



AGREEMENT  
BETWEEN OWNER AND ENGINEER  
FOR  
PROFESSIONAL SERVICES

Agenda Item # 16  
Date 9/8/21

THIS IS AN AGREEMENT effective as of August 26, 2021 ("Effective Date") between Dodge County ("Owner") and JEO Consulting Group, Inc. ("Engineer").

Owner's project, of which Engineer's services under this Agreement are a part, is generally identified as follows:

Rawhide Creek WFPO Watershed Plan – Environmental Assessment ("Project").

JEO Project Number: 200881.00

Owner and Engineer further agree as follows:

**ARTICLE 1 - SERVICES OF ENGINEER**

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**1.01 Scope**

- A. Engineer shall provide, or cause to be provided, the services set forth herein and in Exhibit A.

**ARTICLE 2 - OWNER'S RESPONSIBILITIES**

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**2.01 Owner Responsibilities**

- A. Owner responsibilities are outlined in Section 3 of Exhibit B.

**ARTICLE 3 - COMPENSATION**

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**3.01 Compensation**

- A. Owner shall pay Engineer as set forth in Exhibit A and per the terms in Exhibit B.
- B. The fixed fee for the Project is: \$669,300.00
- C. The Standard Hourly Rates Schedule shall be adjusted annually (as of approximately January 1st) to reflect equitable changes in the compensation payable to Engineer. The current hourly rate schedule can be provided upon request.

ARTICLE 4 - EXHIBITS AND SPECIAL PROVISIONS

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4.01 Exhibits

Exhibit A – Scope of Services  
Exhibit B – General Conditions

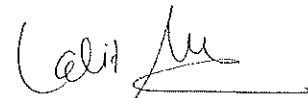
4.02 Total Agreement

- A. This Agreement (consisting of pages 1 to 2 inclusive, together with the Exhibits identified as included above) constitutes the entire agreement between Owner and Engineer and supersedes all prior written or oral understandings. This Agreement may only be amended, supplemented, modified, or canceled by a duly executed written instrument.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement.

Owner: Dodge County, NE

Engineer: JEO Consulting Group, Inc.



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By:

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By: Lalit Jha, PE, D.WRE, CFM

Title:

Title: Vice President Water Resources

Date Signed: \_\_\_\_\_

Date Signed: August 26, 2021

Address for giving notices:

Address for giving notices:

Dodge County

JEO Consulting Group, Inc.

435 N Park STE 101B

1937 N Chestnut Street

Fremont, NE 68025

Wahoo, NE 68066

## JEO CONSULTING GROUP INC ■ JEO ARCHITECTURE INC

**1. SCOPE OF SERVICES:** JEO Consulting Group, Inc. (JEO) shall perform the services described in Exhibit A. JEO shall invoice the owner for these services at the fee stated in Exhibit A.

**2. ADDITIONAL SERVICES:** JEO can perform work beyond the scope of services, as additional services, for a negotiated fee or at fee schedule rates.

**3. OWNER RESPONSIBILITIES:** The owner shall provide all criteria and full information as to the owner's requirements for the project; designate and identify in writing a person to act with authority on the owner's behalf in respect to all aspects of the project; examine and respond promptly to JEO's submissions; and give prompt written notice to JEO whenever the owner observes or otherwise becomes aware of any defect in work.

Unless otherwise agreed, the owner shall furnish JEO with right-of-access to the site in order to conduct the scope of services. Unless otherwise agreed, the owner shall also secure all necessary permits, approvals, licenses, consents, and property descriptions necessary to the performance of the services hereunder. While JEO shall take reasonable precautions to minimize damage to the property, it is understood by the owner that in the normal course of work some damage may occur, the restoration of which is not a part of this agreement.

**4. TIMES FOR RENDERING SERVICES:** JEO's services and compensation under this agreement have been agreed to in anticipation of the orderly and continuous progress of the project through completion. Unless specific periods of time or specific dates for providing services are specified in the scope of services, JEO's obligation to render services hereunder shall be for a period which may reasonably be required for the completion of said services.

If specific periods of time for rendering services are set forth or specific dates by which services are to be completed are provided, and if such periods of time or date are changed through no fault of JEO, the rates and amounts of compensation provided for herein shall be subject to equitable adjustment. If the owner has requested changes in the scope, extent, or character of the project, the time of performance of JEO's services shall be adjusted equitably.

**5. INVOICES:** JEO shall submit invoices to the owner monthly for services provided to date and a final bill upon completion of services. Invoices are due and payable within 30 days of receipt. Invoices are considered past due after 30 days. Owner agrees to pay a finance charge on past due invoices at the rate of 1.0% per month, or the maximum rate of interest permitted by law.

If the owner fails to make any payment due to JEO for services and expenses within 30 days after receipt of JEO's statement, JEO may, after giving 7 days' written notice to the owner, suspend services to the owner under this agreement until JEO has been paid in full all amounts due for services, expenses, and charges.

**6. STANDARD OF CARE:** The standard of care for all services performed or furnished by JEO under the agreement shall be the care and skill ordinarily used by members of JEO's profession practicing under similar circumstances at the same time and in the

same locality. JEO makes no warranties, express or implied, under this agreement or otherwise, in connection with JEO's services.

JEO shall be responsible for the technical accuracy of its services and documents resulting therefrom, and the owner shall not be responsible for discovering deficiencies therein. JEO shall correct such deficiencies without additional compensation except to the extent such action is directly attributable to deficiencies in owner furnished information.

**7. REUSE OF DOCUMENTS:** Reuse of any materials (including in part plans, specifications, drawings, reports, designs, computations, computer programs, data, estimates, surveys, other work items, etc.) by the owner on a future extension of this project, or any other project without JEO's written authorization shall be at the owner's risk and the owner agrees to indemnify and hold harmless JEO from all claims, damages, and expenses including attorney's fees arising out of such unauthorized use.

**8. ELECTRONIC FILES:** Copies of Documents that may be relied upon by the owner are limited to the printed copies (also known as hard copies) that are signed or sealed by JEO. Files in electronic media format of text, data, graphics, or of other types that are furnished by JEO to the owner are only for convenience of the owner. Any conclusion or information obtained or derived from such electronic files shall be at the user's sole risk.

a. Because data stored in electronic media format can deteriorate or be modified inadvertently or otherwise without authorization of the data's creator, the party receiving electronic files agrees that it shall perform acceptance tests or procedures within 30 days, after which the receiving party shall be deemed to have accepted the data thus transferred. Any errors detected within the 30 day acceptance period shall be corrected by the party delivering the electronic files. JEO shall not be responsible to maintain documents stored in electronic media format after acceptance by the owner.

b. When transferring documents in electronic media format, JEO makes no representations as to long term compatibility, usability, or readability of documents resulting from the use of software application packages, operating systems, or computer hardware differing from those used by JEO at the beginning of the project.

c. The owner may make and retain copies of documents for information and reference in connection with use on the project by the owner.

d. If there is a discrepancy between the electronic files and the hard copies, the hard copies govern.

e. Any verification or adaptation of the documents by JEO for extensions of the project or for any other project shall entitle JEO to further compensation at rates to be agreed upon by the owner and JEO.

