April 13, 2015

SUBJECT: FAU Route 2421 (Sheffer Road)

Section 11-00298-00-BR (Aurora)

Kane County

Contract No. 61B08

Item 171

April 24, 2015 Letting

Addendum A

NOTICE TO PROSPECTIVE BIDDERS:

Due to clarify information necessary to revise the following:

- 1. Revised Plan sheets 7, 16, 29, 30 and 45 to incorporation the pay item Steel Casing Pipe, Bored and Jacked 24"
- 2. Revised pages 1-10 of the Scheule of Prices due to adding the pay item Steel Casing Pipe, Bored and Jacked 24"
- 3. Revised the Table of Contents and pages 47, 48, 225-228 of the Special Provisions due to adding the Special for Steel Casing Pipe, Bored and Jacked 24" and for deleting the special for HMA-Quantity Correction (BMPR) (D1)

Prime contractors must utilize the enclosed material when preparing their bid and must include any Schedule of Prices changes in their bidding proposal.

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Very truly yours,

John Baranzelli, P.E.

Acting Engineer of Design and Environment

By: Ted B. Walschleger, P.E.

Tet Delselye A.E.

Engineer of Project Management

13-15-15

ECMS002 DTGECM03 ECMR003 PAGE RUN DATE - 04/10/15 RUN TIME - 183103 ILLINOIS DEPARTMENT OF TRANSPORTATION SCHEDULE OF PRICES CONTRACT NUMBER - 61808

> STATE JOB #- C-91-252-12 PPS NBR -

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FAU 2421 11-00298-00-BR KANE	ITEM	78000600	78000650	78200410 (78200520	78201000	88600600	

EACH PAY ITEM SHOULD HAVE A UNIT PRICE AND A TOTAL PRICE NOTE:

THE UNIT PRICE SHALL GOVERN IF NO TOTAL PRICE IS SHOWN OR IF THERE IS A DISCREPANCY BETWEEN THE PRODUCT OF THE UNIT PRICE MULTIPLIED BY THE QUANTITY. ς.

IF A UNIT PRICE IS OMITTED, THE TOTAL PRICE WILL BE DIVIDED BY THE QUANTITY IN ORDER TO ESTABLISH A UNIT PRICE. .

BID MAY BE DECLARED UNACCEPTABLE IF NEITHER A UNIT PRICE NOR A TOTAL PRICE IS SHOWN. ಠ 4.

	EMBANKMENT I (D-1)	30
	GROUND TIRE RUBBER (GTR) MODIFIED ASPHALT BINDER (D-1)	32
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	PERMITS: REGULATED FLOODWAY CONSTRUCTION PERMIT (IDOT) ARMY CORPS OF ENGINEERS (ACOE) KANE COUNTY STORMWATER ORDINANCE APPROVAL LETTER (COA) KANE-DUPAGE STORM WATER CONSERVATION DISTRICT (KDSWCD)	79 84 89 90
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	STEEL CASING PIPE, BORED AND JACKED, 24"	225

criteria are being met. No additional mixture shall be produced until the Engineer receives passing Hamburg Wheel tests.

Method of Measurement:

Add the following after the fourth paragraph of Article 406.13 (b):

"The plan quantities of SMA mixtures shall be adjusted using the actual approved binder and surface Mix Design's G_{mb} ."

Basis of Payment.

Replace the seventh paragraph of Article 406.14 of the Standard Specifications with the following:

"For all mixes designed and verified under the Hamburg Wheel criteria, the cost of furnishing and introducing anti-stripping additives in the HMA will not be paid for separately, but shall be considered as included in the contract unit price of the HMA item involved.

No additional compensation will be awarded to the Contractor because of reduced production rates associated with the addition of the anti-stripping additive."

-HOT MIX ASPHALT - QUANTITY CORRECTION (BMPR) (D-1)

Effective: October 1, 2014 - Revised: October 2, 2014

Revise the fifth paragraph of Article 406.13(b) of the Standard Specifications to read as follows:

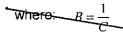
"HMA and Stone Matrix Asphalt (SMA) mixture in excess of 103 percent of the quantity shown on the plans or the plan quantity as specified by the Engineer will not be measured for payment. The "adjusted quantity to be placed" and the "adjusted pay quantity" for HMA and SMA mixtures will be calculated as follows.

