

ADDENDUM NO. TWO

**144TH AVENUE WIDENING –
YORK STREET TO COLORADO BOULEVARD**

PROJECT NO. 18-182

CITY OF THORNTON, CO

TO: Prospective Bidders and all others concerned

DATE: November 1, 2021

PURPOSE: To provide additional information and clarification to the solicitation documents for the above-referenced Project.

1. The following shall Add to, Modify, and/or Delete portions of the Project Manual and Drawings for the Project-noted above.

A. The Project Manual shall be modified as follows:

- a. The section titled “Bid Proposal” is deleted in its entirety and replaced with the “Revised Bid Proposal, Amendment No. 2”. Please note changed items are highlighted for convenience. The Revised Bid Proposal can be found on the COT Website.
- b. A revised report titled “Geotechnical Engineering Addendum No. 1 – Pavement Thickness Design” is added to the Contract Documents list and is available on the COT website.
- c. Project Technical Specification Sections 210, 403, 624, and 627 have been revised. Updated versions of these Sections are available on the COT website.

B. The Drawings shall be modified as follows:

Sheets 4, 5, 7, 10, 18, 19, 21, 22, 25, 26, 27, 28, 29, 31, 38, 39, 40, 41, and 42 have been revised. The full set of the revised Contract Drawings, to include revisions annotated in red, can be found on the COT website.

2. The following questions and answers are provided for additional clarification to the Contract Documents.

Question 1: In Addendum No. 1, the COT received the following questions, but is now providing a revised response. “For line-item numbers 116 and 117 – Preformed Plastic Pavement Marking – 4 inch & 8 inch (special)

– does the City want this in 380 tape or 270 tape or other?” and “For line items No. 118 and 119 – Preformed Plastic Pavement Marking – word / symbol & Xwalk / Stop bar (special) – does the City want this in 380 tape or 270 tape or other?”

Answer 1: Pay items 116-119 have been changed to preformed thermoplastic. Preformed plastic (3M 270 ES tape or approved equal) is an acceptable alternative for long lines and skips (pay items 116-117). Contrast coloring like CDOT Type 2 is not required. Specifications (section 627), plans, and bid sheet are updated accordingly.

Question 2: “The pavement section in the plans shows all of the asphalt to be PG 64-22 but there is a pay item for PG 76-28?”

Answer 2: The top lift asphalt shall be PG 76-28. The typical sections in the plans have been amended to show the correct asphalt type.

Question 3: “Will adjustments to valve boxes and manholes in the asphalt planing sections be paid for by unit prices or is it included in the work?”

Answer 3: Per specifications section 403.03 “At locations where utility valves and manholes are in areas of mill/overlay only, minor adjustments may be needed. These adjustments will not be measured and paid for separately but shall be included in the work”. Utility lids shall be ¼ inch to ½ inch below the finished surface of the roadway per the specifications.

Question 4: “Could you please provide specification on the Glaspave that is denoted on the same typical section? Does the Glaspave go full width or just on the mill and overlay section? How is this item being paid for? Also, there is a note that says to crack fill prior to overlay. We have not had great luck with this method as the crack fill tends to heat up and cause air bubbles under the freshly placed new asphalt. Assuming you desire to move forward with the crack fill, will there be a new bid item added to accommodate this work?”

Answer 4: After further consideration, Glaspave will not be used on this project, nor will a different interlayer be used. The crack fill instructions came from the Glaspave manufacturer’s instructions; therefore, crack fill will not be performed either. No bid items will be added for Glaspave or crack fill. The plans have been updated to remove occurrences of this work, but any mention unintentionally remaining is also nullified.

Question 5: “Could you please provide specifications for the fiber reinforcement and asphalt mix design?”

Answer 5: Section 403 of the specifications has been updated with asphalt mix design and fiber reinforcement product information.”

Question 6: "Typical section 8 shows 10-inch Aggregate Base Course (ABC) installed under the 9-inch Full Depth Asphalt typical section. Please confirm this is the only typical section which requires ABC in the full depth asphalt section. Additionally, this quantity does not appear in the tabulation for proposed construction, please clarify."

Answer 6: The Aggregate Base Course label in typical section 8 was a clerical error. None of the full depth asphalt sections include Aggregate Base Course. The plans have been updated accordingly.

Question 7: "Is there a fixed amount to enter into the force account items?"

Answer 7: Yes. The revised Project Bid Sheets have been updated to reflect the fixed amount.

Question 8: "The bid schedule says the 7x5 concrete box culvert is install only, is this already being built and purchased by Thornton? If so, how far along is the box and when is the city expecting it to be completed?"

Answer 8: The procurement of the box culvert is currently in progress with an expected ready date in mid-December. Please note the COT has place the order and paid for the material, but the Contractor will be responsible for coordinating the delivery of the material to the site.

