

WORK AUTHORIZATION

WORK AUTHORIZATION NO. 1 PROJECT: CREEKSIDE DRIVE AT PLUM CREEK

This Work Authorization is made pursuant to the terms and conditions of the Caldwell County Contract for Engineering Services, being dated _____, 2025 and entered into by and between Caldwell County, Texas, a political subdivision of the State of Texas, (the "County") and Pape-Dawson Consulting Engineers, LLC (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 **\$329,935.00**.

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 September 30, 2026. 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. County believes it has sufficient funds currently available and authorized for expenditure to finance the costs of this Work Authorization. Engineer understands and agrees that County's payment of amounts under this Work Authorization is contingent on the County receiving appropriations or other expenditure authority sufficient to allow the County, in the exercise of reasonable administrative discretion, to continue to make payments under this Contract. It is further understood and agreed by Engineer that County shall have the right to terminate this Contract at the end of any County fiscal year if the governing body of County does not appropriate sufficient funds as determined by County's budget for the fiscal year in question. County may effect such termination by giving written notice of termination to Engineer.

Part 7. This Work Authorization is hereby accepted and acknowledged below.

ENGINEER:

Pape-Dawson Consulting Engineers, LLC

By: John Tyler
Signature

John Tyler, P.E., RAS

Printed Name

Managing Principal, Transportation

Title

11/24/2025

Date

COUNTY:

Caldwell County, Texas

By: _____
Signature

Hoppy Haden

Printed Name

County Judge

Title

_____ Date

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 - Fee Schedule

APPROVED
By Maria Castanon at 4:08 pm, Dec 01, 2025

ATTACHMENT A
SERVICES TO BE PROVIDED BY THE COUNTY
FOR CREEKSIDE DRIVE AT PLUM CREEK

In general, Caldwell County and its representatives to their best efforts will render services as follows:

1. Name, business address and phone number of County's project manager.
2. Assistance to the Engineer, as necessary, with obtaining data and information from other local, regional, State and Federal agencies required for this project.
3. Obtain Rights of Entry from landowners that are unwilling to grant access to the Engineer.
4. Provide available appropriate County data on file, plans and specifications that are deemed pertinent to the completion of the work required by the scope of services (including previous hydraulic studies, models, previous reports and studies, available existing traffic counts, and design year traffic projections).
5. Provide available criteria and full information as to the client's requirements for the project. Provide examples of acceptable format for the required deliverables.
6. Provide information on any meetings/discussions held with adjoining property owners that may impact the project.
7. Provide timely reviews and decisions necessary for the Engineer to maintain the project work schedule. Review recommendations offered by the Engineer, progress of work, and final acceptance of all documents.
8. Submittal of documentation and permits to regulatory agencies for review and comment, when specified.
9. Support project development efforts with stakeholders, coordinate meetings and interface with stakeholders, as needed.
10. Provide a summary of prior communications with impacted landowners, related to this project.
11. Post and maintain project information for public consumption on the County website.
12. Assist with Coordination between the Engineer and the County's other Consultants.

13. Negotiate with all utility companies for any agreements and/or relocations required.
14. Provide an agent as necessary to secure proposed ROW/easements and relocate/remove improvements on proposed ROW.
15. Provide construction observation and review contractor pay applications and progress.
16. Provide Engineer with Contractor submittals, Requests for Information (RFI's), shop drawings, and correspondence.
17. Review Engineer's progress, submittals, and plan changes.

ATTACHMENT B
SERVICES TO BE PROVIDED BY THE ENGINEER
FOR CREEKSIDE DRIVE AT PLUM CREEK (SCHEMATIC)

PROJECT DESCRIPTION

Project Type & Limits

Schematic – Bridge replacement at the low water crossing on Creekside drive and Plum Creek; limits of the project will be from 1000 ft west of the low water crossing to 800 ft east of the low water crossing.

Existing Facility

Existing Creekside drive consists of two 8 ft lanes with no shoulder and approximately 24 ft of ROW. The existing pavement type is gravel road with a drainage crossing under Creekside drive at the low water crossing.

Proposed Facility

The proposed improvements will include a bridge over Plum creek and widening Creekside drive to accommodate two 12 ft lanes with shoulders for additional safety improvements.

Design Criteria

The proposed design criteria for the project will be developed from TxDOT design criteria manuals in association with Caldwell County Development Ordinances for Roadway and Drainage.

1. PROJECT MANAGEMENT

- a. Shall designate one Licensed Professional Engineer (Texas) to be responsible for the project management, and all communications with the County and its representatives.
- b. MONTHLY PROGRESS REPORTS, INVOICES, AND BILLINGS ([10] months assumed):
 - Submit monthly progress status reports to the GEC. Progress reports will include: deliverable table, 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 the County's ProjectWise System.

