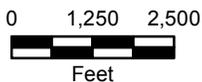
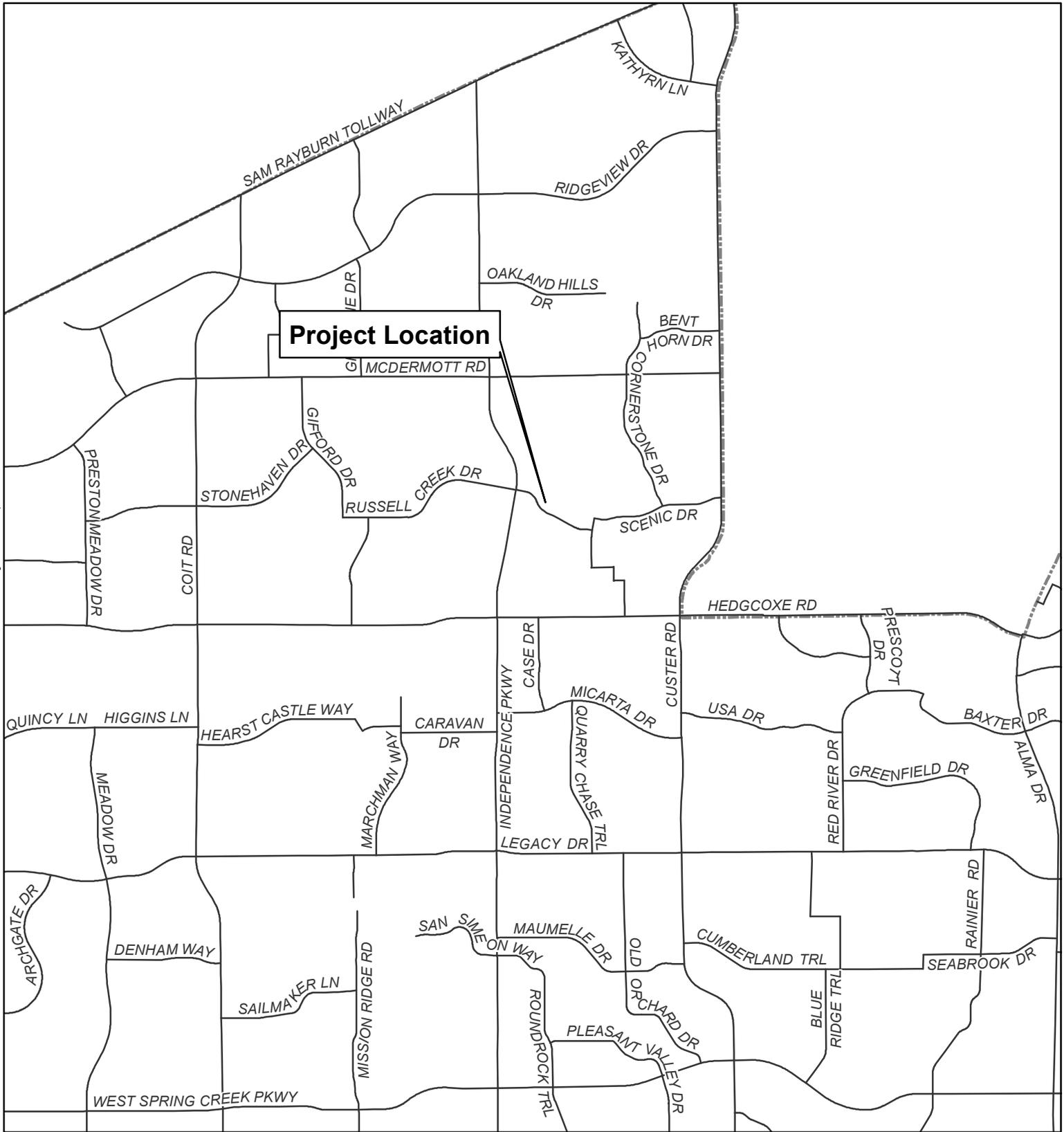




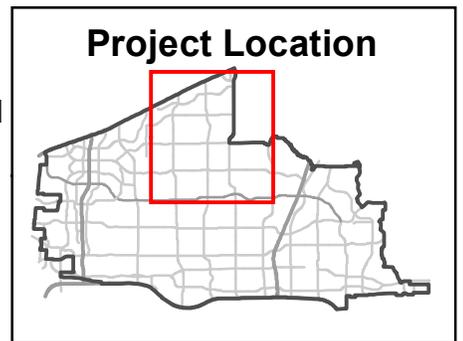
**CITY OF PLANO
COUNCIL AGENDA ITEM**

CITY SECRETARY'S USE ONLY				
<input type="checkbox"/> Consent <input type="checkbox"/> Regular <input type="checkbox"/> Statutory				
Council Meeting Date:		04/25/16		
Department:		Engineering		
Department Head:		Caleb Thornhill, P.E.		
Agenda Coordinator (include phone #): Kathleen Schonne (7198)				Project No. 6519.1
CAPTION				
To approve a Professional Services Agreement by and between the City of Plano and Pacheco Koch, LLC, in the amount of \$234,721, for Russell Creek Drive Improvements – Independence to Sutherland – Paving, Drainage, and Slope Stabilization, and authorizing the City Manager to execute all necessary documents.				
FINANCIAL SUMMARY				
<input type="checkbox"/> NOT APPLICABLE <input type="checkbox"/> OPERATING EXPENSE <input type="checkbox"/> REVENUE <input checked="" type="checkbox"/> CIP				
FISCAL YEAR: 2015-16	Prior Year (CIP Only)	Current Year	Future Years	TOTALS
Budget	98,275	1,971,725	0	2,070,000
Encumbered/Expended Amount	-98,275	-201,385	0	-299,660
This Item	0	-234,721	0	-234,721
BALANCE	0	1,535,619	0	1,535,619
FUND(S): STREET IMPROVEMENTS CIP				
<p>COMMENTS: Funding is available for this item in the 2015-16 Street Improvements CIP. Project Design services, in the amount of \$234,721, will leave a current year balance of \$1,535,619 available for project construction or other expenditures related to street improvements.</p> <p>STRATEGIC PLAN GOAL: Obtaining design services for CIP projects relates to the City's Goal of a Financially Strong City with Service Excellence.</p>				
SUMMARY OF ITEM				
See Recommendation Memorandum.				
List of Supporting Documents: Location Map; Recommendation Memorandum; Professional Services Agreement			Other Departments, Boards, Commissions or Agencies N/A	



