



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

RFQ NUMBER  
**DCH07091**

PAGE  
**1**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**SHELLY MURRAY  
 304-558-8801**

**RFQ COPY  
 TYPE NAME/ADDRESS HERE**

Michael Baker Jr., Inc.  
 5088 West Washington Street  
 Second Floor  
 Charleston, WV 25313

**DIVISION OF CULTURE & HISTORY**

**CULTURAL CENTER  
 1900 KANAWHA BOULEVARD, EAST  
 CHARLESTON, WV  
 25305-0300 558-0220**

| DATE PRINTED | TERMS OF SALE | SHIP VIA | FOB | FREIGHT TERMS |
|--------------|---------------|----------|-----|---------------|
| 07/26/2007   |               |          |     |               |

BID OPENING DATE: **08/22/2007** BID OPENING TIME **01:30PM**

| LINE | QUANTITY | UOP | CAT NO | ITEM NUMBER  | UNIT PRICE | AMOUNT |
|------|----------|-----|--------|--|------------|--------|
|      |          |     |        | <b>REQUEST FOR QUOTATION</b><br><br>THE PURCHASING DIVISION IS SOLICITING BIDS FOR THE WV DIVISION OF CULTURE AND HISTORY TO PROVIDE THE SERVICE OF CONDUCTING AN INTENSIVE HISTORIC RESOURCE SURVEY OF THE STATE PARK SYSTEM'S CIVILIAN CONSERVATION CORPS/WORKS PROGRESS ADMINISTRATION (CCC/WPA) AND FARM SECURITY ADMINISTRATION (FSA) RESOURCES AND ALTERNATES.<br><br><b>ATTACHMENTS: SPECIFICATIONS<br/>           PURCHASING AFFIDAVIT</b><br><br><b>INQUIRIES:</b><br>WRITTEN QUESTIONS SHALL BE ACCEPTED THOROUGH CLOSE OF BUSINESS ON WEDNESDAY, AUGUST 15, 2007. QUESTIONS MAY BE SENT VIA USPS, FAX, COURIER OR EMAIL. IN ORDER TO ASSURE NO VENDOR RECEIVES AN UNFAIR ADVANTAGE, NO SUBSTANTIVE QUESTIONS WILL BE ANSWERED ORALLY. IF POSSIBLE, EMAIL QUESTIONS ARE PREFERRED. ADDRESS INQUIRIES TO:<br><br>SHELLY MURRAY<br>DEPARTMENT OF ADMINISTRATION<br>PURCHASING DIVISION<br>2019 WASHINGTON STREET, EAST<br>CHARLESTON, WV 25311<br>FAX: 304-558-4115<br>SMURRAY@WVADMIN.GOV |            |        |
| 0001 | 1        | LS  |        | 968-77   |            |        |
|      |          |     |        | <b>HISTORIC RESOURCE SURVEY</b>  |            |        |

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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**GENERAL TERMS & CONDITIONS  
PURCHASE ORDER/CONTRACT**

1. **ACCEPTANCE:** Seller shall be bound by this order and its terms and conditions upon receipt of this order.
2. **APPLICABLE LAW:** The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
3. **NON-FUNDING:** All services performed or goods delivered under State Purchase Orders/ Contracts are to be continued for the terms of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/ Contract becomes void and of no effect after June 30.
4. **COMPLIANCE:** Seller shall comply with all Federal, State and local laws, regulations and ordinances including, but not limited to, the prevailing wage rates of the WV Division of Labor.
5. **MODIFICATIONS:** This writing is the parties final expression of intent. No modification of this order shall be binding unless agreed to in writing by the Buyer.
6. **ASSIGNMENT:** Neither this Order nor any monies due, or to become due hereunder may be assigned by the Seller without the Buyer's consent.
7. **WARRANTY:** The Seller expressly warrants that the goods and/or services covered by this order will: {a} conform to the specifications, drawings, samples or other description furnished or specified by the Buyer {b} be merchantable and fit for the purpose intended and/or {c} be free from defect in material and workmanship.
8. **CANCELLATION:** The Director or Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
9. **SHIPPING, BILLING & PRICES:** Prices are those stated in this order. No price increase will be accepted without written authority from the Buyer. All goods or services shall be shipped on or before the date specified in this Order.
10. **LATE PAYMENTS:** Payments may only be made after the delivery of goods or services. Interest may be paid on late payments in accordance with the *West Virginia Code*.
11. **TAXES:** The State of West Virginia is exempt from Federal and State taxes and will not pay or reimburse such taxes.
12. **RENEWAL:** Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor / contractor files for bankruptcy protection, this contract is automatically null and void, and is terminated without further order.
14. **HIPAA Business Associate Addendum** - The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR ̄160.103) and will be disclosing Protected Health Information (45 CFR ̄160.103) to the vendor.



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**2**

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| <p><b>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</b></p> <p><b>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</b></p> <p><b>PURCHASING CARD ACCEPTANCE: THE STATE OF WEST VIRGINIA CURRENTLY UTILIZES A VISA PURCHASING CARD PROGRAM WHICH IS ISSUED THROUGH A BANK. THE SUCCESSFUL VENDOR MUST ACCEPT THE STATE OF WEST VIRGINIA VISA PURCHASING CARD FOR PAYMENT OF ALL ORDERS PLACED BY ANY STATE AGENCY AS A CONDITION OF AWARD.</b></p> <p style="text-align: center;"><b>VENDOR PREFERENCE CERTIFICATE</b></p> <p><b>CERTIFICATION AND APPLICATION* IS HEREBY MADE FOR PREFERENCE IN ACCORDANCE WITH WEST VIRGINIA CODE, 5A-3-37 (DOES NOT APPLY TO CONSTRUCTION CONTRACTS).</b></p> <p><b>A. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</b></p> <p><b>( ) BIDDER IS AN INDIVIDUAL RESIDENT VENDOR AND HAS RESIDED CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</b></p> <p><b>( ) BIDDER IS A PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR AND HAS MAINTAINED ITS HEAD-QUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY I</b></p> |          |     |        |             |            |        |

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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VENDOR

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SHIP TO

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|   |          |     |        |             |            |        |
| <p>WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR 80% OF THE OWNERSHIP INTEREST OF BIDDER IS HELD BY ANOTHER INDIVIDUAL, PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR WHO HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>( ) BIDDER IS A CORPORATION NONRESIDENT VENDOR WHICH HAS AN AFFILIATE OR SUBSIDIARY WHICH EMPLOYS A MINIMUM OF ONE HUNDRED STATE RESIDENTS AND WHICH HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA CONTINUOUSLY FOR THE FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION.</p> <p>B. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>(X) BIDDER IS A RESIDENT VENDOR WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES WORKING ON THE PROJECT BEING BID ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID;<br/> OR</p> <p>( ) BIDDER IS A NONRESIDENT VENDOR EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS OR IS A NONRESIDENT VENDOR WITH AN AFFILIATE OR SUBSIDIARY WHICH MAINTAINS ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES OR BIDDERS' AFFILIATE'S OR SUBSIDIARY'S EMPLOYEES ARE RESIDENTS OF WEST VIRGINIA</p> |          |     |        |             |            |        |

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| <p>WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID.</p> <p>BIDDER UNDERSTANDS IF THE SECRETARY OF TAX &amp; REVENUE DETERMINES THAT A BIDDER RECEIVING PREFERENCE HAS FAILED TO CONTINUE TO MEET THE REQUIREMENTS FOR SUCH PREFERENCE, THE SECRETARY MAY ORDER THE DIRECTOR OF PURCHASING TO: (A) RESCIND THE CONTRACT OR PURCHASE ORDER ISSUED; OR (B) ASSESS A PENALTY AGAINST SUCH BIDDER IN AN AMOUNT NOT TO EXCEED 5% OF THE BID AMOUNT AND THAT SUCH PENALTY WILL BE PAID TO THE CONTRACTING AGENCY OR DEDUCTED FROM ANY UNPAID BALANCE ON THE CONTRACT OR PURCHASE ORDER.</p> <p>BY SUBMISSION OF THIS CERTIFICATE, BIDDER AGREES TO DISCLOSE ANY REASONABLY REQUESTED INFORMATION TO THE PURCHASING DIVISION AND AUTHORIZES THE DEPARTMENT OF TAX AND REVENUE TO DISCLOSE TO THE DIRECTOR OF PURCHASING APPROPRIATE INFORMATION VERIFYING THAT BIDDER HAS PAID THE REQUIRED BUSINESS TAXES, PROVIDED THAT SUCH INFORMATION DOES NOT CONTAIN THE AMOUNTS OF TAXES PAID NOR ANY OTHER INFORMATION DEEMED BY THE TAX COMMISSIONER TO BE CONFIDENTIAL.</p> <p>UNDER PENALTY OF LAW FOR FALSE SWEARING (WEST VIRGINIA CODE 61-5-3), BIDDER HEREBY CERTIFIES THAT THIS CERTIFICATE IS TRUE AND ACCURATE IN ALL RESPECTS; AND THAT IF A CONTRACT IS ISSUED TO BIDDER AND IF ANYTHING CONTAINED WITHIN THIS CERTIFICATE CHANGES DURING THE TERM OF THE CONTRACT, BIDDER WILL NOTIFY THE PURCHASING DIVISION IN WRITING IMMEDIATELY.</p> <p>BIDDER: ----- Michael Baker Jr., Inc. -----</p> |          |     |        |             |            |        |

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|--|----------|-----|--------|---------------------------------|------------|--------|
|  |          |     |        | DATE: 08/29/2007                |            |        |
|  |          |     |        | SIGNED: <i>Samuel S. Hall</i>   |            |        |
|  |          |     |        | TITLE: Assistant Vice President |            |        |
| <p>* CHECK ANY COMBINATION OF PREFERENCE CONSIDERATION(S) IN EITHER "A" OR "B", OR BOTH "A" AND "B" WHICH YOU ARE ENTITLED TO RECEIVE. YOU MAY REQUEST UP TO THE MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B". (REV. 12/00)</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION<br/>         PURCHASING DIVISION<br/>         BUILDING 15<br/>         2019 WASHINGTON STREET, EAST<br/>         CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: SM / FILE 31</p> <p>RFQ. NO.: DCH07091</p> |          |     |        |                                 |            |        |

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**REQUEST FOR QUOTATION**  
**West Virginia Division of Culture and History,**  
**State Historic Preservation Office**  
**State Parks New Deal Intensive Historic Resource Survey and**  
**Alternates**  
**RFQ # - DCH07091**

**Purpose:**

The Acquisition and Contract Administration Section of the Purchasing Division (State), on behalf of the Division of Culture and History, State Historic Preservation Office (SHPO), is soliciting a Request for Quotation (RFQ) from qualified firms to provide the service of conducting an intensive historic resource survey of the State Park System's Civilian Conservation Corps/ Works Progress Administration (CCC/WPA) and Farm Security Administration (FSA) Resources and Alternates as per the Scope of Work.

**Location:**

The project will document resources at the following West Virginia state parks and forests:

Babcock State Park, Cabwaylingo State Forest, Cacapon State Park, Coopers Rock State Forest, Droop Mt. Battlefield State Park, Greenbrier State Forest, Hawks Nest State Park, Kanawha State Forest, Kumbrabow State Forest, Lost River State Park, Panther State Forest, Seneca State Forest, Watoga State Park, Pinnacle Rock State Park, Tomlinson Run State Park, and Holly River State Park.

**SPECIFICATIONS:**

**Background:**

The 75<sup>th</sup> anniversary of the New Deal will take place in 2008 throughout the country. This period of American history will be highlighted through various activities sponsored by the SHPO.

**Scope of Work:**

Conduct an intensive historic resource survey of all New Deal (CCC/WPA & FSA) resources located in West Virginia State Parks and Forests and prepare a National Register of Historic Places (NRHP) Multiple Property Document (MPD) as per the following specifications:

Item # 1. Complete research and write historic overview of the New Deal in West Virginia focusing on the construction of CCC/WP & FSA resources in West Virginia's state parks and forests. The history will include footnotes and a bibliography which shall be formatted according to Kate Turabian's *A Manual for Writers of Term Papers, Theses, and Dissertations*. Repositories where research shall be conducted include (but are not limited to) the West Virginia State Archives, West Virginia Division of Natural Resources, and West Virginia University History Collection. Consultant must also conduct research at the associated park/forest when sources (primary and/or secondary) exist. Local repositories, such as county libraries, may also retain information.

**Item # 2.** Obtain a minimum of 30 historic photographs (at least one from each State Park and/or State Forest). Historic images must be provided in both electronic and hard copy format. Prints must meet the National Park Service 75-year permanence standard. Electronic files must be saved in .tiff format. The size of each image must be 1600x1200 pixels at 300 ppi or larger and saved in 8-bit (or larger) color format. Printed photographs must be labeled with the park/forest name, county, and if the pictured resources are extant, the resource name and site number. If no historic photographs exist for a park, the vendor must indicate in writing which sources were investigated.

**Item # 3.** Travel to and site-visits at each of the above-specified State parks/forests to accurately document resources.

**Item # 4.** Completion of a West Virginia Historic Property Inventory (HPI) Form for all CCC/WPA & FSA resources documented. Each resource, including outbuildings, will be documented separately. There are approximately 250 to 300 CCC/WPA & FSA resources in the State Park system. All HPI Forms will be supplied in both hard copy format and in Access or Approach database format. Each HPI Form will be submitted with a minimum of two current photographs. At least one of the photos for each resource will be a three-quarter view showing the main elevation. Photographs will be printed in black and white and must be a minimum of 4x6 inches. They will be submitted in archival photo sleeves. Photographs must be taken digitally and must meet the National Park Service's 75-year permanence standard. Photographs will also be submitted on CD-R media and saved in color. Electronic files will meet the National Park Service standard. NPS's Standards may be found at the following link:  
<http://www.nps.gov/history/nr/policyexpansion.htm>

Photographs must be labeled with pencil or a felt-tipped pen with the resource name, site number, park/forest name, and county.

**Item # 5.** Complete United State Geological Survey (USGS) maps detailing resource locations. Maps printed from computer programs will be accepted. Maps must be labeled with name of county, quadrangle name, and resource site numbers.

**Item # 6.** Complete park maps detailing locations of all documented resources as well as other resources. Maps must be labeled with name of county, quadrangle name, and resource site numbers.

**Item # 7.** Complete formal written recommendations, with appropriate documentation, as to which resources are eligible for listing in the National Register of Historic Places (NRHP).

**Item # 8.** Complete a final survey report that will combine a historic overview of the New Deal in West Virginia and the state's parks and forests, survey methodology, description of property types, USGS maps, park maps, and a table of resources and recommendations.

**Add Alternate #1**

Complete a NRHP Multiple Property Cover Document (MPD) for CCC/WPA Resources in West Virginia State Parks.

**Add Alternate #2**

Complete a National Register Nomination Form for Hawks Nest State Park.

**Add Alternate #3**

Complete a National Register Nomination Form for Watoga State Park.

**NOTE:** For any or all accepted Add Alternates, the Consultant will be required to present the cover document and nominations to the State Archives and History Commission on a date selected by the SHPO. The consultant will be required to make any changes requested by the State Historic Preservation Office, the State Archives and History Commission, and/or the National Park Service.

**Methodology:**

The survey will be conducted in accordance with the Secretary of the Interior's *Standards for Identification and Evaluation* and the SHPO *Survey and National Register Manual*. The Multiple Property Submission and nominations must be prepared according to National Register Bulletins, *How to Complete the National Register Registration Form* and *How to Complete the National Register Multiple Property Documentation Form* and the SHPO *Survey and National Register Manual*. Any deviations must be pre-approved by and documented with the SHPO. All products shall be first submitted to the SHPO in draft format. The SHPO will have 60 days to review all draft materials and provide comments.

**Time Frame:**

The RFQ shall be completed by August 30, 2008

**Payment Schedule:**

The payment schedule will be rendered in four payments based on work completed and approved by the SHPO. All travel and other expenses related to the project shall be included in the base cost.

1. Following successful completion of research and site visits and SHPO review of draft history, HPI Forms, maps, and photographs.
2. Following final submission and approval by SHPO of survey report and HPI Forms.
3. Following submission and approval by SHPO and listing by National Park Service of a draft NRHP Multiple Property Document. If Add Alternate #1 is accepted by SHPO.
4. Following submission and approval by SHPO and listing by National Park Service of Hawks Nest State Park Nomination. If Add Alternate #2 is accepted by SHPO.

5. Following submission and approval by SHPO and listing by National Park Service of Watoga State Park Nomination. If Add Alternate #3 is accepted by SHPO.

**Cost:**

Vendor shall submit a detailed cost breakdown, item by item based on the Scope of Work. Refer to bidding return sheet.

**Mandatory Qualifications:**

1. Vendor must submit resumes of key personnel. Vendor shall confirm that key personnel assigned to project meet the requirements for National Register Historian detailed in 36 CFR 61.
2. Vendor must have successfully completed similar projects. Vendor bid must include information (such as the name and location of project) on at least three similar projects and a list of three references to verify previous projects.
3. Vendor must be registered as a Vendor with the State of West Virginia prior to award.

**END OF RFQ**

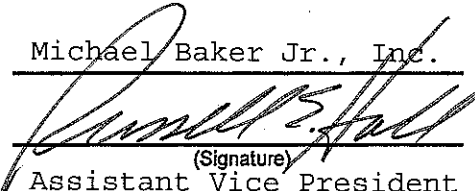
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**West Virginia Division of Culture and History,**  
**State Historic Preservation Office**  
**State Parks New Deal Intensive Historic Resource Survey and**  
**Alternates**  
**RFQ # - DCH07091**

**BIDDING RETURN SHEET:**

|   |       |    |            |
|---|-------|----|------------|
| ITEM # 1:   | ..... | \$ | 26,750.00  |
| ITEM # 2:   | ..... | \$ | 7,125.00   |
| ITEM # 3:   | ..... | \$ | 39,000.00  |
| ITEM # 4:   | ..... | \$ | 35,165.00  |
| ITEM # 5:   | ..... | \$ | 7,000.00   |
| ITEM # 6:   | ..... | \$ | 10,000.00  |
| ITEM # 7:   | ..... | \$ | 13,120.00  |
| ITEM # 8:   | ..... | \$ | 20,275.00  |
| <br>  |       |    |            |
| <b><u>SUB TOTAL COST</u></b>                                |       |    |            |
| <b><u>(including expenses):</u></b>                         |       | \$ | 158,435.00 |
| <br>  |       |    |            |
| ADD ALTERNATE # 1:  | ..... | \$ | 4,225.00   |
| ADD ALTERNATE # 2:  | ..... | \$ | 11,380.00  |
| ADD ALTERNATE # 3:  | ..... | \$ | 11,380.00  |
| <br>  |       |    |            |
| <b><u>TOTAL PROJECT COST (Including Add Alternates)</u></b> |       | \$ | 185,420.00 |

**This Proposal is submitted in the name of:**

**Firm or Individual:** Michael Baker Jr., Inc.

**By:**   
 (Signature)  
Assistant Vice President  
 (Title)

**Date:** 08/29/2007



RFQ No. DCH07091

STATE OF WEST VIRGINIA  
Purchasing Division

## PURCHASING AFFIDAVIT

**West Virginia Code §5A-3-10a states:** No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate

**DEFINITIONS:**

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

**EXCEPTION:** The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

**LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

**CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit [www.state.wv.us/admin/purchase/privacy](http://www.state.wv.us/admin/purchase/privacy) for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor's Name: Michael Baker Jr., Inc.