- Prepare correspondence, invoices, and progress reports on a monthly basis in accordance with current County requirements.
- c. QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) PLAN:
- Prepare a project specific QA/QC plan and submit to the GEC within thirty (30) days of notice to proceed.
 - For each deliverable, provide evidence of their internal review and mark-up of that deliverable as preparation for submittal and in accordance with submitted project specific QA/QC plan.
 - Provide continuous QA/QC throughout the duration of the scheduled services included herein to appraise both technical and business performance and provide direction for project activities.
- d. PROJECT COORDINATION & ADMINISTRATION:
- Prepare and maintain routine project record keeping including records of meetings and minutes.
 - Correspondence and coordination will be handled through & with the concurrence of the GEC.
 - Manage Project activities (including documenting emails, phone and conference calls, maintain project files for the length of the project, meeting agendas, meeting minutes, and schedule meetings), direct Engineer's team/staff, coordinate and review sub-consultant work, correspond with the County and its representatives, and assist the County and its representatives in preparing responses to Project-related inquiries.
 - The Engineer shall utilize the County's document control system, ProjectWise, to assure the appropriate control of documentation and reporting. The Engineer shall maintain and upload complete and accurate records of design documents in County's File System, ProjectWise. This library will contain all pertinent Project documentation and will include, but is not limited to, copies of the following:
 - Agreements
 - Permits
 - Reports

- Design Submittals
 - Correspondence
 - Exhibits
 - Native Files
 - Meetings Minutes
 - Agendas
- All contract documents, including native files, shall be turned over to the County at each milestone and at the completion of the project or as requested. Documents shall be posted to the County's ProjectWise document control system.
- e. PROGRESS/COORDINATION MEETINGS ([20] biweekly meetings assumed, [5] external meetings assumed):
- Attend a kickoff meeting with the County and its representatives and stakeholders, as necessary to communicate development of the project and design issues.
 - Attend a biweekly meeting and coordination/progress meeting with the County and GEC, as necessary to communicate development of the project and design issues. Updates shall include activities completed, upcoming action items, activities required by next meeting, issues encountered, information or items required from other agencies/consultants, late activities, solutions for unresolved and/or anticipated problems with resolution timeframes, and any outstanding items needed to complete required deliverables.
 - Prepare agenda and sign-in sheets for external coordination/progress meetings.
 - Prepare meeting minutes for review via email within three (3) business days of the external coordination/progress meeting.
 - Conduct internal coordination meetings as required to advance the development of the project.

f. PROJECT SCHEDULE:

- Baseline Schedule – Submit a CPM Baseline Schedule in calendar day (CD) format to the GEC for approval, using Microsoft Project in both pdf and native formats within 14 calendar days of the Work Authorization execution. This schedule should detail all work activities, including those by the County affecting the critical path. It shall outline the execution strategy, critical path, milestones, deliverables, and for each activity, its predecessors, successors, start and end dates, and float. Changes to schedule activities, durations, and dates require County consent, except for adjustments due to approved supplements or County-sanctioned project duration changes.
- Progress Schedule – Submit an updated Progress Schedule with each significant milestone and/or deliverable identified by the County, detailing actual work completion percentages, and incorporating all approved supplements. If the schedule deviates from the baseline, a recovery schedule approved by the County is required.

g. DELIVERABLES:

- Monthly Invoices and Progress Reports
- Project Specific QA/QC Plan
- QA/QC Documentation with Deliverables
- Project Files
- Meeting Minutes, Sign-In Sheets, and Agendas
- Baseline and Progress Schedules

2. ROUTE AND DESIGN STUDIES

a. DATA COLLECTION:

- Perform record research and obtaining existing information, including but not limited to: as-built plans, construction plans, right of way maps, existing planimetric maps, traffic data, accident data, environmental reports, studies, future land use maps, existing channel and drainage easement data, floodplain data, floodplain, bridge inspection records, existing utilities, geotechnical reports, and drainage models and analyses. Obtain construction plans for projects within and adjoining the project limits and abutting TxDOT and

County Roads. Obtain drainage studies, reports, and mapping for the project area, including reports for developments affecting the drainage area.

- Conduct a field investigation of the proposed roadway alignment and the surrounding area to determine field conditions including photographic record of notable existing features. Pavement Condition Assessment should be conducted during the field investigation.
- Develop and maintain adjacent property ownership information (including owner's name, tenant name for leased property, mailing address, property address, property id number) spreadsheet to be used for disseminating project information.
- Review aerial photography and contours. Aerial photography and contours will be the basis for developing all constraints maps and route options.
- Obtain available existing traffic counts. Obtain traffic projections from the County and evaluate if the projections need adjusting.
- Review the data collected and organize the information.
- Perform a safety analysis utilizing State approved tools to ensure safety-driven decisions are taken into account during the project development and design process (Required for On-System and State or Federally funded projects).

b. DESIGN CRITERIA:

- Submit a Design Summary Report (DSR) per TxDOT Roadway Design Manual and typical sections.

c. CONSTRAINTS MAP ([1] preliminary alignments assumed):

- Develop evaluation criteria to assist in evaluating route alignment alternatives.
- Develop a constraints map and technical memorandum that includes environmental concerns, known constraints (structures, floodplain, karst features), aerial photography, contour information, utility information, based on research of public databases and sources and details screening measures and decision practices for eliminating non-viable corridors.
- Evaluate traffic growth patterns and generate traffic projections for the ultimate roadway.