City of Plano GIS Division
March, 2016

**RUSSELL CREEK DRIVE IMPROVEMENTS
INDEPENDENCE TO SUTHERLAND
PAVING, DRAINAGE, AND SLOPE STABILIZATION
Project No. 6519.1**





Memorandum

TO: Bruce D. Glasscock, City Manager

FROM: B. Caleb Thornhill, P.E., Director of Engineering

DATE: March 24, 2016

SUBJECT: Professional Services Agreement – Russell Creek Drive

The Engineering Department is recommending entering into an agreement with Pacheco Koch, LLC for engineering design services for the Russell Creek Drive Slope Stabilization and Roadway Improvement Project.

Russell Creek Drive, the adjacent hike and bike trail and retaining walls are experiencing significant horizontal and vertical movement between Independence Parkway and Sutherland Lane. The services of Pacheco Koch were employed to study and provide recommendations for repair of the existing slope failure. This agreement is a result of re-scoping the design and construction phase services based on the recommendations provided in the report. The original scope included patch repair of Russell Creek Drive. The revised scope includes reconstruction of the full Russell Creek roadway section and trail from Finsbury Drive to Sutherland Lane. The revised scope also includes a pedestrian bridge across Russell Creek and approximately 900 linear feet of concrete block wall with reaction beams, tiebacks and toe stabilization to achieve global slope stability. Pacheco Koch, LLC was selected based on a shortlist interview of four consultants. The contract fee is for \$234,721.25 and is detailed as follows:

BASIC SERVICES

A. Preliminary Design	\$82,638.00
B. Final Design	\$48,352.00
C. Structural Design	\$43,050.00
Total Additional Basic Services	\$174,040.00

SPECIAL SERVICES

D. Design Survey	\$5,990.00
E. Floodplain Hydraulic Analysis	\$16,880.00
F. Environmental Permitting	\$14,245.00
G. Construction Monitoring	\$15,400.00
H. Direct Expenses	\$8,166.25
Total Additional Special Services	\$60,681.25

Total Additional Fee **\$234,721.25**

**RUSSELL CREEK DRIVE IMPROVEMENTS – INDEPENDENCE TO SUTHERLAND
PAVING, DRAINAGE, AND SLOPE STABILIZATION**

PROJECT NO. 6519.1

**ENGINEERING
PROFESSIONAL SERVICES AGREEMENT**

THIS AGREEMENT is made and entered by and between the **CITY OF PLANO, TEXAS**, a Home-Rule Municipal Corporation, hereinafter referred to as "City", and **PACHECO KOCH, LLC**, a **TEXAS** Limited Liability Company, hereinafter referred to as "Engineer", to be effective from and after the date as provided herein.

WITNESSETH:

WHEREAS, the City desires to engage the services of the Engineer to prepare construction plans, specifications, details and special provisions and to perform other related engineering services in connection with the **RUSSELL CREEK DRIVE IMPROVEMENTS – INDEPENDENCE TO SUTHERLAND - PAVING, DRAINAGE, AND SLOPE STABILIZATION** project located in the City of Plano, Collin County, Texas, hereinafter referred to as the "Project"; and

WHEREAS, the Engineer desires to render such engineering services for the City upon the terms and conditions provided herein.

NOW, THEREFORE, for and in consideration of the covenants contained herein, and for the mutual benefits to be obtained hereby, the parties hereto agree as follows:

I. Employment of the Engineer

The City hereby agrees to retain the Engineer to perform professional engineering services in connection with the Project. Engineer agrees to perform such services in accordance with the terms and conditions of this Agreement.

II. Scope of Services

The parties agree that Engineer shall perform such services as are set forth and described in Exhibit "A", which is attached hereto and thereby made a part of this Agreement. The parties understand and agree that deviations or modifications in the form of written contract modifications may be authorized from time to time by the City.

Engineer shall perform his or her professional engineering services with the professional skill and care ordinarily provided by competent engineers practicing in the same or similar locality and under the same or similar circumstances and professional license. All such professional services shall be performed as expeditiously as is prudent considering the ordinary professional skill and care of a competent engineer.

III. Schedule of Work

The Engineer agrees to commence work immediately upon execution of this Agreement, and to proceed diligently with said work, except for delays beyond the reasonable control of Engineer, to completion as described in the Completion Schedule, attached hereto as Exhibit "B" and thereby made a part of this Agreement.

IV. Compensation and Method of Payment

The parties agree that Engineer shall be compensated for all services provided pursuant to this Agreement in the amount and manner described and set forth in the Payment Schedule attached hereto and incorporated herein as Exhibit "C". The contract amount specified in Exhibit "C" shall not be exceeded without the written permission of the City.

V. Information to be Provided by the City

The City agrees to furnish, prior to commencement of work, all that information requested by Engineer and available in City's files.

VI. Insurance

Engineer agrees to meet all insurance requirements, and to require all consultants who perform work for Engineer to meet all insurance requirements, as set forth on Exhibit "D", which is attached hereto and thereby made a part of this Agreement.