Authorized Signature:  Date: 08/29/2007

|   |        |      |                                |
|---|--------|------|--------------------------------|
| WV-36a STATE OF WEST VIRGINIA<br><b>PURCHASING CONTINUATION SHEET</b> | Buyer: | Page | Req. or P. O. No.:<br>DCH07091 |
|---|--------|------|--------------------------------|

|                                 |   |
|---------------------------------|---|
| Vendor: Michael Baker Jr., Inc. | Spending Unit:<br>Division of Culture & Hist. |
|---------------------------------|---|

Requisition No.: DCH07091

**ADDENDUM ACKNOWLEDGEMENT**

I hereby acknowledge receipt of the following checked addendum(s) and have made the necessary revisions to my proposal, plans and/or specifications, etc.

**Addendum No.'s:**

No. 1   X  

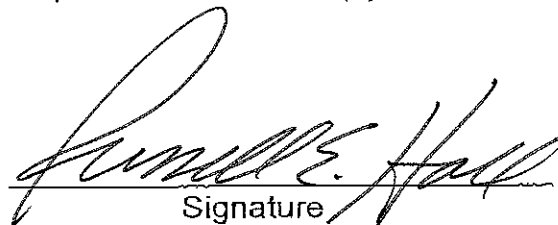
No. 2           

No. 3           

No. 4           

No. 5           

I understand that failure to confirm the receipt of the addendum(s) is cause for rejection of bids.

  
 Signature

Michael Baker Jr., Inc.  
 Company

08/29/2007  
 Date

**Baker**

**Michael Baker Jr., Inc.**  
5088 West Washington Street  
Second Floor  
Charleston, West Virginia 25313

304-769-0821  
FAX 304-769-0822

August 29, 2007

Ms. Shelly Murray  
Department of Administration  
Purchasing Division  
2019 Washington Street, East  
Charleston, West Virginia 25311

**Re: RFQ No. DCH07091  
West Virginia Division of Culture & History  
State Park System Historic Resource Survey**

Dear Ms. Murray:

Michael Baker Jr., Inc. (Baker) is pleased to present our qualifications and quotation as it relates to the intensive Historic Resource Survey of West Virginia's State Park System in observance of the 75<sup>th</sup> anniversary of the New Deal (CCC/WPA & FSA). As you can see from the enclosed project profiles and personal resumes, Baker has extensive experience in historic research and documentation. We have performed this work for county and city municipalities, state park systems as well as national park systems.

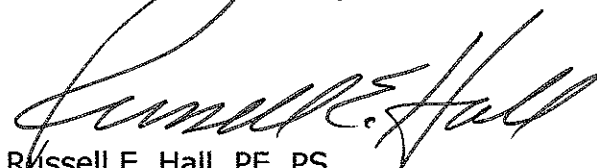
Baker is a global engineering and energy firm with some 5,000 members in 50 office locations. We propose to undertake this and any subsequent assignments from our Charleston office which employs over 40 individuals including engineers, architects, landscape architects, planners, surveyors, environmental specialists, and technicians.

We feel this combination of global expertise and West Virginia based experience is unique to Baker and will provide efficient, timely, personal, cost effective, and quality solutions for the Division of Culture and History, State Historic Preservation Office.

We are extremely interested in providing the required services on this important project for the Division of Culture and History, State Historic Preservation Office. **Let us put our experience and enthusiasm to work for you!** We look forward to meeting with your committee to begin work on the data collection and research necessary for completion of a successful project.

Very truly yours,

**MICHAEL BAKER JR., INC.**



Russell E. Hall, PE, PS  
Assistant Vice President

**ChallengeUs.**

**Baker**

**Engineering & Energy**

***ChallengeUs.***

## Table of Contents

Part 1

Request for Quotation  
No. DCH07091

Part 2

Resumes of Key Personnel

Part 3

Related Prior Experience

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# Russell E. Hall, P.E., P.S.

## *Charleston Office Manager*

### **General Qualifications**

Mr. Hall is an experienced transportation engineer who has been involved in numerous bridge and highway design projects in West Virginia for over 21 years. His project management responsibilities involve overseeing staff from project inception through completion, and ensuring that the clients' needs and requirements are met.

He has over seven years of experience in office management as well. His office management responsibilities include financial oversight and accountability for a staff of over 45 engineers, scientists, and administrative personnel for Baker's Charleston office. His major strengths include organizing and managing a project team, quality control and quality assurance, and problem resolution. He provides overall direction and maintains direct communications with all clients.

Mr. Hall is very proud of the fact that he has been able to spend his entire career in West Virginia working to address West Virginia's transportation needs.

### **Experience**

**2004 to Present, Michael Baker Jr., Inc.** – *Office Manager* for the Charleston, West Virginia office.

**1998 to 2004, Neff, Longest, and Beam, L.L.C.** – *Office Manager* for the Charleston, West Virginia office. Responsibilities included the duties of both project manager and office manager. The following is a list of representative projects:

- **WV 9, Charles Town Bypass to Virginia State Line, Jefferson County** – The project provided for the preparation of construction and right of way plans for an approximately five mile section of 4-lane highway. This project included the design of two interchanges, four bridges, and multiple intersections and access roads. This project was divided into seven construction contracts.
- **Fetterman Truss Bridge, Taylor County** – The project provided for the preparation of construction and right of way plans for the replacement of the existing Fetterman Bridge in Grafton, West Virginia. This project included the design of a multiple span curved bridge over the Tygart River and a 200,000 gallon CSO tank.
- **Corridor H, Hardy County** – The project provided for the preparation of construction and right of way plans for a two mile section of 4-lane divided highway. This project included the design of one interchange, two bridges, and multiple intersections and access roads. This project was divided into three construction contracts.
- **Wellington Bridge, Roane County** – The project provided for the preparation of construction and right-of-way plans for the replacement of the existing Wellington Bridge over Spring Creek.

**Years with Baker:** 3

**Years with Other Firms:** 18

#### **Education**

B.S., 1985, Civil Engineering, West Virginia Institute of Technology

#### **Professional Registrations**

Professional Engineer, West Virginia, 1990, 10947

Professional Surveyor, West Virginia, 1996, 1878

- **I-64 Widening, Putnam County** – This project provided for the preparation of a design report and contract plans for the upgrade of I-64 to six-lane for the proposed US 35 interchange to the existing six-lane section at the 25<sup>th</sup> Street Overpass Bridge. Neff is a subconsultant to Site-Blauvelt and is responsible for surveys, right-of-way plans, all bridges except the Kanawha River bridge crossing, and the St. Albans interchange. The project is in the final stage of the design report phase. The design report phase assesses the engineering and environmental impacts of multiple alignments and interchange configurations.
- **US 35/I-64 Interchange, Putnam** – Neff was a subconsultant to Baker responsible for all right-of-way plan development.
- **New River Parkway, Summers and Raleigh counties** – Neff is a subconsultant to Kimley-Horn responsible for all right-of-way plan development.
- **US 52, King Coal Highway, US 119 Mingo County to US 460 Mercer County** – Neff was program manager for the entire corridor. The responsibilities include all engineering design review and approval; develop and maintain schedules; and coordinate with all resource agencies, the WVDOH, and the public.
- **Statewide Services Contract** – Neff provided construction and right-of-way development and review on an as needed basis.

**1996 to 1998, West Virginia Department of Transportation** – *In-House Design Section Head* for the WVDOH. Responsibilities included the management of four design squads containing approximately 15 engineers and 10 engineering technicians. The In-House Design staff was responsible for the design and preparation of construction and right of way plans for multiple projects throughout the state.

**1994 to 1996, West Virginia Department of Transportation** – *Consultant Review Section Head* for the WVDOH. Responsibilities included the management of five project managers. Each project manager was responsible for the oversight, review, and approval of consulting engineers' design work. Each manager was responsible for several consultants, most with multiple projects.

**1991 to 1994, West Virginia Department of Transportation** – *Consultant Review Section Project Manager* for the WVDOH. Responsibilities included oversight, review, and approval of consulting engineers' design work. Each manager was responsible for several consultants, most with multiple projects.

**1988 to 1991, West Virginia Department of Transportation** – *In-House Design Section Squad Leader* for the WVDOH. Responsibilities included the management of one design squads containing approximately 3 engineers and 2 engineering technicians. The design squad was responsible for the design and preparation of construction and right of way plans for multiple projects throughout the state.

**1988 to 1991, West Virginia Department of Transportation** – *In-House Design Section Project Engineer* for the WVDOH. Responsibilities included the design and preparation of construction and right of way plans for multiple projects throughout the state.

# Patrick W. Fogarty, P.E., P.S.

## Project Manager

### General Qualifications

Mr. Fogarty is an asset to the Michael Baker Jr., Inc. team with over 21 years of project management experience. He is responsible for technical and management aspects of civil design and surveying projects within the office. Mr. Fogarty has designed and managed projects in numerous disciplines including civil, structural and transportation engineering, site development, planning and surveying. These projects have included retail/commercial site preparation, airports, streets/highways, bridges, parking lots, buildings, retaining walls/foundations, sanitary systems and structures, as well as boundary and topographic and photogrammetric surveys. Duties included field surveying, drawings and specification preparation, design, design drafting, construction inspection, quality control testing, shop drawing review, project management, contract administration and report preparation. Management duties include financial planning, management and staff utilization for two departments, human resource planning, marketing, and strategic planning for the 250 member firm as a member of the board of directors.

### Experience

**On-Call Engineering/Architectural Services, Yeager Airport (CRW), Charleston, West Virginia.** *Central West Virginia Regional Airport Authority.* Project Manager. Responsible for management planning and lead design for miscellaneous assignments. Additionally, provided engineering consultation on a current construction project as needed. Baker provided multi-discipline, on-call services to the Central West Virginia Regional Airport Authority (CWVRAA), which owns and operates Yeager Airport (CRW). Baker provided a full range of services to CWVRAA on an "On-Call/As-Needed" basis, including architecture, civil, structural, mechanical, electrical and environmental engineering, general engineering administration, surveying, and construction management.

**Flood Protection Options Report-Bonham Elementary School, Kanawha County, West Virginia.** *West Virginia Division of Homeland Security and Emergency Management.* Project Manager. Responsible for the development of a report listing potential flood protection options for the facility. Baker was retained by the West Virginia Division of Homeland Security and Emergency Management to prepare a report to address flood protection options for Bonham Elementary School in Kanawha County, West Virginia.

Years with Baker: 2

Years with Other Firms: 19

#### Education

B.S., 1985, Civil Engineering, West Virginia University Institute of Technology

Diploma, 1993, Surveying and Mapping, International Correspondence Schools

Coursework, Business Administration, Heriot-Watt University, Edinburgh College of Art

#### Licenses/Certifications

Professional Engineer, West Virginia, 1990, 10945

Professional Engineer, Kentucky, 2000, 21390

Professional Engineer, Virginia, 2002, 0402 037876

Professional Engineer, Pennsylvania, 2003, 62259

Professional Engineer, Maryland, 2003, 31659

Professional Engineer, Ohio, 1996, E-60205

Professional Surveyor, West Virginia, 1993, 970

Professional Surveyor, Kentucky, 2001, 3584

Professional Surveyor, Ohio, 1996, S-7945

Construction Documents Technologist, 1996, CSI 1996

FAA, Eastern Region Laboratory Procedures Manual Certificate (P-401), 1992

Asphalt Paving Technician, 1991, 4460

Concrete Technician, 1991, 4460

Soils Compaction, 1991, 4460

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**Blennerhassett Island Bridge, Appalachian Corridor D, Washington County, Ohio and Wood County, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* QA/QC. Responsible for quality assurance review of final computations. Upon completion of construction of the Blennerhassett Island Bridge over the Ohio River by 2007, the 878' – 6" long network tied arch that ranks as the longest of its type in the United States and one of the longest in the entire world. Baker provided project management, environmental and location studies, permitting, preliminary and final design as well as construction phase services.

#### **Prior-Baker Project Experience**

### **SITE DEVELOPMENT / CIVIL DESIGN**

#### **Structures Resources, Inc., Huntington, WV**

As a Project Manager and Engineer of Record, provided design, administration and quality assurance services for numerous Site Development projects for various locations in Cabell, Putnam, Kanawha and Wayne Counties in West Virginia. Services included site layout, grading and drainage, utility design, road and parking layout, pavement design, site lighting, permitting and construction administration.

#### *Notable sites have included the following:*

- Commerce Park (40 Acres, Industrial, Commercial, Residential), Cabell and Wayne Counties;
- The Hamlets (10 Acres, Residential), Cabell County;
- Lakeview Manor (12 Acres Residential), Wayne County;
- Carriage Hill (10 Acres, Residential), Kanawha County;
- Teays Commons (8 Acres, Residential), Putnam County.

#### **130<sup>th</sup> Airlift Wing West Virginia Air National Guard, Yeager Airport, Charleston, West Virginia**

Provided planning, design, and construction administration services at this facility on numerous projects including:

As a Field Engineer, provided full construction administration services to include inspection, quantity determination, specification interpretation, and the coordination of all testing for the 15,000 cy PCC extension of the aircraft parking apron.

As a Staff Engineer, provided surveying and design services to include site, structural steel and concrete design, coordination with Architectural and MEP consultants and scheduling and budgeting for the 3 story addition to the Squadron Operations Facility.

As a Project Manager and Lead Designer, provided complete services toward the development of construction plans and specifications for the 50 acre site preparation element of Project 2000 (the relocation of all major base facilities from runway elevation to the former Coonskin Driving Range).

#### **Dominion Resources, Inc.**

As a Lead Designer and Project Manager, Mr. Fogarty has generated various secondary containment designs for truck loading / unloading facilities and overall sites. The purpose of the secondary containment designs is to meet the requirements of the facility Spill Prevention Controls and Countermeasures (SPCC) Plan. The SPCC plan is required to provide a corrective action plan in the event of a petroleum products spill on Dominion Resource compressor sites. Work on these sites consists of site surveying to generate existing conditions mapping, design of secondary containment facilities,



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preparation of construction drawings and specifications, and construction cost estimating. These projects required working with a tight budget and accelerated time frame.

**Abandoned Mine Lands, Statewide Contract, Various Locations, West Virginia**

As a Project Manager, provided services for civil design for various Abandoned Mine Land (AML) projects throughout West Virginia. Various types of AML projects include landslide correction include retaining wall design and site grading and drainage improvements, acid mine drainage collection and neutralization, water line upgrade and extensions, and various projects requiring site regrading and drainage upgrade. Work on these projects also included establishing horizontal and vertical control surveys for aerial photogrammetry mapping, baseline layout, referencing control points, generating check cross sections and site surveys including all physical and topographic features of each unique site.

**HIGHWAY AND BRIDGE**

***West Virginia Department of Transportation, Division of Highways, Charleston, West Virginia***

Provided Surveying and Design Services on numerous projects from 1992 to present including:

As a Project Manager and Lead Designer, provided complete services toward the development of Right of Way and Construction Plans for a 2.5 mile section of Appalachian Corridor L (U.S. Route 19) in Nicholas County. Services included field surveying, right of way, utilities verification and relocation, storm drainage, traffic control and geometric design.

As a Project Manager and Lead Designer, provided complete services toward the development of Right of Way and Construction Plans for a 4 lane, 2 span bridge on U.S. Route 60 over Kelly Creek in Cedar Grove, Kanawha County. Services included field surveying, right of way, utilities verification and relocation, storm drainage, traffic control and approach road design.

As a Project Manager and Lead Designer, provided complete services toward the development of Right of Way and Construction Plans for a 2 lane, single span bridge on County Route 65/5 over Rockhouse Fork in Mingo County. Services included field surveying, right of way, utilities verification and relocation, storm drainage, traffic control and approach road design.

***WVDOH Highway Projects - Various Highway Engineering Consultants, West Virginia***

As a Project Manager, provided services for topographic mapping and right of way services on several WVDOH projects for various highway consulting engineering firms. Responsibility included the generation of site surveys, property boundary mosaics, courthouse research, right of way questionnaires, and the development of right of way plans and parcel descriptions toward the development of highway construction plans. This work includes locating all physical and topographic features, utility locations, storm drainage features, property boundary lines, courthouse research and interaction with all existing property owners to complete property questionnaires for right of way acquisition. Some notable highway design projects include:

- Appalachian Corridor D - Parkersburg, WV (various sections),
- Appalachian Corridor H - Grant and Tucker Counties, WV (various sections),
- I-64 Widening - Kanawha County, WV,
- I-79 Widening - Marion County, WV,
- Route 10 Upgrade - Logan County, WV,
- King Coal Highway - Mercer County, WV, and
- U.S. Route 522 - Berkeley County, WV.

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## **SURVEYING**

### ***Bob Evans Farms, Inc., Columbus, Ohio***

As a Project Manager, provided complete services for an ALTA/ACSM Survey of the Bob Evans Restaurants in Huntington, West Virginia and Cannonsburg, Kentucky. Services included field surveying (boundary and topographic), courthouse research and assessment of the Title Commitment for the subject property.

### ***Three Gables Surgical Center, Proctorville, Ohio***

As a Project Manager, provided complete services for an ALTA/ACSM Survey of the new surgical center in Proctorville, Ohio. Services included field surveying (boundary and topographic), courthouse research and assessment of the Title Commitment for the subject property.

### ***Huntington Industrial Corporation, Huntington, West Virginia***

As a Project Manager, provided complete services for an ALTA/ACSM Survey of the Prichard Industrial Park in Wayne County, West Virginia. Services included field surveying (boundary and topographic), courthouse research and assessment of the Title Commitment for the subject property.

### ***Structures Resources, Inc., Huntington, West Virginia***

As a Project Manager, provided complete services for numerous ALTA/ACSM Surveys of various sites in Cabell, Putnam, Kanawha and Wayne Counties in West Virginia. Services included field surveying (boundary and topographic), courthouse research and assessment of the Title Commitment for the subject property. Sites have included the following: Commerce Park, Cabell and Wayne Counties, The Hamlets, Cabell County, Lakeview Manor, Wayne County, Carriage Hill, Kanawha County, Teays Commons, Putnam County.

### ***Abandoned Mine Lands, Statewide Contract, Various Locations, West Virginia***

As a Project Manager provided services for topographic mapping for various Abandoned Mine Land (AML) projects throughout West Virginia. Provided topographic mapping and coordinated aerial photogrammetry for various types of AML projects include landslide correction include retaining wall design and site grading and drainage improvements, acid mine drainage collection and neutralization, water line upgrade and extensions, and various projects requiring site regrading and drainage upgrade. Work on these projects also included establishing horizontal and vertical control surveys for aerial photogrammetry mapping, baseline layout, referencing control points, generating check cross sections and site surveys including all physical and topographic features of each unique site.

### ***Town of Poca, Poca,, West Virginia***

Provided project management, planning, and surveying services for an annexation of approximately 33.3 acres of land into the existing corporation limits of the Town of Poca by minor boundary adjustment.

## **POTABLE WATER**

### ***Lincoln Public Service District, Lincoln County, West Virginia***

As a Project Manager, lead designer, and Engineer of Record, Mr. Fogarty provided coordination, oversight, staffing assignments, design engineering, and quality control review for numerous waterline extension projects for the Lincoln PSD, including:

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Alkol Phase I Waterline Extension Project. The project consisted of approximately 33,000 feet of 8", and 47,000 feet of 6" PVC C-900 water pipe, new booster station, 100,000 gallon water storage tank, fire protection and other appurtenances.

Alkol Phase II Waterline Extension Project. The project consisted of approximately 2,000 feet of 8", and 62,000 feet of 6" PVC C-900 water pipe, new booster station, 100,000 gallon water storage tank, the rehabilitation of the existing Alum Creek water storage tank, fire protection and other appurtenances.