- Develop one horizontal and two vertical alignments and preliminary costs for use in soliciting input during coordination meetings with stakeholders.
- Refine preliminary alignment based on stakeholder input, design criteria, existing structures, potential displacements, right of way limits and requirements, known developments, FEMA floodplain areas, existing and proposed drainage structures, and environmental constraints.

d. DELIVERABLES:

- Results of Records Research
- Property Owner Spreadsheets
- Design Summary Report and Typical Sections
- Constraints Map with Preliminary Alignments, and right-of-way; and cost estimates and Technical Memorandums
- Constraints Map with Refined Alignment, and right-of-way; and cost estimate and Technical Memorandum Recommendation

3. PUBLIC INVOLVEMENT SUPPORT

a. STAKEHOLDER COORDINATION SUPPORT ([1] meetings assumed):

- Support GEC in coordinate with affected local agencies, County's consultants, and affected property owners.
- Prepare overall exhibits and maps of the project limits for stakeholder coordination meetings.

b. PROPERTY OWNER MEETING SUPPORT (up to [1] meetings assumed):

- Prepare overall exhibits and maps of the project limits for property owner meetings.
- Provide property owner exhibits identifying Parent tract (including area), Right-of-way acquisition (including parcel acquisition and remainder areas), and proposed improvements adjacent to the property as needed.
- One (1) person will attend meetings as requested to provide project technical support.

c. PUBLIC MEETING/OPEN HOUSE SUPPORT ([1] public meetings assumed):

- Provide project engineer to attend public open house meeting to provide technical support.

d. DELIVERABLES:

- Stakeholder Meeting Exhibits and Maps in pdf format
- Property Owner Meeting Exhibits and Maps in pdf format

4. RIGHT OF WAY (ROW) SUPPORT

a. ROW MAP:

- Research and compile deed/plat records, including subdivision plats and existing easements, and build a working map from recorded data.
- Calculate approximate search data to recover right of way monumentation and make initial pass to recover right of way monumentation.
- Prepare right of way strip map and list of impacted tracts.

b. PARCEL ACQUISITION DOCUMENTS (2 parcel documents assumed, 2 property staking assumed):

- Prepare parcel sketches and field note documents for right of way parcel and easement acquisition. Note any improvements requiring removal or relocation on parcel sketches.
- Set appropriate monumentation in accordance with County requirements. Prepare signed and sealed documents for right of way parcel and easement acquisition.

c. ROW STAKING (2 parcels assumed):

- Stake proposed right of way with suitable markers as requested on a parcel-by-parcel basis for the purposes of fence construction, utility installation, or property owner requests.

d. DELIVERABLES:

- ROW Strip Map and affected property owner list (drawing file, pdf)
- Final Parcel Acquisition Documents (pdf) (2 assumed)

5. SURVEYING

a. RIGHT OF ENTRY (2 letters assumed):

- Upon receiving approval from GEC, prepare and mail right of entry letters per the County's standard for the project team including geotechnical and environmental. Send a second follow up letter to non-responsive property owners.

b. FIELD SURVEYING:

- Survey the corridor area at approximately [100-foot sections] on either side of the proposed roadway centerline including identify existing landowners, deed recordation information, locate visible improvements and utilities including driveways, water wells, storage tanks, drainage structures (size, material, flowline elevations), edge of pavement/shoulder, physical centerline, guardrail, fences, signs, mailboxes, trees 12" inch diameter and greater, locate property boundaries sufficient to re-establish ROW.
- Establish horizontal and vertical control and set temporary benchmarks.

c. DELIVERABLES:

- Certified Mail Right of Entry Letters, Follow Up Letters, and Executed Right of Entry Documents.
- Mapping in 2-D and 3-D MicroStation Files (Surface)
- Surveyor Project Notebook (pdf)
- DTM of Proposed Corridor
- 11" x 17" Control Point Sheets for insertion into Engineering Plan Set

6. SCHEMATIC DEVELOPMENT

a. SCHEMATIC:

- Prepare preliminary schematic submittal per Caldwell County submittal requirements and selected design criteria including proposed cross sections, typical sections, roadway centerline, proposed drainage structures, direction of flow and number of travel lanes, intersecting streets, property boundaries and information, ROW and easement locations, preliminary pavement section,

driveway locations, horizontal alignment data, profile data, identification of known utilities, retaining walls, and bridge locations.

- Prepare final schematic submittal per Caldwell County submittal requirements and selected design criteria.

b. DELIVERABLES:

- Preliminary Schematic Submittal including cost estimate per submittal requirements.
- Final Schematic Submittal including cost estimate per submittal requirements.