**9. SUBCONSULTANTS:** JEO may employ consultants as JEO deems necessary to assist in the performance of the services. JEO shall not be required to employ any consultant unacceptable to JEO.

**10. INDEMNIFICATION:** To the fullest extent permitted by law, JEO and the owner shall indemnify and hold each other harmless and their respective officers, directors, partners, employees, and consultants from and against any and all claims, losses, damages, and expenses (including but not limited to all fees and charges of



**JEO CONSULTING GROUP INC ■ JEO ARCHITECTURE INC**

engineers, architects, attorneys, and other professionals, and all court or arbitration or other dispute resolution costs) to the extent such claims, losses, damages, or expenses are caused by the indemnifying parties' negligent acts, errors, or omissions. In the event claims, losses, damages, or expenses are caused by the joint or concurrent negligence of JEO and the owner, they shall be borne by each party in proportion to its negligence.

**11. INSURANCE:** JEO shall procure and maintain the following insurance during the performance of services under this agreement:

- a. Workers' Compensation: Statutory
- b. Employer's Liability
  - i. Each Accident: \$500,000
  - ii. Disease, Policy Limit: \$500,000
  - iii. Disease, Each Employee: \$500,000
- c. General Liability
  - i. Each Occurrence (Bodily Injury and Property Damage): \$1,000,000
  - ii. General Aggregate: \$2,000,000
- d. Auto Liability
  - i. Combined Single: \$1,000,000
- e. Excess or Umbrella Liability
  - i. Each Occurrence: \$1,000,000
  - ii. General Aggregate: \$1,000,000
- f. Professional Liability:
  - i. Each Occurrence: \$1,000,000
  - ii. General Aggregate: \$2,000,000
- g. All policies of property insurance shall contain provisions to the effect that JEO and JEO's consultants' interests are covered and that in the event of payment of any loss or damage the insurers shall have no rights of recovery against any of the insureds or additional insureds thereunder.
- h. The owner shall require the contractor to purchase and maintain general liability and other insurance as specified in the Contract Documents and to cause JEO and JEO's consultants to be listed as additional insured with respect to such liability and other insurance purchased and maintained by the contractor for the project.
- i. The owner shall reimburse JEO for any additional limits or coverages that the owner requires for the project.

**12. TERMINATION:** This agreement may be terminated by either party upon 7 days prior written notice. In the event of termination, JEO shall be compensated by owner for all services performed up to and including the termination date. The effective date of termination may be set up to thirty (30) days later than otherwise provided to allow JEO to demobilize personnel and equipment from the site, to complete tasks whose value would otherwise be lost, to prepare notes as to the status of completed and uncompleted tasks, and to assemble project materials in orderly files.

**13. GOVERNING LAW:** This agreement is to be governed by the law of the state in which the project is located.

**14. SUCCESSORS, ASSIGNS, AND BENEFICIARIES:** The owner and JEO each is hereby bound and the partners, successors, executors, administrators and legal representatives of the owner and JEO are hereby bound to the other party to this agreement and to the partners, successors, executors, administrators and legal representatives (and said assigns) of such other party, with respect to all covenants, agreements and obligations of this agreement.

- a. Neither the owner nor JEO may assign, sublet, or transfer any rights under or interest (including, but without limitation, monies that are due or may become due) in this agreement without the written consent of the other, except to the extent that any assignment, subletting, or transfer is mandated or restricted by law. Unless specifically stated to the contrary in any written consent to an assignment, no assignment shall release or discharge the assignor from any duty or responsibility under this agreement.
- b. Unless expressly provided otherwise in this agreement: Nothing in this agreement shall be construed to create, impose, or give rise to any duty owed by the owner or JEO to any contractor, contractor's subcontractor, supplier, other individual or entity, or to any surety for or employee of any of them.
- c. All duties and responsibilities undertaken pursuant to this agreement shall be for the sole and exclusive benefit of the owner and JEO and not for the benefit of any other party.

**15. PRECEDENCE:** These standards, terms, and conditions shall take precedence over any inconsistent or contradictory language contained in any proposal, contract, purchase order, requisition, notice to proceed, or like document regarding JEO's services.

**16. SEVERABILITY:** Any provision or part of the agreement held to be void or unenforceable shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon the owner and JEO, who agree that the agreement shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

**17. NON-DISCRIMINATION CLAUSE:** Pursuant to Neb. Rev. Stat. § 73-102, the parties declare, promise, and warrant that they have and will continue to comply fully with Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C.A § 1985, et seq.) and the Nebraska Fair Employment Practice Act, Neb. Rev. Stat. § 48-1101, et seq., in that there shall be no discrimination against any employee who is employed in the performance of this agreement, or against any applicant for such employment, because of age, color, national origin, race, religion, creed, disability or sex.

**18. E-VERIFY:** JEO shall register with and use the E-Verify Program, or an equivalent federal program designated by the United States Department of Homeland Security or other federal agency authorized to verify the work eligibility status of a newly hired employee pursuant to the Immigration Reform and Control Act of 1986, to determine the work eligibility status of new employees physically performing services within the state where the work shall be performed. Engineer shall require the same of each consultant.





## Exhibit A: Scope of Work

DODGE COUNTY, NEBRASKA

Rawhide Creek WFPO Watershed Plan – Environmental Assessment

Project Number: 200881.00

### PROJECT OVERVIEW

The Rawhide Creek project area contains a series of drainage ditches constructed prior to 1929, levees, and embankments. During the March 2019 flooding event these undersized and inadequate systems were exposed as overland flows combined with Platte and Elkhorn River flow from breaches and overtopping, thus contributing to the catastrophic flooding experienced by the communities within project area which caused approximately \$34 million in public damages. This project is needed to mitigate flood-related damages to Fremont, other communities and agricultural properties, improve flood resiliency, and stabilize streambanks. Dodge County wishes to establish the Rawhide Creek WFPO Watershed Plan – Environmental Assessment (Plan-EA) using Watershed Flood Prevention and Operations (WFPO) funding from the Natural Resources Conservation Service (NRCS). JEO Consulting Group, Inc. (JEO) was selected by the Dodge County Area Joint Water Management Advisory Board (Advisory Board) and will provide services to Dodge County, the project sponsor.

This scope of services was developed based on a standard task list provided by the NRCS as part of Dodge County's final WFPO agreement with NRCS. Additionally, the final Plan-EA is required to meet the requirements outlined in the NRCS Title 390, National Watershed Program Manual and Handbook and the latest Principles, Requirements and Guidelines (PR&G) for Water and Land Related Resources Implementation Studies. It is assumed that U.S. Army Corps of Engineers (USACE) will be cooperating federal agency on this project, and that the final Plan-EA will meet 404(b)(1) requirements pertaining alternatives analysis. Should data inadequacies be discovered, or documents or assumptions detailed in this scope change, JEO will present any possible impacts to the cost or schedule to Dodge County prior to executing the additional services.

