



**Request for Bid
Manhole Adjustments Group 5 Addendum No. 2 to
RFB No. 416942.71.0376
November 2, 2023**



The following information encompasses Addendum No. 2 for the above referenced RFB. Bidders shall fully consider and acknowledge this Addendum in the preparation and submittal of its formal Bid. Failure to do so may result in the rejection of the Bid.

Section 1 – Additional Bidder Questions Received to Date

Section 2 – Updated 00370 Subcontract Commercial Bid Form

Section 3 – Updated Specification 02532

All other conditions and requirements remain unchanged.

**Section 1
Additional Bidder Questions Received to Date**

Q1: In the pre-bid meeting it was referenced that this contract is an indefinite quantity/set duration contract. Please clarify what the intent is as outlined below:

Q1a: Is the original bid/contract amount a firm commitment as relates to the dollar amount, or can the contract be stopped at any time without cause?

SARP10: No. The bid amount is not a firm commitment. The contract and work can be adjusted at any time determined by Purchaser. The estimated quantities in the contract documents are based on the historical workload.

Q1b: Is the contract limited to a monthly financial amount?

SARP10: No.

Q1c: If so, what is the amount?

SARP10: n/a

Q1d: If the contract is limited to a monthly amount that extends the contract as a result, will there be an inflation adjustment allowed due to the program limits set?

SARP10: In the event that a Contract extension is warranted, an inflation adjustment will be evaluated.

Q2: It was stated that monthly payments would be tied to manhole adjustments that have an MACP submittal accepted. Does that mean the MACP has to be approved prior to submitting invoicing or will the payment be withheld at the time of disbursement in the case the MACP has not been approved during the waiting period after invoices are approved?

SARP10: Yes, the MACP data must be approved prior to submitting the invoice.

Q3: In the RFB, the scope of work includes this statement – “Some of the ancillary work includes traffic control, pavement removal and replacement, sidewalk removal and replacement and curb and gutter removal and replacement”. All of these work items, with the exception of traffic control, have a unit price associated with them indicating these are pay items and not ancillary work. Please clarify which items are ancillary and which items are not.

SARP10: The term ancillary does not dictate that these tasks will be paid under a specific line item, but is a general term used to communicate that associated work is included in the project.



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Q4: The preconstruction meeting and tentative notice to proceed are on 12/05/23 and 12/07/23 respectively. When will work be allowed to start?

SARP10: The notice to proceed will define the starting date. Historically this has been within 2 weeks of the preconstruction meeting.

Q5: The Tennessee 811 laws stipulate that a contractor may proceed with caution 72 hours after the one call is made in the event utilities are not yet marked. Is that policy applicable to this work?

SARP10: NO. Black & Veatch policy requires all utilities to be marked prior to trench and excavation permit approval by BV.

Q6: Is an 811 ticket required to probe or drill to locate the manhole?

SARP10: Yes, drilling or probing into the surface is considered breaking ground which falls under our Utility Avoidance/Trench Excavation procedures.

Q7: 7. Hand digging was mentioned in the pre-bid meeting and there is a unit price in the RFB but there are no specifications for what this entails. Please clarify.

SARP10: See specification section 02532.3.J in attached Addendum 2.

Q8: The measurement for payment related to adjustment depth is from the top of the located manhole cover to existing grade. For deeper manholes where grade rings, bricks or risers and cones are needed, additional excavation that can't be determined is required to find an appropriate surface to install the various adjustment methods. How is compensation for that work handled?

SARP10: The compensation for this situation would be made under the appropriate adjustment depth where the acceptable material was located taking the frame thickness into account.



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**Section 2
Updated 00370 Subcontract Commercial Bid Form**