7. DRAINAGE STUDY

a. HYDROLOGIC/HYDRAULIC MODELING ([1] major channel crossings, [0] cross drainage structures assumed):

- Verify existing hydrologic and hydraulic models and modify existing models (FEMA, drainage districts, river authorities, cities, etc.) if available, to define the drainage infrastructure required for the project. Detail the methodologies employed and recommendations. The analysis will include: preparation of a preliminary design of the right of way drainage system, cross drainage structures, right-of-way drainage, major channel crossings to reflect the existing and proposed conditions, recommended minimum pavement elevations based on cross drainage flood elevations, right of way requirements, identify potential needs for FEMA Coordination. HEC-RAS shall be utilized for all stream modeling. HY-8 will be utilized for all culverts. Atlas 14 impacts will be reviewed and incorporated.
- Develop existing channel cross sections based on data collection.
- Exhibits and analysis will be prepared in the GIS environment to the extent practical.
- Coordinate with the local Floodplain Administrator as necessary throughout the project.

b. IMPACT AND MITIGATION ANALYSIS:

- Prepare an impact analysis to determine increases in peak flow rates for the 100-year storm including: existing and proposed peak flow rates, mitigation analysis, conceptual detention basin layouts, design of control structures,

routing of storm hydrographs through basins, calculate the volume of fill to be placed in the 100-year floodplain, and recommend locations for compensatory storage.

c. DELIVERABLES:

- Preliminary & Final Drainage Report.

8. ENVIRONMENTAL SERVICES

a. DATA COLLECTION & FIELD RECONNAISSANCE:

- Obtain and update periodically publicly available information including but not limited to: locations of public buildings (schools, churches, parks, emergency responders), aerial photography, National Wetland Inventory Maps, County Soil Survey Maps, TCEQ & EPA Hazardous Materials Database Information, FEMA Floodplain Information, vegetation information, and environmental information from the appropriate local, State, or Federal agencies, including for state and federally-listed species, and Edwards Aquifer Information.
- Conduct a regulatory records review to identify listed hazardous waste generators, treatment, storage and disposal facilities; solid waste landfills, unauthorized sites; documented spills; oil and gas exploration and production sites; and underground storage tank sites within the proposed site location. The review will also identify any other environmental risks along the project corridor.
- Conduct field reconnaissance to visually inspect the project site for additional risks and field verify any environmental risks identified by the regulatory records review.

b. COUNTY DUE DILIGENCE:

The Consultant should conduct the investigations and prepare the technical reports, per the Caldwell County Environmental Protocol, for environmental compliance and summarize the results of those studies in the due diligence report. Technical reports shall be included as appendices to the due diligence report.

c. COUNTY DUE DILIGENCE DELIVERABLES:

- Draft & Final Environmental Due Diligence Report
- Draft & Final Cultural and Historic Resources Background Review
- Draft & Final Jurisdictional Waters Determination/Delineation

- Draft & Final Threatened and Endangered (T&E) Species Assessment
- Draft & Final T&E Presence/Absence Surveys
- Draft & Final Phase I Environmental Site Assessment

9. PERMITS – OMIT

10. DELIVERABLES

a. DOCUMENTS:

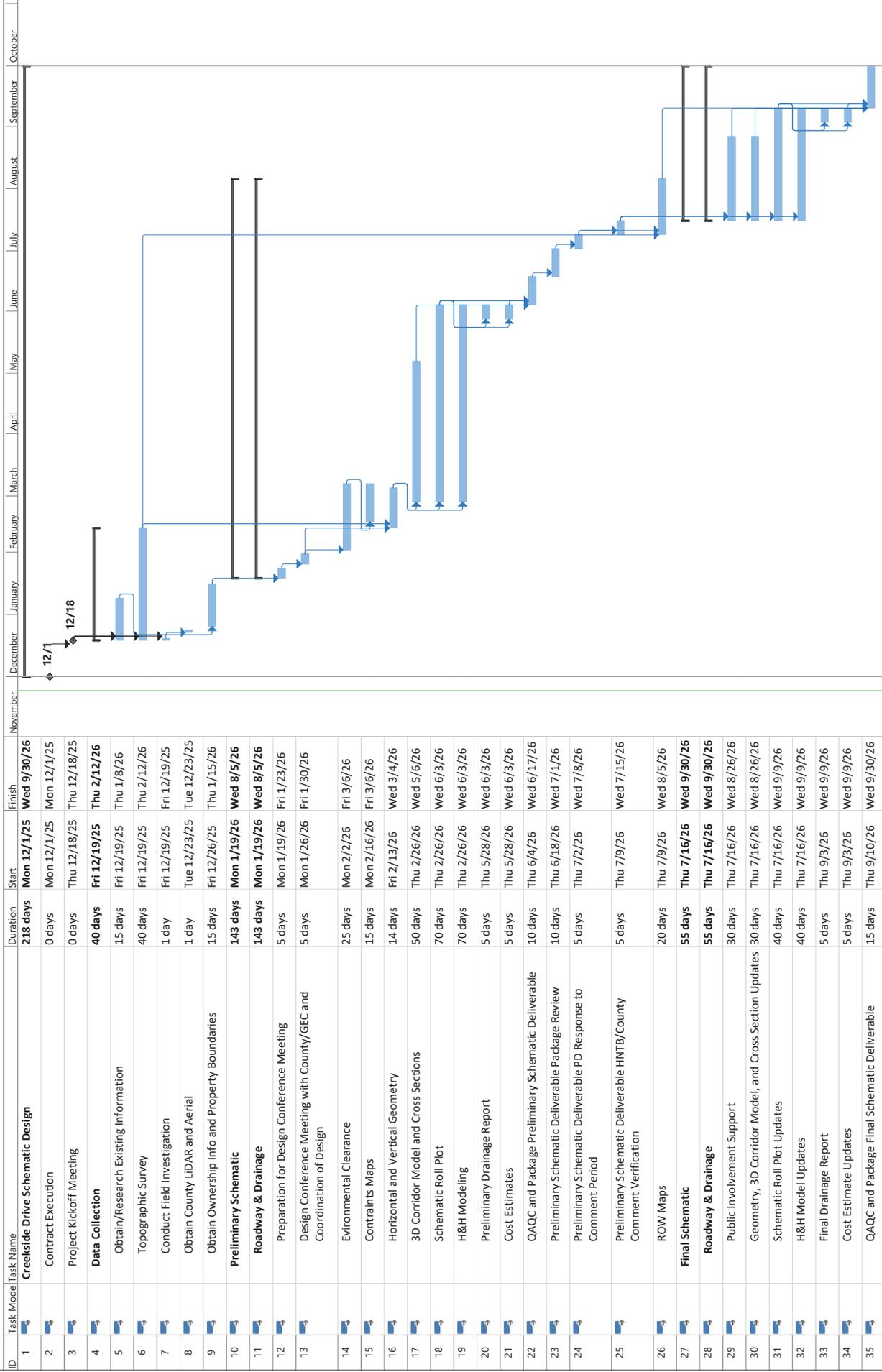
- All contract documents, including hard copies and electronic files, shall be turned over to the County at each milestone and at the completion of the project. Documents shall be posted to the County’s project management database as requested.