Route 3, Griffithsville to Hamlin Waterline Extension Project. The project consisted of approximately 36,000 feet of 8", 34,000 feet of 6" PVC C-900 water pipe, and 10,000 feet of 2" PVC Class 250 water pipe, 200,000 gallon water storage tank, new master meter, fire protection and other appurtenances.

***Branchland-Midkiff Public Service District, Lincoln County, West Virginia***

As a Project Manager, lead designer, and Engineer of Record, Mr. Fogarty provided coordination, oversight, staffing assignments, design engineering, and quality control review for the Fourteen Mile Waterline Extension Project. The project consisted of approximately 70,000 feet of 8" to 2" PVC C-900 water pipe, upgrade to an existing pump station, two new booster pump stations, two 150,000 gallon water storage tanks, fire protection and other appurtenances.

***WVDEP/Abandoned Mine Lands and Reclamation Section, Charleston, West Virginia***

As a Project Manager and lead designer, Mr. Fogarty provided services for the design of a waterline extension for the Norton- Harding-Jimtown Public Service District in Randolph County, West Virginia. The assignment included the coordination of aerial photogrammetric mapping, geotechnical investigation, and the preparation of plans and specifications for planned extensions to three communities (Pumkintown, Mabie, and Green). The project consisted of approximately 30,000 feet of 6" and 8" PVC SDR 21 water pipe, one new booster pump station, one 100,000 gallon water storage tank, fire protection and other appurtenances.

As a Project Manager, Mr. Fogarty provided coordination, oversight, staffing assignments, report preparation and cost estimating services for a water system studies for the City of Mullens in Wyoming County, and the Communities of Dille/Widen and Mill Creek in Nicholas and Clay Counties in West Virginia. The Phase I Study was conducted to determine the extent of degradation to the water source due to Pre-Law Mining Activity. A Phase II Study was also conducted to provide in-depth, site specific research of past and present mining activity, interviews with area residents, water sampling and testing, and the preparation of a cost estimate of potential waterline installation.

## **SANITARY SEWER**

***Greater St. Albans Public Service District, St. Albans, West Virginia***

Provided Coordination and field verifications for an Infiltration/Inflow (I/I) Study for portions of the existing sanitary sewer system. This assignment also included recommendations for the rehabilitation, both replacement and in-situ lining, of existing sewer pipe.

***Marlaing Addition Sewer System Extension, St. Albans, West Virginia***

Provided design services for the extension of the Greater St. Albans Public Service District sanitary sewer system into Marlaing Addition adjacent to the City of St. Albans Corporate Boundary. New facilities included 8-inch PVC gravity line, manholes, 4-inch force main, and pump stations.

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***Central West Virginia Regional Airport Authority, Yeager Airport, Charleston, West Virginia***

Provided Project Management, Planning, Surveying, Design and Inspection Services on numerous projects from 1987 to present including:

Removal of the existing package sewage treatment system for the General Aviation Operations Area, and replacement with 4,500 feet of 8-inch gravity sewer line, including manholes and cleanouts, and tie-in to the Charleston Sanitary Board sewer system on Elk Two Mile Creek.

Removal of the existing package sewage treatment system for the Main Terminal Operations Area, and replacement with 3,000 feet of 8-inch gravity sewer line, including manholes and cleanouts, and tie-in to the Charleston Sanitary Board sewer system on Elk Two Mile Creek.

Design of an aircraft de-icing system to collect and properly divert used de-icing fluid (glycol) during winter operations on the main terminal apron. The project included the installation of a Total Organic Carbon (TOC) analyzer, a wet weather overflow structure on the apron for heavy rain events, an automatic valving system, 3,500 feet of 8-inch ductile iron sewer pipe, manholes, and tie-in to the Charleston Sanitary Board sewer system on Elk Two Mile Creek.

***Town of Poca, Poca, West Virginia***

Provided supplemental design services, shop drawing review, and periodic inspection for the wastewater treatment plant and sanitary sewer line extension for the Town of Poca.

**Professional Affiliations**

American Society of Civil Engineers  
Society of American Military Engineers  
International Right of Way Association  
Construction Specifications Institute  
American Planning Association  
American Water Works Association  
West Virginia Society of Professional Surveyors  
Kentucky Association of Professional Surveyors  
West Virginia Airport Managers Association

**Previous Work History**

Triad Engineering, Inc., Vice President/Senior Engineer/Civil and Survey Manager, 1996-2005  
Chapman Technical Group, Vice President Transportation Engineering, 1991-1996  
Chapman Technical Group, Project Engineer, 1986-1991  
Steel Service Company, Senior Steel Detailer, 1985-1986

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# R. Todd Schoolcraft, PLA, ASLA

## *Landscape Architect*

### **General Qualifications**

Over 16 years of experience in the fields of landscape architecture and land planning, with over 24 years of experience in the building and construction industry. Major areas of specialty include commercial development, land planning and design, public development, site planning and design, park and recreation design, trails and greenways, streetscape design and urban planning, and residential subdivision layout.

### **Experience**

**Projects** Mr. Schoolcraft is currently engaged with at Baker include the Kanawha & Putnam County Bicycle - Pedestrian Plan; Maple Avenue Streetscape, Moorefield; Town of Mason Phase II Streetscape Improvements; West Milford Sidewalk Improvements; and the Country Roads Scenic Byway CMP.

### **PRIOR BAKER EXPERIENCE**

**E.L. Robinson Engineering Company, JANUARY 2001-MARCH 2007, Senior Landscape Architect**, Director of landscape architecture operations for the firm. Was responsible for all facets of landscape architectural production to include marketing, business development, proposal and qualification statement writing, interviews, contract negotiation, client communication, graphics, schematic design, design development, construction document preparation and construction administration. Specific projects included the Huntington Museum of Art Sensory Trail & Butterfly Garden; Roaring River Design Guidelines, New River Gorge; Follansbee City Park MP; Pinch Elementary School Playground; Logan County Courthouse ADA Renovations; J.G. Bradley Campground & Trailhead; Star City Streetscape & Trailhead; Hinton Island City Park Master Plan; Paint Creek Park & Nature Trail MP; Huntington Museum of Art Nature Trails; Beech Bottom Community Park Master Plan; Terra Alta Community Park Master Plan, Preston County; Brooke - Hancock Veterans Memorial Park, Weirton; Toronto Streetscape Concept Design, Ohio; Montgomery Amtrak Train Station; Smithers City Park Master Plan; and the Brooke Hills Park Master Plan, Brooke County.

**Environmental Design Group, OCTOBER 1993-DECEMBER 2000, Landscape Architect**, Responsible for various facets of landscape architectural production for the Charleston, WV office of Environmental Design Group to include Office Manager. Other responsibilities included business development, proposal and qualification statement preparation, project interviews, contract negotiation, client communication, graphics, schematic design, design development, construction document preparation and construction administration. Specific projects included the Greenbrier River Rail-Trail Flood Recovery; Stonewall Jackson Lake SP

**Years with Baker:** <1

**Years with Other Firms:** 16

### **Education**

B.S. Landscape Architecture, West Virginia University, 1991

Safe Spaces: ASLA Security Design Symposium, Chicago, IL, 2004

AQUA Conference Educational Sessions, Las Vegas, NV, 2005

CERFP Team Training, WV Army National Guard, 2006

### **Registrations**

PLA, West Virginia, 1995

PLA, Ohio, 2002

CLARB Certified, 2001

### **Professional Affiliations**

WV State Board of Landscape Architects

American Society of Landscape Architects

WV Chapter - American Society of Landscape Architects

Associate Member - AIA West Virginia

Society of Military Engineers

National Guard Association

WV Rails-to-Trails Society

Elkland Pool Board

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Conference Center; Wallace-Hartman Nature Preserve; Tamarack Arts Center; Delbarton Historic Concrete Bowstring Bridge Park; WV State Parks and Forests Accessible Cabins including Cacapon Resort SP, Blackwater Falls SP, Lost River SP, Holly River SP, Kumbrabow SF, Tygart Lake SP, Seneca SF, Watoga SP, Babcock SP, Greenbrier SF, Twin Falls Resort SP, Bluestone SP, and Pipestem Resort SP; Left Fork Boat Launch Facility; Asbury Woods Church Camp MP; Cedar Creek SP Campground; Chief Logan SP Miniature Golf; Mud River Lake Recreational Facilities; Chief Logan SP Conference Center; Historic Salem Train Depot; Little Beaver SP Campgrounds; Mill Creek Lake Recreation Area; and Oakmont Park Improvements.

**Chapman Technical Group, JUNE 1991-SEPTEMBER 1993, *Land Planner***, Responsible for various facets of landscape architecture and land planning, including resident inspection services. Other responsibilities included client communication, graphics, schematic design, design development, construction document preparation, specification writing and construction administration. Specific projects included the 130th Tactical Airlift Group, Charleston; Saint Albans Train Depot Master Plan; Yeager Airport Terminal Apron Rehabilitation; Bridge Road Intersection Realignment Master Plan, Charleston; Mercer County Airport Terminal Apron Rehabilitation; and the Huttonsville Correctional Center Site Development.

**West Virginia National Guard, SEPTEMBER 1983-NOVEMBER 2006, *Combat Engineer***, Over 23 years of time in service in the US armed forces. In last year of service held position as Operations Officer with the newly formed Chemical, Biological, Radiological, Nuclear or High Yield Explosive Enhanced Response Force Package Team, or CERFP Team with the West Virginia Army National Guard. CERFP Teams provide quick reaction emergency medical care and decontamination processes to victims of toxic chemical agent attacks delivered by weapons of mass destruction – the kind that Homeland Security and Defense officials fear could be used on American soil. Prior to this, was a design engineer with the Design Section of the 111th Engineer Group, WV Army National Guard. The 111th Engineer Group served an eleven month deployment in the Middle East in support of Operation Iraqi Freedom and Operation Enduring Freedom. During that time Mr. Schoolcraft was awarded the Bronze Star Medal for meritorious service associated with a multitude of engineering and architectural projects in Kuwait and Iraq. Projects completed in the Southeast Asian theater included the 2.4 kilometer Truck Road, Camp Arifjan; Robert E. Rooney Marshalling Yard and Final Rinse Facility, Port Ash Shuaybah; CFLCC Office Space Renovations, Camp Arifjan; CFLCC Command Group Upgrades, Camp Arifjan; and the APOD Consolidation Project, Kuwait City International Airport.

#### **OFFICES HELD**

- Current Treasurer, WV State Board of Landscape Architects
- Past President, WV Chapter American Society of Landscape Architects
- Past Treasurer, WV Chapter American Society of Landscape Architects
- Past Secretary, WV Chapter American Society of Landscape Architects

#### **HONORS AND AWARDS**

- WV Chapter – American Society of Landscape Architects
  - 2005 Merit Award – Russell Residence House and Site Improvements
- United States Army
  - 2003 Bronze Star – Operation Iraqi Freedom
- American Society of Landscape Architects
  - 1999 Medallion Award – Charleston Village District Streetscapes
- WV Chapter – American Society of Landscape Architects
  - 1999 Merit Award – Tamarack: The Best of West Virginia
- WV Chapter – American Society of Landscape Architects
  - 1995 Honor Award – NorthGate Business Park

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# Alison M. Rogers

## Environmental Specialist

### General Qualifications

Ms. Rogers is a senior environmental specialist with over 10 years experience conducting natural resource assessments for a variety of transportation and resource extraction projects. She is a versatile professional with experience ranging from jurisdictional wetland and stream delineations to aquatic and terrestrial ecological surveys. In addition to her technical experience, Ms. Rogers has participated in the development and writing of EAs and EISs, ESA Section 7 biological assessments and formal consultation packages, and Clean Water Act Section 404/401 permit packages. She has successfully led and completed numerous projects for federal and state agencies as well as private sector clients.

### Experience

**US 35, Putnam and Mason Counties, West Virginia. Kanawha Stone Company.** Task Manager and Environmental Specialist. Conducted stream delineations and biological assessments as required under CWA Sections 401 and 404 for a proposed fill area required for the construction of a segment of the US 35 in Putnam County. Assisted the construction contractor with preparation of the 401 and 404 permit applications and developed a compensatory stream mitigation plan. The compensatory stream mitigation plan included construction plans for the on-site replacement of streams following construction of the fill site, and the restoration of a degraded tributary within the Long Branch watershed utilizing natural channel design techniques.

**Appalachian Corridor H, Randolph, Tucker, Grant, and Hardy Counties, West Virginia. West Virginia Department of Transportation, Division of Highways.** Task Manager and Environmental Specialist. Serve as a liaison between WVDOH, cooperating agencies, and engineering design consultants concerning mitigation commitments on all nine logical termini projects. Manage environmental mitigation tasks including, vegetation reclamation surveys, historical resource mitigation monitoring, and Section 404 permit modifications. Implement mitigation monitoring protocol, conduct data collection, data analysis, write, and assist with production of all monitoring summary reports. Compile water chemistry and biological sampling data for constructed projects, and those projects under final design and/or construction. Coordinate and assist with outstanding environmental issues including threatened and endangered species surveys (Indiana bat, running buffalo clover, Cheat Mountain salamander, and West Virginia northern flying squirrel) wetland and stream delineations, and historical structure landscaping, and archaeology.

Years with Baker: 3

Years with Other Firms: 7

#### Education

M.S., 1999, Biological Sciences,  
Marshall University

B.S., 1994, Biology, West Virginia  
State College

#### Licenses/Certifications

Rosgen Stream Cert-Applied Fluvial  
Geomorphology/L-1, 2002

Rosgen Stream Cert-River  
Morphology & Applications/L-2, 2005

Rosgen Stream Cert-River  
Assessment & Monitoring/L-3, 2006

Rosgen Stream Cert-River  
Restoration & Natural Channel  
Design/L-4, 2006

Reg. IV Wetland Certification  
Training, 2002

Wetland Delineation & Management  
Training Program, 2002

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**Compensatory Stream Mitigation Plan, Hardy County, West Virginia.** *Town of Moorefield.* Task Manager and Environmental Specialist. Identified potential stream mitigation locations, and assisted the client with agency meetings and correspondence. Prepared a 404(b)(1) analysis for the sites, as well as a compensatory stream mitigation plan. The stream mitigation plan included an existing conditions assessment of two degraded streams located in the South Branch of the Potomac River watershed and construction plans for the restoration of each stream. Provided direction and oversight during construction activities.

**Kanawha Falls Bridge Replacement EA, Fayette County, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Assistant Project Manager and Environmental Specialist. Assist project manager with client coordination and project status reports. Manage environmental studies for the preparation of an EA for the project including cultural resource surveys, aquatic resource surveys, and rare, threatened, and endangered species surveys. Assist with writing and editing of a Biological Assessment for informal ESA Section 7 consultation for three federally endangered mussel species and one federally endangered plant species, as well as an aquatic resources technical report. Assist with agency coordination, public involvement, and writing, editing, and production of the EA.

**Environmental Baseline Data Collection, Mingo County, West Virginia.** *Confidential Client.* Task Manager and Environmental Specialist. Conducted and coordinated fieldwork including stream jurisdictional determinations and delineations, ephemeral/intermittent point determinations, habitat assessment evaluations, and fish and benthic macroinvertebrate sampling following the Rapid Bioassessment Protocol. Conducted floristic assessments to document the land cover by aspect within the proposed project area. Prepared technical reports to document survey results.

**Appalachian Corridor H, Parsons-to-Davis Project SEIS, Tucker County, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Environmental Specialist. Document preparation, engineering coordination, and fieldwork for studies conducted for a supplemental EIS for the Parsons-to-Davis Project of Appalachian Corridor H. Assisted with technical editing and production of a Biological Assessment and formal ESA Section 7 consultation documents for the federally endangered West Virginia northern flying squirrel. Coordinated with design engineers to avoid and minimize impacts to sensitive resources during alignment development. Conducted an assessment of a native brook trout stream within the project study area, and performed data analysis, and prepared a technical report of the results. Assisted with writing and technical editing of the existing environment section of the SFEIS.

**Appalachian Corridor H, Davis to Bismarck, Tucker and Grant Counties, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Environmental Specialist. Coordinate and assist with live trapping surveys for the West Virginia Northern Flying Squirrel for Davis to Bismarck section of Appalachian Corridor H. Assist with writing and preparation of a Biological Assessment for the West Virginia Northern Flying Squirrel as part of informal ESA Section 7 consultation.

**I-69, Tier II Section 5 EIS, Bloomington, Indiana.** *Indiana Department of Transportation.* Task Manager and Environmental Specialist. Conducted floristic surveys for state and federally listed threatened and endangered plant species, coordinated and assisted with mussel and fish surveys conducted on streams, and performed stream and wetland delineations and ecological assessments within the project corridor. Conducted land use and land cover assessments, and assisted with writing and preparation of technical reports and the EIS.

**New River Parkway Aquatic Resources Survey and 404 (b)(1) Analysis, Raleigh and Summers Counties, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Task



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Manager and Environmental Specialist. Coordinated and assisted with an aquatic habitat and mussel survey conducted on the New River in the vicinity of a proposed New River Parkway bridge. Conducted a floristic survey, riparian habitat assessment, and coordinated with federal and state agencies to gather benthic macroinvertebrate and fish data collected from long term monitoring sites on the New River. Assisted with writing, editing, and production of the report and CWA Section 404 (b)(1) alternatives analysis for the proposed bridge for client and agency review.

**Appalachian Corridor D EIS, Wood County, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Task Manager and Environmental Specialist. Assisted with development of a compensatory wetland mitigation monitoring plan. Conducted vegetation and hydrologic surveys to determine compensatory wetland development success. Conducted monitoring surveys for aquatic macroinvertebrates, fish, amphibians, migratory water fowl, and neotropical migrants to determine ecological use of the compensatory wetland. Assisted with writing and preparation of annual reports for client and agency review.

**Shawnee Parkway, Mercer and Raleigh Counties, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Task Manager and Environmental Specialist. Coordinated and assisted with surveys for the Indiana bat, *Myotis sodalis*, along the project corridor. Assisted with writing and preparation of reports in compliance with ESA Section 7 requirements.

**King Coal Highway, McDowell, Mercer, Mingo and Wyoming Counties, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Task Manager. Coordinated and assisted with all post Record of Decision (ROD) activities including production of development status maps, federally threatened and endangered species surveys and archeology.

**Coalfields Expressway, McDowell, Raleigh and Wyoming Counties, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Task Manager. Coordinated and assisted with all post Record of Decision (ROD) activities including production of development status maps, federally threatened and endangered species surveys and archeology.

**ORT I-05 5425 Tri-State Tollway & Ronald Reagan Memorial, DuPage County, Illinois.** *Illinois State Toll Highway Authority.* Environmental Specialist. Conducted wetland delineations for the I-88 Plaza 51 toll collection facility re-construction project. Prepared wetland findings technical report for client and agency review.

**Kempton Refuse and AMD Project, Tucker County, West Virginia.** *West Virginia Department of Environmental Protection, Division of Land Restoration, Abandoned Mine Lands and Reclamation.* Environmental Specialist. Conducted wetland and stream delineations, assisted with writing and production of wetland findings report and stream restoration and enhancement plan.

**Spring Branch Deep Mine, Mingo County, West Virginia.** *Consolidation Coal Company/Laurel Run Mining Company.* Environmental Specialist. Conducted and coordinated fieldwork including stream delineations, stream jurisdictional determinations, ephemeral/intermittent point determinations, habitat assessment evaluations, and benthic macroinvertebrate sampling of streams potentially impacted by a proposed deep bituminous coal mine. Prepared technical reports in support of Clean Water Act, Section 401 and 404 permits for a deep mine permit application.