Engineer agrees to notify the City of any changes in insurance policy coverage, including but not limited to changes in limits and cancellation. The Engineer shall notify the City in writing of any changes within forty-eight (48) hours of the change. The Engineer's notice shall include a description of the changes and how those changes vary from the insurance requirements of the contract/agreement.

VII. INDEMNITY

THE ENGINEER SHALL INDEMNIFY AND HOLD HARMLESS THE CITY, ITS OFFICERS, OFFICIALS, AGENTS AND EMPLOYEES FROM AND AGAINST ALL CLAIMS, CAUSES OF ACTION, LOSSES, LAWSUITS, JUDGMENTS, FINES, PENALTIES, COSTS, DAMAGES, OR LIABILITY OF ANY CHARACTER, TYPE OR

DESCRIPTION INCLUDING WITHOUT LIMITATION, ALL EXPENSES OF LITIGATION, INCLUDING EXPERT OR CONSULTANT FEES, COURT COSTS, AND ATTORNEY'S FEES, RESULTING FROM PERSONAL INJURY (INCLUDING DEATH), PROPERTY DAMAGE OR OTHER HARM, TO THE EXTENT SUCH PERSONAL INJURY, PROPERTY DAMAGE OR HARM ARISES OUT OF OR IS OCCASIONED BY THE NEGLIGENCE, INTENTIONAL TORT, INTELLECTUAL PROPERTY INFRINGEMENT, OR FAILURE TO PAY OBLIGATIONS OWED BY THE ENGINEER, ITS OFFICERS, AGENTS, EMPLOYEES, CONSULTANTS, AND REPRESENTATIVES, IN THE PERFORMANCE OF THIS AGREEMENT.

IF THE CITY DEFENDS AN ACTION, CLAIM, LAWSUIT OR OTHERWISE INCURS ATTORNEY'S FEES AS A RESULT OF AN INDEMNIFIED CLAIM AS STATED ABOVE, ENGINEER AGREES TO REIMBURSE THE CITY IN PROPORTION TO THE ENGINEER'S LIABILITY.

VIII. Independent Contractor

Engineer covenants and agrees that Engineer is an independent contractor and not an officer, agent, servant or employee of City; that Engineer shall have exclusive control of and exclusive right to control the details of the work performed hereunder and all persons performing same, and shall be responsible for the acts and omissions of its officers, agents, employees, contractors, subcontractors and consultants; that the doctrine of respondeat superior shall not apply as between City and Engineer, its officers, agents, employees, contractors, subcontractors and consultants, and nothing herein shall be construed as creating a partnership or joint enterprise between City and Engineer.

IX. Assignment and Subletting

The Engineer agrees that neither this Agreement nor the work to be performed hereunder will be assigned or sublet without the prior written consent of the City. The Engineer further agrees that the assignment or subletting of any portion or feature of the work or materials required in the performance of this Agreement shall not relieve the Engineer from its full obligations to the City as provided by this Agreement.

X. Audits and Records/Prohibited Interest

The Engineer agrees that at any time during normal business hours and as often as City may deem necessary, Engineer shall make available to representatives of the City for examination all of its records with respect to all matters covered by this Agreement, and will permit such representatives of the City to audit, examine, copy and make excerpts or transcripts from such records, and to make audits of all contracts, invoices, materials, payrolls, records of personnel, conditions of employment and other data relating to all matters covered by this Agreement, all for a period of one (1) year

from the date of final settlement of this Agreement or for such other or longer period, if any, as may be required by applicable statute or other lawful requirement.

The Engineer agrees that it is aware of the prohibited interest requirements of the City Charter and Code of Conduct and will abide by the same. Further, a lawful representative of Engineer shall execute the affidavit shown in Exhibit "E". Engineer understands and agrees that the existence of a prohibited interest during the term of this contract will render the contract voidable.

XI. Contract Termination

The parties agree that City shall have the right to terminate this Agreement with or without cause upon thirty (30) days written notice to Engineer. In the event of such termination, Engineer shall deliver to City all finished or unfinished documents, data, studies, surveys, drawings, maps, models, reports, photographs or other items prepared by Engineer in connection with this Agreement. Engineer shall be entitled to compensation for any and all work completed to the satisfaction of City in accordance with the provisions of this Agreement prior to termination.

XII. Engineer's Opinion of Probable Construction Costs

The parties recognize and agree that any and all opinions of probable construction costs prepared by Engineer in connection with the Project represent the best judgment of Engineer as a design professional familiar with the construction industry, but that the Engineer does not guarantee that any bids solicited or received in connection with the Project will not vary from opinions prepared by Engineer.

XIII. Ownership of Documents

Original drawings and specifications are the property of the Engineer; however, the Project is the property of the City and Engineer may not use the drawings and specifications therefor for any purpose not relating to the Project without City's consent. City shall be furnished with such reproductions of drawings and specifications as City may reasonably require. Upon completion of the work or any earlier termination of this Agreement under Article XI, Engineer will revise drawings to reflect changes made during construction and he will promptly furnish the City with one (1) complete set of reproducible record prints. Prints shall be furnished, as an additional service, at any other time requested by City. All such reproductions shall be the property of the City who may use them without Engineer's permission for any proper purpose including, but not limited to, additions to or completion of the Project. However, use of the documents for other than their intended purpose shall be at the sole risk of the City.

XIV. Complete Contract

This Agreement, including the Exhibits lettered "A" through "E", constitute the entire agreement by and between the parties regarding the subject matter hereof and supersedes all prior or contemporaneous written or oral understandings. This Agreement may only be amended, supplemented, modified or canceled by a duly executed written instrument.

