









2.10.7 - Right-of-Way Acquisition Services (District to perform Appraisal Tasks)

Guidance:

The Department's Right-of-Way Manual

Department Strike-Off Letters

Pennsylvania Eminent Domain Code

Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended.

Deviation from any of those standards must be approved in writing by the Department.

Scope:

Develop memos of all meetings and/or appropriate conversations, and provide the District with one (1) electronic copy.

Reports concerning the status of all claims will be furnished to the District Office weekly. Monthly status meetings will be held in the District Office.

One (1) set of reproducible drawings of the right-of-way plan will be provided by the Department to the Consultant. Any additional prints will be made by the Consultant, as necessary.

Use of Department approved forms is required in the completion of all tasks under this agreement.

Consultant is responsible for all aspects of Right-of-Way Project Management. This is defined as the task of directly managing all of the services described in WBS Code 2.10.7 with a goal of obtaining a final right-of-way clearance on time and within budget.

Unless otherwise directed, the Consultant will handle all contacts and all correspondence with the claimants from the initial notification through settlement or condemnation, including the preparation of all necessary forms and documents.

Consultant will pay for recording of all necessary claim associated documents (e.g., Deeds, Release of Liens, etc.), and will be reimbursed direct costs for these recordings.

In the event that the Department is notified by the Federal Highway Administration that a deficiency has been noted relating to any tasks (negotiation, appraisal, relocation assistance, property management, etc.) performed by the Consultant, the Department shall notify the Consultant, and the Consultant shall provide such information and take such action necessary to resolve the deficiency.

The appropriate Department representative must sign any correspondence that commits the Department to expend funds, such as offer letters and administrative settlement approvals.

Conduct any negotiations with Railroads in accordance with normal acquisition procedures; the Department will conduct any Public Utility Commission actions related to Railroad property. The Department will acquire any right-of-way required from a public utility or community facility.

Consultant will negotiate any parcels required for substitute right-of-way for utilities as requested in writing by the Department.

All work done by the Consultant shall be performed by qualified personnel experienced in performing their function in accordance with federally funded projects. The District Right-of-Way Administrators reserve

the right to approve all Consultant personnel employed to perform work under agreements in their respective Districts.

Coordinate all work through the Department's designated representative. This person shall normally be the District Right-of-Way Administrator or his/her designee.

Right-of-Way Office Access:

Upon request from a District Right-of-Way Administrator or designee, the Consultant may access the Right-of-Way (ROW) Office claim and project database application only for the Right-of-Way project assigned under an executed agreement. The information may be accessed only for the purpose of completing a transaction. Database information may not be published nor disclosed for any purpose.

The Department will not be liable for any damage to the Consultant's database software owned, leased or licensed by the Consultant in the event a computer virus or other malicious, mischievous, or destructive programming is determined to have originated from the Department, its agents, or employees.

The Consultant will furnish and assume the total costs of all software and hardware necessary to connect to ROW Office via internet services. Such software shall include any operating system and any software needed to access ROW Office. The Department reserves the right to approve all software and hardware as may be deemed necessary by the Department.

Consultant will procure and is responsible for all costs associated with data communications lines required to connect to internet services.

The Consultant will implement appropriate security measures to insure that only authorized employees of the Consultant will have access to and provide data into ROW Office and to assign only its current employees user identification codes issued by the Department. Immediately upon the employee's separation and/or dismissal, the Consultant will promptly notify the Department. The Consultant agrees that its employees may not share user identification codes and that it is liable for the data submitted by its assigned users and for the actions or omissions of its employees.

The Consultant will use the ROW Office database application to review the status of claims and maintain and update claim and project information promptly and accurately on behalf of the District Right-of-Way Administrator.

ROW Office is constantly available for on-line access except for system upgrades and scheduled network maintenance (barring unforeseen technical problems). The Department will provide Help Desk support to its users only during normal business hours of the Department.

#### **~~1. Relocation Assistance Plan/Problem Identification~~**

~~Conduct personal interviews with all claimants to be relocated, including business and residential, and prepare a Relocation Pre-Acquisition Survey and Report in accordance with the Department's Right-of-Way Manual. Identify specific relocation needs and suggested solutions, including "Housing of Last Resort", if applicable. Maintain an inventory of comparable~~

~~replacement housing and replacement sites. Each property requiring relocation assistance shall have 2 sets of digital color photos showing the four sides of the subject dwelling or business. The photos may be taken from diagonal views.~~

## ~~2. Appraisal Planning/Services~~

~~Note: Any individual performing appraisal tasks as identified in Pub 378 "The Right of Way Manual" Section 2.04 or preparing Facts & Data Books must be qualified and competent to perform such tasks. The qualifications for various appraisal tasks and specifications for such tasks are outlined in Pub 378, Sections 2.09, 2.11, 2.12, and 2.14; the individual is also bound by the competency rule of the Uniform Standards of Professional Appraisal Practice "USPAP".~~

~~Individuals performing appraisal tasks must be pre-qualified on PennDOT's current Invitation to Qualify "ITQ" Contract for Appraisal Services in Category 2.~~

~~Conflict of Interest No individual or firm will place themselves in a conflict of interest situation. Since some individuals are qualified under multiple Department Right of Way contracts, they will not appraise properties on a project where they are working as an acquisition consultant and vice versa. Any prior or subsequent involvement on a PennDOT project where they represent the property owner must be immediately disclosed, in writing, to the District Right of Way Administrator as per Pub 378, Section 2.09 F.~~

~~Review the project site and right of way plan with the District Chief Appraiser and the Central Office Review Appraiser to identify the valuation problems, determine the number and type of appraisal reports needed on each parcel, identify items pertinent to the valuation of each parcel and note any specific or unusual appraisal problems.~~

~~Obtain copies of all leases pertaining to the affected parcels.~~

~~Prepare and deliver to the District a complete appraisal problem analysis, Form RW 275 series, for each parcel or group of parcels to be on a particular appraisal contract. This analysis must be approved by the Department prior to soliciting bids from fee appraisers.~~

~~All fee appraisal contracts will be executed by the Department and not by the Consultant. All appraisals will be done by qualified, Department approved, certified appraisers. Appraisals are to be completed on Department forms in accordance with the Department's Right of Way Manual.~~

~~Depending upon plan availability, similarity of parcels and types of takings, and the time required to complete the appraisals, propose groupings of parcels to be included in individual fee appraiser contracts.~~

~~Prior to issuing a Notice to Proceed to appraiser(s), Consultant will prepare a Facts and Data Book and periodically update the book with current applicable sales information. The book and updates will be complete with digital color photos and three (3) copies with photos will be delivered to the District Right of Way Unit when solicitation of bids from fee appraisers begins.~~

~~The Facts and Data Book should have an adequate number of recent sales for each type of property to be appraised, i.e. vacant and improved residential, commercial, industrial, and~~

~~agricultural sites, etc. Each sales sheet will provide all pertinent information pertaining to that sale, including but not limited to information contained in market data sales sheets found in the appraisal report, Form RW-270A.~~

~~The sales search should first concentrate in the vicinity of the project and be expanded into comparable neighborhoods or areas in the county and/or surrounding counties if an adequate number of sales cannot be found in the vicinity of the project. Attempt to obtain comparable sales within the past two (2) years, if possible.~~

~~All appraisals will be reviewed and approved by the Department of Transportation, or its agent, not by the Consultant.~~

~~Obtain mailing addresses and prepare and mail Form RW-299, by certified mail, to all claimants prior to the appraiser contacting them for a property inspection.~~

### 3. Negotiation

Negotiate claims in accordance with the Department's Right-of-Way Manual, the Uniform Act, and "good faith negotiation" procedures. Recommend, in writing, Administrative Settlements to the District Right-of-Way Administrator or designee, and include justification to support the settlement.

When negotiations result in an amicable settlement or administrative settlement, prepare the documents necessary and secure signatures for processing a claim for payment to the property owner. Subject documents will be submitted to the District for review.

When negotiations result in condemnation, prepare documents necessary to request the declaration of taking, provide follow-up negotiations and prepare necessary documents and secure signatures for payment of Estimated Just Compensation, or prepare necessary documents for Deposit of Estimated Just Compensation into Court. Prepare the documents necessary and secure signatures to process claims for reimbursement of attorney, engineering and appraisal fees in accordance with the Department's Right-of-Way Manual.

Provide follow-up negotiations and litigation support as requested by the Department on a case-by-case basis. This includes any right-of-way service necessary to support litigation that may result during or after construction.

### 4. Title and Settlement Services

Obtain title searches prior to settlement or condemnation as required by the Department's Right-of-Way Manual. Assure satisfaction or release of all liens and other title encumbrances to the extent required by the Department.

Title services may be subcontracted on a fixed fee per parcel basis (as a non-professional service) to Title Companies or local attorneys. Consultant must comply with subcontracting requirements as referenced in Paragraph II-10 of the ITQ for Right-of-Way Services, Contract 359001 or any renewals thereof.

Coordinate the settlement on replacement dwellings, as necessary, with claimants and/or claimant's

attorney or representative. Deliver Replacement Housing Supplemental check(s) to settlement.

#### 5. Relocation Assistance and Payments

~~Provide relocation assistance and payment services in accordance with the Department's Right-of-Way Manual including any amendments. On a case-by-case basis, evaluate entitlements for all types of relocation assistance payments, including replacement housing supplemental payments, down payment and/or rent supplemental payments, moving payments, last resort housing plans, business relocation benefits, business reestablishment evaluations, and loss of tangible personal property evaluations.~~

~~Provide relocation advisory assistance services as appropriate. Prepare applications for relocation claim payments, review relocation payment claims, and submit claimant requests for appeals of eligibility or amount of relocation assistance payment to District for forwarding to the Chief of the Acquisition Unit, Central Office Utilities and Right-of-Way Section. Prepare the papers necessary and secure signatures for processing of all payments of relocation claims. Perform decent, safe, and sanitary inspections of replacement properties.~~

~~The Consultant will comply with the Department's Right-of-Way Manual and any future policy revisions, by letter or otherwise, on right-of-way claims involving the acquisition of businesses. This includes the preparation of a video of every business claim.~~

~~Secure business or off-premise Outdoor Advertising Device (OAD) moving cost estimates from reputable companies regularly engaged in moving that type of property or off-premise OAD. This includes the payment, by the Consultant, of any estimating fee as may be required by moving companies. Consultant will be reimbursed the direct costs for obtaining these moving cost estimates.~~

#### 6. Property Management

~~Prior to the acquisition of any building, prepare an inventory of improvements. Inspect properties after they have been vacated to verify that the improvements listed on the inventory remain in place and notify the Department of any missing items.~~

~~If directed by the District, upon vacation of any acquired building, verify that the utility services have all been discontinued and that the meters have been removed.~~

~~If necessary, coordinate the disposal of any marketable goods remaining in vacated properties with the concurrence of the District Right-of-Way Administrator and in compliance with the Department's Right-of-Way Manual provide all necessary coordination to conduct these activities.~~

~~Prior to the acquisition of any buildings, prepare the necessary estimates and bidding documents for boarding and sealing contracts in compliance with procedures outlined in Department's Right-of-Way Manual. If necessary, initiate all advertising and solicitation for the boarding and sealing contract. Conduct the Bid Opening and provide all necessary documentation. (The Department will execute the boarding and sealing contract). The Consultant must follow all requirements of the Commonwealth Procurement Code (62 Pa. C.S. §101 et seq) when performing bidding functions on behalf of the Department. Upon vacation of any acquired building, notify the boarding and sealing contractor of the need to board and seal the building within the number of specified days within the contract. At the request of the Department, initiate and prepare all necessary documents for contracting property maintenance post-acquisition, such as lawn care, shrub trimming, litter cleanup, and snow removal. At the request of the Department, initiate~~

~~and prepare all necessary documents for contracting the demolition or removal of structures.~~

~~Inspect acquired buildings weekly for any unauthorized entry, unsafe exterior conditions, or needed maintenance. When requested, provide the necessary coordination to obtain needed services. (Any required services will be placed under contract with the Department.)~~

#### 7. Other Services

Maintain a project site office within the project limits. If a suitable site office cannot be found within the project limits, the site will have to be approved by the Department. The site office must meet Americans With Disabilities Act requirements for accessibility. In addition to normal daily weekday working hours, the Consultant's staff must be available a minimum of two (2) nights per week and on Saturday. Suggested hours would be 5:00 p.m. until 8:00 p.m. week nights and 10:00 a.m. until 2:00 p.m. on Saturday. It is anticipated that the site office will be operational within thirty (30) days of the Notice to Proceed, or at a later date as directed by the Department. The Consultant shall be responsible for all expenses associated with maintaining an office, including but not limited to rent, utilities, and necessary equipment. The site office must be equipped with a telephone and answering machine and the phone number and hours must be displayed on an exterior view and communicated to claimants.

Provide any other right-of-way services as determined necessary by the Department and identified in the scope of work for services

**Pre-Qualified List of Right-of Way Consultants (Updated 06/16/11)**

<b>Consultant Name</b>	<b>Primary Contact</b>	<b>Address</b>	<b>Phone</b>
ARROW Land Solutions, LLC	Brenda Wiedman	961 Old 6th Avenue Road, Altoona, PA 16601-8881	(814) 944-8006
Cardno TBE d/b/a TBE Group, Inc.	Cheryl Brewer	230 Executive Drive, Suite 115, Cranberry Township, PA 16066	(866) 835-3636
Florida Acquisition & Appraisal, Inc.	Evan S. Miller	2109 E. Palm Avenue, Suite 104, Tampa, FL 33605	(813) 241-6354
Greenhorne & O'Mara	Robert Diehl	5000 Ritter Road, Mechanicsburg, PA 17055	(717) 691-3355
Highland Professional Consultants, Inc.	Faith A. Blair	6698 State Route 30, Jeannette, PA 15644	(724) 523-2845
Interstate Acquisition Services	Charles J. Brannigan	1100 Liberty Avenue, Suite E 205, Pittsburgh, PA 15222-4240	(412) 261-5677
Johnson, Mirmiran & Thompson	Bruce Anderson	220 St. Charles Way, Suite 200, York, PA 17402	(800) 266-5488
Keystone Acquisition Services, Corp.	Jay F. Broadbent	3200 McKnight East Drive, Suite 3204, Pittsburgh, PA 15237	(412) 364-8612
Orion Land Services, Inc.	Fred J. Brient	322 North Second Street, Apollo, PA 15613	(724) 478-1832
Post, Buckley, Schuh & Jernigan, Inc. dba PBS&J	John Purvis	400 Technology Drive, Suite 100, Canonsburg, PA 15317	(724) 514-9000
Right of Way Services, Inc.	Todd or Roger Carrier	400 Technology Drive, Suite 207, Canonsburg, PA 15317	(724) 514-8970
TranSystems Corporation dba TranSystems Corporation Consultants	William Pixley	220 St. Charles Way, Suite 150, York, PA 17402	(717) 854-3861
Herbert, Rowland & Grubic, Inc.	Stephen Fleming	369 East Park Drive, Harrisburg, PA 17111	(717) 564-1121
AECOM USA, INC.	Terrance C. Seighman	571 Clairton Blvd., Pleasant Hills, PA 15236-3809	(412) 650-3050
Erdman Anthony	Steven W. Doughty	One Sterling Place, 100 Sterling Parkway, Mechanicsburg, PA 17050	(717) 766-1741
MS Consultants, Inc.	Karl Nejak	333 Rouser Road, Second Floor, Coraopolis, PA 15108	(412) 264-8701
O.R. Colan Associates, LLC	Allen C. Biehl	22710 Fairview Center Drive, Fairview Park, OH 44126	(440) 827-6116
Century Engineering, Inc.	Troy M. Holloway	200 Airport Rd, Capital City Airport, New Cumberland, PA 17070	(717) 901-7055
H2 Engineering Services, Inc.	Robert J. Hendricks	6 Kacey Ct., Suite 102, Mechanicsburg, PA 17055	(717) 620-8488
Michael Baker Jr., Inc.	Bradley J. Heigel	4431 N. Front Street, Harrisburg, PA 17110	(717) 221-2001

Fax	Cell Phone	Email	Website
(814) 944-2082		<a href="mailto:bwiedman@arrowls.com">bwiedman@arrowls.com</a>	<a href="http://www.arrowlandsolutions.com">www.arrowlandsolutions.com</a>
(724) 776-4717	(706) 466-3652	<a href="mailto:cheryl.brewer@cardno.com">cheryl.brewer@cardno.com</a>	<a href="http://www.tbegroup.com">www.tbegroup.com</a>
(813) 241-6395		<a href="mailto:emiller@flaa.com">emiller@flaa.com</a>	<a href="http://www.flaa.com">www.flaa.com</a>
(717) 691-3366	(717) 798-5880	<a href="mailto:Rdiehl@G-and-O.com">Rdiehl@G-and-O.com</a>	<a href="http://www.g-and-o.com">www.g-and-o.com</a>
(724) 527-1934		<a href="mailto:fblair@highlandpci.com">fblair@highlandpci.com</a>	<a href="http://www.highlandpci.com">www.highlandpci.com</a>
(412) 261-9910		<a href="mailto:cbrannigan@iasrw.com">cbrannigan@iasrw.com</a>	<a href="http://www.IASRW.com">www.IASRW.com</a>
(717) 741-9100		<a href="mailto:banderson@jmt.com">banderson@jmt.com</a>	<a href="http://www.jmt.com">www.jmt.com</a>
(412) 364-8613	(412) 417-8312	<a href="mailto:jay@keystoneacquisitions.com">jay@keystoneacquisitions.com</a>	<a href="http://www.keystoneacquisitions.com">www.keystoneacquisitions.com</a>
(724) 478-1849		<a href="mailto:orionlandser@comcast.net">orionlandser@comcast.net</a>	<a href="http://www.orionlandservices.com">www.orionlandservices.com</a>
(724) 514-9090	(724) 747-3745	<a href="mailto:jwpurvis@pbsj.com">jwpurvis@pbsj.com</a>	<a href="http://www.pbsj.com">www.pbsj.com</a>
(724) 820-1277	(724) 350-2027	<a href="mailto:rcarrier@rows-inc.com">rcarrier@rows-inc.com</a>	<a href="http://www.rows-inc.com">www.rows-inc.com</a>
(814) 677-3274	(717) 891-9348	<a href="mailto:wrpixley@transystems.com">wrpixley@transystems.com</a>	<a href="http://www.transystems.com">www.transystems.com</a>
(717) 564-1158	(717) 443-2383	<a href="mailto:sfleming@hrq-inc.com">sfleming@hrq-inc.com</a>	<a href="http://www.hrq-inc.com">www.hrq-inc.com</a>
(412) 650-3554	(412) 350-8255	<a href="mailto:terry.seighman@aecom.com">terry.seighman@aecom.com</a>	<a href="http://www.aecom.com">www.aecom.com</a>
(717) 766-5516	(717) 877-1534	<a href="mailto:doughtysw@erdmananthony.com">doughtysw@erdmananthony.com</a>	<a href="http://www.erdmananthony.com">www.erdmananthony.com</a>
(412) 264-2076		<a href="mailto:knejak@msconsultants.com">knejak@msconsultants.com</a>	<a href="http://www.msconsultants.com">www.msconsultants.com</a>
(440) 827-6122		<a href="mailto:abiehl@orcolan.com">abiehl@orcolan.com</a>	<a href="http://www.orcolan.com">www.orcolan.com</a>
(717) 901-7059	(410) 409-7022	<a href="mailto:tholloway@centuryeng.com">tholloway@centuryeng.com</a>	<a href="http://www.centuryeng.com">www.centuryeng.com</a>
(717) 620-8489	(717) 512-7462	<a href="mailto:rjh@h2enginc.com">rjh@h2enginc.com</a>	<a href="http://www.h2enginc.com">www.h2enginc.com</a>
(717) 234-7618	(717) 480-3360	<a href="mailto:bheigel@mbakercorp.com">bheigel@mbakercorp.com</a>	<a href="http://www.mbakercorp.com">www.mbakercorp.com</a>







## DISCLOSURE OF LOBBYING ACTIVITIES

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352

(See reverse for public burden disclosure.)

<b>1. Type of Federal Action:</b> <input type="checkbox"/> a. contract <input type="checkbox"/> b. grant <input type="checkbox"/> c. cooperative agreement <input type="checkbox"/> d. loan <input type="checkbox"/> e. loan guarantee <input type="checkbox"/> f. loan insurance	<b>2. Status of Federal Action:</b> <input type="checkbox"/> a. bid/offer/application <input type="checkbox"/> b. initial award <input type="checkbox"/> c. post-award	<b>3. Report Type:</b> <input type="checkbox"/> a. initial filing <input type="checkbox"/> b. material change <b>For Material Change Only:</b> year _____ quarter _____ date of last report _____
<b>4. Name and Address of Reporting Entity:</b> <input type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier _____, <i>if known</i> :  Congressional District, <i>if known</i> : 4c	<b>5. If Reporting Entity in No. 4 is a Subawardee, Enter Name and Address of Prime:</b>  Congressional District, <i>if known</i> :	
<b>6. Federal Department/Agency:</b>	<b>7. Federal Program Name/Description:</b>  CFDA Number, <i>if applicable</i> : _____	
<b>8. Federal Action Number, if known:</b>	<b>9. Award Amount, if known:</b> \$ _____	
<b>10. a. Name and Address of Lobbying Registrant</b> <i>(if individual, last name, first name, MI):</i>	<b>b. Individuals Performing Services</b> <i>(including address if different from No. 10a)</i> <i>(last name, first name, MI):</i>	
<b>11.</b> Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.	Signature: _____ Print Name: _____ Title: _____ Telephone No.: _____ Date: _____	
<b>Federal Use Only:</b>		Authorized for Local Reproduction Standard Form LLL (Rev. 7-97)

## INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered Federal action.
2. Identify the status of the covered Federal action.
3. Identify the appropriate classification of this report. If this is a followup report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.
4. Enter the full name, address, city, State and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
5. If the organization filing the report in item 4 checks "Subawardee," then enter the full name, address, city, State and zip code of the prime Federal recipient. Include Congressional District, if known.
6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.
8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitation for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Include prefixes, e.g., "RFP-DE-90-001."
9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.
10. (a) Enter the full name, address, city, State and zip code of the lobbying registrant under the Lobbying Disclosure Act of 1995 engaged by the reporting entity identified in item 4 to influence the covered Federal action.  
  
(b) Enter the full names of the individual(s) performing services, and include full address if different from 10 (a). Enter Last Name, First Name, and Middle Initial (MI).
11. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB Control Number. The valid OMB control number for this information collection is OMB No. 0348-0046. Public reporting burden for this collection of information is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, DC 20503.

PENNDOT FORM EDD-VI

ENVIRONMENTAL DUE DILIGENCE (EDD) PHASE 1  
VISUAL INSPECTION FORM

DATE: \_\_\_\_\_

SR/SEC: \_\_\_\_\_

COUNTY: \_\_\_\_\_

SEGMENT: \_\_\_\_\_

ECMS  
Project#: \_\_\_\_\_

ACTIVITY: \_\_\_\_\_

Location: \_\_\_\_\_

**Visual Site Inspection (EDD-PHASE 1):**

- *Stressed Vegetation* Yes [ ] No [ ]
- *Staining on Soils* Yes [ ] No [ ]
- *Staining Along PennDOT ROW  
or on ROW Materials* Yes [ ] No [ ]
- *Detectable Odors* Yes [ ] No [ ]

Comments: Attached additional pages or information as necessary.

**Findings**

Check one:

- Due diligence inspection performed and no visual evidence of a spill or release in project ROW was detected.
- Due diligence inspection performed and evidence of a spill or release in project ROW was detected. Phase 2 documents attached.
- Due diligence not applicable for this project. No waste or fill.

SIGNATURE: \_\_\_\_\_

PRINTED NAME: \_\_\_\_\_

TITLE: \_\_\_\_\_

ORGANIZATION: \_\_\_\_\_

**\* FORM MUST BE MAINTAINED FOR A MINIMUM 5 YEARS IN THE PROJECT FILE\***

PENNDOT EDD-VII

CLEAN FILL ENVIRONMENTAL DUE DILIGENCE [EDD] PHASE 2

DATE : \_\_\_\_\_

SR/SEC : \_\_\_\_\_ ECMS PROJECT # : \_\_\_\_\_

SEGMENT : \_\_\_\_\_

COUNTY : \_\_\_\_\_

ACTIVITY : \_\_\_\_\_

LOCATION : \_\_\_\_\_

A Phase 1 EDD was conducted for the above project and has identified evidence of a potential spill or release of regulated substances to the material. A Phase 2 EDD was performed.

**Findings** Check all that apply:

- 1. Based on the results of the Phase 2 investigations, it has been determined that **no** spill or release has occurred.
- 2. Based on the results of the Phase 2 investigations, there is documented evidence that a spill or release has occurred. **MUST COMPLETE ITEM 3**
- 3. If Item 2 is checked, Item 3 must be completed: The materials were Collected and sampled, in accordance with Appendix A of the PADEP Management of Fill Guidance, and
  - All regulated substances analyzed were reported as non-detectable. Form FP-001 must be completed along with the laboratory data, and provided to the property owner of the fill receiving site. Attach documentation.
  - The concentration of regulated substances detected were below the levels indicated in Table FP-1a/1b. Form FP-001 must be completed along with the laboratory data, and provided to the property owner of the fill receiving site. Attach documentation.
  - The concentration of regulated substances detected exceeds the levels in Table FP-1a/1b, but are below the levels indicated in Table GP-1a/1b. **The material is Regulated Fill** and must be approval by the PENNDOT Project Manager for use. If approved, PADEP General Permit WMGR096 must be obtained.
  - The concentration of regulated substances detected exceeds the levels in Table GP-1a/1b. **The materials are a waste.** Manage in accordance with applicable PA Solid Waste Management Act waste regulations. Attach documentation.

SIGNATURE : \_\_\_\_\_

PRINTED NAME : \_\_\_\_\_

TITLE : \_\_\_\_\_

ORGANIZATION : \_\_\_\_\_

**ENVIRONMENTAL DUE DILIGENCE PHASE 2: CLEAN FILL DETERMINATION**

**NOTE: PERSONS INVOLVED IN PERFORMING EDD ACTIVITIES DO NOT NEED TO COMPLETE ALL STEPS OF THIS PROCESS. ONLY THOSE REQUIRED FOR PROPERLY CHARACTERIZING MATERIALS TO DETERMINE THEY ARE CLEAN FILL.**

**EDD Phase 2: STEP 1**

- **Property ownership and use histories (deed reviews) for evidence of potential releases of wastes or chemicals from operations along the PennDOT ROW:**

Land and Property Use and Ownership Types Found (Check All That Apply):

- *Public* [ ]
- *Private* [ ]
- *Agricultural* [ ]
- *Industrial* [ ]
- *Commercial* [ ]
- *Residential* [ ]
- *Unused* [ ]
- *Other* [ ]

(Specify) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- **Searching environmental databases to determine the existence of potential impacts from any types of waste sites or related activities that exist or may have existed within the vicinity of the PennDOT ROW: (See Appendix 1)**

Databases Searched (Check All That Apply):

- *PennDOT* [ ]
- *PA DEP* [ ]
- *US EPA* [ ]
- *Other* [ ]

(Specify) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ENVIRONMENTAL DUE DILIGENCE PHASE 2: CLEAN FILL DETERMINATION**

- **Conducting Interviews with All Relevant Parties to determine whether there had been any incidents that involved the release of substances directly to the PennDOT ROW:**

Interviews Conducted (Check All That Apply):

- *Former Property Owners* [ ]
- *Current Property Owners* [ ]
- *Former Land Owners* [ ]
- *Current Land Owners* [ ]
- *Fire Departments* [ ]
- *Hazardous Materials Teams* [ ]
- *Regulatory Agencies* [ ]

(Specify) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- **Examination of aerial photographs in order to determine all land uses within the vicinity of the ROW:**

- Aerial Photographs Evaluated Yes [ ] No [ ]; if “Yes”: refer to Appendix 1 for a Pennsylvania Department of Conservation and Natural Resources (PA DCNR) web site address for locating aerial photographs.

- **Examination of Sanborne or other fire insurance maps (*there is an additional cost for obtaining these*), in order to determine the existence of businesses that may have had any prior releases of **regulated substances** to the PennDOT ROW:**

- *Sanborne Fire Insurance Maps Examined* [ ]; refer to Appendix 1 for web site address and telephone number for obtaining these maps;
- *Alternate Fire Insurance Maps Examined* [ ]

(Specify) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**EDD Phase 2 STEP 2:**

- **Sampling and Analysis of PennDOT ROW Materials. If there is documented evidence of a spill or release, materials must be tested to determine if they are clean fill, **regulated fill, or** to characterize for proper waste disposal.**
- **Sampling and analysis should be conducted in accordance with Appendix A of the PA DEP Management of Fill Guidance: 258-2182-773 April 24, 2004.**

## ENVIRONMENTAL DUE DILIGENCE PHASE 2: CLEAN FILL DETERMINATION

### APPENDIX 1: LISTING OF WEB SITES AND RELATED CONTACTS FOR ENVIRONMENTAL DUE DILIGENCE DATABASE SEARCHES

#### Pennsylvania Department of Environmental Protection (PA DEP) -Related Sites

- ***Pennsylvania Municipal and Residual Waste Facilities*** (web link: [www.dep.state.pa.us/dep/deputate/airwaste/wm/mrw/Docs/Landfill\\_list.htm](http://www.dep.state.pa.us/dep/deputate/airwaste/wm/mrw/Docs/Landfill_list.htm)); (this website contains descriptions of all Pennsylvania landfills and incinerators (site name, permit number, host county, municipality, and contact person), all arranged by PA DEP region; for more information, click on either the facility name link (this leads to the PA DEP Environmental Facility Application and Compliance Tracking System (E-Facts) information about any specific facility) or contact person (e-mail) link).
- ***Pennsylvania Land Recycling and Environmental Remediation Standards Act (Act 2) Sites*** (web link: [www.pasitefinder.state.pa.us/Site\\_listing.asp](http://www.pasitefinder.state.pa.us/Site_listing.asp)); this website contains information on all Act 2 sites that have been completed to date and updates that are made to the website when needed; click on the “more details” box associated with each site listed to obtain an interactive “E-Map” location/link for any site selected along with pertinent site information).
- ***Pennsylvania Hazardous Sites Cleanup Act (HSCA) Sites*** (web link: [www.dep.state.pa.us/dep/deputate/airwaste/wm/hscp/docs/HSCA\\_Site\\_List.pdf](http://www.dep.state.pa.us/dep/deputate/airwaste/wm/hscp/docs/HSCA_Site_List.pdf)); this website brings up a list of Pennsylvania HSCA sites that are arranged by PA DEP Region and shows municipality, county, number and dates for HSCA responses (interim and remedial levels), in addition to the site status (complete, listed on Pennsylvania Priority List, or de-listed).
- ***Pennsylvania Storage Tank Release and Active Storage Tank Sites*** (web link for storage tank releases: [www.dep.state.pa.us/dep/deputate/airwaste/wm/Tanks/Document/tank\\_release.htm](http://www.dep.state.pa.us/dep/deputate/airwaste/wm/Tanks/Document/tank_release.htm)); this website contains a listing of all known storage tank incidents, and is arranged by PA DEP region (with each regional incident alphabetized by county); other details included are facility I. D. #, site name, address, city, county, incident description, confirmation date, type of incident (underground storage tank release (petroleum or hazardous material), or above-ground storage tank release; click on the “Tank Incidents” PDF or Adobe Acrobat Files to see the entire list of storage tank releases to date); web link for active storage tanks: [www.dep.state.pa.us/dep/deputate/airwaste/wm/tanks/storagetanks/tank\\_listings.htm](http://www.dep.state.pa.us/dep/deputate/airwaste/wm/tanks/storagetanks/tank_listings.htm); click on the PA DEP Regional links to obtain Excel spreadsheet lists of storage tanks; information similar to what can be found on the storage tank release sites (except releases) can be found on the active storage tanks list).