Adjusted Quantity To Be Placed = C x quantity shown on the plans or the plan quantity as specified by the Engineer

where: C = English:
$$C = \frac{G_{mb} \times 46.8}{U}$$
 Metric: $C = \frac{G_{mb} \times 24.99}{U}$

Adjusted Pay Quantity (not to exceed 103 percent of the quantity shown on the plans or the plan quantity as specified by the Engineer) = B x HMA tons actually placed

Sheffer Road over Indian Creek City of Aurora Contract No. 61B08 F.A.U. 2421 Job. No. C-91-252-12 Sec. 11-00298-00-BR Kane County



If project circumstances warrant a new mix design, the above equations shall be used to calculate the adjusted plan quantity and adjusted pay quantity for each mix design using its respective average bulk specific gravity."

MAINTENANCE OF ROADWAYS

Effective: September 30, 1985 Revised: November 1, 1996

Beginning on the date that work begins on this project, the Contractor shall assume responsibility for normal maintenance of all existing roadways within the limits of the improvement. This normal maintenance shall include all repair work deemed necessary by the Engineer, but shall not include snow removal operations. Traffic control and protection for maintenance of roadways will be provided by the Contractor as required by the Engineer.

If items of work have not been provided in the contract, or otherwise specified for payment, such items, including the accompanying traffic control and protection required by the Engineer, will be paid for in accordance with Article 109.04 of the Standard Specifications.

PUBLIC CONVENIENCE AND SAFETY (D-1)

Effective: May 1, 2012 Revised: July 15, 2012

Add the following to the end of the fourth paragraph of Article 107.09:

"If the holiday is on a Saturday or Sunday, and is legally observed on a Friday or Monday, the length of Holiday Period for Monday or Friday shall apply."

Add the following sentence after the Holiday Period table in the fourth paragraph of Article 107.09:

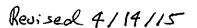
"The Length of Holiday Period for Thanksgiving shall be from 5:00 AM the Wednesday prior to 11:59 PM the Sunday After"

Delete the fifth paragraph of Article 107.09 of the Standard Specifications:

"On weekends, excluding holidays, roadways with Average Daily Traffic of 25,000 or greater, all lanes shall be open to traffic from 3:00 P.M. Friday to midnight Sunday except where structure construction or major rehabilitation makes it impractical."

RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES (D-1)

Effective: November 1, 2012 Revise: January 2, 2015



STEEL CASING PIPE, BORED AND JACKED, 24"

<u>Description</u>: The work covered by this Section includes furnishing all labor, materials and equipment required to jack and bore pipe and/or casings to properly complete construction as described herein as directed by the Engineer and/or as shown on the plans.

General:

- A. It is the Contractors responsibility for the interpretation of soil investigation reports and data, investigating the site and determination of the site soil conditions prior to construction.
- B. Pipe and casing installation shall be performed in a way that will not interfere with, interrupt or endanger roadway surface and activity thereon, and minimize subsidence of the surface, structures, and utilities above and in the vicinity of the bore. The Contractor shall be responsible for all settlement resulting from boring operations and shall repair and restore damaged property to its original or better condition at no additional cost to the project.
- C. The face of the excavation shall be protected from the collapse of the soil into the pipe or casing.
- D. Design of the jacking/receiving pit and required bearing loads to resist jacking forces are the responsibility of the Contractor. The excavation method selected shall be compatible with expected ground conditions. The length of the bore shown on the plans is the minimum length required. The length of the bore may be extended for the convenience of the Contractor, at no additional cost to the project. Due to restrictive right-of-way and construction easements, bore lengths less than the nominal 20 foot length may be necessary.
- E. Contractor shall dewater during installation in accordance with the SWPPP, Erosion Control Plan and the Standard Specifications for Water and Sewer Construction in Illinois.

<u>Materials</u>: Contractor shall comply with all manufacturers' recommendations for the approved products.

