

ADDENDUM NO. ONE
144TH AVENUE WIDENING –
YORK STREET TO COLORADO BOULEVARD
PROJECT NO. 18-182
CITY OF THORNTON, CO

TO: Prospective Bidders and all others concerned

DATE: October 26, 2021

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

1. The following shall Modify portions of the Project Manual for the Project-noted above.
 - A. The Project Manual shall be modified as follows:

The First Paragraph of the Invitation for Bid Proposals shall be deleted in its entirety and replaced with the following:

*“Sealed Bid Proposals for Construction of the **144th Avenue Widening – York Street to Colorado Boulevard, Project No. 18-182** will be received in the Contract Administration Office at the City of Thornton (Thornton) City Hall (2nd floor), 9500 Civic Center Drive, until **2:00 p.m., November 9, 2021**. At that time, bids will be publicly opened and read aloud.”*

Please note: All references to the bid due date within the Invitation for Bid Proposals are to be considered changed to **2:00 p.m. on November 9, 2021**.

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

Question 1: “Will pay items be added for Detour Pavement and Temporary Striping necessary to facilitate traffic during construction of the Signal Ditch Box Culvert?”

Answer 1: The suggested phasing plan is a non-binding suggestion and not the only means of satisfying the traffic control requirements identified in the specifications. The quantities associated with these items are dependent on the contractor’s means and methods. Detour paving, Temporary Striping, and any other related items for safely handling traffic to facilitate construction activities shall be paid under the Traffic Control lump sum pay item. The contractor should not assume a full closure of 144th Avenue will be allowed.

Question 2: “Are minutes or attendance sheet available of the Utility Project Meeting with CenturyLink and Xcel (held 10/10/2019) referenced in the Technical Specifications?”

Answer 2: No minutes are available from the referenced meeting. Personnel present included Grant Bloom (City of Thornton), Derek Schuler (Drexel, Barrell & Associates), Justin Metzler (Terra Tech for Century Link), and Branda Sloan (Pike Electric for Xcel Energy).

Question 3: “The Signal Ditch milestone is noted as March 15th, 2021. Will the CenturyLink utility in conflict with the southern portion of the box culvert be relocated with enough time to complete the box culvert by the milestone?”

Answer 3: Yes.

Question 4:” 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?”

Answer 4: In accordance with project specifications section 627, Materials section, Item 1.C “Symbols, legends, long lines, skips, stop bars and crosswalks shall be 3M Series 270 ES or approved equal. For concrete pavement, long lines and skips shall be 3M Series 380I-5ES or approved equal.”

Question 5:” 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 5: In accordance with project specifications section 627, Materials section, Item 1.C “Symbols, legends, long lines, skips, stop bars and crosswalks shall be 3M Series 270 ES or approved equal. For concrete pavement, long lines and skips shall be 3M Series 380I-5ES or approved equal.

Question 6: “Would the City be open to allowing polypropylene pipe as an alternate to reinforced concrete pipe?”

Answer 6: Yes, under the conditions of the product approval letter dated February 28, 2020 (attached).

Question 7: “Can the City provide an Excel format bid schedule?”

Answer 7: No. Bid Sheets are provided as a courtesy for prospective bidders on the City of Thornton Website in a “Soft” version via a Word document.

Question 8: "Is there an Engineer's Estimate?"

Answer 8: The budgetary range for this project is \$3.5M to \$4.5M.

Question 9: "Can the inlets be precast?"

Answer 9: Yes.

3. The Pre-Bid Conference Minutes are attached for additional information.
4. 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. ONE

DocuSigned by:
Jim Jensen 10/26/2021
E037D2786399403...