## ENVIRONMENTAL DUE DILIGENCE PHASE 2: CLEAN FILL DETERMINATION

### APPENDIX 1: LISTING OF WEB SITES AND RELATED CONTACTS FOR ENVIRONMENTAL DUE DILIGENCE DATABASE SEARCHES

#### United States Environmental Protection Agency (US EPA)-Related Sites

- ***Pennsylvania Comprehensive Environmental Response and Liability Act (CERCLA/Superfund) Sites*** (web link: [www.epa.gov/reg3hwmd/super/PA/index.htm](http://www.epa.gov/reg3hwmd/super/PA/index.htm)); this website contains information on all Pennsylvania Superfund sites, including name, address, city, county, zip code, US EPA I. D. number, and National Priority List (NPL) status; click on the site name to learn more about any Superfund site).
- ***Pennsylvania Resource Conservation and Recovery Act (RCRA) Facilities*** (web link: [www.epa.gov/reg3wcmd/ca/pa.htm](http://www.epa.gov/reg3wcmd/ca/pa.htm)); this website contains information for all Pennsylvania RCRA sites, including facility name (click on this for more details), US EPA I. D. number, location (click on this link to get a map showing the site in relation to nearby roadways), environmental indicators (human exposure, groundwater – click on either of these to get the documentation sheets for either or both), and clean up status (initiated, remedy selected, complete with or without controls, construction completed)).
- ***Toxic Release Inventories (TRI)*** (web link: [www.epa.gov/tri](http://www.epa.gov/tri)); this website is from the US EPA, and contains some background information about TRI is and how it is used; releases for specific areas can be found by entering a zip code on the title page; from here, the user can view the facilities that are part of the TRI for the zip code entered, and the extent of releases that have occurred over the years (starting with 1989, and continuing through 2001, the latest year for which TRI information is available); click on the name of any facility shown to obtain a detailed report about the releases and related activities associated with the facility (onsite, off-site, air emissions, water discharges, land disposal)).
- ***Comprehensive Federal and State Site Environmental Database (Enviro-Facts)*** (web link: [www.epa.gov/enviro/index\\_java.html](http://www.epa.gov/enviro/index_java.html)); this website contains information about virtually every type of environmental matter known, both in terms of facilities and the media affected by these facilities' collective activities; under the “**topics**” tab, click on the links related to “*waste*”, “*water*”, “*air*”, “*toxics*”, “*land*”, “*radiation*”, “*maps*”, and “*other*”, to determine the type of media information desired; under the “**advanced capabilities**” tab, click on the “*queries*”, “*maps*”, or “*reports*” links to locate more specific information; from here, the user will be led to a page where queries about any type of environmental site can be entered using a zip code, county or State abbreviation; click on the “*find it*” link to locate information about one or multiple environmental sites, or, to generate map locations for the any type of environmental site activity desired; the map is interactive, and the user can “*zoom in*” for closer details about the site; this database may include information on sites from the aforementioned Municipal and Residual Waste, Storage Tanks, RCRA, HSCA, CERCLA, Act 2, and TRI databases; sites with National Pollutant Discharge Elimination System (NPDES) and radiation-related permits also included in this database).

## ENVIRONMENTAL DUE DILIGENCE PHASE 2: CLEAN FILL DETERMINATION

### APPENDIX 1: LISTING OF WEB SITES AND RELATED CONTACTS FOR ENVIRONMENTAL DUE DILIGENCE DATABASE SEARCHES

#### Sites for Aerial Photographs and Fire Insurance Maps

- ***Aerial Photographs:*** Aerial photographs may be accessed via the Pennsylvania Department of Conservation and Natural Resources (PA DCNR) web site (web link: [www.dcnr.state.pa.us/topogeo/gismaps/aerials.aspx.htm](http://www.dcnr.state.pa.us/topogeo/gismaps/aerials.aspx.htm); click on the “Proceed to the new DCNR” link, then click on the “Aerial Photos” option; this will lead to a link for the U. S. Geological Survey’s Aerial Photo Finder; information can be sought, and site location maps can be generated by selecting the “zip code”, “populated place”, or “map location” options).
- ***Sanborne Fire Insurance Maps:*** These maps may be obtained from EDR Sanborne, Inc., at 1-800-352-0050, or at [www.edrnet.com](http://www.edrnet.com); click on the “Sanborne Maps” link, and then click on the phrase “Download Sample” to view an example of this map type. **There is an additional cost for obtaining these maps.**

PENNDOT FORM EDD-VI

ENVIRONMENTAL DUE DILIGENCE (EDD) PHASE 1  
VISUAL INSPECTION FORM

DATE: \_\_\_\_\_

SR/SEC: 739/452 COUNTY: Pike

SEGMENT: 0280/2914 to 0290/0556

ECMS Project#: 9419

ACTIVITY: Bridge Replacement

Location: \_\_\_\_\_

**Visual Site Inspection (EDD-PHASE 1):**

- Stressed Vegetation Yes  No
- Staining on Soils Yes  No
- Staining Along PennDOT ROW or on ROW Materials Yes  No
- Detectable Odors Yes  No

Comments: Attached additional pages or information as necessary.

**Findings**

Check one:

Due diligence inspection performed and no visual evidence of a spill or release in project ROW was detected.

Due diligence inspection performed and evidence of a spill or release in project ROW was detected. Phase 2 documents attached.

Due diligence not applicable for this project. No waste or fill.

SIGNATURE: THOMAS j RASKIEWICZ  
Digitally signed by THOMAS j RASKIEWICZ  
DN: cn=THOMAS j RASKIEWICZ, o, ou,  
email=TRASKIEWIC@PA.GOV, c=US  
Date: 2012.01.06 13:57:55 -05'00'

PRINTED NAME: Thomas J. Raskiewicz

TITLE: Design Waste Specialist

ORGANIZATION: PENNDOT District 4-0

PENNDOT EDD-VII

CLEAN FILL ENVIRONMENTAL DUE DILIGENCE [EDD] PHASE 2

DATE : \_\_\_\_\_

SR/SEC : \_\_\_\_\_ ECMS PROJECT # : \_\_\_\_\_

SEGMENT : \_\_\_\_\_

COUNTY : \_\_\_\_\_

ACTIVITY : \_\_\_\_\_

LOCATION : \_\_\_\_\_

A Phase 1 EDD was conducted for the above project and has identified evidence of a potential spill or release of regulated substances to the material. A Phase 2 EDD was performed.

**Findings** Check all that apply:

- 1. Based on the results of the Phase 2 investigations, it has been determined that **no** spill or release has occurred.
- 2. Based on the results of the Phase 2 investigations, there is documented evidence that a spill or release has occurred. **MUST COMPLETE ITEM 3**
- 3. If Item 2 is checked, Item 3 must be completed: The materials were Collected and sampled, in accordance with Appendix A of the PADEP Management of Fill Guidance, and
  - All regulated substances analyzed were reported as non-detectable. Form FP-001 must be completed along with the laboratory data, and provided to the property owner of the fill receiving site. Attach documentation.
  - The concentration of regulated substances detected were below the levels indicated in Table FP-1a/1b. Form FP-001 must be completed along with the laboratory data, and provided to the property owner of the fill receiving site. Attach documentation.
  - The concentration of regulated substances detected exceeds the levels in Table FP-1a/1b, but are below the levels indicated in Table GP-1a/1b. **The material is Regulated Fill** and must be approval by the PENNDOT Project Manager for use. If approved, PADEP General Permit WMGR096 must be obtained.
  - The concentration of regulated substances detected exceeds the levels in Table GP-1a/1b. **The materials are a waste.** Manage in accordance with applicable PA Solid Waste Management Act waste regulations. Attach documentation.

SIGNATURE : \_\_\_\_\_

PRINTED NAME : \_\_\_\_\_

TITLE : \_\_\_\_\_

ORGANIZATION : \_\_\_\_\_

ENVIRONMENTAL DUE DILIGENCE PHASE 2: CLEAN FILL DETERMINATION

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EDD Phase 2: STEP 1

- Property ownership and use histories (deed reviews) for evidence of potential releases of wastes or chemicals from operations along the PennDOT ROW:

Land and Property Use and Ownership Types Found (Check All That Apply):

- Public [ ]
Private [ ]
Agricultural [ ]
Industrial [ ]
Commercial [ ]
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Other [ ]

(Specify) \_\_\_\_\_
\_\_\_\_\_
\_\_\_\_\_

- Searching environmental databases to determine the existence of potential impacts from any types of waste sites or related activities that exist or may have existed within the vicinity of the PennDOT ROW: (See Appendix 1)

Databases Searched (Check All That Apply):

- PennDOT [ ]
PA DEP [ ]
US EPA [ ]
Other [ ]

(Specify) \_\_\_\_\_
\_\_\_\_\_
\_\_\_\_\_

**ENVIRONMENTAL DUE DILIGENCE PHASE 2: CLEAN FILL DETERMINATION**

- **Conducting Interviews with All Relevant Parties to determine whether there had been any incidents that involved the release of substances directly to the PennDOT ROW:**

Interviews Conducted (Check All That Apply):

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- *Current Property Owners* [ ]
- *Former Land Owners* [ ]
- *Current Land Owners* [ ]
- *Fire Departments* [ ]
- *Hazardous Materials Teams* [ ]
- *Regulatory Agencies* [ ]

(Specify) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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(Specify) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**EDD Phase 2 STEP 2:**

- **Sampling and Analysis of PennDOT ROW Materials. If there is documented evidence of a spill or release, materials must be tested to determine if they are clean fill, **regulated fill, or** to characterize for proper waste disposal.**
- **Sampling and analysis should be conducted in accordance with Appendix A of the PA DEP Management of Fill Guidance: 258-2182-773 April 24, 2004.**

## ENVIRONMENTAL DUE DILIGENCE PHASE 2: CLEAN FILL DETERMINATION

### APPENDIX 1: LISTING OF WEB SITES AND RELATED CONTACTS FOR ENVIRONMENTAL DUE DILIGENCE DATABASE SEARCHES

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**REQUIRED CONTRACT PROVISIONS  
FEDERAL-AID CONSTRUCTION CONTRACTS**

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

**ATTACHMENTS**

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

**I. GENERAL**

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

**II. NONDISCRIMINATION**

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

**1. Equal Employment Opportunity:** Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

**2. EEO Officer:** The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

**3. Dissemination of Policy:** All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

**4. Recruitment:** When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

**5. Personnel Actions:** Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

**6. Training and Promotion:**

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

**7. Unions:** If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

**8. Reasonable Accommodation for Applicants / Employees with Disabilities:** The contractor must be familiar

with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

**9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment:** The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

**10. Assurance Required by 49 CFR 26.13(b):**

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

**11. Records and Reports:** The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

### III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

### IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

#### 1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program. Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

## 2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

## 3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

#### 4. Apprentices and trainees

##### a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

##### b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

**5. Compliance with Copeland Act requirements.** The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

**6. Subcontracts.** The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

**7. Contract termination: debarment.** A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

**8. Compliance with Davis-Bacon and Related Act requirements.** All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

**9. Disputes concerning labor standards.** Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

**10. Certification of eligibility.**

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

**V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT**

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

**1. Overtime requirements.** No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

**2. Violation; liability for unpaid wages; liquidated damages.** In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

**3. Withholding for unpaid wages and liquidated damages.** The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

**4. Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

## VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is

evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

## VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

## VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

#### **IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.

2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

#### **X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION**

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

##### **1. Instructions for Certification – First Tier Participants:**

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

\* \* \* \* \*

## **2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:**

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

### **2. Instructions for Certification - Lower Tier Participants:**

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

\* \* \* \* \*

**Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:**

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

\* \* \* \* \*

**XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS  
PREFERENCE FOR APPALACHIAN DEVELOPMENT  
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS  
ROAD CONTRACTS**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

General Decision Number: PA120014 08/03/2012 PA14

Superseded General Decision Number: PA20100014

State: Pennsylvania

Construction Types: Heavy and Highway

Counties: Adams, Berks, Bradford, Carbon, Columbia, Cumberland, Dauphin, Juniata, Lackawanna, Lancaster, Lebanon, Lehigh, Luzerne, Lycoming, Monroe, Montour, Northampton, Northumberland, Perry, Pike, Schuylkill, Snyder, Sullivan, Susquehanna, Tioga, Union, Wayne, Wyoming and York Counties in Pennsylvania.

HEAVY AND HIGHWAY CONSTRUCTION PROJECTS (Excluding Sewer Grouting Projects and Excluding Sewage and Water Treatment Plant Projects)

Modification Number	Publication Date
0	01/06/2012
1	02/10/2012
2	02/24/2012
3	03/02/2012
4	04/13/2012
5	06/01/2012
6	06/15/2012
7	06/22/2012
8	07/13/2012
9	07/20/2012
10	08/03/2012

BOIL0013-003 01/01/2011

	Rates	Fringes
BOILERMAKER.....	\$ 37.35	30.02

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 CARP0076-011 05/01/2008

COLUMBIA, MONTOUR, NORTHUMBERLAND, SCHUYLKILL, SNYDER, UNION, the lower part of Luzerne county, Carbon County, Banks, Lusanna, Lehigh, Packer, Kidder townships, and part of Penn Forest

	Rates	Fringes
MILLWRIGHT.....	\$ 26.56	13.02

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 CARP0191-002 05/01/2008

YORK COUNTY

	Rates	Fringes
MILLWRIGHT.....	\$ 26.56	13.02

CARP0287-009 05/01/2008

ADAMS, CUMBERLAND, DAUPHIN, JUNIATA, LANCASTER, LEBANON, PERRY,  
NEW CUMBERLAND ARMY DEPOT AND HARRISBURG YORK STATE AIRPORT IN  
YORK COUNTY

	Rates	Fringes
MILLWRIGHT.....	\$ 26.56	13.02

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CARP0454-008 07/01/2011

Lehigh and Northampton Counties

	Rates	Fringes
PILEDRIVERMAN.....	\$ 38.15	28.27

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CARP0492-002 06/01/2010

BERKS COUNTY

	Rates	Fringes
MILLWRIGHT.....	\$ 26.71	11.02

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CARP0600-005 05/01/2011

LEHIGH AND NORTHAMPTON COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 33.44	20.17

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CARP1906-002 07/01/2011

CARBON (Townships: East Penn, Lower Towamensing, Mahoning,  
Franklin, Towamensing, Penn Forest. Everything south of Route  
903 and east to the Kidder Township Line. Boroughs: Hauto,  
Nesquehoning, Lansford, Summit Hill, Jim Thorpe, Weissport,  
Bownmanstown, Palmerton, Lehigh, and Parryville) , LEHIGH  
AND NORTHAMPTON COUNTIES

	Rates	Fringes
MILLWRIGHT.....	\$ 33.76	24.84

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CARP2274-002 05/01/2012

EXCEPT LEHIGH AND NORTHAMPTON COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 27.18	12.38

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CARP2274-003 05/01/2012

Adams, Berks, Bradford, Carbon, Columbia, Cumberland, Dauphin,

Juniata, Lackawanna, Lancaster, Lebanon, Luzerne, Lycoming, Monroe, Montour, Northumberland, Perry, Pike, Schuylkill, Snyder, Sullivan, Susquehanna, Tioga, Union, Wayne, Wyoming and York

	Rates	Fringes
PILEDRIVERMAN.....	\$ 27.18	12.38

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ELEC0126-001 05/28/2012

	Rates	Fringes
Line Construction: (ADAMS, CUMBERLAND, DAUPHIN, LANCASTER, LEBANON, JUNIATA, PERRY AND YORK COUNTIES)		
Groundman.....	\$ 22.98	26%+7.50
Lineman.....	\$ 38.30	26%+7.50
Truck Driver.....	\$ 24.89	26%+7.50
Winch Truck Operator.....	\$ 26.81	26%+7.50
Line Construction: (BERKS AND LEHIGH NORTHAMPTON COUNTIES)		
Groundman.....	\$ 22.98	26%+7.50
Lineman.....	\$ 38.30	26%+7.50
Truck Driver.....	\$ 24.89	26%+7.50
Winch Truck Operator.....	\$ 26.81	26%+7.50

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ELEC1319-001 09/05/2011

BRADFORD, CARBON, COLUMBIA, LACKAWANNA, LUZERNE, LYCOMING, MONROE, MONTOUR, NORTHUMBERLAND, PIKE, SCHUYLKILL, SNYDER, SULLIVAN, SUSQUEHANNA, TIOGA, UNION, WAYNE, AND WYOMING COUNTIES

	Rates	Fringes
Line Construction:		
Equipment Operators.....	\$ 45.45	14.40
Groundmen.....	\$ 28.46	10.13
Lineman.....	\$ 45.91	18.45
Truck Drivers.....	\$ 29.84	10.24

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\* ENGI0542-004 05/01/2012

	Rates	Fringes
Power equipment operators: (HIGHWAY CONSTRUCTION AND WATER LINES CONSTRUCTION (OFF PLANT SITE))		
GROUP 1.....	\$ 30.09	19.51
GROUP 1a.....	\$ 32.34	20.19
GROUP 2.....	\$ 28.91	19.17
GROUP 3.....	\$ 28.21	18.97
GROUP 4.....	\$ 27.75	18.85
GROUP 5.....	\$ 27.25	18.69
GROUP 6.....	\$ 30.33	19.57
GROUP 6a.....	\$ 32.58	20.23

## POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1 - Pile drivers, all types of cranes, all types of backhoes, draglines, keystones, all types of shovels, derricks, trench shovels, trenching machines, paver (blacktop and concrete), gradalls, all front end loaders, tandem scrapers, pippin types backhoes, boat captains, batch plant with mixer, drill self contained (drill-master type), CMI Autograde, milling machine, vemeer saw, conveyor loader (euclid type) scraper and tournapulls, bulldozers and tractors, concrete pumps, motor patrols, mechanic welders, log skidder, side boom, bobcat type (with attachments), boring machines including directional boring machines, chipper with boom, hydro ax, machines similar to the above including remote control equipment.

GROUP 1a: Crawler backhoes and Crawler gradalls over one cubic yard factory rating; Hydraulic backhoes over one cubic yard factory rating; All types of cranes 15 ton and over factory rating; Single person operation truck cranes 15 ton and over factory rating; Cherry picker type machinery and equipment 15 ton and over factory rating; Machines similar to above, including remote control equipment; Equipment in this Wage Group that does not require an oiler.

GROUP 2 - Spreaders, asphalt plant engineers, rollers (high grade finishing), machine similar to above, including remote control equipment, and forklifts 20ft and over.

GROUP 3 - Welding machine, well points, compressors, pump heaters, farm tractors, form line graders, ditch witch type trencher, road finishing machines, concrete breaking machines, rollers, miscellaneous equipment operator, seaman pulverizing mixer, power broom, seeding spreader, tireman - (for power equipment ) conveyors, loaders other than EUC type, conveyors, driller second class, machines similar to the above including remote control equipment, and forklift under 20 ft.

GROUP 4 - Fireman and grease truck

GROUP 5 - Oilers and deck hands

GROUP 6 - All machines with booms (including jibs, masts, leads, etc.) 100 ft. and over.

GROUP 6a: All machines with Booms (including Jibs, Masts, Leads, etc.) 100 feet 15 ton and over factory rating; Machines similar to above, including remote control equipment; Equipment in this Wage Group that does not require an oiler.

\*\*\*TOXIC/HAZARDOUS WAST REMOVAL\*\*\*

Add 20 per cent to basic hourly rate for all classifications

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\* ENGI0542-022 05/01/2012

	Rates	Fringes
Power equipment operators: (HEAVY CONSTRUCTION:)		
GROUP 1.....	\$ 32.06	20.10+A
GROUP 1a.....	\$ 34.31	20.76+A
GROUP 2.....	\$ 31.77	20.02+A
GROUP 2a.....	\$ 34.02	20.69+A
GROUP 3.....	\$ 28.85	19.16+A
GROUP 4.....	\$ 27.71	18.83+A
GROUP 5.....	\$ 27.26	18.70+A
GROUP 6.....	\$ 26.39	18.43+A
HEAVY CONSTRUCTION:		

## FOOTNOTE:

A: PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, the employee works the day before and the day after the holiday.

## \*\*\*TOXIC/HAZARDOUS WASTE REMOVAL\*\*\*

Add 20 per cent to basic hourly rate for all classifications

## POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Machines doing hook work, any machine handling machinery, cable spinning machines, helicopters, machines similar to the above, including remote control equipment, all types of cranes, cableways, and draglines.

GROUP 1a: Machines doing hook work; Machines handling machinery; All types of cranes 15 ton and over factory rating; Cable ways; Draglines 15 ton and over factory rating; High Rail/Burro Crane 15 ton and over factory rating; Rail Loader (Winch Boom Type) 15 ton and over factory rating; Machines similar to above, including remote control equipment; Equipment in this Wage Group that does not require an oiler.

GROUP 2: Backhoes, keystones, shovels, derricks, trench shovels, trenching machines, hoist with two towers, pavers 21E and over, overhead cranes, building hoists (double drum) gradalls, mucking machines in tunnels, front end loaders, tandem scrapers, pippin type backhoes, boat captains, batch plant operators concrete drills, self-contained rotary drills, fork lifts, 20ft, lift and over, scrapers, tournapulls, spreaders, bulldozers and tractors, rollers (high grade finishing), mechanic-welder, motor patrols, concrete pumps, grease truck, bob cat type (all attachments), boring machines including directional boring machines, hydro ax, side boom, vermeer saw, chipper with boom, machines similar to the above including remote control equipment

GROUP 2a: Crawler backhoes and crawler gradalls over one cubic yard factory rating; Hydraulic backhoes over one cubic yard factory rating; Equipment 15 ton and over factory rating; Machines similar to above, including remote

control equipment; Equipment in this Wage Group that does not require an oiler.

GROUP 3: Conveyors, building hoist (single drum), high or low pressure boilers, drill operators, well drillers, asphalt plant engineers, ditch witch type trencher, second class driller, forklift truck under 20ft. lift, stump grinder, tireman (for power equipment), machines similar to above including remote control equipment.

GROUP 4: Welding machines, well points, compressors, pumps, heaters, farm tractors, form line graders, road finishing machines, concrete breaking machines, rollers, seaman pulverizing mixer, power boom, seeding spreader, chipper without boom, machines similar to the above including remote control equipment.

GROUP 5: Fireman.

GROUP 6: Oilers and deck hands (personnel boats).

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IRON0036-002 07/01/2012

CARBON, LEHIGH (Except Fogelsville), NORTHAMPTON AND MONROE (Except Tobyhanna Army Depot)

	Rates	Fringes
Ironworkers:		
Projects Over 25 Million		
Dollars.....	\$ 33.55	24.00
Projects Under 25 Million		
Dollars.....	\$ 33.05	24.00

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IRON0404-006 07/01/2011

ADAMS, CUMBERLAND, DAUPHIN, LEBANON (Western 3/4), LANCASTER (Western part), LYCOMING, MONTOUR, NORTHUMBERLAND, JUNIATA, PERRY, SCHUYLKILL (Western tip to include the twps. of Fearnot, Good Spring, Hegins, Jolett, Klingerstown, Muir, Pittman Haas, Rough and Ready, Sacramento, Spring Glen, Suedberg, Tower City, and Valley View), SNYDER, UNION, AND YORK COUNTIES

	Rates	Fringes
Ironworkers:.....	\$ 29.02	24.05

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\* IRON0420-006 07/01/2012

BERKS, LANCASTER (Eastern Part), LEBANON (Eastern 1/4), LEHIGH (Fogelsville), AND SCHUYLKILL (Remainder) COUNTIES

	Rates	Fringes
Ironworkers:		
Projects less than		
\$200,000,000.....	\$ 30.00	23.00

STRUCTURAL, ORNAMENTAL,  
 AND REINFORCING: Projects  
 \$200,000,000 and greater,  
 (all work).....\$ 31.00 23.00

-----  
 IRON0489-002 07/01/2010

BRADFORD, COLUMBIA, LACKAWANNA, LUZERNE, MONROE (Tobyhanna  
 Depot only), PIKE, SULLIVAN, TIOGA, SUSQUEHANNA, WAYNE,  
 WYOMING, CARBON (Northern tip - McAdoo), LYCOMING (Southern tip  
 - Hughsville)

	Rates	Fringes
Ironworkers:		
Structural and Ornamental...	\$ 30.82	24.80

-----  
 LABO0158-001 05/01/2012

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 17.71	13.39
GROUP 2.....	\$ 24.33	13.39
GROUP 3.....	\$ 21.32	13.39
GROUP 4.....	\$ 21.67	13.39
GROUP 5.....	\$ 22.34	13.39
GROUP 6.....	\$ 21.76	13.39
GROUP 7.....	\$ 22.05	13.39
GROUP 8.....	\$ 22.53	13.39

LABORERS CLASSIFICATIONS

GROUP 1: Flag person

GROUP 2: Hazardous/Toxic/Asbestos Waste Handler, Lead Paint  
 Handler

GROUP 3: concrete pitman, puddlers, highway guide rail right  
 of way and property fence slab reinforcement placers,  
 Laborers, landscaper, seeders, planters, magazine tenders,  
 laser beam men for pipe laying and paving machines,,  
 railroad trackman, signalman, asphalt rakers, asphalt  
 tamper, lute or screed man, pneumatic and electric tool  
 operators, jackmammers, paving breakers, concrete saws,  
 whacker vibrator, chainsaw, highway concrete block layers,  
 sheet hammer, pipe layers, Walk Behind Rollers, Walk Behind  
 Trencher

GROUP 4: Caisson-open air below 8 feet, cofferdam open air  
 below 8 feet where excavations for circular caissons and  
 cofferdams 8 ft and below level of natural grade adjacent  
 to starting point, form setters (road) wagon drill diamond  
 point drill, gunite nozzle operators, walk behind rollers  
 and concrete rubbers, blaster.

GROUP 5: Form Setter, Reinforced Steel Placer, Bonding  
 Aligning and Securing and Burning and welding in  
 Conjunction wth Rebar, and Concrete Surfacer.

FREE AIR TUNNELS AND ROCK SHAFTS

GROUP 6: Outside labers in conjunction with tunnels and rock shafts

GROUP 7: Chuck tenders, muckers, nippers, miners, inside laborers

GROUP 8: Miners, drillers, blasters, pneumatic shield operators, lining, spotting and timber workmen, rebar steel placer, bonding and securing, welders, and concrete surfacers

-----  
 PAIN0021-026 05/01/2010

ADAMS, CUMBERLAND, DAUPHIN, LANCASTER, PERRY, AND YORK COUNTIES

	Rates	Fringes
Painters:		
Bridge.....	\$ 28.45	9.60
Brush.....	\$ 22.57	9.60
Spray, Sandblast.....	\$ 23.57	9.60

-----  
 PAIN0057-021 06/01/2012

JUNIATA COUNTY

	Rates	Fringes
Painters: (Commercial)		
Brush and Roller.....	\$ 26.25	14.35
Industrial Brush & Roller...	\$ 29.60	14.35
Spray.....	\$ 26.25	14.35
Painters: (Industrial)		
Bridge.....	\$ 31.70	14.35
Brush and Roller.....	\$ 26.25	14.35
Spray.....	\$ 26.25	14.35

-----  
 PAIN1021-001 05/01/2009

BERKS, CARBON, LEBANON, LEHIGH, NORTHAMPTON, AND MONROE COUNTIES

	Rates	Fringes
Painters:		
Bridge; Brush, Roller.....	\$ 25.60	12.30
Bridge; Spray.....	\$ 26.60	12.30
Brush and Roller.....	\$ 24.75	12.30
Spray and Sandblast.....	\$ 25.75	12.30

-----  
 PAIN1021-002 05/01/2009

BRADFORD, COLUMBIA, LACKWANNA, LUZERNE, LYCOMING, MONTOUR, NORTHUMBERLAND, PIKE, SCHUYLKILL, SNYDER, SULLIVAN, SUSQUEHANNA, TIOGA, UNION, WAYNE, WYOMING COUNTIES

Rates	Fringes
-------	---------

## Painters:

Bridge; Brush, Roller.....	\$ 25.60	12.05
Bridge; Spray.....	\$ 26.60	12.05
Brush and roller.....	\$ 22.75	12.05
Spray, Sandblast.....	\$ 23.75	12.05

-----  
PLAS0592-004 06/01/2012

MONROE COUNTY; (EXCEPT TOBYHANNA DEPOT)

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 30.38	9.10

-----  
PLAS0592-005 06/01/2012

COLUMBIA COUNTY

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 30.38	9.10

-----  
PLAS0592-017 05/01/2011

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER BERKS (Northeastern part lying North of a line starting from the Southern boundary line of Lehigh County continuing through Huffs Church, Fredericksville, Dryville, Lyon Station, Kutztown, Krumsville, and Stoney run in Berks County to the Lehigh County line), CARBON, LEHIGH, NORTHAMPTON (Northwest part including the towns of Walnutport, Bath, and Northampton) COUNTIES.....	\$ 26.00	18.15

-----  
PLAS0592-018 05/01/2009

	Rates	Fringes
Cement Mason/Concrete Finisher Adams, Lancaster, and York Counties.....	\$ 25.35	15.05
PLASTERER Adams, Berks (Portions of), Lancaster, and Lebanon Counties.....	\$ 23.70	12.96

-----  
PLAS9592-002 05/01/2000

MONROE COUNTY (TOBYHANNA ARMY DEPOT)

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 21.88	4.05

-----  
 TEAM0229-003 05/01/2012

	Rates	Fringes
TRUCK DRIVER (ADAMS, BERKS, CARBON, COLUMBIA, CUMBERLAND, DAUPHIN, JUNIATA, LACKAWANA, LANCASTER, LEBANON, LEHIGH, LUZERNE, LYCOMING, MONROE, MONTOUR, NORTHAMPTON, NORTHUMBERLAND, PERRY, PIKE, SCHUYKILL, SNYDER, SULLIVAN, SUSQUEHANNA, UNION, WAYNE, WYOMING, AND YORK COUNTIES)		
GROUP 1.....	\$ 30.98	0.00
GROUP 2.....	\$ 31.05	0.00
GROUP 3.....	\$ 31.54	0.00
Truck drivers: (BRADFORD AND TIOGA COUNTIES)		
GROUP 1.....	\$ 19.78	11.20
GROUP 2.....	\$ 19.85	11.20
GROUP 3.....	\$ 20.34	11.20

#### TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Flat Bed Truck (Single-Axle), Dump Trucks (Under 10 Yds Single Axle), Stake Body Trck (Single Axle), Dumpster (Single Axle)

GROUP 2: Dump Truck (Over 10 Yds), Asphalt Distributors, Transit Mix (Under 5 Yds), Transit Mix (Over 5 Yds.), Flat or Stake Body (Tandem), Fuel Truck A-Frame/Winch Trucks, Dry Batch Truck, Truck Mounted Sweeper and Vac Trucks, Buses, Dumpster (Tandem)

GROUP 3: Euclid-Type, Off Highway Equipment-Back or Double Bottom Dump Trucks (Over 20 Tons), Straddle Trucks, Pusher, Articulate Dumped Trucks, Low Boy Trailers, Semi Trailers

Water Tank, Sprinkler Trucks, Winch Trucks and Fuel Trucks shall be governed by the appropriate classification as listed above.