- A. Carrier Pipe: The carrier pipe shall be as specified in the Section for "Water Main and Appurtenances" in these specifications. All water mains within the casing pipe shall be restrained joint pipe.
- B. Casing: Casing pipe shall be 24" diameter, 0.375 inch thick rolled steel sheet with a continuous welded bead. The steel casing pipe shall have a minimum yield strength of 35,0000 psi and shall meet the requirements of ATSM A139, Grade B. Ring deflection shall not exceed 2% of the nominal diameter. The steel casing pipe shall be delivered to the jobsite with beveled ends to facilitate field welding. Casing pipe shall have welded joints with entire circumference welded by a certified welder shall be in accordance with AWWA C200-86 Section 3. The thicknesses of casing shown is a minimum thicknesses. Actual thicknesses shall be determined by the casing installer based on an evaluation of the required jacking forces.

Added 4/14/15

225

- C. Casing Chocks/Spacers: Casing spacers shall be required in all casing pipes. The casing spacers shall be affixed to the carrier pipe at a spacing of 6'-8" or per the manufacturers recommendations if less than 6'-8". The casing runner height shall be large enough so that it does not interfere with the pipe restrained joints. The spacer shall adhere to the following:
 - Casing chocks (spacers) shall be bolt-on style fabricated of 304 stainless steel with stainless steel nuts and bolts.
 - Runners in contact with casing shall be fabricated of high-density plastic with a low coefficient of friction.
 - Design runners to provide electrical discontinuity between water main pipe and casing pipe.
 - Provide chocks with an insulating liner.
- D. Casing End Seals: End seals shall be made of synthetic rubber, conical shape, pullon or wrap-around style with Type 304 stainless steel bands. For carrier pipe greater than 24 inches in nominal diameter the annular space between the carrier pipe and the casing pipe at the ends shall be bricked in conjunction with the end seals.

Construction Methods:

A. Welding of Casing Pipe:

- Welding requirements shall be in accordance with ANSI/AWWA C206. Welding procedures shall be required for, at a minimum, longitudinal and girth or special welds for pipe cylinders, casing joint welds, reinforcing plates, and grout coupling connections.
- 2. Welding shall be done by skilled welders, welding operators, and tackers who have had adequate experience in the type of materials to be used. Welders shall be qualified under the provisions of ANSI/AWS D1.1 by an independent local, approved testing agency not more than 6 months prior to commencing work on the casing or pipeline. Machines and electrodes similar to those used in the Work shall be used in qualification tests. The Contractor shall be responsible for all material and bear the expense of qualifying welders.

Submittals:

- A. Documentation that pipe and/or casing pipe material including the standard to which it is manufactured, outside diameter, wall thickness, joint configuration, and certificate of compliance certifying that the pipe and/or casing pipe meets these specifications.
- B. Details of casing spacers, including manufacturer's recommended spacing.
- C. Details of end seals for casing.
- D. Dewatering Plan as required by the NPDES Permit and approved by Kane-DuPage Storm Water Conservation District.

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Equipment: Contractor shall utilize equipment and methods designed to install pipe and/or casing as shown in the plans. Operation of equipment shall be performed by qualified personnel, experienced in this type of work. Selected equipment shall be capable of accurate alignment and grade control, and shall protect against subsidence or other disturbance of ground, existing utilities, existing road surface, and existing structures.

<u>Preparation</u>: Confirm location of all known existing utilities prior to start of jacking/receiving pit excavation and pipe installation. The Contractor shall provide the detailed layout required to keep the bore on grade. The Contractor shall notify the Engineer no less than seven (7) working days before beginning shaft excavation. Before beginning construction of jacking/receiving pit, adequately protect existing structures, utilities, trees, shrubs, and other existing facilities. Place fencing, gates, lights, and signs, as necessary around shafts and staging areas to provide for public safety. When preparing to install casing pipe, verify casing pipe minimum wall thickness is adequate for anticipated jacking loads.