**Daniel Hollow, Logan County, West Virginia.** *Arch Coal, Inc./Mingo Logan Coal Company.* Environmental Specialist. Conducted and coordinated fieldwork including stream delineations, stream jurisdictional determinations, ephemeral/intermittent point determinations, habitat assessment

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evaluations, and benthic macroinvertebrate sampling for Clean Water Act, Section 401 and 404 permits for a large surface bituminous coal mine permit application.

**S-3004-95-VF 5 COE, Boone County, West Virginia.** *Arch Coal, Inc./Catenary Coal.*

Environmental Specialist. Conducted and coordinated fieldwork including stream delineations, stream jurisdictional determinations, ephemeral /intermittent point determinations, habitat assessment evaluations, and benthic macroinvertebrate sampling for Clean Water Act, Section 401 and 404 permits for a large-scale surface bituminous coal mine.

**PRIOR BAKER PROJECT EXPERIENCE**

**WV Department of Agriculture, Plant Industries Division, Forest Health Protection Unit.** Regional Supervisor. Coordinated with private property owners, and Federal and state agencies to conduct a monitoring survey for gypsy moth, and to conduct aerial insecticide treatments of colonies identified by the survey. Prepared NEPA documents, press releases, and work and safety plans for aerial treatment programs in southern West Virginia. Participated in other forest health surveys including hemlock wooly adelgid, and supervised 2 permanent and 3 seasonal employees.

**WV Department of Transportation, Division of Highways Engineering Division, Environmental Section.** Transportation Systems Analyst. Coordinated and managed NEPA documentation for highway projects. Prepared wetland and aquatic resource impact reports, and compensatory mitigation plans for CWA Section 404 permits from the U.S. Army Corps of Engineers. Delineated wetlands adjacent to or within highway project areas. Performed stream assessment surveys for benthic macroinvertebrates and physical channel stability. Assisted highway engineers with natural stream channel design project plans and compensatory wetland development plans. Conducted field surveys for Federally Listed Threatened and Endangered species, and State Listed Species of Concern. Presented natural stream channel design concepts at agency conferences.

**Ohio Department of Agriculture, Division of Plant Industry, Plant Pest Control Section. Gypsy Moth Program.** Gypsy Moth Program Manager. Managed the Ohio Gypsy Moth Cooperative Suppression Program and Gypsy Moth Slow-The-Spread Project. Organized and conducted surveys to evaluate established population densities, map and record tree damage and mortality, and monitor, detect, and delimit isolated colonies. Coordinated and administered aerial treatment projects to minimize the impacts of gypsy moth and slow the spread of isolated gypsy moth colonies. Drafted program budget, prepared and administered USDA Forest Service grants, and prepared and implemented cooperative agreements with various federal and state agencies. Assisted township and city officials in developing strategies to manage the gypsy moth during peak population periods. Prepared NEPA documents, press releases, and work and safety plans for aerial treatment projects; produced monthly summaries and final program reports. Developed educational literature and program displays; presented program information at educational seminars throughout Ohio. Supervised 5 permanent office and field staff, and 40 seasonal employees.

**Marshall University Research Corporation.** Research Assistant. Identified suitable habitat and conducted surveys for amphibians, reptiles, song birds, and mammals to determine baseline conditions within the Bluestone National Scenic River. Monitored terrestrial salamander populations with cover boards and nocturnal survey methodology on two forest management projects. One project assessed initial environmental impact to amphibians immediately after two types of timber harvest methods, and the second assessed amphibian population structure before and after insecticide treatments to control gypsy moth populations. Implemented refugia bag monitoring stations to collect baseline data on salamander

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communities in four headwater streams treated with powdered calcium carbonate to neutralize water pH. Designed posters and presentations for regional conferences. Organized and analyzed data for reports to granting corporations and Federal agencies, including the Mead Westvaco Corporation, USDA Forest Service, USDI National Park Service, and U.S. Army Corps of Engineers.

**New-Bold Enterprises, Inc., Bluestone Dam Safety Assurance Program EIS.** Vertebrate Biologist. Identified suitable habitat and conducted surveys for mammals, songbirds, amphibians, and reptiles with emphasis on the presence of T & E species. Organized and assisted with final biological evaluation submitted to U.S. Army Corps of Engineers.

**Timberline Four Seasons Resort, Ski Slope Installation Mitigation Project.** Vertebrate Biologist. Collected biological and environmental data for a ski slope impact assessment on a population of Cheat Mountain Salamander, a Federally Threatened species. Organized and analyzed data for annual report.

#### **CONTINUING EDUCATION/TRAINING**

NEPA Project Management, and Writing NEPA Documents, U.S. Forest Service/Shiple Group, February 2003

Endangered Species Act, Section 7 Consultation, Federal Highway Administration, May 2002

#### **PUBLICATIONS**

Pauley, Thomas K., Ronald Canterbury, and Alison Rogers. 2001. *Bluestone National Scenic River Vertebrate Inventory, Final Report*. Submitted to the National Park Service, New River Gorge National River, Glen Jean, West Virginia.

Pauley, Thomas K. and Alison Rogers. 1998. *Baseline Inventory of Amphibian and Reptiles on the Westvaco Wildlife and Ecosystem Research Forest*. Submitted to the Westvaco Corporation.

#### **PRESENTATIONS**

*Natural History and Ecology of Rana clamitans melanota in West Virginia*. West Virginia Academy of Sciences, 73rd Annual Meeting, April 1998.

#### **PROFESSIONAL AFFILIATIONS**

Society for the Study of Amphibians and Reptiles (SSAR)

American Society of Mammalogists (ASM)

Society of Wetland Scientists (SWS)

Brooks Bird Club, West Virginia Chapter

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# Jason T. Smithson, P.S.

## Civil Associate

### General Qualifications

Mr. Smithson is currently employed as a Civil Associate at the Charleston, West Virginia office of Baker's South Region.

Mr. Smithson has over eight years of diverse experience that includes assignments in civil design, geotechnical engineering, environmental science, surveying, drilling, construction inspection and field and laboratory materials testing.

### Experience

**Town of Hambleton, Hambleton, West Virginia.** As a Project Surveyor, Mr. Smithson established horizontal and vertical control and provided topographic mapping by conventional and GPS survey methods, to provide data for the design to correct existing poor drainage issues throughout the Town of Hambleton, West Virginia.

**Town of Moorefield, Moorefield, West Virginia.** As a Project Surveyor, Mr. Smithson provided topographic mapping data for the engineering design to correct existing poor drainage issues and the design of a new sidewalk along Maple Avenue in Moorefield, West Virginia.

### Prior Baker Experience

**Various WVDOH Highway Projects, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Some notable highway design projects include: Appalachian Corridor D - Parkersburg, WV; Appalachian Corridor H - Grant and Tucker Counties, WV; I-64 Widening - Kanawha County, WV; I-79 Widening - Marion County, WV; Route 10 Upgrade - Logan and Cabell Counties, WV; King Coal Highway - Mercer and Logan Counties, WV; U.S. Route 522 - Berkeley County, WV; Coalfields Expressway - Raleigh County, WV; West Virginia Turnpike Widening - Raleigh County, WV. Geotechnical Geologist, Project Surveyor and Engineering Technician. Mr. Smithson provided subsurface investigation data, topographic mapping, and right of way services on several WVDOH projects for various highway consulting engineering firms. Responsibilities on these projects consisted of the generation of site surveys, property boundary mosaics, courthouse research, right of way questionnaires, and the development of right of way plans and parcel descriptions. Additionally, he provided geologic analysis data for the subsurface investigation to support the Geotechnical Engineering functions toward the development of highway construction plans. This work included locating all physical and topographic features, utility locations, storm drainage features, property boundary lines, courthouse research and interaction with all existing property owners to complete property questionnaires for right of way acquisition, drill program planning, core logging and analysis, and cut-fill slope design.

Years with Baker: 1

Years with Other Firms: 7

#### Education

B.S., 1999, Geology, West Virginia University

#### Licenses/Certifications

Professional Surveyor, West Virginia, 2007, 2153

OSHA 40-Hour HAZWOPER Certification, 1999

OSHA 10-Hour Safety Training, 2005

Certified Well Driller, West Virginia, 2002, WV00316

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**Bob Evans Farms, Inc., Columbus, Ohio.** *Bob Evans Farms, Inc.* Project Surveyor. Mr. Smithson provided complete services for an ALTA/ACSM Survey of the Bob Evans Restaurants in Huntington, West Virginia and Canonsburg, Kentucky. Services included field surveying (boundary and topographic), courthouse research and assessment of the Title Commitment for the subject property.

**Three Gables Surgical Center, Proctorville, Ohio.** *Three Gables Surgical*

*Center.* Project Surveyor, Mr. Smithson provided complete services for an ALTA/ACSM Survey of the new surgical center in Proctorville, Ohio. Services included field surveying (boundary and topographic), courthouse research and assessment of the Title Commitment for the subject property.

**Huntington Industrial Corporation, Huntington, West Virginia.** *Huntington Industrial Corporation.* Project Surveyor, Mr. Smithson provided complete services for an ALTA/ACSM Survey of the Prichard Industrial Park in Wayne County, West Virginia. Services included field surveying (boundary and topographic), courthouse research and assessment of the Title Commitment for the subject property.

**Structures Resources, Inc., Huntington, West Virginia.** *Structures Resources, Inc.*

Project Surveyor. Mr. Smithson provided complete services for numerous ALTA/ACSM Surveys of various sites in Cabell, Putnam, Kanawha, and Wayne Counties in West Virginia. Services included field surveying (boundary and topographic), courthouse research and assessment of the Title Commitment for the subject property. Sites have included the following: Commerce Park, Cabell and Wayne Counties; The Hamlets, Cabell County; Lakeview Manor, Wayne County; Carriage Hill, Kanawha County; and Teays Commons, Putnam County.

**84 Lumber Inc., Elkview, West Virginia.** *84 Lumber Inc.* Project Manager/Surveyor. Mr. Smithson provided complete services for an ALTA/ACSM Survey of the Elkview 84 - Lumber site in Kanawha County, West Virginia. Services included field surveying (boundary and topographic), courthouse research and assessment of the Title Commitment for the subject property.

**Abandoned Mine Lands, Statewide Contract, Various Locations, West Virginia**

Project Surveyor. Mr. Smithson provided services for topographic mapping for various Abandoned Mine Land (AML) projects throughout West Virginia. During these projects he provided topographic mapping and coordinated aerial photogrammetry. This data was incorporated in the design of landslide correction, retaining wall design, site grading, drainage improvements, acid mine drainage collection and neutralization, water line upgrade and extensions. Work on these projects also included: establishing horizontal and vertical control surveys for aerial photogrammetry mapping, baseline layout, referencing control points, generating check cross sections and site surveys including all physical and topographic features of each unique site.

**Photogrametric Control Surveys, Various Locations, West Virginia.** *West Virginia. Department of Environmental Protection.* Work performed by Mr. Smithson on these projects included establishing horizontal and vertical control surveys for aerial photogrammetry mapping, baseline layout, and referencing control points. This work was performed utilizing GPS and conventional survey methods.

**Wood County Schools, Parkersburg and Williamstown, West Virginia.** Field Crew Supervisor. Responsible for providing complete boundary and topographic information for the upgrade of three Wood County High Schools. During this project Mr. Smithson was responsible for three survey field crews that incorporated the use of GPS and conventional survey methods.

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**St. Mary's Hospital, Huntington, West Virginia.** *St. Mary's Hospital.* Field Supervisor. Responsible for collecting data for drainage improvement, parcel consolidation, and right-of-way abandonment. Mr. Smithson was responsible for three survey field crews that incorporated the use of GPS and conventional survey methods. Along with these responsibilities he also interacted with St. Mary's Hospital and the City of Huntington to satisfy the requirements and needs of both parties.

**Town of Mason Waterline Upgrade, Mason, West Virginia.** Provided topographic information pertaining to the upgrade of the existing public water system.

**Lincoln Public Service District Waterline Extension, Alkol, West Virginia.** Provided topographic information pertaining to the addition and upgrade of the existing public water system.

**Yeager Airport Runway Safety Area Upgrade, Charleston, West Virginia.**

Geotechnical Geologist. Throughout this project Mr. Smithson was responsible for the geologic evaluation of the soil overburden and bedrock qualities along with coordinating drilling activities for the subsurface investigation.

**Grant County Airport Runway Extension, Grant County, West Virginia.** Geotechnical Geologist. Throughout this project Mr. Smithson was responsible for the geologic evaluation of the soil overburden and bedrock qualities along with coordinating drilling activities for the subsurface investigation.

**Tri-State Airport Runway Safety Area, Huntington, West Virginia.** Geotechnical Geologist. Throughout this project Mr. Smithson was responsible for the geologic evaluation of the soil overburden and bedrock qualities along with coordinating drilling activities for the subsurface investigation.

**Marshall County Airport Upgrades, Moundsville, West Virginia.** Project Surveyor. Mr. Smithson provided engineering topographic and control surveys, construction layout monumentation, and as-built surveys for perimeter fencing and the construction of a Snow Removal Equipment Storage Facility at the airport.

**Dominion Resources, Hastings, West Virginia.** Project Environmental/Geotechnical Geologist, Mr. Smithson assisted the Licensed Remediation Specialist, and was responsible for subsurface investigation activities, in an alluvium aquifer type, to determine overburden and bedrock descriptions and groundwater flow analysis. He was directly responsible for the coordination of drilling and sampling activities associated with this project. Activities included delineation of contamination by subsurface drilling, soil sampling, groundwater sampling, sediment sampling, and surface water sampling.

**The Greenbrier, White Sulphur Springs, West Virginia.** *CSX Hotels, Inc.,* Project Environmental/Geotechnical Geologist. Mr. Smithson was responsible for subsurface investigation activities, in an alluvium/karst aquifer type to determine overburden and bedrock descriptions and groundwater flow analysis, along with the supervision of multiple environmental delineation crews. As a Project Geologist, assisted the Licensed Remediation Specialist in performing site characterization investigations at the four parcels entered into the West Virginia Voluntary Remediation Program. Work tasks included performing Geoprobe® direct-push investigations, groundwater sampling, landfill gas monitoring, and surface water and sediment sampling.

**Buckhannon Maintenance Facility, Buckhannon, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Project Environmental/Geotechnical Geologist. Mr. Smithson assisted the Licensed Remediation Specialist, and was responsible for subsurface investigation activities, in an alluvium aquifer type, to determine overburden and bedrock descriptions and groundwater flow analysis. Activities included delineation of contaminants by subsurface drilling, soil sampling, and

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groundwater sampling. With this data he participated in the implementation of a contaminant reduction program to remove groundwater pollutants involved on the site by means of extraction wells through vacuum methods.

**Mine Safety and Health Administration - Martin County Coal, Slurry Impoundment Failure Investigation, Martin County, Kentucky.** Project Geologist. Mr. Smithson's duties included the coordination of drilling activities with multiple drilling crews supported by a team of engineers and geologists. He supervised and participated in the subsurface investigation logging activities, the creation of bedrock contour maps, report preparation, and analytical testing on samples extracted from the drilling efforts.

#### **Computer Expertise**

Microsoft Word

Microsoft Excel

Corel Word Perfect

SMI Transfer

Trimble Data Transfer

Trimble Geomatics Office

Greenbrier Graphics Deed Plotter

GINT (Computer Generated Boring Log Program)

AutoCAD 2004

#### **Continuing Education/Training**

HAZ COM Training, U.S. Department of Labor-Mine Safety & Health Administration, WV, 2006

CSX Rail Operations Training, CSX Railway Corporation, Charleston, WV, 2005

West Virginia University Stream Mitigation Program (Level II), West Virginia University, Morgantown, WV, 2004

Microsoft Word and Excel, West Virginia University, Morgantown, WV, 1997

Corel Word Perfect, West Virginia University, Morgantown, WV, 1997

#### **Professional Affiliations**

West Virginia Society of Professional Surveyors

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# Timothy G. Zinn

## Architectural Historian

### General Qualifications

Mr. Zinn is a historic preservation specialist and architectural historian manager for the Pittsburgh office. He has over 19 years of experience in the Mid-Atlantic region, serving as both principal investigator and project/task manager for numerous historic resource projects in multiple states.

Mr. Zinn has a proven track record in Section 106 documentation, including Historic Resource Surveys, Determination of Eligibility studies, Criteria of Adverse Effect findings, Memoranda of Agreement, National Register of Historic Places nominations, Historic American Buildings Survey/Historic American Engineering Record (HABS/HAER) documentation, and State Historic Resource surveys.

Years with Baker: 13

Years with Other Firms: 7

#### Education

M.A., 1996, Historic Preservation,  
Middle Tennessee State University

B.S., 1986, Accounting/Computer  
Science, Salem College

#### Licenses/Certifications

Architectural Historian (36 CFR61)  
Qualified

Railroad Safety Training,  
Pennsylvania, 2006

### Experience

**Environmental Assessment for Runway 5-23 Safety Area Improvements and Extension, Akron-Canton Airport (CAK), Akron, Ohio.** *Akron-Canton Regional Airport Authority.* Architectural Historian. Responsible for conducting a pedestrian reconnaissance of the area to determine presence or absence of historic resources. Assisted with the preparation of Environmental Evaluation Form. To meet the fast-track needs of the Akron-Canton Regional Airport Authority, Baker completed an Environmental Assessment to analyze potential Runway Safety Area impacts associated with the proposed improvements to and extension of Runway 5-23. The enhancements were planned to increase runway operating safety in compliance with FAA regulations. Baker's work resulted in a Finding of No Significant Impact (FONSI) issued by the FAA just eight months following Notice to Proceed.

**Cultural Resource Services, Statewide, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Architectural Historian. Responsible for conducting historic resources surveys and prepared various cultural resources compliance studies. Michael Baker Jr., Inc. (Baker) was contracted by the West Virginia Department of Transportation, Division of Highways (WVDOH) to conduct NHPA Section 106 services. Baker's Charleston-based cultural resource and environmental staff, engineers, designers, planners, and technicians also support this project, if necessary.

**General Aviation Terminal Building Design, Connellsville Airport (VVS), Lemont Furnace, Pennsylvania.** *Fayette County Airport Authority.* Architectural Historian. Responsible for Determination of Eligibility Report, Criteria of Effect Report, and Section 4(f) Evaluation for a World-War II-era, 120-foot temporary hangar. Baker provided design services under a Task Order Engineering Agreement for the construction of this terminal building. The terminal building, with an estimated construction budget of \$1,800,000, was anticipated to be approximately 6,000 square feet in size based on preliminary discussions with the owner. The size of the existing hangar to be renovated is approximately 24,200 square feet. The anticipated construction budget for this portion of the work is \$700,000. In addition to design-related duties, Baker assisted the Airport Authority with a construction management



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support service, tailored to the client's needs. The Baker Team advised the Authority on schedule, quality, cost, and contractor coordination to assure well-informed and properly planned construction management of the project.

**Cultural Resources to Support Section 404 Permit, Akron-Canton Regional Airport (CAK), Akron, Ohio.** *Akron-Canton Regional Airport Authority.* Architectural Historian. Responsible for conducting a pedestrian reconnaissance of the area to determine presence or absence of historic resources. Assisted with the preparation of Environmental Evaluation Form. Baker conducted a Phase IA assessment of potential impacts to cultural resources from planned improvements to the Runway 5-23 Safety Area. Baker's thorough investigation of the project site revealed that there would be no impact to archaeological or architectural resources from the proposed construction. The OHPO concurred with Baker's findings and determined that no further reconnaissance was necessary.

