MODIFICATION NO. 2 TO AGREEMENT FOR PROFESSIONAL ENGINEERING SERVICES FOR PRYOR ROAD IMPROVEMENTS FROM LONGVIEW ROAD TO HOOK ROAD (RFQ NO. 2020-046)

THIS MODIFICATION TO AGREEMENT made and entered into this _____ day of _____, 2021, by and between the City of Lee's Summit, Missouri (hereinafter "City"), and TranSystems Corporation (hereinafter "Engineer").

WITNESSETH:

WHEREAS, City and Engineer entered into an Agreement for Professional Engineering Services for Pryor Road Improvements from Longview Road to Hook Road (RFQ No. 2020-046) dated April 28, 2020 (hereinafter "Base Agreement"); and

WHEREAS, City and Engineer modified the Base Agreement pursuant to Modification No. 1 dated April 22, 2021, to design for a water main extension along Pryor Road from Scherer Road to Longview Road; and

WHEREAS, City and Engineer desire to further amend the provisions of the Base Agreement, as amended, as provided herein; and

WHEREAS, Engineer has submitted a proposal for the amended engineering services and an estimate of engineering costs to perform said services; and

WHEREAS, the City Manager is authorized and empowered by City to execute contracts providing for professional engineering services.

NOW THEREFORE, in consideration of the mutual covenants and considerations herein contained, **IT IS HEREBY AGREED** by the parties hereto to amend the following Articles contained in the Base Agreement, as amended, as follows:

ARTICLE I SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

Article I of the Base Agreement, as amended, is hereby further amended to also include the services contained in *Exhibit A*, attached hereto and incorporated herein by reference.

ARTICLE IV PAYMENTS TO THE ENGINEER

Article IV of the Base Agreement, as amended, is hereby further amended to provide additional compensation to Engineer as follows:

A. The additional compensation to be paid to Engineer for the amended Basic Services described in Article I of this Modification No. 2 above shall not exceed the total sum of One Hundred Ninety-Nine Thousand Seven Hundred Ninety-One Dollars (\$199,791). The total fees (hourly fees and expenses) for the Basic Services is hereby amended and shall not

exceed the total sum of One Million Three Hundred Seventy-Nine Thousand One Hundred Three Dollars (\$1,379,103).

B. The amended total not to exceed amount for both the Basic Services and Optional Services is One Million Three Hundred Seventy-Nine Thousand One Hundred Three Dollars (\$1,379,103).

ARTICLE V COMPLETION TIME

Article V of the Base Agreement, as amended, is hereby amended as follows:

• Final deliverables by September 2022

ARTICLE VIII ALL OTHER TERMS REMAIN IN EFFECT

All other terms of the Base Agreement not amended by this Modification No. 2 to Agreement shall remain in full force and effect.

This Modification No. 2 to Agreement shall be binding on the parties thereto only after it has been duly executed and approved by City and Engineer.

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IN WITNESS WHEREOF, the parties have caused this Modification to Agreement to be executed on the _____ day of ______, 2021.

CITY OF LEE'S SUMMIT, MISSOURI

Stephen A. Arbo, City Manager

ATTEST:

City Clerk Trisha Fowler Arcuri

APPROVED AS TO FORM:

Office of City Attorney

TRANSYSTEMS CORPORATION

BY: Franklin L. Weatherford, PE

TITLE: Principal

ATTEST:



EXHIBIT A

TranSystems 2400 Pershing Road, Suite 400 Kansas City, MO 64108 Tel 816 329 8600 Fax 816 329 8601 www.transystems.com

CONTRACT AMENDMENT 2 – ADDITIONAL SERVICES FROM SCHERER ROAD TO LONGVIEW ROAD LEE'S SUMMIT, MISSOURI

The following Scope of Services describes the Design Professional's additional services for the following items in conjunction with the Pryor Road Hook to Longview (RFQ No. 2020-046) improvements project for the City of Lee's Summit Public Works Department ("City"). These services are added to the agreement dated April 28, 2020. All other terms and conditions set forth in the original agreement as amended remain in full force.