Installation:

- A. Jacking/Receiving Pit: Required boring and jacking pits or shafts shall be excavated and maintained to the minimum dimension necessary to perform the operation. Said excavations shall be adequately barricaded, sheeted, braced and dewatered, as required, in accordance with the applicable portions of OSHA requirements.
- B. Lubrication of Exterior of Pipe and/or Casing: Bentonite slurry may be used to lubricate exterior of pipe and/or casing during installation. Use of water to facilitate removal of spoil is permitted; however, water jetting is not allowed.
- C. Boring: The boring shall be accomplished by means of auguring to the size, line and grade shown on the plans or as directed by Engineer. The diameter of the bore shall be minimal to complete the jack and boring operations. Re-drill pilot hole when bore does not meet specifications.
- D. Jacked and Bored Pipe and/or Casing: The boring and jacking operations shall be done simultaneously, with continuous installation, until the casing pipe is in final position. Correct line and grade shall be carefully maintained. Add on sections of casing pipe shall be full-ring welded to the preceding length, developing watertight total pipe strength joints. The casing installation shall produce no upheaval, settlement, cracking, movement, or distortion of the existing roadbed or other facilities. Following placement of the carrier pipe within the steel casing, each end shall be sealed as specified herein. Unless approved otherwise by the Engineer, a two-inch vent pipe shall be installed on the casing.

Casing pipe holes shall be mechanically bored through the soil by a cutting head on a continuous auger mounted inside the pipe. The auger shall extend a minimum distance beyond the end of the casing pipe to preclude formation of voids outside of the pipe shell.

E. Grouting Jacked and Bored Casings: Overcutting in excess of one (1) inch shall be

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remedied by pressure grouting the entire length of the installation. Should appreciable loss of ground occur during jacking or boring operations, Contractor shall backpack all voids promptly. Fill all remaining voids upon completion of operations: such filling or backpacking shall be with grout unless otherwise approved.

- F. Installation of Carrier Pipe within Casing: Entire length of casing shall be installed complete and inspected and approved by Engineer before any carrier pipe is placed therein. Repair defects in casing pipe or leakage at joints. Install a minimum of three casing spacers to each length of carrier pipe in such a manner that electrical continuity will not occur between casing pipe and carrier pipe. Spacers shall be placed on each side of each joint and at 6'-8" maximum spacing between joints. Check each joint makeup and pipe segment prior to pushing carrier pipe segments into casing. When the carrier pipe is a ductile iron or PVC pressure pipe install restrained joint pipe or mechanical joint with restrainers. Casing end seals shall be provided at the end of the casing pipe after installation of the carrier pipe.
- G. Casing Pipe: The casing pipe shall be adequately protected to prevent crushing or other damage under jacking pressures. Backstops shall be provided or adequately distributing the jack thrust without causing deformation of the soil or other damage. Should the casing pipe be damaged, such damaged portion, if not in the hole, shall be replaced; however, if inserted, the encasement pipe shall be abandoned in place, grouted full, and suitably plugged, and an alternate installation made.
- H. Filling Void in Casing Pipe: All void spaces between the casing pipe and carrier pipe shall be filled with natural sand 2NS or 1/8-inch pea stone. The sand or pea stone shall be placed by flushing or other methods approved by Engineer. The Contractor shall furnish sand fill holes in the carrier pipe as required to ensure complete filling of all void spaces.
- I. Removal of Jacking/Receiving Pit Support System: Remove support elements, except those required by Engineer to remain in place, from excavation. In addition, remove support elements as needed to install the pipeline. Removal of support system shall be performed in a manner that will not disturb or harm adjacent construction or facilities. Fill voids created by removal of support system with clean sand, flowable fill, or a similar granular fill material approved by Engineer.
- J. Backfilling of Jacking/Receiving Pit: Seal jacking/receiving pit opening and backfill at shafts when no longer required.

<u>Basis Of Payment</u>: This work shall be paid for and measured at the contract unit price per Foot for STEEL CASING PIPE, BORED AND JACKED, 24" which shall include submittals, sheeting and shoring, jacking and receiving pits, restrained joints, pipe spacers, end seals, casing aggregate, bedding, backfill, compaction, disposal of excess materials full and compensation for all labor, materials and equipment to complete the work as specified.

Ductile iron water main pipe shall be measured separately for payment as WATER MAIN of the size specified.

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