

To: All Plan Holders of Record

From: CT Consultants, Inc.
For the Owner

Re: *Addendum No. 1*
Rock Swale Sewer Improvements Phase 1
City of Marion

Date: November 1, 2024

This Addendum forms a part of the contract documents and modifies the original bidding documents dated October 2024 and all previous addenda, if any. Acknowledge receipt of this addendum in the space provided in the bid forms. Failure to do so may subject the bidder to disqualification.

BID OPENING DATE

The date of receiving and opening bids shall be changed from November 14, 2024 to December 5, 2024. The time and place shall remain the same.

QUESTIONS AND ANSWERS

- Q1. Is it possible to provide another set of plans or videos.
- A1. Yes. Attached are Cross Sections the sewer from Manhole HB to Manhole 12. The cross sections have a height and width for every 10' of sewer and have corresponding PACP logs (Version 2). The PACP logs attached (Version 2) with the cross sections are associated with the video from the laser profiling and do have some variances from the PACP logs prepared by Equix (Version 1) that were included in the original bid.
- Q2. Please clarify if the 72" pipe is egg, arch or circular. If egg or arch please provide height and width measurements.
- A2. The sewer generally reflects a 72" Brick Arch Sewer. Please reference the attached cross sections for each section of sewer when determining the liner type and thickness that meets the minimal physical properties structural requirements in the specifications and plans.
- Q3. Do you have flow data that you can provide?
- A3. General flow conditions are included in the specification section 330130.03 - Sewer Flow Control. Please refer to this for developing dry and wet weather bypass flow plans.

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Q4. Can you provide a one-month extension to be able to provide a responsive bid?

A4. Project has been extended 2 weeks from the original opening date. The time and location of the bid opening shall remain the same.

Q5. How will the Contractor be paid for void filling within the sewer sections?

A5. A pay item "Void Fill and Seal, As Per Plan" will be added to Alternates A, B, and C. Updated bid forms will be in Addendum 2.

BID DOCUMENTS

Replace Prices to Include, Pages BD.9 to BD.16, with the enclosed Prices to Include, Pages BD.9A to BD.16A.

SPECIFICATIONS

Specification Section 011100 – Summary of Work, Part 1.4 A. Reference Documents:

1. Soil Borings are forthcoming.
2. Laser Profiling Documents with corresponding PACP logs were relied upon by the Engineer in the preparation of drawings and specifications. Copies of the documents may be examined on the internet at <https://bids.ctconsultants.com> but are not considered to be part of the bid documents.
See folder Reference Documents - Summary of Work - Item 1.4 A. 2.
3. MACP Logs are already posted to the web in the CCTV and Manhole Inspections folder.

MD/TM:mep

Enclosures

H:\2024\242139\SPEC\Addenda\Addendum 01\Addendum 01.Doc

PRICES TO INCLUDE

PART 1 - GENERAL

Any work shown on the plans or required in the specifications but not paid for separately as a bid item shall be included in the cost of other bid items. The amount bid for each Bid Item shall include the following:

- 1.1 All labor, materials, tools, equipment, and transportation necessary for the proper execution of the work in accordance with the Contract Documents.
- 1.2 All assistance required by the Engineer to verify compliance with the Contract Documents, including measuring for final pay quantities.
- 1.3 Project coordination and scheduling.
- 1.4 Detailed breakdown of lump sum bid items as requested by the Engineer.
- 1.5 All provisions necessary to protect workers, the general public, and property along the work in accordance with the Contract Documents.
- 1.6 Protection and/or replacement of existing property corner monuments.
- 1.7 Record drawings of the installed location of all underground electrical conduit, sewers, tees, wyes, laterals, etc.
- 1.8 Materials testing.
- 1.9 Reimbursement to Owner for costs of re-inspection or re-testing of any work not installed in compliance with the Contract Documents.
- 1.10 Construction staking of the improvements.
- 1.11 Bonds and Insurances
- 1.12 Mobilization and setup of laydown and storage areas for equipment, materials, tools, and other items necessary for construction of improvements.
- 1.13 Preconstruction video to document existing surface conditions prior to construction.
- 1.14 Maintaining traffic in accordance with ODOT Item 614 and the Ohio Manual of Uniform Traffic Control Devices, including all equipment, materials, and labor necessary to implement necessary devices. This includes any coordination and permitting associated with required detours during the course of construction.
- 1.15 Seeding & Mulching including grading, topsoil, seed, mulch, fertilizer, lime, watering & mowing.
- 1.16 All erosion control measures in accordance with the Contract Documents.
- 1.17 Shoring system design, material, and implementation
- 1.18 All submittals and design noted as required within the Summary of Work