Table 00370.3.1 - Unit Price Bid Form

| Bidder should refer to Section 00270, Instructions to Bidders, when completing this Bid Form. Bidder shall complete this form entirely and return it with Bidder's Bid. | | | | | |
|--|--|-----------------|--------------------|-------------------------|-----------------|
| Bid Submitted by: (Company Name) | | | | | |
| 00370.3 Bid Pricing Information | | | | | |
| 00370.3.1 Unit Pricing | | | | | |
| <p>Bidder proposes to complete the RFB Work based on firm, fixed, unit prices (US dollars), which prices multiplied by the final Work quantities would represent the full consideration to Bidder for its complete and satisfactory performance of the Work in compliance with all the terms and conditions of the RFB Documents. The Unit Prices in this Table include the cost of all the work which is required or implied by the RFB documents or which may be inferred therefrom, and which is customarily provided in furnishing a complete and finished work item of its kind. Further, any and all alterations, modifications, and adjustments to the work item, which is reasonably foreseeable or customarily encountered in providing and installing equipment, material, and services of the work item kind, will be performed without additional compensation.</p> <p>In the event of a Purchaser-approved change in the scope of Work for which a unit price from this Table is not applicable, as determined by the Purchaser, the Subcontractor shall provide a new unit price for review and acceptance by the Purchaser. Subcontractor shall provide all information requested by the Purchaser to substantiate the value of the new unit price.</p> | | | | | |
| 00370.3.1.1 Unit Prices Breakdown | | | | Bidder Response Columns | |
| Item Number | Item Description | Unit of Measure | Estimated Quantity | Unit Price | Extension Price |
| 71.0376 Manhole Adjustments Group 5 | | | | | |
| 02532-4.02.A | Manhole Adjustment with Adapter Rings (Adjustments < or = 5") | Each | 600 | | \$ - |
| 02532-4.02.B | Standard Manhole Adjustment (Adjustments >5.1" & <18") | Each | 300 | | \$ - |
| 02532-4.02.C | Manhole Adjustment (Adjustments >18.1" & <36") | Each | 60 | | \$ - |
| 02532-4.02.D | Manhole Adjustment (Adjustments >36.1") | Vertical Foot | 80 | | \$ - |
| 02532-4.02.E | 1.5" Manhole Adjustment Ring | Each | 400 | | \$ - |
| 02532-4.02.F | 2" Manhole Adjustment Ring | Each | 400 | | \$ - |
| 02532-4.02.G | #7 Sewer Manhole Frame & Cover | Each | 20 | | \$ - |
| 02532-4.02.H | #7 Sewer Manhole Cover Only | Each | 20 | | \$ - |
| 02532-4.02.I | Site Preparation and Restoration | Each | 50 | | \$ - |
| 02532-4.02.J | Sonde to Locate Manhole | Each | 70 | | \$ - |
| 02532-4.02.K | Hydroexcavation/Handdigging | Each | 200 | | \$ - |
| 02544-4.01.A | GPS Coordinates of Manhole Cover | Each | 1,000 | | \$ - |
| 02544-4.01.C-2 | MACP Level 2 Manhole Inspections - No 3D Scan | Each | 980 | | \$ - |
| 02544-4.01.C-2 | MACP Level 2 Manhole Inspections -With 3D Scan | Each | 20 | | \$ - |
| 02742-5.01 | Temporary Cold Mix Asphalt | Square Yards | 100 | | \$ - |
| 02950-4.01.A-1 | Asphaltic Concrete Pavement Subgrade Removal and Replacement | Cubic Yards | 200 | | \$ - |
| 02950-4.01.A-2 | Asphaltic Concrete Pavement Replacement | Square Yards | 200 | | \$ - |
| 02950-4.01.A-3 | Concrete Pavement Removal and Replacement | Cubic Yard | 60 | | \$ - |
| 02950-4.01.C | Concrete Sidewalk Removal and Replacement | Square Feet | 600 | | \$ - |
| 02950-4.01.D | Concrete Curb and Gutter Removal and Replacement | Linear Foot | 240 | | \$ - |
| 02950-4.01.E | Gravel Driveway and Gravel Area Removal and Replacement with Crushed Stone | Ton | 10 | | \$ - |
| 71.0376 Manhole Adjustments Group 5 - Total Estimated Unit Price Value | | | | | \$ - |



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**Section 3
Updated Specification 02532**

**SECTION 02532
SANITARY SEWER MANHOLE ADJUSTMENT**

PART 1 GENERAL

1.01 SCOPE

- A. This Work shall consist of locating and adjusting existing sanitary sewer manhole frames and covers as necessary to conform to the existing street grades or as directed by the Purchaser in accordance with these Specifications.

PART 2 PRODUCTS

2.01 MATERIALS

A. Mortar

1. Mortar shall be composed of the following mixtures by volume: one part Portland cement, two parts sand, hydrated lime not to exceed 10 percent of the cement used, and four parts water. All ingredients shall be proportioned by measurement and not by estimation. All hydrated lime shall be as specified by ASTM C 6.
2. The mortar shall be hand mixed or machine mixed. In the preparation of hand mixed mortar, the sand, cement and hydrated lime shall be thoroughly mixed together in a clean, tight mortar box until the mixture is of uniform color, after which water shall be added. Machine mixed mortar shall be prepared in an approved mixer and shall be mixed not less than 1 ½ minutes. Mortar shall be used within 30 minutes after mixing.

