Addendum #2

Capital Project Committee

Project Information	
Project Name:	East 8th Street Engineering Design and Construction Administration Services
RFP Number:	FA19-06-056
Date:	June 27, 2019
Project Manager:	Brian Ward
Addendum Items	
Item 1:	PDF's of the June 26th pre-proposal meeting have been included with this addendum.
Item 2:	The consultant will include a $40,000 allowance for future SUE investigations in the cost of service. This cost will be used as direct reimbursement for future SUE investigations and all expenditures from this fund must be approved in advance by the City Project Manager.
Item 3:	Additional electronic files may be added to the proposal share point folder until the date and time of the final addendum issuance.
Item 4:	City comments from the 3/1/2019 - 75% submittal have been included.

8th Street Engineering Design and Construction Administration Services

June 26, 2019

Agenda

- Project Team
- Project Background
- Project Overview, Challenges, and Goals
- Scope of Services
- Consultant Selection Schedule
- Preliminary Project Schedule
- Questions

Project Team

- Joel Hemesath, Public Works Director, Project Owner
- Brian Ward, Project Manager
- Adela Gain, Purchasing Manager
- Design Consultant (TBD)
- Construction Contractor (TBD)

Project Background

- CDoT – State Highway 263 – Transferred Ownership to the City
- Primary Development Area for the City
- Currently Inadequate
  - Poor Condition Roads
  - Congestion
  - Mine and Oil Traffic
- Speed and Safety at Turning Movements
- 3.5 Miles of Roadway

City of Greeley Colorado

Project Background

Project Background

- Full Improvements between State Highway 85 and Balsam Ave (±3,600')
- Previous design work to approximately the 75% design level

Project Overview - Design

- Project Coordination
  - Project setup, PM, meetings, etc
- ROW Boundary Line work to Northern Engineering
- Utility Relocation Support / Exhibits
- 75%
  - Validate previous designs
  - Create a 75% Design Package
- 95%
  - Consultant will support the bidding process
  - Issue for Bidding
- Issue for Construction Documents
  - Will consider contractor comments

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Project Overview - Construction

- Construction Administration
  - RFI's
  - Submittal Review
  - Minor Design Changes
  - Meetings
- Construction Inspection
  - Prepare Daily Logs
  - Quality tracking (Substantial Completion / Final Acceptance)
- Quality Assurance Testing
  - Concrete, Earthwork, Asphalt, etc.

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Project Overview

Other expectations:

- Meet bi-weekly with City Team during Design
- Coordinate the designs and Right of Way needs with the City team
- Frequent, honest and straightforward communication
- Team must be able to provide feasible, economic and constructible designs ★
- Manage all stakeholder comments and ensure all input is considered

Project Challenges

- Many Stakeholders
- Many reports / data to consider
- Custom Project Specific Designs
- Floodway / Floodplain “No Rise” Designs
- Right of way acquisition
- Project Management / Communication
- Multi Discipline Approach
- CDOT interaction within the SH85 ROW (Will need reviewed by CDOT but plans do not have to be CDOT)

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Project Goals

- Priorities:
  - Right of Way needs are identified
  - Constructible Design
  - Long Term goals are met
  - Design Documents are delivered on time

Scope of Services

General Design Services

- Design Development Drawings
- Quantities and Cost Estimate
- Constructability Reviews
- Right of Way Exhibits
- Specs, Special / General Provisions & Final Reports

***Available design files have been uploaded to the City's share point site. New files may be added until the time of the final addendum.

Scope of Services

General Construction Services

- Construction Administration
- Construction Inspection
- Quality Assurance Testing

Addendum #2

- The consultant will include a $40,000 line item for future SUE investigations.

Consultant Selection Schedule

Schedule of Events (subject to change)	All times are given in local Colorado time
RFP Issued	June 7, 2019
Pre-Proposal Meeting	June 26, 2019 10:00 am Public Works, 1001 9th Ave
Inquiry Deadline	July 1, 2019 before 3:00pm
Final Addendum Issued	July 3, 2019 before 3:00 pm
RFP Due Date and Time	July 9, 2019, before 12:00 pm
Interviews (If Required)	July 16, 2019
Notice of Award (Tentative)	July 17, 2019