11. EXCLUSIONS

a. ENVIRONMENTAL SERVICES

- This scope and fee considers a cultural resource background review for the project area. If additional cultural resource permitting, survey or investigation is determined to be necessary, such services will be performed under a supplemental work authorization.
- USACE Section 404 permitting is not included in this scope and fee. Necessary USACE permitting will be determined after the completion of the Jurisdictional Waters Determination and once project impacts are defined. Preparation of USACE permitting materials will be performed under a supplemental work authorization.
- This scope and fee does not include an Endangered Species Act Compliance Letter / “Take” Assessment to support FEMA approval. If necessary, this task can be performed under a supplemental work authorization.
- Threatened and endangered species presence/absence surveys are anticipated for federally-listed mussel species. This scope and fee includes site reconnaissance to determine potential for mussel habitat to exist within the project area. If necessary, the subsequent preparation of an Aquatic Resource Relocation Plan and performance of mussel surveys will be included under a supplemental work authorization.
- Designer services during construction, will be under a separate Work Authorization.

Attachment C - Creekside Dr. Design Schedule



Project: Creekside Dr Design Schedule
Date: Mon 11/24/25

Legend:

- Task: Blue bar
- Milestone: Diamond
- Summary: Bracket
- Project Summary: Light blue bar
- Inactive Task: Dotted line
- Inactive Milestone: Diamond with border
- Inactive Summary: Bracket with border
- Manual Task: Light blue bar with border
- Duration-only: Light blue bar with border
- Manual Summary Rollup: Light blue bar with border
- Manual Summary: Light blue bar with border
- Start-only: Light blue bar with arrow
- Finish-only: Light blue bar with arrow
- External Task: Light blue bar with border
- External Milestone: Diamond with border
- Deadline: Green arrow
- Progress: Blue bar with gradient
- Manual Progress: Light blue bar with border

Description	Prime Provider: Pape-Dawson Consulting Engineers, LLC	Total
1. PROJECT MANAGEMENT	\$ 28,740.00	\$ 28,740.00
2. ROUTE AND DESIGN STUDIES	\$ 30,540.00	\$ 30,540.00
3. PUBLIC INVOLVEMENT SUPPORT	\$ 6,560.00	\$ 6,560.00
4. RIGHT OF WAY (ROW) SUPPORT	\$ 22,425.00	\$ 22,425.00
5. SURVEYING	\$ 29,165.00	\$ 29,165.00
6. SCHEMATIC DEVELOPMENT	\$ 112,540.00	\$ 112,540.00
7. DRAINAGE STUDY	\$ 46,820.00	\$ 46,820.00
8. ENVIRONMENTAL SERVICES	\$ 46,125.00	\$ 46,125.00
9. PERMITS	\$ -	\$ -
Unit Cost	\$ -	\$ -
Other Direct Expenses (ODE)	\$ 7,020.00	\$ 7,020.00

Attachment D
Fee Schedule
Caldwell County
Creekside Drive at Plum Creek

Pape-Dawson Consulting Engineers, LLC.
Project: Creekside Drive at Plum Creek
Provider: Pape-Dawson Consulting Engineers, LLC