XV. Mailing of Notices

Unless instructed otherwise in writing, Engineer agrees that all notices or communications to City permitted or required under this Agreement shall be addressed to City at the following address:

City of Plano
Attn: Husain Hamza, P.E.
Engineering Department, Suite 250
P.O. Box 860358
Plano, TX 75086-0358

City agrees that all notices or communications to Engineer permitted or required under this Agreement shall be addressed to Engineer at the following address:

Pacheco Koch, LLC
Attn: D. Ryan Plasse, P.E., C.F.M.
8350 N. Central Expressway, Suite 1000
Dallas, TX 75206-1612

All notices or communications required to be given in writing by one party or the other shall be considered as having been given to the addressee on the date such notice or communication is posted by the sending party.

XVI. Miscellaneous

A. Paragraph Headings:

The paragraph headings contained herein are for convenience only and are not intended to define or limit the scope of any provision in this Agreement.

B. Contract Interpretation:

Although this Agreement is drafted by the City, should any part be in dispute, the parties agree that the Agreement shall not be construed more favorably for either party.

C. Venue/Governing Law:

The parties agree that the laws of the State of Texas shall govern this Agreement, and that it is performable in Collin County, Texas. Exclusive venue shall lie in Collin County, Texas.

D. Successors and Assigns:

City and Engineer, and their partners, successors, subcontractors, executors, legal representatives, and administrators are hereby bound to the terms and conditions of this Agreement.

E. Severability:

In the event a term, condition, or provision of this Agreement is determined to be void, unenforceable, or unlawful by a court of competent jurisdiction, then that term, condition, or provision, shall be deleted and the remainder of the Agreement shall remain in full force and effect.

F. Effective Date:

This Agreement shall be effective from and after execution by both parties hereto.

G. Authority to Sign:

The undersigned officers and/or agents of the parties hereto are the properly authorized officials and have the necessary authority to execute this Agreement on behalf of the parties hereto.

SIGNED on the date indicated below.

PACHECO KOCH, LLC
A Texas Limited Liability Company

DATE: _____

BY: _____
Mark A. Pacheco, P.E., R.P.L.S.
PRESIDENT

CITY OF PLANO, TEXAS

DATE: _____

BY: _____
Bruce D. Glasscock
CITY MANAGER

APPROVED AS TO FORM:

Paige Mims
CITY ATTORNEY

ACKNOWLEDGMENTS

STATE OF TEXAS §
 §
COUNTY OF DALLAS §

This instrument was acknowledged before me on the _____ day of _____, 2016, by **MARK A. PACHECO, P.E., R.P.L.S., PRESIDENT**, of **PACHECO KOCH, LLC**, a **TEXAS** Limited Liability Company, on behalf of said limited liability company.

Notary Public, State of Texas

STATE OF TEXAS §
 §
COUNTY OF COLLIN §

This instrument was acknowledged before me on the _____ day of _____, 2016, by **BRUCE D. GLASSCOCK, CITY MANAGER**, of the **CITY OF PLANO, TEXAS**, a Home-Rule Municipal Corporation, on behalf of said municipal corporation.

Notary Public, State of Texas

EXHIBIT A SCOPE OF SERVICES

RUSSELL CREEK DRIVE IMPROVEMENTS – INDEPENDENCE TO SUTHERLAND PAVING, DRAINAGE, AND SLOPE STABILIZATION PROJECT NO: 6519.1 CIP NO: 31464

PROJECT DESCRIPTION:

Russell Creek Drive, the adjacent hike and bike trail and retaining walls are experiencing significant horizontal and vertical movement between Independence Parkway and Sutherland Lane. Conceptual design alternatives have been developed for the three global slope failures. The preliminary design, final design phases, bid phase and construction phases services are being rescope based on the conceptual design as per the original scope of services contract for Russell Creek Drive Improvements. The design services will include the following:

- Global Slope Stabilization of 900 linear feet of stream bank
- Reconstruction of 1,700 linear feet of Russell Creek Drive
- Reconstruction of 1,600 linear feet of Hike and Bike Trail
- Construction of 100 linear feet of new Hike and Bike Trail
- Construction of a new Pedestrian Bridge across Russell Creek

The project scope will include construction documents for a continuous beam with piers, retaining walls, stream bank toe erosion protection and pavement reconstruction of the street and trail. Construction documents will also be developed for a pedestrian bridge crossing and an informal public access. A public meeting will be conducted during final design to keep the public informed on the progress of the project. The overall project may be phased as directed by City staff into separate construction documents (plans, special provisions and estimates) for up to two (2) stand-alone projects. The first anticipated phase of construction will include stabilizing the three slope failure areas, along with the installation of slope inclinometers to monitor the slope movement. Phase II will include the reconstruction of the roadway and trail.

The services to be provided for this project include project management, topographic surveys, subsurface utility exploration, geotechnical investigations, USACE 404 permitting, drainage analysis, development of preliminary construction plans, development of final construction plans and special specifications, construction administration and bid phase services.

A topographic survey and a geotechnical study was previously prepared for the project by Verdunity, Inc. as outlined in their final report, *Russell Creek Pavement and Hike and Bike Trail*, date November 13, 2014. This information will be incorporated to the maximum extent feasible in development of construction plans.