-----  
 WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

=====

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

-----

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is union or non-union.

#### Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters, PLUM, indicate the international union and the four-digit number, 0198, that follows indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rate.

#### Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union rates, LA indicates the State of Louisiana; 2004 is the year of the survey; and 007 is an internal number used in producing the wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.

Survey wage rates will remain in effect and will not change until a new survey is conducted.

-----

#### WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

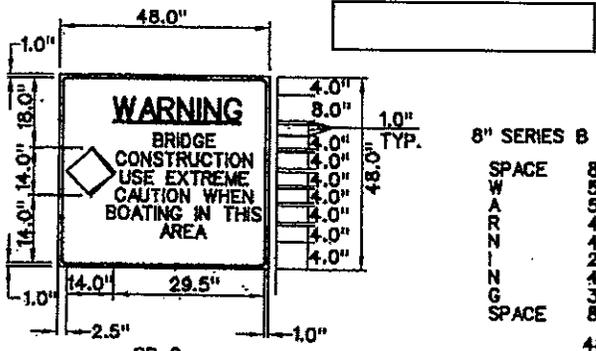
3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====

END OF GENERAL DECISION



8" SERIES B CAPITOLS

SPACE	8.25
W	5.4
A	5.5
R	4.9
N	4.9
I	2.5
N	4.9
G	3.4
SPACE	8.25

2" ORANGE BORDER WITH 2" RADIUS  
 BLACK LEGEND ON WHITE BACKGROUND  
 2" ORANGE DIAMOND, AND  
 1" ORANGE UNDERLINE

SP 2  
48" x 48"

SPACE	23.85
B	2.4
R	2.4
I	1.3
D	2.3
D	2.4
S	1.5
SPACE	11.85
	48.0"

SPACE	16.85
C	2.3
O	2.8
N	2.4
S	2.4
T	2.3
R	2.1
U	2.4
C	2.4
T	2.1
R	2.1
U	1.3
C	2.6
I	1.7
O	4.85
N	
SPACE	4.85

SPACE	18.3
U	2.4
S	2.4
E	1.5
E	2.0
SPACE	2.1
X	2.2
T	2.1
R	2.4
E	2.1
M	2.7
E	1.5
SPACE	6.3
	48.0"

4" SERIES B CAPITOLS

SPACE	17.15
C	2.1
A	2.7
U	2.3
T	2.1
I	1.3
O	2.8
N	1.7
SPACE	2.0
W	3.1
H	2.4
E	2.1
N	1.7
SPACE	4.75
	48.0"

SPACE	15.5
B	2.3
O	2.4
A	2.3
T	2.1
I	1.3
N	2.4
G	1.7
SPACE	2.0
I	1.3
N	1.7
SPACE	1.7
T	2.0
H	2.1
I	2.4
S	1.3
SPACE	1.7
	3.5
	48.0"

SPACE	25.45
A	2.7
R	2.4
E	1.9
A	2.1
SPACE	13.45
	48.0"

**SPECIAL SIGN - SP 2**

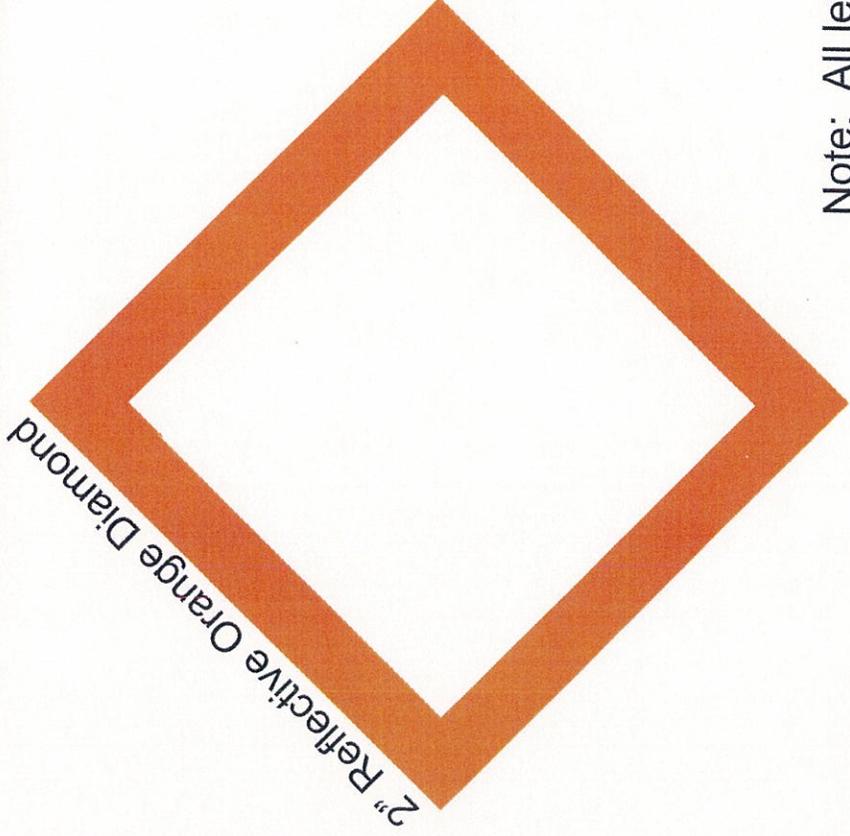
NOTE: TO BE PLACED AS DIRECTED.  
 SIGNS TO BE MOUNTED ON TYPE #1 BARRICADE  
 UNLESS OTHERWISE NOTED OR APPROVED BY  
 THE DEPARTMENT INSPECTOR IN CHARGE.

Start border 1" from edge of sign

2" Reflective Orange Border

# WARNING

1" Reflective Line Orange



**BRIDGE  
CONSTRUCTION  
USE EXTREME  
CAUTION WHEN  
BOATING IN THIS  
AREA**

Note: All letters (black) and in proportion to size of sign

**CERTIFICATE OF NON-AFFILIATION**

**If any waste is to be disposed of in Ohio, or if the Contractor chooses to dispose of any waste material in Ohio, the Contractor shall not have any affiliation with the waste transporter or with the Ohio disposal facility. The Contractor, by executing this proposal/contract, certifies that it is not in any way affiliated with any transporters of any waste or with the waste disposal site for any waste to be disposed of in Ohio under this contract.**

\_\_\_\_\_  
Contractor Signature

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Dated

**Bridge / Structures Related Effective Policy Letters  
For Contractor's Alternate Designs**

In addition to applicable portions of Design Manual Part 4, Pub 408, BC and BD standards, and AASHTO Bridge Specifications all applicable portions of the following design policy (strike-off) letters will apply for alternate designs developed by the contractor. These policy letters cover a variety of issues, concepts, and specifications. Unless specifically permitted by the Alternate Specifications Part A or Part B, the contractor is not permitted to utilize new concepts.

Number	Date	Subject
431-04-01	1/13/04	Quality Control of Design Submissions
431-06-01	1/24/06	Moratorium on Non-Composite Adjacent Prestressed Concrete Box Beam Bridges
431-09-14	12/2/09	Publication 15M, Design Manual Part 4 Change No. 1
431-10-12	8/29/10	Bridge Design Standards, BD-600M Series (Pub. 218M): September 2010 Edition
431-10-13	11/16/10	Bridge Construction Standards, BC-700M Series (Pub. 219M): October 2010 Edition
431-11-03	4/4/11	Publication 218M, BD-628M Modifications to Approach Slab Joints and Waterproofing Details Implementation into Active Projects in Construction
431-11-06	7/13/11	Modification to Publication 15M, Design Manual Part 4 Implementation Measures to Mitigate Corrosion Of Substructure J-Bar Reinforcement
431-11-08	7/29/11	Publication 15M, Design Manual Part 4 Addition of Section B 2.9P and Quality Assurance Form D-519 to Design Manual Part 4 for Construction Loading on Bridges
431-11-09	8/26/11	Publication 15M, Design Manual Part 4 Revision of Appendix J - Approved Commercially Available or Consultant - Developed Software
431-11-10	12/21/11	Summary of New Bridge and Structure Products
431-12-01	1/20/12	Publication 219M, BC-799M - Mechanically Stabilized Earth (MSE) Retaining Walls - Modifications to Drainage Pipe Requirements for 100-Year Design Life and Implementation into Active Projects
431-12-02	2/13/12	Implementation of AAAP Cement Concrete

# Steel Escalation Option

The undersigned hereby certifies that he/she is authorized to make a decision, on behalf of the Bidder, regarding application of the provisions of the Standard Special Provision entitled "Price Adjustment for Steel Cost Fluctuations" to the following project:

ECMS Project No. \_\_\_\_\_ S.R. \_\_\_\_\_, Section \_\_\_\_\_ Letting Date \_\_\_\_\_

SSP SUBSECTION	CATEGORY NAME	OPTION-IN*	OPTION-OUT**
4.a	Guide Rail and Metal Median Barrier	<input type="checkbox"/>	<input type="checkbox"/>
4.b	Reinforcement Bars	<input type="checkbox"/>	<input type="checkbox"/>
4.c	Piles	<input type="checkbox"/>	<input type="checkbox"/>
4.d	Steel Sign Structure(s)	<input type="checkbox"/>	<input type="checkbox"/>
4.e	Fabricated Structural Steel	<input type="checkbox"/>	<input type="checkbox"/>
4.f	Precast Reinforced Concrete Box Culvert(s) / Prestressed Concrete Bridge Beam(s)	<input type="checkbox"/>	<input type="checkbox"/>

\* Checking here **elects** the option to apply the provisions of the SSP entitled "Price Adjustment for Steel Cost Fluctuations" to the steel used in applicable materials placed as part of the work items in the indicated category.

\*\* Checking here **declines** the option to apply the provisions of the SSP entitled "Price Adjustment for Steel Cost Fluctuations" to the steel used in applicable materials placed as part of the work items in the indicated category.

\_\_\_\_\_  
CONTRACTOR NAME

**X**  
\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
PRINTED NAME

\_\_\_\_\_  
DATE

The apparent low bidder is required to submit this form via fax to (717) 705-1504 by 3:00 pm prevailing local time within 7 calendar days after the bid opening. When the seventh calendar day after the bid opening falls on a day PennDOT offices are closed, submit this form via fax by 3:00 pm prevailing local time on the next business day.

If a properly completed form is not provided by the apparent low bidder within the time specified, the Department will consider the option to apply the price adjustment provisions to the project to be declined (i.e. Option-OUT will be selected for the project). If the form, when provided within the time specified, has been completed such that the Department is unable to ascertain the bidder's intention with regard to the inclusion of any one of the applicable steel product categories, the Department will consider the option to apply the price adjustment provisions to that product category to be declined (i.e. Option-OUT will be selected for the category). No further opportunity to elect steel escalation for the project or an individual steel product category will be made available to the bidder.

M-937RO (3-09)



**ROUTE/BRIDGE RESTRICTION OPENING**  
Construction, Maintenance, Bridge and Highway Occupancy Unit(s) must notify the District Permit Office **5 "WORKING" days** (excluding holidays) before opening restricted area to oversize/overweight vehicles.

PLEASE PRINT - COMPLETE APPLICABLE BLANKS

Date Prepared: \_\_\_\_\_ Prepared By: \_\_\_\_\_

Opening Type:  Route  Bridge  Maintenance Project  HOP  Other \_\_\_\_\_

Origin County: \_\_\_\_\_ Origin Town: \_\_\_\_\_

Destination County: \_\_\_\_\_ Destination Town: \_\_\_\_\_

Effective Opening Date: \_\_\_\_\_

State Route: \_\_\_\_\_ Travel Direction:  North  South  East  West

Starting Intersection: \_\_\_\_\_ Segment: \_\_\_\_\_ Offset: \_\_\_\_\_

Ending Intersection: \_\_\_\_\_ Segment: \_\_\_\_\_ Offset: \_\_\_\_\_

**Complete this section if: (1) bi-directional restriction; (2) divided highway; (3) coincident SRs (e.g., 11/15, 22/322):**

State Route: \_\_\_\_\_ Travel Direction:  North  South  East  West

Starting Intersection: \_\_\_\_\_ Segment: \_\_\_\_\_ Offset: \_\_\_\_\_

Ending Intersection: \_\_\_\_\_ Segment: \_\_\_\_\_ Offset: \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DISTRICT PERMIT OFFICE USE ONLY

Date Received in Permit Office:	Canned Route#(s): _____
Received and Processed by:	Deactivated on: _____
Miscellaneous Restriction ID:# _____ # _____	
Administrative Message#: _____ re-versioned with Opening Notice on: _____	
Administrative Message#: _____ re-versioned with Opening Notice on: _____	

M-937R (8-09)



## ROUTE/BRIDGE RESTRICTION

Construction, Maintenance, Bridge and Highway Occupancy Unit(s) must notify the District Permit Office **10 "WORKING" days** (excluding holidays) before prohibiting oversized/overweight vehicles from traveling through restricted area.

PLEASE PRINT - COMPLETE APPLICABLE BLANKS

Date Prepared: \_\_\_\_\_ Prepared By: \_\_\_\_\_

Contractor Name: \_\_\_\_\_ Phone #: \_\_\_\_\_

Restriction Type:  Route  Bridge  Maintenance Project  HOP  Other \_\_\_\_\_

Origin County: \_\_\_\_\_ Origin Town: \_\_\_\_\_

Destination County: \_\_\_\_\_ Destination Town: \_\_\_\_\_

Start Date: \_\_\_\_\_ Tentative End Date: \_\_\_\_\_

State Route: \_\_\_\_\_ Travel Direction:  North  South  East  West

Starting Intersection: \_\_\_\_\_ Segment: \_\_\_\_\_ Offset: \_\_\_\_\_

Ending Intersection: \_\_\_\_\_ Segment: \_\_\_\_\_ Offset: \_\_\_\_\_

**Complete this section if: (1) bi-directional restriction; (2) divided highway; (3) coincident SRs (e.g., 11/15, 22/322):**

State Route: \_\_\_\_\_ Travel Direction:  North  South  East  West

Starting Intersection: \_\_\_\_\_ Segment: \_\_\_\_\_ Offset: \_\_\_\_\_

Ending Intersection: \_\_\_\_\_ Segment: \_\_\_\_\_ Offset: \_\_\_\_\_

### Project Restriction Details

Maximum Length: \_\_\_\_\_ FT. \_\_\_\_\_ IN.      Maximum Width: \_\_\_\_\_ FT. \_\_\_\_\_ IN.

Maximum Height: \_\_\_\_\_ FT. \_\_\_\_\_ IN.      Maximum Gross Weight: \_\_\_\_\_ LBS.

Road/Bridge Closed:  Yes  No

"Oversize Vehicles Prohibited (R14-16-1)" Sign(s) placed in advance of Project:  Yes  No

Suggested detour routing for permitted loads:

- Northbound:
- Southbound:
- Eastbound:
- Westbound:

### District Permit Office Use Only

Date Received in Permit Office:	Miscellaneous Restriction ID(s): # _____ # _____
Received and Processed by:	Canned Route(s): # _____ # _____
	Administrative Message(s): # _____ # _____

**FOUNDATION GUIDANCE REPORT**

**FOR**

**S.R. 0739, SECTION 452**

**SEGMENT 0290, OFFSET 0000**

**STATION 793+77**

**Over**

**SHOHOLA CREEK**

**IN**

**BLOOMING GROVE TOWNSHIP**

**PIKE COUNTY**

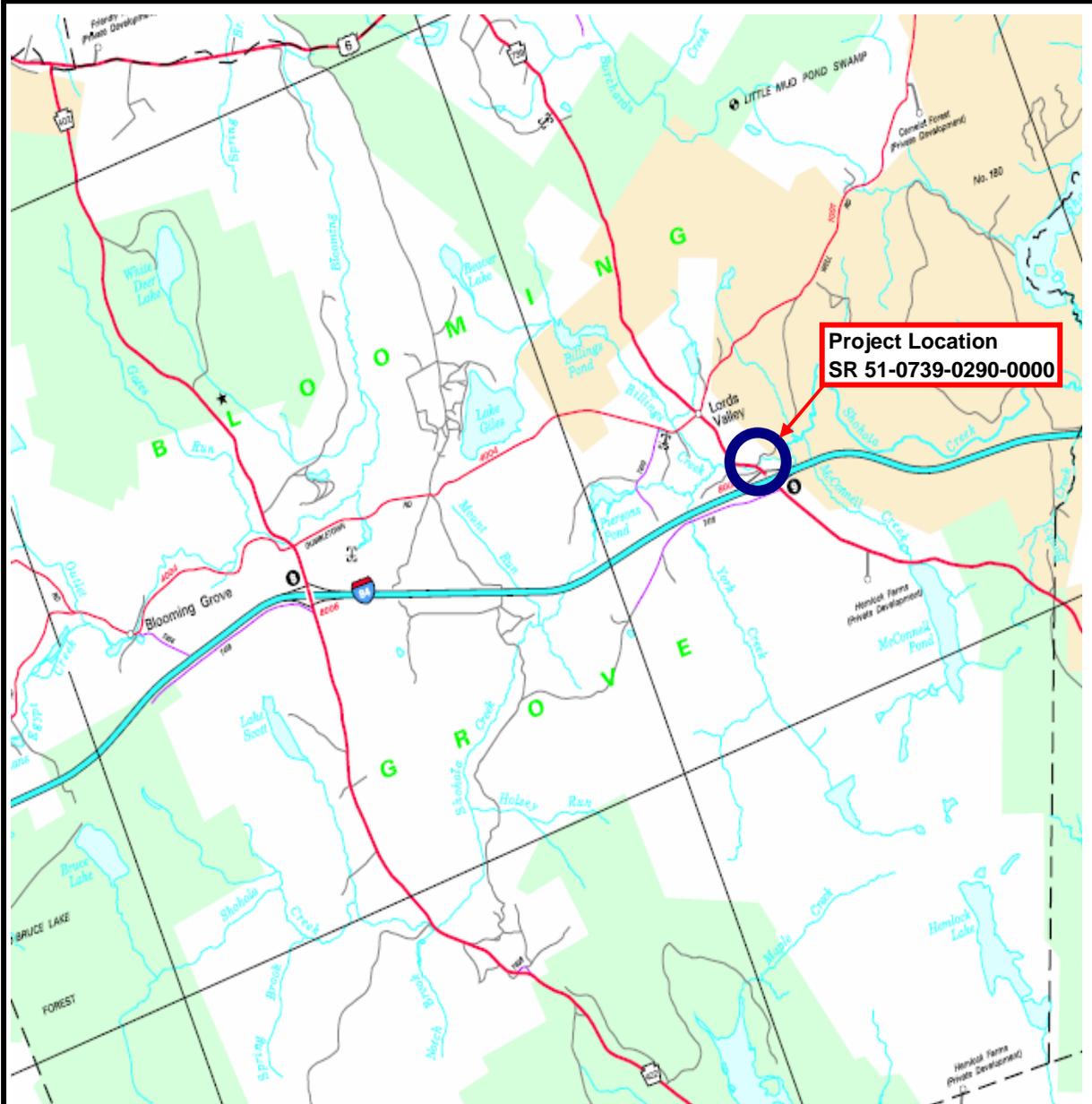
**PREPARED BY**

**DISTRICT 4-0**

**BRIDGE UNIT**

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SITE DATA AND FOUNDATION RECOMMENDATIONS--	3
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### Project Location Map

Year Built: 1950

Water Way: Shohola Creek

BMS# 51-0739-0290-0000

MPMS# 9419



**PIKE COUNTY**  
**S.R. 0739**  
**SEG. 0290 OFFSET 0000**

*Legend*

 Project Location

ABSTRACT

S.R. 0739 SECTION 452  
SEGMENT 0290 OFFSET 0000  
BLOOMING GROVE TOWNSHIP  
PIKE COUNTY

The project site is located in the Blooming Grove Township, Pike County on SR 0739 over the Shohola Creek. A drainage area of 25.59 square miles was used for hydraulic and hydrologic computer runs and calculations.

The existing structure was constructed in 1950. It is a steel I-beam bridge with a 4.25" concrete filled steel I-beam deck and standard steel railing. The existing structure has a span of 52.19 feet, and it is on gravity abutments found on gray sandstone.

The scope of work is to replace the existing Steel I-beam structures with a 90' pre-stressed concrete I-beam bridge with typical concrete barriers. The proposed structure will accommodate the passage of the flow from the 25 year design flood at (2200 cfs).

The conceptual single span bridge with integral abutments will be placed on steel H-piles with a minimum pile length of 15'.

The proposed structure will be located in the same location of the existing structure with a widening upstream to provide for a structure meeting Design Criteria for bridge width. Traffic will be maintained through staged half width construction.

FOUNDATION GUIDANCE REPORT  
S.R. 0739 SECTION 452  
SEGMENT 0290 OFFSET 0000  
BLOOMING GROVE TOWNSHIP  
PIKE COUNTY

**1.0 DESCRIPTION**

This bridge carries State Route 0739 over the Shohola Creek in Pike County, Pennsylvania as shown on the project location map in Appendix A. The purpose of this report is to present geotechnical information for the foundation design. This report was prepared in accordance with the Penndot Design Manual 4 dated September 2007, section 1.11.2.3.4.4

The existing structure is a 52.19' long steel I-beam bridge with a 4.25" concrete filled grid deck.

The proposed project will replace the existing structure with a pre-stress concrete I- beam bridge on integral abutments skewed at 45 degrees to the roadway centerline tangent. A conceptual type size and location drawing is provided in appendix A.

**1.1 BEARING CAPACITY AND SETTLEMENT**

Based on preliminary core borings an integral abutments bridge is anticipated. Contractor may need additional core borings at proposed abutment locations to better define foundation parameters.

Settlement is assumed to be negligible due to the founding on piles.

**SCOUR ANALYSIS**

Scour calculations are to be performed by the design engineer.

# DRILLER'S BORING LOG

Boring No. 1  
 Sheet 1 of 2

Location: S.R. 0739 Sec. 452 Co. Pike Job No. 049770.003  
 Station 793+21.92 (A93+21.00)\* Offset from CL 10.39 RT (16.00 RT)\* Elevation 1282.46  
 Date Started/Completed 11-4-08 Drill Contractor: L.G. HETAGER DRILLING, INC.  
 Driller Colin Meanor Helper Chris Howell  
 Engineer PA DOT 4-0/Richard Bohr Engineer's Rep. L. E. Andracki  
 Drilling Methods split spoon sample, core rock  
 Drill Rig Type: ATV/Truck/Track/Skid 228 truck Casing Diameter OD/ID 4.5-4.0 in.  
 Soil Sampling: Hammer Type: Safety/Donut/Trip: safety Weight 140 lb. Drop 30 in.  
 No. Rope Turns 1-3/4 or 2-1/4 2 1/4 : Sampler Diameter 2 in.  
 Rock Sampling: Core Barrel Type NX wireline Size 2"  
 Water Level Depth: 14.7 feet Time 0.5 hr Date 11-4-08  
 \_\_\_\_\_ feet Time \_\_\_\_\_ Date \_\_\_\_\_  
 \_\_\_\_\_ feet Time \_\_\_\_\_ Date \_\_\_\_\_

\*Construction Baseline Stationing & Offset

Depth (ft.)	Sample No./ Type or Run No.	Blows 0.5 ft. on Soil Sampler	Rec. (ft.)	Description (Color, Type, Moisture)	RQD (ft.)/%	Remarks
3.0				Not sampled		
4.5	S-1	8 16 15	3 17%	Brown silty sand, rock fragments, moist		
7.5				Not sampled		
9.0	S-2	10 6 4	7 39%	Brown silty sand, fine gravel, moist		
12.0				Not sampled		
13.5	S-3	50/ 0.3	2 56%	Fine gravel, brown silty sand, moist		Cobblestone

Notes: **4 sample jars**

**Signatures:**

Driller Colin Meanor Inspector L.E. Andracki Date 11-4-08  
 Signature \_\_\_\_\_

(Print Name) \_\_\_\_\_

# DRILLER'S BORING LOG

Boring No. \_\_\_\_\_ 1

Sheet \_\_\_\_\_ 2 of \_\_\_\_\_ 2

Job No. 049770.003

Location: S.R. \_\_\_\_\_ Sec. \_\_\_\_\_ Co. \_\_\_\_\_

Station \_\_\_\_\_ Offset from CL \_\_\_\_\_ Elevation \_\_\_\_\_

 Driller Colin Meanor Engineer's Rep. L.E. Andracki

 Drill Contractor: **L.G. HETAGER DRILLING, INC.**

Depth (ft.)	Sample No./ Type or Run No.	Blows 0.5 ft. on Soil Sampler	Rec. (ft.)	Description (Color, Type, Moisture)	RQD (ft.)/%	Remarks
16.5				Not sampled		
17.3	S-4	15 50/3	31%	Rock fragments, brown silty sand, moist		
				17.3-19.7 gray sandstone 19.7-19.9 soil seam		
21.5	R-1		48" 96%	19.9-21.5 gray siltstone	32%	
				21.5-22.7 gray siltstone 22.7-22.8 soil seam		
				22.8-24.8 gray siltstone		
26.5	R-2		59" 98%	24.8-26.5 gray sandstone with siltstone layers of	8%	
				26.5-27.8 gray silstone		
31.5	R-3		60" 100%	27.8-31.5 gray sandstone	22% total depth	

Notes:

**Signatures:**

 Driller Colin Meanor Inspector L.E. Andracki Date 11-4-08

Signature \_\_\_\_\_ (Print Name) \_\_\_\_\_

# DRILLER'S BORING LOG

Boring No. 2  
 Sheet 1 of 2

Location: S.R. 0739 Sec. 452 Co. Pike Job No. 049770.003  
 Station 792+37.55 (A92+37.38)\* Offset from CL 5.49 LT (0.89 LT)\* Elevation 1285.20  
 Date Started/Completed 11-5-08 Drill Contractor: L.G. HETAGER DRILLING, INC.  
 Driller Colin Meanor Helper Chris Howell  
 Engineer PA DOT 4-0/Richard Bohr Engineer's Rep. L.E. Andracki  
 Drilling Methods split spoon sample, core rock  
 Drill Rig Type: ATV/Truck/Track/Skid 228 truck Casing Diameter OD/ID 4.5/4.0 in.  
 Soil Sampling: Hammer Type: Safety/Donut/Trip: safety Weight 140 lb. Drop 30 in.  
 No. Rope Turns 1-3/4 or 2-1/4 2 1/4 : Sampler Diameter 2 in.  
 Rock Sampling: Core Barrel Type NX wireline Size 2"  
 Water Level Depth: 12.0 feet Time 0.5 hr Date 11-5-08  
 \_\_\_\_\_ feet Time \_\_\_\_\_ Date \_\_\_\_\_  
 \_\_\_\_\_ feet Time \_\_\_\_\_ Date \_\_\_\_\_

\*Construction Baseline Stationing & Offset

Depth (ft.)	Sample No./ Type or Run No.	Blows 0.5 ft. on Soil Sampler	Rec. (ft.)	Description (Color, Type, Moisture)	RQD (ft.)/%	Remarks
3.0				Not sampled		
4.5	S-1	5 21 26	6 33%	Brown silty sand, fine gravel, moist		
7.5				No sampled		
9.0	S-2	47 27 20	2 11%	Rock fragment, fine gravel ,moist		
12.0				Not sampled		
12.4	S-3	50/4	0%			
				12.4-13.8 gray sandstone 13.8-13.9 soil seam		

Notes: 3 sample jars

**Signatures:**

Driller Colin Meanor Inspector L.E. Andracki Date 11-5-08  
 Signature \_\_\_\_\_

(Print Name) \_\_\_\_\_



# DRILLER'S BORING LOG

Boring No. 3  
Sheet 1 of 2

Location: S.R. 0739 Sec. 452 Co. Pike Job No. 049770,003  
 Station 794+33.60 (A94+32.10)\* Offset from CL 10.70 LT (4.93 LT) Elevation 1278.22  
 Date Started/Completed 11-5-08 - 11-6-08 Drill Contractor: L.G. HETAGER DRILLING, INC.  
 Driller Colin Meanor Helper Chris Howell  
 Engineer PA DOT 4-0/Richard Bohr Engineer's Rep. L. E. Andracki  
 Drilling Methods split spoon sample, core rock  
 Drill Rig Type: ATV/Truck/Track/Skid 228 truck Casing Diameter OD/ID 4.5/4.0 in.  
 Soil Sampling: Hammer Type: Safety/Donut/Trip: safety Weight 140 lb. Drop 30 in.  
 No. Rope Turns 1-3/4 or 2-1/4 2 1/4 : Sampler Diameter 2 in.  
 Rock Sampling: Core Barrel Type NX wireline Size 2"  
 Water Level Depth: 12.2 feet Time 0.5 hr. Date 11-6-08  
 \_\_\_\_\_ feet Time \_\_\_\_\_ Date \_\_\_\_\_  
 \_\_\_\_\_ feet Time \_\_\_\_\_ Date \_\_\_\_\_

\*Construction Baseline Stationing & Offset

Depth (ft.)	Sample No./ Type or Run No.	Blows 0.5 ft. on Soil Sampler	Rec. (ft.)	Description (Color, Type, Moisture)	RQD (ft.)/%	Remarks
3.0				Not sampled		
4.5		10 23 20	8 67%	brown silty sand, fine gravel, moist		
7.5				Not sampled		
9.0	S-2	17 10 9	7 39%	Brown silty sand, rock fragments, fine gravel, moist		
12.0				Not sampled		
13.5	S-3	50/4	1 21%	Rock fragments		cored cobblestones 12.4 - 16.5 Rec. 2.4'

Notes: **3 sample jars**

**Signatures:**

Driller Colin Meanor Inspector Signature L. E. Andracki Date 11-6-08

(Print Name) \_\_\_\_\_

# DRILLER'S BORING LOG

Boring No. 3

Sheet 2 of 2

Location: S.R. \_\_\_\_\_ Sec. \_\_\_\_\_ Co. \_\_\_\_\_ Job No. 049770.003

Station \_\_\_\_\_ Offset from CL \_\_\_\_\_ Elevation \_\_\_\_\_

Driller Colin Meanor Engineer's Rep. L. E. Andracki

Drill Contractor: **L.G. HETAGER DRILLING, INC.**

Depth (ft.)	Sample No./ Type or Run No.	Blows 0.5 ft. on Soil Sampler	Rec. (ft.)	Description (Color, Type, Moisture)	RQD (ft.)/%	Remarks
						cored cobblestones 16.5-20.3 sample not attempted at 16.5
20.3 21.0	R-1		8" 100%	gray sandstone	100%	
				21.0-24.3 brown sandstone		
26.0	R-2		59" 98%	24.3-25.3 gray sandstone 25.3-26.0 brown sandstone	38%	
				26.0-27.9 fine brown sandstone 27.9-28.3 soil seam 28.3-29.4 brown sandstone		
31.0	R-3		60" 100%	29.4-31.0 soft brown sandstone	60%	Total depth

Notes:

**Signatures:**

Driller Colin Meanor Inspector Signature L. E. Andracki Date 11-6-08

(Print Name) \_\_\_\_\_

# DRILLER'S BORING LOG

Boring No. 4  
Sheet 1 of 2

Location: S.R. 0739 Sec. 452 Co. Pike Job No. 049770.003  
 Station 794+00 (A93+98.70)\* Offset from CL 40.30 RT (45.96 RT)\* Elevation 1269.65  
 Date Started/Completed 11-7-08 Drill Contractor: L.G. HETAGER DRILLING, INC.  
 Driller Colin Meanor Helper Chris Howell  
 Engineer PA DOT 4-0/Richard Bohr Engineer's Rep. L. E. Andracki  
 Drilling Methods split spoon sample, core rock  
 Drill Rig Type: ATV/Truck/Track/Skid Acker track Casing Diameter OD/ID 4.5/4.0 in.  
 Soil Sampling: Hammer Type: Safety/Donut/Trip: safety Weight 140 lb. Drop 30 in.  
 No. Rope Turns 1-3/4 or 2-1/4 2 1/2 : Sampler Diameter 2 in.  
 Rock Sampling: Core Barrel Type NX wireline Size 2"  
 Water Level Depth caved 3.0 feet Time 0 hr Date 11-7-08  
 \_\_\_\_\_ feet Time \_\_\_\_\_ Date \_\_\_\_\_  
 \_\_\_\_\_ feet Time \_\_\_\_\_ Date \_\_\_\_\_

\*Construction Baseline & Offset

Depth (ft.)	Sample No./ Type or Run No.	Blows 0.5 ft. on Soil Sampler	Rec. (ft.)	Description (Color, Type, Moisture)	RQD (ft.)/%	Remarks
1.5	S-1	1	4	brown silty sand, organics, moist		
		2				
3.0	S-2	3	4	brown silty sand, moist		
		8				
4.5	S-3	10	22%	rock fragments, brown silty sand, moist		
		21				
6.0	S-4	48	4	rock fragments, brown silty sand, moist		
		26				
7.5	S-5	13	7	rock fragments, brown silty sand, moist		
		21				
14.0		49	39%	rock fragments, wet		cored cobble stones from 6.3-14.0 No samples were attempted
		50/3				
						cobbles ended at 13.7 - top of rock 13.7
				not sampled		

Notes: 5 sample jars

**Signatures:**

Driller Colin Meanor Inspector L. E. Andracki Date 11-7-08  
 Signature \_\_\_\_\_

(Print Name) \_\_\_\_\_



SR 739

PROGRAM:S4285150  
EPORT: CAMLR510  
LIBRARY:CAMSPROD  
FINAL REPORT

PENNDOT CAMMS TESTING REPORT  
CHEMICAL

Page 1 of 1  
12/05/2008  
00:23:14  
ENGLISH

Ref#:A365242

Lab#:08057364

Pass/Fail: 0

Cont #:  
t P N:09999904000 0440 611 9998  
r O #:  
tl Cd:420 H2OCUC  
tl Ds:WATER MIX  
08Y/S:  
upl #:  
lc Cl:STREAM  
mp By:ANDRACKI  
E/PEQ:

QA RtnG:  
Smp Cls:IF  
Orgnztn:0440  
State R:0739  
Section:452 0290  
Station:  
Prt Tkt:  
Lot Nbr:  
# Incrm:01  
447 Xrf:

Cntrctr:  
Suplier:NOBLT 15  
Lctn Cd:  
JMF #/Y: /  
L/C Xrf:  
Collctd:11/18/2008  
Setup:11/25/2008  
RcvDock:12/03/2008  
RcvdLab:12/04/2008  
Releasd:12/05/2008

R-447 Remarks: PH TEST, CHLORIDE CONTENT, SULFATE CONTENT, RESISTIVITY  
pH 5.4, Cl 4.0 ppm, SO4 5.3 ppm

Test Code	Description	Inc Ver	Result Description	Result	P/F
83	PH FACTOR	1	HYDROGEN IONS	5.4	

This report is authorized by Timothy L. Ramirez, Engineer of Tests.

