

III.

Article 4, Compensation and Exhibit D, Fee Schedule shall be amended by increasing by \$93,220.00 the lump sum amount payable under the Contract for a total of \$982,803.33, as shown by the attached Addendum to Exhibit D.

IN WITNESS WHEREOF, the City and the Engineer have executed this Supplemental Contract in duplicate.

[signature pages follow]

HDR ENGINEERING, INC.

By: _____

Date

CITY OF ROUND ROCK

APPROVED AS TO FORM:

By: _____
Craig Morgan, Mayor

Stephan L. Sheets, City Attorney

Date

ADDENDUM TO EXHIBIT A
City Services

The CITY will provide the following:

- a. City of Round Rock design criteria, standard details and standard specifications.
- b. Record drawings of the existing potable and reclaimed water pipelines.
- c. Submission of permit applications to TXDOT and Union Pacific Railroad, and payment of any applicable fees.
- d. Prompt review and comments on submittals.
- e. Coordinate approvals for geotechnical boring.

ADDENDUM TO EXHIBIT B

Engineering Services

The work to be performed by HDR Engineering, Inc. (ENGINEER) for this work shall consist of providing additional engineering services for water line and reclaimed water line design to be included in the Plan, Specifications, and Estimate (PS&E) package for construction of an at-grade crossing of the Union Pacific Railroad (UPRR) at the Brushy Creek Plant entrance, including related intersection improvements on US 79. HDR will prepare drawings and specifications for the installation of approximately 350 linear feet of 16-inch water line and 12-inch reclaimed water line across Highway 79 and the Union Pacific Railroad at Harrell Parkway.

All references to Telander Rd. in the original scope of services shall be Harrell Parkway.

The detailed scope of services for this work is further described below.

I. Water & Waste Water Utilities Design

- a. HDR will attend a project kick-off meeting to establish the scope of the project, including the proposed alignment for the new pipelines, connection points to the existing potable water and reclaimed water pipelines, and any applicable design standards, including standard details and/or specifications. One (1) meeting is assumed for budget purposes.
- b. Conduct a site visit after the kick-off meeting to confirm project extents. One (1) field visit is assumed.
- c. HDR will prepare final drawings and specifications indicating the scope, extent, and character of the work to be performed and furnished by a Contractor.

Drawings

- Drawings shall be formatted to print on 11 x 17 paper, at a horizontal scale of 1 inch equals 100 feet and a vertical scale of 1 inch equals 10 feet.
- Only plan and profile sheets and standard detail sheets will be prepared, for inclusion with the roadway drawings. No additional cover sheet, standard notes, or traffic control sheets will be developed.
- The following sheets will be part of the deliverable:
 1. General Notes for Water and Wastewater Lines (1)
 2. Plan and Profile Drawing – Potable Water (1)
 3. Plan and Profile Drawing – Reclaimed Water (1)
 4. Connection Details (2)
 5. Standard Details (1)
 6. Material quantities for inclusion on a roadway quantities sheet.

Specifications

- Only technical specifications related to the pipeline relocation will be prepared, for inclusion with the roadway relocation specifications.
- d. HDR will furnish the bidding documents for review by the City, conduct a review meeting with the City, and revise the bidding documents to address the City's comments, as appropriate.
- e. HDR will provide technical criteria, written descriptions, and design data as necessary for the City's use in filing applications for permits from or approvals of TXDOT and Union Pacific Railroad. HDR will assist the City in consultations with such authorities; and revise the drawings and specifications in response to directives from such authorities.
- f. HDR will prepare an opinion of probable construction cost based on recent bid tabulations for similar work available to HDR and/or provided by the City.
- g. Modify roadway design plans to include the change in access for the Water Treatment Plant.
- h. Update drainage analysis and drainage plans to address the change in access for the Water Treatment Plant.
- i. Additional boring to verify conflicts for proposed water lines.
- j. Design security gate and camera system for the new access to the water treatment plant facility.
- k. Modification and additional traffic control plan sheets to accommodate the design changes.

II. Illumination Design

Provide engineering services for the removal and relocation of existing continuous illumination assemblies, upgrading the relocated illumination assemblies lamp types from HPS to LED, providing new underground infrastructure for the relocated illumination assemblies, providing new continuous illumination assemblies, providing new electrical service for the new continuous illumination assemblies, and providing new underground infrastructure for the new continuous illumination assemblies for the intersection improvements along US79.