Jim Jensen Date
Contracts Manager



Infrastructure Maintenance Center
12450 Washington Street
Thornton, CO 80241-2405

Infrastructure Department
720-977-6210
FAX 720-977-6201
www.ThorntonCO.gov

February 28, 2020

Mr. Evan Fischgrund, P.E.
Advanced Drainage Systems, Inc.
6800 Smith Road
Denver, CO 80207

RE: Approval of Advanced Drainage Systems, Inc. HP Storm Polypropylene Pipe for Storm Drainage Applications in the City of Thornton

Dear Mr. Fischgrund:

The city of Thornton is allowing the limited use of polypropylene pipe for storm sewer conveyance within the public right-of-way as an alternative to the currently specified storm sewer pipe materials identified in Section 400 - Storm Drainage Design, Grading, and Water Quality Technical Criteria of the City of Thornton Standards and Specifications (Standards and Specifications). The following conditions apply:

- Polypropylene pipe will be allowed in Thornton's right-of-way per the requirements listed in this approval letter.
- Until the Standards and Specifications are updated, use of polypropylene pipe will be subject to the requirements listed below. Once the Standards and Specifications are updated, they will supersede this approval letter. Polypropylene pipe ranging from 18-inch to 60-inch diameter will be allowed.
- Referenced specifications shall include:
 - ASTM D2321, Underground Installation for Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications
 - ASTM F477, Elastomeric Seals (Gaskets) for Joining Plastic Pipe
 - ASTM F2764, 6 to 60-inch (150 to 1500 mm) Polypropylene (PP) Corrugated Double Wall Pipe and Triple Wall Pipe and Fittings for Non-Pressure Sewer Applications
 - ASTM F2881, Standard Specification for 12 to 60-inch (300 to 1500 mm) Polypropylene (PP) Dual Wall Pipe and Fittings for Non-Pressure Storm Sewer Applications
- Unless otherwise noted, pipe installation shall meet the standards specified in Section 400 - Storm Drainage Design, Grading, And Water Quality Technical Criteria of the Standards and Specifications.
- Backfill materials per ASTM D2321 shall be used for the bedding, haunch, and initial backfill zones per Section 400, Detail 400-2, Storm Drainage Pipe Bedding Details for High Density Polyethylene (HDPE) pipe, or approved alternative.
- At Thornton's request, polypropylene pipe shall meet the minimum joint performance requirements per ASTM D3212: a 10.8-psi gauge, laboratory pressure test for 10 minutes with no visible leaks at the joint. Watertight joints shall be bell-and-spigot and gaskets shall be made of polyisoprene meeting the requirements of ASTM F477.

Polypropylene Pipe for Storm Drainage Applications

February 28, 2020

Page 2

- At Thornton's request, deflection testing by use of a mandrel shall be completed by the contractor or independent agency agreed to by Thornton, and paid for by the contractor or owner/developer. Deflection testing shall be done prior to paving not less than thirty days after installation. The maximum allowable deflection shall not exceed five-percent (5%) during this testing. Pipes 36-inches in diameter or larger may be entered and deflection levels measured directly. This allows for specific equipment such as "Go/No Go" sticks, cut to ninety-five percent (95%) of the inside diameter. If using a mandrel, it shall be a nine (or greater odd number) arm mandrel and shall be sized and inspected by the Engineer of Record prior to testing.
- Pipe through which the mandrel does not pass will be considered unacceptable, and shall be re-laid, and also re-tested.
- Minimum pipe cover shall be 1-foot below the full roadway pavement section including base course.
- Maximum pipe cover shall not exceed manufacturer's recommended depth.
- Polypropylene pipe will not be allowed within 50-feet of outfalls/detention ponds/drainageways upstream or downstream, so that the pipe will not be susceptible to brittle transition in lower temperatures.

To our knowledge, the only manufacturer of polypropylene pipe is Advanced Drainage Systems, Inc. If another manufacturer is able to provide polypropylene pipe that meets the above referenced specifications, we will allow that product as well.

Please submit all proposed plans and specifications for projects that intend to use polypropylene pipe to Cassie Free at cassie.free@ThorntonCO.gov and Jason Pierce at jason.pierce@ThorntonCO.gov to assist in verifying whether the proposed pipe installation complies with these conditions and specifications.