City of Greeley Colorado

Preliminary Project Schedule

- The City desires that the project follow the schedule below:
  - Notice-to-Proceed –08/01/2019
  - ROW Line Work – 09/13/2019
  - 75% Design – 10/25/2019
  - 95% Design – 12/06/2019
  - Contractor Bidding – 1/13/2020 – 2/28/2020

From NTP:

- 6 Weeks for ROW Line Work
- 12 Weeks for 75% Designs
- 18 Weeks for 95% Designs

Questions

Brian.Ward@greeleygov.com
970-350-9357

Water and Sewer Comments

1) Show distinction between what is existing and proposed in the utility plans.
    a. Without this distinction, it is hard to accurately provide comments on the plans.
2) Pothole and locate the water and sewer lines.
    a. Our data shows the water and sewer lines very differently than what is represented in the plan set.

Below are the standards that we typically require, but can provide more accurate comments after we get plans with existing versus proposed.

1. Water and Sewer need to be in Water and Sewer Exclusive Easements.
    a. "For a combined potable water and sanitary sewer easement, the total width shall be thirty (30) feet or twice the maximum depth to the invert of the potable water line plus twice the maximum depth to the invert of the sanitary sewer pipe, whichever is greater. This easement shall be for the exclusive use by the City of Greeley. The easement name, which shall be "EXCLUSIVE WATER AND SANITARY SEWER EASEMENT" and the easement width shall be labeled on the Construction Drawings and plat."
    b. "There shall be no detention ponds, berms greater than three (3) feet, permanent structures, fences, trees, shrubs with mature height greater than three (3) feet, or other obstructions that will impede the ability of the City to adequately maintain and service the main(s) located within the easement."
    c. "Right angle utility crossings are permitted above and below the potable water main. Parallel installation of other utilities in exclusive water easements is not permitted."
2. Water lines shall require a minimum of 5 feet of cover and sewer a minimum of 4 feet.
    a. "The minimum depth of cover shall be five (5) feet and the maximum depth of cover shall be six (6) feet." (Water)
    b. "Sanitary sewer collection mains shall have four (4) feet minimum depth of cover from the top of pipe to finished ground surface." (Sewer)
    c. Sheets 143-146 show existing water with insufficient cover. Adjust the infiltration pond or move the water line to ensure that water lines receive the minimum required cover.
3. Right-of-way:
    a. "All valves shall be located in dedicated street right-of-way or within a dedicated exclusive easement of appropriate width. City approval is required for all other proposed valve locations."
    b. "All sanitary sewer collections mains shall be located in dedicated street right-of-way or within a dedicated exclusive easement of appropriate width. City approval is required for all other proposed sanitary sewer collection main locations."
    c. "All manholes shall be located in dedicated street right-of-way or within a dedicated exclusive easement of appropriate width. City approval is required for all other proposed manhole locations."
4. Provide a plan and profile of storm water lines that includes Water and Sewer lines to ensure adequate clearances are kept as well as proper cover and encasement.
    a. "Where storm water lines cross above potable water mains, storm water pipe joints shall be grouted a minimum ten (10) feet on