These items shall cover both all work within the base bid and alternative bid that is awarded. The Contractor shall include these costs in the items associated with each alternative bid they submit for. It shall be noted that only one alternative bid will be selected along with the base bid and if the Contractor submits bids for multiple alternatives, each alternative will include these items plus the cost of the items associated with the Base Bid.

PART 2 - ITEMS

BASE BID – MANHOLE IMPROVEMENTS

All work proposed by this contract shall be quantified and paid for in accordance with the pertinent O.D.O.T. specification except as specifically altered by other provisions of this contract.

2.1 (604) MANHOLE REHABILITATION, CLEANING, REPAIRS, AND LINING, AS PER PLAN

Method of Measurement

The method of measurement shall be per each manhole to be repaired and rehabilitated as detailed and prescribed in the “Manhole Improvement Schedule” in the detailed drawings. No additional payment shall be made for any diameter or net area that exceeds a noted diameters within the schedule or variations in depth measured in the field by the Contractor.

Basis of Payment

The unit price paid shall include sewage flow control; cleaning, grouting and injection materials, lining of manhole, chimney seals, and the furnishing of labor, materials, tools and appurtenances necessary to complete the work as specified or as shown. The liner thickness shall be per the approved manufacturer’s recommendations. Any additional rehabilitation such as replacement of bricks or manhole patching necessary to complete the specified improvements that is not currently identified in the drawings shall be included within this item.

2.2 (611) MANHOLE, ADJUSTED TO GRADE, METHOD D.1, (BRICK), AS PER PLAN

The work, method of construction and materials for various street castings adjusted to grade shall be in accordance with ODOT Item 611 with the following modifications:

1. Metal adjusting rings or castings shall not be used. Existing risers shall be removed during the casting adjustment.
2. Brick used shall be clay or shale brick meeting the requirements of ASTM C32 sewer brick, Grade SM.
3. Concrete brick or masonry block shall not be used.
4. The height limitation for additional compensation shall be revised from one (1) foot to two (2) feet.
5. Type QC MS concrete shall be used for fill around all castings.
6. All costs for work and material associated with incorporating a new style casting designated by the City which may include steel plates, corbelling, and/or shifting the casting to its proper location shall be included in this Item.

Method of Measurement

The quantity to be paid for of each manholes adjusted to grade to be paid for shall be the actual number adjusted to grade in accordance with the contract, contract drawings and these specifications. Adjusting to grade of items proposed for new or replaced construction as part of the project will not be measured and shall be paid for in the cost of installation of that item.

Basis of Payment

The unit price stipulated, each, for manholes adjusted to grade to be paid for under this Item shall be full compensation for furnishing and placing all material including removal, cleaning, storage and resetting of salvaged casting or new casting; pavement saw cutting, resetting of loose brick work if needed, 3/4-inch steel plates, and furnishing of all labor, tools, and necessary appurtenances to complete the work as specified or as shown on the contract drawings.

2.3 (611) SANITARY MANHOLE, ALL SIZES AND TYPES, AS PER PLAN

Method of Measurement

The number of each Type “E” manholes or manhole constructed using an access tee and riser with concrete collar (see construction detail “Access Riser & Reinforcement Installation”) to be paid for shall be the actual number furnished and built in place in accordance with the contract drawings and with these specifications.