Each potential alternative may need different types of assessments, field work, or other unique needs to be fully evaluated; however, at the time of scoping it is unknown what the preferred alternative will be. Therefore, once alternatives are identified JEO will work with Dodge County and NRCS in evaluating this scope of work to ensure it is inclusive of the work needed to fully evaluate each alternative. This review will be conducted as early as possible in the project, and it is anticipated it will take place around Step 5 of the scope. The tasks to complete this project have been organized as follows.

### TASK SUMMARY

- Step 1: Identify Problems, Opportunities, and Concerns
- Step 2: Determine Objectives
- Step 3: Inventory Resources
- Step 4: Analyze Resource Data
- Step 5: Formulate Alternatives
- Step 6: Evaluate Alternatives
- Step 7: Make Decisions

**STEP 1: IDENTIFY PROBLEMS, OPPORTUNITIES, AND CONCERNS**

**1.1: Plan of Work**

JEO will provide a project manager (PM) who will be responsible for developing and monitoring a comprehensive plan of work defining the project goals and priorities. This project scope shall serve as the plan of work. The PM will also be responsible for maintaining the project schedule, budget, and work quality. JEO will ensure all deliverables are professionally produced and receive proper quality assurance and quality control (QA/QC) from the QA/QC Manager.

JEO will provide a progress report with each monthly invoice. It is anticipated that phone calls, progress reports, and email communications will be sufficient to facilitate most work efforts. It is anticipated that project management activities will extend approximately one month later than the final approval date of the Plan-EA. This is to allow for project closeout activities, including printing and distribution of final deliverables. JEO will identify and document to Dodge County any findings or requests that are not within the current scope of services. JEO will discuss these items with Dodge County prior to proceeding.

**1.2: Public Involvement Plan**

JEO will work with Dodge County and NRCS to develop a Public Involvement Plan (PIP). The PIP will guide how input from the watershed stakeholders is obtained and focus the Plan-EA on the most relevant issues. The PIP will identify who will be invited to each meeting, what methods of engagement to use for meetings, and the primary objective for those meetings. It also includes notation of public hearings required by others, if necessary. Implementation of the PIP will be documented and will become a part of the required reviewable record. The PIP will be reviewed by Dodge County and NRCS and finalized before stakeholder or public engagement work begins. JEO will monitor COVID-19 health directives and recommendations, as they may relate to any meetings. It is anticipated most meetings will be conducted virtually.

JEO will create and maintain an online GIS-based StoryMap for the duration of the project. The StoryMap will serve as a project website, and will include: project background, project updates, watershed overview and tour, public comment including site specific issues and potential solutions, and project contact information.

**1.3: Gather Data, Assess Issues, Perform Field Reconnaissance, and Obtain Input**

JEO will gather and review available data provided by the Advisory Board members, NRCS, and other agencies and to fully understand the current conditions and deficiencies related to flood prevention. Field reconnaissance will be used to better understand resources and opportunities related to providing flood prevention within the watershed and gain a local understanding. Field reconnaissance includes site visits to all existing structures. Additional persons and agencies who should be consulted will be identified and listed in the PIP, along with their contact information.

It is assumed that project alternatives are generally focused on berms, channel improvements, small dams, and detention structures. This task will include establishing baseline conditions for the watershed, including existing conservation practices. Gathering data will include assembly of existing plans, reports, or GIS data. A summary of meetings is provided below:

**Meetings to Meet NRCS WFPO requirements:**

- Public Open House #1 of 2
- Agency Scoping Meeting #1 of 2

**Additional Stakeholder Meetings:**

- Up to four community meetings to be held in North Bend and Fremont
- Up to two days for one-on-one stakeholder property owner meetings to be held in North Bend and Fremont

**NRCS Planning and USACE Progress Milestone Meetings:**

- Kickoff Meeting and Review of Data Collection Needs
- Post-discussion of Scoping (after Agency Scoping #1)
- Refining Purpose and Need
- 30% of total progress including checkoff/review of alternatives
- 60% of total progress including project screening and 404(b)(1)
- 90% of total progress

**Project Management Meetings:**

- Regular progress meetings including initial kickoff with Dodge County staff, monthly or as needed. (assumed eight total, 50% virtually via Microsoft Teams, 50% in-person in Fremont). Meetings will be combined with and/or adjacent to East Drainage project meetings, as appropriate.

Per NRCS requirements, State NRCS staff will initiate consultation, where warranted, for cultural resources and other special environmental concerns such as endangered species with the Nebraska Historical Preservation Offices (NeSHPO), tribal governments, and the US Fish and Wildlife Service (USFWS). JEO will send copies of scoping meeting invitation letters to NRCS at least six weeks in advance of each meeting. JEO will provide copies of site maps to NRCS and appropriate federal and state agencies for environmental review and notify NRCS of environmental clearance or any unresolved concerns.

**Step 1: Key Responsibilities/Assumptions**

- Project management services will be provided for 18 months following notice to proceed
- JEO will send invitation letters for the agency scoping meetings, outside of those required to be mailed from the State NRCS Office.
- NRCS has already initiated correspondence with the USACE.
- JEO will provide draft copies of other meeting notifications/press releases, invitations, and flyers
  - Dodge County will publish, mail, or distribute
- JEO will provide general project information materials that can be used for Dodge County's website and social media.
- Dodge County will make arraignments for meeting facilities.
- Dodge County, NRCS, USACE will provide input and timely reviews on all draft documents.
- Dodge County or other Advisory Board members will coordinate with landowners, when necessary.
- Deliverables:
  - Monthly invoices and progress reports
  - Public Involvement Plan
  - Meeting agendas, materials, and minutes for facilitated meetings
  - News releases, flyers, and other notification materials
  - Notes and photographs from all meetings

EXHIBIT A: SCOPE OF WORK

RAWHIDE CREEK WFPO WATERSHED PLAN – ENVIRONMENTAL ASSESSMENT

- Quarterly report to NRCS after 30% meeting is complete
- Copies of public comment forms, copies of easel pad notes, etc.

**STEP 2: DETERMINE OBJECTIVES**

**2.1: Document Sponsor Objectives, Establish Purpose and Need Statement and Scope of Plan**

JEO will work with Dodge County and NRCS to document the project objectives, write a purpose and need statement, and develop a scope for the plan that meets applicable NRCS, PR&G, and National Environmental Policy Act (NEPA) requirements.

The purpose and need statement will be drafted and finalized with input from Dodge County, NRCS, and USACE which will then guide the planning and alternatives selection processes. The purpose and need will become the primary driver for project site selection, screening, scoping, and all aspects of the planning process. While the purpose and need statement may slightly be modified as the project progresses, it is anticipated that it will not expand or change so drastically that new alternatives outside of what was identified in the WFPO application will need to be considered.

JEO will prepare an initial outline of the Plan-EA based on similar plans that have been prepared and on guidance found in NRCS Title 390, National Watershed Program Manual and Handbook. The outline will be reviewed, and adjusted as needed, by Dodge County, NRCS, and JEO. This outline will then become the working document that the entire Plan-EA is written around.