Question 9: "Will RTD require the contractor to obtain an entry agreement or provide special insurance, flagger/watchman, traffic control for the asphalt and concrete tie ins to the railroad?"

Answer 9: RTD will require a right of entry that will be similar in nature to the example provide on the COT Website. Rail protective insurance, flagger/watchman, and rail traffic control are not required as this section of track is out of service.

Question 10: "Will RTD's work be 100% self-performed?"

Answer 10: RTD's work is anticipated to be performed by RTD staff or one of their rail contractors. Any required scope of work pertaining to the rail crossing and not shown or described in the Contract Documents would be subject to an equitable adjustment.

Question 11: "The Storm Drainage Pipe Bedding Detail on sheet DT07 states 12 inches of gravel and geotextile may be required under RCP, PVC, and HDPE in areas of high groundwater or unsuitable sub-grade. Should the contractor account for the 12 inches of gravel and geotextile under the HDPE and RCP drainages in this project?"

Answer 11: Bid item 59 "Aggregate Base Course (Class 6) (Special)" was

increased by 374 Cubic Yards, calculated as 70% of the total pipe length times the respective minimum trench widths times a 12-inch foundation depth. Drainage and irrigation pipe foundation will be paid based on the actual amount required as approved by the Engineer based on conditions in the field. Geotextile shall be incidental to the work. Section 624 of the specifications has been updated accordingly.

Question 12: “Bid item 57 – Tree (Special) – What is the requested caliper size and species of the replacement trees?”

Answer 12: Trees at stations 50+13 and 50+17 were removed by a previous project. The tabulation, plans, and bid sheets were updated accordingly. Remaining tree replacements shall be 6 foot tall Evergreen of the same species as the adjacent trees.

Question 13: “Will a bid item be added for the modification to existing sanitary sewer manhole required to install sanitary sewer lateral?”

Answer 13: Yes. See bid item 124 on the revised bid sheets.

Question 14: “The quantity for Bid Item 100 - 12 In PVC Bend with Thrust Block is 8 Linear Feet, but the drawings show 8 LF at both stations 230+96.7 (ST04) and 1+67.1 (IR06). Additionally, Sheet ST03, storm plan and profile for 18-inch Reinforced Concrete Pipe connection at Sta. 221+47 states to relocate the 12-inch PVC Waterline. On Sheet ST05, storm plan and profile for 18-inch Reinforced Concrete Pipe connection at Sta. 240+96 states to relocate the 12-inch PVC Waterline. Will these be performed by the contractor, or will quantity be added for these relocations?”

Answer 14: In the revised Bid Sheets, Bid item 103 “12 Inch Plastic Pipe” was increased by 31 Linear Feet and Bid item 100 “12 Inch PVC Bend with Thrust Block was increased by 8 Linear Feet.

Question 15: “Will a Clean Culvert or removal of debris bid item be added for the note on ST03 which calls for the contractor to clean existing blockage within the 24-inch RCP West of Manhole B: EX1?”

Answer 15: Yes, see bid item 125 on the revised Bid Sheets. The revised quantity is based on the manhole-to-manhole length.

Question 16: “It appears that bid item 71 - 10x5 box culvert may have a typo in the quantity. The quantity listed is 128 feet but there appears to only be 12 feet shown in the tabulations. Please clarify.”

Answer 16: The correct quantity is 12 feet. Please see the revised Bid Sheets.

Question 17: "The reset fence metal 3 rail appears to be gone. The stationing shown in the plans has no fence and you can see where it was removed. Will the contractor have to provide new fence, or is it stockpiled somewhere for reset?"

Answer 17: The property owner was compensated for fence reset, large willow tree removal (sta. 40+23.81, 53.9' L), and shrub (lilac bush) removal as part of the easement acquisition. Consequently, bid item 50 "reset fence (metal – 3 rail)" is reduced to zero (0) linear feet, bid item 3 "removal of tree" is reduced by 1 each, and removal of approximately 100 lilac bushes (sta. 34+88 to 42+15) is no longer included in bid item 1 "Clearing and Grubbing.

Question 18: "Could you please post the Addendum 1 to the Geotech report?"

Answer 18: Yes. This addendum adds the Geotechnical Report Addendum to the Contract Documents. It is available on the COT website.

Question 19: "Can additional information and/or specifications for the canal gate be provided by the engineer?"

Question 20: "Where is the 25 feet of 18-inch welded steel pipe in the plans? Can a pay item be created for 24-inch steel casing on sheet IR06?"

Answer 20: These two questions refer to the same feature of work. Bid item 101 has been revised to 24-inch welded steel pipe.

3. This Addendum becomes part of the Contract Documents. All other conditions and requirements of the Contract Documents will remain unchanged. Receipt of this Addendum must be acknowledged in the space provided on the Bid Proposal Form in the Project Manual.

END OF ADDENDUM NO. TWO

DocuSigned by:
Jim Jensen 10/29/2021
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Jim Jensen Date
Contracts Manager