BASIC SERVICES:

A. Design Standards

1. This project shall be designed in accordance with the following:

City of Plano:

- Geodetic Monumentation Manual
- Manual for Right-of-Way Management
- Storm Drainage Design Manual
- Stream Bank Stabilization Manual
- Erosion & Sediment Control Manual
- Thoroughfare Standards Rules & Regulations
- Manual for the Design of Water & Sanitary Sewer Lines
- Standard Construction Details
- Special Provisions to Standard Specifications for Public Works Construction, 1997
- Sample Plan Set
- Parks Department Standard Details for Landscaping & Irrigation
- 2009 Parks Department Standard Details for Trails
- Previous studies prepared by others
- As-built plans for portions of surrounding infrastructure

AASHTO:

- 2012 Bike Guide

ADA:

- Trail Requirements

NCTCOG:

- Standard Specifications for Public Works Construction, 1998 Amendment

ASCE:

- Publication CI/ASCE 38-02 (Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data)

2. All plans submitted to the City shall be signed and sealed in accordance with state law.

B. Preliminary Design (Phase I and II) – Preliminary design will accommodate up to two (2) phases of construction with detailed construction phasing to be determined after the geotechnical investigation and conceptual design are completed. The overall project may be phased as directed by City staff into separate construction documents (plans, special provisions and estimates) for up to two (2) stand-alone projects. The first anticipated phase of construction will include stabilizing the three slope failure areas, along with the installation of slope inclinometers to monitor the slope movement. Phase II will include the reconstruction of the roadway and trail. Plans for both phases of construction are anticipated to be submitted and reviewed concurrently.

1. Prepare preliminary construction plans. Prepare the following sheets for the anticipated phase and at the engineering scale indicated:

- Cover sheet (Phase I and II)
- Project layout control sheet(s) (Phase I and II). Scale 1"= 100'.
- Quantity sheet (Phase I and II).
- Typical sections and detail sheets (Phase I and II).
- Construction phasing and temporary traffic control sheets (Phase I and II). Scale 1"= 20'.
- Slope stabilization and wall plan & profiles sheets (Phase I). Scale 1" = 20'.
- Toe stabilization plan with typical sections and details (Phase I). Scale 1"=20'.
- Paving plan & profile sheets for street reconstruction (Phase II). Scale 1"= 20'.
- Drainage area maps to determine existing street capacities along Russell Creek Drive Scale (Phase II). 1"= 100'.
- Storm drain plan & profile sheets for storm improvements (Phase II). Scale 1"= 20'.
- Trail replacement and creek access plan (Phase II). Scale 1"=20'.
- Pedestrian Bridge Crossing plan and profile sheets and details. Scale 1"=20'
- Hardscape details (Phase II).
- Temporary pavement plan (Phase I). Scale 1" = 40'.
- Temporary planting plan (Phase I). Scale 1" = 40'.
- Planting plan and details (Phase II). Scale 1"=20'
- Construction erosion control plan sheet(s) (Phase I and II). Scale 1"= 40'.
- SWPPP Narrative sheet meeting TCEQ and City of Plano requirements (Phase I and II).
- Pavement marking plan sheets (Phase II). Scale 1"= 40'.

Information required can be combined on sheets if the information can be clearly shown and is approved by the City of Plano project manager.

2. Coordinate with affected utilities such as water, sewer, gas, telephone, cable TV and electric to obtain accurate information for the location of their facilities.
3. Prepare an outline list of special technical specifications needed for the project (if any).
4. Prepare an estimate of construction quantities and develop the preliminary statement of probable construction cost (Phase I and II).
5. Submit five (5) half size sets of preliminary plans, outline list of special technical specifications, Geotechnical investigation and preliminary statement of probable construction cost to the City departments for review.
6. Provide an electronic (PDF format) half size set of preliminary utility coordination drawings (11" x 17" sheets to scale) to the City for distribution to the franchise utility companies affected by the construction. Utility coordination drawings shall include the cover sheet, typical sections, paving sheets, cross sections and SUE field sketches.
7. Submit preliminary Phase II plans for third party TDLR/TAS review. Submittal and review fees will be paid as reimbursable expenses.
8. Meet with City of Plano staff to discuss City comments on preliminary plans, specifications, cost estimates and construction phasing.

C. Final Design (Phase I and II)

1. Revise preliminary plans incorporating comments from the City of Plano.
2. Incorporate comments from the utility companies.
3. Incorporate comments from TDLR/TAS review.
4. Finalize construction plans for proposed improvements.
5. Finalize special technical specifications and special conditions (if any).
6. Incorporate standard details into the construction plans and prepare additional details as required.
7. Take off final construction quantities and prepare pre-final construction cost estimates.
8. Submit five (5) half size sets of pre-final plans, special technical specifications, draft bid schedule and final statement of probable construction cost to the City for review.
9. Provide an electronic (PDF format) half size set of pre-final utility coordination drawings (11" x 17" sheets to scale) to the City for distribution to the franchise utility companies affected by the construction. Utility coordination drawings shall include the cover sheet, typical sections, paving sheets and SUE field sketches.
10. Incorporate City final comments into the plans and bid documents.
11. Submit an electronic copy of the corrected bid schedule and special technical specifications in MS Word format to the City for inclusion in the bid document. The City will provide the original unbound bid document to the Consultant for printing purposes.
12. Submit three (3) sets of final black line prints, three bound copies of the bid documents and one (1) unbound original bid document set to the City of Plano.

13. Attend a utility coordination meeting to start relocation process with affected franchise utilities. Distribute copy of final plans and proposed schedule for bid letting and construction to all affected franchise utilities.

D. Structural Analysis

1. **Retaining Wall Design** - Final design and analysis of the Retaining Wall system will be provided by our structural sub-consultant. The analysis will include both global and local stability. Structural details for the retaining walls will be provided.
2. **Continuous Beam and Pier Design** - Final design and analysis of the continuous beam and piers system for the retaining wall foundation and global slope stability will be provided by our sub-consultant. Structural details specifications for the continuous beam and piers as well as any required tie-backs will be provided.
3. **Bridge Abutment Design** - Structural design of abutments for the Pedestrian Bridge crossing will be prepared by our sub-consultant. Structural details for the abutments will be provided.