**Step 2: Key Responsibilities/Assumptions**

- It is anticipated that no major changes to the Plan-EA outline will need to be made once approved.
- Deliverables
  - Draft purpose and need statement
  - Final purpose and need statement will be provided in final Plan-EA

**STEP 3: INVENTORY RESOURCES**

**3.1: Conduct Resource Inventories & Watershed Assessment**

This task includes identifying and collecting pertinent data regarding environmental resources within the watershed that may be impacted or affected by the project. Inventories will be adequate to establish baseline conditions as required by NWPM Part 501.24 B. This information will provide the basis for forecasting project effects. Unless otherwise noted, a desktop level identification and characterization will be completed for each of the following resources using readily available datasets. Field verification or sampling is not included, unless otherwise noted. Field site visits to each existing structure will occur to evaluate and document the general condition of each site.

- Soils
- Wetlands
- Land Use and Cover
- Establish air quality conditions
- Water quality conditions in terms of designated uses
- Highly erodible cropland
- Floodplain
- Fish and wildlife habitat and generally describes species composition
- State and federally listed threatened and endangered species



## EXHIBIT A: SCOPE OF WORK

### RAWHIDE CREEK WFPO WATERSHED PLAN – ENVIRONMENTAL ASSESSMENT

- Invasive species populations
- Water quantity concerns
- Topography
- Climate
- Riparian areas
- Natural areas (specially designated areas).
- Migratory bird habitat
- Prime and unique farmland
- Wild and scenic rivers

Letters of consultation for resource inventories will be part of the previously described method in Step 1.3.

#### **3.2: Economic and Social Effects**

This task includes identifying pertinent economic and social resources within the watershed that may be impacted or affected. At a minimum, this will include infrastructure, demographic, health and safety, and economic conditions. Inventories will be adequate to establish baseline conditions as required by NWPM Part 501.24 B. This information will provide the basis for forecasting project effects. Unless otherwise noted, a desktop level identification and characterization will be completed for each resource, using readily available datasets. Field verification or sampling is not included, unless otherwise noted.

- Population demographics, which also includes identification of any Environmental Justice Communities and Tribal communities
- Public health and safety conditions
- Homes, businesses, and agricultural operations
- Visual concerns
- Economic data
- Road and bridge infrastructure
- Social/political factors that may impact land use for the life of the project
- Population centers

#### **3.3: Archeological and Historic Resources**

Local officials, residents, and landowners will be asked if they are aware of any archeological or historic resources within the watershed. Consultation with the NeSHPO and tribal governments will be conducted in coordination with NRCS. JEO will work with the NRCS Cultural Resource Specialist to determine the required Cultural Resource Assessment needs for the project area. Letters of consultation for archeological and historic resource inventories will be completed as previously described in Step 1.3.

This includes completion of comprehensive background research and developing a report to inventory previously recorded archaeological and above-ground historic sites and past cultural resource surveys carried out within the watershed vicinity. Previously recorded archeological sites and investigations will be determined through consultation of the Nebraska Cultural Resources Geographic Information System (NCRGIS) housed at the State Archeological Office (SAO) and above ground resource information will be gathered through examination of materials on file at the NeSHPO.

The background study will also incorporate data from the on-going Nebraska Buried Sites GIS Project (also housed at the SAO) that identifies landforms with an increased likelihood of containing deeply

buried archeological deposits. This background investigation report will provide general information regarding the character and content of previously recorded resources within the study area in order to develop expectations on the type of resources that might be encountered as specific construction projects are programmed. Accordingly, the background study will aid in informing preliminary decisions about cultural resource impacts within Areas of Potential Effects (APE) as they are defined.

### **3.4: Engineering and Geology**

This task includes identifying and collecting pertinent data for engineering and geologic evaluation within the watershed. JEO will collect limited field topographic survey of critical features. This survey will not include a full topographic survey. Boundary or property information will not be collected by surveyors. JEO will collect and review land ownership records utilizing county parcel data. Regional and site-specific geological data, where available, will be identified and collected.

### **3.5: Maps and Documentation**

Maps and summary documentation will be produced using a geodatabase for key watershed characteristics: watershed boundary, wetlands, water bodies, land use, and soils. A summary of the watershed problems, technical capabilities, constraints, or any concerns that may impact the project will be updated.

#### **Step 3: Key Responsibilities/Assumptions**

- JEO will be responsible for preparing and sending all letters of consultation, except those to be sent by NRCS including NeSHPO, tribal governments, and USFWS.
- Field work for wetlands, cultural resources, or geology is not included.
- Full topographic survey is not included.
- Deliverables
  - Copies of all consultation letters
  - Maps, tables, and narratives for to be used within the Plan-EA

#### **STEP 4: ANALYZE RESOURCE DATA**

##### **4.1: Analyze Existing Data**

JEO will analyze and summarize inventory and watershed assessment data collected in Step 3 through statistics, maps, and other analytical techniques and tools.

##### **4.2: Geology**

JEO will analyze geologic and soil data collected in Step 3. Soil erosion, sedimentation rates, and delivery ratios will be developed to identify constraints and project needs to consider during alternative development.

##### **4.3: Initial Hydrology and Hydraulics**

JEO will develop Hydrology and Hydraulic (H & H) models to map the existing conditions for the watershed. Hydrologic analysis will be conducted using the HEC-HMS modeling software. Rainfall depths for applicable storms will be obtained from NOAA Atlas 14. Contributing drainage areas will be delineated using the most recently available LiDAR information and sized appropriately based upon potential alternatives. Land use will be obtained from the National Land Cover Dataset, and soil information will be obtained from the Web Soil Survey. Time of concentrations for individual sub-basins will be developed using TR-55 methodology.

EXHIBIT A: SCOPE OF WORK  
RAWHIDE CREEK WFPO WATERSHED PLAN – ENVIRONMENTAL ASSESSMENT

To determine downstream flood control benefits, the hydraulic model will be modified based upon the results of the hydrology modeling. This H&H model will be developed using HEC-RAS. Existing conditions will be compared to proposed alternatives to determine reductions in flood impacts. The benefits identified will be utilized in the benefit cost analysis using HAZUS.

**4.4: Economics and Social Effects**

An initial analysis will be completed using the existing data to identify what effects or damages the project area would face without a project. This will include identifying the following:

- Urban or developed area damages
- Agricultural area damages
- Non-agricultural area damages (roads, bridges, utilities, etc.)
- Reviewing social resource data
- Ecosystem services

**4.5: Environmental Evaluation**

An environmental evaluation, summarizing the data collected within Step 3, will be performed. This analysis is a concurrent part of the planning process in which the potential long-term and short-term impacts of an action on people, their physical surroundings, and nature are evaluated, and alternative actions explored. The environmental evaluation determines what level of NEPA analysis will be required for the project. If necessary, NRCS Form CPA-52 Environmental Evaluation Worksheet will be included. The documentation of the environmental analysis will become an official part of the project record.