\*\*\*\*\* end of report \*\*\*\*\*

PROGRAM: S4285150  
REPORT: CAMLR510  
LIBRARY: CAMSPROD  
FINAL REPORT

PENNDOT CAMMS TESTING REPORT  
PHYSICAL

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Page 1 of 1  
12/04/2008  
00:23:12  
ENGLISH

Ref#: A365249 Lab#: 08091152 Pass/Fail: 0

Cont #: \_\_\_\_\_  
t P N: 09999904000 0440 611 9998  
r O #:  
tl Cd: 283 R3  
tl Ds: ROCK GENERAL  
08Y/S: 2000 850  
upl #:  
lc Cl: BORES 1 THRU 4  
mp By: ANDRACKI  
E/PEQ:

QA RtnG:  
Smp Cls: IF  
Orgnztn: 0440  
State R: 0739  
Section: 452 0290  
Station: 17.3-19.7  
Prt Tkt:  
Lot Nbr:  
# Incrm: 05  
447 Xrf:

Cntrctr:  
Suplier: ERTHMT15  
Lctn Cd:  
JMF #/Y: /  
L/C Xrf:  
Collctd: 11/04/2008  
Setup: 11/26/2008  
RcvDock: 12/03/2008  
RcvdLab: 12/03/2008  
Releasd: 12/04/2008

R-447 Remarks: 1-B1 17.3-19.7', 2-B1 24.8-26.5', 3-B2 12.4-13.8',  
4-B3 20.3-21.0', 4-B4 14.0-16.0' COMP STRNGTH TEST ONLY

Test Code	Description	Inc Ver	Result Description	Result	P/F
-----------	-------------	---------	--------------------	--------	-----

ROCK CORE SAMPLES, DIAMETER = 2.14 IN, AREA = 3.60 SQ IN  
PREPARED PER ASTM D4543; TESTED PER ASTM D2938.

INC #	LENGTH IN	L/D	LOAD LB	STRENGTH PSI
1	3.8	*1.8	31680	8810
2	4.8	2.2	48120	13380
3	4.2	2.0	50440	14020
4	5.0	2.3	36800	10230
5	5.0	2.3	15160	4210

\* ASTM D4543 REQUIRES A L/D RATIO OF 2.0 TO 2.5 FOR A VALID TEST.

TESTS FOR INFORMATION ONLY, THEREFORE RELEASED AS "OTHER".

This report is authorized by Timothy L. Ramirez, Engineer of Tests.

\*\*\*\*\* end of report \*\*\*\*\*

PROGRAM:S4285150  
 REPORT: CAMLR510  
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 FINAL REPORT

PENNDOT CAMMS TESTING REPORT  
 SOILS

Page 1 of 2  
 12/19/2008  
 00:23:31  
 ENGLISH

Ref#:A365243

Lab#:08050391

Pass/Fail: 0

Cont #:  
 St P N:09999904000 0440 611 9998  
 Pr O #:  
 Mtl Cd:303 SUBGRD  
 Mtl Ds:  
 408Y/S:  
 Supl #:  
 Plc Cl:18' RT OF CENTERLINE  
 Smp By:ANDRACKI  
 PE/PEQ:

QA Rtnq:  
 Smp Cls:IF  
 Orgnzt:0440  
 State R:0739  
 Section:452 0280  
 Station:2596  
 Prt Tkt:  
 Lot Nbr:  
 # Incrm:01  
 447 XRF:

Cntrctr:  
 Suplier:ERTHMT15  
 Lctn Cd:  
 JMF #/Y: /  
 L/C XRF:  
 Collctd:11/18/2008  
 Setup:11/20/2008  
 RcvDock:11/24/2008  
 RcvdLab:12/18/2008  
 Releasd:12/19/2008

TR-447 Remarks: CBR TESTING ONLY SAMPLE 44' SOUTH OF STRUCTURE BACKWALL

Test Code	Description	Inc Ver	Result Description	Result	P/F
315	HYDROMETER/SIEVE ANAL.	1	% PASSING 6"	100.0	
315		1	% PASSING 4"	100.0	
315		1	% PASSING 3"	100.0	
315		1	% PASSING 2 1/2"	100.0	
315		1	% PASSING 2"	100.0	
315		1	% PASSING 1 1/2"	100.0	
315		1	% PASSING 1"	71.8	
315		1	% PASSING 3/4"	58.9	
315		1	% PASSING 3/8"	38.1	
315		1	% PASSING #4	25.9	
315		1	% PASSING #10	18.8	
315		1	% PASSING #20	14.5	
315		1	% PASSING #40	10.3	
315		1	% PASSING #60	6.9	
315		1	% PASSING #100	4.8	
315		1	% PASSING #200	3.4	
315		1	FINER THAN .02	1.5	
315		1	FINER THAN .002	.6	
315		1	CLASSIFICATION GROUP	A-1-a(000)	
315		1	TEXT CLASSIFICATION	GRAVEL & SAND	
315		1	PLUS 10 MATERIAL	GVL, SS	
315		1	GRAVEL PERCENT	81.2	
315		1	TOTAL SAND PERCENT	15.4	
315		1	COARSE SAND PERCENT	8.5	
315		1	FINE SAND PERCENT	6.9	
315		1	SILT PERCENT	2.8	
315		1	CLAY PERCENT	.6	
310	PREPARING SMALL SAMPLE	1	PREPARING SMALL SAMPLE		
314	LIQUID/PLASTIC LIMITS	1	LIQUID LIMIT %	NP	
314		1	PLASTIC LIMIT %	NP	
314		1	PLASTICITY INDEX %	NP	
316	SPECIFIC GRAVITY	1	SPECIFIC GRAVITY	2.62	

No CBR or Moisture Density performed.

PROGRAM:S4285150  
 REPORT: CAMLR510  
 LIBRARY: CAMSPROD  
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PENNDOT CAMMS TESTING REPORT  
 SOILS

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 12/17/2008  
 00:23:05  
 ENGLISH

Ref#:A365247

Lab#:08050372

Pass/Fail: 0

Cont #:  
 St P N:09999904000 0440 611 9998  
 Pr O #:  
 Mtl Cd:302 BACKFL  
 Mtl Ds:  
 408Y/S:  
 Supl #:  
 Plc Cl:15 TO 20' BELOW OG  
 Smp By:ANDRACKI  
 PE/PEQ:

QA Rtnq:  
 Smp Cls:IF  
 Orgnzt:0440  
 State R:0739  
 Section:452 0280  
 Station:2596  
 Prt Tkt:  
 Lot Nbr:  
 # Incrm:01  
 447 XRF:

Cntrctr:  
 Suplier:ERTHMT15  
 Lctn Cd:  
 JMF #/Y: /  
 L/C Xrf:  
 Collectd:11/18/2008  
 Setup:11/20/2008  
 RcvDock:11/24/2008  
 RcvdLab:12/04/2008  
 Releasd:12/17/2008

TR-447 Remarks: SV ANLYS, ATT LMYS, PH TST, RSTVTY, SULF CNT, CHLRD CNT,  
 10' R OF CENTERLINE, 44' S OF STRUCTURE BACKWALL

Test Code	Description	Inc Ver	Result Description	Result	P/F
315	HYDROMETER/SIEVE ANAL.	1	% PASSING 6"	100.0	
315		1	% PASSING 4"	100.0	
315		1	% PASSING 3"	100.0	
315		1	% PASSING 2 1/2"	100.0	
315		1	% PASSING 2"	100.0	
315		1	% PASSING 1 1/2"	100.0	
315		1	% PASSING 1"	87.1	
315		1	% PASSING 3/4"	71.1	
315		1	% PASSING 3/8"	63.5	
315		1	% PASSING #4	54.7	
315		1	% PASSING #10	46.9	
315		1	% PASSING #20	40.2	
315		1	% PASSING #40	34.8	
315		1	% PASSING #60	29.2	
315		1	% PASSING #100	23.9	
315		1	% PASSING #200	18.7	
315		1	FINER THAN .02	7.9	
315		1	FINER THAN .002	2.0	
315		1	CLASSIFICATION GROUP	A-1-b(000)	
315		1	TEXT CLASSIFICATION	GVL LMY COR SND	
315		1	PLUS 10 MATERIAL	SS, GVL	
315		1	GRAVEL PERCENT	53.1	
315		1	TOTAL SAND PERCENT	28.2	
315		1	COARSE SAND PERCENT	12.1	
315		1	FINE SAND PERCENT	16.1	
315		1	SILT PERCENT	16.7	
315		1	CLAY PERCENT	2.0	
300	MEASRNG RESISTIVITY	1	RESISTIVITY (OHM-CM)	9618.0	
312	PREPARING LARGE SAMPLE	1	PREPARING LARGE SAMPLE		
314	LIQUID/PLASTIC LIMITS	1	LIQUID LIMIT %	NP	
314		1	PLASTIC LIMIT %	NP	
314		1	PLASTICITY INDEX %	NP	
316	SPECIFIC GRAVITY	1	SPECIFIC GRAVITY	2.66	

PROGRAM:S4285150  
REPORT: CAMLR510  
LIBRARY:CAMSPROD  
FINAL REPORT

PENNDOT CAMMS TESTING REPORT  
SOILS

Page 2 of 2  
12/17/2008  
00:23:05  
ENGLISH

Ref#:A365247

Lab#:08050372

Pass/Fail: 0

Cont #:  
St P N:09999904000 0440 611 9998  
Pr O #:  
Mtl Cd:302 BACKFL  
Mtl Ds:  
408Y/S:  
Supl #:  
Plc Cl:15 TO 20' BELOW OG  
Smp By:ANDRACKI  
PE/PEQ:

QA Rtnng:  
Smp Cls:IF  
Orgnztm:0440  
State R:0739  
Section:452 0280  
Station:2596  
Prt Tkt:  
Lot Nbr:  
# Incrm:01  
447 Xrf:

Cntrctr:  
Suplier:ERTHMT15  
Lctn Cd:  
JMF #/Y: /  
L/C Xrf:  
Collctd:11/18/2008  
Setup:11/20/2008  
RcvDock:11/24/2008  
RcvdLab:12/04/2008  
Releasd:12/17/2008

TR-447 Remarks: SV ANLYS, ATT LMTS, PH TST, RSTVTY, SULF CNT, CHLRD CNT,  
10' R OF CENTERLINE, 44' S OF STRUCTURE BACKWALL

Test Code	Description	Inc Ver	Result Description	Result	P/F
373	CHLORIDES	1	CHLORIDE (PPM)	20.4	
459	SULFATES	1	SULFATE (PPM)	3.4	
503	PH FACTOR	1	PH FACTOR	5.9	

Material class changed from SUBGRD to BACKFL so results  
could be entered. TRS 12/4/08

This report is authorized by Timothy L. Ramirez, Engineer of Tests.

\*\*\*\*\* end of report \*\*\*\*\*

PROGRAM:S4285150  
 REPORT: CAMLR510  
 LIBRARY: CAMSPROD  
 FINAL REPORT

PENNDOT CAMMS TESTING REPORT  
 SOILS

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Page 1 of 2  
 12/17/2008  
 00:23:05  
 ENGLISH

Ref#:A365246

Lab#:08050373

Pass/Fail: 0

Cont #:  
 St P N:09999904000 0440 611 9998  
 Pr O #:  
 Mtl Cd:302 BACKFL  
 Mtl Ds:  
 408Y/S:  
 Supl #:  
 Plc Cl:20 TO 30' BELOW OG  
 Smp By:ANDRACKI  
 PE/PEQ:

QA Rtnq:  
 Smp Cls:IF  
 Orgnztn:0440  
 State R:0739  
 Section:452 0290  
 Station:6045  
 Prt Tkt:  
 Lot Nbr:  
 # Incrm:01  
 447 XRF:

Cntrctr:  
 Suplier:ERTHMT15  
 Lctn Cd:  
 JMF #/Y: /  
 L/C Xrf:  
 Collctd:11/18/2008  
 Setup:11/20/2008  
 RcvDock:11/24/2008  
 RcvdLab:12/04/2008  
 Releasd:12/17/2008

TR-447 Remarks: SV ANLYS, ATT LMTS, PH TST, RSTVTY, SULF CNT, CHLRD CNT,  
 15' L OF CENTERLINE, 47' N OF STRUCTURE BACKWALL

Test Code	Description	Inc Ver	Result Description	Result	P/F
315	HYDROMETER/SIEVE ANAL.	1	% PASSING 6"	100.0	
315		1	% PASSING 4"	100.0	
315		1	% PASSING 3"	100.0	
315		1	% PASSING 2 1/2"	100.0	
315		1	% PASSING 2"	100.0	
315		1	% PASSING 1 1/2"	88.7	
315		1	% PASSING 1"	85.9	
315		1	% PASSING 3/4"	78.9	
315		1	% PASSING 3/8"	71.9	
315		1	% PASSING #4	65.0	
315		1	% PASSING #10	59.5	
315		1	% PASSING #20	55.1	
315		1	% PASSING #40	49.1	
315		1	% PASSING #60	37.8	
315		1	% PASSING #100	24.6	
315		1	% PASSING #200	13.4	
315		1	FINER THAN .02	4.2	
315		1	FINER THAN .002	.9	
315		1	CLASSIFICATION GROUP	A-1-b(000)	
315		1	TEXT CLASSIFICATION	SAND & GRAVEL	
315		1	PLUS 10 MATERIAL	SS, GVL	
315		1	GRAVEL PERCENT	40.5	
315		1	TOTAL SAND PERCENT	46.1	
315		1	COARSE SAND PERCENT	10.4	
315		1	FINE SAND PERCENT	35.7	
315		1	SILT PERCENT	12.5	
315		1	CLAY PERCENT	.9	
300	MEASRNG RESISTIVITY	1	RESISTIVITY (OHM-CM)	7557.0	
312	PREPARING LARGE SAMPLE	1	PREPARING LARGE SAMPLE		
314	LIQUID/PLASTIC LIMITS	1	LIQUID LIMIT %	NP	
314		1	PLASTIC LIMIT %	NP	
314		1	PLASTICITY INDEX %	NP	
316	SPECIFIC GRAVITY	1	SPECIFIC GRAVITY	2.64	

PROGRAM:S4285150  
REPORT: CAMLR510  
LIBRARY:CAMSPROD  
FINAL REPORT

PENNDOT CAMMS TESTING REPORT  
SOILS

Page 2 of 2  
12/17/2008  
00:23:05  
ENGLISH

Ref#:A365246

Lab#:08050373

Pass/Fail: 0

Cont #:  
St P N:09999904000 0440 611 9998  
Pr O #:  
Mtl Cd:302 BACKFL  
Mtl Ds:  
408Y/S:  
Supl #:  
Plc Cl:20 TO 30' BELOW OG  
Smp By:ANDRACKI  
PE/PEQ:

QA Rtnq:  
Smp Cls:IF  
Orgnztn:0440  
State R:0739  
Section:452 0290  
Station:6045  
Prt Tkt:  
Lot Nbr:  
# Incrm:01  
447 Xrf:

Cntrctr:  
Suplier:ERTHMT15  
Lctn Cd:  
JMF #/Y: /  
L/C Xrf:  
Collctd:11/18/2008  
Setup:11/20/2008  
RcvDock:11/24/2008  
RcvdLab:12/04/2008  
Releasd:12/17/2008

TR-447 Remarks: SV ANLYS, ATT LMTS, PH TST, RSTVTY, SULF CNT, CHLRD CNT,  
15' L OF CENTERLINE, 47' N OF STRUCTURE BACKWALL

Test Code	Description	Inc Ver	Result Description	Result	P/F
373	CHLORIDES	1	CHLORIDE (PPM)	23.7	
459	SULFATES	1	SULFATE (PPM)	.6	
503	PH FACTOR	1	PH FACTOR	6.1	

Material class changed from SUBGRD to BACKFL so results could be entered. TRS 12/4/08

This report is authorized by Timothy L. Ramirez, Engineer of Tests.

\*\*\*\*\* end of report \*\*\*\*\*

BOX 1 OF 2

S.R. 739 SEC. 45a STA. OFF. FROM 0000  
BOR. NO. 1 Seg 0a90 ELEV. \_\_\_ FT.  
CO. PkE \_\_\_\_\_ DEPTH 00 FT. TO 30.5 FT.

SIR 739

BDR NO 1

CO Rks

SEC 45a  
Seq 290

SEA

DE FROM 0000

DEPTH

FT

DEPTH

FT TO

FT

RUN NO

DEPTH

RECOVERY

POD

1  
2  
3  
4  
5

1736215  
2156215  
215365

48% 96%  
59% 98%  
60% 100%

32%  
81%  
22%

L. G. PERTHURST PULLING INC.  
P.O. Box 100  
P.O. Box 100  
P.O. Box 100  
P.O. Box 100

DATE: 10/1/80  
TIME: 10:00 AM  
CITY: OREGON  
STATE: OREGON  
COUNTRY: U.S.A.

DATE: 10/1/80  
TIME: 10:00 AM  
CITY: OREGON  
STATE: OREGON  
COUNTRY: U.S.A.

17.3

215

265



BOX 2 OF 2

S. R. 739 SEC. 459 STA.      OFF. FROM C.      FT.

BOR. NO 1 Sec 290 ELEV.      FT.

CO Pike DEPTH 36.5 FT. TO 34.5 FT.

305

SR 739  
BOR NO 1  
CO Pike

SEC 452  
Seq 296

STA

OF FROM C

DEPTH

FT

RECOVERY

FT

DEPTH

ROAD

RUN NO

1  
2  
3  
4  
5

\_\_\_\_\_  
\_\_\_\_\_  
36.5  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
31.5  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
see Box 1  
\_\_\_\_\_  
\_\_\_\_\_

31.3



BOX 1 OF 1

S.P. 739 SEC. 432 STA. OFF. FROM C.      FT.

BOB. NO 2 ELEV.      FT.

CO. Pike DEPTH ast FT. TO 25.5 FT.

SIR 739  
 BORR NO 2  
 CO Pike

SEC 452  
 Seg 290

STA

DIFF FROM 0000

RUN NO	DEPTH	FEET TO	RECOVERY	FT	ROD
1	12.4-11.5	49% 100%	27%		
2	16.5-21.5	60% 100%	22%		
3	21.5-25.5	45% 94%	27%		
4	_____	_____	_____	_____	_____
5	_____	_____	_____	_____	_____

← R4



16.5

21.5

25.5

4-21-02  
 3-5-78

BOX 1 OF 2

S.P. 739

SEC. 452

STA.     

OFF.     

FROM 0000

BOX. NO 3

FEET.     

CO. RIK

DEPTH 0.0

FT. TO 26.0 FT.

SIR 739

SEC 4 S 2

SEA 294

DI FROM C. 0000

BOR NO 3

Pike

DEPTH

RECOVERY

FT

FT

RUN NO

DEPTH

RECOVERY

FT

1

20.3 to 26.0

8' = 100%

100%

2

21.0 to 26.0

59 = 98%

38%

3

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

U.S. GEOLOGICAL SURVEY  
WATER RESOURCES DIVISION  
PACIFIC DIVISION  
SAN FRANCISCO, CALIF.

U.S. GEOLOGICAL SURVEY  
WATER RESOURCES DIVISION  
PACIFIC DIVISION  
SAN FRANCISCO, CALIF.

12.4

20.3

165

26.0



BOX 2 OF 2

SPEC. 452 STA      OFF. FROM C.      FT.

S.P. 739 BOR. NO. 3 ELEV.      FT.

CO. Pike DEPTH 260 FT. TO 390 FT.

260

BOHR. NO. 3  
CO Pike

SEC. 452  
Sug 290

STA

DI. FROM 0000

RUN NO.

1  
2  
3  
4  
5

DEPTH

DEPTH

RECOVERY

ROD

26.0-31.0

26.0-28

602

31.0



BOX 1 OF 1

S.R. 739 SEC. 452 STA.      OFF. FROM C. 000

BOX. NO 4 ELEV.      FT.

CO. Pike DEPTH 60.0 FT. TO 240 FT.

SIR 759  
 BOR. NO 4  
 CO PIKE

SEC 452  
 Sec 290

STA

OF FROM 0000

DEPTH	DEPTH	RECOVERY	FT
FT TO			ROD
1	140-160	22 92%	38 1/2
2	160-210	59 98%	35 1/2
3	210-240	35 97%	0%
4			
5			



See Note 1 Bor 2 211-240  
 For Rem of Rod

BORING: B-4  
DEPTH: 14.0' to 16.0'  
SR 739 Sec. 452  
PIKE CO.

BORING: B-3  
DEPTH: 20.3' to 21.0'  
SR 739 Sec. 452  
PIKE CO.

BORING: B-2  
DEPTH: 12.4' to 13.8'  
SR 739 Sec. 452  
PIKE CO.

BORING: B-1  
DEPTH: 24.8' to 26.5'  
SR 739 Sec. 452  
PIKE CO.

BORING: B-1  
DEPTH: 17.3' to 19.7'  
SR 739 Sec. 452  
PIKE CO.

**ITEM 8211-0001 DESIGN OF BRIDGE STRUCTURE (NO AS-DESIGNED FOUNDATION PROVIDED), S-31651**

**I. DESCRIPTION** - This work is the design and preparation of construction plans for a bridge structure of the type indicated on the Department's Conceptual Type, Size, and Location (TS&L) Plans or an alternate type structure. Preparation of a Final TS&L Submission and a Foundation Submission for the proposed structure type is also required.

**II. DESIGN**

**(a) General**

The Department's Conceptual TS&L Plans represent a bridge structure type and layout that will meet safety, hydraulic, geometric, environmental, and load carrying capacity requirements for the project. A structure type and configuration as that shown on the Conceptual TS&L Plans or an alternate type structure subject to the requirements specified herein may be designed and constructed. Prepare and submit a Final TS&L submission for the proposed bridge structure for review and approval.

Allowable foundation type(s) along with geotechnical design parameter limitations are provided for the structure foundation. Use this information to prepare the foundation submission for the structure.

Provide design and drawings in the units of measurement shown on the Conceptual TS&L Plans.

Provide a complete set of computations for superstructure and substructure, including the foundation. Provide additional calculations, as requested by the Department's District Bridge Engineer or Chief Bridge Engineer, to evaluate any details throughout the life of the contract.

Verify that an oversize and/or overweight permit can be issued for super loads before incorporating them into a design. Submit verification documentation with the Final TS&L submission.

Structure types, concepts, construction sequencing, or other details that are not covered in the design and construction specifications or standards, or practice not commonly used in Pennsylvania are allowed only when specifically indicated herein. Where design or construction that deviates from standard Department practice is proposed, submit a conceptual design before the Final TS&L for review and approval. Include in the submittal conceptual plans and a list of items that deviate from standard design and construction, including but not limited to design methodology, the computer program that will be used in the design, construction sequencing, and any specialized construction techniques. No extensions of contract time will be granted for pursuits of alternates or non-standard designs.

**(b) Additional Designer Qualifications**

Have the design completed by a Professional Engineer licensed in the Commonwealth of Pennsylvania. See the special provision entitled "Design Activities Qualifications and Requirements" for additional requirements.

**(c) Additional Information/Data Made Available to the Contractor by the Department**

The following information/data will be made available to the Contractor during the advertisement period:

- Test Boring Core Boxes: Test boring core boxes are available for inspection at Dupont Maintenance Facility, Dupont, Pa. Contact Richard Bohr, PE. At 570-963-4023 to arrange for a date and time to inspect the core boxes.
- Conceptual TS&L and Roadway Plans – Any information can be provided to the successful bidder in Microsation format only. A request for this information must be made to the District Engineer in writing. The designer will agree to accept the terms and conditions for the release of electronic data.
- Foundation Design Guidance Report.
- Existing plans (S-1048) will be made available.

#### **(d) Design Specifications**

Develop the Final TS&L and prepare the structure construction plan in accordance with the Special Provision titled SPECIAL BIDDING – DESIGN-BUILD, Section VIII – General Design Requirements, Design Specifications.

Use PENNDOT Design Manual Part 4 for design policy and procedures and design criteria. Refer to the "Bridge/Structures Related Effective Policy Letters" for additional design policy Strike-Off Letters that are applicable to the structure design.

In the event that certain design parameters, stresses, or specifications are in conflict, the following order of predominance governs:

- Design requirements listed herein and addenda (addendum) to the proposal.
- Design related Strike-Off Letters in effect on the date of project advertisement.
- PENNDOT Design Manual Part 4, Structures
- PENNDOT Bridge Design and Bridge Construction Standards
- AASHTO Guide Specifications for Horizontally Curved Highway Bridges
- AASHTO LRFD Bridge Design Specifications or, when applicable, AASHTO Standard Specifications for Highway Bridges

In the event that a clear order of precedence cannot be established, or a difference in the interpretation of the design criteria, standards, specifications, or methodology cannot be resolved, the Chief Bridge Engineer will be arbiter and the Chief Bridge Engineer's decision will be final.

#### **(e) Design Requirements**

##### **1. General**

- Slip-formed barriers are not allowed.
- Segmental concrete construction is not allowed.
- Lightweight concrete is not allowed.
- Do not use the BLC Standard Drawings.
- Do not use precast concrete bridge barriers.
- Epoxy Coat all Reinforcement Bars.

## 2. Geometry

Design the structure according to the geometrics shown on the Conceptual TS&L Plans, except changes will be allowed as follows:

- Horizontal Alignment: No Change Allowed"
- Vertical Alignment: No Change Allowed"
- Substructure Unit Locations: Maintain a minimum waterway opening of 612 ft<sup>2</sup>
- Bridge Length: As required to maintain a minimum opening of 612 ft<sup>2</sup>
- Lane, Shoulder, and Sidewalk Widths: Minimum lane and shoulder width according to the conceptual TS&L
- Staged Construction Requirements:
  - Allow for staged construction while maintaining one lane of vehicular traffic during all stages of construction.
  - Minimum temporary lane widths of 12 ft are required.
  - Provide a maximum of 1 longitudinal construction joint in the deck slab. The longitudinal construction joint must be positioned within the middle 1/2" width of the top flange of a beam.

## 3. Seismic

Site Class is not Class E.

Design the connection force effect in the restrained directions between the superstructure and substructure as 0.25 times the vertical reaction due to the tributary permanent load.

## 4. Superstructure

Incorporate the following requirements into the superstructure design:

- Do not use less than **6** girders in the superstructure. Use more girders if required for future redecking.
- Deck Expansion Joints: None
- Steel box girders are not allowed.
- Precast panel forms for placing the concrete deck slab in lieu of metal stay-in-place forms are not allowed.
- Provide live load ratings with and without future wearing surface
- For steel girder designs, do not include longitudinal stiffeners in computing the steel section properties.
- For prestressed concrete beam designs, prestressed concrete beam sections differing significantly from the standards specified herein will be considered as nonstandard sections subject to the requirements of Section 1107.03(a) 4. Do not deviate from the minimum flange and web thickness or section properties shown in the Bridge Design Standard Drawings.
- Provide provisions for future jacking of superstructure for bearing repair or replacement.
- All inventory ratings shall control in flexure
- TheTK-527 and ML-80 inventory ratings must provide a minimum rating of 1.0.

