



TECHNICAL PROPOSAL REPORT

Agreement: E02126	Project Specific	Active
Name: SR 3004 (State Road) over Little Elk Creek		Selection Process: Normal Initiating Org: Engineering District 6-0
Supplement: 1	Normal	Executed
Description: add work to determine if a property is eligible for the national register and if there is any adverse effect. Conduct archaeological exploration to determine presence of artifact at project site. Perform detail survey of threatened and endangered species		

Part 1 - BMS 15-3004-0020-0000 PD

Description

Preliminary design services for replacement of bridge on SR 3004 over Little Elk Creek in Elk Township. ANTP for the project is January 14, 2011. See special comments and requirement sections for further detail of consultant's responsibilities.

Task 1 - Project Management/Administration

Objective:

2.1.1 - Project Management/Administration

This task consists of the administrative effort required by principals, project manager, and involved personnel to complete the project on time and within budget, and to provide a quality product.

2.1.1.1 - Meetings

This task includes meeting preparation, attendance and documentation in the form of minutes. This includes Project Status, Design Review and Special Purpose Meetings.

2.1.1.3 - Quality Control/Quality Assurance

This task consists of the effort to administer the QC/QA policies and procedures.

2.1.1.5 - Project Schedule Development and Maintenance

The purpose of this task is to prepare and maintain a design schedule that ranges from Scoping Field View to Contract Award.

2.1.1.16 - Engineering and Environmental Scoping

This task involves the participation with the project team.

Scope:

2.1.1 - Project Management/Administration

Project Management involves the planning, scheduling, organizing and controlling of resources to achieve specific objectives within established

schedule, budget and quality standards. The Project Manager is responsible for the tasks outlined in the Department Detail.

2.1.1.1 - Meetings

Attend all project meetings as necessary, including meeting preparation and minutes. Meetings will include but will not be limited to:

Project Status Meetings

Design Review Meetings

~~Special Purpose Meetings (e.g., Kick-off Meeting, Design Field View, etc.)~~

Public Meetings

Preparation for the meetings will include an agenda and any visuals necessary to conduct the meeting.

Meeting minutes will be prepared in a timely and accurate manner.

2.1.1.3 - Quality Control/Quality Assurance

Quality Control and Quality Assurance practices and procedures need to be incorporated and administered.

PennDOT has implemented procedures to place additional responsibilities on consultants for quality of work. The consultants will be required to submit a corporate quality plan and submit job specific Quality Development plans for PennDOT approval. As part of quality reviews, process reviews, and IAPs, these plans and the consultants conformance to them will be monitored, evaluated and documented.

Design Manual Part 1A can be used as a source of information to develop QC/QA policies and procedures.

2.1.1.5 - Project Schedule Development and Maintenance

Guidance:

- Publication 615, Scheduling Manual
- All applicable strike-off-letters
- ECMS (Project Management Homepage)

Scope:

1. Develop a design schedule utilizing Deltek's Open Plan software. The design schedule will be developed in accordance with Publication 615 using the Department's PDSRPRJ and PDSMASTER templates.
2. Maintain the design schedule utilizing Deltek's WelcomHome software.
3. Document all schedule issues to ensure that the project is let on time.

Scope Subtasks:

1. Coordinate the schedule development with the entire project team. The project team includes but is not limited to the District Portfolio Manager, the District Project Manager, various District functional units, the Bureau of Design, the Federal Highways Administration and various environmental agencies. Development of the schedule will consist of reviewing the schedule to ensure it contains the appropriate activities. There may be the need to add or delete activities to make the schedule specific to a given project. The review and modification of durations or

relationships should also be performed to ensure that the schedule is setup to meet the desired completion date.

2. Prepare a draft of the design schedule that will be reviewed by the project team either in conjunction with a project status meeting or offline depending on the frequency of these meetings. The draft will, if approved, become the initial project schedule and be maintained through the remainder of the project.

3. Monthly progress of the design schedule activities will be input into Deltek's WelcomHome software. The schedule update day of the month will be specified by the District Project Manager to ensure that they have appropriate time to review proposed schedule changes prior to acceptance.

4. In the event that a major change in schedule occurs the Department will provide an Open Plan backup file (bk3) so that revisions can be made and resubmitted to the Department. Re-submittal shall follow the same process as the initial schedule development.