**Outer Connector EIS, Fredericksburg, Virginia.** *Virginia Department of Transportation.* Architectural Historian. Responsible for assisting with the preparation of an Environmental Impact Statement. Also co-authored the FEIS. Baker was selected by the Virginia Department of Transportation (VDOT) to conduct this study of the northwestern segment of a potential circumferential controlled-access roadway (approx. 12 miles) in the Fredericksburg metropolitan area. The study included the evaluation of multi-modal investment strategies to address anticipated transportation deficiencies in the year 2025. The major deliverable was an Environmental Impact Statement. The project was very controversial and the public involvement program established was as involved as any program ever undertaken by VDOT.

**Southern Beltway, PA 60 to U.S. 22, Design Management Services, Allegheny and, Washington Counties, Pennsylvania.** *Pennsylvania Turnpike Commission.* Architectural Historian. Responsible for providing a review of Cultural Resources Studies. Baker was Pennsylvania Turnpike's Design Manager for the Southern Beltway project, a 35-mile limited access toll road from Pittsburgh International Airport at PA 60 to the Mon/Fayette Expressway. Six miles of this beltway is complete and open to traffic, from PA 60 to U.S. 22.

**Environmental Assessment (EA) and Roadway Improvements, SR-68, Riverton and South Jordan, Utah.** *Utah Department of Transportation.* Architectural Historian. Responsible for overseeing the preparation of a National Register Nomination. Baker performed an Environmental Assessment for 6.7 miles of roadway widening and reconstruction, including intersection improvements of SR-68 from Bangerter to 10600 South (south of 10400 South Intersection). Baker was responsible for the Environmental Assessment, conducting the environmental evaluations, and performed the preliminary design.

**Archaeological and Historic Resource Survey of the Bizzack Fill Areas, Parkersburg, West Virginia.** *Bizzack, Inc.* Architectural Historian. Responsible for preparing West Virginia Historic Property Inventory Forms and Determination of Eligibility Report. Baker performed a Phase I archaeological survey and historic resources survey and eligibility assessment of two noncontiguous, upland drainages that were selected for permanent dumping of residual soils resulting from construction of the Appalachian Corridor D highway system. The two proposed areas collectively spanned roughly 24 ha (60 ac). The work was conducted for Bizzack, Inc., Lexington, Kentucky. As part of the Phase I archaeological survey, two historic archaeological sites and a historic isolated find site were identified. The historic resources survey identified two unrecorded historic resources over 50 years of age.

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**County Route 530, Burlington County, New Jersey.** *Delaware Valley Regional Planning Commission.* Architectural Historian. Responsible for assisting with the preparation of a historic resources survey and the preparation of a Determination of Eligibility Report.

Baker concluded Final Scope Development and initiating Preliminary Design Services for the Delaware Valley Regional Planning Commission's County Route 530 Widening project. The proposed project involved reconstruction of Route 530 to incorporate the addition of a continuous center turn lane, reconfiguration of the existing intersection of Route 530 with Magnolia Road, and extension of Magnolia Road north of Route 530 to provide a direct connection with Hanover Street.

**HABS/HAER Documentation for Overbrook Trolley Line, Stage II LRT Corridor, Pittsburgh, Pennsylvania.** *Port Authority of Allegheny County.* Project Manager. Responsible for recording the National Register eligible Overbrook Trolley Line and four associated historic bridges according to Historic American Engineering Record standards. Baker's Cultural Resources Section assembled Historic American Engineering Record (HAER) information on the Port Authority of Allegheny County's Overbrook streetcar line, which included four historic bridges. Engineering changes and technological improvements to the line were documented and HABS/HAER-level photo-documentation of the resources was performed. These efforts were performed as mitigation of impacts to historic bridges identified in the Environmental Assessment for the Stage II LRT project.

**Lawrenceville Access Road, Pittsburgh, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 11-0.* Task Manager. Responsible for performing cultural resource investigations for a five-mile corridor traversing five Pittsburgh urban neighborhoods. Baker conducted a Needs Analysis, Congestion Management System Analysis and Design Alternative Studies and prepared the Environmental Impact Statement (EIS) for a proposed five-mile industrial access facility. Alternatives developed improved truck access to industrial sites without providing single occupancy vehicle commuters the same access. Significant project issues included alleviation of traffic congestion, connection to four major crossings of the Allegheny River, geotechnical concerns (unstable soils and landslide-prone areas), and relocation of an active rail line.

**ITS for the I-79 Corridor, Erie to Washington I-79 Hwy, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 12-0.* Team Member. Responsible for conducting user survey at rest areas. Baker led a team of nationally known consultants in an early deployment plan of an Intelligent Transportation Systems (ITS) for I-79 in western Pennsylvania. The study corridor stretches 140 miles, from Washington to Erie. The corridor covers a wide range of urban, suburban and rural areas, and serves a variety of users. An extensive program of stakeholder involvement and user surveys was conducted in order to learn the needs of the commuters, shoppers, recreational travelers and commercial vehicle operators.

**Comprehensive Facility Assessment and Architectural/Engineering Services, National Energy Technology Laboratories, Bruceton, Pennsylvania.** *U.S. Department of Energy.* Architectural Historian. Assisted with the preparation of a Cultural Resources Management Plan for Petco's South Hill's campus. Baker provided architecture, engineering, and program and construction management under two consecutive five-year open-end contracts for Title I, Title II, and Title III services for the entire 32-building campus. Task orders for 233 projects were completed under these contracts.

**Intermodal Freight Center, Erie International Airport/Tom Ridge Field (ERI), Erie, Pennsylvania.** *Erie Municipal Airport Authority.* Architectural Historian. Responsible for conducting a historic structures survey of the Fenestra manufacturing facility. Also responsible for recording the complex on a Pennsylvania Historic Resources Survey Form and prepared a National Register eligibility evaluation.

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Baker has provided planning, environmental, and engineering services for the demolition of the Fenestra manufacturing facility and the establishment of an Intermodal Freight Center. The environmental support element of this project included the following environmental assessment activities:

- Scoping sessions with the FAA, Erie Municipal Airport Authority, the Pennsylvania Department of Transportation Bureau of Aviation and related agencies
- Environmental coordination and analyses
- FAA Environmental Form A and C documentation

Baker developed an Environmental Form A for the Fenestra site demolition and an Environmental Form C for the cargo facility development. In addition to the environmental assessment activities, Baker provided obstruction analysis.

**Open End Contract for Various Engineering and Management Services, Statewide, Pennsylvania.**

*Pennsylvania Department of Transportation (PennDOT), Central Office.* Architectural Historian.

Responsible for conducting historic resources surveys, prepared Determination of Eligibility reports, and Criteria of Effects Evaluations for minor transportation projects and bridge replacements. Baker provided various engineering and environmental services to the Pennsylvania Department of Transportation (PENNDOT) Central Office. There were over 30 different work orders under this contract with various projects and tasks including the development of training manuals, guidelines and publications; software programming and analysis; and design review and bridge inspection services.

**New River Parkway Environmental Impact Statement, New River Gorge, West Virginia.**

*West Virginia Department of Transportation, Division of Highways.* Task Manager. As an Architectural Historian, identified and recorded historic resources. Co-authored the Cultural Resources Technical Report and Criteria of Effects Report. Principal author of the four-volume Addendum Report. Baker worked with the Community Design Assistance Center at Virginia Polytechnic Institute and State University to complete a historical, architectural and archaeological survey and evaluation of the New River Gorge area between Hinton and Sandstone, West Virginia. Baker's work also included Indiana Bat mist net survey and an extensive analysis of secondary and cumulative impacts.

**S.R. 22, Koez Access Study, Hollidaysburg, Pennsylvania.**

*Pennsylvania Department of Transportation (PennDOT), District 9-0.* Architectural Historian. Responsible for conducting windshield survey of historic resources and plotted locations on project constraints mapping. Baker conducted an access feasibility study for a Keystone Opportunities Enterprise Zone site in Hollidaysburg, Pennsylvania. The site housed an abandoned railroad car shop and rail yard. Baker conducted detailed traffic studies in the site area and projected traffic based on possible uses for the site.

**Historic Structures and Terrestrial Archaeological Site Identification and Analysis Services**

**Agreement 98-100B, Statewide, Maryland.** *Maryland State Highway Administration.* Architectural Historian. Responsible for conducting historic resources surveys and preparing Determination of Eligibility Reports. Baker provided consulting services on various task orders to the Office of Planning and Preliminary Engineering. The results of these task orders were then incorporated in environmental evaluations prepared by the State Highway Administration or by other consultants. Baker's architectural historians were especially conscious of the importance of sound historic resource evaluations in larger environmental evaluations.

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**DCFA #372-WSA-Engineering Program Management Consultant II A, Washington, DC.** *District of Columbia Water and Sewer Authority.* Architectural Historian. Responsible for providing preliminary historic resource evaluations on component facilities.

Baker provided overall program management of the water distribution system including planning, engineering design and engineering design management services, Master Plan, and Operations review and update in support of DCWASA's on-going capital improvement program.

**S.R. 18 Relocation Project (Geneva College) - Preliminary Engineering, Beaver County, Beaver Falls, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 11-0.*

Architectural Historian. Responsible for conducting a historic resources survey, preparing a Pennsylvania Historic Resources Survey Forms for selected resources, and preparing National Register eligibility assessments, including the Geneva College Historic District. The proposed project will realign S.R. 0018 to eliminate the two 90-degree turns on 32nd Street by providing a sweeping diagonal curvilinear alignment with two travel lanes, sidewalks and standard width parallel parking lanes on both sides of the roadway between 4th and College Avenues. In addition, the intersection of S.R. 0018 and 31st Street will have curb bulbouts to enhance pedestrian safety at the street crossing.

**Route 94, Phase I Archaeological & Intensive Architectural Survey, Statewide, New Jersey.** *New Jersey DOT.* Architectural Historian. Responsible for assisting with the preparation of a Determination of Eligibility Report. Baker conducted a Phase I archaeological and intensive architectural survey of Route 94 between Mt. Pleasant Road and Frog Pond Road, Knowlton Township, Warren County, New Jersey for the New Jersey Department of Transportation. The project consisted of the proposed replacement of the current concrete bridge over Yards Creek, a tributary of Paulins Kill, and related road widening activities. For the purposes of this survey, the preliminary area of potential effect (APE) for this project consisted of an approximately 1,219.2 m (4,000 ft) long segment of Route 94 between Mount Pleasant Road and Frog Pond Road, incorporating most of the Village of Hainesburg.

**Shepherdstown Bridge, Jefferson County, WV; Washington County, MD.** *West Virginia Department of Transportation, Division of Highways.* Architectural Historian. Responsible for conducting a historic resources survey and preparing a Determination of Eligibility report. Also assisted with Historic American Engineering Record photographic and written documentation. Baker was selected by the West Virginia Division of Highways (WVDOT) to provide all environmental and engineering services for the replacement of the James Rumsey Bridge. The bridge is a historic structure of Wichert Truss design originally constructed in 1937. It is listed on the National Register of Historic Places. The James Rumsey Bridge carries WV Route 480 and MD Route 34 vehicular traffic over the Potomac River. The bridge currently has sidewalks on both sides that carry pedestrians and bicyclists. The bridge also crosses over the C&O Canal National Park and National Register listed C&O Canal on the Maryland side. The town of Shepherdstown, West Virginia lies on the west side of the bridge. The replacement of the bridge is necessitated by its rapidly deteriorating condition. The AASHTO LRFD Bridge Design Specifications were used for this bridge design.

**Cedar Road Phases IV and V, Chesapeake, Virginia.** *Chesapeake, Virginia (City of).* Architectural Historian. Responsible for assisting with the preparation of cultural compliance studies. Baker staff members are providing professional engineering and environmental services for improvements to Cedar Road, Phases IV and V. The project is a 2.6-mile long, four-lane divided highway on new alignment from the intersection with Diamond Avenue on the west to the intersection with Dominion Boulevard (Route 104) on the East. The new alignment is north of existing Cedar Road and includes connections at the realigned existing Cedar Road (west)/Shipyard Road, Terwillinger Road, Millville Road, realigned existing Cedar Road (east)/ Seberial Way, Lancing Way and Dominion Boulevard (Route 104).

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**31st Street Bridge Rehabilitation, S.R. 2122, Section A03, Pittsburgh, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 11-0.* Task Manager. Responsible for managing cultural resources investigations and determinations of eligibility for the proposed rehabilitation of this 28-span, metal arch bridge, constructed in 1927-1928 over the Allegheny River. Co-author of Determination of Eligibility and Criteria of Effects Reports. Baker provided preliminary and final design services for the rehabilitation of the historic 31st Street Bridge in the City of Pittsburgh, Pennsylvania. In addition to structural rehabilitation, the objective of this project is to widen the bridge deck as much as possible. Investigations included consideration for replacement of approach spans versus rehabilitation.

**North-South Expressway, Location and Environmental Study, EIS/ROD, Caddo Parish, Louisiana.** *Louisiana Department of Transportation and Development (DOTD).* Architectural Historian. Responsible for reviewing cultural resources compliance studies and Louisiana Historic Resource Inventory forms prepared by sub-consultants. Baker conducted a preliminary engineering and environmental study of the North-South Expressway in Caddo Parish, Louisiana for the Louisiana Department of Transportation and Development. The proposed highway will be an interstate facility on new location, approximately 56 kilometers (35 miles) in length, between I-220 in Shreveport, Louisiana and the Arkansas state line.

**Airfield Maintenance Center Environmental, Pittsburgh International Airport (PIT), Pittsburgh, Pennsylvania.** *Allegheny County Airport Authority.* Architectural Historian. Responsible for conducting historic resources survey, prepared Pennsylvania Historic Resource Survey forms. Was also Principal author of Determination of Eligibility Report. Baker prepared a draft Environmental Reevaluation for a Proposed Airfield Maintenance Facility at Pittsburgh International Airport. Midway through the project, the location of the proposed facility changed and the project was re-scoped as an FAA Environmental Evaluation Form A with documented Cultural Resources coordination. This work was submitted under a separate contract.

**Environmental Scope Task Order Agreement, Statewide, New Jersey.** *New Jersey DOT.* Architectural Historian. Responsible for assisting with the preparation of various cultural resources compliance studies. Baker provided environmental Screening Services to the New Jersey Department of Transportation on a task order basis for projects in the Concept Development a Feasibility Assessment Phases. The Environmental Screenings involved an Ecological Assessments of soils, waterbodies, wetlands, floodplains, vegetation, and wildlife; socio-economic studies, land use & zoning, Section 4(f) investigations, Environmental Justice Analysis; Hazardous Materials Screening; and Cultural Resources Investigation for the presence of architectural and/or archaeological resources within the project area.

**FAA Environmental Evaluation "Form C" for Hangar Development, Allegheny County Airport (AGC), Pittsburgh, Pennsylvania.** *Allegheny County Airport Authority.* Architectural Historian. Responsible for conducting historic resources survey, prepared Pennsylvania Historic Resources Survey Forms for selected resources, prepared National Register eligibility assessments and served as principal author of Criteria of Effects Report. Baker worked closely with the Allegheny County Airport Authority to complete environmental clearances for FAA approval of proposed new hangar development at Allegheny County Airport. Specifically, Baker completed an FAA Environmental Evaluation "Form C" for the project. This included developing alternatives to avoid impacts to Mifflin Cemetery and the Heinz Hangar. Baker also conducted airport tenant interviews and a special meeting with airport tenants and West Mifflin Borough to obtain input on the alternatives and the proposed project. As part of follow-on work, Baker conducted a Phase I Archaeological Survey and prepared a historic structures letter report to

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meet a request from the Pennsylvania Historic & Museum Commission. A Finding of No Significant Impact from the FAA is anticipated shortly.

**National Register Determination of Olney Military Reservation, Gaithersburg, Maryland.** *U.S. Army Corps of Engineers, Baltimore District.* Project Manager. Responsible for conducting historic resources survey, prepared Maryland Inventory of Historic Properties forms, and prepared a letter report to clear the site of further cultural resources studies. Baker conducted a field survey of the facility to identify and evaluate all previously undocumented historic structures 50 years of age or greater. Documentation of each resource included, where appropriate, the completion of architectural resource field forms, field notes, sketches, site plans, and 35mm black & white photography. Baker also completed Maryland Inventory of Historic Properties (MIHP) Forms for newly identified historic resources, which assessed each building's potential to meet the Criteria for Evaluation for listing on the National Register of Historic Places (National Register).

**Cultural Resources Statewide Agreement, Various Locations, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Architectural Historian. Responsible for preparing West Virginia Historic Resource Survey Forms and Determination of Eligibility Report. Baker provided statewide cultural resources consulting services pertaining to Section 106 of the National Historic Preservation Act.

**Hickory Street Bridge, S.R. 3005, Section B00, (over the Allegheny River), Warren, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 1-0.* Architectural Historian. Responsible for conducting a historic resources survey, prepared Pennsylvania Historic Resource Survey Forms for surveyed resources, and was principal author of Determination of Eligibility Report. Also provided context sensitive design solutions for the design of the replacement structure. FHWA awarded Baker's design with the 2006 Transportation and Historic Preservation Excellence Award for context sensitive solutions in a historic setting. Baker designed a replacement for the Hickory Street Bridge in Warren, Pennsylvania. The original bridge, which carried S.R. 3005 over the Allegheny River, was a four-span, concrete arch bridge approximately 500 feet long. It served as a major community connector, linking businesses on the north side with neighborhoods on the south side of the Allegheny River. Built in 1917, the bridge was structurally deficient and functionally obsolete, and was closed to pedestrian and vehicular traffic. The goal of this project for the Pennsylvania Department of Transportation (PennDOT) was to design a bridge replacement that not only satisfies community expectations by replicating the aesthetics of the original structure, but meets PennDOT's funding and maintenance criteria.

**Spine Line Corridor MIS/DEIS, Pittsburgh, Pennsylvania.** *Port Authority of Allegheny County.* Task Manager. Responsible for performing cultural resource investigations for the proposed expansion of Pittsburgh's light rail transit system to the North Side and Oakland neighborhoods of the city. Baker participated in a Major Investment Study and draft environmental impact statement, conducted for the expansion of PAT's Light Rail Transit System. In a subconsultant role, Baker was responsible for environmental studies of three corridor alternatives from Downtown Pittsburgh eastward to Oakland and two corridors connecting Downtown Pittsburgh with the North Side. In addition, the study is also evaluated impacts associated with the Intra North Shore Circulation System which would connect major cultural attractions such as Three Rivers Stadium and the Carnegie Science Center.

**Power Supply Manifold Loop, Chartiers, So. Strabane, North Strabane Twps., Pennsylvania.** *Allegheny Power System.* Architectural Historian. Responsible for preparing a Historic Context of the study area, conducted a historic structures survey, and prepared a Determination of Eligibility Report. Baker conducted a Phase I cultural resources investigation for the Manifold Loop 138 kV transmission

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line. Subsurface testing identified seven potentially significant archaeological loci within the boundaries of the Study Area. Pennsylvania Archaeological Site Survey Forms were completed and submitted for each of these loci and it was recommended that these seven sites be avoided during project implementation.

**Market Street Bridge Replacement - Phases I and II Archaeological Field Investigations, City of Williamsport & Borough of S. Williamsport, Lycoming County, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 3-0.* Architectural Historian. Responsible for identifying and recording historic resources. Also responsible for preparing Pennsylvania Historic Resource Survey Forms for selected resources. The Market Street Bridge Replacement project consisted of Phase I and Phase II archaeological investigations. The urban setting of the project presented several challenges to the cultural resource effort which, spanning the Susquehanna River, required the definition of two, non-contiguous Areas of Potential Effect (APE), as well as separate APEs for archaeological resources and historic structures.

