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**Addendum 2**  
**Solicitation 23-99145**  
**Enger Golf Course Irrigation Improvements**

This addendum serves to notify all bidders of the following changes to the solicitation documents:

1. Section 328400

3.04 ROCK/UNSUITABLE MATERIAL EXCAVATION (Change the following):

B. Rock excavation shall include solid rock or other masses which cannot be reasonably broken, plowed and removed ~~with power driven equipment~~ and/or boulder or stone which, because of size or position in the trench requires other means for removal and when no other alternative is present, rock hammering ~~or rock sawing~~ shall be ~~done~~ **performed** and shall be considered "extra work" against the rock allowance per unit prices. **Base bid shall include 300 linear feet of Payment for rock hammering, hammered rock excavation, hauling and bedding shall be made per unit price provided in the bid.** ~~on the unit price form. Payment for rock sawing shall be made per unit price on the unit price form.~~ **Base Bid shall include 250 cubic yards of unsuitable material removal other than hammered rock per deleterious material unit price provided in the bid. Alternate Bid #1 shall include 100 linear feet of rock hammering, hammered rock excavation, hauling and bedding per unit price provided in the bid. Alternate Bid #1 shall include 500 cubic yards of unsuitable material removal other than hammered rock per deleterious material unit price provided in the bid.** ~~Unsuitable material removal other than hammered rock or rock sawing shall be paid per deleterious material unit price on the unit price form.~~

**No rock sawing is anticipated for this project. If rock sawing is thought to be required, the location and length shall be marked for review by the Owner's Representative. No rock sawing shall take place without written approval and direction from the City of Duluth. If required, rock sawing shall be paid on a time and materials basis through a change order.**

E. Contractor shall provide and stockpile bedding materials at locations to be selected by Golf Course Superintendent. Deleterious material shall be quantified by load and signed off by Golf Course Superintendent or his designated representative on a daily basis. Rock that is not signed for shall not be paid for. ~~Rock sawing shall be quantified~~

~~per linear foot of trench, regardless of pipe size.~~ Rock hammering shall be quantified per linear foot of trench, regardless of pipe size.

2. The bid form in Bid Express has been updated to reflect the removal of rock sawing as a bid item.

The following questions are answered in *italics*.

3. The reference to probing is for geographic areas that are suited and allow for such a technique. The basal till terrane of Enger is not suited for probing. There is no way to determine if the probe refusal is caused by either a rock, bedrock or dense till. *While probing may not be able to be completed by hand in all or any areas, probing should work by either driving the probe in with a hammer/pounder or using a machine to push the probe. When a refusal is evident, additional probing in the area of refusal should reveal if it is by boulder or bedrock.*
4. If Buckingham Stream may be realigned as part of this project that would entail some degree of excavation in order to accomplish this then why wouldn't it be appropriate to consider the crossing of the streams by open excavation an alternative to propose to the DNR? *Open excavation could be allowed in a new alignment area of Buckingham Creek if the channel hasn't been created or been filled with water. Any deviation from boring across an existing or new channel would need to be approved by the Minnesota Department of Resources (MN DNR).*
5. What is the contingency if some of the crossings cannot be completed by HDD? *To be determined. We would need to show due diligence to the MN DNR that we are unable to stream cross with all less intrusive measures to a Designated Trout Stream before being allowed to open excavate. This would be completed under a Change Order. It would likely involve coir dams and pumping water around the excavation in a manner approved by the MN DNR.*
6. Will all deleterious material need to be disposed of offsite, or can we dump it on the property? *See Contractor Requirements/Instruction to Bidders, Paragraph 29.*
7. Per the addendum we are to figure a certain amount of Bored Rock. The difference between a 4" bore and a 12" bore is dramatically different. What size pipe do you want us to figure for Rock Boring? *It is up to Contractor to determine.*
8. Rock Sawing has similar issues. Sawing a ditch large enough for 2" is fairly straight forward, sawing a ditch large enough for 12" pipe could be 15-20 times more. The biggest issue, from our research, is mobilization cost for a large rock saw would cost in the 10's of thousands of dollars, plus the footage. Therefore putting together a Linear Foot price, we would be forced to include the mobilization in our footage price. This will make the LF price completely unsustainable. For example, the 100' asked for in the addendum could be \$95,000-\$100,000 or \$1,000/foot. Can you clarify what size pipe we will be sawing for, and how to handle the mobilization cost to bring in the specialty equipment required? *No longer applicable with Addendum #2.*
9. Due to the incredibly complex nature of Rock excavation in general and all the unknowns a

“Cost+” for these line items will by far be the most advantageous to you, the owner. If we fill out the line items as defined we would be forced to plug in a number that would cover worst case in which you would then be locked into that footage price for the entire project. Would the City consider allowing “Cost+” on the bid form for rock related line items? *The City cannot allow a Cost+ bid item. Rock sawing, if required, will be paid as stated in item #1 above. All other rock related items will be paid as stated in the bid form and specifications.*

10. Can a Unit Price for Mobilization of Rock Excavation Equipment be added? **No.**

Please acknowledge receipt of this Addendum by checking the acknowledgment box within the [www.bidexpress.com](http://www.bidexpress.com) solicitation.

Posted: **April 7, 2023**