Scope Deliverables:

1. Provide the project team a draft design schedule in portable document format (PDF) and/or hard copy. The draft will contain relationships and durations so that they can be reviewed along with the activities that are included in the schedule. Schedules provided in portable document format (PDF) shall be submitted either by email or CD-ROM.

2. Upon acceptance of the schedule by the project team an Open Plan backup file (bk3) shall be provided to the District Project Manager either by email or CD-ROM.

3. Resubmit major revisions to the design schedule, as an Open Plan backup file (bk3), to the District Project Manager either by email or CD-ROM.

4. All schedule documentation shall be provided in MS Word compatible format to the District Project Manager either by email or CD-ROM.

2.1.1.16 - Engineering and Environmental Scoping

~~Level 1 CEEs (Categorical Exclusion Evaluations) do not require field views, however, the CEE form can be used to guide the cultural scoping grounds for Level 1A CEEs. Although not strictly required on CEE Level 1A and 1B projects, serious consideration should be given to including the Bureau of Design on these projects.~~

Project Scoping will include conducting an engineering/environmental scoping field view of the project area and completion of a preliminary scoping form (Publication 294).

Coordinate Scoping Field Views through the Highway Quality Assurance Division of the Bureau of Design. The determination of the requirement for a separate project needs document will be made by the District Environmental Manager for CEE Level 1A and 1B projects and by FHWA for CEE Level 2 projects. All projects that involve Level 2 CEE must involve the Bureau of Design Project Development Engineer. If historic resources could be impacted, the Department qualified cultural resource professional must be contacted.

1. Establish a Project Team. The Project Team is usually comprised of staff from PennDOT's originating office location, person(s) from PennDOT Central Office and FHWA.

2. Schedule a Scoping Field View with the Project Team.

3. Prior to the Scoping Field View visit, complete Part A and some of Part B of the Scoping Form.

4. Attend Scoping Field View and provide comments.

5. Develop an appropriate public/agency involvement plan in conjunction with the Team members at the Scoping Field View as outlined in PennDOT Publication 295.
6. Complete the entire Scoping Field View Form.
7. Distribute to attendees.

Detail Task 2 - Project Management/Administration

Department Details:

Limited coordination between prime and sub consultant for above ground historic property, T&E habitat assessment and botanical survey, and archaeology fieldwork related activities detailed in other parts of the scope.

Approach:

Larson Design Group (LDG) will provide limited coordination for our subconsultant, Stell Environmental Enterprises (SEE) during the completion of the tasks included in the addendum. No meetings are anticipated under this task.

Task 6 - Threatened and Endangered Species

Objective:

2.2.16 - Threatened and Endangered Species

This task includes the coordination with the U.S. Fish and Wildlife Service, PA Game Commission, PA Fish and Boat Commission, PNDI, PADEP and DCNR to determine the presence or absence of state or federally listed threatened and endangered species in the project area. This information will be used to determine if the proposed alternatives will impact the life requisites of threatened, endangered species, biological resources and species of special concern in the project area.

2.2.16.1 - PNDI Search

This task includes the coordination with the PADEP and/or DCNR to perform a PNDI search to identify the state listed threatened and endangered species within a project area.

2.2.16.3 - Pennsylvania Fish and Boat Commission

This task includes the coordination with the Pennsylvania Fish and Boat Commission to determine the presence of state listed threatened and endangered species within a project area.

2.2.16.4 - Pennsylvania Game Commission

This task includes the coordination with the Pennsylvania Game Commission to determine the presence of state listed threatened and endangered species within a project area.

Scope:

2.2.16 - Threatened and Endangered Species
Needs completed.

2.2.16.1 - PNDI Search

Request a database search of the project area for records of threatened or endangered species within or surrounding the project area. These results will be made available to the appropriate natural resource agencies and will be used as one of many tools to assess the habitat of the project area.

2.2.16.3 - Pennsylvania Fish and Boat Commission

Coordinate with the PA Fish and Boat Commission to identify state listed threatened or endangered fish, amphibians, and reptiles, including their associated habitats. This will be accomplished through agency field-views and coordination meetings. This information will be used in preparation of the environmental documentation and in analysis of the project alternative impacts.

2.2.16.4 - Pennsylvania Game Commission

Coordinate with the PA Game Commission to identify state listed threatened or endangered terrestrial wildlife species, wildlife management areas, and habitats of concern. This will be accomplished through agency field-views and coordination meetings. This information will be used in preparation of the environmental documentation and in analysis of the project alternative impacts.