**Step 4: Key Responsibilities/Assumptions**

- JEO assumes an EA will be required resulting in a Finding of No Significant Impact (FONSI)
- Deliverables
  - Maps, tables, and narratives for to be used within the Plan-EA
  - Updated H&H Model
  - A map illustrating the APE
  - Environmental Evaluation Form CPA-52
  - Graphics/renderings of existing conditions flooding

**STEP 5: FORMULATE ALTERNATIVES**

**5.1: Analysis of Initial Alternatives**

JEO will formulate a reasonable list of alternatives (approximately 20 sites) targeted to meet flood risk reduction and other project goals. Alternatives will be sited based on existing conditions of structures, H&H analysis, consideration of work from the previously completed pilot project, collected resource information, and Dodge County, NRCS, USACE, and stakeholder input. GIS will be used to identify appropriate drainage areas and initial structure sizing. Alignments of other potential structures, such as overflow channels or levees, will be shown on maps, should they be considered.

Each alternative will be evaluated against the purpose and need in consideration of reasonable and practicable criteria. Reasonable is based on consideration of the project purpose as well as technology, economics and common sense. Practicable is defined as meaning the alternative is available, and capable of being done after taking into consideration cost, existing technology, and/or logistics in light of the overall project purpose. The completeness, effectiveness, efficiency, and acceptability of each



EXHIBIT A: SCOPE OF WORK  
RAWHIDE CREEK WFPO WATERSHED PLAN – ENVIRONMENTAL ASSESSMENT

feasible alternative will be analyzed and documented, along with a list of alternatives considered, but not carried forward for detailed review. This will include the following:

- Identify quality criteria
- Develop practice/measure list
- Purpose and need
- Reasonable and practicable criteria
- Determine practice/measure adoption rates
- Identify permits, licenses, or other entitlements required
- Define mitigation strategies
- Determine projects costs for each alternative
- Area of benefit
- Determination of fatal flaws (i.e. utility conflicts, etc.)

This analysis will be compiled as an Initial Alternatives Report. JEO will review the report with Dodge County, USACE, and NRCS during the 30% milestone meeting. Documentation will be developed for any alternatives removed from further consideration and analysis.

**5.2: Area of Potential Effect**

A map illustrating the area of potential effect (APE) will be used to further evaluate and review cultural and environment resources of alternatives carried forward for detailed review. APE areas will be developed after initial watershed and engineering analysis ensure it includes the full potential project area. The APE will also include access roads, spoil sites, project site layout, and other likely facilities potentially impacted by construction or inundation that will be included in the project. A review of the collected data will then be completed to identify constraints and project needs to consider during alternative development.

**5.3: ArcGIS Online Housing of Information**

Potential alternatives and relevant information from the data gathering phase will be housed in an ArcGIS online database. This will aid in sharing of information virtually with the internal project team and during project meetings with Dodge County, NRCS, and other partners.

**Step 5: Key Responsibilities/Assumptions**

- Deliverables
  - Initial Alternatives Report
  - APEs
  - GIS data of potential alternative locations

**STEP 6: EVALUATE ALTERNATIVES**

**6.1: Evaluate Resource Data**

After screening the full list of alternatives, a more detailed evaluation of each alternative carried forward will be completed. Field work to complete wetland delineations, cultural resource surveys, geotechnical analysis, and detailed economic analysis will only be completed for the preferred alternatives, once selected by Dodge County.

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Wetland Delineations

Wetland delineations will be completed using the 1987 USACE Wetland Delineation Manual and applicable regional supplement. Delineations occur only for project sites that are part of the preferred alternative. The Nebraska Stream Condition Assessments Procedure (NeSCAP) or functional assessments are not included within the planning effort. It is anticipated that 404 permitting will be completed during future WFPO phases (design and/or construction), and not during the planning phase.

Archeological and Historic Resources

JEO will work with the NRCS Cultural Resource Specialist to determine the required Cultural Resource Assessment needs for the project area. Detailed surveys will occur only for project sites that are part of the preferred alternative. Minimally intensive (Class III level) cultural resource inventory of the proposed area of potential effect (APE) will be required to identify any archeological sites or historic structures that may be affected by the proposed watershed improvements. The inventory will be conducted to professional standards in accordance with the *Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation* (48 FR 44716-44742), and the *Secretary's Standard for Identification* (48 FR 44720-44723). All archeological field investigations, reports, and site forms will follow the guidelines issued in the *NeSHRP National Historic Preservation Act Archeological Properties Section 106 Guidelines*. All documents produced will meet the standards for supporting documentation under Section 106 of the National Historic Preservation Act (36 CFR 800.11(e)).

As specific land modification projects are identified, the SAO will complete comprehensive field investigations to identify all archeological sites and above-ground historic resources within the specific project area APEs. The APEs will be identified for archeology and above ground resources through consultation between JEO, Dodge County, the NeSHPO and the lead federal agency – the NRCS. In most cases, the APE for above ground resources will be larger than that identified for archeological properties to take into account visual effects. Field investigations will involve the following tasks and considerations:

- Pedestrian archeological survey of 100 percent of the APE defined for specific construction projects.
- Based on landform setting and the results of examination of the Nebraska Buried Sites GIS, the need for limited mechanical coring or backhoe trenching may be required in consultation with a geomorphologist.
- All discovered archeological sites will be described, photographed, and mapped using hand-held GPS units. SAO site forms will be completed for each site.
- Any artifacts collected during these investigations will be returned to the property owners upon conclusion of the project unless owners wish to donate material to History Nebraska for permanent curation.
- Nebraska one-call will be contacted prior to any subsurface testing to avoid utility conflicts.
- A project historic architect will conduct additional field investigations and background research to identify all above-ground resources in the defined APE in accordance with NeSHPO guidelines for historic architectural survey.
- Reporting: The results of all archeological and historic architectural investigations will be documented in reports of investigations.
- Additional archeological field investigations due to unforeseen or significant historical findings requiring detailed evaluation will be subject to a change in scope.

### **6.2: Geology**

An evaluation of geologic and groundwater resource data will be completed to identify how those resources will be affected by and how they affect designs of alternatives. A preliminary geotechnical analysis would only occur on projects that are part of the preferred alternative with a positive benefit-cost ratio.

Note: Further geotechnical analysis may be necessary as part of the final design phase after plan approval.

### **6.3: Hydrology and Hydraulics Conceptual Design**

A list of alternatives carried forward will be further evaluated using the H&H modeling to define project locations and benefits up to a conceptual design level. Feasible alternatives will be carried forward until they can be eliminated from further evaluation for any number of potential reasons, such as not meeting project purpose, technical feasibility, costs, benefit/cost ratio, or other environmental, cultural, or social considerations. JEO will prepare conceptual design of the final preferred alternative in accordance with standard engineering principles that comply with NRCS programmatic requirements. Conceptual design details could include:

- Preliminary grading plans
- Summary of Quantities
- Preliminary Opinions of cost
- Right-of-Way needs
- Utility research
- Preliminary Geotechnical Evaluation (if applicable)

### **6.4: Economics**

Economic benefits for all alternatives will be identified and quantified. If appropriate, JEO will review the possibilities for recreation at potential project sites should additional benefits need to be considered. The benefit-cost analysis will be completed for each of the design alternatives according to the NRCS agency guidance for implementing the recently updated PR&G Guidelines. The economic analysis will occur using a five-step process:

- Step One – Identify engineering and operational cost of preferred alternative
- Step Two - Identify benefits of preferred alternatives
- Step Three - Quantify benefits of preferred alternative
- Step Four - Value benefits of preferred alternatives
- Step Five - Identify preferred alternatives with benefit-cost ratios greater than 1.0

The benefit cost ratio will be included in a project summary table that features site number, cost, BCA, structure sizes, flow reduction estimates, etc.