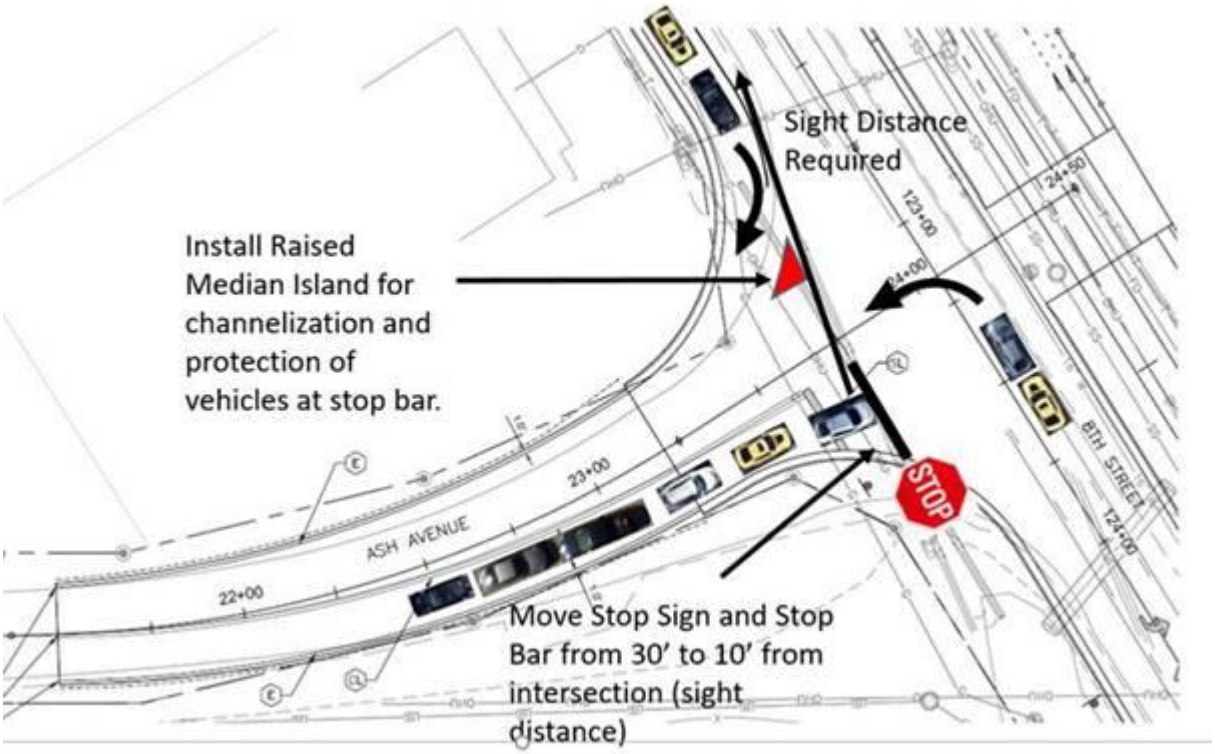
either side of the crossed potable water main, measured from the outside diameter of the pipe."

5. Utilities that cross with water and sewer shall be encased through the dedicated easement.
    a. "Dry utility crossings shall be encased in high density polyethylene pipe (HDPE), Standard Dimension Ratio (SDR) 11 from edge to edge of the easement or right-of-way, or ten (10) feet on either side of the potable water main, whichever is greater."
    b. "Dry utility crossings shall be encased in high density polyethylene pipe (HDPE), Standard Dimension Ratio (SDR) 11 from edge to edge of the easement or right-of-way, or ten (10) feet on either side of the sanitary sewer collection main, whichever is greater."
6. Utilities that cross with Water and Sewer shall maintain a 90 degree angle.
    a. "Right angle utility crossings are permitted above and below the potable water main. Parallel installation of other utilities in exclusive water easements is not permitted."
7. "Where sanitary sewer lines cross beneath potable water lines with less than eighteen-inches (18") clearance, sanitary sewer lines cross above potable water lines, or the ten (10) feet horizontal clearance between potable water lines and sanitary sewer lines cannot be maintained, pipe encasement shall be designed and constructed so as to protect the potable water main."
8. "For sanitary sewer mains and services crossing stormwater lines, refer to the SDDC."
9. Include all Water and Sewer lines (services and mains) on the utility plans. Show the connections to the fire hydrants as well.
    a. All services are missing. Some fire hydrants have lines drawn to them and others do not. Mains extending off of 8th are missing. (Balsam, Ash, Fern, Airport Rd, Crosier, etc.)
10. Include a key for the symbology of the plans. (lines and symbols).
11. Clearly identify the lift stations in this area to ensure they easements and protection.
12. Relocate or remove poles, power pedestals or other structures that are proposed directly over Water and/or Sewer lines or within the Water and Sewer easements.
    a. "There shall be no detention ponds, berms greater than three (3) feet, permanent structures, fences, trees, shrubs with mature height greater than three (3) feet, or other obstructions that will impede the ability of the City to adequately maintain and service the main(s) located within the easement."
13. Adjust all meter boxes, valve boxes, and fire hydrants to the new grade.