- Prepare Water Main Relocation Plans for 30-inch Kansas City, Missouri Water Main Scherer Rd. to Hook Rd.
- Prepare Water Main Relocation Plans for 16-inch Lee's Summit, Missouri Water Main Scherer Rd. to Hook Rd.
- Develop Landscaping Plan for the project
- Establishing existing Rights-of-way, Easements and Lots from Plats added since survey work was completed.
- Staking the Centerline of Pryor Road Improvements for Utility Relocation Reference

Each of the items are described more fully in the following sections.

30-INCH KANSAS CITY WATER MAIN

There are approximately five (5) locations along the Pryor Road project between Hook Road and Scherer Road that may require relocation of the 30-inch water main owned and operated by Kansas City, Missouri Water Services Department (WSD). This task includes coordination with WSD, project administration, preliminary and final design, preparation of construction drawings for bidding, and preparation of "as built" plans based on survey data provided by the contractor. All work will be performed in accordance with WSD standard details and procedures. This task also includes performing quality assurance and quality control (QA/QC) reviews prior to submittal on all plans and documents. Drawings will show plans and details for the proposed improvements with the water main profile. Plans will be based on survey utilized for the Pryor Road Improvements project. The water main construction drawings will include:

- WSD Cover Sheet
- WSD Legend
- WSD General Notes
- General Layout Map
- Plan and Profile Sheets
- Connection Details.

The water main construction drawings will be included in the construction drawings for the Pryor Road Improvements project and bid as part of that project. No separate bid for the water main improvements is included in this agreement.

TranSystems will prepare Technical Specifications for the WSD water main to inform the contractor that this portion of the project will need to comply with WSD standards and specifications. The specifications will be part of the contract documents prepared under the original agreement.



No fire hydrants, water main valves or other appurtenances are anticipated for the 30-inch water main. The water main will be relocated within the existing WSD easement. No additional easements will be prepared or acquired as part of the task.

The basic Scope of Services for this Project is organized into three major Task Series:

- Task Series 100 Project Administration
- Task Series 200 Preliminary Plans
- Task Series 300 Final Plans and Specifications
- Task Series 400 As Built Plans

TASK SERIES 100 – PROJECT ADMINISTRATION

100 - Conduct Project Administration Services

A. Design Professional will provide the management functions needed to complete the preliminary and final design work, including all project correspondence with WSD; consultation with WSD's staff; supervision and coordination of services; implementation of a project-specific work plan, procedures, and a quality control/quality assurance plan; scheduling and assignment of personnel resources, continuous monitoring of work progress; and invoicing for the work performed.

101 - Initial Project Meeting

A. An initial project meeting will be conducted by the TranSystems at WSD offices or virtually. The intent of this meeting is to discuss the details of the project and ensure that all parties are clear on the project expectations and outcome.

TASK SERIES 200 – PRELIMINARY DESIGN

200 - Preliminary Layout Drawing Review

A. Two of the five locations impacted by the Pryor Road project are increasing the amount of fill over the existing water main. TranSystems will work with WSD and the pipe manufacturer to determine if these areas require relocation, or if other protective measures can be utilized to allow the main to remain in place, or if the additional cover can be placed with no impact to the existing main. Two other locations are where the amount of cover is being reduced over the existing main. TranSystems will coordinate with WSD to determine if the reduced cover is significant enough to require relocation, or if other options are available to allow the main to remain in place. The vertical profile of the road will be modified at one location. The crest vertical curve at Eagle View Drive is being cut down to provide better sight distance at the intersection. This area will require relocation of approximately 800-ft of existing 30-inch water main.

B. TranSystems will create base plan sheets for up to 1,900 linear feet of water main relocation. These sheets will include existing utilities and surface features in the right-of-way and/or easement, including the proposed new water main alignment in 1''=20' scale on 22''x34'' sheets for construction drawings. The sheets will be prepared using the existing mapping previously acquired for the Pryor Road Improvements project.

C. Meet with WSD and/or City staff in the field to review the base plan sheets for the planned water main alignment and receive WSD's comments. All decisions made in the field will be documented in a memo addressed to WSD's project manager. WSD and the City will approve



the proposed alignment or notify the Consultant with any changes within 2 weeks from the date of the field review.