## 5. Substructure

Incorporate the following requirements into the substructure design:

- MSE abutments or wingwalls are not allowed.
- Precast modular retaining walls are not allowed.
- Integral abutments are allowed.
- Precast piers are not allowed.
- Mandatory Pre-drilling will be required at pile locations.

## **6. Temporary Bridges**

Not Applicable

## **7. Maintenance of Traffic During Construction**

In accordance with items 8901-1001 and the approved Traffic Control Plans.

Maintenance of pedestrian traffic on the structure is not required during construction.

## **8. Railroad Requirements**

This Section is not applicable.

## **9. Future Widening Requirements**

None.

## **10. Future Redecking Requirements**

In addition to the requirements in DM 4, incorporate the following future redecking provisions into the design:

- Allow for redecking in staged construction while maintaining 1 lanes of vehicular traffic during all stages of construction.
- Minimum lane widths of 12' are required.
- Design beams to carry standard design live loads at all stages of redecking.
- Allow for a maximum of 1 longitudinal construction joint(s) in the deck slab. The longitudinal construction joint must be positioned within the width of the top flange of a beam.
- Maintenance of pedestrian traffic is not required during future redecking.
- The superstructure and substructure must be designed to meet all Strength and Service Limit States for the specified future staging shown on the Conceptual TS&L.

## **11. Inspection and Maintenance Accessibility**

Provide inspection and maintenance accessibility equivalent to that provided in the Conceptual TS&L Plans, or alternate means acceptable to the Department. In case of a disagreement on accessibility, the Chief Bridge Engineer's decision will be binding.

## **12. On-Bridge Lighting**

This section is not applicable.

## **13. Waterway Requirements**

Incorporate the following waterway requirements into the bridge design and construction:

**13.a. Structure Shown on the Conceptual TS&L:**

Normal Clear Span: 63'- 8"  
Minimum Underclearance: 7'- 7 5/8"  
Minimum Bottom of Beam Elevation: 1272.90ft.  
Hydraulic Opening: 612sf

- Obtain approved waterway permit(s) for the project. Comply with all requirements of the approved permit(s). Refer to the Special Provision titled PERMITS FOR DESIGN-BUILD PROJECTS for further details. Do not start construction work until approved waterway permits are obtained.

**13.a.1. Hydraulic Analysis:**

- Hydrologic and Hydraulic documents for the Conceptual TS&L structure prepared by the Department are preliminary and for information purposes only. Prepare the final H&H documents. Prepare and submit for approval the appropriate waterway permit(s) using the final H&H documents and in accordance with the conditions of the permit.

**13.a.2. Scour Analysis:**

- Scour Analysis is preliminary and for information purposes only, Prepare Scour Analysis in conjunction with final H & H documents.

**13.a.3. FEMA and NEPA Coordination:** In accordance with the Special Provision titled PERMITS FOR DESIGN-BUILD PROJECTS.

**13.a.4 Permits:** In accordance with the Special Provision titled PERMITS FOR DESIGN-BUILD PROJECTS.

**13.a.5. Other:** Not Required.

**13.b. Alternate Structure**

- Obtain approved/amended waterway permit(s) for alternate structures. Comply with all requirements of the approved permit(s). Refer to the Special Provision titled PERMITS FOR DESIGN-BUILD PROJECTS for further details. Do not start construction work until approved waterway permits are obtained.
- Alternate Structures with low chord elevations less than the Conceptual TS&L structure may be used, dependent upon approved hydraulic analyses, and provided that the water surface elevations are less than the Conceptual TS&L.
- Do not increase the water surface elevations for the 25 year storms above those given for the Conceptual TS&L.
- If the Conceptual TS&L structure impacts wetlands, no additional wetland impacts will be allowed for alternate structure types.

**13.b.1. Hydraulic Analysis**

- Hydrologic and Hydraulic documents for the Conceptual TS&L structure prepared by the Department are preliminary and for information purposes only. Prepare the final H&H documents. Prepare and submit for approval the appropriate waterway permit(s) using the final H&H documents and in accordance with the conditions of the permit.

**13.b.2. Scour Analysis**

- Scour Analysis is preliminary and for information purposes only, Prepare Scour Analysis in conjunction with final H & H documents.

**13.b.3. FEMA and NEPA Coordination** In accordance with the Special Provision titled PERMITS FOR DESIGN-BUILD PROJECTS.

**13.b.4. Permits** In accordance with the Special Provision titled PERMITS FOR DESIGN-BUILD PROJECTS.

**13.b.5 Other:**

This section is not applicable.

**14. Environmental**

Refer to the Special Provision title ENVIRONMENTAL COMMITMENT AND MITIGATION TRACKING SYSTEM (ECMTS) REPORT.

**15. Utilities**

Refer to the Conceptual TS&L Plans for general utility details and a listing of required on-bridge utility materials, and material acquisition and installation responsibilities.

Design the bridge structure to accommodate the following utility facilities on, under, or above the bridge:

PPL ELECTRIC UTILITIES CORPORATION  
ATTN: MS. CHARLOTTE KRUPA (610) 774-6289  
2 NORTH NINTH ST./GENTW19  
ALLENTOWN, PA. 18101-1179

VERIZON NORTH INC.  
ATTN: DAN BLODNIKAR (570)253-0048  
174 BEACH LAKE HIGHWAY  
HONESDALE, PA. 18431

LACKAWAXEN TELEPHONE COMPANY  
ATTN: JOE SCHIMITSCH (570) 685-1098  
P.O. BOX 8  
104 HOTEL RD.  
ROWLAND, PA. 18457

BLUE RIDGE CABLE TECHNOLOGIES INC.  
ATTN: SKIP HUNSICKER (610) 826-2551

BOX 215  
PALMERTON, PA. 18071

If utility relocations are required as part of an alternate structure, obtain approvals from the affected utility companies.

**16. Other**

This section is not applicable.

**(f) Foundations**

**1. General** – A limited subsurface exploration investigation has been performed for this project. The subsurface exploration data, in conjunction with foundation requirements specified herein, should be used to develop the foundation design parameters. A foundation submission is required.

**2. Allowable Foundation Types**

Foundation types are allowed as follows:

Integral Footings with mandatory pre-drilled piles are permitted.

**2.a. Geotechnical Design Parameter Limitations**

Determine the applicable resistances to be used to design the substructures, limited to the maximum Ultimate Capacities given below. Designs utilizing Ultimate Capacities exceeding the maximum values indicated below will not be accepted.

**2.a.1. Spread footings on Soil**

Not Applicable

**2.a.2. Spread Footings on Rock**

Not Applicable

**2.a.3. Pile Supported Foundations**

Point Bearing Piles

Ultimate pile capacity is limited to a maximum yield strength of 36 ksi.

End Bearing Piles:

Not Applicable

Friction Piles:

Not Applicable)

**2.a.4. Drilled Caisson Supported Foundations**

Not Applicable

### **3. Required Geotechnical Exploration**

Provide and utilize the following number of borings for the foundation design, at a minimum:

- Abutments – Will be provided
- Piers – Not Applicable

Previously obtained borings as shown on the Conceptual TS&L Plans may be used as a required boring.

Perform the geotechnical exploration for the bridge structure according to the Special Provision titled SPECIAL BIDDING – DESIGN-BUILD, Section VIII – General Design Requirements, Design Specifications.

### **4. Laboratory Testing**

Not Applicable

### **5. Foundation Submission**

Prepare and submit a foundation report according to the requirements of DM 4, Policies and Procedures (PP), Section 1.9.4. Cost comparisons per Section 1.9.4.3(c) are not required.

### **6. Construction Requirements**

#### **6.a. Test Piles**

Not Applicable

#### **6.b. Pile Dynamic Analysis**

Not Applicable

#### **6.c. Load Tests**

Not Applicable

#### **6.d. Subgrade Preparation**

Not Applicable

#### **6.e. Settlement Monitoring**

Not Applicable

#### **6.f. Other**

Pre-Application meeting is required by the department.

**(g) Submittals**

**1. Final TS&L Submission**

Include the following information in the TS&L submission:

1. Final TS&L submission letter: In accordance with DM 4 PP Section 1.9.3.3.1(a).
2. Final TS&L plans: In accordance with DM-4 PP Section 1.9.3.3.1(b).
3. Supply the following additional information:
  - (a) Route and section number, index map and segment/offset of limits
  - (b) Name of Lead Design Engineer
  - (c) Design traffic data including current and projected ADTT and class of highways on relevant roads
  - (d) Date of line and grade approval and design speed (if changes are made to the as-designed vertical and horizontal alignments)
  - (e) Copy of the H&H analysis submitted to the Department of Environmental Protection) if the Contractor obtains the waterway permit(s) or if an amendment to the waterway permit is necessary
4. Completed applicable Q/A Forms D-501, D-502, D-503 and/or D-504 (refer to DM 4 Appendix A).

Approval of the Final TS&L is contingent upon waterway permit approval from the Department of Environmental Protection, as applicable.

**2. Waterway (As Applicable)**

In accordance with Section II (e) 13 of this Special Provision. .

**3. Foundation Submission (As Applicable)**

In accordance with DM 4, PP Section 1.9.4.3.1 and Section II(f) of this Special Provision for submittal requirements.

**4. Final Structure Plans and Computations**

In accordance with DM 4. Include in the Final Structure Plans the Core Boring Logs as provided in the Conceptual Drawings in unmodified form; with the exception of superimposition of sheet numbering consistent with the Final Structure Plans and prominent designation of each sheet as "Information Provided by Others." Sign and seal each plan sheet per DM 4, Section PP 1.6.3.1, with the exception of the aforementioned Core Boring Logs. Upon completion of Quality Assurance Review, or Owner's Perspective Review, as applicable, and receipt of drawings stamped "Recommended for Construction," provide the Department with one paper copy for signature by the District Bridge Engineer.

## **5. Revisions During Construction and "As-Built" Drawings**

In accordance with DM 4, PP Section 1.10, except that the Contractor is responsible for making changes to the contract drawings, and making and distributing necessary copies of the revised plans to all affected parties. Section 1.10.5 is modified as follows: If a design error occurs, the Contractor is fully responsible for the costs associated with providing additional design analysis and construction modifications, acceptable to the Department, to correct the problem. The Department will require reimbursement for design errors to cover engineering review costs. This amount will be deducted from the lump sum cost for the construction of structure item via work order.

Maintain and submit "As-Built" drawings in accordance with Publication 10C, Design Manual Part 1C, Transportation Engineering Procedures, Section 5.7, As-Built Plans, except include major quantity changes (such as foundation pile length changes, etc).

All "As-Built" drawings are the sole responsibility of the Contractor and must be submitted to the District within 3 months of final inspection acceptance as defined in Section 110.08(a).

### **(h) Submittal Review, Approval, and Distribution**

Make all submissions in accordance with Special Provisions titled SPECIAL BIDDING – DESIGN-BUILD, except as follows;

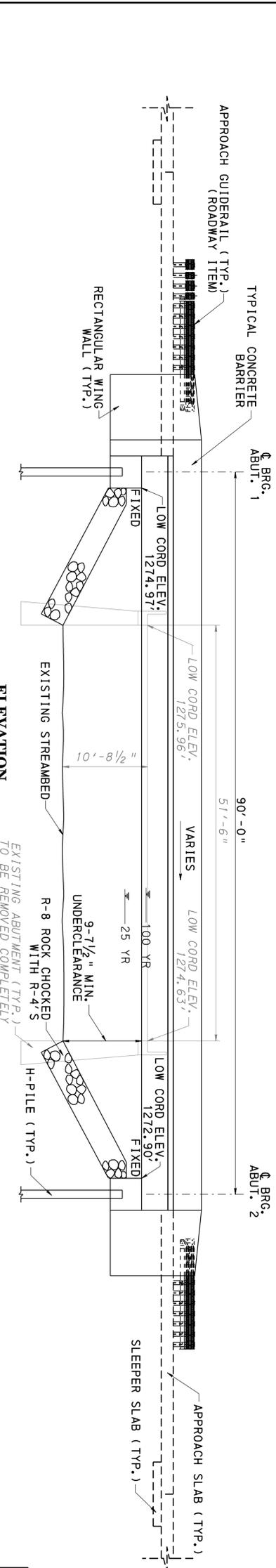
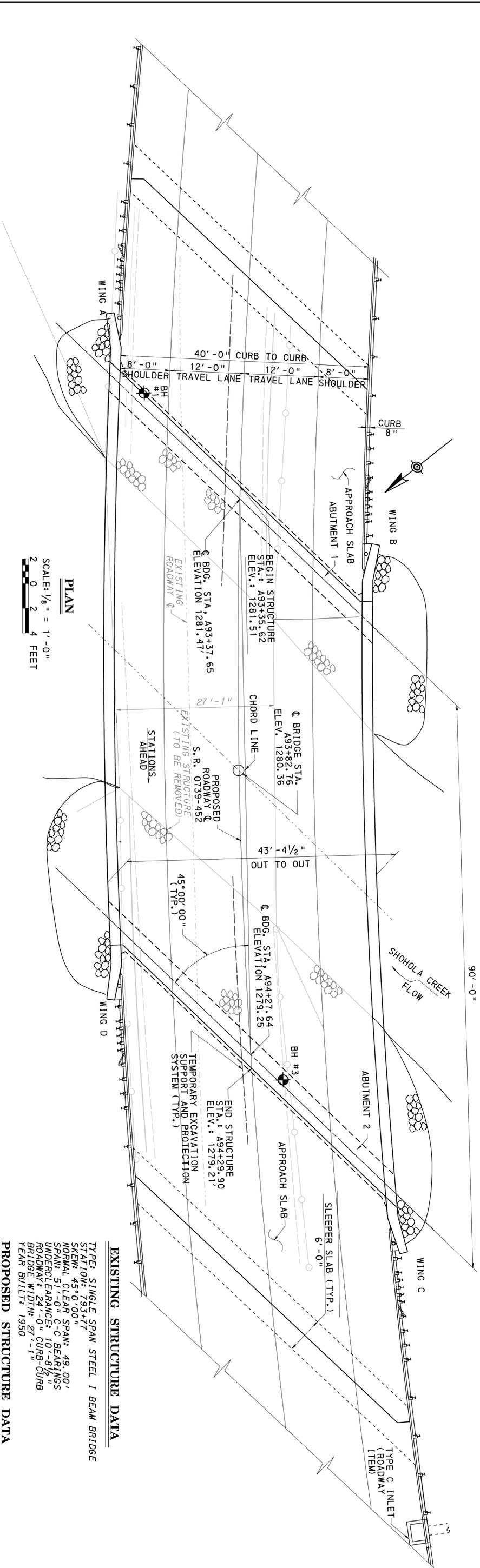
- Partial Plans Submissions: Plans and calculations for each substructure unit may be submitted separately ten (10) working days for the first and ten (10) working days for every subsequent submission.
- Utilities: Additional contract time will not be considered for additional utility relocation work associated with an alternate structure.

### **III. MEASUREMENT AND PAYMENT-Lump Sum**

Partial payment will be made for the design activity based on the approved Schedule of Values in accordance with Section IX of the Special Provision titled SPECIAL BIDDING – DESIGN-BUILD, utilizing the following components:

- Final TS&L Approval – 15%
- Foundation Approval – 20%
- Final Plan Approval – Substructure – 15%
- Final Plan Approval – Superstructure – 15%
- Final Plan – for Signature - 25 %
- As-Built Drawings – 10%

DES: P.Y. DWG: P.Y. CKD: G.B.



DES: P.Y. DWG: P.Y. CKD: G.B.

**HYDRAULIC DATA**

DRAINAGE AREA = 25.6 SQ. MI.

FREQ.	MAG.	ELEV.	VEL.
25 YEAR	2200 CFS	1271.47'	8.08 FT/SEC.
100 YEAR	2864 CFS	1274.03'	6.72 FT/SEC.

DES: P.Y. DWG: P.Y. CKD: G.B.

**SUPPLEMENTAL DRAWINGS**

DESCRIPTION	DWG. NO.	RECV'D DATE
TEMPORARY CONCRETE BARRIER, STRUCTURE MOUNTED	BC-719M	10-26-10
PERMANENT METAL DECK FORMS	BC-732M	10-26-10
ANCHOR SYSTEMS	BC-734M	10-26-10
WALL CONSTRUCTION & EXPANSION JOINT DETAILS	BC-735M	10-26-10
REINFORCEMENT BAR FABRICATION DETAILS	BC-736M	5-18-12
BRIDGE BARRIER TO GUIDE RAIL TRANSITION	BC-739M	5-18-12
CONCRETE DECK SLAB DETAILS	BC-752M	5-18-12
MISCELLANEOUS PRESTRESS DETAILS	BC-775M	5-18-12
TYPICAL WATERPROOFING AND EXPANSION DETAILS	BC-788M	5-18-12
CLASSIFICATION OF EARTHWORK FOR STRUCTURES	RC-11M	6-1-10
BACKFILL AT STRUCTURES	RC-12M	10-26-10
GUIDE RAIL TO BRIDGE BARRIER TRANSITIONS	RC-50M	10-26-10
TYPE 2 STRONG POST GUIDE RAIL	RC-52M	10-26-10

ECMS #9419

**COMMONWEALTH OF PENNSYLVANIA**  
 DEPARTMENT OF TRANSPORTATION

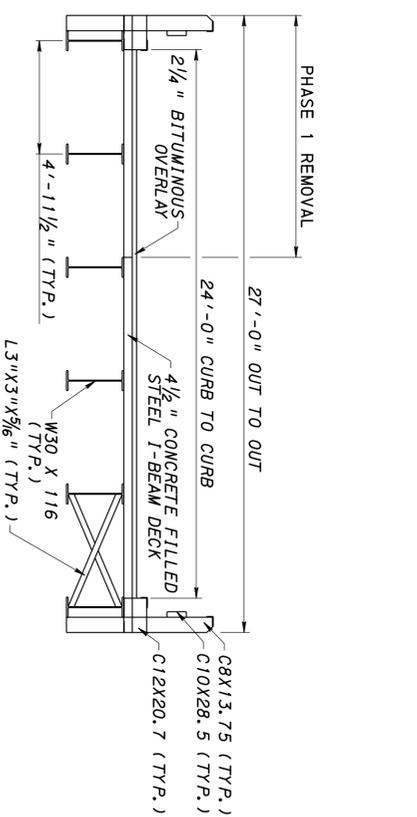
**PIKE COUNTY**  
**S.R. 0739 SEC. 452**  
 SEGMENT 0290 OFFSET 0000  
 S.R. 0739-452 STA. A93+82.76

**BRIDGE REPLACEMENT OVER SHOHOLA CREEK**  
**1-SP COMP P/S CONCRETE I-BEAM BRIDGE**  
**CONCEPTUAL TYPE, SIZE & LOCATION**

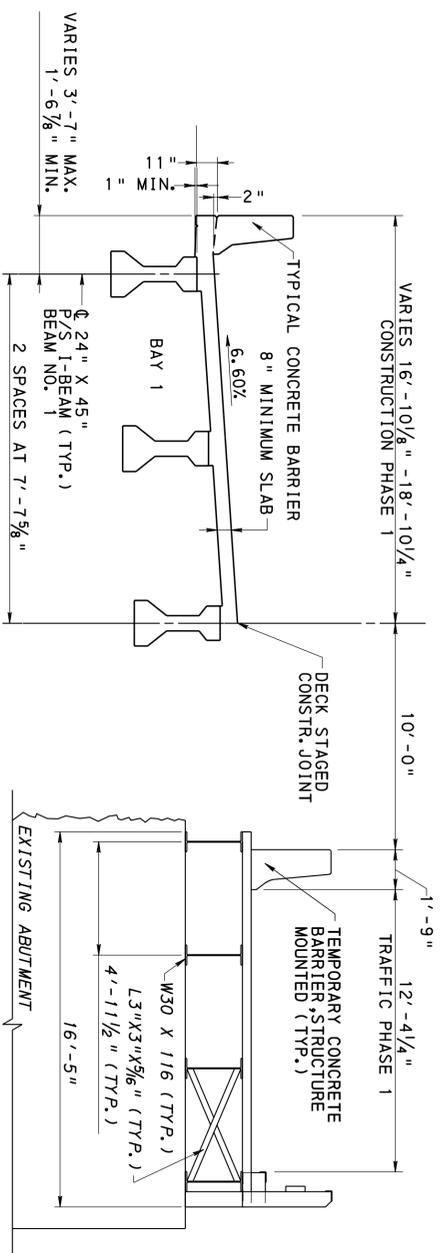
RECOMMENDED \_\_\_\_\_

DISTRICT BRIDGE ENGINEER

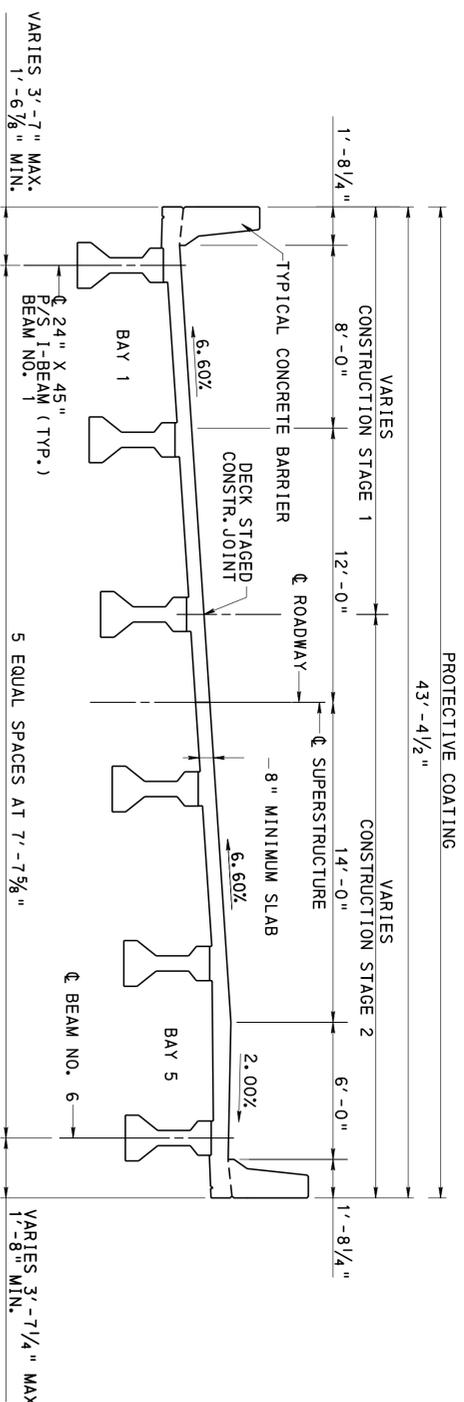
SHEET 1 OF 3 & SUPPLEMENTAL DRAWINGS  
 S- 31651



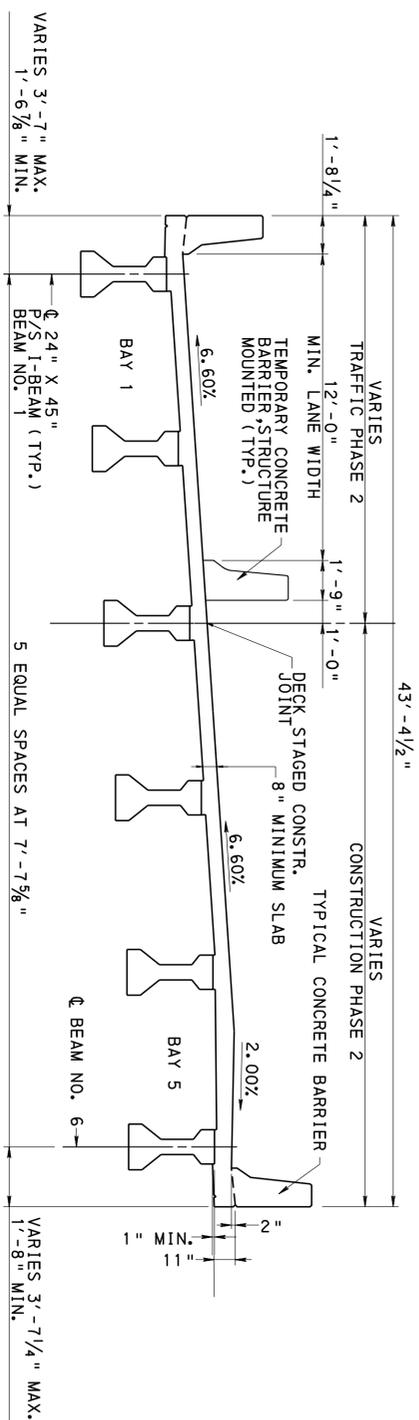
**EXISTING TYPICAL SECTION  
 LOOKING STATIONS AHEAD**  
 SCALE: 1/4" = 1'-0"  
 1 0 1 2 3 FEET



**PHASE 1 CONSTRUCTION  
 STATIONS LOOKING AHEAD**  
 SCALE: 1/4" = 1'-0"  
 1 0 1 2 3 FEET



**PROPOSED TYPICAL SECTION  
 LOOKING STATIONS AHEAD**  
 SCALE: 1/4" = 1'-0"  
 1 0 1 2 3 FEET



**PHASE 2 CONSTRUCTION  
 STATIONS LOOKING AHEAD**  
 SCALE: 1/4" = 1'-0"  
 1 0 1 2 3 FEET

NOTES:  
 1/8" MINIMUM HAUNCH  
 AT THE CENTERLINE OF  
 GIRDER

REVISIONS			
Mark	Description	By	Chk'd, Recm'd, Date

S. R. 0739 PREVIOUSLY KNOWN AS L. R. 0950

**COMMONWEALTH OF PENNSYLVANIA**  
 DEPARTMENT OF TRANSPORTATION

**PIKE COUNTY**  
**S. R. 0739 SEC. 452**  
 SEGMENT 0290 OFFSET 0000  
 S. R. 0739-452 STA. A93+82.76  
 BRIDGE REPLACEMENT OVER SHOHOLA CREEK  
 1-SP COMP P/S CONCRETE I-BEAM BRIDGE  
**TRAFFIC PHASING DETAILS**

RECOMMENDED \_\_\_\_\_ SHEET 2 OF 3

S- 31651

DES: P.Y. DWG: P.Y. CKD: G.B.

**GENERAL NOTES**

PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS PUBLICATION 408/2011 AND THE CONTRACT SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS:  
 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 2010, AND AS SUPPLEMENTED BY DESIGN MANUAL, PART 4, MAY 2012

LIVE LOAD DISTRIBUTION TO GIRDERS IS BASED UPON DW-4 DISTRIBUTION FACTOR METHOD.

DESIGN IS IN ACCORDANCE WITH THE LRFD METHOD.

DESIGN LIVE LOADS:

PHL-93 OR P-82 (204 KIP PERMIT LOAD)

FATIGUE DESIGN IS BASED ON THE FOLLOWING:

PRESTRESSED CONCRETE: ADIT 317 (2032)  
 (ONE-DIRECTIONAL)

MAXIMUM ALLOWABLE TENSILE STRESS IN PRECOMPRESSED TENSILE ZONE: 0.0948\*(SQUARE ROOT(F<sub>c</sub>)).

DEAD LOADS:

INCLUDES A SURFACE AREA DENSITY OF 30 LB/SF FOR FUTURE WEARING SURFACE ON THE DECK SLAB.

INCLUDES A SURFACE AREA DENSITY OF 15 LB/SF FOR PERMANENT METAL DECK FORMS WHICH TAKES INTO ACCOUNT THE WEIGHT OF THE FORM, PLUS THE WEIGHT OF THE CONCRETE IN THE VALLEYS OF THE FORMS.

GENERAL:

STATIONS AND ELEVATIONS ARE GIVEN IN FEET UNLESS OTHERWISE NOTED.

PROVIDE 3" CONCRETE COVER ON REINFORCEMENT BARS FOR THE INTEGRAL ABUTMENTS (I.e. CAPBEAM, END DIAPHRAGM AND WINGWALLS) AND 2" CONCRETE COVER ELSEWHERE EXCEPT AS NOTED.

IF CONCRETE DIAPHRAGMS ARE POURED MONOLITHICALLY WITH THE DECK, USE CLASS AAA CEMENT CONCRETE FOR THE DIAPHRAGMS AT NO ADDITIONAL COST TO THE DEPARTMENT.

USE CLASS AAAP CEMENT CONCRETE IN:

DECK SLAB  
 APPROACH SLABS  
 END DIAPHRAGMS  
 WINGWALLS ABOVE CONSTRUCTION JOINT

USE CLASS AA CEMENT CONCRETE IN:

BARRIERS, INTERMEDIATE CONCRETE DIAPHRAGMS, SAFETY WINGS, CURBS AND SLEEPER SLAB

USE CLASS A CEMENT CONCRETE IN:  
 ABUTMENTS BELOW CONSTRUCTION JOINT  
 WINGWALLS BELOW CONSTRUCTION JOINT  
 FOOTINGS

A HIGHER CLASS CONCRETE MAY BE SUBSTITUTED FOR A LOWER CLASS CONCRETE AT NO ADDITIONAL COST TO THE DEPARTMENT.

PROVIDE GRADE 60 REINFORCING STEEL BARS THAT MEET THE REQUIREMENTS OF ASTM A 615/A 615M, A 996/A 996M, OR A 706/A 706M.  
 DO NOT WELD GRADE 60 REINFORCING STEEL BARS UNLESS SPECIFIED.  
 GRADE 40 REINFORCING STEEL BARS MAY BE SUBSTITUTED WITH A PROPORTIONAL INCREASE IN CROSS-SECTIONAL AREA, IF APPROVED BY THE CHIEF BRIDGE ENGINEER. DO NOT USE RAIL STEEL A 996/A 996M REINFORCEMENT BARS IN BRIDGE ABUTMENTS, SHEAR BLOCKS, BEAMS, FOOTINGS, PILES, BARRIERS OR WHERE BENDING OR WELDING OF THE REINFORCEMENT BARS IS INDICATED.

ALL REINFORCEMENT BARS ARE TO BE EPOXY-COATED  
 GALVANIZED REINFORCEMENT BARS MAY BE SUBSTITUTED FOR EPOXY-COATED REINFORCEMENT BARS AT NO ADDITIONAL COST TO THE DEPARTMENT.

RAKE-FINISH ALL HORIZONTAL CONSTRUCTION JOINTS, EXCEPT AS INDICATED.

SEISMIC FORCES WERE CONSIDERED FOR AN ACCELERATION COEFFICIENT OF 0.15, AND A SITE COEFFICIENT OF 1.00.

USE RETARDER ADMIXTURE CONFORMING TO PUBLICATION 408/2011 IN THE CONCRETE DECK SLAB.

PROVIDE MINIMUM LAP AND EMBEDMENT OF 30 BAR DIAMETERS OR IN ACCORDANCE WITH AASHTO AS MODIFIED BY DW-4, WHICHEVER IS GREATER.

APPLY PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALERS, BRIDGE SUPERSTRUCTURE) IN ACCORDANCE WITH 1019.3(C).