Basis of Payment

The unit price bid for sanitary structures shall be irrespective of the depth of the manhole structures, and shall include the furnishing and construction in place of the manholes and junction chambers complete with excavation foundation; backfill; frame and cover; steps; concrete; steel reinforcement; lining material; bricks; mortar; plastering; precast manhole sections; access tee with riser pipe; concrete collar; transition; flexible joints; furnishing, installing and operating necessary pumps, pipes and appurtenances necessary for flow bypassing and/or trench dewatering granular backfill under proposed or existing pavements, walks, drives, existing drainage structures, and disposal of all undesirable material; testing and inspections; and the furnishing of all labor, materials, tools and appliances necessary to complete the work as specified or as shown. Adjustments in final casting elevations of plus or minus one (1) foot shall be included in the price for each structure.

The unit price shall also include the furnishing of all labor, materials, tools and equipment necessary to install and safely remove construction pits and pipe bracing as designated in the Detailed Drawings. Engineering details and plans associated with the submittals for these items shall be included in this pay item.

2.4 (611) 72 INCH SANITARY SEWER, ADDITIONAL FOOTAGE, CONTINGENCY, AS PER PLAN, AS DIRECTED

The work, method of construction and materials for sewer construction shall be in accordance with ODOT Item 611 with the modifications shown on the improvement plans and detailed in the specifications.

Method of Measurement

The quantity of sewer to be paid for shall be determined for gravity sewers by the linear feet difference in horizontal stationing from the tie in location at the manhole to the location where the sewer is joined with the existing brick sewer by concrete collar. If the sewer is joined between two sections of pipe, the difference in horizontal stationing from each concrete collar where the new point joins to the existing brick sewer shall be used to determine the linear feet installed.

Basis of Payment

The unit price stipulated per lineal foot for sewer pipe of the various sizes and types specified shall be irrespective of class of pipe and depth and if not called out as a separate pay item, shall be full compensation for maintenance of traffic for the duration of the project; earth and/or rock excavation for the pipe and foundation for same, including clearing and grubbing; removal of all materials necessary for placing the pipe, the complete removal hauling, and disposal of the existing sewer, manholes and catch basins except materials listed separately; furnishing and placing granular or concrete bedding and special backfill as required, testing of compaction, constructing and subsequently removing all necessary boring and receiving pits, cofferdams, cribs, sheeting and shoring; furnishing, installing and operating necessary pumps, pipes and appurtenances necessary for flow bypassing and/or trench dewatering; sealing or banding all pipe joints where required; furnishing and installing of the pipe jointing materials and all necessary plugs, bulkheads, bends, fittings, specials and branches of a type at least equal to the conduit of which it becomes part; furnishing and installing concrete encasements, boring and steel casing pipe where required; protection, verification and/or replacement of all existing utilities, i.e., gas mains, gas connections water mains (including hydrants and their connections to the main), water connections, water wells, septic tanks, sanitary sewers, sanitary connections, storm sewers, storm connections, curb drains, catch basins, culverts, electric or telephone underground cables and/or underground connections if damaged by the Contractor; protection of existing trees or vegetation; joining of the pipe to existing and proposed manholes, catch basins, structures, and other appurtenances as required whether temporary or permanent; leakage testing or internal videotaping; disposal of all surplus and unsuitable materials; furnishing and installing temporary stone trench topping of pavement and driveways; removal and replacement of poles, posts, signs, mailboxes, paper boxes, fences, landscape timbers, guardrails, sign wiring, fixtures and other appurtenances; removal and replacement of any damaged curbing, sidewalk, driveways, parking lots and roadways as directed by the Engineer; and the furnishing of all labor, tools, materials and equipment necessary to complete the work as specified or as shown.

2.5 (SPC) TYPE "C" PAVEMENT REPLACEMENT (ASPHALT), ROADWAY, AS PER PLAN

Method of Measurement

The method of measurement shall be as per ODOT 253 or 255 as applicable with the exception that lengths used for calculation of each individual repair area shall not exceed the maximum pay length indicated on the drawings.