B. Brick

1. All brick shall conform to the Specifications for Concrete Building Brick, ASTM C55 for Grade A. Bricks shall conform to the following dimensions, unless otherwise approved by the Purchaser.

| | Depth (Inches) | Width (Inches) | Length (Inches) |
|---------------------|-------------------|-------------------|--------------------|
| Standard Size | 2 ¼ | 3 ¾ | 8 |
| Allowable Variation | + ¼ | + ¼ | + ½ |

2. All bricks shall be new and whole, of uniform standard size and with substantially straight and parallel edges and square corners. Bricks shall be tough and strong and free from injurious cracks and flaws. Bricks shall be culled after delivery, if required, and all culls shall be removed from the work site.
3. The Subcontractor may be required to furnish the Purchaser with at least five bricks of the character and make he proposes to use, at least one week before any bricks are delivered for use. All bricks shall be of the same quality as the accepted samples.

C. Portland Cement Concrete

1. Portland cement concrete for adjustment of precast or poured-in-place concrete manholes shall be in accordance with Section 03050 Portland Cement Concrete.

D. Steel Reinforcement

1. Deformed steel reinforcing bar and welded wire fabric shall be of the grades, sizes and dimensions and at the designated spacing's and locations as shown on the plans or as directed by the Purchaser.

E. Manhole Frame & Cover

1. Manhole Frame & Covers shall be of the standard Memphis type in accordance with SARP10 Detail *Standard No. 7 Manhole Rim and Cover SST-5.*" The Subcontractor shall secure and provide the Frame and Cover.

F. Grade Adapter Ring

1. Grade adapter rings shall be of the standard Memphis type to fit frames and covers in accordance with SARP10 Detail *Standard No. 7 Manhole Rim and Cover SST-5.* The Subcontractor shall secure and provide the Grade Adapter Ring.

G. Paving Materials

1. Flexible pavement (asphaltic concrete) and rigid pavement (Portland cement) shall be restored in kind using materials in accordance with Section 02950 Removal and Replacement of Pavements and Incidentals.

H. Precast Concrete Manhole Sections

1. Precast concrete manhole sections shall be as specified in the City of Memphis Standard Construction Specification Section 02531 – Installation and Replacement of Manholes.

2.02 EQUIPMENT

- A. All equipment necessary for the satisfactory performance of this work shall be on hand and available before Work will be permitted to begin.

PART 3 EXECUTION

A. Locate Manhole

1. The Subcontractor shall be provided all available field records and plan information regarding the location of manholes that are not on grade and showing. Using field measurements, metal detectors, sonde, or other devices, the Subcontractor shall first locate the manhole cover to be raised to grade. The surface cover (asphalt, soil) shall then be removed and the manhole frame and rim exposed prior to adjustment. The differential height between the existing manhole rim and the street or easement surface shall be measured and this differential is the basis for the selection of the adjustment method and the payment.
2. The use of sonde shall be requested and approved by purchaser. The contractor must show where attempts have been made to raise manhole for sonde to be approved.

B. Manhole Adjustment with Adapter Rings (Adjustments <5")

1. For manhole covers to be raised less than or equal to 5 inches and where the total collar height would not exceed 18 inches, manhole adapter rings may be used if approved by the Purchaser. Adapter rings may be added to raise the cover a maximum of 5 inches. Adapter rings shall be tack welded to the existing rim at a minimum of 4 locations.

C. Standard Adjustment Method (Adjustments >5.1" & <18")

1. Any manhole covers not adjusted and set at final grade by others shall be adjusted by the Subcontractor. If the cover requires lowering, the manhole rim shall be removed, sufficient upper courses of brick removed, and the rim reset at proper grade by use of cement mortar over the top course of brick remaining.
2. If the cover requires raising, and reaching the required final rim elevation at grade will exceed the allowable maximum of 5-inches using adapter rings, all existing riser rings in the frame shall be removed and defective courses of brick shall also be removed, and the manhole shall be rebuilt to the final street or easement grade with the rim reset as described above.

D. Manhole Adjustments (>18.1")

1. For manhole covers more than 18 inches below grade, the Subcontractor shall be responsible for removing the existing cover or pavement, excavating to locate the actual depth of the existing manhole frame and cover, and raising the frame and cover in accordance with SARP10 specifications and details. Adjustments greater than 36" shall include replacing existing brick corbels sections with precast manhole sections and/or corbels to attach to the existing manhole structure.