Traffic Comments

Per our conversation today, there are several sections of attached sidewalk – approximately 250 feet total – Please see if these can be detached from the street for the protection and comfort of pedestrians. I think everywhere there is attached sidewalk it is required due to grading / land use requirements. Try and detach sidewalk but this may not always be feasible. Also, please consider installing a raised median channeling right-turning traffic at the intersection approaches where there are right-turn deceleration lanes. This raised median will accommodate the stop sign/stop bar to be moved within 10' of the curb line (shown below) where motorists will have much better sight distance at the intersection. On the plans, the stop bar/sign is shown 30' back of the approach where vehicles have very limited sight distance. Also, there are no street lights shown on the plans. Street lighting, at least at intersections, would be a great safety benefit for the motorists and pedestrians who will use this corridor. Shown below is the street lighting along the 8th Street corridor west of Highway 85 where

there is a curb/gutter section. Street lighting will be installed by Excel. We need to leave Excel the locations to install the lights and maybe conduits. Kat was following up with Chase concerning this matter. Lastly, there are no fiber conduits included in the project quantities. This installation would be at a relatively low cost, especially if it is installed/trenched along the south side of 8th Street where no sidewalks/trails will exist. Thank you for your consideration of these design elements.



Public Works

Survey

- In order to finalize the ROW / easement exhibits and legals we need to consider the Excel undergrounding, Centurylink and City fiber optic placement. It appears in many instances that these lines are in conflict with existing lines. If I am misunderstanding the placement of these lines PLMK.
- Need to include the potholing info in the 75% designs.

Planset

- Please remove all references to CDOT specifications throughout the submittal.
- We will supply you with required general notes from the various departments.
- The Summary of approximate quantities does not match with the cost estimate.
- Please remove the names of the property owners from the construction set.
- Proposed items are turned on in demo sheets and items that have been demo'd appear in proposed sheets.
- Construction is marked as ending at 21+50 for Ash but it appears grading goes past 21+50. Same for Balsam
- Overall the storm pipes for the project look very shallow, sometimes even encroaching into the base material for the pavement section. We should consider evaluating the pipes for structural load bearing and may need to increase Class.
- Please confirm no utilities run down 1st Ave that would negate being able to install the ditch across the intersection.
- The Utility Easement appears to encroach through the corner of the Burris building.
- The entrance to the Donoho property off of Balsam has not been discussed. We need to discuss this placement with the property owner.

- There is a weird grading jump on the north side of the road at about 119+50
- At design point B10 I am concerned about the water having to turn at 90 degrees.
- The north and south ditch profiles add useful information however there seems to be some elevation busts and driveways missing.
- Looks like the infiltration pond and some pipes will encroach into the Ogilvy ROW. We will need an exhibit / access agreement as part of the construction set.
- This project has a significant grading component and it may be worthwhile to separate the grading sheets into their own set. This would allow for items like slope call outs and tie in information to be included.
- It appears it is proposed that at least 1 if not 2 of the poles on the north east corner of 1st Ave and 8th St are to be removed. 2 of the 3 poles in this location are transmission power lines and should be avoided if at all possible.
- Regarding the grading at Preferred Cartage Service and Donald and Carole Frei, I have concerns that this is constructible while retaining the land use of the site.
- The Excel underground pathway seems to conflict with a Fiber Optic line and the pedestal locations do not appear to be on the plans.

Cost Estimate

The cost estimate looks appropriate for a 75% submittal. One item I did want to clarify is the assumed construction schedule for the project. The Erosion Control Supervisor is listed as 200 days. At 20 construction days / month this implies a construction schedule of 10 months. Please clarify what the proposed construction schedule is.

- There are multiple tasks 55's
- The cost estimate does not align with the planset summary of quantities

Constructability Review

We understand the constructability review and the QA/QC would not be supplied for the submittal.

Specifications / Special Provisions

No comments

Drainage Report

Defer to storm water review.

Geotech Report

The report seems appropriate for its intended use.

- The disclaimer on page 19 "A high level (limited scope)…". The City intended this report to supply a final life cycle cost analysis. Please confirm the validity of the LCCA portion of the report and its usefulness for this project.
- The report states that there are not significant areas of distressed pavement then approx. 2 sentences later reports 30-40% of the mill / overlay should be considered full replacement.
- The drainage report should specifically reference that the "…silty sand soils…" recommendation is being used for the infiltration pond.

Access Control Plans

We only received the drawings. We will need the entire report to review.

- Items like “Evaluate Access locations relative to deceleration lane length…” is listed on the access control plan but isn’t this the intent of the plans themselves? To perform this evaluation? I will send these over to traffic and the county and see what their expectations are.

SUE Memo

Memo looks appropriate. Please add a recommendations and conclusions section to the memo. Will this report need signed and stamped by a PE from FHU?

Project Schedule

This is being discussed accordingly.