Basis of Payment

The basis of payment shall be as per ODOT 253 or 255 as applicable with the following additions:

The unit price shall also include saw cutting; integral or non-integral curb removal; integral curb replacement; furnishing, installation, maintenance, removal, and disposal of temporary road materials or temporary pavement courses; preparation for permanent pavement courses; and any additional expenses for cold weather protection.

2.6 (603) 66 INCH - 84 INCH SANITARY SEWER HEAVY CLEANING, AS PER PLAN

Method of Measurement

The quantity to be paid shall be the number of linear feet cleaned per the specifications measured along the centerline of the pipe. Starting and end points shall be field determined and agreed upon by the Engineer and Contractor prior to commencement of cleaning.

Basis of Payment

The unit prices for the various sizes of pipes shall include furnishing water, cleaning equipment, root removal, the complete removal and disposal of debris as per NASSCO guidelines for heavy cleaning of sewers. This item shall include pre and post cleaning CCTV per NASSCO guidelines. Any section that is reviewed by the Engineer and determined to not be completely cleaned shall be recleaned and televised at no additional cost to the Owner.

2.7 (680) BYPASS PUMPING, AS PER PLAN

Method of Measurement

The quantity to be paid shall be paid for by each day in which bypass pumping will be actively utilized. This shall only be for where flow is physically pumped from one section of a sewer to another downstream entry point within that sewer. Any form of temporary plugging that does not require bypass shall be included in the sewer improvement items for which are to be performed under the selected alternative.

Basis of Payment

The unit price shall include all equipment, materials, labor, appurtenances, mobilization, electrical equipment and temporary power sources, removal of systems and restoration (including cleaning and removal of any solid buildup caused from the temporary bypass systems to adequately implement and maintain a bypass pumping system for installing all noted improvements and maintaining flow within the system.

This item shall also include all engineering and plans necessary to design the bypass system.

2.8 (603) 72 INCH CURED-IN-PLACE PIPE LINING, AS PER PLAN

Method of Measurement

The quantity to be paid shall be the number of linear feet installed per the specifications measured inside wall to inside wall of manholes for the mainline. This pay item is for a 72" Egg sewer that has noted variations in height to width ratio. Any variation between MH1 to MH12, whether less or greater in total perimeter of or shape of the each cross section of sewer, shall not have any modification in price and the Contractor shall account for the variations when determining their unit cost.

Basis of Payment

The unit prices for the various thicknesses of liner pipe shall include sewer cleaning, measurements of existing pipe size and length to verify plan notes, determination of live connections, sewage flow control not included in other pay items, all liner system materials, installation, processing and cooling, sealing of liner at manholes, testing, post-installation video recording, cleanup, restoration, and the furnishing of all labor, material, tools and appurtenances necessary to complete the work in accordance with these specifications, the manufacturer's recommendations, or as shown. The minimum thickness of the liner material shall be as specified.

2.9 (603) 72 INCH SLIP LINING, AS PER PLAN

Method of Measurement

The quantity to be paid shall be the number of linear feet installed per the specifications measured inside wall to inside wall of manholes for the mainline. This pay item is for a 72" Egg sewer that has noted variations in height to width ratio. Any variation between MH1 to MH12, whether less or greater in total perimeter or shape of each cross section of sewer, shall not have any modification in price and the Contractor shall account for the variations when determining their unit cost.

Basis of Payment

The unit prices for the various thicknesses of liner pipe shall include sewer cleaning, measurements of existing pipe size and length to verify plan notes, determination of live connections, sewage flow control not included in other pay items, all liner system materials, installation, processing and cooling (where necessary), sealing of liner at manholes, testing, post-installation video recording, cleanup, restoration, and the furnishing of all labor, material, tools and appurtenances necessary to complete the work in accordance with these specifications, the manufacturer's recommendations, or as shown. The minimum thickness of the liner material shall be as specified.