E. Traffic Control

1. All traffic control shall be installed and maintained in accordance with the Manual on Uniform Traffic Control Devices (MUTCD). At a minimum, the Subcontractor must have two trucks with flashing yellow lights on the work site. Traffic cones must also be placed downstream of the construction site to divert cars into the adjacent lane(s) per MUTCD requirements. On roads with a heavy traffic volume, a flagman may also be needed to assist with traffic control.

F. Fall Protection

1. Subcontractor shall install and maintain all fall protection measures in accordance with the SARP10 Loss Control Manual. The Subcontractor shall construct a controlled access zone around the manhole being adjusted. At a minimum, the fall protection zone shall include traffic cones encircled with pennant tape. The controlled access zone must have one point of access with an entrance log.

G. Site Preparation and Restoration

1. The Subcontractor shall prepare and restore the site in accordance with Specification Section 02630 Site Preparation & Restoration. The Subcontractor shall remove the vegetated area around a manhole as needed to adjust the manhole frame and cover. All disturbed areas shall be restored as neatly as practical to their original condition. The disturbed area shall be cleared and raked to the level of the existing turf and then watered. New sod shall be installed over the entire disturbed area. New sod shall consist of live, dense, well rooted growth of Bermuda grass, free from Johnson grass, nutgrass, and other obnoxious grasses or weeds, well suited for the intended purpose and for the soil in which it is to be planted. All sod shall be cleanly cut in strips having a reasonably uniform thickness of not less than 2 inches and cut in 10 to 12 inch squares.

H. Removal & Replacement of Pavements Incidental

1. The Subcontractor shall remove and replace pavement and incidentals in accordance with requirements of Specification Section 02950 Removal and Replacement of Pavement and Incidentals.

I. Restoration of Road Surfaces

1. Flexible pavement (asphaltic concrete) and rigid pavement (Portland cement) shall be restored in kind using materials in accordance with Section 02950 Removal and Replacement of Pavements and Incidentals.

J. Hydroexcavation

1. In order to protect existing utilities, the Subcontractor shall cautiously hydroexcavate or hand excavate the entire perimeter of the excavation to a minimum depth of four feet to locate all underground obstructions within the excavation. The excavation method to be utilized on any given excavation (hydroexcavation or hand digging) is at the Subcontractor's discretion. When a water pipe, gas pipe, other sanitary sewer, storm drain, or similar utility comes within the limits of the trench, the Subcontractor shall hydroexcavate or hand dig at least eighteen-inches around the utility.

PART 4 MEASUREMENT & PAYMENT

4.01 MEASUREMENT

A. Manhole Adjustment with Adapter Rings (Adjustments <5")

1. Manhole adjustment with adapter rings will be measured per each.

B. Standard Manhole Adjustments (Adjustments >5.1" and < 18")

1. Standard manhole adjustments will be measured per each.

C. Manhole Adjustments (Adjustments >18.1" & <36")

1. Manhole adjustments will be measured per each.

D. Manhole Adjustments (Adjustments >36")

1. Manhole adjustments will be measured per vertical foot.

E. 1.5 – inch Manhole Adjustment Ring

1. Manhole adjustment rings will be measured per each.

F. 2 – inch Manhole Adjustment Ring

1. Manhole adjustment rings will be measured per each.

G. #7 Sewer Manhole Frame & Cover

1. Manhole frames and covers will be measured per each.

H. #7 Sewer Manhole Cover Only

1. Manhole covers will be measured per each.
- I. Site Preparation and Restoration
 1. The area to be considered for measurement will be the limit of the construction area unless otherwise directed by the Purchaser.
 - J. Sonde Used to Locate Manhole
 1. Sonde use to locate manholes will be measured per each manhole employed.