201 - Prepare Preliminary Construction Drawings

A. TranSystems will prepare preliminary construction drawings for the proposed water main.

B. The preliminary drawings will include the proposed alignment, existing and proposed ground-surface profile, above-ground and buried utilities crossing locations and connection details. A profile of the water main will be developed to show grade of pipeline segments and elevations of critical points, such as changes in grade and sewer line crossings.

C. TranSystems will perform an in-house quality review and make plan revisions accordingly prior to submitting the plan set for review by WSD and the City. The initials of the individual performing the quality review will be noted on the title block of the plans.

202 - Submit Preliminary Plans

A. TranSystems will submit a PDF of the preliminary plans to WSD and the City for review.

B. TranSystems will conduct one (1) review meeting with WSD and the City to review the project's progress and to receive review comments. This meeting may be conducted at WSD offices or virtually.

C. Utility Coordination – Water Main Relocation Plans will be distributed to the other utility companies that are impacted by the Pryor Road Improvements project. Additional utility coordination will be conducted to minimize conflicts between the water main relocation and other utility relocation plans.

203 - Preliminary Opinion of Probable Construction Cost

A. TranSystems will prepare a preliminary opinion of probable construction cost for the water main improvements and submit it to WSD and the City.

TASK SERIES 300 – FINAL PLANS AND SPECIFICATIONS

300 - Prepare Final Construction Drawings

A. TranSystems will prepare final construction drawings for the proposed water main relocation work. These will include final and interim connection details, dimensions, schedules, and diagrams to clearly define the work required for the water main relocation.

B. TranSystems will prepare final technical specifications for the water main relocation in accordance with WSD's standard plans and specifications. These will be incorporated into the bid documents prepared for the Pryor Road project in accordance with the original agreement.

C. TranSystems will perform an in-house quality review and make revisions to the plans and specifications accordingly prior to submitting the plan set for review by WSD and the City. The initials of the individual performing the quality review will be noted on the title block of the plans.

301 - Submit Final Construction Drawings and Specifications

A. TranSystems will submit a PDF of the Final Plans and Specifications to WSD and the City for review.

B. TranSystems will conduct one (1) review meeting with WSD and the City to review the comments related to the Final Plans and Specifications submittal. This meeting may be conducted at WSD offices or virtually.



C. Utility Coordination – Final Water Main Relocation Plans will be distributed to the other utility companies that are impacted by the Pryor Road project. Additional utility coordination will be conducted to minimize conflicts between the water main relocation and other utility relocation plans.

302 - Finalize Drawings for Bidding

A. TranSystems will address review comments related to the Final Plans and Specifications review meeting and finalize the construction drawings. One PDF copy of the final construction drawings and specifications will be submitted to WSD and the City.

B. TranSystems will include a PDF set of signed and sealed construction drawings in the bid package for the Pryor Road Improvements project.

303 - Prepare Final Opinion of Probable Cost

A. TranSystems will prepare a final opinion of probable construction cost for the water main improvements and submit it to WSD and the City.

TASK SERIES 400 - PREPARE AS-BUILT PLANS FOR WSD

400 – As Built Plans

A. The contractor will be required to survey and joints, fittings, connections, etc. per WSD standard specifications. This work will be done by a Registered Land Surveyor duly licensed in the State of Missouri. This information will be provided to TranSystems by the WSD inspector present during construction. TranSystems will use this information to prepare "As Built" plans in accordance with WSD specifications.

B. A final PDF will be submitted to WSD and the City for their review of the "as built" plan data. Comments will be provided to TranSystems, and incorporated into the "as built" plans.

C. TranSystems will submit the final "as built" plan set to WSD.

16-INCH LEE'S SUMMIT WATER MAIN

There are six (6) locations along Pryor Road between Hook Road and Scherer Road that may require relocation of the City of Lee's Summit's 16-inch water main. This task includes coordination with Lee's Summit Water Utilities (LS Water), project administration, preliminary and final design and preparation of final construction drawings and specifications for bidding. All work will be performed in accordance with LS Water standard details and procedures. This task also includes performing quality assurance and quality control (QA/QC) reviews prior to submittal on all plans and documents. Drawings will show plans and details for the proposed improvements with the water main profile. Plans will be based on the survey utilized for the Pryor Road Improvements project. The water main construction drawings will include:

- LS Water Cover Sheet
- LS Water Legend
- LS Water General Notes
- General Layout Map
- Plan and Profile Sheets
- Connection Details.