TASK DESCRIPTION	\$275.00	\$230.00	\$240.00	\$200.00	\$180.00	\$150.00	\$130.00	\$135.00	\$250.00	\$160.00	\$170.00	TOTAL LABOR HOURS	TOTAL LABOR COSTS
	Associate Vice President	Senior Project Engineer	Project Manager	Project Engineer	Engineer IV	Engineer II	Technician	Admin Assistant	Sr. Environmental Scientist / Archaeologist / Geologist	Project Environmental Scientist / Archaeologist / Geologist	Staff Environmental Scientist / Archaeologist / Geologist		
1. Project Management (10 months assumed)													
A. Property Access, Easements and Eminent Domain													
B. Prepare correspondence and invoices to GEC			4					4				8	\$ 1,500.00
C. Quality Assurance and Quality Control Plan			4					4				8	\$ 1,500.00
D. QA/QC plan		6										12	\$ 2,820.00
E. QA/QC redlines of deliverables		8										26	\$ 5,680.00
F. Other QA/QC		2										6	\$ 1,340.00
G. Project Coordination & Administration			6									6	\$ 1,440.00
H. Manage Project activities - coordinate with staff, sub-consultants, GEC, and County (emails, phone and conference calls, maintain project files)			4									4	\$ 960.00
I. Maintain and upload project documentation into county's document control system													
J. Progress Coordination Meetings (20 biweekly meetings, 5 external meetings)			10									20	\$ 4,400.00
K. 2x Attend and base for meetings			4									8	\$ 1,760.00
L. 2x Attend and base for external coordination/progress meetings			2									4	\$ 880.00
M. Prepare for and attend internal coordination meetings			4									8	\$ 1,760.00
N. Prepare for and attend design review meetings			4									8	\$ 1,760.00
O. Project Schedule			6					2				8	\$ 1,710.00
P. Baseline Schedule - CPM Baseline Schedule			4					2				6	\$ 1,230.00
2. Route and Design Studies													
A. Data Collection			4			4						12	\$ 2,860.00
B. Perform record research to obtain any additional existing information													
C. Conduct field investigation of the proposed roadway alignment and the surrounding area to determine field conditions including photographic record of notable existing features.			4			4						12	\$ 2,860.00
D. Review and prepare adjacent property owner site information spreadsheet.			2				4					10	\$ 1,800.00
E. Obtain available existing traffic counts. Obtain traffic projections from the County and evaluate if the projections need adjusting.			1			4						9	\$ 1,640.00
F. Review and organize collected data.						6						12	\$ 2,100.00
G. Perform a safety analysis utilizing State approved tools.			1			4						9	\$ 1,640.00
H. Design Criteria													
I. Schedule and attend a Design Conference meeting with the County/GEC			1			1						2	\$ 440.00
J. Update Design Summary Report (DSR)			1			4						9	\$ 1,640.00
K. Constraints Map (1 preliminary alignment assumed)			2			8						18	\$ 3,280.00
L. Develop evaluation criteria to assist in route alignment alternatives.			2			6						18	\$ 3,100.00
M. Develop a constraints map and technical memo that includes environmental concerns, known constraints, geotechnical, roadway, drainage and utility information.			1			8						19	\$ 3,160.00
N. Prepare preliminary alignments and preliminary costs.			2			8						18	\$ 3,280.00
O. Refine preliminary alignments.			1			6						13	\$ 2,840.00
3. Public Involvement Support													
A. Stakeholder Coordination (1 meeting assumed)			4									4	\$ 960.00
B. Coordinate with affected local agencies, County's consultants, and affected property owners.													
C. Prepare agendas, sign in sheets, meeting minutes, discussion topics, presentations, overall exhibits, and maps.			2				4					6	\$ 920.00
D. Property Owner Meeting Support (up to 1 meeting assumed) (1 person attending)													
E. Prepare agendas, sign in sheets, meeting minutes, discussion topics, presentations, overall exhibits, and maps.			2			2						6	\$ 1,040.00
F. Provide property owner exhibits identifying Parent tract (including area), Right-of-way acquisition (including parcel acquisition and remainder areas), and proposed improvements adjacent to the Right-of-way.												4	\$ 520.00
G. Prepare Meeting House (1 public meeting assumed)			1				4					9	\$ 1,560.00
H. Prepare handout materials, presentation, and exhibits			1				4					9	\$ 1,560.00
I. Prepare public meeting summary and responses to any comments or questions provided.													
4. Right Of Way (ROW) Support													
A. Condemnation Hearing Exhibits (1 parcel hearing assumed)			1									5	\$ 760.00
B. Prepare preliminary and final condemnation hearing exhibits for acquisition parcels													
C. Condemnation Hearing (1 parcel hearing assumed)			1									1	\$ 240.00
D. Attend meetings with the attorney to prepare for the hearings.												1	\$ 240.00
E. Attend condemnation hearings in-person and testify as an expert witness on the Project												1	\$ 240.00