PROVIDE 3/4" THICK, 50 DUROMETER NEOPRENE PADS UNDER ALL BEAMS. ALL PADS WILL BE 12" IN LENGTH. PLACE THE PADS AS SHOWN ON BC-788M STANDARD DRAWING. IN BLOCK UNDER THE BEAMS NOT IN CONTACT WITH THE BEARING PADS USING 1" THICK BACKER RODS.

CHAMFER EXPOSED CONCRETE EDGES 1 IN BY 1 IN, EXCEPT AS NOTED.  
 ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.

USE EITHER PERMANENT METAL FORMS OR REMOVABLE FORMS TO CONSTRUCT THE DECK SLAB.

DECK SLAB THICKNESS INCLUDES A 0.5" INTEGRAL WEARING SURFACE.

SUPERSTRUCTURE DIMENSIONS SHOWN ARE FOR A NORMAL TEMPERATURE OF 68 DEGREES F.

NOTIFY THE REGIONAL HEADQUARTERS OF THE FISH COMMISSION PRIOR TO CONSTRUCTION AND COOPERATE WITH THE FISH COMMISSION DURING CONSTRUCTION. THE WATERWAY CONSERVATION OFFICER FOR THIS PROJECT IS NAME: NORTHEAST REGIONAL OFFICE PA FISH AND BOAT COMMISSION PA FISH AND BOAT COMMISSION  
 ADDRESS: 5666 MAIN ROAD P. O. BOX 88  
 SWEET VALLEY, PA 18696  
 TELEPHONE: (570) 477-5717

EXISTING STRUCTURE NOTES:

THE EXISTING BRIDGE STRUCTURAL MEMBERS CONTAIN LEAD PAINT AND OTHER TOXIC MATERIALS INCLUDING ARSENIC, CADMIUM AND CHROMIUM. REMOVAL AND DISPOSAL OF PAINT OR STRUCTURAL STEEL WILL REQUIRE CONTAINMENT, WORKER PROTECTION, AND POLLUTION CONTROLS.

UTILITY NOTES:

COORDINATE, LOCATE, AND CONDUCT ALL WORK RELATED TO PUBLIC AND PRIVATE UTILITIES IN ACCORDANCE WITH PUBLICATION 408/2011, SECTIONS 105.06 AND 107.12.

PPL ELECTRIC UTILITIES CORPORATION  
 ATTN: MS. CHARLOTTE KRUPA (610) 774-6289  
 2 NORTH NINTH ST./GENTW19  
 ALLENTOWN, PA. 18101-1179

VERIZON NORTH INC.  
 ATTN: DAN BLODNIKAR (570) 253-0048  
 174 BEACH LAKE HIGHWAY  
 HONESDALE, PA. 18431

BLUE RIDGE CABLE TECHNOLOGIES, INC.  
 ATTN: SKIP HUNSICKER (610) 826-2551  
 BOX 215  
 PALMERTON, PA. 18071  
 LACKAWAXEN TELEPHONE COMPANY  
 ATTN: JOE SCHIMITSCH (570) 685-1098  
 P.O. BOX 8  
 104 HOTEL RD.  
 ROWLAND, PA. 18457

INTEGRAL ABUTMENTS:

NOMINALLY COMPACT THE BACKFILL WITHIN A DISTANCE OF 2 FEET WIDE DIRECTLY BEHIND BOTH ABUTMENTS AND ATTACHED WINGWALLS USING TWO PASSES OF A WALK-BEHIND VIBRATORY-PLATE SOIL COMPACTOR. COMPACT THE FILL IN 4 INCH LIFTS FOR 0.6 S<sub>v</sub> OR (AASHTO NO. 57 COARSE AGGREGATE. FILL BEHIND BOTH ABUTMENTS SIMULTANEOUSLY WITH THE DIFFERENCE IN THE FILL DEPTH BETWEEN BOTH ENDS OF THE BRIDGE NOT EXCEEDING 1 FOOT AT ANY POINT OF TIME.

DO NOT USE FLOWABLE FILL AND LARGE STONE FILL IN CONJUNCTION WITH INTEGRAL ABUTMENTS.

PLACE 1" THICK STYROFOAM SHEETS AGAINST THE ENTIRE AREA OF THE BACK FACE OF EACH ABUTMENT BELOW THE BOTTOM OF THE APPROACH SLAB PAVING NOTCH. MANDATORY PRE-DRILLING AND HEAVY DUTY PILE TIPS ARE REQUIRED FOR INTEGRAL ABUTMENTS ON PILES.

FOUNDATION NOTES

THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF ALL EXCAVATED SLOPES AND THE DESIGN OF TEMPORARY SHORING AND BRACING THAT MAY BE USED. DESIGN IS TO BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER. PERFORM ALL EXCAVATIONS IN ACCORDANCE WITH OSHA REQUIREMENTS. DIVERT ALL SURFACE RUNOFF AWAY FROM EXCAVATIONS. PROVIDE SUFFICIENT Dewatering SUCH THAT EXCAVATIONS ARE DRY ENOUGH FOR INSPECTION AND CONSTRUCTION.

USE ONLY ONE ROW OF PILES PER ABUTMENT. USE HP PILES WITH THE WEB ORIENTED PERPENDICULAR TO THE LONGITUDINAL AXIS OF THE BEAM.

DO NOT CUT PILE WEB, FLANGES, OR FOOTING REINFORCEMENT BARS TO ACCOMMODATE REINFORCEMENT BAR REPLACEMENT, UNLESS DIRECTED BY THE ENGINEER.

BEFORE DRIVING PILES, PLACE AND COMPACT TO CAP ELEVATION, SPECIALLY SELECTED MATERIALS WHICH CONTAINS NO ROCK TO INTERFERE WITH PILE DRIVING. AUGERING OR PRE-BORING WILL BE PERMITTED TO THE ORIGINAL GROUND

SUBSTRUCTURE UNITS	PILE TYPE	PILE TIP (Y OR N)	PILE TIP ELEVATION	FACTORED DESIGN LOAD (KIPS)	ULTIMATE PILE CAPACITY AT END OF DRIVING (KIPS)	WEAR OR PDA

Mark	Description	By	CHK'd	Recom'd	Date

S.R. 07391 PREVIOUSLY KNOWN AS L.R. 0950

**COMMONWEALTH OF PENNSYLVANIA**  
 DEPARTMENT OF TRANSPORTATION

**PIKE COUNTY**

**S.R. 0739 SEC. 452**

SEGMENT 0290 OFFSET 0000

S.R. 0739-452 STA. A93+82.76

BRIDGE REPLACEMENT OVER SHOHOLA CREEK

1-SP COMP P/S CONCRETE I-BEAM BRIDGE

**GENERAL NOTES**

RECOMMENDED \_\_\_\_\_

SHEET 3 OF 3

S- 31651

DES: P.Y DWG: P.Y. CKD: G.B.

D-9012 CADD 02/90 REVISED (10-04) PLOTTED 01-MAY-2012 11:02

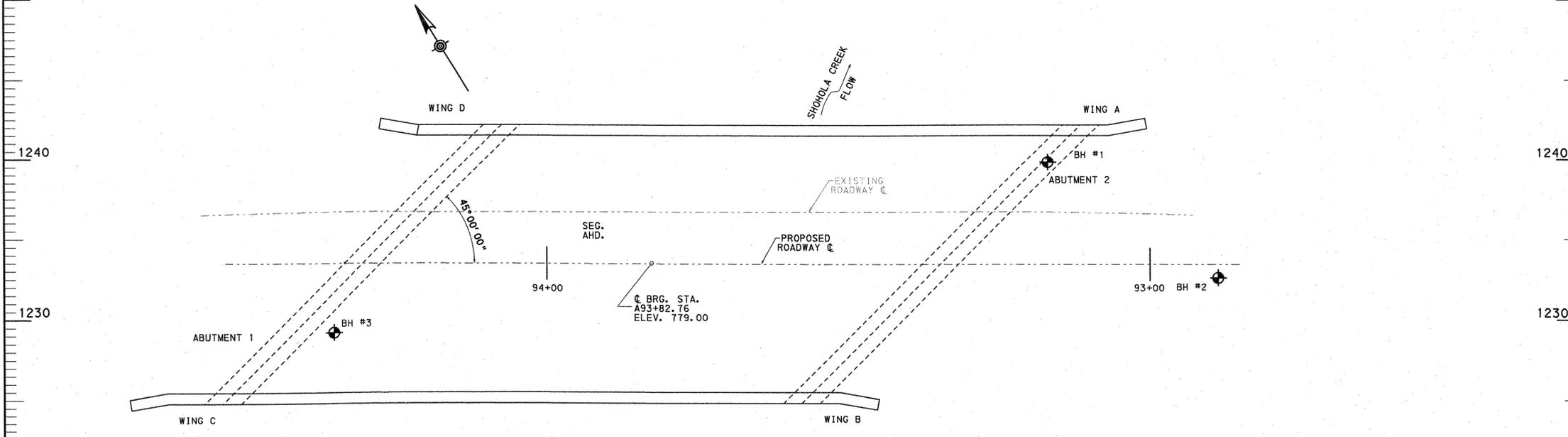
OPERATOR: FILE NAME: F:\b3\ACT 44 Br Idges\51-0739-0290-0000\Drawings\5107390290000\corbor-emas ter. dgn

BORING NUMBER		BORING LOCATION (STATION & OFFSET)		START DATE: 11-04-08					
B-1		A93+21.00 16.00 RT		FINISH DATE: 11-04-08					
VERTICAL SCALE		DRILLING METHOD AND EQUIPMENT:		SIZE OF CORE: 2.0					
1/4" = 1'-0"		SP. SPOON SAMPLE, CORE ROCK		FIELD ENGR. L. ANDRACKI					
A	B	C	D	E	F	G	H	DESCRIPTION	REMARKS
								NOT SAMPLED	
3.0								BROWN SILTY SAND, ROCK FRAGMENTS, MOIST	
4.5	S-1	8-16-15	.25	17%				NOT SAMPLED	
7.5								BROWN SILTY SAND, FINE GRAVEL, MOIST	
9.0	S-2	10-6-4	.58	39%				NOT SAMPLED	
12.0								FINE GRAVEL, BROWN SILTY SAND, MOIST	COBBLESTONE
13.5	S-3	50/0.3	.17	56%				NOT SAMPLED	
16.5								ROCK FRAGMENTS, BROWN SILTY SAND, MOIST	
17.3	S-4	15-50/.3		31%				17.3-19.7 GRAY SANDSTONE 19.7-19.9 SOIL SEAM 19.9-21.5 GRAY SILSTONE	
21.5	R-1		4.0	96% RQD. 32%				21.5-22.7 GRAY SILSTONE 22.7-22.8 SOIL SEAM 22.8-24.8 GRAY SILSTONE 24.8-26.5 GRAY SANDSTONE WITH LAYERS OF SILTSTONE	
26.5	R-2		4.92	98% RQD. 8%				26.5-27.8 GRAY SILTSTONE	
31.5	R-3		5.00	100% RQD. 22%				27.8-31.5 GRAY SANDSTONE	

BORING NUMBER		BORING LOCATION (STATION & OFFSET)		START DATE: 11-05-08					
B-2		A92+37.38 00.89 LT		FINISH DATE: 11-05-08					
VERTICAL SCALE		DRILLING METHOD AND EQUIPMENT:		SIZE OF CORE: 2.0					
1/4" = 1'-0"		SP. SPOON SAMPLE, CORE ROCK		FIELD ENGR. L. ANDRACKI					
A	B	C	D	E	F	G	H	DESCRIPTION	REMARKS
								NOT SAMPLED	
3.0								BROWN SILTY SAND, FINE GRAVEL, MOIST	
4.5	S-1	5-21-26	.50	33%				NOT SAMPLED	
7.5								ROCK FRAGMENT, FINE GRAVEL, MOIST	
9.0	S-2	47-27-20	.16	11%				NOT SAMPLED	
12.0								12.4-13.8 GRAY SANDSTONE 13.8-13.9 SOIL SEAM	
12.4	S-3	50/0.4		0	0				
16.5	R-1			4.08	100% RQD. 27%			13.9-16.5 GRAY SANDSTONE 16.5-16.8 GRAY SANDSTONE 16.8-17.4 GRAY SILSTONE 17.4-18.8 GRAY SANDSTONE 18.8-19.8 GRAY SILSTONE 19.8-19.9 SOIL SEAM 19.9-20.1 GRAY SILTSTONE	
21.5	R-2			5.0	100% RQD. 22%				
				3.75	94% RQD.				
25.5	R-3				27%			GRAY SANDSTONE	

**GENERAL NOTES**

COLUMN A - PROFILE DEPTH IN FEET  
 COLUMN B - SAMPLE NUMBER AND TYPE OR RUN NUMBER  
 COLUMN C - NUMBER OF BLOWS FOR EVERY 0.5' (EXCEPT AS NOTED) ON SPOON SAMPLER FOR SPT  
 COLUMN D - AMOUNT OF RECOVERY IN FEET  
 COLUMN E - % OF NX CORE RECOVERY AND ROCK QLTY. DESIGNATION (RQD) PERCENTAGES SHOWN AS RECOVERY % / RQD %  
 COLUMN F - POCKET PENETROMETER OR TORVANE PRESSURE IN TSF  
 COLUMN G - USCS OR AASHTO CLASSIFICATION  
 COLUMN H - SOIL SYMBOL  
 COLUMN I - H2O CONTENT  
 SEE SHEET FOR BORING LOCATION LAYOUT.  
 FOR ADDITIONAL GENERAL NOTES AND LEGEND, AND SOIL AND ROCK DESCRIPTION REFER TO BC-795  
 ▼ ELEV. GROUND WATER ELEVATION  
 — HR. IN FEET / HOUR  
 — DATE  
 TRE - TOP OF ROCK ELEVATION IN FEET  
 SBE - STREAM BED ELEVATION IN FEET  
 PFE - PROPOSED FOOTING ELEVATION IN FEET  
 PTE - PILE TIP ELEVATION IN FEET  
 BCE - BOTTOM OF CULVERT ELEVATION  
 SE - SURFACE ELEVATION IN FEET  
 O.G. ELEVATION --ogeelev--



**CORE BORING LOCATIONS**

HOLE #	STATION	OFFSET
BH-1	A93+21.00	16.00 RT
BH-2	A92+37.38	0.89 LT
BH-3	A94+32.10	10.70 LT
BH-4	A93+98.70	45.96 RT



Mark	Description	By	Chk'd	App'd	Date
REVISIONS					
L.G. HETAGER DRILLING, INC. DRILLER					
PENNDOT DISTRICT 4-0 CONSULTANT					
THE SUBSURFACE EXPLORATION DATA THAT ARE PRESENTED ON THESE DRAWINGS (INCLUDING BORING LOGS, EARTH SAMPLES, ROCK CORES, CLASSIFICATION OF MATERIALS AND DEPTH OF BORINGS) ACCURATELY REPRESENT THE CONDITIONS ENCOUNTERED BY THE TEST BORING PROGRAM AT EACH BORING LOCATION.					

THIS SHEET IS INCLUDED FOR THE CONVENIENCE OF THE DEPARTMENT AND SHALL NOT BE CONSIDERED AS A PART OF THE CONTRACT DRAWINGS. (SEE SECTION 102.05 OF PUBLICATION 408.)

**COMMONWEALTH OF PENNSYLVANIA**  
**DEPARTMENT OF TRANSPORTATION**  
**PIKE COUNTY**  
**S.R. 0739 SEC. 452**  
**SEGMENT 0290 OFFSET 0000**  
**STA. A93+92.76**  
**OVER SHOHOLA CREEK**  
**SINGLE-SPAN INTEGRAL ABUTMENT BRIDGE**  
**SOILS BORINGS**



## **ABSTRACT**

### **SR 0739, SECTION 452 SEGMENT 0290, OFFSET 0000**

### **SHOHOLA CREEK**

### **BLOOMING GROOVE TOWNSHIP PIKE COUNTY**

The project site is located in Blooming Groove Township, Pike County on SR 739 over Shohola Creek. A drainage area of 25.60 square miles was used for hydraulic and hydrologic computer runs and calculations.

The existing structure is a steel I beam bridge with a concrete filled steel grid deck with a normal waterway opening of 36'-10" with a beam length of 54' and is skewed at 45°, and has an under clearance of 10'-8 ½". There is a confluence of three creeks upstream of this structure; Shohola Creek, York Creek and Billings Creek. There is one structure on Billings Creek. It is (3) 60" corrugated metal pipes with a combined hydraulic opening of 59 sq. ft. There are two bridges at the intersection of York Creek and Interstate 84 segments 0334 off 0738 and segment 325 offset 0668, both have a span of 114'-8", they have an under clearances of 13'-10" and 16' respectively. Their hydraulic openings are 1178 sq. ft. and 930 sq. ft. respectively. There is one bridge on the Shohola Creek. It is upstream before the confluence of the 3 creeks. It has a 7' under clearance and a span length of 17' with a hydraulic opening of 119sq.ft.

The scope of work is to replace the existing structures with a 90' pre-stressed concrete I-beam bridge on a 45° skew. The proposed hydraulic opening will be 59'-7 ½" horizontally and 9'-7 ½" vertically with a total area of 524 sq. ft. The proposed structure is designed for the passage of the flow from the 25 year design flood frequency in accordance with Penndot Design Manual 2, page10-63.

There is currently no detailed base flood area for this location by FEMA.

**PRELIMINARY HYDROLOGIC AND HYDRAULIC REPORT**  
**PIKE COUNTY, BLOOMING GROVE TOWNSHIP**  
**SR 0739, SECTION 452, SEGMENT 290, OFFSET 0000**  
**Over the SHOHOLA CREEK**

This report is prepared in accordance with PENNDOT Design Manual 2 and Strike-Off Letter 431-99-11 by the Engineering District 4 Bridge Unit

**1. Site Data**

- a. The Project is located in Blooming Grove Township which is located on the Pecks Pond U.S.G.S. Quadrangle Map. Both the Quadrangle Map and the Project Location Map are on pages 4-5.
- b. Water flow is continuous with the waterway being classified as a High Quality – Cold Water Fish, Migratory Fish as per Chapter 93 of the Pennsylvania Waterway Standards List 93.3.i.
- c. There was no stream bed sample taken. The average d50 size is 0.273” for the project area. The side slopes are covered with heavy vegetation. The areas adjacent to the side slopes are wooded.
- d. Color Photographs of the existing structure location, upstream and downstream are located on pages 11-20.
- e. Site Inspection records are located on the attached form 432 and form 433 on pages 25 & 27.

**2. Hydrologic Analysis**

- a. The drainage area is 25.589 square miles. It was calculated with the use of the U.S.G.S. Streamstats website. The drainage area map is on page 6.
- b. The peak flow rates were also determined using U.S.G.S. StreamStats website. It determined the flow rates for the 2.33, 5, 10, 50, 100, 500 year storm events. Streamstats output is on pages 7 - 9. A graph in Microsoft Excel was used to plot the flood frequency and determine the 25 year storm event flow rate. The graph is located on page 10.

**3. Hydraulic Analysis**

- a. The existing and purposed conditions have been evaluated with the use of HEC-RAS Version 4.1. The existing structure is a steel I-beam bridge with a normal opening of 34’ - 7 ¾” horizontally and 10’ - 8 ½” vertically which accommodates the 25 year flows. The recommended structure type is a Pre-stressed Concrete I- Beam Bridge

with a 59' - 7 1/2" normal water way opening and a vertical clearance of 9' - 7 1/2" and a one and one half to one side slopes under the bridge. This recommendation is based on a HEC-RAS analysis using a 25 year design flow rate of 2200 cfs, A graph of the 25 yr flood is on page 9 of this report. The proposed bridge will provide 1.73' of freeboard.

b. Bridge:

1. Charts generated by HEC-RAS showing the comparison between the existing and proposed water surface and velocity For the 25 year design storm are on pages 28 - 31.
2. As per Design Manual 4 Section 7.2.5 and velocities taken from HEC-RAS at the structure, R-8 rock chokes with R-4's will be used to reduce the risk of scour along the abutments.
3. The stream flow will remain continuous through the project site while construction is ongoing. Stream flow will uninterrupted, because existing abutments will remain in place until the new abutments are placed.

**4. Risk Assesment**

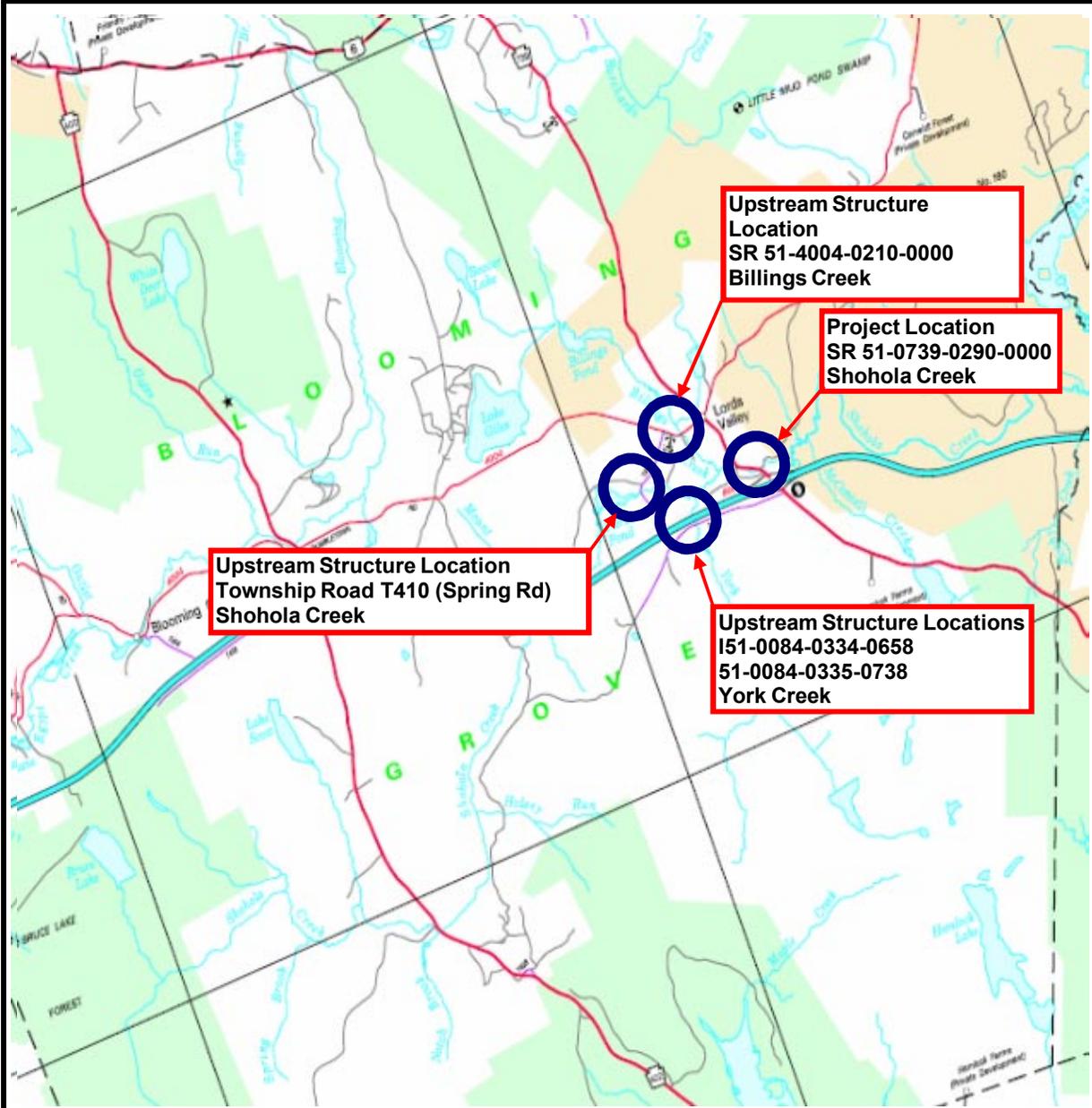
HEC-RAS hydraulic calculations were performed for the 100-year flood in order to assess the risk of potential flood damage caused by the proposed structure. The larger hydraulic opening of the proposed bridge results in a reduction of the upstream water surface elevation for the 100-year storm when compared to the existing water surfaces. Therefore, it is anticipated that there will be no additional risk to people or property at the proposed bridge location.

**5. Summary Data Sheet**

The summary data sheet is in the body of the report on page 32.

**6. Drawings**

The plan showing the existing and proposed structure with the staged construction is in the body of the report on page 33 & 35.



Upstream Structure Location  
SR 51-4004-0210-0000  
Billings Creek

Project Location  
SR 51-0739-0290-0000  
Shohola Creek

Upstream Structure Location  
Township Road T410 (Spring Rd)  
Shohola Creek

Upstream Structure Locations  
I51-0084-0334-0658  
51-0084-0335-0738  
York Creek



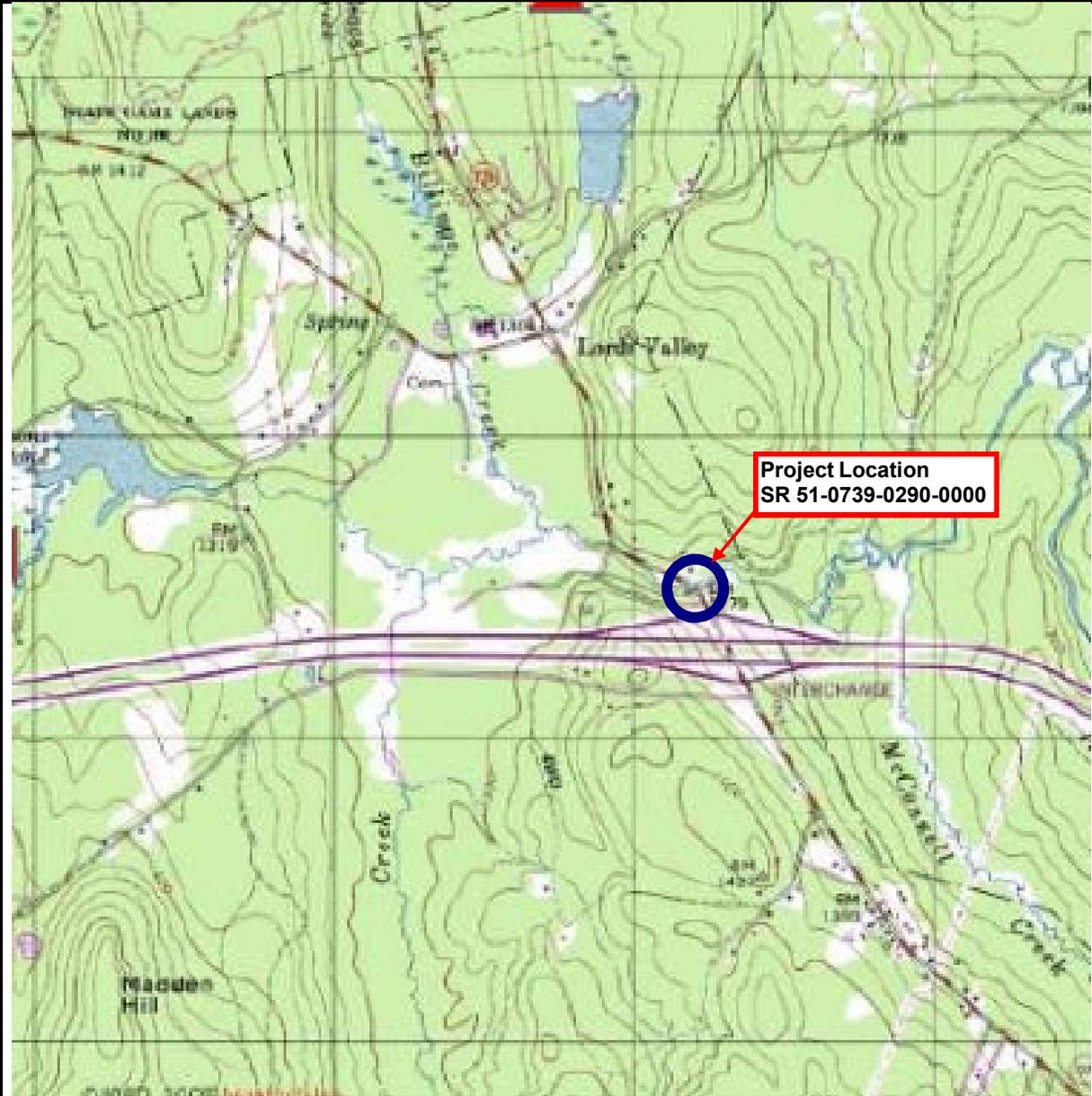
### Project Location Map

Year Built: 1950  
Water Way: Shohola Creek  
BMS# 51-0739-0290-0000  
MPMS# 9419



**PIKE COUNTY**  
**S.R. 0739**  
**SEG. 0290 OFFSET 0000**

*Legend*  
 Project Location



### Project Location Map

Year Built: 1950

Water Way: Shohola Creek

BMS# 51-0739-0290-0000

MPMS# 9419



**PIKE COUNTY**  
**S.R. 0739**  
**SEG. 0290 OFFSET 0000**

*Legend*  
 Project Location

http://streamstatsags.cr.usgs.gov - USGS StreamStats - Windows Internet Explorer provided by CADD

# USGS Pennsylvania StreamStats

Zoom To: 1:100,748

Results >>>  
Map Contents >>>  
Navigation >>>  
Overview >>>

USGS some base map material provided by Maptech, Inc. (Copyright © 2009)

[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

U.S. Department of the Interior | U.S. Geological Survey  
URL: [http://streamstatsags.cr.usgs.gov/pa\\_ss/default.aspx](http://streamstatsags.cr.usgs.gov/pa_ss/default.aspx)  
Page Contact Information: StreamStats Help  
Page Last Modified: 12/29/2010 10:49:58

[Streamstats Status](#) [News](#)

AutoRefreshMap:25,0,5 Wed Dec 29 11:16:00 EST 2010/Wed Dec 29 11:17:33 EST 2010



## Basin Characteristics Report

**Date: Wed Dec 29 2010 09:20:32 Mountain Standard Time**

**NAD27 Latitude: 41.3598 (41 21 35)**

**NAD27 Longitude: -75.0574 (-75 03 27)**

**NAD83 Latitude: 41.3599 (41 21 36)**

**NAD83 Longitude: -75.0570 (-75 03 25)**

Parameter	Value
Stream density (miles/square mile)	1.61
Depth to rock in feet	5.258
Percent of area covered by forest	81.8111
Total stream length in miles	41.2
Area in square miles	25.589
Unadjusted basin slope, in degrees	4.4784
Mean annual precipitation in inches	42.700
Percent of area covered by lakes, ponds, reservoirs and wetlands	12.8664
Percent of area covered by glacial activity	100.0000
Mean Basin Elevation in feet	1490
Percent of area covered by urban	4.7054
Percent of area covered by carbonate bedrock	0.0000
Adjusted basin slope, in degrees	4.28



## Streamstats Ungaged Site Report

Date: Mon Mar 21 2011 11:53:53 Mountain Daylight Time

Site Location: Pennsylvania

NAD27 Latitude: 41.3598 (41 21 35)

NAD27 Longitude: -75.0574 (-75 03 27)

NAD83 Latitude: 41.3599 (41 21 36)

