



TECHNICAL PROPOSAL REPORT

Agreement: E01687	Project Specific	Active
Name: McKean County SR 4001 Section A01 over Lewis Run	Selection Process: Modified	Initiating Org: Engineering District 2-0
Supplement: 1	Normal	Executed
Description: provide for, under Part 2, the completion of the water line relocation plan and specifications, GP-5 Permit for the water line stream crossing, and supplemental surveys for the widening areas on the detour route that were not in the original scope of work		

Part 2 - Final Design

Description

McKean County SR 4001 Section A01

Task 2 - Waterway Permits

Objective:

2.7.4 - Waterway Permits

This task is the coordination with the appropriate environmental agencies and the preparation of permit applications.

2.7.4.1 - 105 Permit Application/401 Water Quality Certification (WQC)

This task includes the preparation of the Chapter 105 Permit application package.

2.7.4.2 - 105 Permit Approval

This task includes the coordination with the PADEP to obtain approval of the permit.

2.7.4.3 - 404 Permit Application

This is submitted as the 105 permit in PA

2.7.4.4 - 404 Permit Approval

This task includes the coordination with the U.S. Army Corps of Engineers (ACOE) to obtain approval of the Section 404 permit.

Scope:

2.7.4 - Waterway Permits

Needs completed.

2.7.4.1 - 105 Permit Application/401 Water Quality Certification (WQC)

1. Coordinate with the PADEP to present the water obstructions and encroachments associated with the project. Determine any specific

information requirements that will be needed for the Chapter 105 permit review.

2. Prepare a summary of the information requirements needed for the permit review.

3. Prepare the Chapter 105 Permit Application package using the PENNDOT JPA Expert System. This will include, but not limited to: the General Information Form, Chapter 105 Application (signed and notarized), location map, Act 14 Notification Letters with return receipts, floodplain and stormwater management consistency letters, Environmental Assessment Form, H&H reports, E&S approval letter, etc.

4. Provide written responses to any PADEP comments received on the permit package.

2.7.4.2 - 105 Permit Approval

Coordinate any additional information requirements with the PADEP and PennDOT. The 401 WQC will be issued by the PADEP with the Chapter 105 Permit.

2.7.4.3 - 404 Permit Application

Coordinate the information requirements with the USACE and PADEP for the Section 404 Permit during NEPA/404 Projects. Non-NEPA projects do not require a separate Section 404 Permit, as the PADEP Chapter 105 Joint Permit includes a simultaneous submission for the Section 404 Permit. For the NEPA/404 project, prepare a written request for the 401 WQC. The project EIS or EA will be the supporting document for this request.

Complete the Environmental Assessment Form contained in the PADEP Chapter 105 Application in order to obtain the 401 WQC. The Section 404 Permit is not valid until the 401 WQC is granted.

2.7.4.4 - 404 Permit Approval

Coordinate with the USACE to obtain the Section 404 Permit. Provide any additional information requirements needed for review by the USACE

Detail Task 2 - 2.7.4 - Waterway Permits

Department Details:

Complete a GP-5 Permit for the water line relocation stream crossing. The JPA2 Expert System cannot be used because the permit must be in name of the facility owner, Bradford City Water Authority.

Approach:

Dewberry will complete a Pennsylvania Department of Environmental Protection (PaDEP) Utility Line Stream Crossing Permit application (BDWM-GP-5) on behalf of the Bradford City Water Authority (BCWA) for the proposed water line relocation. Dewberry will prepare the required attachments and forward the completed application to BCWA for signature and submission. Dewberry assumes one round of review comments from PaDEP on the initial submission will be addressed in order to gain approval and issuance of the permit.

Task 5 - Supplemental Surveys

Objective:

2.10.3 - Supplemental Surveys

This task includes all survey required to supplement the original roadway survey or Photogrammetric mapping performed in Preliminary Design.

Scope:

2.10.3 - Supplemental Surveys

Guidance:

- Publication 122M, Surveying and Mapping Manual
- Strike Off Letter 430-99-20, QA/QC Control Checklist for Right-of-Way and Construction Plans
- Publication 213, Work Zone Traffic Control Manual
- Form D-428, Field Book

Scope:

The Quality Assurance/Quality Control Checklist will be completed and discussed with the District Chief of Survey for all final design survey work.

Prior to initiating surveys, develop a Traffic Control Plan in accordance with Publication 213 for implementation during surveys within existing transportation facilities.

Detail Task 2 - 2.10.3 - Supplemental Surveys

Department Details:

Complete additional survey needed for the pavement widening on the detour route in Big Shanty (SR 4001). Stake baseline control points and obtain centerline references. The established control points will be referenced with permanent markers outside the proposed limits of construction, but within the right-of-way.

Approach:

Dewberry will stake baseline control points and obtain centerline references for the proposed pavement widening along Big Shanty Road (SR 4001) at three locations. All reference points will be located within PennDOT Right-of-Way. It is assumed that references will be obtained for control points at or near the following stations:

POT Sta. 177+00.00
PC Sta. 179+44.43
PT Sta. 183+21.73
POT Sta. 186+00.00

POT Sta. 195+00.00
PC Sta. 197+35.60
PT Sta. 202+47.52
POT Sta. 205+00.00

POT Sta. 232+00.00
PI Sta. 234+35.63
POT Sta. 237+00.00

Dewberry will assign a two-man survey crew (one professional land surveyor and one survey technician) to complete this survey work.