### **6.5: Identify Other Effects and Requirements**

In order to fully evaluate each alternative, a multitude of other potential effects or requirements for each alternative will be evaluated. These include the following:

- Direct and Indirect effects
- Significance of effects (context and intensity)
- Develop mitigation or reformulate alternatives to avoid and minimize adverse environmental effects
- Determine potential for effect controversy



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- Identify possible conflicts between Federal, State, Local and Tribal; Policies, Laws, and Objectives
- Identify major environmental conflicts resolved
- Identify unresolved environmental conflicts and proposed resolution
- Identify consistency with Regional Water Resource plans
- Identify and determine if effects are cumulatively significant
- Identify adverse environmental effects that can't be avoided
- Determine the impacts on short-term land use
- Determine impacts to long-term productivity
- Determine energy and natural or depletable resource requirements & conservation potential
- Determine urban quality impacts
- Determine reuse and conservation potential of Alternatives
- Identify Risks and Uncertainty of effects
- Determine if Actions create any precedents
- Identify irreversible or irretrievable commitments of resources

#### Step 6: Key Responsibilities/Assumptions

- The Nebraska Stream Condition Assessments Procedure (NeSCAP) or functional assessments are not included within the planning effort.
- Engineering design work is only up to a preliminary design level (approximately 20%)
- Deliverables
  - Updated Alternatives Report
  - Summary of each evaluation will be included within the Plan-EA
  - Draft Investigation and Analysis Report, to be included in the Plan-EA
  - Graphics/renderings of preferred alternative and its effect on the floodplain
  - Costs for additional wetland delineations has not been included
- The cost for archeology field investigations and report preparation are based on an estimated seven project areas under 100 acres and one project area of about 200 acres.
  - Cost for additional archeological studies and evaluation has not been included.
- The cost for wetland delineations and report preparation are based on performing wetland delineations over approximately 900 acres.
  - Cost for additional wetland delineations has not been included.
- Archeological work will meet standards for:
  - The National Historic Preservation Act
  - NEPA
  - NRCS General Manual
  - The Nebraska Unmarked Human Burials Sites and Skeletal Remains Protection Act
  - The Nebraska Archeological Resources Preservation Act.
  - Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation and Identification
  - NeSHPO Archeological Properties, Section 106 Guidelines
  - NeSHPO Historic Resources Survey & Inventory Manual

#### **STEP 7: MAKE DECISIONS**

##### **7.1: Compare and Review Alternatives with Sponsor**

JEO will guide Dodge County and NRCS through an alternatives assessment process. Each alternative will be evaluated against the purpose and need in consideration of reasonable and practicable criteria.

## EXHIBIT A: SCOPE OF WORK

### RAWHIDE CREEK WFPO WATERSHED PLAN – ENVIRONMENTAL ASSESSMENT

Additionally, each alternative will be screened, using a matrix or similar mechanism, against evaluation criteria such as social acceptance, financial, technical, environmental, etc. This process will guide feasibility and help the project team rank and determine preferred alternatives. The alternative assessment would also include red flag criteria, such as significant permitting challenges, controversy, or projects with poor benefits.

Information will be provided to Dodge County regarding the National Economic Development (NED), Environmental Quality (EQ), Other Social Effects (OSE), and Regional Economic Development (RED) accounts. The accounts and the alternatives they represent will be presented to the sponsor. The most socially acceptable, environmentally friendly, and economically effective alternative which meets the project's purpose and need, Dodge County goals, and plan requirements will be selected as the preferred alternative. The preferred alternative will move forward for inclusion within the Watershed Plan-EA.

#### **7.2: Prepare the Draft Plan-EA**

JEO will prepare the Plan-EA as outlined in NRCS, PR&G, and NEPA policy and in cooperation with USACE. The environmental assessment process will evaluate effects of the alternatives for all resources and concerns identified during the scoping process. The process is described in and will comply with current NRCS National Watershed Planning Manual Part 501 guidelines and the PR&G.

In addition to the identification of the preferred alternative, cost and benefits, and environmental assessment, the plan will also include a review of permitting requirements, land rights, operation and maintenance needs, and the Plan-EA's relationship to other plans and projects.

#### **7.3: Reviews**

JEO will prepare a draft Plan-EA following the finalized plan outline and utilizing input from all previous tasks. Plan writing will follow a "concurrent review process", where the plan is written and then reviewed by Dodge County and NRCS chapter-by-chapter. JEO will follow a robust internal quality assurance/quality control (QA/QC) process including both an editorial and subject matter expert review, prior to any drafts being submitted for review.

Following the concurrent review process, JEO will submit a full draft Plan-EA to State NRCS. The Plan-EA document will be substantially complete by this point with all findings incorporated into the document. The draft Plan-EA will be updated to address any comments received from the State NRCS review. Following updates, the Plan-EA will be submitted to the NRCS National Water Management Center (NWMC) for review. Once complete, JEO will facilitate a meeting with Dodge County and NRCS to review all comments and concerns. At this meeting a decision will be made on how to address each comment and concern. JEO will then address each comment and concern on the draft Plan-EA.

This task includes time and effort for preparing, receiving, and addressing correspondence and comments from agencies and the public. A form public & Interagency review period will be completed. Formal letters will be drafted and sent to government agencies requesting input on the planning process and the draft Plan-EA. All comments received at public or scoping meetings or as responses to agency correspondence letters will be documented in a tracking spreadsheet maintained by JEO. All input received will be provided to Dodge County and NRCS for review. Following discussions with Dodge County and NRCS, JEO will prepare formal responses, which acknowledge the comments and state how

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they were incorporated into the Plan-EA and sent to each entity that sent a letter. Additionally, input will be gathered from the public and multiple agencies through two meetings facilitated by JEO:

- Public Open House #2 of 2
- Agency Scoping Meeting #2 of 2

Letters of consultation for scoping meeting #2 will be completed as previously described method in Step 1.3.

#### **7.4: Prepare Final Plan-EA**

JEO will address comments made by participating agencies and other parties and the Plan-EA will be updated to reflect any necessary changes to due to public or agency comments. JEO will address comments on the final environmental document made during the NRCS National Programmatic Review.

#### **7.5: Final Plan Approval**

JEO will work with Dodge County to obtain required signatures for the approved Plan-EA. JEO will provide electronic and hard copies of the final Plan-EA. Final deliverables will include printed and electronic copies of the plan, supporting materials, and any GIS data utilized. Printed copies of the plan will be provided in three-ring binders, with an associated CD or USB drive containing all GIS data, PDFs, and other supporting files used in the development of the Plan-EA.