NAD83 Longitude: -75.0570 (-75 03 25)

Drainage Area: 25.589 mi<sup>2</sup>

<b>Low Flow Basin Characteristics</b>			
<b>100% Low Flow Region 5 (25.6 mi<sup>2</sup>)</b>			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	25.6	4.84	982
Mean Annual Precipitation (inches)	42.700	33.1	47.1
Percent of Glaciation (percent)	100.0000	0	100
Percent Forest (percent)	81.8111	41	100

<b>Mean/Base-flow Basin Characteristics</b>			
<b>100% Statewide Mean and Base Flow (25.6 mi<sup>2</sup>)</b>			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	25.6	2.26	1720
Mean Basin Elevation (feet)	1490	130	2700
Mean Annual Precipitation (inches)	42.700	33.1	50.4
Percent Carbonate (percent)	0.0000	0	99
Percent Forest (percent)	81.8111	5.1	100
Percent Urban (percent)	4.7054	0	89

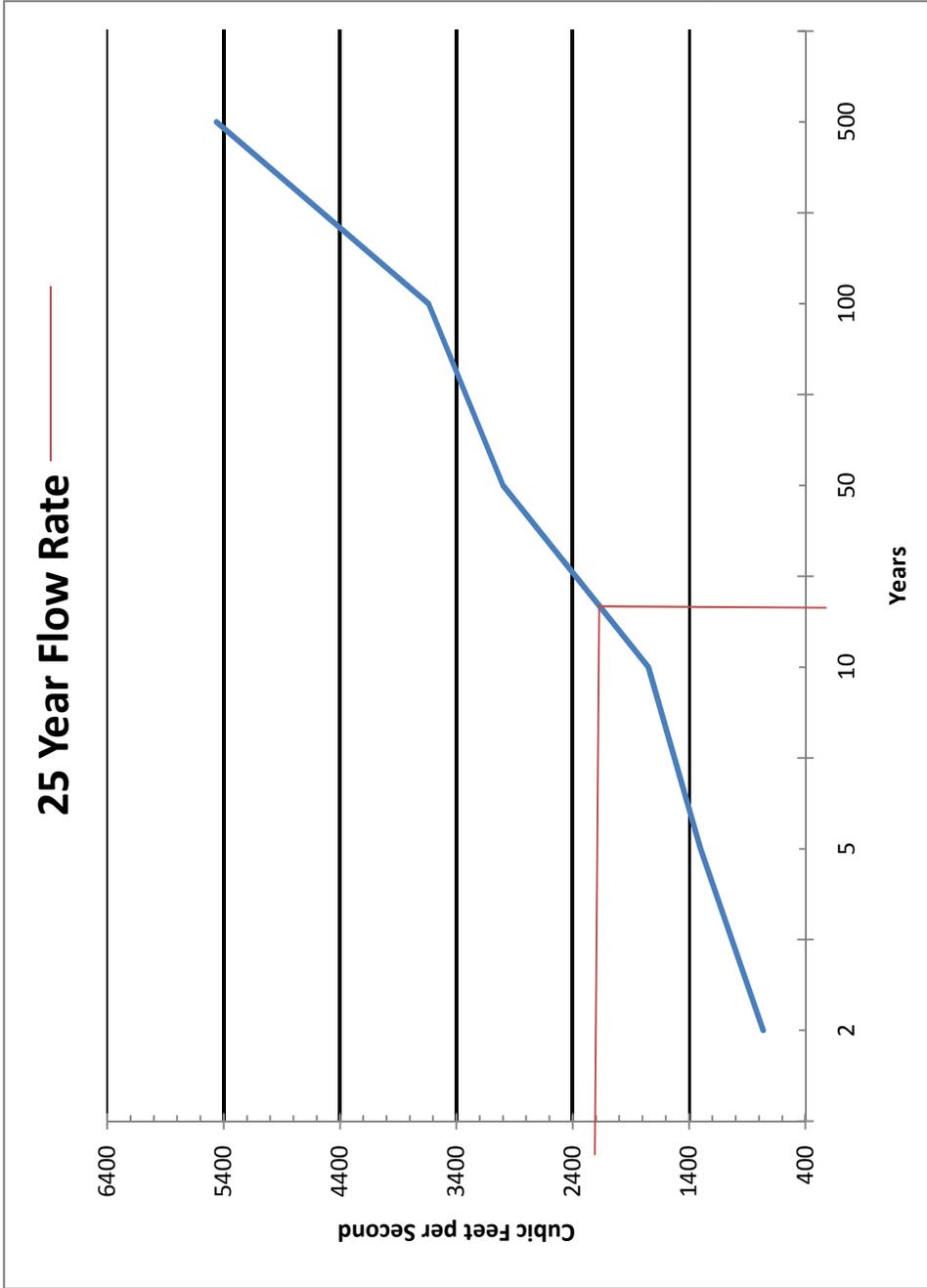
<b>Peak Flow Basin Characteristics</b>			
<b>100% Peak Flow Region 1 (25.6 mi<sup>2</sup>)</b>			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	25.6	1.72	1280
Mean Basin Elevation (feet)	1490	0	1960

Percent Carbonate (percent)	0.0000	0	83
Percent Urban (percent)	4.7054	0	20
Percent Storage (percent)	12.8664	0	21.2

<b>Low Flow Streamflow Statistics</b>					
Statistic	Flow (ft <sup>3</sup> /s)	Standard Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
				Minimum	Maximum
M7D2Y	2.87	38			
M30D2Y	4	33			
M7D10Y	1.17	57			
M30D10Y	1.65	51			
M90D10Y	2.72	41			

<b>Mean/Base-flow Streamflow Statistics</b>					
Statistic	Flow (ft <sup>3</sup> /s)	Standard Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
				Minimum	Maximum
QA	42.9	12			
QAH	10	38			
BF10YR	16.9	21			
BF25YR	15.1	21			
BF50YR	14.1	23			

<b>Peak Flow Streamflow Statistics</b>					
Statistic	Flow (ft <sup>3</sup> /s)	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
				Minimum	Maximum
PK2	763	33	3		
PK5	1300	31	6		
PK10	1750	31	9		
PK50	3000	36	13		
PK100	3640	38	13		
PK500	5460	46	14		



# PHOTO LOCATION MAP

N.T.S.

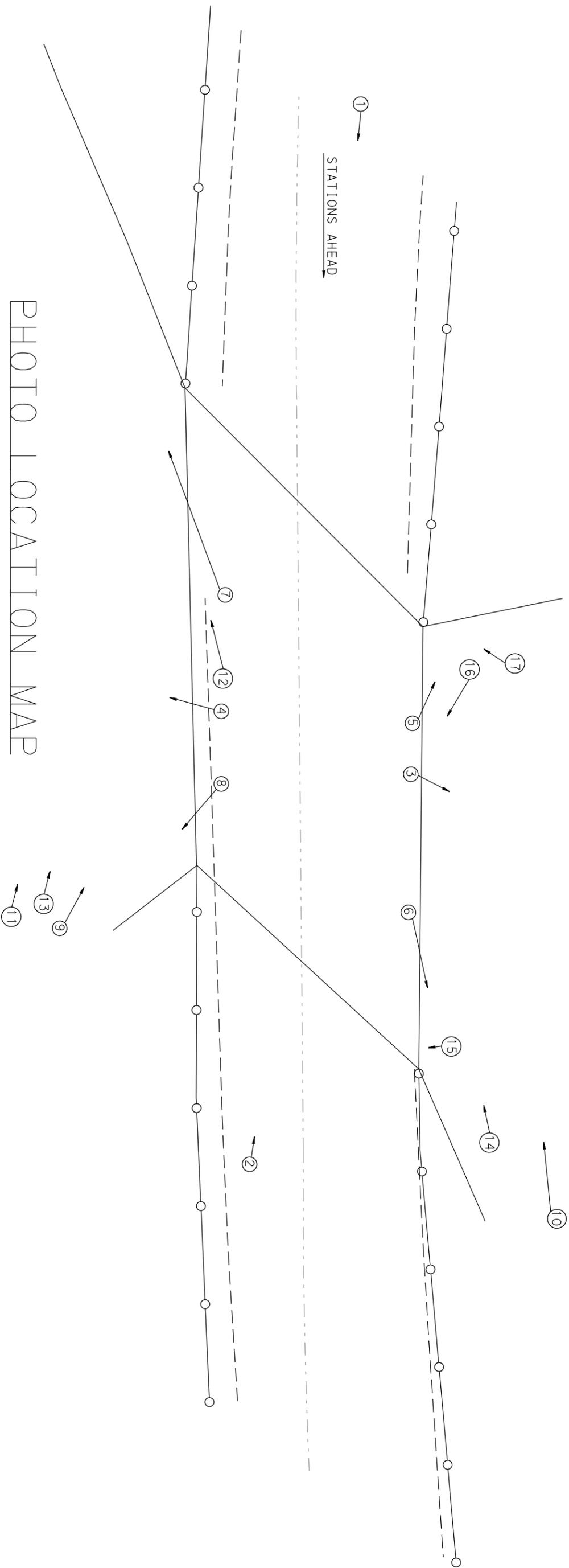




Photo 1. Segments back looking segments ahead towards structure



Photo 2. Segments ahead looking segments back towards structure



Photo 3. Looking upstream from structure



Photo 4. Looking downstream from structure



Photo 5. Looking at corner off Near Abutment Wing Left



Photo 6. Looking at corner off Near Abutment Wing Right



Photo 7. Looking at corner off Far Abutment Wing Right



Photo 8. Looking at corner off Far Abutment Wing Left

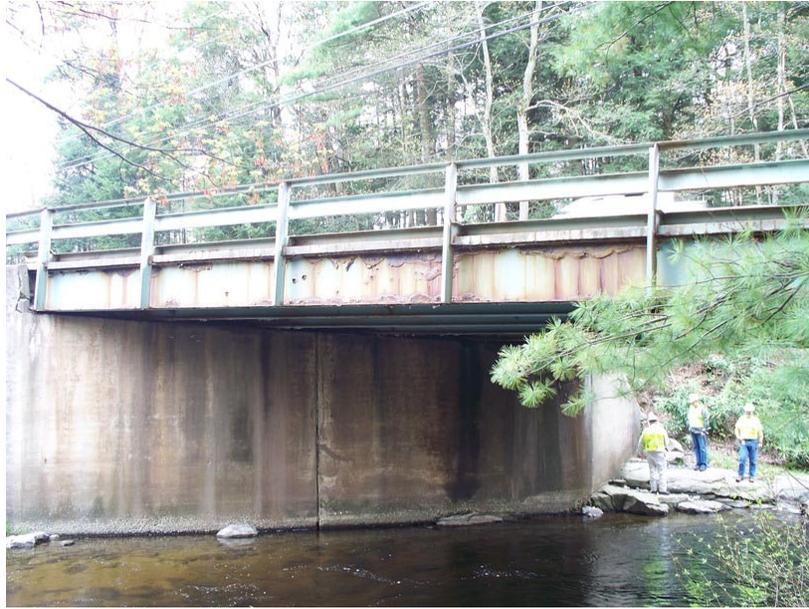


Photo 9. Downstream looking upstream towards structure



Photo 10. Upstream looking downstream towards structure



Photo 11. Looking at Near Abutment Wing Right



Photo 12. Looking at Far Abutment Wing Right



Photo 13. Looking at Far Abutment upstream side



Photo 14. Close-up Far Abutment bearing area under Fascia Beam



Photo 15. Looking at underside of deck Near Abutment upstream side



Photo 16. Looking at Far Abutment



Photo 17. Looking at corner of Far Abutment upstream side

## 1. PROJECT INFORMATION

Project Name: **SR 739 Seg 290**

Date of review: **7/9/2012 9:03:04 AM**

Project Category: **Transportation, Bridge - demolition and/or construction (replacement) on existing alignment (Boring, piers, abutments, causeways, temporary stream crossings)**

Project Area: **0.0** acres

County: **Pike** Township/Municipality: **Blooming Grove**

Quadrangle Name: **PECKS POND** ~ ZIP Code: **18464**

Decimal Degrees: **41.359918 N, -75.056954 W**

Degrees Minutes Seconds: **41° 21' 35.7" N, -75° 3' 25" W**



## 2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.

### 3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

#### PA Game Commission

**RESPONSE:** No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### PA Department of Conservation and Natural Resources

**RESPONSE:** No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### PA Fish and Boat Commission

**RESPONSE:** No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### U.S. Fish and Wildlife Service

**RESPONSE:** No impacts to federally listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

### 4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application should be submitted to DEP along with the PNDI receipt. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

### 5. ADDITIONAL INFORMATION

The PNDI environmental review website is a **preliminary** screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page ([www.naturalheritage.state.pa.us](http://www.naturalheritage.state.pa.us)). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

### 6. AGENCY CONTACT INFORMATION

#### PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section  
400 Market Street, PO Box 8552, Harrisburg, PA.  
17105-8552  
Fax:(717) 772-0271

#### U.S. Fish and Wildlife Service

Endangered Species Section  
315 South Allen Street, Suite 322, State College, PA.  
16801-4851  
NO Faxes Please.

#### PA Fish and Boat Commission

Division of Environmental Services  
450 Robinson Lane, Bellefonte, PA. 16823-7437  
NO Faxes Please

#### PA Game Commission

Bureau of Wildlife Habitat Management  
Division of Environmental Planning and Habitat Protection  
2001 Elmerton Avenue, Harrisburg, PA. 17110-9797  
Fax:(717) 787-6957

### 7. PROJECT CONTACT INFORMATION

Name: \_\_\_\_\_  
Company/Business Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Phone:(\_\_\_\_\_) \_\_\_\_\_ Fax:(\_\_\_\_\_) \_\_\_\_\_  
Email: \_\_\_\_\_

### 8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

\_\_\_\_\_ date  
applicant/project proponent signature



# Pennsylvania Fish & Boat Commission

Division of Environmental Services  
450 Robinson Lane  
Bellefonte, PA 16823-9620  
(814) 359-5145

February 15, 2011

FOR GERRY  
Babinski

IN REPLY REFER TO  
SIR# 35815

PENNDOT Engineering District 4-0  
Ms. Amy Lolli  
55 Keystone Industrial Park  
Dunmore, PA 18512

RE: Species Impact Review (SIR) - Rare, Candidate, Threatened and Endangered Species  
SR 739, Section 452 Bridge Replacement on New Alignment  
PNDI Search No. 20110131280676  
Blooming Grove Township, Pike County, Pennsylvania

Dear Ms Lolli:

I have examined the information accompanying your recent correspondence, which shows the location for the above-referenced project. Based on records maintained in the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files, the state candidate eastern mudminnow (*Umbra pygmaea*) is known from the vicinity of the project.

This fish species is especially vulnerable to physical (dredging, rip-rap, etc.) and chemical (pH, dissolved oxygen, temperature, heavy metals and organic contaminants) changes to the aquatic environment. Although the mobile adults of this protected fish species may be capable of moving from the project area, their spawning grounds (including eggs, fry, and immature fish) are vulnerable to burial, crushing by equipment, and siltation from in-stream construction projects. We are concerned about potential impacts to the fish, eggs and hatching fry from any in-stream work associated with this project. Therefore, we request that **all in-stream activity be avoided from March 15 to June 1 in order to avoid adverse impacts during the spawning season for this species.** Likewise, all work should be done during low flow periods, and strict erosion and sedimentation control measures need to be employed. Provided that these recommendations are followed and that best management practices are employed, then I do not anticipate the proposed activity to have any significant adverse impacts to the species of special concern or any other rare or protected species under Pennsylvania Fish & Boat Commission jurisdiction.

Thank you for your cooperation and attention to this matter of rare, threatened, and endangered-species conservation.

Sincerely,

Bill Savage, Fisheries Biologist

c: DEP-NE Region Pete Kawash/Matt Curry

**Our Mission:**

[www.fish.state.pa.us](http://www.fish.state.pa.us)

*To protect, conserve and enhance the Commonwealth's aquatic resources and provide fishing and boating opportunities.*

SI 07370 90000

Ross-Williams 3-1-89

IRON-STEEL OR TIMBER BRIDGE RECORD

Holder Bone 7/24/85

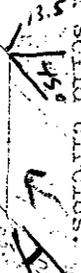
Owner: P.D.H.  
 By Leg. Act No. \_\_\_\_\_  
 Erected: P.D.H.  
 By: \_\_\_\_\_  
 Cost: \_\_\_\_\_

Maintained By: P.D.H.  
 Extent: \_\_\_\_\_  
 P.S.C.-P.U.C. Order# \_\_\_\_\_  
 Dated: \_\_\_\_\_  
 Plan No. S-104A

County: Pike Sheet: 1 of 3  
 Trp. Blainville, Pa. Leg. Rte. 950  
 Boro. \_\_\_\_\_ Tr. Rte. \_\_\_\_\_  
 City \_\_\_\_\_ Sta. 793+77  
 Str. or Railroad \_\_\_\_\_  
 Field Book No. Plan Page \_\_\_\_\_  
 Quad. N. 21 E. 16. 100  
 Drain Area 26.443 A. Runoff 7141  
 Str. Slope 4.45% Sealed-Survised  
 Opening 322 Ft. Efficiency 75%  
 Appr. By \_\_\_\_\_ Date \_\_\_\_\_  
 H.W. \_\_\_\_\_ Above-Below Br. Ft. Sf. \_\_\_\_\_  
 H.W. Elev. 1427.8 Date \_\_\_\_\_

Members	Vert. Clear	Type	Safe Load	Lev'l's and Size	Span C-C or Length	Panels or Spacing	C-C Trusses or C-C Girders	C-C Chords or B-B Flgs	Connected with
SPRINGERS		I BEAM	30' x 10' x 8'	WE 116#	50' 4-11/16"				
GIRDERS									
FLOOR BEAMS									
TRUSSES									
RDY. FLOOR SIDEWALKS WEAR SURF									
SUBSTRUCTURE									
ABUTMENTS									
PIERS									
TEMP. PIERS									

8/9/99 Walker Sando  
 SKETCH FIELD: (A) Plan including approaches, length of wings, abutments and piers (B) Side Elevation of bridge showing outline of structure, clear spans, width of abutment and pier tops, underclearances, grades and profile on centerline of roadway including approaches (C) Cross-Section of bridge showing roadway and sidewalk widths, overhead clearance, super-elevation, etc. Show location of occupancies on plan, elevation and cross-section by dashed lines and solid circles.



7-13-07 ORLANDINI-SEBRER  
 7-11-07 ORLANDINI-MCDONOUGH  
 7-6-05 JENNIS-BARRETT  
 7-23-03 ORLANDINI-DUOH  
 7-25-01 ROSS-ALLEN

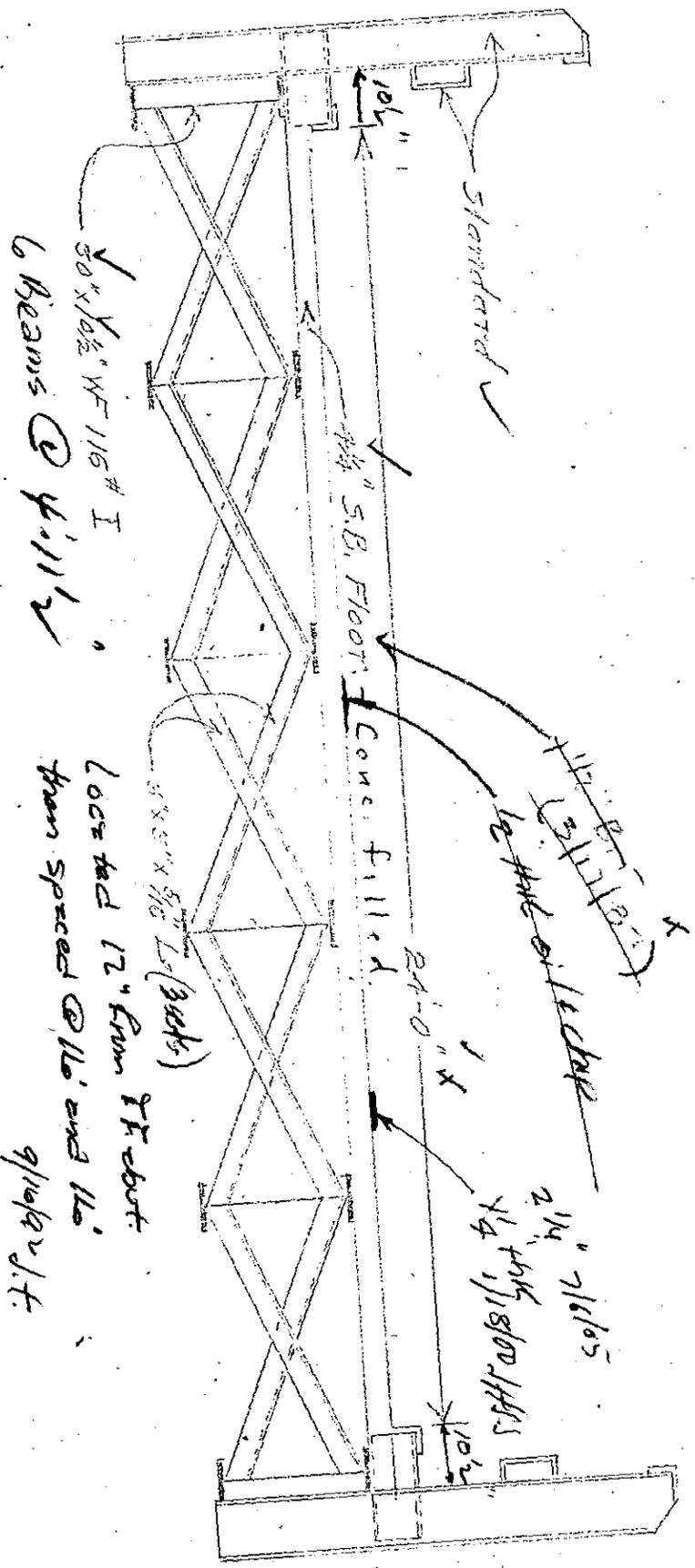
Order	No.	License	Appr.	Fee

Date	Tons	Area	No. Coats	Cost
1/27				

ROSS & ALLEN 4-26-81  
 LOUGHRAN & SMUTER 7-15-94  
 TR 739 Abd  
 3/17/81 IN A MOUNTAIN  
 REMARKS  
 Condition \_\_\_\_\_  
 Inspected by Ed Fern Date 7/6/89

COMMONWEALTH OF PENNSYLVANIA  
 DEPARTMENT OF HIGHWAYS  
 SUPPLEMENTARY BRIDGE RECORD

SKETCHES BELOW: Show makeup and size of members, details of connections, etc.  
 sketches are not necessary if detailed plans are available.



6 Beams @ 4' 11 1/2"  
 30 x 10 1/2" WF 115 # I

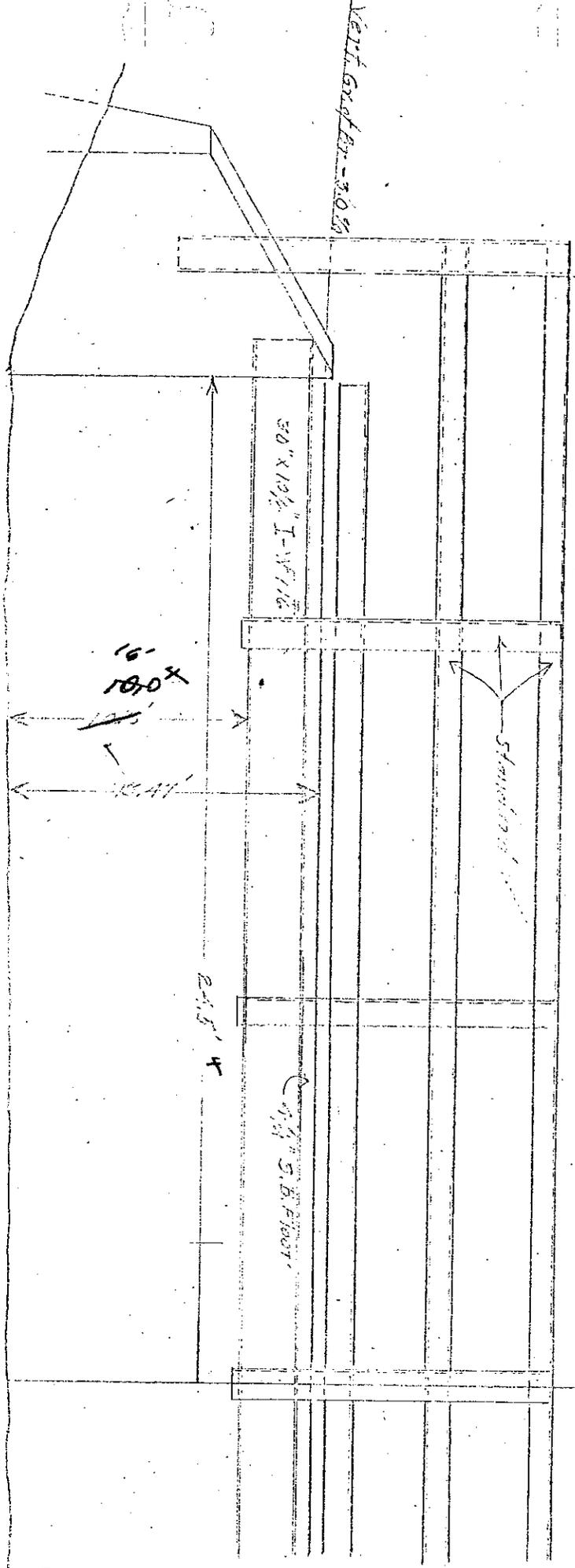
Located 12" from IT about  
 from spaced @ 11' and 11' 6"  
 9/10/22 J.T.

Country Pa  
 Log. Rte. 280  
 Tr. Rte. 793  
 Sta. 647

Field Measurements by \_\_\_\_\_ On \_\_\_\_\_ Sketch by CAK On 2/13/21

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF HIGHWAYS  
SUPPLEMENTARY DRAWING RECORD

SKETCH BELOW: Show makeup and size of members, details of connections, etc.  
Sketches are not necessary if detailed plans are available.



County Pike Sheet 2 of 2  
 Leg. Pts. 1  
 City ... Tr. Pts. 1  
 State Pa.

Field measurements by ... On ... Sketch by CHK On 2/13/51

HEC-RAS Plan: Pro90 River: Stream Reach: Reach

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Crit W.S. (ft)	Frctn Loss (ft)	C & E Loss (ft)	Top Width (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Vel Chnl (ft/s)
Reach	1250.000	Q 2.33	1272.59	1271.35	1271.35	1.08	0.23	34.68		763.00		8.94
Reach	1250.000	Q 5	1273.54	1272.64	1272.64	0.83	0.05	122.32	210.67	1089.00	0.33	8.21
Reach	1250.000	Q10	1274.10	1273.07	1273.07	0.85	0.04	123.56	402.60	1346.31	1.09	9.06
Reach	1250.000	Q 50	1275.36	1273.99	1273.99	0.60	0.20	126.01	997.68	1997.04	5.28	10.95
Reach	1250.000	Q 100	1275.92	1274.37	1274.37	0.48	0.29	126.93	1321.23	2310.34	8.43	11.75
Reach	1250.000	Q500	1277.50	1276.11		0.27	0.28	131.10	2457.38	2974.80	27.82	11.39
Reach	1250.000	Q 25	1274.59	1273.43	1273.43	0.86	0.04	124.60	608.20	1589.53	2.27	9.82
Reach	1100.504	Q 2.33	1269.45	1268.98	1268.03	0.33	0.05	49.14		763.00		5.49
Reach	1100.504	Q 5	1271.17	1267.96	1268.94	2.14	0.23	46.24		1300.00		14.37
Reach	1100.504	Q10	1271.66	1270.77	1269.58	0.34	0.08	54.24		1750.00		7.55
Reach	1100.504	Q 50	1273.72	1273.02	1271.20	0.23	0.15	182.91	349.02	2601.63	49.35	7.16
Reach	1100.504	Q 100	1274.60	1274.03	1272.47	0.18	0.19	187.45	713.60	2846.01	80.39	6.72
Reach	1100.504	Q500	1276.95	1276.51	1273.50	0.12	0.30	198.60	1754.22	3553.89	151.89	6.22
Reach	1100.504	Q 25	1272.48	1271.47	1270.16	0.33	0.09	80.28	4.41	2190.79	4.81	8.08
Reach	1022 BR U	Q 2.33	1269.06	1268.05	1268.05	0.23	0.20	46.49		763.00		8.08
Reach	1022 BR U	Q 5	1270.34	1268.95	1268.95			49.06		1300.00		9.45
Reach	1022 BR U	Q10	1271.24	1269.59	1269.59	0.29	0.25	50.87		1750.00		10.33
Reach	1022 BR U	Q 50	1273.34	1271.14	1271.14	0.30	0.29	57.06		3000.00		11.91
Reach	1022 BR U	Q 100	1274.23	1271.81	1271.81	0.30	0.30	59.58		3640.00		12.50
Reach	1022 BR U	Q500	1276.53	1273.11	1273.11	0.35	0.43	53.45		5460.00		14.83
Reach	1022 BR U	Q 25	1272.06	1270.16	1270.16	0.29	0.28	52.51		2200.00		11.04
Reach	1022 BR D	Q 2.33	1266.80	1266.47	1265.04	1.34	0.24	48.87		763.00		4.66
Reach	1022 BR D	Q 5	1268.91	1264.69	1265.91	1.14	0.28	46.68		1300.00		16.48
Reach	1022 BR D	Q10	1269.87	1265.15	1266.53	1.05	0.31	47.24		1750.00		17.44
Reach	1022 BR D	Q 50	1272.08	1266.30	1268.06	0.91	0.36	48.67		3000.00		19.29
Reach	1022 BR D	Q 100	1273.02	1266.86	1268.73	0.85	0.37	49.36		3640.00		19.92
Reach	1022 BR D	Q500	1275.30	1268.36	1270.47	0.87	0.35	51.21		5460.00		21.15
Reach	1022 BR D	Q 25	1270.74	1265.58	1267.11	0.99	0.33	47.77		2200.00		18.23
Reach	932.7425	Q 2.33	1266.55	1266.14		0.33	0.05	67.40		763.00		5.17
Reach	932.7425	Q 5	1267.48	1266.55	1265.88			109.54		1300.00		7.75
Reach	932.7425	Q10	1268.25	1266.64	1266.53	0.58	0.36	121.07		1750.00		10.17
Reach	932.7425	Q 50	1270.43	1268.04	1268.04	0.63	0.54	158.98		3000.00		12.40
Reach	932.7425	Q 100	1271.40	1268.72	1268.72	0.62	0.62	170.36		3640.00		13.15
Reach	932.7425	Q500	1273.78	1270.67	1270.67	0.57	0.71	218.86		5406.34	53.66	14.23

HEC-RAS Plan: Pro90 River: Stream Reach: Reach (Continued)