Detail Task 2 - Habitat Assessment

Department Details:

Conduct field survey to assess habitat of species per DCNR request. Prepare reports to summarize findings of field survey and recommend if further action is required.

Approach:

LDG will coordinate with SEE for the successful completion of this task. LDG and SEE will review the recommendations of the habitat assessment and coordinate with the Department to determine if the Botanical Survey is needed or whether it can be avoided through further coordination with DCNR. All submissions will be reviewed by LDG for consistency before submitting to the District. If corrections are required, LDG will coordinate the corrections and resubmissions with our subconsultant.

In response to the results of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt No. 20110720307705, the Pennsylvania Department of Conservation and Natural Resources (DCNR) replied September 13, 2011 indicating four (4) threatened or endangered species may be located within the limits of disturbance of the SR 3004 bridge replacement project over Little Elk Creek. These species include arrow-feather three awned (*Aristida purpurascens*), downy lobelia (*Lobelia puberula*), few flowered nutrush (*Scleria pauciflora*), and narrow-leaved white-topped aster (*Sericocarpus linifolius*).

Based on potential impacts to these threatened or endangered species, DCNR requests either a habitat assessment to ascertain the potential for the appropriate habitat, or a detailed botanical survey of the subject species. In addition, DCNR advised that four (4) additional species of concern may be located within the project area. These species include tufted hairgrass (*Deschampsia cespitosa*), stiff cowbane (*Oxypolis rigidior*), lion's-foot (*Prenanthes serpenteria*), and bushy aster (*Symphotrichum dumosum*). DCNR requested that should any of these species be observed during the botanical surveys, they should be reported to their office.

In order to conduct the habitat assessment, SEE will perform a one day field survey to identify and describe the current land cover, habitat types and species found to confirm that appropriate habitat for the species exists at the project site. An absence of specific land cover and habitat type

conducive to the above species of concern may preclude a detailed botanical survey of the project site. The results of the habitat assessment in the form of a report will be forwarded to DCNR for their concurrence and their determination whether a subsequent botanical survey is necessary.

Detail Task 3 - Botanical Survey

Department Details:

Conduct detail botanical survey and prepare associated reports, if necessary.

Consult DCNR and received written request prior to commencement of this activity.

Approach:

LDG will coordinate with SEE for the successful completion of this task. All submissions will be reviewed by LDG for consistency before submitting to the District. If corrections are required, LDG will coordinate the corrections and resubmissions with our subconsultant.

If DCNR requires the completion of a botanical investigation, SEE will perform four (4) surveys of the threatened or endangered species, one per month during the months of June, July, August, and September 2012. Timing the surveys during this period will allow the investigations to be conducted during the annual flowering period for each species. As part of these field investigations, SEE will also conduct a survey for the four (4) species of special concern during the same time as those for the threatened and endangered species. Biologists with experience conducting these types of surveys will search the area on foot, using a pre-determined transect. Each survey will be conducted so as to ensure that the project area is searched thoroughly. During the surveys, hand-held Global Positioning Satellite (GPS) units will be utilized to record transect lines for placement on an aerial map. The map will be included in the final report for the project.

Upon the conclusion of the botanical surveys, a report of the findings will be prepared by SEE. This report will include the following as per the Protocols for Conducting Surveys for Plant Species of Special Concern: Part 3 of 4 – Preparing the Botanical Survey Report, DCNR:

- The PNDI number and project names
- PNDI receipt and DCNR correspondence relevant to the project
- The target species
- The dates the surveys were conducted
- Surveyor's names and contact information
- Justification for conducting the surveys during a given time of the year
- Sampling method
- Botanical references used to identify species
- Habitat description
- Photographs
- Project location map and survey area including a GIS Shapefiles of transects used during the surveys
- Justifications and recommendations (should threatened or endangered species or species of special concern be observed)

One (1) electronic copy of the report will be forwarded to LDG and PennDOT District 6-0 for review and comment. Upon approval, one (1) electronic and one (1) paper copy of the report will be forwarded to DCNR.