Attachment D
Fee Schedule
Caldwell County
Creekside Drive at Plum Creek

Pape-Dawson Consulting Engineers, LLC.
Project: Creekside Drive at Plum Creek

TASK DESCRIPTION	\$375.00	\$230.00	\$240.00	\$200.00	\$180.00	\$150.00	\$130.00	\$135.00	\$250.00	\$160.00	\$120.00	TOTAL LABOR HOURS	TOTAL LABOR COSTS
	Associate Vice President	Senior Project Engineer	Project Manager	Project Engineer	Engineer IV	Engineer II	Technician	Admin Assistant	Sr. Environmental Scientist / Archaeologist / Geologist	Project Environmental Scientist / Archaeologist / Geologist	Staff Environmental Scientist / Archaeologist / Geologist		
6. Schematic Development													
A. Schematic													
1. Prepare preliminary schematic submittal per Caldwell County submittal requirements and selected design criteria													
i. Cross Sections			2	8	16	16	24					66	\$ 10,480.00
ii. Typical Sections			2	6	6	6	10					30	\$ 4,950.00
iii. Preliminary Schematic 3D Model			2	20	40	40	40					142	\$ 29,700.00
iv. Preliminary Schematic Roll Plot			2	6	8	8	8					32	\$ 5,960.00
2. Prepare final schematic submittal per Caldwell County submittal requirements and selected design criteria													
i. Cross Sections			1	4	10	8	16					39	\$ 6,120.00
ii. Typical Sections			1	2	4	4	6					17	\$ 2,740.00
iii. Final Schematic 3D Model			2	20	20	40	40					82	\$ 14,080.00
iv. Final Schematic Roll Plot			2	10	20	20	40					92	\$ 14,280.00
v. Cost Estimates			1	4	4	4	4					17	\$ 2,880.00
7. Drainage Study													
A. Hydrograph/Hydraulic Modeling (1 major channel crossing assumed)													
i. Prepare hydrologic and hydraulic models													
ii. Develop Hydrologic Area Impacts			1	2	2	2	2					5	\$ 840.00
iii. Develop Drainage Area Drainage Area Maps			2	8	16	16	26					26	\$ 4,860.00
iv. Perform Hydrologic Analysis			2	8	20	20	30					30	\$ 5,880.00
v. Perform Hydraulic Analysis using HEC-RAS			4	24	40	40	68					68	\$ 11,760.00
vi. FEMA Coordination			4	8	16	16	16					12	\$ 2,560.00
vii. Culvert Plan & Profile Layouts			4	8	16	16	16					12	\$ 2,560.00
viii. Preliminary and Final Drainage Report			4	20	30	30	44					44	\$ 7,040.00
ix. Prepare Drainage Cost Estimate			1	4	8	8	8					13	\$ 2,240.00
x. Develop existing channel cross sections based on data collection.			2	4	6	6	12					12	\$ 2,180.00
8. Environmental Services													
A. County Due Diligence													
1. Conduct investigations and prepare technical reports per the Caldwell County Environmental Permitting Manual													
i. Draft & Final Environmental Due Diligence Report			8	2	2	2	2					44	\$ 7,880.00
ii. Draft Report			2	2	2	2	2					10	\$ 2,140.00
iii. Final Report / Addressing GEC Comments			2	2	2	2	2					10	\$ 2,140.00
iv. Draft & Final Cultural and Historic Resources Background Review			2	2	2	2	2					10	\$ 2,140.00
v. Draft Report			2	2	2	2	2					10	\$ 2,140.00
vi. Final Report / Addressing GEC Comments			2	2	2	2	2					10	\$ 2,140.00
vii. Draft & Final Jurisdictional Waters Determination/Delineation			4	12	12	12	12					52	\$ 9,315.00
viii. Draft Report			2	2	2	2	2					9	\$ 2,005.00
ix. Final Report / Addressing GEC Comments			2	2	2	2	2					9	\$ 2,005.00
x. Draft & Final Threatened and Endangered (T&E) Species Assessment			2	4	4	4	4					27	\$ 4,645.00
xi. Draft Report			2	2	2	2	2					9	\$ 2,005.00
xii. Final Report / Addressing GEC Comments			2	2	2	2	2					9	\$ 2,005.00
13. Missals, Reconciliation (TWPD) EAST Atlantic Resources Coordination			2	4	4	4	4					19	\$ 3,765.00
14. Draft & Final Phase I Environmental Site Assessment			4	4	4	4	4					19	\$ 3,765.00
15. Draft Report			12	2	2	2	2					31	\$ 5,885.00
16. Final Report / Addressing GEC Comments			2	2	2	2	2					10	\$ 2,140.00
HOURS SUB-TOTALS	22	16	184	323	412	412	188	33	4	83	78	1551	\$ 272,565.00
TOTAL LABOR COSTS	\$9,250.00	\$3,680.00	\$46,560.00	\$64,600.00	\$33,840.00	\$81,800.00	\$25,740.00	\$4,455.00	\$1,000.00	\$13,280.00	\$9,360.00		\$ 272,565.00
% DISTRIBUTION OF STAFFING	1.4%	1.0%	12.5%	20.8%	12.1%	26.6%	12.8%	2.1%	0.3%	5.4%	5.0%	100.0%	