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Crit W.S. (ft)	Frctn Loss (ft)	C & E Loss (ft)	Top Width (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Vel Chnl (ft/s)
Reach	932.7425	Q 25	1269.08	1267.09	1267.09	0.61	0.46	140.09		2200.00		11.31
Reach	850.0000	Q 2.33	1266.17	1265.93		0.20	0.03	156.69	41.38	310.46	411.16	5.21
Reach	850.0000	Q 5	1266.84	1266.52	1265.96	0.21	0.04	163.81	82.44	456.65	760.91	6.08
Reach	850.0000	Q10	1267.30	1266.90		0.21	0.04	185.51	123.93	573.63	1052.44	6.72
Reach	850.0000	Q 50	1268.32	1267.73	1267.01	0.24	0.06	256.52	246.33	887.96	1865.71	8.30
Reach	850.0000	Q 100	1269.61	1266.29	1267.23	1.74	0.06	161.05	217.77	1343.08	2079.15	19.44
Reach	850.0000	Q500	1271.88	1266.59	1268.24	1.69	0.22	167.19	352.27	1892.26	3215.47	24.59
Reach	850.0000	Q 25	1267.70	1267.24	1266.53	0.22	0.05	205.40	176.58	684.28	1339.14	7.26

HEC-RAS Plan: Existing River: Stream Reach: Reach

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Crit W.S. (ft)	Frctn Loss (ft)	C & E Loss (ft)	Top Width (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Vel Chnl (ft/s)
Reach	1250.000	Q 2.33	1272.59	1271.35	1271.35	0.81	0.24	34.68		763.00		8.94
Reach	1250.000	Q 5	1273.54	1272.64	1272.64	0.67	0.04	122.32	210.67	1089.00	0.33	8.21
Reach	1250.000	Q10	1274.10	1273.20	1273.07	0.50	0.09	123.94	434.67	1313.99	1.34	8.56
Reach	1250.000	Q 50	1277.07	1276.75		0.11	0.01	133.54	1409.71	1572.50	17.80	5.52
Reach	1250.000	Q 100	1278.43	1278.14		0.09	0.00	142.06	1806.61	1799.85	33.54	5.36
Reach	1250.000	Q500	1282.20	1281.95		0.05	0.02	170.78	2951.54	2378.47	129.99	4.98
Reach	1250.000	Q 25	1275.28	1274.86		0.18	0.03	128.10	867.58	1325.68	6.74	6.17
Reach	1100.504	Q 2.33	1270.98	1270.52	1268.96	0.39	0.27	42.47	36.95	726.05		5.52
Reach	1100.504	Q 5	1272.56	1271.81	1270.14			116.65	52.34	1245.78	1.88	7.09
Reach	1100.504	Q10	1273.52	1272.91	1270.90			122.86	284.12	1455.93	9.95	6.82
Reach	1100.504	Q 50	1276.95	1276.67	1273.13	0.13	0.85	146.22	1173.09	1755.41	71.51	5.12
Reach	1100.504	Q 100	1278.34	1278.05	1273.61	0.12	0.96	196.06	1418.42	2097.29	124.29	5.38
Reach	1100.504	Q500	1282.13	1281.95	1274.73	0.07	1.48	237.83	2747.06	2388.32	324.61	4.56
Reach	1100.504	Q 25	1275.07	1274.74	1271.41	0.18	0.65	132.76	672.52	1494.76	32.72	5.41
Reach	1012 BR U	Q 2.33	1270.32	1268.97	1268.97	0.20	0.28	30.18		763.00		9.31
Reach	1012 BR U	Q 5	1272.29	1271.19	1270.19			34.30		1300.00		8.42
Reach	1012 BR U	Q10	1273.45	1272.05	1271.02			34.30		1750.00		9.51
Reach	1012 BR U	Q 50	1275.98	1272.88	1272.88			34.30		3000.00		14.12
Reach	1012 BR U	Q 100	1277.25	1273.75	1273.75			34.30		3640.00		15.03
Reach	1012 BR U	Q500	1280.58	1275.45	1275.45			29.10		5460.00		18.17
Reach	1012 BR U	Q 25	1274.24	1271.73	1271.73	0.10	0.49	34.30		2200.00		12.72
Reach	1012 BR D	Q 2.33	1268.87	1264.82	1266.04	0.63	0.81	25.67		763.00		16.16
Reach	1012 BR D	Q 5	1269.19	1267.28	1267.28			31.01		1300.00		11.08
Reach	1012 BR D	Q10	1270.38	1268.22	1268.22			34.30		1750.00		11.78
Reach	1012 BR D	Q 50	1274.57	1268.21	1270.10	0.42	0.98	34.30		3000.00		20.24
Reach	1012 BR D	Q 100	1275.84	1268.92	1270.96	0.39	1.02	34.30		3640.00		21.11
Reach	1012 BR D	Q500	1279.12	1270.75	1273.12	0.49	0.97	34.30		5460.00		23.22
Reach	1012 BR D	Q 25	1272.85	1267.23	1268.93	0.45	0.93	30.90		2200.00		19.03
Reach	932.7425	Q 2.33	1267.22	1266.80	1265.60	0.15	0.17	113.07	165.98	597.02		5.83
Reach	932.7425	Q 5	1267.97	1266.96	1266.74	0.33	0.41	115.27	323.18	976.82		9.09
Reach	932.7425	Q10	1269.06	1266.57	1267.58			97.08	432.93	1317.07		13.75
Reach	932.7425	Q 50	1270.06	1269.42	1268.41	0.15	0.24	161.20	1458.45	1519.79	21.76	8.02
Reach	932.7425	Q 100	1272.40	1267.36	1268.80	2.49	0.94	120.51	1135.66	2504.34		20.93
Reach	932.7425	Q500	1276.29	1267.60	1269.76	2.74	0.09	124.96	1909.49	3550.51		27.85

HEC-RAS Plan: Existing River: Stream Reach: Reach (Continued)

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Crit W.S. (ft)	Frctn Loss (ft)	C & E Loss (ft)	Top Width (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Vel Chnl (ft/s)
Reach	932.7425	Q 25	1269.13	1268.45	1267.82	0.18	0.25	141.21	947.47	1250.62	1.91	7.99
Reach	850.0000	Q 2.33	1266.90	1266.82	1265.36	0.04	0.01	180.81	52.05	253.72	457.23	3.05
Reach	850.0000	Q 5	1267.23	1267.04	1265.96	0.08	0.02	193.27	93.09	418.25	788.66	4.71
Reach	850.0000	Q10	1268.00	1267.82	1266.26	0.07	0.02	257.35	158.59	509.30	1082.11	4.66
Reach	850.0000	Q 50	1269.67	1269.51	1266.96	0.05	0.01	285.91	629.51	707.25	1663.25	4.60
Reach	850.0000	Q 100	1268.74	1268.13	1267.25	0.21	0.05	260.27	431.39	1002.37	2206.24	8.53
Reach	850.0000	Q500	1269.71	1268.97	1268.25	0.25	0.03	270.37	978.58	1341.38	3140.04	9.61
Reach	850.0000	Q 25	1268.69	1268.52	1266.54	0.05	0.01	264.02	327.89	570.14	1301.97	4.46

## Summary Data Sheet

### Location Data

County	Pike		Municipality	Blooming GroveTwp.			
Location - U.S.G.S. Map	Blooming Grove		State Route - Section	0739-0452			
Latitude	41.35967 N		Station				
Longitude	75.05726 W		Segment/Offset	0290/0000			
Present ADT:	1079	Year:	2006	Future ADT:	1511	Year:	2027
River Basin (US-ACOE)	Ohio	Delaware	Susquehanna	Great Lakes			

### Channel Data

Stream Name	Shohola Cr.		Side Slope (looking downstream)	Left:	2.0:1	Right:	2.0:1
Stream Slope	1.45%		Type of Channel	Trap			
Normal Stream Flow Depth	6"		Average Top Width	Variable			
Stream Bed Elevation at Inlet	1264'		Average Bottom Width	40'			
Stream Bed Elev. ~500' upstream	Exact Dist.	500'	Stream Bed Elev. ~500' downstream	Dist.	500'		
	Elevation	1272'		n	1258'		
Average Stream Channel Depth	1'		High Water Elev. and Date	Not Available			

### Hydrology

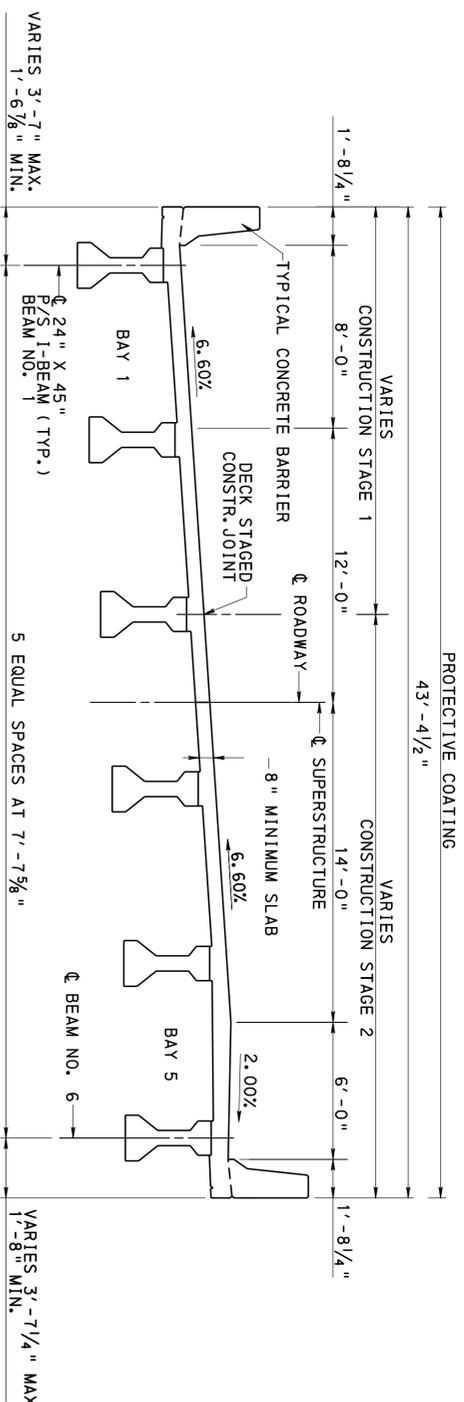
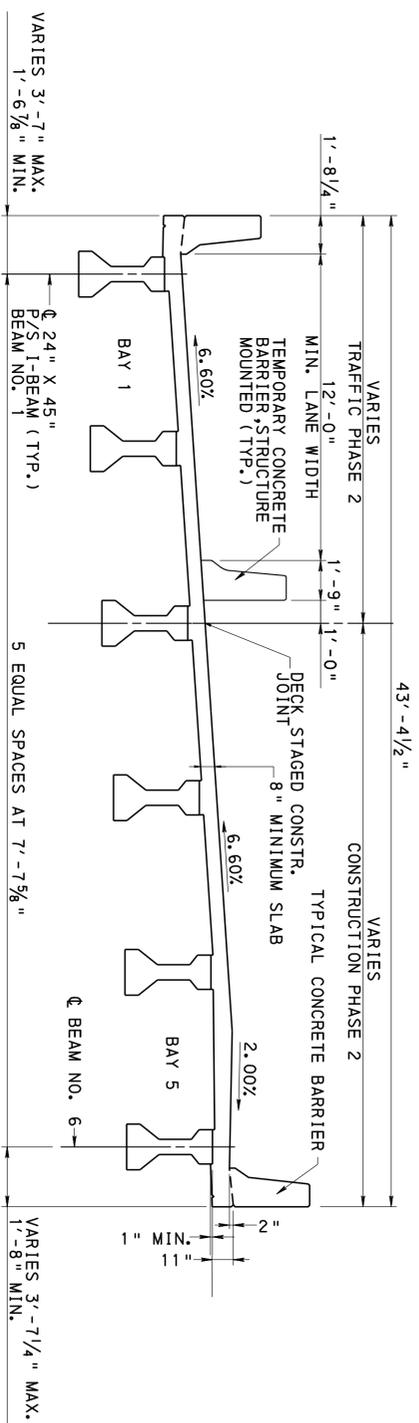
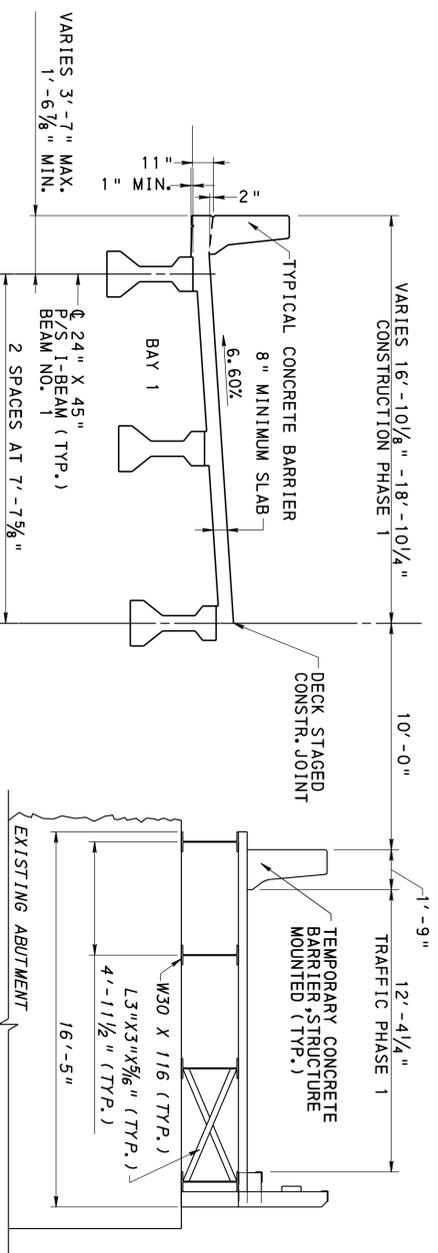
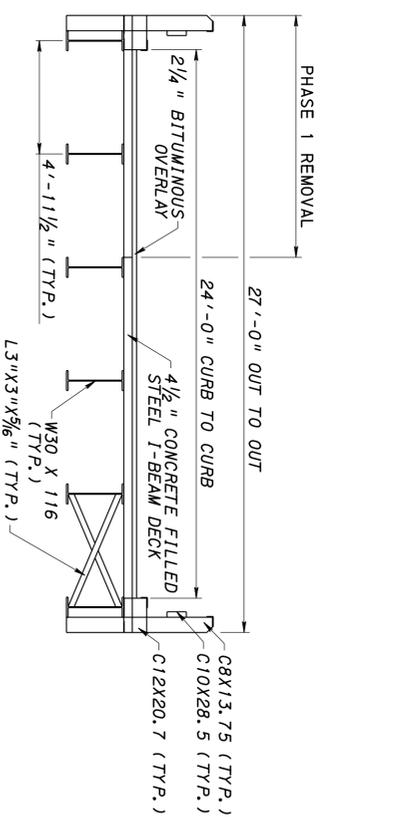
	PennDOT Study	FEMA (if applicable)	Other:	USGS StreamStats
Hydrology Method Used				USGS StreamStats
Drainage Area (sq. miles)				25.589
Q10 (CFS)				1750
Q25 (CFS)*				2200
Q50 (CFS)				3000
Q100 (CFS)				3640
Q500 (CFS)				5460

### Hydraulics

<i>EXISTING STRUCTURE</i>				<i>PROPOSED STRUCTURE</i>			
Bridge Type	FILLED STL. GRID DECK			Bridge Type	P/S Conc. I-Beam Brdg.		
Span - Centerline	51.00'			Span - Centerline	90'		
Span - Normal	34.65'			Span - Normal	59.68'		
Skew	45°			Skew	45°		
Minimum Underclearance	10.708'			Minimum Underclearance	9.625'		
Length of Channel Impacted	34'			Length of Channel Impacted	55'		
Number of Spans	1			Number of Spans	1		
Low Chord Elevation	1274.63			Low Chord Elevation	1272.98'		
Hydraulic Method Used	HEC-RAS			Hydraulic Method Used	HEC-RAS		
<b>Hydraulic Data</b>							
Return Period*	Q	WSE	Velocity	Return Period*	Q	WSE	Velocity
10	1750	1272.91	6.82	10	1750	1270.77	7.55
✓ 25	2200	1274.74	5.41	✓ 25	2200	1271.47	8.08
50	3000	1276.67	5.12	50	3000	1273.02	7.16
100	3460	1278.05	5.38	100	3460	1274.03	6.72
500	5460	1281.95	4.56	500	5460	1276.45	6.28

\*Indicate Design Return Period with a ✓ at the appropriate year. Or if year is not shown, fill in Design Return Period in blank row.





**EXISTING TYPICAL SECTION  
LOOKING STATIONS AHEAD**  
SCALE: 1/4" = 1'-0"  
1 0 1 2 3 FEET

**PHASE 1 CONSTRUCTION  
STATIONS LOOKING AHEAD**  
SCALE: 1/4" = 1'-0"  
1 0 1 2 3 FEET

**PROPOSED TYPICAL SECTION  
LOOKING STATIONS AHEAD**  
SCALE: 1/4" = 1'-0"  
1 0 1 2 3 FEET

NOTES:  
1 1/8" MINIMUM HAUNCH AT THE CENTERLINE OF GIRDER

REVISIONS			
Mark	Description	By	Chk'd, Recm'd, Date

S. R. 0739 PREVIOUSLY KNOWN AS L. R. 0950

**COMMONWEALTH OF PENNSYLVANIA**  
 DEPARTMENT OF TRANSPORTATION  
**PIKE COUNTY**  
**S. R. 0739 SEC. 452**  
 SEGMENT 0290 OFFSET 0000  
 S. R. 0739-452 STA. A93+82.76  
 BRIDGE REPLACEMENT OVER SHOHOLA CREEK  
 1-SP COMP P/S CONCRETE I-BEAM BRIDGE  
**TRAFFIC PHASING DETAILS**

RECOMMENDED	SHEET 2 OF 3
	S- 31651

DES: P.Y. DWG: P.Y. CKD: G.B.

**GENERAL NOTES**

PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS PUBLICATION 408/2011 AND THE CONTRACT SPECIAL PROVISIONS.  
 DESIGN SPECIFICATIONS:  
 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 2010, AND AS SUPPLEMENTED BY DESIGN MANUAL, PART 4, MAY 2012  
 LIVE LOAD DISTRIBUTION TO GIRDERS IS BASED UPON DM-4 DISTRIBUTION FACTOR METHOD.  
 DESIGN IS IN ACCORDANCE WITH THE LRFD METHOD.  
 DESIGN LIVE LOADS:  
 PHL-93 OR P-82 (204 KIP PERMIT LOAD)  
 FATIGUE DESIGN IS BASED ON THE FOLLOWING:  
 PRESTRESSED CONCRETE: ADIT 317 (2032)  
 (ONE-DIRECTIONAL)  
 MAXIMUM ALLOWABLE TENSILE STRESS IN PRECOMPRESSED TENSILE ZONE: 0.0948\*(SQUARE ROOT F<sub>c</sub>).  
 DEAD LOADS:  
 INCLUDES A SURFACE AREA DENSITY OF 30 LB/SF FOR FUTURE WEARING SURFACE ON THE DECK SLAB.  
 INCLUDES A SURFACE AREA DENSITY OF 15 LB/SF FOR PERMANENT METAL DECK FORMS WHICH TAKES INTO ACCOUNT THE WEIGHT OF THE FORM, PLUS THE WEIGHT OF THE CONCRETE IN THE VALLEYS OF THE FORMS.  
 GENERAL:  
 STATIONS AND ELEVATIONS ARE GIVEN IN FEET UNLESS OTHERWISE NOTED.  
 PROVIDE 3" CONCRETE COVER ON REINFORCEMENT BARS FOR THE INTEGRAL ABUTMENTS (I.e. CAPBEAM, END DIAPHRAGM AND WINGWALLS) AND 2" CONCRETE COVER ELSEWHERE EXCEPT AS NOTED.  
 IF CONCRETE DIAPHRAGMS ARE POURED MONOLITHICALLY WITH THE DECK, USE CLASS AAA CEMENT CONCRETE FOR THE DIAPHRAGMS AT NO ADDITIONAL COST TO THE DEPARTMENT.  
 USE CLASS AAAP CEMENT CONCRETE IN:  
 DECK SLAB  
 APPROACH SLABS  
 END DIAPHRAGMS  
 WINGWALLS ABOVE CONSTRUCTION JOINT  
 USE CLASS AA CEMENT CONCRETE IN:  
 BARRIERS, INTERMEDIATE CONCRETE DIAPHRAGMS, SAFETY WINGS, CURBS AND SLEEPER SLAB  
 USE CLASS A CEMENT CONCRETE IN:  
 ABUTMENTS BELOW CONSTRUCTION JOINT  
 WINGWALLS BELOW CONSTRUCTION JOINT  
 FOOTINGS  
 A HIGHER CLASS CONCRETE MAY BE SUBSTITUTED FOR A LOWER CLASS CONCRETE AT NO ADDITIONAL COST TO THE DEPARTMENT.  
 PROVIDE GRADE 60 REINFORCING STEEL BARS THAT MEET THE REQUIREMENTS OF ASTM A 615/A 615M, A 996/A 996M, OR A 706/A 706M.  
 DO NOT WELD GRADE 60 REINFORCING STEEL BARS UNLESS SPECIFIED.  
 GRADE 40 REINFORCING STEEL BARS MAY BE SUBSTITUTED WITH A PROPORTIONAL INCREASE IN CROSS-SECTIONAL AREA, IF APPROVED BY THE CHIEF BRIDGE ENGINEER. DO NOT USE RAIL STEEL A 996/A 996M REINFORCEMENT BARS IN BRIDGE ABUTMENTS, SHEAR BLOCKS, BEAMS, FOOTINGS, PILES, BARRIERS OR WHERE BENDING OR WELDING OF THE REINFORCEMENT BARS IS INDICATED.  
 ALL REINFORCEMENT BARS ARE TO BE EPOXY-COATED  
 GALVANIZED REINFORCEMENT BARS MAY BE SUBSTITUTED FOR EPOXY-COATED REINFORCEMENT BARS AT NO ADDITIONAL COST TO THE DEPARTMENT.  
 RAKE-FINISH ALL HORIZONTAL CONSTRUCTION JOINTS, EXCEPT AS INDICATED.  
 SEISMIC FORCES WERE CONSIDERED FOR AN ACCELERATION COEFFICIENT OF 0.15, AND A SITE COEFFICIENT OF 1.00.  
 USE RETARDER ADMIXTURE CONFORMING TO PUBLICATION 408/2011 IN THE CONCRETE DECK SLAB.  
 PROVIDE MINIMUM LAP AND EMBEDMENT OF 30 BAR DIAMETERS OR IN ACCORDANCE WITH AASHTO AS MODIFIED BY DM-4, WHICHEVER IS GREATER.  
 APPLY PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALERS, BRIDGE SUPERSTRUCTURE) IN ACCORDANCE WITH 1019.3(C).  
 PROVIDE 3/4" THICK, 50 DUROMETER NEOPRENE PADS UNDER ALL BEAMS. ALL PADS WILL BE 12" IN LENGTH. PLACE THE PADS AS SHOWN ON BC-788M STANDARD DRAWING. PLACE THE PADS UNDER THE BEAMS NOT IN CONTACT WITH THE BEARING PADS USING 1" THICK BACKER RODS.

CHAMFER EXPOSED CONCRETE EDGES 1 IN BY 1 IN, EXCEPT AS NOTED.  
 ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.  
 USE EITHER PERMANENT METAL FORMS OR REMOVABLE FORMS TO CONSTRUCT THE DECK SLAB.  
 DECK SLAB THICKNESS INCLUDES A 0.5" INTEGRAL WEARING SURFACE.  
 SUPERSTRUCTURE DIMENSIONS SHOWN ARE FOR A NORMAL TEMPERATURE OF 68 DEGREES F.  
 NOTIFY THE REGIONAL HEADQUARTERS OF THE FISH COMMISSION PRIOR TO CONSTRUCTION AND COOPERATE WITH THE FISH COMMISSION DURING CONSTRUCTION. THE WATERWAY CONSERVATION OFFICER FOR THIS PROJECT IS NAME: NORTHEAST REGIONAL OFFICE PA FISH AND BOAT COMMISSION PA FISH AND BOAT COMMISSION  
 ADDRESS: 5666 MAIN ROAD P.O. BOX 88  
 SWEET VALLEY, PA 18656  
 TELEPHONE: (570) 477-5717  
 EXISTING STRUCTURE NOTES:  
 THE EXISTING BRIDGE STRUCTURAL MEMBERS CONTAIN LEAD PAINT AND OTHER TOXIC MATERIALS INCLUDING ARSENIC, CADMIUM AND CHROMIUM. REMOVAL AND DISPOSAL OF PAINT OR STRUCTURAL STEEL WILL REQUIRE CONTAINMENT, WORKER PROTECTION, AND POLLUTION CONTROLS.  
 UTILITY NOTES:  
 COORDINATE, LOCATE, AND CONDUCT ALL WORK RELATED TO PUBLIC AND PRIVATE UTILITIES IN ACCORDANCE WITH PUBLICATION 408/2011, SECTIONS 105.06 AND 107.12.  
 PPL ELECTRIC UTILITIES CORPORATION  
 ATTN: MS. CHARLOTTE KRUPA (610) 774-6289  
 2 NORTH NINTH ST./GENTW19  
 ALLENTOWN, PA. 18101-1179  
 VERIZON NORTH INC.  
 ATTN: DAN BLODNIKAR (570) 253-0048  
 174 BEACH LAKE HIGHWAY  
 HONESDALE, PA. 18431  
 BLUE RIDGE CABLE TECHNOLOGIES, INC.  
 ATTN: SKIP HUNSICKER (610) 826-2551  
 BOX 215  
 PALMERTON, PA. 18071  
 LACKAWAXEN TELEPHONE COMPANY  
 ATTN: JOE SCHIMITSCH (570) 685-1098  
 P.O. BOX 8  
 104 HOTEL RD.  
 ROWLAND, PA. 18457

PILE NOTES:  
 USE HP STEEL PILES (DRIVEN TO REFUSAL) WITH HEAVY DUTY PILE TIP REINFORCEMENT. DESIGN FOUNDATIONS WITH AXIAL PILE RESISTANCE FACTORS ACCORDING TO DESIGN MANUAL, PART 4.  
 DRIVE TEST PILES AS DIRECTED PRIOR TO DRIVING PRODUCTION PILES.  
 DRIVE TEST PILES TO ABSOLUTE REFUSAL UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT REPRESENTATIVE.  
 PROVIDE 1 (ONE) TEST PILE PER ABUTMENT  
 DRIVE BEARING PILES TO ABSOLUTE REFUSAL AT OR BELOW A TIP ELEVATION PREDETERMINED BY THE DEPARTMENT REPRESENTATIVE FROM TEST PILES. THE DEPARTMENT REPRESENTATIVE MUST DETERMINE ACCEPTABILITY OF THE BEARING PILES WHICH ATTAIN ABSOLUTE REFUSAL ABOVE THE PREDETERMINED TIP ELEVATION.  
 CONTROL PILE DRIVING BY THE WAVE EQUATION ANALYSIS. DRIVE TEST PILES TO CASE 1 ABSOLUTE REFUSAL AS DEFINED IN PUBLICATION 408, SECTION 1005.3(B)4. THE DEPARTMENT SHALL VERIFY, FROM THE TEST PILE DRIVING RESULTS, THE CAPABILITY OF THE PILE HAMMER SELECTED BY THE CONTRACTOR.  
 INSTALL PILES WITH THEIR WEB PERPENDICULAR TO THE LONGITUDINAL AXIS OF THE BEAMS. PERFORM DYNAMIC PILE MONITORING ON EACH PILE.

INTEGRAL ABUTMENTS:  
 NOMINALLY COMPACT THE BACKFILL WITHIN A DISTANCE OF 2 FEET WIDE DIRECTLY BEHIND BOTH ABUTMENTS AND ATTACHED WINGWALLS USING TWO PASSES OF A WALK-BEHIND VIBRATORY-PLATE SOIL COMPACTOR. COMPACT THE FILL IN 4 INCH LIFTS FOR 0.6 S<sub>c</sub> OR (AASHTO NO. 57 COARSE AGGREGATE. FILL BEHIND BOTH ABUTMENTS SIMULTANEOUSLY WITH THE DIFFERENCE IN THE FILL DEPTH BETWEEN BOTH ENDS OF THE BRIDGE NOT EXCEEDING 1 FOOT AT ANY POINT OF TIME.  
 DO NOT USE FLOWABLE FILL AND LARGE STONE FILL IN CONJUNCTION WITH INTEGRAL ABUTMENTS.  
 PLACE 1" THICK STYROFOAM SHEETS AGAINST THE ENTIRE AREA OF THE BACK FACE OF EACH ABUTMENT BELOW THE BOTTOM OF THE APPROACH SLAB PAVING NOTCH. MANDATORY PRE-DRILLING AND HEAVY DUTY PILE TIPS ARE REQUIRED FOR INTEGRAL ABUTMENTS ON PILES.  
 FOUNDATION NOTES  
 THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF ALL EXCAVATED SLOPES AND THE DESIGN OF TEMPORARY SHORING AND BRACING THAT MAY BE USED. DESIGN IS TO BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER. PERFORM ALL EXCAVATIONS IN ACCORDANCE WITH OSHA REQUIREMENTS. DIVERT ALL SURFACE RUNOFF AWAY FROM EXCAVATIONS. PROVIDE SUFFICIENT Dewatering SUCH THAT EXCAVATIONS ARE DRY ENOUGH FOR INSPECTION AND CONSTRUCTION.  
 USE ONLY ONE ROW OF PILES PER ABUTMENT. USE HP PILES WITH THE WEB ORIENTED PERPENDICULAR TO THE LONGITUDINAL AXIS OF THE BEAM.  
 DO NOT CUT PILE WEB, FLANGES, OR FOOTING REINFORCEMENT BARS TO ACCOMMODATE REINFORCEMENT BAR REPLACEMENT, UNLESS DIRECTED BY THE ENGINEER.  
 BEFORE DRIVING PILES, PLACE AND COMPACT TO CAP ELEVATION, SPECIALLY SELECTED MATERIALS WHICH CONTAIN NO ROCK TO INTERFERE WITH PILE DRIVING. AUGERING OR PRE-BORING WILL BE PERMITTED TO THE ORIGINAL GROUND

SUBSTRUCTURE UNITS	PILE TYPE	PILE TIP (Y OR N)	PILE TIP ELEVATION	FACTORED DESIGN LOAD (KIPS)	ULTIMATE PILE CAPACITY AT END OF DRIVING (KIPS)	WEAR OR PDA

Mark	Description	By	Chk'd	Recom'd	Date

S.R. 07391 PREVIOUSLY KNOWN AS L.R. 0950  
**COMMONWEALTH OF PENNSYLVANIA**  
 DEPARTMENT OF TRANSPORTATION  
**PIKE COUNTY**  
**S.R. 0739 SEC. 452**  
 SEGMENT 0290 OFFSET 0000  
 S.R. 0739-452 STA. A93+82.76  
 BRIDGE REPLACEMENT OVER SHOHOLA CREEK  
 1-SP COMP P/S CONCRETE I-BEAM BRIDGE  
**GENERAL NOTES**

DES: P.Y DWG: P.Y. CKD: G.B.

RECOMMENDED \_\_\_\_\_ SHEET 3 OF 3  
 S- 31651