SPECIAL SERVICES:

E. Design Survey – The design survey will supplement previous survey information provided in the Verdunity study, dated November 13, 2014 and the previous survey by PKCE. Supplemental survey work will include the necessary data for the pedestrian bridge crossing. **The Consultant will rely on this survey as being true and accurate in all respects and assume no liability for errors or conflicts that may arise as a result of inaccurate or incomplete information on said survey.** All survey work to be performed will be conducted according to the following criteria in a 50-foot corridor in the location of the proposed bridge and trail connection:

1. Tie right-of-way lines and corners, property lines and corners, buildings, fence lines, edges of pavements and all other visible surface features to the project control baseline. Existing utility structures shall be located and referenced by utility name (i.e. OnCor Elec., Verizon Telephone, Atmos Gas, Etc.).
2. Vertical topographic information tying pavement, drives, walls, manholes (top and inverts), storm drain inlets (top and inverts), and other improvements as needed within the project areas for the design.
3. When underground utilities are exposed, tie to project control baseline.
4. Identify the street address of all adjacent properties to the proposed construction and show on drawings.

F. Floodplain Hydraulic Analysis

1. Drainage analysis of Russell Creek will be conducted during the preliminary design phase to aid in the impacts of the proposed

improvements on the Russell Creek floodplain. The analysis will include preparation of the following:

- Update of the existing FEMA HEC-RAS hydraulic model with the proposed pedestrian bridge crossing
- A report documenting the drainage analysis and proposed impacts on Russell Creek
- Verification Survey of Pedestrian Bridge Construction
- Letter of Map Revision through FEMA.

G. Environmental Permitting

- 1. Permitting Assistance** – A Nationwide 13 (Bank Stabilization) permit with preconstruction notification will be required for toe stabilization within Russell Creek. Permitting assistance and coordination with the United States Army Corps of Engineers will be provided through our environmental sub-consultant
- 2. Archeological Intensive Pedestrian Survey** – The Cultural Resources Assessment determined that an Archeological Survey of the project site would be required to comply the Section 106 of the National Historic Preservation Act and the Antiquities Code of Texas. The survey shall be performed by our sub-consultant and include approximately ten (10) shovel test excavations up to one (1) meter deep. A Cultural Resources Report for the site, documenting the finding of the survey will be prepared.

H. Construction Monitoring

- 1.** Monitor the construction and installation of continuous beam, piers, retaining walls and bridge components based on the structural designs. Monitoring services will be provided by our structural sub-consultant on a daily basis, as requested by the CITY.
- 2.** Monitor the slope movement after the installation of the continuous beam, piers and retaining walls are constructed. The slope inclinometers will be installed by the contractor and monitored by our sub-consultant. The slope will be monitored for a two (2) month period after construction is completed.

I. Direct Expenses (Phase I and II)

Included in this item are usual and customary expenses normally incurred during performance of the services described above. These expenses could include FEMA submittal fees, courier delivery charges, copies of existing engineering plans and/or maps, printing and reproduction (either in-house or by reproduction company) and mileage.

**EXHIBIT B
SCHEDULE OF WORK**

Activity	Duration Weeks (Month/Day)
Notice to Proceed	0 (4/18)
Conceptual Design	-
Preliminary Design	10 weeks (7/1)
City First Review	2 weeks (7/15)
Final Design & Preparation of Special Conditions and Technical Specifications	6 weeks (8/26)
City Second Review	2 weeks (9/9)
Revise Final Plans & Specifications	2 weeks (9/23)
City Final Review	1 week (9/30)
Phase I Construction	
Assemble Bid Documents (phase I)	1 week (10/7)
Advertise for Bids (phase I)	1 week (10/16)
Receive Bids	2 weeks (11/3)
Research Bidder(s) and Prepare Recommendation	1 week (11/10)
Prepare City Council Agenda	2 weeks (11/27)
Council Award	0 (11/28)
Prepare & Execute Contract	30 days (12/28)
Schedule Preconstruction Meeting	1 week (1/4)
Notice to Proceed	5 days (1/9)
Phase I Construction	16 Weeks (5/1)
Phase II Construction	
Monitoring of Slope Inclinometer	60 (7/1)
Assemble Bid Documents (phase II)	1 week (4/21)
Advertise for Bids (phase II)	1 week (4/30)
Receive Bids	2 weeks (5/18)
Research Bidder(s) and Prepare Recommendation	1 week (5/26)
Prepare City Council Agenda	2 weeks (6/12)
Council Award	0 (6/12)
Prepare & Execute Contract	30 (7/12)
Schedule Preconstruction Meeting	1 week (7/19)
Notice to Proceed	5 days (7/24)
Phase II Construction	16 weeks (11/16)

A working day is defined as Monday through Friday, excluding City of Plano Holidays.

**EXHIBIT C
PAYMENT SCHEDULE**

WORK STAGE SUBMITTAL OR COMPLETION	TOTAL
BASIC SERVICES	
A. Preliminary Design	\$82,638.00
B. Final Design	\$48,352.00
C. Structural Design	\$43,050.00
Total Additional Basic Services	\$174,040.00
SPECIAL SERVICES	
D. Design Survey	\$5,990.00
E. Floodplain Hydraulic Analysis	\$16,880.00
F. Environmental Permitting	\$14,245.00
G. Construction Monitoring	\$15,400.00
H. Direct Expenses	\$8,166.25
Total Additional Special Services	\$60,681.25
Total Additional Fee	\$234,721.25

EXHIBIT "D"
ENGINEERING
INSURANCE

INSURANCE: (Review this section carefully with your insurance agent prior to bid or proposal submission. See "Insurance Checklist" on the last page or specific coverages applicable to this contract).