**Market Street Bridge Replacement (S.R. 0015), Preliminary and Final Design, Williamsport, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 3-0.* Task Manager. Responsible for preparing Pennsylvania Historic Resource Survey Forms for selected resources. Also responsible for identifying and recording historic resources. The Market Street Bridge replacement project involved in-depth structural inspection and rating/analysis, preliminary engineering and alternatives analysis, final design, and construction services for the construction of 6 new structures. Roadway work included reconstruction and widening of I-180 and construction of three roundabouts. Baker also performed all associated traffic work.

**Lakefront West Highway Improvements (CUY-6-12.20), Lake Ave/West Blvd to the Main Avenue Bridge, Cleveland, Ohio.** *Ohio Department of Transportation, District 12.* Architectural Historian. Responsible for conducting preliminary historic resources survey, assisted with the preparation of historic resource constraints mapping, co-author of Phase I cultural resources investigation report. The project includes the conversion of the existing Cleveland Memorial Shoreway (West Shoreway) from a six-lane, limited-access highway to a six-lane, low-speed, pedestrian-friendly facility. Baker provided a range of services to support the transportation improvements, including planning, traffic modeling, design, NEPA, and public involvement. As part of the conversion, Baker studied eight access points to introduce new or modified at-grade intersections that will connect the surrounding neighborhoods to the new facility.

**Miller Creek King Coal Highway Surface Mine Project Baseline Data Collection, Mingo County, West Virginia.** *Consol, Inc.* Architectural Historian. Responsible for preparing a letter report to the West Virginia State Historic Preservation Office, presenting the results of a preliminary historic resources survey, files search, viewshed analysis, and recommendations for further work. Baker was responsible for conducting baseline data collection and reporting for the approximately 2,300 acre Miller Creek King Coal Highway mountaintop/area/contour mine project including stream/wetland delineations and jurisdictional determination report, benthic and fish surveys and report, native topsoil sampling, mist net and pedestrian mine opening and cave survey, Phase I archeological survey, and historic resources viewshed analysis.

**Montour Church Road Extension Preliminary Engineering and Environmental Assessment, North Fayette Township, Pennsylvania.** *North Fayette Transportation & Business Improvement.* Architectural Historian. Responsible for conducting preliminary historic resources survey and assisted with the preparation of a letter report presenting the results of the archaeological and historic resources site file search and field view. Baker provided Preliminary Engineering and Environmental Clearance

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services for the proposed Montour Church Road Connector in Fayette Township, Allegheny County, Pennsylvania. The Montour Church Road Connector will provide a new access point to U.S. Route 22/30 from the Pointe and from Robinson Towne Center as well as Port Authority's proposed Intermodal Park and Ride Facility.

**On-Call Multi-Discipline Services, Pittsburgh International, and Allegheny County Airports (PIT/AGC), Pittsburgh, Pennsylvania.** *Allegheny County Airport Authority.* Architectural Historian. Responsible for preparing architectural and historical documentation for the recordation of the National Register-eligible, old terminal building. Assisted in the development of educational displays to be constructed in the new terminal of the Pittsburgh International Airport documenting the old terminal building and the history of aviation in Allegheny County. Principal author of Pittsburgh International Airport, Old Terminal Building Recordation Report. Also conducted various historic resources surveys and prepared Determination of Eligibility and Determination of Effects Reports, Memoranda of Agreement, and Section 4(f) Evaluations. Also conducted preliminary pedestrian reconnaissance and prepared overview of future cultural resources investigations necessary to mitigate impacts to National Register eligible historic district. Since 1989, Baker has provided multi-discipline, on-call services to the Allegheny County Airport Authority (ACAA). Baker acted as an extension to ACAA's staff, providing the depth of resources and experience of the entire company when called upon. We provide a full range of services to ACAA on an "On-Call/As-Needed" basis, including architecture, civil, structural, mechanical, electrical and environmental engineering, general engineering administration, construction management, and other areas.

**US-VISIT Program Management, GIS, and Environmental Support Services - Nationwide, Nationwide.** *Department of Homeland Security, US-VISIT.* Architectural Historian. Responsible for assisting with the preparation of Historic Resource Inventory and Determination of Eligibility Reports for all Land Ports of Entry along the Canadian and Mexican borders. Baker is providing program management and related planning, environmental, engineering design, and geospatial services supporting the mission of the Department of Homeland Security (DHS) in modernizing and improving the nation's immigration and border management system and thereby strengthening national security.

**King Coal Highway EIS, Mingo, Wyoming, McDowell, and Mercer Counties, and Williamson and Bluefield, West Virginia.** *West Virginia Department of Transportation, Division of Highways, District 3.* Architectural Historian. Responsible for conducting a historic resources survey. Also responsible for preparing the West Virginia Historic Property Inventory Forms, Determination of Eligibility reports, and Criteria of Effects reports. Baker's current involvement in this proposed 95-mile long, four-lane highway project included: agency scoping; preparation of a Purpose and Need Study; Alternatives Analysis resulting in a reduction of Build Alternatives Report; and analysis of the physical, natural, and socioeconomic environment, for the preparation of the DEIS, FEIS and ROD.

**I-69 Tier 2 Section 5 - EIS and Engineering Services, Bloomington, Indiana.** *Indiana Department of Transportation.* Historian. As Historic Properties Task Manager, responsible for identification and evaluation of aboveground resources. Also responsible for preparing Indiana Historic Sites and Structures Inventory Forms and a Historic Properties Report, an Eligibility Report for review by the Keeper of the National Register, and an Identification of Effects Report. Baker provided Tier 2 environmental and engineering services to the Indiana Department of Transportation for one of six sections of the planned I-69 corridor. Baker's section, Section 5, is located in Monroe and Morgan Counties, Indiana. Services included NEPA Environmental Impact Statement studies and documentation, Engineer's Report, and Public Involvement.



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**Appalachian Corridor H Environmental Impact Statement, Appalachian Highlands Region, Elkins, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Architectural Historian. Responsible for conducting a historic resources survey. Also responsible for preparing a West Virginia Historic Property Inventory Forms, Determination of Eligibility reports, and Criteria of Effects reports. The Appalachian Corridor H is 100 mile proposed four-lane highway intended to provide access from Interstate 81 in Northwestern Virginia through the rugged, mountainous terrain of West Virginia's Appalachian Highlands Region. Baker was responsible for preparing the tiered Corridor H Supplemental EIS study. This consisted of a corridor-level study evaluation (Corridor Selection EIS) to determine the environmental and engineering constraints existing along 24 potential alternative corridors (Tier 1) and a follow-on Alignment Selection FEIS (Tier 2). Baker also provided advanced preliminary engineering on the preferred alignment. Following the 1996 Record of Decision, the WVDOT and FHWA were sued in Federal District and Appeals Courts by a coalition of 13 environmental groups. Baker provided lawsuit support for legal council during that period-project is now under construction and Baker is providing environmental monitoring and engineering services.

**Appalachian Corridor H - Middle South Branch Valley Alternative, Phase I Archaeological Survey, Hardy County, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Architectural Historian. Responsible for assisting with a historic structures survey of the area, the preparation of West Virginia Historic Property Inventory forms, Determinations of Eligibility, and other documentation, which was used to prepare a National Register nomination form for the Middle South Branch Valley Rural Historic District. Baker is conducting a Phase I-II archaeological study of an approximately 9-mile long, 300- to 1000-foot wide new highway corridor located in Hardy County, West Virginia. The project is being completed as part of the on-going cultural resource investigations by Baker for the Appalachian Corridor H project. Field testing of the Middle South Branch Valley corridor began in October of 1998 and has been completed. The corridor encompasses a variety of topographic settings including uplands and stratified alluvial floodplains along the South Branch of the Potomac River and its tributaries. Baker identified over 70 archaeological sites within the project corridor.

**Economic Development, Route 30 Roadway Improvements, Airport Site 10, Route 30, Findlay Township, Pennsylvania.** *Allegheny County Airport Authority.* Architectural Historian. Responsibilities included conducting a pedestrian reconnaissance of the area to determine presence or absence of historic resources. Assisted with the preparation of Environmental Evaluation Form C. For the development of Site 10, Baker was responsible for the preparation of two FAA Environmental Evaluation Form C's, preparation of a Highway Occupancy Permit, preparation of a Traffic Impact Study, and design for widening of Route 30 to accommodate left turn lanes and traffic signals at two new access driveways into the site.

**Environmental Assessment for Hangar 19, Allegheny County Airport (AGC), Pittsburgh, Pennsylvania.** *Allegheny County Airport Authority.* Architectural Historian. Responsible for conducting a field view, prepared written and photographic documentation of Hangar 19, prepared Criteria of Effects Report. Baker completed a documented categorical exclusion using the FAA Form A for the demolition and reconstruction of Hangar 19.

**I-69 SIU 15 - Louisiana (HPC 18 U.S. 171 To I-20), Louisiana.** *Louisiana Department of Transportation and Development (DOTD).* Architectural Historian. Responsible for reviewing cultural resources compliance reports, and Louisiana Historic Resource Survey Forms prepared by subconsultants. Baker conducted a preliminary engineering and environmental study for Interstate 69 Section of Independent Utility 15 for the Louisiana Department of Transportation and Development. The proposed highway will be an interstate facility on new location between US Highway 171 (US 171) near the Town

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of Stonewall in DeSoto Parish, and Interstate Highway 20 (I- 20) near the Town of Haughton in Bossier Parish.

**Historic Structures and Terrestrial Archaeological Site Identification and Analysis Services, Statewide, Maryland.** *Maryland State Highway Administration.* Architectural Historian. Responsible for assisting with various historic resource surveys and the preparation of cultural resources compliance studies. Baker provides consulting services on various task orders to the Office of Planning and Preliminary Engineering. The results of these task orders are then incorporated in environmental evaluations prepared by the SHA or by other consultants. Baker's architectural historians and archaeologists are especially conscious of the importance of sound historic resource evaluations in larger environmental evaluations.

**On-Call Planning and Environmental Services, Pittsburgh International, and Allegheny County Airports (PIT/AGC), Pittsburgh, Pennsylvania.** *Allegheny County Airport Authority.* Architectural Historian. Responsible for conducting various historic resources surveys. Prepared Determination of Eligibility, Determination of Effects, and Criteria of Effects Reports, Memoranda of Agreement, and Section 4(f) Evaluations. Since 2002, Baker has provided On-Call Planning and Environmental Services to the Allegheny County Airport Authority for Pittsburgh International and Allegheny County Airports.

**Petersburg Bridge and McAlevy's Bridges 1 & 2, S.R. 0305 and S.R. 0026, Petersburg and McAlevy's Fort, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 9-0.* Architectural Historian. Responsible for identifying and recording historic resources. Also responsible for preparing Pennsylvania Historic Resource Survey Forms, Principal Author of Historic Resources Survey and Determination of Eligibility Report. Also responsible for providing Context Sensitive Design Solutions for design and replacement structures. Baker performed preliminary and final engineering design and environmental studies for the replacement of Petersburg Bridge, McAlevy's Bridge No. 1 and McAlevy's Bridge No. 2, all of which are located in Huntingdon County, Pennsylvania, for the Pennsylvania Department of Transportation. Built in 1927, the existing two-span, 133-foot (41-meter) steel through girder Petersburg Bridge carries S.R. 0305 over Shavers Creek at Petersburg; built in 1933, the existing three-span, 118-foot (36-meter) reinforced concrete t-beam McAlevy's Bridge No. 1 carries S.R. 0026 over Standing Stone Creek at McAlevy's Fort; and, also built in 1933, the existing two-span, 88-foot (27-meter) reinforced concrete t-beam McAlevy's Bridge No. 2 carries S.R. 0026 over Laurel Run just north of McAlevy's Fort. These three structures are all being replaced with two-span prestressed concrete box beam bridges, with total lengths of 140-, 120-, and 120-feet (43, 37 and 37 meters), respectively.

**S.R. 28, Sections A09 & A10 - DEIS/FEIS, Pittsburgh, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 11-0.* Architectural Historian. Responsible for reviewing cultural resources compliance studies conducted by subconsultants. Also responsible for assisting with the preparation of Draft and Final Environmental Impact Statements. Baker performed a study of improvements for a section of S.R. 28 between Troy Hill Road in the City of Pittsburgh and the Millvale Interchange in the Borough of Millvale. The roadway segment, a four-lane undivided principal arterial with four signalized intersections, had a high daily traffic volume. Adjacent sections of S.R. 28 were previously upgraded to limited access facilities. Draft and Final Environmental Impact Statements were prepared. Detailed engineering and environmental analyses are currently being performed.

**S.R. 0218, Section A10 - Highway/Railroad Grade Separation Project, Waynesburg, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 12-0.* Architectural Historian. Responsible for conducting a historic resources survey. Also responsible for preparing a Determination

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of Eligibility report and Criteria of Effects report. Baker was selected to perform preliminary engineering and prepared final design documents for a grade separation structure spanning Norfolk Southern Railroad tracks, South Fork Ten Mile Creek, and local streets of Waynesburg. The designed structure was approximately 595 feet in length and consisted of a 7-span P/S I-Beam superstructure on curved alignment with a radius of 3,820 feet. S.R. 0218 was realignment for 1,615 feet to accommodate two 12-foot lanes, 2'-0" curb gutters, and a 5-foot sidewalk. Preliminary engineering involved environmental, H&H, traffic control, geotechnical, TS&L and drainage studies, in addition to required surveying, utilities, and right-of-way investigations.

**Shawnee Parkway, Southern Counties, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Architectural Historian. Responsible for conducting a historic resources survey. Also responsible for preparing the West Virginia Property Inventory Forms and Determination of Eligibility report. Baker conducted a Purpose and Needs Study for the Shawnee Highway, a proposed two-lane roadway spanning approximately 20 miles from Ashland to Ghent, across four southern West Virginia counties (McDowell, Mercer, Raleigh, and Wyoming).

**Washington Crossing Gateway Park and Streetscape Project, Washington Crossing, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 6-0.* Architectural Historian. Responsible for preparing Pennsylvania Historic Resource Survey Forms, assessed project effects to identified historic resources, Author of Determination of Effect Report. This project involved the design of the Washington Crossing Gateway Park: Village Streetscape and Pedestrian/Bicycle Linkages within the village of Washington Crossing. As part of this project, series of pedestrian and shared use paths were constructed. The project also included roadway improvements of reconstructing and resurfacing General Washington Memorial Boulevard. All work was on public lands such as DCNR and PHMC properties or within the PENNDOT right-of-way along state highways. The existing horizontal and vertical geometry of General Washington Memorial Boulevard was not changed by this project.

**Allegheny Power Supply Lime Kiln McCain, Maryland.** *Allegheny Power System.* Historian. Prepared a historic period culture history. Also co-authored a Phase I Cultural Resources Reconnaissance Report. Baker conducted a Phase I cultural resources investigation of the proposed Lime Kiln-McCain 138 kV Line Relocation Study Area in Frederick County, Maryland. The investigation, combining pedestrian reconnaissance and shovel test probes, identified no cultural resources within, or visible from, the bounded Study Area. Based on the negative results of the investigation, no additional cultural resource efforts were recommended for the Lime Kiln-McCain 138 kV Line Relocation Study Area.

**Pittsburgh Stage II Light Rail Transit Corridor Study, Pittsburgh, Pennsylvania.** *Port Authority of Allegheny County.* Architectural Historian. Responsible for preparing a historic context of former commuter railroad and interurban line. Providing innovative transportation services to meet citizens' changing mobility needs continues to be one of Baker's priorities. Baker provided subconsultant services to LS Transit Systems, Inc. for the Port Authority of Allegheny County's Light Rail Transit (LRT) Corridor Study, an alternatives analysis for upgrading an existing 12-mile trolley system through Pittsburgh's South Hills area. Baker's services included development of preliminary alternative physical designs, structural and geotechnical analysis, capital cost estimates, environmental impact analysis and completion of an Environmental Assessment Report.

**S.R. 0079, Section A23, Interstate 79 Missing Ramps, Collier and Robinson Townships, Pittsburgh, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 11-0.* Architectural Historian. Responsible for conducting a historic resources survey, prepared Pennsylvania Historic Resources Survey Forms for selected resources, and prepared National Register eligibility assessments.

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Project consisted of an addition of two direct connection ramps to an existing interchange, plus widening and realignment of more than a mile of limited access highway. Estimated construction cost \$60 million.

**Runway 5-23 Safety Area Improvements, Akron-Canton Airport (CAK), Akron, Ohio.** *Akron-Canton Regional Airport Authority.* Architectural Historian. Responsible for conducting a pedestrian reconnaissance of the area to determine presence or absence of historic resources. Assisted with the preparation of Environmental Evaluation Form. Baker is providing design and construction phase services for improvements to the Runway 5-23 Safety Area. Baker's responsibilities include surveying; aerial mapping; geotechnical investigation; pavement design; geometry layout; grading; drainage; airfield lighting, electrical, signing layout; Instrument Landing System (ILS) benefit-cost analysis; ILS installation; NAVAID design; Airport Layout Plan update; construction drawings and specifications preparation; and construction management services throughout construction.

**Phase I/II Archaeological Survey of the Thomas Cistern Site, Beaver County, Pennsylvania.** *Beaver County Transit Authority.* Architectural Historian. Responsible for assisting with archaeological investigation and preparing report text. Baker conducted a Phase I/II archaeological survey and assessment of a partial brick cistern located in Rochester, Pennsylvania. The Beaver County Transit Authority (BCTA) initiated the study during improvements to an existing parking lot once the historic structure was unearthed.

**Phase I & II Cultural Resources Investigations, Appalachian Corridor H Highway (Mainline), Hardy, Grant, Tucker, and Randolph Counties, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Architectural Historian. Responsible for conducting a historic resources survey. Also responsible for preparing the West Virginia Historic Property Inventory Forms, Determination of Eligibility reports, and Criteria of Effects reports. Baker has performed cultural resources investigations on approximately 161 km (100 mi) of highway right-of-way for the Appalachian Corridor H Project, located in east-central West Virginia. The project extends from Elkins, West Virginia eastward to the West Virginia/Virginia state line, bisecting portions of Randolph, Tucker, Grant, and Hardy counties, and traversing portions of both the Appalachian plateaus and the Ridge and Valley physiographic provinces.

**Planning, Engineering, Architectural, and Project Management Services for Maglev, Inc., Allegheny and Westmoreland Counties, Pennsylvania.** *Port Authority of Allegheny County.* Architectural Historian. Responsible for providing early coordination activities for historic resources and participated in public meetings. This project involved a preliminary engineering study of four alternative alignments for a high-speed magnetic levitation (MAGLEV) demonstration system. The 54-mile demonstration project will connect the Pittsburgh International Airport, downtown Pittsburgh, and two suburban station locations east of the city. Baker's role included developing preliminary design for the guideway and stations, developing cost estimates, preparing an environmental overview, and managing the ridership estimate. The 54-mile system will be the first link in an envisioned regional and national system connecting the midwest to the east coast.

**Route 49 over the Cohansey River Bridge Replacement Project, Bridgeton, New Jersey.** *New Jersey DOT.* Architectural Historian. Responsible for overseeing historic resources survey and preparation of cultural resources compliance studies. Baker was selected by NJDOT to perform preliminary and final design services for the replacement of the Route 49 Bridge over the Cohansey River. The proposed improvements were needed to mitigate a high accident rate on Route 49, improve traffic circulation along the corridor and at the four existing signalized intersections, and to eliminate substandard geometric deficiencies.