Fire

No comments. Only concern is access to fire hydrants during construction and notification if any fire hydrants will be affected/relocated due to construction.

Stormwater

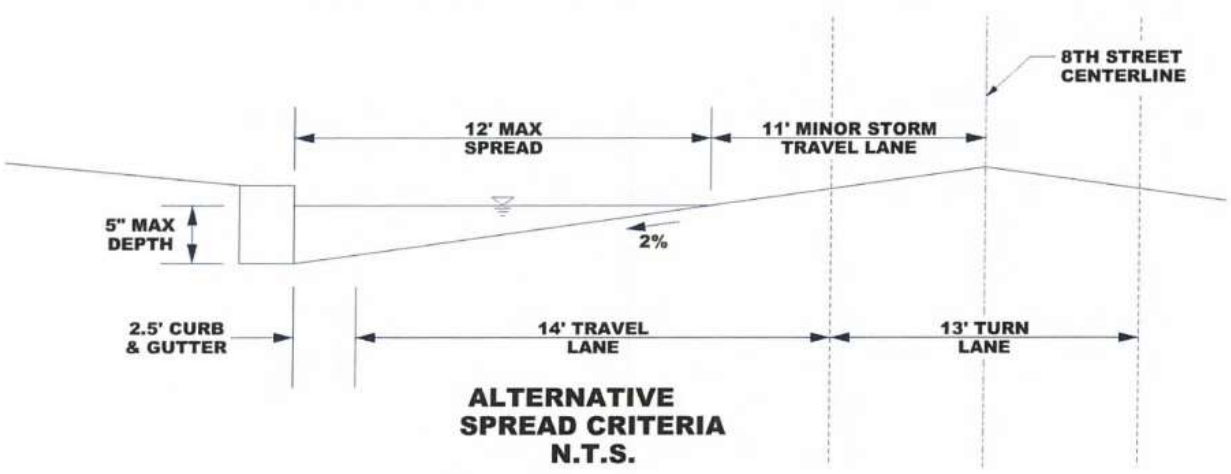
Comments for the “#1 – Plans”

1. Sheet 96: Please add to the contact list City of Greeley/Stormwater/ ‘null’/ Karen Pryor/ 970-336-4031/ karen.reynolds@greeleygov.com
2. Sheet 67 (and see ‘Drainage Report ‘Culvert Designer/Analyzer report A21) Culvert A21, 24” RCP @ 0.2% w/ 10.99 ft’s discharge - City Specs allow for up to 12.0 ft/s but this is very high and 10.99 ft/s will require considerable scour protection. Please consider upsizing pipe to reduce peak velocities. See also next comment on protection.
3. All culverts with velocities greater than 5 ft/s at discharge need permanent scour mitigation designed to mitigate the velocities shown in design calculations & proposed soil conditions at inverts. Please identify these locations on the plan sheets and include the calculations in the design report.

3. DRAINAGE DESIGN CRITERIA

The design criteria used to place and size the storm sewer inlets is based on a modified City of Greeley Minor Arterial Criteria (**Figure 3-1**). The standard minor arterial section has four travel lanes and a center turn lane and allows the outermost travel lanes to be fully ponded in the minor storm. Since the proposed roadway has only two travel lanes, allowing them to be fully ponded is infeasible. Therefore, it was decided to allow a portion of the travel lane to be ponded so that an 11-foot wide storm travel lane is free that consists of half the turn lane and a portion of the travel lane.

Figure 3-1. Modified Minor Storm Spread Criteria



To compensate for the reduced functionality of this modified spread criteria, a 10-year design storm was used as the minor storm instead of a 5-year design storm to determine acceptable inlet spreads. These are the only modifications made to the standard City of Greeley Stormwater Design Minor Arterial Stormwater Design Criteria. City of Greeley Stormwater staff have reviewed and agreed to these modifications.

Storm sewer pipes were sized to convey the 5-year initial storm frequency without surcharging the pipe, as is consistent with the City of Greeley design criteria for commercial, business and industrial land use.

Culverts have been designed to conform with table 8.5.2 in the City of Greeley Stormwater Design Criteria Manual, i.e. no overtopping at the 10-year storm frequency and a maximum of 6" overtopping at the 100-year storm frequency. The minimum culvert size for roadside ditch culverts is 12" and the minimum size for culverts crossing 8th Street is 24".