

WORK AUTHORIZATION NO. 2
PROJECT: Forest North Drainage Phase 2

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated August 21, 2013 and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and K Friese + Associates (the "Engineer").

Part 1. The Engineer will provide the following Engineering Services set forth in Attachment "B" of this Work Authorization.

Part 2. The maximum amount payable for services under this Work Authorization without modification is \$62,009.00.

Part 3. Payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the Contract.

Part 4. This Work Authorization shall become effective on the date of final acceptance and full execution of the parties hereto and shall terminate on June 30, 2022. The Engineering Services set forth in Attachment "B" of this Work Authorization shall be fully completed on or before said date unless extended by a Supplemental Work Authorization.

Part 5. This Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

Part 6. This Work Authorization is hereby accepted and acknowledged below.

EXECUTED this 5th day of May, 2020.

ENGINEER:

K Friese + Associates

By: [Signature]
Signature

Thomas M. Owens, P.E.

Printed Name

Executive Vice President

Title

COUNTY:

Williamson County, Texas

By: [Signature]
Signature

Bill Gravell Jr.

Printed Name

County Judge

Title

[Signature]
04/27/2020

LIST OF ATTACHMENTS

Attachment A - Services to be Provided by County

Attachment B - Services to be Provided by Engineer

Attachment C - Work Schedule

Attachment D - Rate Schedule

Attachment A
Services to be Provided by County

The County's GEC will provide required contract administration and required construction inspection services.

ATTACHMENT B
SERVICES TO BE PROVIDED BY THE ENGINEER
CONSTRUCTION PHASE SERVICES FOR
FOREST NORTH DRAINAGE IMPROVEMENTS

1. PROJECT MANAGEMENT

- a. Designate one Licensed Professional Engineer (Texas) to be responsible for the project management, and all communication with the County and its representative.
- b. Monthly Progress Reports, Invoices, and Billings (**20** months assumed):
 - Submit monthly progress status reports to the GEC. Progress reports will include: tasks completed, tasks/objectives that are planned for the upcoming periods, lists or descriptions of items or decisions needed from the County and its representatives. Subconsultant progress will be incorporated into the monthly progress report. A copy of the monthly progress report will be uploaded to ProjectWise.
 - Prepare correspondence, invoices, and progress reports on a monthly basis in accordance with current County requirements.

2. RIGHT-OF-WAY (ROW) MAPPING

- a. See following pages for services to be provided by subconsultant.

3. CONSTRUCTION PHASE SERVICES

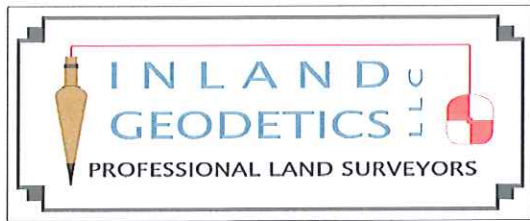
- a. Request for Information - RFIs (**10** assumed):
 - Attend site visits and/or meetings to gather data and information for RFI responses.
 - Respond to Contractor RFIs and provide design clarifications, additional information, and additional data to the GEC as required within seven (7) calendar days.
- b. Review Contractor Submittals & Shop Drawings (**5** assumed):
 - Review Contractor submittals and shop drawings received from the GEC for conformance with the plans and specifications. Provide stamped concurrence, exceptions or resubmittal notations to the Contractor within seven (7) calendar days.
- c. Plan Revisions for Field Changes (**20** sheets assumed):
 - Provide minor revisions to plans in order to address differing site conditions, third party accommodation, or other owner directed changes. Revisions to plans will include revision clouds around any changes, will include descriptions and quantities of changes, CAD files, and will be sealed by a professional engineer. The County will not be billed for plan revisions resulting from engineering errors or omissions.
- d. Attend Meetings (**7** assumed):

- Attend meetings at the project site or Williamson County representative office, as requested. When in attendance, the Engineer will provide meeting minutes and sign in sheet(s).
- Visit the project site on request (**3** hours per visit) during construction to address questions on interpretation of plans.

4. DELIVERABLES:

a. Documents:

- All contract documents, including hard copies and electronic files, will be turned over to the County at the completion of the project. Documents will be posted to the County's project management database as requested.



1504 Chisholm Trail Road
Suite 103
Round Rock, TX 78681
512-238-1200
512-238-1251 fax
TBPLS Firm Reg. No. 10059100

23 Mar 2020

Dan Cryan, P.E.
1120 South Capital of Texas Highway
City View 2, Suite 100
Austin, Texas 78746

RE: Engineering Design Surveying
Project: Williamson County – Forest North Drainage Improvement Project – WA 1

Mr. Cryan:

Inland Geodetics, LLC (Inland) is pleased to submit our proposal for professional land surveying services related to the above referenced project and limited by exhibit attached to email from Allison Densler dated 20 Mar 2020. Below is a specific list of our proposed Scope of Services and estimated costs.