Task 12 - Assemble Final Project Documents for Contract Management

Objective:

2.10.29 - Assemble Final Project Documents for Contract Management

This task is the preparation of the PS&E submission to District contract management.

Scope:

2.10.29 - Assemble Final Project Documents for Contract Management

Before any attempt is made to develop and submit a proposal, it is very important to obtain all required documents, contract drawings, design estimates and supporting data. Supporting documents such as environmental clearances and re-evaluations, funding authorizations, PMC approvals, DEP and Corps of Engineer permits, utility and right-of-way clearances, agreements and related administrative requirements must be resolved. Missing supporting documents complicate the PS&E process, and may affect project advancement to letting.

Assemble all available information on the project from the designers, such as plans or sketches, permits, non-standard special provisions, agreements, construction trainee requirements, Utility Form D-419 clearance and right-of-way certification.

Contract proposals should appear as uniform as possible on a State-wide basis to assist prospective bidders as well as Department personnel who use the proposal. All proposals are to be prepared by utilizing the Contract Management System (CMS) automated bid proposal development software, in accordance with the principles in the current "CMS Users Manual."

Assemble project documents in accordance with requirements of Publication 51M, "Contract Proposal Preparation Guide."

Detail Task 2 - 2.10.29 - Assemble Final Project Documents for Contract Management for Water Line Specifications

Department Details:

Review and incorporate the Specifications for Water Line Construction specifications provided by Bradford City Water Authority into the PS&E package submission. Ensure all items proposed for the water line relocation are Bulletin 15 approved.

Approach:

Dewberry will incorporate the water line relocation into the PS&E submission. Specifications for bid items and component items will be provided in format consistent with Publication 408, based on the specifications and standards provided by BCWA.

Task 13 - 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.

2.1.1.12 - Inter/Intra Agency Coordination

This task includes the coordination of project activities with all of the regulatory/resource agencies.

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 PDSRJ 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.

2.1.1.12 - Inter/Intra Agency Coordination

1. Invite all regulatory/resource agencies to scoping field view meetings in accordance with Publication 10/10A, Design Manual Part 1/1A.
2. Discuss methodologies for identifying and analyzing environmental impacts with the regulatory/resource agencies and ask for their input.
3. Request regulatory/resource agencies' attendance at any project meetings/hearings.

Detail Task 1 - 2.1.1 - Project Management/Administration

Department Details:

The consultant's Project Manager is responsible but not limited to the following:

1. Assemble and direct the design team, including sub-consultants.
2. Conduct project kick-off meetings.
3. Serve as the single point of contact for project communication.
4. Represent PennDOT at Public Meetings.
5. Coordinate project issues with outside Agencies.
6. Schedule Project Development Activities.
7. Review product quality and assure compliance with PennDOT's QC/QA plan.
8. Monitor design team performance and project development.
9. Control Project Costs.
10. Promote an atmosphere of good public relations and customer satisfaction.
11. Coordinate the flow of information

2.1.1.3 - Quality Control/Quality Assurance

No Details required.

Approach:

Dewberry will provide project management and administration of the supplemental work in accordance with the original agreement details.

Task 14 - Utility Engineering

Objective:

2.10.8 - Utility Engineering

This task consists of engineering for utility relocation.

Scope:

2.10.8 - Utility Engineering

Guidance:

- Publication 16M, Design Manual Part 5, Utility Relocation

Solicit the utilities requirements for the design and construction of the relocations as soon as possible to determine if:

- work will be done by utility staff and forces,
- work will be done by utility consultant and contractor,
- work will be requested to be done by PennDOT's project designer and contractor, or any combinations of the above.

All utility related formal requests for agreements, permits and occupancy applications must be in accordance with the applicable policies and procedures of Design Manual Part 5.

Authorization to perform preliminary and final utility engineering will be provided in writing by the Department.

Detail Task 1 - 2.10.8 - Utility Engineering

Department Details:

Prepare a Water Line Relocation Plan, as an ALSO plan, for the proposed relocation of the Bradford City Water Authority's (BCWA) water line. Revise the CADD file of the water line relocation provided by BCWA to meet Design Manual 3 standards. Cofferdam, utility trench and stream crossing details need to be provided on the Water Line Relocation Plan. Excavation quantity calculations of the stream crossing trench will be needed.

Approach:

Dewberry will prepare a Water Line Relocation Plan, to be incorporated into the contract plans as an ALSO plan, for the proposed relocation of Bradford City Water Authority's (BCWA) waterline at two locations within the project limits, including the stream crossing of Lewis Run on the upstream side of the SR 4001 bridge replacement. The plan will be prepared using information provided by BCWA's engineer.

Dewberry assumes the following work effort for this task:

- The ALSO plan will include 5 sheets: Title Sheet, General Notes, Details and Quantities, Plan Sheet and Profiles Sheet.
- Dewberry will provide the following details: sections for utility trench (roadside and across stream), cofferdam for trench across the stream, stream crossing
- Dewberry will coordinate details of the design with BCWA and the authority's engineer as necessary.

Consultant Hierarchy

Business Partner

DBE Type

Supervising BP

Dewberry-Goodkind, Inc.

No

Attachments

No records found.

You are currently logged in as **Rajvi B. Amin.**

[PennDOT Privacy Policy](#)