Task 10 - Archaeology

Objective:

2.2.29 - Archaeology

To determine the potential for prehistoric and historic archaeological resources (geomorphology, predictive model) within the area of potential effect (APE), determine the presence or absence of prehistoric and historic archaeological resources within the APE (Phase I), assess the significance of identified resources for eligibility to the National Register of Historic Places (Phase II), determine project effects on eligible resources, and develop appropriate mitigation strategies, such as data recovery (Phase III), as warranted.

2.2.29.4 - Geomorphology

Geomorphological investigations should be conducted in alluvial or colluvial settings within the area of potential effect and may be used to document degree of disturbance, assess the potential for deeply buried cultural resources which are apt to be adversely affected by construction activities, record archaeological site stratigraphy, and document depositional processes. Initial geomorphological investigations should be done prior to Phase I archaeological testing and should be used to develop the archaeological deep testing strategy.

Scope:

2.2.29 - Archaeology

Archaeology covers those steps in Section 106 consultation involving the identification and evaluation of significant archaeological sites, the project's effects on significant archaeological sites, and appropriate public and consulting party involvement.

2.2.29.4 - Geomorphology

Guidance:

- "Guidelines for Archaeological Investigations in Pennsylvania", November 2008, Bureau for Historic Preservation, Pennsylvania Historical and Museum Commission

Scope:

At the direction of the PennDOT District Cultural Resource Professional(s), conduct a geomorphological investigation of alluvial and colluvial settings within the vertical and horizontal APE.

The scope of work will include some or all of the following activities:

1. Using auger borings, trenches, or other means to examine soil profiles, determine the landform(s) on which the project is located, determine the soil type(s), stratigraphy, and age of the depositional events and soils.
2. Determine the potential for intact archaeological deposits.
3. When the geomorphological investigation concludes that there is no potential for deeply buried archaeological sites within the vertical and horizontal APE, prepare a report that includes:
 - a. a map showing the location(s) of the borings or trenches
 - b. soil profiles that represent the range of variability within the vertical and horizontal APE
 - c. a description of the landform(s) and soils within the vertical and horizontal APE
 - d. soil formation processes
 - e. a discussion on the age of the soils.
 - f. conclusions and recommendations

4. When the geomorphological investigation determines that there is a potential for deeply buried archaeological sites, or when geomorphology studies are conducted as part of an archaeological site excavation, prepare a geomorphology report that includes:
 - a. a map showing the location(s) of the borings or trenches
 - b. soil profiles that represent the range of variability within the APE
 - c. a description of the landform(s) and soils within the APE
 - d. soil formation processes
 - e. a discussion on the age of the soils
 - f. conclusions and recommendations
 - g. Incorporate the investigations into the archaeology report (see 2.2.29.5).
5. Submit the document(s) to the PennDOT Project Manager for review by the PennDOT District Cultural Resource Professional(s).
6. Upon review and approval by the PennDOT District Cultural Resource Professional(s), submit the requested number of final reports to the Department.
7. At the request of the PennDOT District Cultural Resource Professional(s), provide electronic copies of the documentation.

Scope Deliverables:

1. Draft Geomorphological Report, either as a document by itself, or as an appendix in a Phase I archaeological identification report.
2. Final Geomorphological Report, either as a document by itself, or as an appendix in a Phase I archaeological identification report.
3. Electronic copies of the documentation, as requested.

Detail Task 2 - Subsurface testing of project APE

Department Details:

Reasonable background research should be conducted. Subsurface testing within the project APE will follow to locate pre-contact and historic archaeological remains.

Approach:

LDG will coordinate with SEE for the successful completion of this task. LDG will provide background information including survey mapping as requested by SEE. All submissions will be reviewed by LDG for consistency before submitting to the District. If corrections are required, LDG will coordinate the corrections and resubmissions with our subconsultant.

SEE will conduct Phase IB archaeological subsurface testing of areas to be impacted by the proposed bridge replacement to locate pre-contact and historic archaeological remains, if present, and to preliminarily evaluate their potential eligibility for inclusion in the NRHP. All archaeological work conducted under this contract will conform to Guidelines for Archaeological Investigations in Pennsylvania, by the Bureau for Historic Preservation, Pennsylvania Historical and Museum Commission (BHP, PHMC 2008). The Phase IB archaeological subsurface testing will consist of background research, archaeological fieldwork, preliminary artifact analysis (if artifacts are recovered), and report preparation.