2.10 (SPC) MISCELLANEOUS SEWER IMPROVEMENT, AS PER PLAN

Method of Measurement

This item is designated for an alternative sewer improvement by the Contractor that is not explicitly specified in Alternative 1 or Alternative 2. The Contractor shall as a part of submitting a bid for this item provide the materials, means, and methods for installation of the proposed rehabilitation system. The item shall be paid for by per linear foot based on the horizontal stationing of from which the improvements start to where they are completed.

Basis of Payment

For interior rehabilitation based methods, the Contractor shall submit the unit prices for the various thicknesses of liner pipe shall include sewer cleaning, surface preparation, measurements of existing pipe size and length to verify plan notes, determination of live connections, sewage flow control not included in other pay items, all liner system materials, installation, processing and cooling (where necessary), sealing of liner at manholes, reinforcement, testing, post-installation video recording, cleanup, restoration, and the furnishing of all labor, material, tools and appurtenances necessary to complete the work in accordance with these specifications, the manufacturer's recommendations, or as shown. The minimum thickness of the liner material shall be as specified.

For any replacement or methods that requires excavation outside of installation access points, the Contractor shall submit a under a unit price stipulated per lineal foot for sewer pipe of the various sizes and types specified shall be irrespective of class of pipe and depth and if not called out as a separate pay item, shall be full compensation for maintenance of traffic for the duration of the project; earth and/or rock excavation for the pipe and foundation for same, including clearing and grubbing; removal of all materials necessary for placing the pipe, the complete removal, hauling, and disposal of the existing sewer, manholes and catch basins except materials listed separately; furnishing and placing granular or concrete bedding and special backfill as required, testing of compaction, constructing and subsequently removing all necessary boring and receiving pits, cofferdams, cribs, sheeting and shoring; furnishing, installing and operating necessary pumps, pipes and appurtenances necessary for flow bypassing and/or trench dewatering; sealing or banding all pipe joints where required; furnishing and installing of the pipe jointing materials and all necessary plugs, bulkheads, bends, fittings, specials and branches of a type at least equal to the conduit of which it becomes part; furnishing and installing concrete encasements, boring and steel casing pipe where required; protection, verification and/or replacement of all existing utilities, i.e., gas mains, gas connections water mains (including hydrants and their connections to the main), water connections, water wells, septic tanks, sanitary sewers, sanitary connections, storm sewers, storm connections, curb drains, catch basins, culverts, electric or telephone underground cables and/or underground connections if damaged by the Contractor; protection of existing trees or vegetation; joining of the pipe to existing and proposed manholes, catch basins, structures, and other appurtenances as required whether temporary or permanent; leakage testing or internal videotaping; disposal of all surplus and unsuitable materials; furnishing and installing temporary stone trench topping of pavement and driveways; removal and replacement of poles, posts, signs, mailboxes, paper boxes, fences, landscape timbers, guardrails, sign wiring, fixtures and other appurtenances; removal and replacement of any damaged curbing, sidewalk, driveways, parking lots and roadways

as directed by the Engineer; and the furnishing of all labor, tools, materials and equipment necessary to complete the work as specified or as shown.

2.11 (SPC) VOID FILL AND SEAL, AS PER PLAN

Method of Measurement

The quantity to be paid shall be for each individual location where injection of material to fill and seal the void is required. The amount of material shall to be paid under one (1) fill and seal shall be any space that requires filling within a 6' radius from the point of injection.

Basis of Payment

The unit price shall be irrespective of the depth of pipe and location of the void between manholes; equipment, tools, materials, and personal necessary to perform OSHA permitted confined spaced entries; all pumping required for adequate handling of flow bypassing, underground water and/or surface water; equipment and material required to fill voids from the within or above pipe; site cleanup; cutting of excess material after curing; removal, hauling, and disposing of excess void fill and sealant to an approved waste facility; pre and post construction video of each stretch of sewer in accordance with NASSCO PACP guidelines; photo/video documentation of joints prior to construction, during injection, after curing, and after restoration of surface; and the furnishing of all labor, materials, tools and appurtenances necessary to complete the work as specified or as shown.