SCOPE OF SERVICES

A. Right of Entry

1. Inland assumes the affected owners have been contacted requesting access for surveying operations and that right-of-entry has been secured. It is anticipated that the majority of this proposal can be accomplished without egress to private property.

B. Construction Phase Services - Surveying

1. Inland will verify the existing primary and secondary datum control for the area of survey as previously established for other work in the area. The values will be relative to NAD 83 Texas State Plane Coordinates, Central Zone 4203 (scaled to surface values). Vertical Datum will be GPS Orthometric heights and projected through the length of the project.
2. Inland will attempt recovery and flagging of lot corners and roadway geometry markers along the ROWs for each of the seven project zones (Shady Oaks, Woodvale, Newberry, Shasta, Norchester, Sherbourne, and Braes Valley). Be advised that some markers may be missing and will not be replaced in this proposal.
3. Inland will perform the tasks for each zone within one week of notification that the specific zone is ready for marking. There will be no deliverables for this proposal.
4. Inland will perform other surveying tasks as needed with supplemental services proposal for scope and fee.

The ESTIMATED Time and Materials fee for the above services: \$24,000.00

The estimated fee proposed above are based on personnel time required to perform the described Scope of Services. Additional time requirements resulting from project scope changes, plan revisions, field recovery of or discrepancies of control provided will be considered reasonable cause for us to seek additional compensation for services not included in these amounts.

Sincerely,

M. Stephen Truesdale
Registered Professional Land Surveyor
Licensed State Land Surveyor
Inland Geodetics, LLC

Attachment C
Work Schedule

The Construction schedule shall be as directed by the GEC and Construction Observer.

Attachement D
 Rate Schedule

| TASK | Notes | SHEETS/ UNITS | PRINCIPAL \$350.00 | SENIOR PROJECT MANAGER \$250.00 | PROJECT ENGINEER \$185.00 | DESIGN ENGINEER \$150.00 | ENGINEER-IN- TRAINING \$125.00 | SENIOR CAD OPERATOR \$120.00 | ADMIN/ CLERICAL \$90.00 | Sub Total | Hr/Unit | KFA Labor Cost | Total Subconsultants | Total Labor Cost |
|--|-------|------------------|-----------------------|--|---------------------------------|--------------------------------|--------------------------------------|------------------------------------|-------------------------------|-----------|---------|----------------|-------------------------|---------------------|
| Hourly Rate: | | | | | | | | | | | | | | |
| K Friese & Associates, Inc. | | | Hours | | | | | | | Hours | | \$ | \$ | \$ |
| 3 Construction Phase Services | | | | | | | | | | | | | | |
| 1 Project Management | | | | | | | | | | 0 | | \$ - | \$ - | \$ - |
| a PM Management & Communication with County & GEC | | | | 1 | 8 | 40 | | | | 49 | | \$ 7,730.00 | \$ - | \$ 7,730.00 |
| b Monthly Progress Reports, Invoices, Billings (20 months) | | | | | | 20 | | | 20 | 40 | | \$ 4,800.00 | \$ - | \$ 4,800.00 |
| 2 Right-Of-Way (ROW) Mapping | | | | | | | | | | | | | \$ 24,034.00 | |
| 3 Construction Phase Services | | | | | | | | | | 0 | | \$ - | \$ - | \$ - |
| a Request for Information responses (10) | | | | 1 | 4 | 10 | 30 | | | 45 | | \$ 6,240.00 | \$ - | \$ 6,240.00 |
| b Review Contractor Submittals & Shop Drawings (5) | | | | | 2 | 4 | 8 | | | 14 | | \$ 1,970.00 | \$ - | \$ 1,970.00 |
| c Plan Revisions for Field Changes (20 sheets) | | | | 1 | 4 | 16 | 40 | 12 | | 73 | | \$ 9,830.00 | \$ - | \$ 9,830.00 |
| d Attend Meetings (7) | | | | | 8 | 28 | 42 | | | 78 | | \$ 10,930.00 | \$ - | \$ 10,930.00 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Project Total | | | 0 | 3 | 26 | 118 | 120 | 12 | 20 | 299 | 0 | \$ 36,690.00 | \$ 24,034.00 | \$ 60,724.00 |

| DIRECT EXPENSES: | Quantity | | Unit Cost | Cost | |
|---------------------|---------------|------------------|------------------|--------------------|------------|
| | Travel: | | | | |
| | Mileage | 50 miles/ trips: | 46 trips | \$0.500 per mile | \$1,150.00 |
| | Per diem | | 0 days | \$25.00 per day | \$0.00 |
| | Lodging | | 0 nights | \$100.00 per night | \$0.00 |
| | Copies: | | | | |
| | Reproduction | | 0 reports | \$45.00 per report | \$0.00 |
| | Reproduction | 10 sheets/set | 10 sets | \$0.15 per sheet | \$15.00 |
| | Media (mylar) | 0 sheets/set | 0 sets | \$1.00 per sheet | \$0.00 |
| Misc Expenses: | | | | | |
| Express delivery | | 6 each | \$20.00 per each | \$120.00 | |
| Research Materials | | | | | |
| TOTAL DIRECT COST: | | | | \$ 1,285 | |
| TOTAL PROJECT COST: | | | | | \$ 62,009 |