1. General Insurance Requirements:

- 1.1 The Engineer (hereinafter called "Engineer") shall not start work under this contract until the Engineer has obtained at his own expense all of the insurance called for here under and such insurance has been approved by the City. Approval of insurance required of the Engineer will be granted only after submission to the Purchasing Agent of original, signed certificates of insurance or, alternately, at the City's request, certified copies of the required insurance policies.
- 1.2 All insurance policies required hereunder shall be endorsed to include the following provision: "It is agreed that this policy is not subject to cancellation, non-renewal, without first providing the Risk Manager, City of Plano, at least ten (10) days prior written notice."
- 1.3 No acceptance and/or approval of any insurance by the City shall be construed as relieving or excusing the Engineer from any liability or obligation imposed upon the provisions of the Contract.
- 1.4 The City of Plano (including its elected and appointed officials, agents, volunteers, and employees) is to be named as an additional insured under Engineer's General Liability Policy, and the certificate of insurance, or the certified policy, if requested, must so state. Coverage afforded under this paragraph shall be primary as respects the City, its elected and appointed officials, agents and employees.
 - 1.4.1 The following definition of the term "City" applies to all policies issued under the contract:

The City Council of the City of Plano and any affiliated or subsidiary Board, Commission Authority, Committee, or Independent Agency (including those newly constituted), provided that such affiliated or subsidiary Board Commission, Authority, Committee, or Independent Agency is either a Body Politic created by the City Council of the City of Plano, or one in which controlling interest is vested in the City of Plano; and City of Plano Constitutional Officers.
- 1.5 The Engineer shall provide insurance as specified in the "Insurance Checklist" (Checklist) found on the last page of the bid or proposal form. Full limits of insurance required in the Checklist of this agreement shall be available for claims arising out of this agreement with the City of Plano.

- 1.6 Engineer agrees to defend and indemnify the City of Plano, its officers, agents and employees as provided in Paragraph VII. of this contract.
- 1.7 Insurance coverage required in these specifications shall be in force throughout the Contract Term. Should the Engineer fail to provide acceptable evidence of current insurance within seven (7) days of written notice at any time during the Contract Term, the City shall have the absolute right to terminate the Contract without any further obligation to the Engineer, and the Engineer shall be liable to the City for the entire additional cost of procuring performance and the cost of performing the incomplete portion of the Contract at time of termination.
- 1.8 Written requests for consideration of alternate coverages must be received by the City Purchasing Manager at least ten (10) working days prior to the date set for receipt of bids or proposals. If the City denies the request for alternative coverages, the specified coverages will be required to be submitted.
- 1.9 All required insurance coverages must be acquired from insurers authorized to do business in the State of Texas and acceptable to the City. The City prefers that all insurers also have a policyholder's rating of "A-" or better, and a financial size of "Class VI" or better in the latest edition of A.M. Best, or A or better by Standard and Poors, unless the City grants specific approval for an exception.
- 1.10 Any deductibles shall be disclosed in the Checklist and all deductibles will be assumed by the Engineer. Engineer may be required to provide proof of financial ability to cover deductibles, or may be required to post a bond to cover deductibles.

2. Engineer's Insurance - "Occurrence" Basis:

- 2.1 The Engineer shall purchase the following insurance coverages, including the terms, provisions and limits shown in the Checklist.
 - 2.1.1 Commercial General Liability - Such Commercial General Liability policy shall include any or all of the following as indicated on the Checklist:
 - i. General aggregate limit is to apply per project;
 - ii. Premises/Operations;
 - iii. Actions of Independent Contractors;
 - iv. Contractual Liability including protection for the Engineer from claims arising out of liability assumed under this contract;
 - v. Personal Injury Liability including coverage for offenses related to employment;
 - vi. Explosion, Collapse, or Underground (XCU) hazards; if applicable. This coverage required for any and all work involving drilling, excavation, etc.
 - 2.1.2 Business Automobile Liability including coverage for any owned, hired, or non-owned motor vehicles and automobile contractual liability.

- 2.1.3 Workers' Compensation - statutory benefits as required by the State of Texas, or other laws as required by labor union agreements, including Employers' Liability coverage.

3.0 Engineer's Insurance – Claims Made

Professional Errors and Omissions

The Engineer shall carry Professional Liability insurance which will pay for injuries arising out of negligent errors or omissions in the rendering, or failure to render professional services under the contract, for the term of the Contract and up to three years after the contract is completed in the amount shown in the Checklist.

Professional Errors and Omissions, Limit \$1,000,000
per claim and aggregate of \$2,000,000

ENGINEERING

City of Plano - Insurance Checklist

("X" means the coverage is required.)

Coverages Required

Limits (Figures Denote Minimums)

<input checked="" type="checkbox"/> 1. Workers' Compensation & Employers' Liability	Statutory limits of State of Texas \$100,000 accident \$100,000 disease \$500,000 policy limit disease
<input type="checkbox"/> 2. For Future Use	
<input type="checkbox"/> 3. City Approved Alternative Workers' Comp. Program	\$150,000 medical, safety program
<input checked="" type="checkbox"/> 4. General Liability	Complete entry No. 26 Minimum \$500,000 each occurrence \$1,000,000 general aggregate
<input checked="" type="checkbox"/> 5. General aggregate applies per project (CGL)	
<input checked="" type="checkbox"/> 6. Premises/Operations	(Items No. 3-10 & 12 require)
<input checked="" type="checkbox"/> 7. Independent Contractors	<u>\$500,000</u> combined single limit for bodily injury and property damage
<input type="checkbox"/> 8. Products	damage each occurrence with
<input type="checkbox"/> 9. Completed Operations	\$1,000,000 general aggregate that applies to project under contract
<input checked="" type="checkbox"/> 10. Contractual Liability	
<input checked="" type="checkbox"/> 11. Personal Injury Liability	\$500,000 each offense & aggregate
<input type="checkbox"/> 12. XCU Coverages	
<input checked="" type="checkbox"/> 13. Automobile Liability	\$500,000 Bodily Injury & Property
<input checked="" type="checkbox"/> 14. Owned, Hired & Non-owned	Damage each accident
<input type="checkbox"/> 15. Motor Carrier Act Endorsement	
<input checked="" type="checkbox"/> 16. Professional Liability	\$1,000,000 each claim \$2,000,000 aggregate
<input type="checkbox"/> 17. Garage Liability	\$_____ BI & PD each occurrence