The water main construction drawings will be included in the construction drawings for the Pryor Road Improvements project and bid as part of that project. No separate bid for the water main improvements is included in this agreement.



TranSystems will prepare Technical Specifications for the LS Water main to inform the contractor that this portion of the project will need to comply with LS Water standards and specifications. The specifications will be part of the contract documents prepared under the original agreement.

The specific design criteria for the water main will include the following:

- Fire hydrants impacted by the water main relocation or affected by the roadway improvements will be noted for relocation along the water main per City code or as approved by the City.
- No new right-of-way or easement is anticipated for this task. It is the intent that the water main will be relocated within the existing LS Water easement or within existing rights-of-way, or those easements or rights-of-way defined for the roadway project.
- No new valves are anticipated for the project. However, should the portion of the main being relocated include a valve (standard shut-off valve or air release valve) a new valve will be shown in a similar location on the relocated main.
- Perform QA/QC reviews prior to all plan submittals.

The basic Scope of Services for this Project is organized into three major Task Series:

- Task Series 100 Project Administration
- Task Series 200 Preliminary Plans
- Task Series 300 Final Plans
- Task Series 400 As Built Plans

TASK SERIES 100 - PROJECT ADMINISTRATION

100 - Conduct Project Administration Services

A. Design Professional will provide the management functions needed to complete the preliminary and final design work, including all project correspondence with the City; consultation with the City's staff; supervision and coordination of services; implementation of a project-specific work plan, procedures, and a quality control/quality assurance plan; scheduling and assignment of personnel resources, continuous monitoring of work progress; and invoicing for the work performed. Design Professional shall prepare and distribute meeting minutes for action items of plan review to the City.

101 - Initial Project Meeting

A. An initial project meeting will be conducted by the Design Professional at City of Lee's Summit offices or virtually. The intent of this meeting is to discuss the details of the project and ensure that all parties are clear on the project expectations and outcome.

TASK SERIES 200 – PRELIMINARY DESIGN

200 - Preliminary Layout Drawing Review

A. Two of the six locations Impacted by the Pryor Road project are increasing the amount of fill over the existing water main. TranSystems will work with LS Water and the pipe manufacturer to determine if these areas require relocation, or if other protective measures can be utilized to allow the main to remain in place, or if the additional cover can be placed with no impact to the existing main. There are four more locations where the amount of cover is being reduced over the existing main. TranSystems will coordinate with LS Water to



determine if the reduced cover is significant enough to require relocation, or if other options are available to allow the main to remain in place.

B. TranSystems will create base plan sheets for up to 5,600 linear feet of water main relocation. These sheets will include existing utilities and surface features in the right-of-way and/or easement, including the proposed new water main alignment in 1"=20' scale on 22"x34" sheets for construction drawings. The sheets will be prepared using the existing mapping previously acquired for the Pryor Road improvement project.

C. Meet with LS Water staff in the field to review the base plan sheets for the planned water main alignment and receive LS Water's comments. All decisions made in the field will be documented in a memo addressed to LS Water's project manager. The City will approve the proposed alignment or notify the Consultant with any changes within 2 weeks from the date of the field review.

201 - Prepare Preliminary Construction Drawings

A. TranSystems will prepare preliminary construction drawings for the proposed water main.

B. The preliminary drawings will include the proposed alignment, existing and proposed ground-surface profile, above-ground and buried utilities crossing locations, relocated valves, branch-line connections, and connection details. A profile of the water main will be developed to show grade of pipeline segments and elevations of critical points, such as changes in grade and sewer line crossings.

C. TranSystems will perform an in-house quality review and make plan revisions accordingly prior to submitting the plan set for review by LS Water. The initials of the individual performing the quality review will be noted on the title block of the plans.