The background research for this project will include, but not be limited to, review of previously completed cultural resources projects in the vicinity

of the project APE for archaeology and the on-line Pennsylvania Archaeological Site Survey files (PASS) on the Cultural Resources Geographic Information Systems (CRGIS) website maintained by the BHP, PHMC. Historic maps of the project area and regional cultural histories will also be examined. Other forms of background research, oral interviews, and records searches may be used, if they relate to the project. In addition, geographic, environmental, and soils information will be reviewed.

The Phase IB subsurface archaeological testing is based on the results of a geomorphological assessment completed on August 3, 2011 in the project area, as well as current preliminary plan mapping developed on November 11, 2011. The project includes replacement of the current bridge and stream bank restoration on the upstream side of the current bridge. The geomorphological assessment included a recommendation for testing in the southwestern and southeastern quadrants to an approximate depth of 120 cm below ground surface, and subsurface testing in the northeastern and northwestern quadrants to approximate depths of either 75 cm or 110 cm bgs, depending upon the location of stream restoration activities on the floodplain.

Subsurface archaeological testing will consist of the hand-excavation of 1.0 x 1.0 m (3.3 x 3.3 ft) test units. A minimum of two and a maximum of four 1.0 x 1.0 m (3.3 x 3.3 ft) test units to a maximum depth of 1.5 m (4.9 ft) are assumed, with one test unit placed in each of the four quadrants of the bridge. Minimally, the southern quadrant test units will be excavated, with the potential to excavate the two test units in the northern quadrants if enough testable area within the stream restoration portion of the APE permits.

The test units will be excavated in 10.0 cm (3.9 in) levels within natural strata of sufficient thickness. All excavated sediments will be screened through 0.64 cm (0.25 in) mesh hardware cloth in order to recover any artifacts that may be present. Information regarding the soil texture and color, depth of any cultural materials recovered, and any soil disturbance will be recorded on standard excavation forms. Daily field notes and excavation information will be kept by the field director. The archaeological investigations will be documented via digital color photography.

Detail Task 3 - Prepare Phase I Survey Report

Department Details:

Summarize findings from geomorphological assessment, background research, and subsurface testing in a comprehensive report to the satisfaction of department cultural resource team.

Approach:

LDG will coordinate with SEE for the successful completion of this task. We will provide background information including survey mapping as requested by SEE. All submissions will be reviewed by LDG for consistency before submitting to the District. If corrections are required, LDG will coordinate the corrections and resubmissions with our subconsultant.

SEE will prepare a Phase I survey report containing the results of the background research, the geomorphological assessment, the test unit excavations, analysis of any recovered artifacts, and any recommendations for Phase II testing to determine potential NRHP eligibility of any archaeological sites identified during these investigations. The report will be illustrated using maps, photographs, and measured drawings, as needed. Costs to complete any recommended Phase II testing investigations will be covered under supplemental agreement.

Detail Task 4 - Artifacts recovery and preservation

Department Details:

Recover and preserve artifacts founds during subsurface testing and other activities. Coordination all efforts with department cultural resources.

Approach:

LDG will coordinate with SEE for the successful completion of this task. All submissions will be reviewed by LDG for consistency before submitting to the District. If corrections are required, LDG will coordinate the corrections and resubmissions with our subconsultant.

Processing of all recovered artifacts will include recordation, washing, sorting, labeling, and/or re-bagging of the artifacts. Preliminary laboratory analysis will be performed in accordance with the classes of artifacts which are recovered during the Phase I survey and will follow standard archaeological practice. The recovery potential for pre-contact archaeological remains is moderate to high, based on the close proximity of a landowner-reported archaeological site on the terrace overlooking the floodplain in the southeastern quadrant and based on the presence of testable soils noted during the geomorphological assessment. Therefore, a maximum recovery of 50 artifacts is assumed during the Phase I survey. Any artifacts and project materials recovered from the Phase I investigations will be prepared for permanent curation at the State Museum of Pennsylvania. A maximum of one cubic foot (1 box) of collections is assumed for curation.

Task 24 - Above Ground Historic Properties: Historic Structures, Buildings, Districts, and National Parks

Objective:

2.2.30 - Above Ground Historic Properties: Historic Structures, Buildings, Districts, and National Parks

Identify above-ground historic properties, including historic structures, buildings, and districts, and National Historic Landmarks within the project's area of potential effect (APE), assess the effect of the project on eligible above-ground historic properties and develop strategies for mitigation when there is an unavoidable adverse effect.