WILLIAMSON COUNTY
FOREST NORTH
INLAND GEODETICS, LLC

| SERVICE | 2 CREW | 3 CREW | 4 CREW | 1GPS | PM | RPLS | SEN TECH | TECH | LSLS | ADMIN | DIRECT | GPS REC.(\$15/Unit/Hour) | | VEHICLES(\$60/Unit/Day) | | ATV's (\$55/Unit/Day) | | INDIRECT | TOTAL |
|-----------------------------|----------|--------|--------|-------|---------|---------|-------------|-------|-------|-------|--------------|--------------------------|------------|-------------------------|-----------|-----------------------|-----------|----------|--------------|
| RATE / HOUR | \$150 | \$170 | \$190 | \$120 | \$140 | \$135 | \$102 | \$98 | \$150 | \$58 | | # of Units | # of Hours | # of Units | # of Days | # of Units | # of Days | | |
| | | | | | | | | | | | \$ - | | | | | | | \$ - | \$ - |
| ADMIN/MOB | | | | | 8 HRS | | 4 HRS | | | 4 HRS | \$ 1,760.00 | | | | | | | \$ - | \$ 1,760.00 |
| | | | | | | | | | | | \$ - | | | | | | | \$ - | \$ - |
| FILE RESTORATION AND REVIEW | | | | | | 4 HRS | 4 HRS | | | | \$ 948.00 | | | | | | | \$ - | \$ 948.00 |
| SEGMENT PACKAGE PREP | | | | | 2 HRS | 4 HRS | 16 HRS | | | | \$ 2,452.00 | | | | | | | \$ - | \$ 2,452.00 |
| | | | | | | | | | | | \$ - | | | | | | | \$ - | \$ - |
| FIELD SURVEY | | | | | | | | | | | \$ - | | | | | | | \$ - | \$ - |
| SHADY OAKS | 12 HRS | | | | 2 HRS | | 1 HRS | | | | \$ 2,182.00 | | | | | | | \$ - | \$ 2,182.00 |
| WOODVALE | 24 HRS | | | | 4 HRS | | 2 HRS | | | | \$ 4,364.00 | | | | | | | \$ - | \$ 4,364.00 |
| NEWBERRY | 16 HRS | | | | 2 HRS | | 1 HRS | | | | \$ 2,782.00 | | | | | | | \$ - | \$ 2,782.00 |
| SHASTA | 32 HRS | | | | 2 HRS | | 1 HRS | | | | \$ 5,182.00 | | | | | | | \$ - | \$ 5,182.00 |
| NORCHESTER | 8 HRS | | | | | | | | | | \$ 1,200.00 | | | | | | | \$ - | \$ 1,200.00 |
| SHERBOURNE | 8 HRS | | | | 2 HRS | | 1 HRS | | | | \$ 1,582.00 | | | | | | | \$ - | \$ 1,582.00 |
| BRAES VALLEY | 8 HRS | | | | 2 HRS | | 1 HRS | | | | \$ 1,582.00 | | | | | | | \$ - | \$ 1,582.00 |
| | 108 HRS | 0 HRS | 0 HRS | 0 HRS | 24 HRS | 8 HRS | 31 HRS | 0 HRS | 0 HRS | 4 HRS | \$ 24,034.00 | | 0 HRS | | 0 DAYS | | 0 DAYS | \$ - | \$ 24,034.00 |
| SUB-TOTAL | 108 HRS | 0 HRS | 0 HRS | 0 HRS | 24 HRS | 8 HRS | 31 HRS | 0 HRS | 0 HRS | 4 HRS | \$ 24,034.00 | TOTAL | 0 HRS | TOTAL | 0 DAYS | TOTAL | 0 DAYS | \$ - | \$ 24,034.00 |
| REIMBURSEABLE ITEMS | | | | | | | | | | | | | | | | | | | \$ - |
| REIMBURSEABLE SERVICES | | | | | | | | | | | | | | | | | | | \$ - |
| ESTIMATED FEE | \$16,200 | \$0 | \$0 | \$0 | \$3,360 | \$1,080 | \$3,162 | \$0 | \$0 | \$232 | | | \$0 | | \$0 | | \$0 | | \$ 24,034.00 |