202 - Submit Preliminary Plans

A. TranSystems will submit a PDF of the preliminary plans to LS Water for review.

B. TranSystems will conduct one (1) review meeting with LS Water to review the project's progress and to receive its review comments. This meeting will be conducted at City of Lee's Summit offices or virtually.

C. Utility Coordination – Water Main Relocation Plans will be distributed to the other utility companies that are impacted by the Pryor Road Improvements project. Additional utility coordination will be conducted to minimize conflicts between the water main relocation and other utility relocation plans.

203 - Preliminary Opinion of Probable Construction Cost

A. TranSystems will prepare a preliminary opinion of probable construction cost for the water main improvements and submit it to LS Water.

TASK SERIES 300 – FINAL PLANS

300 - Prepare Final Construction Drawings

A. TranSystems will prepare final construction drawings for the proposed water main relocation work. These will include final and interim connection details, dimensions, schedules, and diagrams to clearly define the work required for the water main relocations.

B. TranSystems will prepare final technical specifications for the water main relocation in accordance with LS Water's standard plans and specifications. These will be incorporated into



the bid documents prepared for the Pryor Road Improvements project in accordance with the original agreement.

C. TranSystems will perform an in-house quality review and make revisions to the plans and specifications accordingly prior to submitting the plan set for review by LS Water. The initials of the individual performing the quality review will be noted on the title block of the plans.

301 - Submit Final Completion Drawings

A. TranSystems will submit a PDF of the Final Plans and Specifications to LS Water for review.

B. TranSystems will conduct one (1) review meeting with LS Water to review the comments related to the Final Plans and Specifications submittal. This meeting may be conducted at City of Lee's Summit offices or virtually.

C. Utility Coordination – Final Water Main Relocation Plans will be distributed to the other utility companies that are impacted by the Pryor Road project. Additional utility coordination will be conducted to minimize conflicts between the water main relocation and other utility relocation plans.

302 - Finalize Drawings for Bidding

A. TranSystems will address review comments related to the Final Plans and Specifications review meeting and finalize the construction drawings. One PDF copy of the final construction drawings and specifications will be submitted to City Water.

B. TranSystems will include a PDF set of signed and sealed construction drawings in the bid package for the Pryor Road Improvement project.

303 - Prepare Final Opinion of Probable Cost

A. TranSystems will prepare a final opinion of probable construction cost for the Project and submit it to LS Water.

TASK SERIES 400 - PREPARE AS-BUILT PLANS FOR CITY WATER

400 – As Built Plans

A. The contractor will be required to survey and joints, fittings, connections, etc. per LS Water standard specifications. This work will be done by a Registered Land Surveyor duly licensed in the State of Missouri. This information will be provided to TranSystems by the WSD inspector present during construction. TranSystems will use this information to prepare "As Built" plans in accordance with City Water specifications.

B. A final PDF will be submitted to City Water for their review of the "as built" plan data. Comments will be provided to TranSystems, and incorporated into the "as built" plans.

C. TranSystems will submit the final "as built" plan set to LS Water.

LANDSCAPING PLAN

The City requested a landscaping plan be included in the project in accordance with funding applications and the public information about the project. A budget for design and construction was established at approximately \$350,000. Landscaping work may be located on City right-of-way, or on private property. The intent is to create several "places" along the project where landscaping can be accommodated. These could be at intersections, approaches to intersections or at strategic locations along the multi-use trail on the west side of Pryor Road. The following more specifically outlines the tasks to be undertaken to create the landscaping plan.



TASK 1 - CONCEPT DESIGN

The following outline is a summary of the products to be included in the Concept Design phase. Upon approval of this concept it will become the basis for Preliminary Design. Tasks in this phase include:

- 1.1 <u>Kick-off Meeting</u>: An initial kick-off meeting will be held with the City to go over the intended design process and make sure we're all in synch with the project approach.
- 1.2 <u>Site Inventory</u>: A site visit will be performed to assess existing topography, drainage patterns, existing and proposed vegetation, structures and overall character for use in designing enhancements that are context sensitive to the surrounding landscape. A site analysis presentation graphics is not included in this agreement.
- 1.3 <u>Landscape Concept</u>: An overall concept for the corridor will be developed based upon information provided by the City and gathered at the Site Inventory. The concept will include general layout and plant types. As part of the concept an analysis of the existing shared-use trail alignment will be performed to look for low impact areas (limited r/w required) where the trail can be shifted in order to create areas for landscaping. Potential modifications will be shown on the concept exhibit for discussion with the City.
- 1.4 <u>Final Landscape Concept Design</u>: The concept design will be finalized for the corridor based upon feedback provided by the City and design team.
- 1.5 <u>Present Final Concept Design</u>: The final concept will be presented at a virtual meeting.