2.2.30.5 - Above Ground Historic Properties Identification and Evaluation—Recommendations of Eligibility

Identify above-ground historic properties, including historic structures, buildings, and districts, within the project's area of potential effect (APE).

2.2.30.6 - Determination of Effects

To assess effects of the project on eligible or listed historic properties or National Historic Landmarks within the area of potential effect (APE).

Scope:

2.2.30 - Above Ground Historic Properties: Historic Structures, Buildings, Districts, and National Parks

Guidance:

- 36 CFR § 800.4
- 36 CFR § 800.10

Scope:

At the direction of the Project Manager (PM) and in coordination with the PennDOT District Cultural Resource Professional(s), any or all of the following subtasks may be implemented; each subtask may be combined with other subtasks in the same document at the request of the CRP:

2.2.30.3. Background Research and Reconnaissance Surveys

2.2.30.4. Historic Contexts

2.2.30.5. Above Ground Historic Properties Identification and Evaluation – Recommendations of Eligibility

2.2.30.6. Determination of Effects

2.2.30.7. Public Involvement

Scope Deliverables:

See individual subtasks.

2.2.30.5 - Above Ground Historic Properties Identification and Evaluation—Recommendations of Eligibility

Guidance:

- 36 CFR § 800.4
- National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation

Scope:

At the direction of the Project Manager and in coordination with the PennDOT District Cultural Resource Professional(s), identify above-ground historic properties, including historic structures, buildings, and districts, within the project's APE.

The scope of work will include some or all of the following activities:

1. Confer with the PennDOT District Cultural Resource Professional(s) to determine or confirm the APE for the project and the level of effort needed to identify potentially significant above ground historic resources located within the APE.
2. Confer with the PennDOT District Cultural Resource Professional(s) to establish what the important themes are that influenced the area's pattern of development. At the direction of the Cultural Resource Professional, develop concise narratives (where narratives do not already exist) on each of the significant themes for which there are extant properties in the APE.
3. Complete a Pennsylvania Historic Resource Survey (PHRS) short form or full form for each property specified by the PennDOT District Cultural Resource Professional(s). The District Cultural Resource Professional may request that some properties be documented on short forms and some may be documented on full forms.
4. Prepare a draft Historic Structures Determination of Eligibility Report, if requested by the District Cultural Resource Professional.
4. Submit the report or document(s) (PHRS forms) to the PennDOT Project Manager for review by the PennDOT District Cultural Resource Professional(s).
5. Upon review and approval by the PennDOT District Cultural Resource Professional(s), submit the requested number of final reports or documentation to the Department.
6. At the request of the PennDOT District Cultural Resource Professional(s), provide electronic copies of the report or documentation.

Scope Deliverables:

1. Draft Historic Structures Determination of Eligibility Report or documentation.
2. Final copies of Historic Structures Eligibility Report or documentation.
3. Electronic copies of the Report or documentation, if requested.

2.2.30.6 - Determination of Effects

Guidance:

- 36 CFR Section 800.4(d) and 800.5.

Scope:

At the direction of the PennDOT District Cultural Resource Professional(s), develop a Determination of Effect report that assesses the effects of the project on properties determined eligible for, or listed in the National Register of Historic Places in accordance with 36 CFR Section 800.4(d) and 800.5, or National Historic Landmarks in accordance with 36 CFR Section 800.10.

The scope of work will include the following activities:

1. Prepare a Determination of Effect report that contains the following:

a. The SHPO's Environmental Review #

b. A Table of Contents

c. An abstract which contains a project description, a description of the APE, a summary of the project status, relevant laws and regulations, a summary of historic properties in the APE, and a summary of effects.

d. A description of alternatives considered or under consideration including any proposed measures or alternatives that were considered to avoid or minimize the effects resulting from the project. The engineering decisions resulting in the selection of the preferred alternative must be documented.

e. A description and map of the current APE. If the APE has been revised since earlier coordination with SHPO, include a description of why and how the APE has changed.

f. A summary of the efforts to identify historic properties and results of identification.

g. An evaluation of effects including application of the definition of effect and criteria of adverse effect (as appropriate) to each eligible property in the APE, minimally for the preferred alternative.

h. A summary of the alternatives considered, particularly any alternatives considered that would avoid adverse effects.

i. A description of the public involvement efforts, including efforts to seek out and involve Consulting Parties, made to date and proposed public involvement.

j. Sufficient photographs of the APE.

k. Recommendations for avoidance, minimization and or mitigation.