- a. Contact the utility company for existing available voltage and connected loads of existing electrical services. Coordinate available voltage, location and connected loads of new electrical service.
- b. Conduct photometric analysis (project limits) for compliance with the required foot candle levels for continuous illumination. The photometric analysis will be utilized to determine the illumination assembly light distribution type only. Mounting height and spacing will be per existing illumination assemblies being relocated.
- c. Conduct voltage drop calculations for conductor and conduit sizes.

- d. Conduct overcurrent protection and load analysis for circuits and electrical service sizes.
- e. Design continuous illumination utilizing TxDOT Roadway/Illumination Standards.
- f. Prepare illumination Layouts, Details, and Standards for inclusion in the plan set.

III. Utility Coordination

- a. Pothole (4 locations) to identify depth of gas lines. This work will be performed by a sub consultant.
- b. Analyze potential utility conflicts based on survey and utility records with respect to engineering plans to determine if the conflict is clear, confirmed, or requires additional Subsurface Utility Investigations.
- c. Coordinate with SUE provider for SUE Quality Level A and B deliverables. Analyze the SUE deliverables for final conflict determination and resolution.
- d. Conduct individual meetings with utility companies to further coordinate utility conflicts and determine conflict resolutions to prevent project delays. Attend additional City utility coordination meetings for continued utility conflict resolution.

IV. Project Management

- a. Project coordination, correspondence, and meetings.
- b. Prepare sub consultant agreements.
- c. Assist City during advertising of the project for bidding.

SERVICES NOT INCLUDED

- a. It is assumed that sufficient topographic survey, subsurface utility engineering and geotechnical boring data has been collected for the pipeline design.
- b. No modeling and/or sizing of utilities will be performed for existing or future capacity analysis.
- c. No pipe material analysis will be performed.
- d. No easements will be prepared or acquired.
- e. HDR is not responsible for providing engineering technical review of utility relocation design plans for UAR compliance in State ROW, and confirmation of conflict resolutions. HDR is not required to coordinate and track the utility company relocations and schedules. Such work includes but is not limited to contacting utility companies for progress on design plan completions, work order submittals, material procurement, contractor attainment, relocation completions, abandonment and/or removal completions. HDR is not required to coordinate and respond to utility companies and contractor Requests For Information relating to utility construction and design changes.

ADDENDUM TO EXHIBIT C
Work Schedule

PS&E plans 100% - March 15, 2018

Bid Services – May, 2018

Construction Services – May 2018 to December 2019

ADDENDUM TO EXHIBIT D
Fee Schedule

Attached Behind This Page

Exhibit D

Project Name: **US 79 at Telander Drive Operational Improvements**

Consultant: **HDR Engineering, Inc.**

Cost Component, Hours	Total Hours
Project Principal	0
Project Manager	50
Senior Engineer.	26
Design Engineer	136
Engineer-in-Training	298
Sr. Design Technician	0
CADD Technician	48
Clerical/Steno	18
Total Hours	576

Cost Component, Dollars	Billing Rate	Totals
Project Principal	\$280	\$0.00
Project Manager	\$256	\$12,800.00
Senior Engineer	\$215	\$5,590.00
Design Engineer	\$155	\$21,080.00
Engineer-in-Training	\$110	\$32,780.00
Sr. Design Technician	\$120	\$0.00
CADD Technician	\$98	\$4,704.00
Clerical/Steno	\$62	\$1,116.00
Labor Dollars		\$78,070.00

Cost Component, Direct Expenses	Total
Travel Expenses (Mileage billed at IRS Standard Rate)	\$100
Printing	\$100
TOTAL DIRECT EXPENSES	\$200.00

<u>PROJECT FEE SUMMARY</u>		<u>Total</u>
HDR	Costs	\$78,070.00
HDR	Direct Expenses	\$200.00
Subconsultants:		
RTG	<i>Traffic Control Plans</i>	\$5,000.00
Raba Kistner	<i>Pavement Testing & Design</i>	\$350.00
Rios	<i>Utility Potholes</i>	\$9,600.00
TOTAL FEE		\$93,220.00

Task	Total		Total		Other		TOTALS
	Labor Hours	Loaded Labor Cost	Labor Hours	Loaded Labor Cost	Direct Costs	Subconsultants	
TASK I Water & Wastewater Utilities Design	288	\$41,738.00			\$0.00	\$5,350.00	\$47,088.00
TASK II Illumination Design	182	\$21,818.00			\$0.00	\$0.00	\$21,818.00
TASK III Utility Pot Holes	72	\$9,180.00			\$0.00	\$9,600.00	\$18,780.00
TASK IV Project Management	34	\$5,334.00			\$200.00	\$0.00	\$5,534.00
GRAND TOTAL:	576	\$78,070.00			\$200.00	\$14,950.00	\$93,220.00