilled shafts into bedrock, as per plan, along the axis of the drilled shafts from the top of bedrock to the bottom of the drilled shaft, as determined by the engineer." The length of 10.44 ft is from the top of rock to the bottom of the shaft. Rock is at the surface at this location. A2) please see addendum #1**

Question Submitted: 6/3/2009

Question Number: 27

1. There is no quantity set up for LSM Backfill on sheet 190 for the last retaining wall. Since the shafts do not start at existing ground in all locations, a quantity should be included similar to the other walls. 2. Will the Department allow the use of precast lagging panels taller than 2' on the wall from 2431+25.75 to 2436+02.63?

**A1) Please see addendum #1 A2) Construct as per the plan.**

Question Submitted: 6/3/2009

Question Number: 28

The data for Drilled Shaft 9 on sheet 183/214 at Station 2428+01.15 indicates that there is no rock drilling at this location. Boring R-RW-6 on sheet 75/94 indicates that the Top of Rock starts at 698.4, which is 33.4' above the bottom of the drilled shaft. Please review the tables regarding rock drilling lengths. It appears that the quantities may be incorrect and also that the drilled shaft lengths may be over-designed if no rock was assumed.

Question Submitted: 6/4/2009

Question Number: 29

Please provide a detail for the underdrain outlets so that we may takeoff the required fittings. Also, what is the intent of the 6" conduit, type F?

Question Submitted: 6/5/2009

Question Number: 30

Has the Department already removed potential Indiana Bat trees and if not will they be marked so that clearing may begin prior to September 15th?

**Bat trees have not been removed from the project. Bat trees will be marked prior to construction so that clearing may begin prior to Sept. 15.**

Question Submitted: 6/9/2009

Question Number: 31

RE: Pavement Calculations Can ODOT provide the "From Calcs" information used to determine the bid quantities for the pavement bid items.

**<ftp://ftp.dot.state.oh.us/pub/Contracts/Attach/MEG-79807/>**

Question Submitted: 6/9/2009

Question Number: 32

The prebid Q&A website has several answers which state to see Addendum #1. This addendum is not available on ODOT's website. When will the addendum be available?

Question Submitted: 6/9/2009

Question Number: 33

could you please make available the design files (CAD or DGN) for this project?

**<ftp://ftp.dot.state.oh.us/pub/Contracts/Attach/MEG-79807/>**

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