EXHIBIT "E"

AFFIDAVIT OF NO PROHIBITED INTEREST AND COMPLIANCE WITH CITY OF PLANO'S EQUAL RIGHTS ORDINANCE

A. No Prohibited Interest

I, the undersigned, declare that I am authorized to make this statement on behalf of **Pacheco Koch, LLC**, a limited liability company organized under the laws of the State of Texas, and I have made a reasonable inquiry and, to the best of my knowledge, no person or officer of **Pacheco Koch, LLC**, is employed by the City of Plano or is an elected or appointed official of the City of Plano within the restrictions of the Plano City Charter.

I am aware that Section 11.02 of the City Charter states:

"No officer or employee of the city shall have a financial interest, direct or indirect, in any contract with the city, nor shall be financially interested, directly or indirectly, in the sale to the city of any land, or rights or interest in any land, materials, supplies or service. The above provision shall not apply where the interest is represented by ownership of stock in a corporation involved, provided such stock ownership amounts to less than one (1) per cent of the corporation stock. Any violation of this section shall constitute malfeasance in office, and any officer or employee of the city found guilty thereof shall thereby forfeit his office or position. Any violation of this section with the knowledge, express or implied, of the persons or corporation contracting with the city shall render the contract voidable by the city manager or the city council."

B. Equal Rights Compliance

1. Section 2-11(F) of the City Code of Ordinances reads as follows:

"It shall be unlawful for an employer to discriminate against any person on the basis of race, color, sex, religion, age, national origin, genetic information, sexual orientation, gender identity, disability status or United States military/veteran status by the following actions or inactions:

- (a) for an employer to fail or refuse to hire, or to discharge, any person;
- (b) for an employer to discriminate against any person with respect to compensation, terms, conditions or privileges, of employment;
- (c) for an employer to limit, segregate or classify employees or applicants for employment in any way that would deprive or tend to deprive a person of employment or employment opportunities, or that would otherwise adversely affect a person's status as an employee;
- (d) for an employment agency to fail or refuse to refer for employment, or to otherwise discriminate against, any person because of a protected employment characteristic;
- (e) for an employment agency to classify or refer for employment any person, on the basis of a protected employment characteristic;
- (f) for a labor organization to exclude or expel from its membership, or to otherwise discriminate against, any person because of a protected employment characteristic;
- (g) for a labor organization to fail or refuse to refer for employment any person because of a protected employment characteristic;
- (h) for a labor organization to limit, segregate or classify its members or applicants for membership, in any way that would deprive or tend to deprive a person of employment or employment opportunities, or that would otherwise adversely affect a person's status as an employee or as an applicant for employment; or
- (i) for a labor organization to cause or attempt to cause an employer to discriminate against a person in violation of this subsection;
- (j) for an employer, a labor organization or a joint labor-management committee, to discriminate against any person because of a protected employment characteristic in the admission to, or

- employment in, any program established to provide apprenticeship or other training;
- (k) for an employer to print or publish, or cause to be printed or published, any notice or advertisement relating to employment by the employer that indicates any preference, limitation, specification or discrimination, based on a protected employment characteristic;
- (l) for an employment agency to print or publish, or cause to be printed or published, any notice or advertisement relating to membership in or any classification or referral for employment by the employment agency that indicates any preference, limitation, specification or discrimination, based on a protected employment characteristic; or
- (m) for a joint labor-management committee to print or publish, or cause to be printed or published, any notice or advertisement relating to admission to, or employment in, any program established to provide apprenticeship or other training by the joint labor-management committee that indicates any preference, limitation, specification or discrimination, based on a protected employment characteristic.”

2. I am aware that my company, its directors, officers and employees must comply with Section 2-11(F) of the City Code of Ordinances unless an exclusion applies, as indicated below. Further, I understand that if Section 2-11(F) applies, I am entitled to apply to the City Manager for a waiver from signing this section of the affidavit based on a conflict with state or federal law. The contract will not be executed prior to the waiver issue being resolved.

Having made reasonable inquiry, I affirm that my company, its directors, officers and employees agree to comply with Section 2-11(F); or my company is excluded from this Ordinance based on the following: **[PLEASE CHECK BELOW, IF APPLICABLE]**

_____ A religious organization.

_____ A political organization.

_____ An educational institution.

_____ A branch or division of the United States government or any of its departments or agencies.

_____ A branch or division of the State of Texas or any of its departments, agencies or political subdivisions.

_____ A private club that is restricted to members of the club and guests and not open to the general public.

_____ Is not an “employer” under Section 2-11(F) because it has not had 15 or more employees for each working day in each of 20 or more calendar weeks in the current or preceding calendar year.

[THIS SPACE INTENTIONALLY LEFT BLANK]

I also understand and acknowledge that a violation of Section 11.02 of the City Charter or Section 2-11(F) of the City Code of Ordinances, if applicable, at any time during the term of this contract may render the contract voidable by the City.

Pacheco Koch, LLC

By:

Signature

Print Name

Title

Date

STATE OF TEXAS §
 §
COUNTY OF DALLAS §

SUBSCRIBED AND SWORN TO before me this _____ day of _____, 2016.

Notary Public, State of Texas