The concept plan exhibit will be delivered in PDF format and may include hand-drawn plans, sketches and/or photographic reference of proposed enhancements to convey the design intent.

TASK 2 – PRELIMINARY DESIGN

The following outline is a summary of the products to be included in the Preliminary Design phase. Upon approval of these plans they will become the basis for Final Design. Tasks include:

- 2.1 <u>Preliminary Landscape Plans</u>: A preliminary landscape plan will be developed for the corridor based on the approved Concept Design. The following plans will be prepared:
 - a. Landscape plans and pertinent details
 - b. Bid quantities, notes and plant schedules

Preliminary Landscape Plans will be submitted to for review.

- 2.2 <u>Technical Specifications</u>: An index of anticipated specifications will be created.
- 2.3 <u>Preliminary Opinion of Probable Costs</u>: A preliminary opinion of probable costs will be prepared based on the Preliminary Design documents. This estimate will break down the project costs and will include bid items, quantities, and unit costs.
- 2.4 Field Check: A field check review meeting with conducted with the City.
- 2.5 <u>Revise and Resubmit Preliminary Plans</u>: One (1) set of revised plans will be submitted to the City following the field check.

The plans, specification index and opinion of probable costs will be delivered in PDF format.

TASK 3 - FINAL DESIGN

The following outline is a summary of the products to be included in the Final Design phase. Tasks include:



- 3.1. <u>Final Landscape Plans</u>: Final landscape plan will be prepared based upon approved Preliminary Design plans and direction from the City. The following plans will be prepared:
 - a. Landscape plans and details
 - b. Bid quantities, notes, and plant schedules

Final Landscape Plans will be submitted for review and approval.

- 3.2. <u>Technical Specifications</u>: Technical Specifications and Special Provisions will be produced as related to the Scope of Services defined herein. They will be delivered in Word and/or PDF format.
- 3.3. <u>Final Opinion of Probable Costs</u>: A final opinion of probable costs will be prepared based on the Final Landscape Plans. This estimate will break down the landscaping costs and will include bid items, quantities, and unit costs.
- 3.4. <u>Final PS&E</u>: Final revisions will be made, if necessary, and final PS&E will be submitted to the City.

The plans, specifications and opinion of probable costs will be delivered in PDF, Word and Excel format.

ESTABLISH EXISTING RIGHTS-OF-WAY AND LOTS FROM NEW PLATS

There have been two additional plats approved by the city since the original surveys were completed, and one additional plat is pending. The Retreat at Hook Farms is located on the northeast corner of Pryor Road and Hook Road. Hook Farms is located on the west side of Pryor Road north and south of 26th Terrance. Whispering Woods is also in the process of platting additional lots on the east side of Pryor Road, also north and south of 26th Terrace. This plat is still in process and has not been approved.

The first two plats have been filed and will be added to our existing right-of-way information. The third plat will be added as it is approved.

Registered land surveyors, duly licensed in the State of Missouri will incorporate this information into our existing rights-of-way and easement base mapping make it reflect the current property status. The City has provided title work for all other parcels and will provide title work for these lots as well to enable TranSystems to include ownership information on the plans.

STAKING CENTERLINE OF PRYOR ROAD

The City requested that the proposed centerline of Pryor Road be staked so that as utilities begin their relocation work, there will be physical indicators in the field that relate back to the plans. The overall project length is approximately 14,400 feet along Pryor Road from just south of Hook Road to just north of Longview Road. The TranSystems team will stake the proposed centerline with PK/Mag Nails and whiskers at 300-ft stations throughout the corridor. This staking will be provided once. Should additional staking or replacement of the staking be required, said services will be negotiated at that time.

END OF SCOPE OF SERVICES