2. Submit the document(s) to the PennDOT Project Manager for review by the PennDOT District Cultural Resource Professional(s).

3. Upon review and approval by the PennDOT District Cultural Resource Professional(s), submit the requested number of final documentation to the Department.

4. At the request of the PennDOT District Cultural Resource Professional(s), provide electronic copies of the documentation.

Scope Deliverables:

1. Draft Determination of Effect report.

2. Final copies of Determination of Effect report.

3. Electronic copies of the documentation, if requested.

Detail Task 1 - Above Ground Historic Properties Identification and Evaluation–Recommendations of Eligibility

Department Details:

Execute activities detailed in scope statement

Approach:

As a result of preliminary investigation and the Scoping Field View meeting, the PennDOT Cultural Resource Professional (CRP) has requested that the adjacent George Gregg Farmstead be further investigated regarding its potential historic eligibility. In response to this request, SEE provides the following summary of the work effort in addition to the Section 4(f) tasks in the original scope of work:

Cultural Resource Early Coordination: Project assumes that the District 6-0 CRP will be conducting the Section 106 consultation effort.

Area of Potential Effect (APE): The APE for this project has already been established with the CRP.

All of the historic structure work will be undertaken in accordance with state and federal mandates that protect significant historic resources. Federal and state mandates for historic resources protection include: The Federal Highway Act of 1966 as amended in 1968; the National Environmental Policy Act of 1969; the National Historic Preservation Act of 1966 (which includes the Section 106 review process); Executive Order 11593. This work will be performed in accordance with the Department's procedures as outlined in the Pennsylvania Historical and Museum Commission's (PHMC) "Guidelines for Historic Resource Surveys in Pennsylvania". It is anticipated that one property in the project APE, Parcel 70-3-32 (George Gregg Farmstead), will be surveyed and documented on a Pennsylvania Historic Resource Survey (PHRS) Form. SEE will prepare the PHRS Form and submit it to PennDOT.

LDG will coordinate with SEE for the successful completion of this task. We will provide background information including survey mapping as requested by SEE. All submissions will be reviewed by LDG for consistency before submitting to the District. If corrections are required, LDG will coordinate the corrections and resubmissions with our subconsultant.

Detail Task 2 - Determination of Effects

Department Details:

Discuss with district cultural resources professionals before executing activities detailed in scope statement

Approach:

LDG will coordinate with SEE for the successful completion of this task. We will provide background information including survey mapping as requested by SEE. All submissions, including the PHRS form, Memorandum of Agreement and Mitigation plans will be reviewed by LDG for consistency before submitting to the District. If corrections are required, LDG will coordinate the corrections and resubmissions with our subconsultant.

SEE will discuss with the District CRP prior to executing any of the following activities. As defined in 36 CFR Part 800.16(i), an undertaking has an "effect" on a historic property when the undertaking alters the characteristics of the property that qualify it for inclusion in or eligibility for the National Register of Historic Places (NRHP). A Determination of Effects report is required only if a resource(s) is listed or is considered eligible for listing in the NRHP. If the George Gregg Farmstead is considered eligible, a Determination of Effects report will be prepared by SEE and submitted to PennDOT for their review. The report will follow the outline and format developed by the CRP for Determination of Effects Reports. The

Determination of Effects Report will evaluate the effects of the new bridge's proposed action on the George Gregg Farmstead.

Task 25 - Resolution of Adverse Effects

Objective:

2.2.31 - Resolution of Adverse Effects

This task establishes the steps needed to resolve known or anticipated adverse effects, leading to an executed memorandum of agreement and the formal conclusion of Section 106 consultation.

2.2.31.6 - Consultation with Tribes, other Consulting Parties, and the Public

Consultation to resolve adverse effects should occur between consulting parties, Federally Recognized Tribes that consider sites of cultural or religious significance, and the public. This consultation necessarily precedes the execution of a memorandum of agreement.

2.2.31.7 - Executing a Memorandum of Agreement

Prepare and execute a legal memorandum of agreement that resolves adverse effects and concludes formal consultation under Section 106.