4.02 PAYMENT

- A. Manhole Adjustment with Adapter Rings (Adjustments <5")
 1. The accepted quantities of manholes adjusted by the adapter ring method will be paid for at the contract unit price per each, for raising the manhole cover to final grade, which price will be full compensation for furnishing all labor, materials, traffic control, and **hydroexcavation or hand digging** necessary for the complete adjustment of the cover to the satisfaction of the Purchaser. If a manhole adjustment is attempted but the manhole is deemed at grade then ~~and all due diligence is performed but the adjustment cannot be completed~~, the Subcontractor shall be paid 25% of this unit rate for the attempt. This item will not be paid until submittal and approval of the post construction inspection data associated with the manhole.
- B. Standard Manhole Adjustments (Adjustments >5.1" and < 18")
 1. The accepted quantities of manholes adjusted will be paid for at the contract unit price per each, for raising or lowering the existing or new manhole frame and cover to final grade, which price will be full compensation for furnishing all labor, materials, traffic control, and **hydroexcavation or hand digging** necessary for the complete adjustment of the frames and covers to the satisfaction of the Purchaser. This item will not be paid until submittal and approval of the post construction inspection data associated with the manhole.
- C. Manholes Adjustments (Adjustments >18.1" & <36")
 1. The accepted quantities of manholes adjusted will be paid for at the contract unit price per each, for raising or lowering the existing or new manhole frame and cover to final grade, which price will be full compensation for furnishing all labor, materials, traffic control, and **hydroexcavation or hand digging** necessary for the complete adjustment of the frames and covers to the satisfaction of the Purchaser. This item will not be paid until submittal and approval of the post construction inspection data associated with the manhole.
- D. Manhole Adjustments (Adjustments >36.1")
 1. The accepted quantities of manholes adjusted will be paid for at the contract unit price per VERTICAL FOOT, for raising or lowering the existing or new manhole frame and cover to final grade, which price will be full compensation for furnishing all labor, materials, traffic, and **hydroexcavation or hand digging** control necessary for the complete adjustment of the frames and covers to the satisfaction of the Purchaser. This item will not be paid until submittal and approval of the post construction inspection data associated with the manhole.
- E. 1.5 – inch Manhole Adjustment Ring

CITY OF MEMPHIS – STANDARD CONSTRUCTION SPECIFICATIONS
Modified by SARP10 Program

1. Manhole adjustment rings will be paid per each. This payment shall include procurement of the manhole adjustment ring and delivery to the site. This item will not be paid until submittal and approval of the post construction inspection data associated with the manhole.

F. 2 – inch Manhole Adjustment Ring

1. Manhole adjustment rings will be paid per each. This payment shall include procurement of the manhole adjustment ring and delivery to the site. This item will not be paid until submittal and approval of the post construction inspection data associated with the manhole.

G. #7 Sewer Manhole Frame & Cover

1. Manhole frames and covers will be paid per each. This payment shall include procurement of the manhole frame and cover and delivery to the site. This item will not be paid until submittal and approval of the post construction inspection data associated with the manhole.

H. #7 Sewer Manhole Cover Only

1. Manhole covers will be paid per each. This payment shall include procurement of the manhole adjustment ring and delivery to the site. This item will not be paid until submittal and approval of the post construction inspection data associated with the manhole.

I. Site Preparation & Restoration

1. Payment will be made for Site Preparation and Restoration at the price, per each construction area which will be full compensation for removal of trees, shrubs, plants, brush, rubbish, fences, manmade obstructions including but not limited to structures, abandoned cars and appliances, building foundations, and all other obstructions as may be directed by the Purchaser; the disposal of debris, removing of obstructions, and the restoration of fences, turfed areas, and all other items will be as specified in the Plans and Contract Documents or as directed by the Purchaser. Manhole adjustments completed in improved areas will not be paid Site Preparation and Restoration unless otherwise directed by the Purchaser.

J. Sonde Used to Locate Manhole

1. Payment will be made for use of a Sonde to successfully locate and raise a buried manhole that cannot be located after attempting other means. Sonde use must be approved in advance by the Purchaser.

CITY OF MEMPHIS – STANDARD CONSTRUCTION SPECIFICATIONS
Modified by SARP10 Program

4.03 PAYMENT WILL BE MADE UNDER:

| Item No. | Pay Item | Pay Unit |
|--------------|--|---------------|
| 02532-4.02.A | MANHOLE ADJUSTMENTS WITH ADAPTER RINGS (ADJUSTMENTS <5") | EACH |
| 02532-4.02.B | STANDARD MANHOLE ADJUSTMENT (ADJUSTMENT >5.1" AND <18") | EACH |
| 02532-4.02.C | STANDARD MANHOLE ADJUSTMENT (ADJUSTMENT >18.1" AND <36") | EACH |
| 02532-4.02.D | STANDARD MANHOLE ADJUSTMENT (ADJUSTMENT >36.1") | VERTICAL FOOT |
| 02532-4.02.E | 1.5 – INCH MANHOLE ADJUSTMENT RING | EACH |
| 02532-4.02.F | 2 – INCH MANHOLE ADJUSTMENT RING | EACH |
| 02532-4.02.G | #7 SEWER MANHOLE FRAME AND COVER | EACH |
| 02532-4.02.H | #7 SEWER MANHOLE COVER ONLY | EACH |
| 02532-4.02.I | SITE PREPARATION AND RESTORATION | EACH |
| 02532-4.02.J | SONDE TO LOCATE MANHOLE | EACH |

END OF SECTION 02532