SUMMARY	Associate Vice President	Senior Project Engineer	Project Manager	Project Engineer	Engineer IV	Engineer II	Technician	Admin Assistant	Environmental Planner - Senior	Environmental Scientist III	Environmental Scientist III	TOTAL LABOR HOURS	TOTAL LABOR COSTS
1. PROJECT MANAGEMENT		16	66	38			12					132	\$ 28,740.00
2. ROUTE AND DESIGN STUDIES			22	69		66	12					169	\$ 30,540.00
3. PUBLIC INVOLVEMENT SUPPORT			8	10		2	18					38	\$ 6,560.00
4. RIGHT OF WAY (ROW) SUPPORT			3				4					7	\$ 1,240.00
5. SURVEYING													
6. SCHEMATIC DEVELOPMENT			19	120	188	206	148					681	\$ 112,540.00
7. DRAINAGE STUDY			24	86		138	16					272	\$ 46,820.00
8. ENVIRONMENTAL SERVICES			52				13		4	83		252	\$ 46,725.00
9. PERMITS													
10. DELIVERABLES			16	263	188	142	98	32	4	63	78	1551	\$ 272,565.00
HOURS SUB-TOTALS	22	16	184	323	412	412	188	33	4	83	78	1551	\$ 272,565.00
TOTAL LABOR COSTS	\$9,250.00	\$3,680.00	\$46,560.00	\$64,600.00	\$33,840.00	\$81,800.00	\$25,740.00	\$4,455.00	\$1,000.00	\$13,280.00	\$9,360.00		\$ 272,565.00
% DISTRIBUTION OF STAFFING	1.4%	1.0%	12.5%	20.8%	12.1%	26.6%	12.8%	2.1%	0.3%	5.4%	5.0%	100.0%	

Provider: Pape-Dawson Consulting Engineers, LLC

TASK DESCRIPTION	\$285.00 Survey Department Manager	\$270.00 Survey Project Manager	\$190.00 Senior Survey Tech	\$155.00 Survey Tech	\$225.00 2-Man Survey Crew	Total Hours	Total Cost
4. Right Of Way (ROW) Support							
A. ROW Map							
1. Research and compile deed/plat records and build a working map from recorded data.	1	2	8	1		12	\$ 2,500.00
2. Calculate approximate search data to recover right of way monumentation and make initial pass to recover right of way monumentation.		1	4		10	15	\$ 3,280.00
3. Prepare right of way strip map and list of impacted tracts. Boundary Resolution.		8	8			16	\$ 3,680.00
B. Parcel Acquisition Documents (2 parcel documents, assumed)(2 stakings assumed)							
1. Prepare parcel sketches and field note documentation for right of way parcel and easement acquisition.	1	4	20			25	\$ 5,165.00
2. Set appropriate monumentation in accordance with County requirements.		1	4		10	15	\$ 3,280.00
C. ROW Staking (2 parcels assumed)							
1. Stake proposed right of way with suitable markers as requested	1	1	4		10	15	\$ 3,280.00
5. Surveying							
A. Right of entry (2 letters assumed)							
1. Prepare and mail right of entry letters per County standards.		2	10			12	\$ 2,440.00
B. Field Surveying							
1. Survey the corridor area at approximately 100-foot sections on either side of the proposed roadway centerline.	1	5	37		34	77	\$ 16,315.00
2. Establish horizontal and vertical control and set temporary benchmarks.		2	6		10	18	\$ 3,930.00
3. Prepare 11"x17" Control Point Sheets		7	12	1		15	\$ 2,975.00
4. Surveyor Project Notebook	1	7	7		74	15	\$ 3,505.00
Prime HOURS SUB-TOTALS	4	35	120	2	74	235	
Prime TOTAL LABOR COSTS	\$1,140.00	\$9,450.00	\$22,800.00	\$310.00	\$16,650.00		\$50,350.00
Prime % DISTRIBUTION OF STAFF HOURS	1.7%	14.9%	51.1%	0.9%	31.5%	100.0%	

SUMMARY	Survey Department Manager	Survey Project Manager	Senior Survey Tech	Survey Tech	2-Man Survey Crew	Total Hours	Total Cost
4. RIGHT OF WAY (ROW) SUPPORT	2	17	48	1	30	98	\$ 21,185.00
5. SURVEYING	2	18	72	1	44	137	\$ 29,165.00
HOURS SUB-TOTALS	4	35	120	2	74	235	
TOTAL LABOR COSTS	\$1,140.00	\$9,450.00	\$22,800.00	\$310.00	\$16,650.00		\$ 50,350.00
% DISTRIBUTION OF STAFFING	1.7%	14.9%	51.1%	0.9%	31.5%	100%	

Provider: Pape-Dawson Consulting Engineers, LLC

OTHER DIRECT EXPENSES					
RATES SHOWN APPLY TO PRIME PROVIDER AND ALL SUBPROVIDERS					
SERVICES TO BE PROVIDED	UNIT	RATE	QTY	TOTAL COST	
Travel					
Mileage	mile	\$ 0.700	1000	\$	700.00
Lodging/Hotel - Taxes and Fees	day/person	\$ 45.00	20	\$	900.00
Lodging/Hotel (Taxes/fees not included)	day/person	\$ 110.00	20	\$	2,200.00
Meals (Excluding alcohol & tips) (Overnight stay required)	day/person	\$ 63.00	20	\$	1,260.00
Deed Copies	per sheet	\$ 2.00	30	\$	60.00
Title Reports	each	\$ 800.00	2	\$	1,600.00
Miscellaneous					
Type II ROW/Control Monument - Excavated/Drilled, rocks, rocky soil, 2-4 inch depth (includes equipment, materials, & rentals). Marker supplied by Client.	each	\$ 100.00	3	\$	300.00
TOTAL OTHER DIRECT EXPENSES					\$ 7,020.00