#### **Step 7: Key Responsibilities/Assumptions**

- NRCS to provide information on the NED, EQ, OSE, and RED accounts.
- JEO assumes an EA will be required that will likely result in a Finding of No Significant Impact (FONSI), not an Environmental Impact Statement (EIS).
- Scope assumes no unforeseen or significant controversies from agency or public reviews.
- Dodge County and NRCS will forward any and all comments it receives to JEO.
- JEO will be responsible for preparing and sending all letters of consultation, except those to SHPO, tribal governments, and USFWS. NRCS will be responsible for those.
- NRCS will be responsible for direct correspondence with the USACE.
- JEO assumes no more than two rounds of reviews of draft materials by the NRCS NWMC will be necessary.
- JEO will coordinate one comment review meeting.
- Dodge County to ensure Plan-EA approval is on the Board of Supervisors monthly meeting agenda
- Dodge County to assist in getting signatures from board members or staff on the approved Plan-EA.
- Deliverables
  - Spreadsheet with comments and responses tracked.
  - Letters of consultation and responses
  - Print, compile, and send hardcopies of the final Plan-EA to the following entities:
    - Dodge County – four copies.
    - State NRCS – 1 copy.
    - NRCS NHQ / NWMC – three copies (if requested).
  - Provide a USB drive (or other delivery method) with each hardcopy.
  - Provide a temporary location to download all project deliverables.



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 RAWHIDE CREEK WFPO WATERSHED PLAN – ENVIRONMENTAL ASSESSMENT

**PROJECT FEE\***

JEO will provide the services described herein for lump sum fee amount of \$670,500.00. Dodge County will be billed monthly for services. A Task Series breakdown of the project fee is provided below. Additional services can be provided based upon current hourly rates as requested by the owner. JEO will begin work immediately following the receipt of Notice to Proceed. Budget may be re-distributed among tasks, with approval by Dodge County, so long as the total fee amount does not change.

Project Tasks		Total Fee
Step 1	Identify Problems, Opportunities, and Concerns	\$110,500.00
Step 2	Determine Objectives	\$11,360.00
Step 3	Inventory Resources	\$84,800.00
Step 4	Analyze Resource Data	\$82,840.00
Step 5	Formulate Alternatives	\$25,480.00
Step 6	Evaluate Alternatives	\$246,880.00
Step 7	Make Decisions	\$107,440.00
<b>Total</b>		<b>\$669,300.00</b>

\*Each potential alternative may need different types of assessments, field work, or other unique needs to be fully evaluated; however, at the time of scoping it is unknown what the preferred alternative will be. Therefore, once alternatives are identified JEO will work with Dodge County and NRCS in evaluating this scope of work to ensure it is inclusive of the work needed to fully evaluate each alternative. Additional services may be required depending in the outcome of the preferred alternative. This review will be conducted as early as possible in the project, and it is anticipated it will take place around Step 5 of the scope.

**ASSUMPTIONS**

- Dodge County will assist with property access for all necessary site visits

**SERVICES NOT INCLUDED**

- Detailed dam, ditch, or water control system assessments beyond the general evaluation of structures based on the parameters required for development of this WFPO Plan-EA
- Additional meetings not mentioned in the above scope
- Website hosting, maintenance, or other social media posts not outlined in the above scope
- Additional biological surveys or compliance with other agency requests not outlined in the scope of services
- Additional archeological field investigations due to unforeseen or significant historical findings requiring detailed evaluation.
- Water quality sampling, stream gaging, analysis, or data acquisition
- Other data collection not outlined in the scope of services
- Design plans and cost estimates beyond conceptual level
- NeSCAP or functional assessments
- Regulatory permits including 404, 401 certification, floodplain permits, or similar authorizations
- Final design or construction engineering services
- Property, deed, or title searches
- Preparation of an Environmental Impact Statement (EIS)

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 RAWHIDE CREEK WFPO WATERSHED PLAN – ENVIRONMENTAL ASSESSMENT

**PROJECT SCHEDULE**

The anticipated project schedule is shown in Figure 1 below based on the total number of months in the project. A detailed project schedule with major milestones per task will be provided at the kickoff meeting and modified or maintained as needed to ensure that the Plan-EA will be submitted for authorization. This assumes the NRCS agreement was signed in February 2021, and the Notice to Proceed occurs in September 2021. The schedule will include milestones for coordination meetings with the USACE and/or NRCS.

*Note: Project schedule is dependent upon availability of funding, timing of notice to proceed, timely reviews by regulatory agencies and stakeholders, as well as timely project direction from the project sponsors.*

**Figure 1: Anticipated Project Schedule**

Tasks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Notice to Proceed	█																			
Step 1 - Identify Problems, Opportunities, and Concerns	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Step 2 - Determine Objectives		█	█	█	█		█			█										
Step 3 - Inventory Resources			█	█	█															
Step 4 - Analyze Resource Data	█	█						█	█											
Step 5 - Formulate Alternatives				█	█	█	█	█	█		█									
Step 6 - Evaluate Alternatives									█	█	█	█	█	█	█	█	█			
Step 7 - Make Decisions													█	█	█	█	█	█		