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**Route 9 Cultural Resources and Section 4(f) Analysis/Finding, Berkeley & Jefferson Counties, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Project Manager. As an Architectural Historian, responsible for identifying and recording historic resources. Co-author of Cultural Resources Inventory with Determinations of Eligibility Report and of the three-volume Addendum Report. Principal author of Criteria of Effects Evaluation, and Border/Bower Road Alternatives Architectural and Historical Documentation, Minor Hurst National Register Boundary Resolution, and Barry Johnson Alternatives Architectural and Historical Documentation Reports. Baker's Cultural Resources Section was involved in multiple aspects of this project, including evaluations of cultural resource potential (Phase Ia and Phase I investigative efforts), Phase Ib Archaeological Surveys and Phase II Architectural and Archaeological Studies. Research and testing resulted in the identification of 27 archaeological sites, with seven of those recommended for further study. Of the sites considered for more work, five are prehistoric, two are historic, and one is multicomponent.

**Route 52 Causeway, Somers Point and Ocean City, New Jersey.** *New Jersey DOT.* Architectural Historian. Responsible for editing written and photographic documentation for HAER recordation of World War Memorial Bridge and comparative bridge study. The Route 52 Replacement project is approximately 2.8 miles (4.5 km) long from Route 9, in Somers Point, Atlantic County, to Bay Avenue in Ocean City, Cape May County. This project entailed the replacement of the causeway over Great Egg Harbor Bay, including four concrete bridges and roadways crossing Rainbow Islands and Garretts Island with a single fixed structure extending from Somers Point to Ocean City. The project also included the replacement of the Somers Point Circle with a signalized intersection and the widening of Route 52 from the existing 2 lanes to 4 lanes going through the business district.

**Appalachian Corridor D - Environmental Impact Statement, US 50 Belpre, OH to US 50/I-77, Parkersburg, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Architectural Historian. Responsible for conducting a preliminary historic resources survey. Also responsible for assisting with various cultural resources compliance reports. The West Virginia Department of Transportation, Division of Highways (WVDOH) in conjunction with the Federal Highway Administration (FHWA), proposed to complete Appalachian Highway Corridor D from US 50 in Belpre, Ohio, to the vicinity of the US 50/ Interstate 77 (I-77) Interchange east of Parkersburg, West Virginia. The study area includes portions of Wood County, West Virginia; and Washington County, Ohio. The completed project will complete the "missing link" of Corridor D between West Virginia and Ohio and will require spanning the Ohio River.

**1993-1996 Regional Design Services Agreement, HYS DOT Region I, Albany, New York, Albany Region, New York.** *New York State Department of Transportation.* Architectural Historian. Responsible for assisting with the preparation of Cultural Resources compliance studies. Baker provided "Call-In" Engineering Services for various transportation projects including civil, structural, highway, surveying and environmental work.

**Airport (Southern) Expressway Project Management Services, Section 14, 15, 16, Allegheny County, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 11.* Architectural Historian. Responsible for conducting review of Cultural Resources Studies. Baker provided construction management and preliminary design services for the construction of an eight-mile long, four-to six-lane expressway providing direct access between Pittsburgh and the Pittsburgh International Airport. The project, designed by five final design consultants and constructed in six sections by four different contractors, includes five interchanges, extensive wetlands mitigation and relocation of an abandoned landfill. From its inception, the project was fast-tracked. Preliminary

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schedules were developed to determine contract durations and contractor schedules were closely reviewed and monitored. An intergovernmental executive management committee expedited design decisions and shortened the permitting process. For construction, tight schedules utilizing incentive/disincentive clauses have assured on-time completion.

**Pennsylvania Turnpike Commission, Consulting Engineer, Statewide Pennsylvania.** *Pennsylvania Turnpike Commission.* Architectural Historian. Responsible for conducting a review of the Cultural Resources Studies. Baker has served as the Pennsylvania Turnpike Commission's (PTC's) Consulting Engineer continuously since 1956, performing annual inspections of and reports for all facilities and providing recommendations for their maintenance and repair as outlined in the Trust Indenture which secures revenue bonds for the system. Baker reviews the PTC's capital budget, provides recommendations, and performs quality assurance and review during the design and construction of capital projects. Baker has also managed the contracts of other design consultants retained for specific projects.

**Aberdeen Proving Ground, Facility History Documentation, Aberdeen, Maryland.** *Directorate of Installation Operations, Aberdeen Proving Ground/U.S. Army Corps of Engineers, Baltimore District.* Architectural Historian. Performed historical research, visual inspections, and written documentation for the environmental clearance of buildings proposed for demolition. Baker was awarded this roadway project to perform final design services for the reconstruction of 3 miles of this 4-lane arterial. The project will add a continuous center turn lane, full width shoulders, and intersection improvements with major cross roads. The project includes significant ROW acquisitions, traffic signal work, utility relocations, and complete drainage system. (2003-2004)

**Sheraden Park Sewer Remediation Project, Pittsburgh, Pennsylvania.** *Air National Guard.* Architectural Historian. Identified and recorded historic resources. (2003)

**South Pemberton Road (CR 530), Burlington County, New Jersey** *New Jersey Department of Transportation and the Delaware Valley Regional Planning Commission.* Architectural Historian. Performed cultural resource investigations for a 2.7-mile long segment of South Pemberton Road (CR 530) in Southampton Township, Pemberton Township, and Pemberton Borough. Co-author of Phase IA Archaeological Reconnaissance and Phase I Architectural Survey Report.

**Implementation of Preservation Zoning, Wheeling, West Virginia.** *Wheeling Historic Landmarks Commission.* Architectural Historian. Developed rehabilitation guidelines for two historic districts.

**The Mall at Robinson Peripheral Development, Allegheny County, Pennsylvania.** *Metro Property Developers.* Architectural Historian. Responsible for assisting with the preparation of a Phase I Cultural Resources Report. Baker has been actively involved with a wide variety of engineering and site design tasks on this ever-expanding, large commercial development (approximately 700 acres) surrounding Robinson Towne Center.

**Elkins Coal Reclamation- WVDEP.** *West Virginia Department of Environmental Protection.* Architectural Historian. Responsible for assisting with the field study to produce HABS-level historic building recordation of mining complex consisting of industrial buildings, mine entrances, coke ovens, and rail beds.

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**Beaver County Bridges (Group 10), Beaver County Commissioners.** Architectural Historian. Responsible for conducting a historic resources survey and determination of eligibility for selected bridges scheduled for replacement.

**Airport (Southern) Expressway Project Management Services, Allegheny County, Pennsylvania.** *Pennsylvania Department of Transportation (District 11-0).* Architectural Historian. Responsible for providing a review of the Cultural Resources studies. Baker provided construction management and preliminary design services for the construction of an eight-mile long, four to six lane expressway providing direct access between Pittsburgh and the Pittsburgh International Airport. The project, designed by five final design consultants and constructed in six sections by four different contractors, includes five interchanges, extensive wetlands mitigation and the relocation of an abandoned landfill.

**County Road 546, Philadelphia, Pennsylvania.** *Delaware Valley Regional Planning Committee.* Architectural Historian. Responsible for assisting with the preparation of cultural resources compliance studies.

**Delaware Valley Regional Planning Commission, Philadelphia, Pennsylvania.** *Delaware Valley Regional Planning Commission.* Architectural Historian. Responsible for assisting with the preparation of cultural resources compliance studies.

**On-Call Engineering and Architectural Services, Wheeling, West Virginia.** *Ohio County Commission.* Architectural Historian. Responsible for conducting historic resources survey, prepared West Virginia Historic Property Inventory Form and identified resource, and assisted with the preparation of a letter report to clear the area of further cultural resources studies. Baker was responsible for a number of diverse projects under this on-call contract including: Runway 16-34 Rehabilitation; Apron Rehabilitation; Runway 3-21 and Taxiways A and T Rehabilitation; Taxiways B, C and D, Crack Sealing and Seal Coat; Runway 34 Turnaround Taxiway; Aircraft Rescue and Fire Fighting (ARFF) and Snow Removal Equipment (SRE) Storage Building Improvements; Runway 3-21 Safety Area Improvement Feasibility Study; Security Fencing; Airport Access Roads; Runway 16-34 and Runway 3-21 NAVAIDS; and T-Hangar Taxiway Rehabilitation.

**INS Service Center, Washington, D.C.** *U.S. Department of Justice - INS.* Architectural Historian. Responsible for developing methodology for the survey of all Land Ports of Entry along the Canadian and Mexican Borders.

**I-78 Exit 15 Cult Res. & Wetla, Trenton, New Jersey.** *New Jersey DOT.* Architectural Historian. Responsible for overseeing historic resources survey and preparation of cultural resources compliance studies.

**Cultural Resources Study and Wetlands Investigation-Bennet's Crossing, Trenton, New Jersey.** *New Jersey DOT.* Architectural Historian. Responsible for overseeing historic resources survey and preparation of cultural resources compliance studies.

**S.R. 0018 Study, Harrisburg, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), Central Office.* Architectural Historian. Responsible for conducting historic resources survey, prepared Pennsylvania Historic Resource Survey Forms, and prepared photographic documentation of Geneva College Historic District.

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**Allegheny Power System Hydro-Electric.** *Allegheny Power System.* Architectural Historian. Investigated and evaluated four circa 1,925 hydroelectric stations, and principal author of a Cultural Resource Management Plan.

**Luzerne County Bridges #26304 and 26306.** **Reilly Associates.** Architectural Historian. Responsible for preparing Pennsylvania Historic Resources Survey form for resources within project study area. Also responsible for assisting with context sensitive design of a new bridge to be constructed within an existing historic district.

**S.R. 0051, Section A10.** *Pennsylvania Department of Transportation, Central Office.* Task Manager. Performed cultural resource investigations. Also co-authored the Determination of Eligibility and Criteria of Effects reports.

#### **Non-Baker Project Experience**

**Allegheny Historic Preservation Society, Pittsburgh, Pennsylvania.** Assisted in the restoration of Calvary United Methodist Church, an elaborate 1895 Gothic structure located in the Allegheny West neighborhood of Pittsburgh's North Side. Duties included conducting research, documenting structural and cosmetic changes made to the building, restoration/construction project management, new materials selection, historic fabric conservation, providing guided tours, and performing paint analysis to determine the building's original color schemes.

**Mount Washington Community Development Corporation, Pittsburgh, Pennsylvania.** Prepared and maintained computer databases for membership, vacant and deteriorated housing recordation, and a historic properties inventory; provide storefront rehabilitation proposals for buildings in the commercial district; and prepare marketing and public relations materials.

**South Side Local Development Company, Pittsburgh, Pennsylvania.** Served as Director of Economic Development/Main Street Program Manager. Duties for this community-based development and preservation organization included marketing city economic development programs, business recruitment and retention activities; historic preservation planning, grant writing and administration; grassroots fund raising; and providing technical support/assistance to the design and economic development committees.

**New Martinsville Main Street, Inc., New Martinsville, West Virginia.** As director, responsible for overseeing implementation of the Main Street Program, a commercial revitalization strategy for traditional business districts which utilizes historic preservation as an integral foundation for economic development. It is a project of the National Trust for Historic Preservation. Duties included managing all administrative aspects, volunteer coordination and management, conducting design review, administering a low interest loan program and a facade grant program, and developing and conducting public awareness and educational efforts.

**Center for Historic Preservation, Middle Tennessee State University, Murfreesboro, Tennessee.** *Middle Tennessee State.* Research Assistant. Responsible for the daily use of personal computers and software and for instructing students in the use of the equipment. Assisted in developing a computerized database for a 10,000-slide/photograph collection organized by architectural style.

**Clarksburg Development Corporation, Clarksburg, West Virginia.** Intern. Completed internship under the direction of the project manager of Clarksburg's Main Street Program. Established a historic photograph collection of the downtown area to assist in storefront rehabilitations. Assisted a local civic



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organization in developing a preservation plan for a historic site. Assisted director in developing an educational project for the Harrison County Board of Education. Participated in meetings to establish a county landmarks commission and a low interest loan program.

**Main Street West Virginia, Charleston, West Virginia.** *State of West Virginia Department of Local Development.* Historian. Prepared design guidelines for new Main Street cities in the state.

**Historic Structure Report, Wheeler Plantation, Decatur, Alabama.** *Alabama Preservation Alliance.* Team Member. Produced a comprehensive 300-page report focusing on the present condition and future preservation needs of the 14,000 acres, three houses, and outbuildings which comprise the Wheeler Plantation. Report included a family history, structural analysis, and recommendations for future use. (1988)

**Proposal for Stabilization and Reuse, Brown's Mill, Lascassas, Tennessee.** *City of Murfreesboro.* Student. As part of a student team, compiled a report which analyzed this post-Civil War grist mill. Researched history, determined structural stability, and provided recommendations for future use. Report submitted to the city of Murfreesboro, owner of the property. (1988)

**Grant Writing Project, Sumner County Chapter, Gallatin, Tennessee.** *Association for the Preservation of Tennessee Antiquities.* Team Member. A team project which involved preparation of a successful grant submitted to the Institute of Museum Services to undertake an environmental and conservation survey at Cragfont, an eighteenth century mansion and historic site. (1988)

**Historic Structure Report, Clover Bottom Mansion, Nashville, Tennessee.** *Tennessee Department of Finance and Administration.* Team Member. Determined adaptive reuses for this nineteenth century antebellum plantation home and its dependencies. Documented the history of the property and the present condition of the buildings. (1988)

**Pride in Place Project, Gallatin, Tennessee.** *Middle Tennessee State University.* Team Member. Worked with a North Carolina based consultant team to assess the community's cultural amenities. Assisted in conducting citizen interviews and evaluating information. Prepared illustrations for the report. (1988)

**National Register Nomination, Salem College Administration Building, Salem, West Virginia.** *Salem College.* Consultant. Conducted research and prepared a National Register Nomination for this early twentieth century Collegiate Gothic building. Listed on the National Register of Historic Places on March 30, 1989. (1987)

**Documentary Survey, Spring Hill, Tennessee.** *Middle Tennessee State University.* Team Member. Participated in a Level 3 survey to document the existing landscape and built environment of this rapidly changing town as a result of the newly established GM Saturn automobile manufacturing plant within the community. (1987)

**Architectural Survey, Murfreesboro, Tennessee.** *Middle Tennessee State University.* Team Member. Conducted research and prepared a Level 1 survey of a two block residential area. Included deed research, photography, and architectural descriptions. Compiled for future publication of Murfreesboro's architectural history. (1987)

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**Educational Project, Hopkinsville, Kentucky.** *Middle Tennessee State University.* Team Member. Participated in a group project to design an architectural walking tour and educational activities for grades K12, for the community's Main Street Program. (1987)

**Continuing Education/Training**

"Analysis and Preservation of Historic Bridges," American Society of Civil Engineers, Pittsburgh, Pennsylvania, November 1998

**Publications**

*I-69 Evansville to Indianapolis, Tier 2 Studies, Historic Properties Report, Section 5, SR 37 South of Bloomington to SR 39.* Federal Highway Administration and Indiana Department of Transportation. Co-Author.

*Criteria of Effect Report for the Proposed Hangar Development Project, Allegheny County Airport, Borough of West Mifflin, Allegheny County, Pennsylvania.* Allegheny County Airport Authority. Principal Author.

*Section 4(f) Evaluation for the A.C. Hangar, General Aviation Terminal, Terminal Area Project, Connellsville Airport, Dunbar Township, Fayette County, Pennsylvania.* Fayette County Airport Authority. Principal Author.

*Petersburg Bridge Replacement Project, Historic Resources Survey and Determination of Eligibility Report, SR 0305 (003), Petersburg Borough and Logan Township, Huntingdon County, Pennsylvania.* Pennsylvania Department of Transportation, Engineering District 9.0. Principal Author.

*James Rumsey Memorial Bridge Replacement Project, Shepherdstown, West Virginia and Bridgeport, Maryland, Determination of Eligibility Report.* West Virginia Department of Transportation, Division of Highways. Co-Author.

*S.R. 3005, Section B00, Hickory Street Bridge Replacement Project, Warren County, Pennsylvania, Determination of Eligibility Report.* Pennsylvania Department of Transportation, District 1-0. Principal Author.

*Harrisburg International Airport, Dauphin County, Pennsylvania, Criteria of Effects Report.* Pennsylvania Department of Transportation, District 8-0. Principal Author.

*South Pemberton Road (CR 530), Burlington County, New Jersey, Phase IA Archaeological Reconnaissance and Phase I Architectural Survey Report.* New Jersey Department of Transportation and the Delaware Valley Regional Planning Commission. Co-Author.

*Pittsburgh International Airport, Allegheny County, Pennsylvania, Old Terminal Building Recordation Report.* Allegheny County Airport Authority. Principal Author.

*Robinson Town Centre Phase II Development, Robinson Township, Pennsylvania, Determination of Eligibility Report.* Robinson Mall Developers and Robinson Peripheral Developers. Co-Author.

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*Shawnee Highway, Raleigh, Mercer, Wyoming, and McDowell Counties, West Virginia, Determination of Eligibility Report. West Virginia Department of Transportation, Division of Highways. Principal Author.*

*New River Parkway, Summers and Raleigh Counties, West Virginia, Cultural Resources Draft Technical Report and Criteria of Effects Report. West Virginia Department of Transportation, Division of Highways. Principal Author.*

*West Virginia Route 9 Upgrade, Berkeley and Jefferson Counties, West Virginia, Cultural Resources Inventory with Determinations of Eligibility Report, Addendum Report, Criteria of Effects Evaluation Report, Border/Bower Road Alternatives Architectural and Historical Documentation, Minor Hurst National Register Boundary Resolution Report, and Barry Johnson Alternatives Architectural and Historical Documentation Report. West Virginia Department of Transportation, Division of Highways. Principal Author.*

*31st Street Bridge, Pittsburgh, Pennsylvania, Determination of Eligibility Report, Criteria of Effects Report. Pennsylvania Department of Transportation, District 11-0. Principal Author*

*Overbrook Trolley Line, Allegheny County, Pennsylvania, Determination of Eligibility Report. Port Authority of Allegheny County. Principal Author.*

*Appalachian Corridor H, Randolph, Tucker, Grant, and Hardy Counties, West Virginia, Determination of Eligibility Reports. West Virginia Department of Transportation, Division of Highways. Co-Author.*

*S.R. 0051, Section A10 Intersection Improvement, Allegheny County, Pennsylvania, Determination of Eligibility Report, Criteria of Effects Report. Pennsylvania Department of Transportation, District 11-0. Task Manager. Co-Author.*

*S.R. 0218, Section A10, Railway Crossing and Bridge Replacement, Greene County, Pennsylvania, Determination of Eligibility Report, Criteria of Effects Report. Pennsylvania Department of Transportation, District 12-0. Principal Author.*

*FERC Relicensing of the Luray/Newport, Shenandoah, and Warren Hydroelectric Stations, Warren and Page Counties, Virginia, Cultural Resources Management Plan. The Potomac Edison Company. Co-Author.*

*Pittsburgh Stage II Light Rail Transit Corridor Planning Analysis/EA, Allegheny County, Pennsylvania, Determination of Eligibility Report. LS Transit Systems. Principal Author.*

*Proposed Jefferson No. 1 Loop 138 kV Transmission Line Right-of-Way, Frederick County, Maryland, Phase I Cultural Resources Reconnaissance Report. Allegheny Power Service Corporation. Co-Author.*

*Lime Kiln McCain 138 kV Line Relocation, Frederick County, Maryland, Phase I Cultural Resources Reconnaissance Report. Allegheny Power Service Corporation. Co-Author.*

*FEIS, Outer Connector - Northwest Quadrant, Spotsylvania and Stafford Counties and the City of Fredericksburg, Virginia. Virginia Department of Transportation. Co-Author.*

*Sheraden Park Sewer Remediation Project, Pittsburgh, Pennsylvania. United States Army Corps of Engineers (USACE). Co-Author.*

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*Historic Resource Survey and Determination of Eligibility Report, General Aviation Terminal, Terminal Area Design, A.C. Hangar/Taylorcraft Building, Connellsville Airport, Dunbar Township, Fayette County, Pennsylvania.* Fayette County Airport Authority. Principal Author.