Scope:

2.2.31 - Resolution of Adverse Effects

Resolution of Adverse Effects covers those steps in Section 106 consultation involving how adverse effects on historic resources are considered, how consulting parties are included in discussions, leading to an executed Memorandum of Agreement. This step formally concludes Section 106 consultation.

2.2.31.6 - Consultation with Tribes, other Consulting Parties, and the Public

- a) Develop other options for resolving adverse effects, if reasonable options are not available from the Determination of Effect Report, or if the project design has changed substantially from the time the Report was prepared. Upon review by the District Cultural Resource Professional, distribute to consulting parties.
- b) At the request of the District Cultural Resource Professional, attend public meetings to inform the public about significant cultural resources within the project area that are being adversely affected, explain the Section 106 process, solicit comments from the public on how to resolve these adverse effects, and invite members of the public to apply to be consulting parties. Prepare minutes, or a summary of comments received, to be submitted to the Department project manager and District's Cultural Resource Professional(s).
- c) At the request of the District Cultural Resource Professional, set up and coordinate cultural resource-specific meetings to inform the public about adversely affected significant cultural resources, including preparing and distributing announcements and visual materials and/or flyers. Prepare minutes, or a summary of comments received, to be submitted to the Department project manager and District's Cultural Resource Professional(s).
- d) At the request of the District Cultural Resource Professional, distribute a draft resolution of adverse effects document or draft MOA to all consulting parties, including the SHPO, FHWA, and consulting Tribes, soliciting and recording comments from consulting parties on the draft document.
- e) At the request of the District Cultural Resource Professional, set up and record meetings with consulting parties to resolve differences in the draft resolution document. Provide supporting documentation to such meetings that are necessary to explain the resolution option(s).
- f) At the request of the District Cultural Resource Professional, provide electronic copy of the documentation.

2.2.31.7 - Executing a Memorandum of Agreement

a) At the request of the Department Cultural Resource Professionals, transport the final MOA/PA for signature among the various signing parties.

Detail Task 1 - Consultation with Tribes, other Consulting Parties, and the Public

Department Details:

Discuss with PennDOT district cultural resource professional(s) before executing activities stated in scope statement.

Approach:

LDG will coordinate with SEE for the successful completion of this task. All submissions will be reviewed by LDG for consistency before submitting to the District. If corrections are required, LDG will coordinate the corrections and resubmissions with our subconsultant.

SEE anticipates a finding of No Adverse Effect for this property; therefore, any resolution of Adverse Effects tasks, including preparation and development of mitigation measures is not anticipated. If required, these tasks will be completed as follows:

Mitigation: SEE will consult with PennDOT, FHWA, the SHPO, and Section 106 consulting parties to develop a mitigation strategy for any eligible resource in the project APE that would be adversely affected. The mitigation strategy will include a public information program wherein results of the mitigation are disseminated to appropriate local groups and state agencies. SEE will coordinate with the PennDOT CRP to distribute this strategy via mail to local historic preservation organizations in Chester County and in the Elk Mills/Elk Township area.

Detail Task 2 - Executing a Memorandum of Agreement

Department Details:

Discuss with PennDOT district cultural resource professional(s) before executing activities stated in scope statement.

Approach:

LDG will coordinate with SEE for the successful completion of this task. All submissions will be reviewed by LDG for consistency before submitting to the District. If corrections are required, LDG will coordinate the corrections and resubmissions with our subconsultant.

SEE anticipates a finding of No Adverse Effect for this property; therefore, any resolution of Adverse Effects tasks, including Memorandum of Agreement (MOA) is not anticipated. If required, these tasks will be completed as follows:

Memorandum of Agreement (MOA): A MOA task and a mitigation task are required only when an adverse effect has been identified to a resource (s) that is listed or is considered eligible for listing in the NRHP. If the George Gregg Farmstead is considered eligible for the NRHP and if directed by the CRP, a MOA will be prepared by SEE. SEE will consult with PennDOT, Federal Highway Administration (FHWA), and the State Historic Preservation Officer (SHPO) to prepare a MOA if an adverse effect to the George Gregg Farmstead has been identified as a result of the bridge replacement. The MOA will identify responsible parties and include measures to mitigate the adverse effects on the resource. The MOA will be submitted to PennDOT for review.

Consultant Hierarchy

Business Partner	DBE Type	Supervising BP
Larson Design Group, Inc.	No	
Stell Environmental Enterprises, Inc.	Yes	Larson Design Group, Inc.

Attachments

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