Dodge County, NE  
Fee Estimate  
Rawhide Creek



Task and Fee Structure

Task	Hours / Task	JEO Hours												Fee
		JP	A Rupa	Various	Various	Various	Artis	LRE	BBC	HN	Geotech			
		PM	Planner	ENRIS	PEE/MH	ENV	QA/QC	GW		Arch	FE			
JEO Hourly Rate	\$200.00	\$150.00	\$100.00	\$175.00	\$160.00	\$105.00	\$200.00	\$150.00	\$150.00	\$205.00				
<b>Step 1 - Identify Problems, Opportunities, and Concerns</b>														
Project Management (for the entire duration of the project)	64	40	24										\$11,600.00	
- Billings & Progress Reports	140	40	100										\$23,000.00	
- General Coordination, ad hoc meetings, phone calls	28	2	24										\$4,000.00	
Develop Public Participation Plan	72	8	24	32	8								\$9,800.00	
Assemble Existing Data	8	12	16										\$5,600.00	
Recon Field Visit	38	4	16	16									\$4,800.00	
Stakeholder Coordination	38	4	16	16									\$4,800.00	
-Public Open House #1	40	8	16	16									\$5,600.00	
-Agency Scoping Meeting #1	56	4	12	32	8								\$7,200.00	
Additional Stakeholder Coordination Meetings with communities (4 meetings)	170	30	70	70									\$33,500.00	
Meeting notifications / agency letters	80	16	32	32									\$11,200.00	
NRCS and USACE progress milestone meetings (6 meetings)														
Progress Meetings with Dodge County and JEO (8 meetings)														
<b>Subtotal</b>	<b>720</b>	<b>164</b>	<b>346</b>	<b>230</b>	<b>16</b>								<b>\$110,500.00</b>	
<b>Step 2 - Determine Objectives</b>														
Document sponsor objectives	18	4	10	4									\$2,700.00	
Write Purpose & Need Statement	33	1	12			12	8						\$4,760.00	
Write Scope of Plan-EA	29	1	8			8	4						\$3,900.00	
<b>Subtotal</b>	<b>80</b>	<b>6</b>	<b>30</b>	<b>12</b>		<b>20</b>	<b>12</b>						<b>\$11,360.00</b>	
<b>Step 3 - Inventory Resources</b>														
Conduct Resource Inventories & Watershed Assessment	10	2					8						\$1,680.00	
Collection of Existing Data Only	58		16	16			24						\$7,840.00	
Economic & Social Effects	48		32	16									\$6,400.00	
Archeological & Historic Resources	334	2	32						300				\$50,200.00	
Topographic Survey (spot shots)	60			60									\$6,000.00	
Geology	16		16										\$2,400.00	
Support Maps	38		12	26									\$4,400.00	
Document Problem	52		12	24			16						\$5,880.00	
<b>Subtotal</b>	<b>614</b>	<b>4</b>	<b>120</b>	<b>142</b>		<b>32</b>	<b>16</b>		<b>300</b>				<b>\$84,860.00</b>	
<b>Step 4 - Analyze Resource Data</b>														
Analyze Existing Data (Desktop data only)	56		16	32	8								\$7,000.00	
Geology	32				32								\$5,600.00	
Sediment Modeling	260			160	80		20						\$32,100.00	
Hydrology & Hydraulics	52		16	24		12							\$6,720.00	
Review Cultural Resource Data	100	8	8	40	40		4						\$14,220.00	
Impact area maps (Area of Potential Effect (APE) Map)	40	8	16	16									\$5,600.00	
Economics and social effects (future without project condition)	80		32				32	16					\$11,600.00	
Public & Private Utility Coordination														
Environmental Evaluation														
<b>Subtotal</b>	<b>620</b>	<b>16</b>	<b>88</b>	<b>272</b>	<b>160</b>	<b>44</b>	<b>40</b>						<b>\$82,840.00</b>	
<b>Step 5 - Formulate Alternatives</b>														
Analysis of Initial Alternatives	158	10	20	80	32		16						\$20,280.00	
Prepare Initial Alternatives Report (and other documentation)	42	2	16	24									\$5,200.00	
<b>Subtotal</b>	<b>200</b>	<b>12</b>	<b>36</b>	<b>104</b>	<b>32</b>		<b>16</b>						<b>\$25,480.00</b>	
<b>Step 6 - Evaluate Alternatives</b>														
Evaluate Resource Data	80		40	40									\$10,000.00	
Welland Determinations						150							\$24,000.00	
Archeological and Historic Resources														
Foundation and slope stability (geotechnical eval)	236	4	4		24					204			\$47,420.00	
Sedimentation	40				40								\$7,000.00	
Groundwater analysis (mounding & impact analysis)	44						40						\$6,600.00	
Hydrology & Hydraulics	18						16						\$1,800.00	
Conceptual Design	452	20	32	280	120								\$57,800.00	
Value Engineering (Design Charrette Meeting)	20	4	4	4	8								\$3,200.00	
<b>Economics (all alternatives)</b>														
Determine economic benefits for each alternative	132	4	8				120						\$19,400.00	
Recreation area / Fisheries	88				16								\$10,000.00	
Benefit/Cost Analysis	232	4	16	12					220				\$37,300.00	
Identify direct & indirect effects	8		8										\$1,200.00	
Determine Significance of Effects	56		32	24									\$7,200.00	
Develop avoidance or mitigation actions	24		8	16									\$2,800.00	
Identify major controversy, conflicts, and other effects	80		24	40			16						\$9,200.00	
<b>Subtotal</b>	<b>1528</b>	<b>28</b>	<b>164</b>	<b>500</b>	<b>220</b>	<b>150</b>	<b>32</b>	<b>40</b>	<b>340</b>	<b>204</b>			<b>\$246,880.00</b>	
<b>Step 7 - Make Decisions</b>														
Compare Alternatives (NED, EO, OSE, and RED accounts)	34	6	8	12			8						\$4,440.00	
Review alternatives, identify preferred alternative	22	6	8	8									\$3,200.00	
Prepare the Draft Plan-EA														
Plan Cover	1												\$150.00	
Summary (OMB Fact Sheet)	6		2	4									\$700.00	
Section 1 - Purpose & Need	6		4			2							\$920.00	
Section 2 - Scope of EA	8		4	4									\$1,000.00	
Section 3 - Affected Environment	40		8	32									\$4,400.00	
Section 4 - Alternatives														
Formulation Process	16		4	12									\$1,800.00	
All considered but Eliminated	16		4	12									\$1,800.00	
Description of each alternative	20		4	16									\$2,200.00	
Comparison of Alternatives	14	2	4	8									\$1,800.00	
Section 5 - Environmental Consequences	84		20	32		32							\$11,600.00	
Section 6 - Consultation & Public Participation	12		4	8									\$1,400.00	
Section 7 - Provisions of the Preferred Alt.														
Rational for Alt. Preference	4		4										\$600.00	
Measures to be installed	3		1	2									\$350.00	
Mitigation	6		4			2							\$900.00	
Permits & Compliance	3		1			2							\$470.00	
Costs & Cost Sharing	6		2	4									\$700.00	
Installation & Finance	1		1										\$150.00	
Operations, Maintenance, and Replacement	1		1										\$150.00	
Economic & Structural Tables	8		4					4					\$1,200.00	
Section 8 - Additional Information														
Compile References, List of Preparers, Distribution list, and Index	16		8	8									\$2,000.00	
<b>Appendices</b>														
A - Comments & Responses	6		2	4									\$700.00	
B - Support Maps & project map (GIS)	42		10	32									\$4,700.00	
C - Investigation & Analysis Report	24		4	8		8		4					\$3,220.00	
D - Supporting Information	8		4	4									\$1,000.00	
E - Update Project Map	4		4										\$400.00	
Prepare watershed agreement	10		8	2									\$1,400.00	
Prepare land rights work maps	48		8	40									\$5,200.00	
<b>Reviews</b>														
Conduct internal review (QA/QC) and make modifications	87	15	16	16			40						\$11,200.00	
Technical review by NWMIC and make modifications	104		32	32			40						\$12,200.00	
Meeting at NRCS	26	4	8	8			6						\$3,430.00	
Sponsor Draft Plan/EA Review	12		4	8									\$1,400.00	
Conduct Inter-Agency Review	4	2	2										\$700.00	
Public Open House #2	36	4	16	16									\$4,800.00	
Agency Scoping Meeting #2	36	4	16	16									\$4,800.00	
Prepare Final Plan-EA														
Resolve comments and incorporate changes	16		4	12									\$1,800.00	
Finalize Section 6 / Appendix A	6		2	4									\$700.00	
Final Plan Approval	30	2	16	8		4							\$4,020.00	
Prepare and process FONSI	16		8	8									\$2,000.00	
Gather Signatures	4		4										\$600.00	
Prepare final deliverables	14		2	12		8	38	102	4				\$1,500.00	
<b>Subtotal</b>	<b>860</b>	<b>45</b>	<b>267</b>	<b>396</b>	<b>8</b>	<b>38</b>	<b>102</b>	<b>4</b>					<b>\$107,440.00</b>	
<b>Total Hours</b>	<b>4622</b>	<b>275</b>	<b>1051</b>	<b>1656</b>	<b>436</b>	<b>284</b>	<b>218</b>	<b>40</b>	<b>344</b>	<b>300</b>	<b>204</b>		<b>\$669,300.00</b>	