Sincerely,



Jason Pierce, P.E.
Infrastructure Engineering Director

jp/kk

cc: Brett Henry, Executive Director of Infrastructure
Jim Kaiser, Engineering Manager/Floodplain Administrator
Todd Rullo, Deputy Infrastructure Director
Cassie Free, Development Engineering Manager
Brian Stockton, Development Inspection Supervisor

Project Name: 144th Ave Widening – York Street to Colorado Boulevard
Project No.: 18-182

Pre Bid Meeting Agenda

Date: 10/12/2021

Time: 10:00 am

Location: Zoom Meeting

1. Introductions and Roles/Responsibilities

- Thornton Staff:
 - PM: Grant Bloom
 - CA: Paul Morris
 - CC: Cesar Vazquez
 - Other: _____
- Prime AE: Drexel, Barrell & Co.
-

2. Sign-In Sheet: Please send a chat message identifying your presence.

3. Bid Process (CA)

- Schedule
 - Bids due November 1, 2021, 2:00pm at City Hall.
 - Questions not taken after close of business on 10/22/2021. Questions must be in writing (e-mail). Answers to all questions received before deadline will be answered in Addendum.
 - 1st Addendum tentatively scheduled for issue this week. Addenda distributed by email and on the COT website. Prior to submitting Bid, check Contracts website to be certain you have received all Addenda.
 - Public Opening will be at 2:00 on 11/1 via public meeting.
- Bid Proposal Form
 - Do not write conditions on the Bid form, do not write on the form except where input indicated. Also, do not leave blank spaces where input is requested. If “not applicable,” “none” or “\$0”, so state.
 - Fill in subcontractors intended to be used on the Project whose subcontract will exceed \$10,000. Thornton’s intent is to not change these subcontractors after the Bid process to prevent bid shopping, except however, Thornton reserves right to reject subcontractors after the Bid.
 - Acknowledge all Addenda in space provided.
 - Sign and date Bid.
- Bid Assembly
 - Submit Bid Proposal sheets found on the COT website.
 - Submit in a sealed envelope addressed to Contracts Manager and state Contractor’s name, Project Name, and Project No. on outside of the envelope.

- Include bid bond (your form or American Institute of Architects (AIA) form OK), cashier's check, or certified check in amount of five percent (5%) of the base Bid.
 - Product Substitutions
 - If products listed along with "or Equal", Contractor may submit proposed equal substitution, however Thornton reserves the right to verify and/or reject the product as an "or equal" during the submittal process. If COT rejects the "or equal" aspect of the product, No Change Order would be allowed.
 - Substitution requests under "Or Equal" clauses in the specs must be received ten (10) Calendar Days prior to the Bid = close of business on 10/22/21. Products submitted and subsequently approved will be issued in Addendum. If product not approved by Addendum, bid only the specified products.
4. Project Design Overview (CA or PM and AE)
- Schedule
 - Notice of Award "NOA" anticipated by 11/5/2021.
 - Substantial Completion 365 days after NTP. Liquidated Damages of \$ 382.00 per day for each Calendar Day not substantially complete. Substantial Completion means must be ready for use for its intended purpose.
 - Milestone dates for Signal Ditch – 3/15/2022
 - LDs are \$2,718 per Calendar Day
 - Contractor must establish temp flows
 - Contractor assumes liability for claims from Signal Ditch
 - Milestones
 - We will be using electronic signature process.
 - NOA: Have 10 Calendar Days to get Bonds, Insurance certificates, additional insured Endorsements, and W-9 Forms back to Thornton.
 - Contract will be sent for e-sig after Bonds received.
 - Notice to Proceed "NTP" – note submission deadlines for product lists, schedules following NTP.
 - Substantial Completion – means only minor Punch List items remaining, owner' issues Cert of Substantial Completion, which stops Contract time.
 - Contractor completes Punch List and gives written notice that Work is ready for final inspection and Initial Acceptance.
 - Final pay application certified by owner, (but not paid until below satisfied).
 - Advertisement period for verified claims (explain process).
 - Must submit affidavit on payment of subs/suppliers (AIA form OK), consent of surety to release final payment, O&M manuals,

in service training, warranties and guarantees, etc., before Thornton will release final payment.

- Initial Acceptance = start of Warranty Period.
- Final Acceptance = end of Warranty Period.

○ Insurance

- GC limits \$2M General Liability / \$5M Gen Aggregate (Thornton named as additional insured) and \$1M Auto Liability.

○ Scope of Work

- Widening between York to Colorado.
- Connects two widening projects on either side
- Intent is 5 Lanes through project site
- Signal Ditch CBC crossing

○ Geotechnical

- Geotechnical Report and Drainage Report are provided on COT website.

○ Site Conditions

- Anderson Embankment portion has already been completed
- RTD Crossing

○ Plans, Elevations, Details

- Avail on the COT website
- CAD files available via “zipped” folder
- Signal Ditch Crossing Agreement available

○ Technical Specifications

- Avail on the COT website

○ Special Considerations, such as work hours, traffic restrictions, safety, etc.

- No full closure of 144th should be anticipated

5. Special and General Conditions Review (CA)

○ Permits

- Temporary use permit for trailers (if any) Contractor responsibility.
- Building Permit no charge – Make sure all subs licensed in Thornton, and provide subcontractor permission slip to add their names when applicable.
- National Pollution Discharge Elimination System (NPDES).
- Traffic Permit

- Phasing
 - No interruption to Signal Ditch flow will be acceptable.
- Use of Site – access, security, erosion control, trash removal, clean up, deliveries, securing tools and materials.
- Parking
 - None currently designated. Space potentially available towards east side of site
- Tests and Inspections
 - Owner hires independent testing agency.
 - Contractor pays for retesting of failed tests, overtime if tests required on overtime, and wait time of testing agency.
 - GC must coordinate and cooperate with testing agency, allowing access and incidental tools, equipment, and power necessary to take tests.
- Utility Coordination: Locates, clearance, temperature power, temperature water, service outages, etc.
- Coordination with other Contractors and entities: Xcel, HOA (incidental), Signal Ditch Co (incidental), etc... Responsibility of Contractor.
- Submittals
 - CPM schedule (GC 3.10 within fourteen (14) Calendar Days of NOA). Bring to the Kick-Off Meeting
 - Submittal schedule (GC 3.12.5 due within fourteen (14) Calendar Days of NOA). Bring to Kick-Off meeting.
 - Product list (SC1.13 D prelim list due within fourteen (14) Calendar Days of NTP).
 - Shop drawings (SC 1.21 fourteen (14) Calendar Days for AE to review initial submittal, fourteen (14) Calendar Days to re-review previously rejected submittals).

6. Questions and Answers:

No questions were asked/answered during the conference.

7. Attendees:

- Paul Morris – COT
- Ryan Neely – Goodland Construction
- Daniel Escobedo – Hamon Infrastructure
- Grant Bloom - COT
- Kevin Oberkirsch – Edge Contracting
- Susan Prince – Hamon Infrastructure

- Curtis Daniels – Millstone Weber
- Jordan Hood – ABCO Contracting
- Trevor Herman – IHC Scott Contracting
- Dan Sweczak – Zac Dirt
- Bruce Hammers – American Civil Constructors
- Dustin Duran – Duran Excavating
- Cameron Greer – Jalisco International
- Zack Thenell – Concrete Express (CEI)
- Ravi Pathuri – IHC Scott Contracting
- Daniel Lavigne – Elite Surfacing Infrastructure
- Jude Kolb – American West Construction
- Jeff Croll – Flatiron Constructors

file: 144th Avenue Widening – York Street to Colorado Boulevard
Project No. 18-182