*Criteria of Effect Report, General Aviation Terminal, Terminal Area Design, A.C. Hangar/Taylorcraft Building, Connellsville Airport, Dunbar Township, Fayette County, Pennsylvania.* Fayette County Airport Authority. Principal Author.

*Phase I Archeological Survey and Historic Resource Survey and Determination of Eligibility, Bizzack Fill Project, Wood County, West Virginia.* Bizzack, Inc., Lexington, Kentucky. Co-Author.

### **Professional Affiliations**

Allegheny City Society  
National Trust for Historic Preservation  
Pittsburgh History and Landmarks Foundation

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# Denise L. Grantz Bastianini

## *Cultural Resources Specialist*

### **General Qualifications**

Ms. Grantz Bastianini is an archaeologist with an extensive background in both prehistoric and historic sites archaeology. She also has considerable experience in historic research as well as historic structures survey and determination of National Register of Historic Places eligibility and effect. During the last 22+ years, she served as principal investigator, task manager, or field supervisor on numerous cultural resource compliance projects in the Middle Atlantic states. She has also directed and performed two, year-long, historic resource surveys—the first, a county-wide historic resource survey and the second, a thematic survey pertaining to historic transportation resources located along the National Road in Pennsylvania. From 1992-1995, she served as editor for the *Pennsylvania Archaeologist*, the journal of the Society for Pennsylvania Archaeology, Inc.

**Years with Baker:** 16

**Years with Other Firms:** 15

#### **Education**

Doctoral Studies, Anthropology,  
University of Pittsburgh

M.A., 1994, Anthropology, University  
of Pittsburgh

M.A., 1985, Social Sciences/Cultural  
Resource Management, California  
University of Pennsylvania

B.A., 1974, Anthropology, California  
State College

### **Experience**

**Route 23a Over Kiskatom River, Catskill, New York.** *New York State Department of Transportation, Region 1.* Task Manager. Coordinated with the client and landowners for initiation of Phase II archaeological investigations at the Nineteenth-Century Sunny Slope House Complex and completion of the previously initiated Phase I survey. Authored portions of Phase II letter report. Baker provided all Preliminary and Final Design Services (Phases I-VI) for the rehabilitation/reconstruction of Route 23A over the Kiskatom Brook. The project included highway and bridge design for the replacement of the bridge which carries Route 23A over Kiskatom Brook and a box culvert which carries Route 23A over an unnamed stream. Route 23A is a rural two-lane road, with residential development.

**Human Services Walkway, New Jersey.** *Burlington County.* Archaeologist. Conducted Phase IA historic background research as well as a site files search at the State Historic Preservation Office. Performed reconnaissance-level archaeological and historic resources study. Prepared a historic property inventory form and authored portions of Phase IA cultural resource report. Baker performed preliminary and final engineering services for a new 0.8 mile walkway that connected the County Human Services Office and the County Health Care Office.

**I-79 from Anmoore to Saltwell Road, Bridgeport, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Historian. Performed Phase 1a cultural resources files and literature review and authored portion of Phase Ia report. This project provided for the study of I-79 between Anmoore and Saltwell to identify improvements necessary to meet 5,10, 15 and 20 year traffic demands.

**Millcreek Mall Wetland Mitigation, Erie, Pennsylvania.** *Cafaro Company, The.* Archaeologist. Responsible for overseeing Phase I historic archaeological site delineation and performed Phase I historic

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artifact analysis. For Phase I of this project, Baker served as project manager and designer for a 12-acre wetland mitigation site in Erie County, Pennsylvania. The project included agency coordination, detailed hydraulic and hydrologic studies, preparation of conceptual design for agency approval, construction drawings, and post-construction review. Phase II involved planning, design and permitting of an additional 5-acre replacement wetland project.

**Lawrenceville Access Road, Pittsburgh, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 11-0.* Historian. Responsible for conducting historic research toward preparation of a cultural resources constraints map for preliminary alternatives analysis. Baker conducted a Needs Analysis, Congestion Management System Analysis and Design Alternative Studies and prepared the Environmental Impact Statement (EIS) for a proposed five-mile industrial access facility. Alternatives developed improved truck access to industrial sites without providing single occupancy vehicle commuters the same access. Significant project issues included alleviation of traffic congestion, connection to four major crossings of the Allegheny River, geotechnical concerns (unstable soils and landslide-prone areas), and relocation of an active rail line.

**Phase I Archaeological Evaluation of the Proposed Buffalo Foul Weather Moorings Project Area, Buffalo, New York.** *U.S. Coast Guard.* Editor. Responsible for editing the Phase I report. Baker's Cultural Resources Section advised the United States Coast Guard on cultural resources compliance issues associated with the proposed consolidation of the United States Coast Guard Group Buffalo operations located on Lighthouse Point in Buffalo, New York from their current location near the landmark 1833 Buffalo Main Light eastward toward what is currently utilized as a combination of playing fields and a City of Buffalo-leased picnic pavilion/park area.

**Archaeological and Historic Resource Survey of the Bizzack Fill Areas, Parkersburg, West Virginia.** *Bizzack, Inc.* Principal Investigator. Responsible for directing Phase I archaeological survey and authored portions of Phase I report. Also performed work as an Archaeologist. Baker performed a Phase I archaeological survey and historic resources survey and eligibility assessment of two noncontiguous, upland drainages that were selected for permanent dumping of residual soils resulting from construction of the Appalachian Corridor D highway system. The two proposed areas collectively spanned roughly 24 ha (60 ac). The work was conducted for Bizzack, Inc., Lexington, Kentucky. As part of the Phase I archaeological survey, two historic archaeological sites and a historic isolated find site were identified. The historic resources survey identified two unrecorded historic resources over 50 years of age.

**Environmental Scope Task Order Agreement, Statewide, New Jersey.** *New Jersey DOT.* Archaeologist. Conducted a files search which included review of the cultural resource files maintained at the State Historic Preservation Office and the New Jersey Bureau of Archaeology, as well as limited library research. Performed windshield survey/pedestrian reconnaissance. Prepared a constraints mapping of cultural resources in the Area of Potential Effects, based on the results of the background research and pedestrian reconnaissance. Also performed project coordination with local government agencies and historical societies. Authored cultural resource scoping report. Baker provided environmental Screening Services to the New Jersey Department of Transportation on a task order basis for projects in the Concept Development a Feasibility Assessment Phases. The Environmental Screenings involved an Ecological Assessments of soils, waterbodies, wetlands, floodplains, vegetation, and wildlife; socio-economic studies, land use & zoning, Section 4(f) investigations, Environmental Justice Analysis; Hazardous Materials Screening; and Cultural Resources Investigation for the presence of architectural and/or archaeological resources within the project area.

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**USCG Planning Proposal for Station Wachapreague, VA, Wachapreague, Virginia.** *U.S. Coast Guard, CEU Cleveland.* Historian. Performed background research and conducted a windshield survey of the project area to field check the status of the previously recorded and/or unevaluated resources greater than 50 years of age and to generally assess the area for possible National Register of Historic Places-eligible historic districts, buildings, structures, sites, or objects. The survey was undertaken as a planning tool for determining a potential location (or locations) for a newly proposed Coast Guard facility. Also performed work as an Archaeologist. A planning proposal was prepared for USCG Station Wachapreague to assist in the transition from the Independent Maritime Response Vessel to small and medium response boats operating as a full station under Group Eastern Shore.

**Southern Beltway, PA 60 to U.S. 22, Design Management Services, Allegheny and, Washington Counties, Pennsylvania.** *Pennsylvania Turnpike Commission.* Architectural Historian. Responsible for technical review of historic resource and historic archaeological documents, scopes-of-work, and budgets, as well as mitigation plans and Programmatic Agreements prepared by the PTC's various project consultants; also, participates in regular project status meetings with the client and their consultants and provides technical advice. Also performed work as an Archaeologist. Baker was Pennsylvania Turnpike's Design Manager for the Southern Beltway project, a 35-mile limited access toll road from Pittsburgh International Airport at PA 60 to the Mon/Fayette Expressway. Six miles of this beltway is complete and open to traffic, from PA 60 to U.S. 22.

**NYSDOT Region 1 Term Agreement, Palenville, New York.** *New York State Department of Transportation, Region 1.* Task Manager. Coordinated with the client and landowners for initiation of Phase II archaeological investigations at the Nineteenth-Century Sunny Slope House Complex and completion of the previously initiated Phase I survey. Authored portions of Phase II letter report. Under this term agreement, Baker provided Preliminary & Final design on three separate assignments. Assignment 1 included rehabilitation/reconstruction of 1.6 km of Route 23A, beginning 0.3 km east of Intermann's Bridge and extending eastward to 0.3 km east of the intersection of Route 32A in the Hamlet of Palenville. The project also includes the reconstruction and realignment of the intersection of Route 23A with Route 32A. Assignment 2 included highway and bridge design for the replacement of the bridge which carries Route 23A over Kiskaton Brook and a box culvert which carries Route 23A over an unnamed stream. Assignment 3 included reconstruction of 2.1 km of Everett Road, beginning and extending eastward to the intersection with Albany-Shaker Road. The project also includes the reconstruction and realignment of intersections, road widening, addition of turning and travel lanes, drainage improvements and accommodations for pedestrians and bicycles.

**Lower Georges Creek Watershed, Historical and Archaeological Studies, Fayette County, Pennsylvania.** *U.S. Army Corps of Engineers, Pittsburgh District.* Archaeologist. Responsible for directing pedestrian reconnaissance and authoring portions of the literature review and reconnaissance report. Baker conducted a full range of cultural resources investigations as part of a Section 106 compliance review. The investigations were performed in conjunction with the U.S. Army Corps of Engineers construction of the Grays Landing Lock and Dam on the Monongahela River. Dam construction will raise the normal high pool level in Georges Creek, a tributary of the Monongahela River, possibly affecting archaeological and historic resources on both sides of the creek.

**Cardinal States - Methane Gas Collection/Gathering System, Buchanan County, VA, Pike County, KY, and Mingo County, West Virginia.** *Conoco, Inc.* Archaeologist. Performed Phase I archaeological investigations and authored portions of the Phase I archaeological report. Baker was responsible for developing a methane gas collection and gathering pipeline system. The network consisted of 54 miles of 12-inch and 16-inch diameter steel pipeline running through rugged and remote terrain. The project

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involved gathering and the delivery of coalbed methane to a major distribution network. Baker provided all engineering services necessary to place the field into operation.

**Crittenden Road/Route 17/Shoulders Hill Road Water Transmission Main, Suffolk, Virginia.** *Suffolk, VA (City of) (DPU).* Field Supervisor. Supervised Phase I archaeological survey and authored portions of Phase I report. Baker was responsible for providing preliminary design, final design and construction services for the water transmission extensions and necessary facility upgrades to serve these corridors in northern Suffolk. The project included approximately 66,000 LF of 20- to 36-inch diameter water transmission line and approximately 7,300 LF of 16-inch water transmission main with a 4,200 LF aerial crossing at the Nansemond River, a 1,000 LF aerial crossing at Bennett's Creek, and a 2,500 LF aerial crossing at Chuckatuck Creek. A 2 MGD master meter was also included to provide water to Isle of Wight County.

**King Coal Highway EIS, Mingo, Wyoming, McDowell, and Mercer Counties, and Williamson and Bluefield, West Virginia.** *West Virginia Department of Transportation, Division of Highways, District 3.* Task Manager. Managed Phase Ia archaeological studies, which included review of the cultural resource files maintained at the State Historic Preservation Office, and managed preparation of historic context and follow-up historic resource inventory and National Register of Historic Places evaluations. Authored portions of the DEIS and historic resource inventory and determination of eligibility report. Baker's current involvement in this proposed 95-mile long, four-lane highway project included: agency scoping; preparation of a Purpose and Need Study; Alternatives Analysis resulting in a reduction of Build Alternatives Report; and analysis of the physical, natural, and socioeconomic environment, for the preparation of the DEIS, FEIS and ROD.

**Corridor D - Phases I & II - Cultural Resources Investigations, Parkersburg, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Task Manager. Managed Phase I and four II archaeological investigations of the Selected Alternative and authored portions of Phase I through Phase II archaeological reports. Baker performed cultural resources investigations on approximately 18 km (11 miles) of proposed right-of-way in the vicinity of Parkersburg, West Virginia, as part of the Appalachian Corridor D highway project. The project area extends from US 50 in Washington County, Ohio to I-77 in Wood County, West Virginia.

**Coalfields Expressway, McDowell, Wyoming and Raleigh Counties, and Williamson and Bluefield, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Task Manager. Managed Phase Ia archaeological studies, which included review of the cultural resource files maintained at the State Historic Preservation Office, and managed preparation of historic context and follow-up historic resource inventory and National Register of Historic Places evaluations. Authored portions of the DEIS and historic resource inventory and determination of eligibility report. Baker conducted a Purpose and Need Study for the Coalfields Expressway, a proposed four-lane highway that would span approximately 60 miles across three southern West Virginia counties (McDowell, Wyoming, and Raleigh), with the southern terminus extending into Buchanan County, Virginia.

**Appalachian Corridor H Environmental Impact Statement, Appalachian Highlands Region, Elkins, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Archaeologist. Conducted extensive historic/archival and informant research, performed historic artifact analysis, and authored portions of more than six Phase I through Phase III archaeological reports. Conducted Phase III-level archival and informant research for the Reed Farmstead site archaeological investigation and authored a portion of the Phase III report. Also performed work as a Historian. The Appalachian Corridor H is 100 mile proposed four-lane highway intended to provide access from Interstate 81 in Northwestern



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Virginia through the rugged, mountainous terrain of West Virginia's Appalachian Highlands Region. Baker was responsible for preparing the tiered Corridor H Supplemental EIS study. This consisted of a corridor-level study evaluation (Corridor Selection EIS) to determine the environmental and engineering constraints existing along 24 potential alternative corridors (Tier 1) and a follow-on Alignment Selection FEIS (Tier 2). Baker also provided advanced preliminary engineering on the preferred alignment. Following the 1996 Record of Decision, the WVDOT and FHWA were sued in Federal District and Appeals Courts by a coalition of 13 environmental groups. Baker provided lawsuit support for legal council during that period-project is now under construction and Baker is providing environmental monitoring and engineering services.

**Mon/Fayette Expressway, PA 51 to I-376, Section Design Support Services, Allegheny County, Pennsylvania.** *Pennsylvania Turnpike Commission.* Architectural Historian. Technical review of historic resource and historic archaeological documents, scopes-of-work, and budgets, as well as mitigation plans and Programmatic Agreements prepared by the PTC's various project consultants; also, participates in regular project status meetings with the client and their consultants and provides technical advice. Also performed work as an Archaeologist. The Mon/Fayette Expressway is a 65-mile long, four lane limited access toll expressway connecting I-68 near Morgantown, West Virginia with Pittsburgh, Pennsylvania. As General Consultant to the Pennsylvania Turnpike Commission, Baker provided design overview, value engineering, and quality assurance/quality control services for the PA 51 to I-376 Section of the project.

**Comprehensive Long Term Environmental Action Navy (Navy CLEAN) I, II, and III, Mid-Atlantic States, Caribbean, and Mediterranean.** *U.S. Navy, Atlantic Division (LANTDIV).* Task Manager. Directed Phase I archaeological survey, coordinated with State and Island review agencies and authored portions of Phase I report. Baker has been providing Installation Restoration Program (IRP); Base Realignment and Closure (BRAC); Petroleum, Oil, Lubricants (POL); and a broad range of environmental services at federal facilities throughout the Atlantic Division under LANTDIV's CLEAN I contract since 1991. Baker serves as Prime Contractor on CLEAN I, and as a Team Subcontractor on CLEAN II and III. On these contracts, Baker has worked at 42 Navy, Army, Marine Corps, and Air Force facilities throughout the AOR. Program phases include: (a) DoD Installation Program support including: Site management plans; community relations plans; preliminary assessments/site investigations (PA/SI); Remedial Investigations/Feasibility Studies (RI/SF); RFI/CMS; interim measures plans; remedial and removal action designs; environment assessments; risk assessments; contamination characterization; sampling, laboratory testing; presentations at Restoration Advisory Boards (RAB); partnering teams with regulators; OMSI; document preparation for facility support contracts; Title II management; (b) Environmental Documentation for Base Closure; (c) Large, Complex POL Sites; (d) Other Environmental Programs; (e) Expedited Response Actions; (f) UXO and Associated Contamination; (g) Range Sustainability; (h) GIS, Web Page and Graphic Support.

**US-VISIT Section 106 Compliance, Various Border Locations.** *U.S. Army Corps of Engineers, Fort Worth District.* Historian. Examined regionally compiled historic data and authored sections of the cultural resource reports for border crossings within the states of Idaho and Montana. Baker assisted the US-VISIT Program with their cultural resource compliance program. The project oversees all requirements of Section 106 of the National Historic Preservation Act. Baker assisted US-VISIT in developing a strategy for introducing this new agency to State Historic Preservation Officers (SHPOs), General Services Administration regional historic preservation officers, and Native American Tribes. In addition to strategy and agency coordination, Baker managed the completion of a cultural resources survey at 165 land ports of entry (LPOEs) on the northern and southern international borders. Baker also supported US-VISIT in developing relationships and communicating with the State Historic Preservation

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Officers in ALLBorder States and thereby began the collection of one of the most comprehensive databases for historic and cultural resources at U.S. LPOEs.

**Shawnee Parkway, Southern Counties, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Task Manager. Managed Phase Ia archaeological studies, which included review of the cultural resource files maintained at the State Historic Preservation Office, and managed preparation of historic context and follow-up historic resource inventory and National Register of Historic Places evaluations. Authored portions of the DEIS and historic resource inventory and determination of eligibility report. Baker conducted a Purpose and Needs Study for the Shawnee Highway, a proposed two-lane roadway spanning approximately 20 miles from Ashland to Ghent, across four southern West Virginia counties (McDowell, Mercer, Raleigh, and Wyoming).

**Route 9 Cultural Resources and Section 4(f) Analysis/Finding, Berkeley & Jefferson Counties, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Principal Investigator. Responsible for directing historic and archaeological investigations to identify and evaluate an unmarked historic family cemetery. Performed the following work as a researcher: collected historic photographs, compiled informant and archival data, and authored or co-authored text for multiple historic roadside markers for selected National Register-listed and eligible historic resources in the project area. Baker's Cultural Resources Section was involved in multiple aspects of this project, including evaluations of cultural resource potential (Phase Ia and Phase I investigative efforts), Phase Ib Archaeological Surveys and Phase II Architectural and Archaeological Studies. Research and testing resulted in the identification of 27 archaeological sites, with seven of those recommended for further study. Of the sites considered for more work, five are prehistoric, two are historic, and one is multicomponent.

**Phase I & II Cultural Resources Investigations, Appalachian Corridor H Highway (Mainline), Hardy, Grant, Tucker, and Randolph Counties, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Archaeologist. Conducted historic/archival and informant research, performed historic artifact analysis, and authored portions of more than six Phase I through Phase III archaeological reports. Baker has performed cultural resources investigations on approximately 161 km (100 mi) of highway right-of-way for the Appalachian Corridor H Project, located in east-central West Virginia. The project extends from Elkins, West Virginia eastward to the West Virginia/Virginia state line, bisecting portions of Randolph, Tucker, Grant, and Hardy counties, and traversing portions of both the Appalachian plateaus and the Ridge and Valley physiographic provinces.

**Appalachian Corridor D - Environmental Impact Statement, US 50 Belpre, OH to US 50/I-77, Parkersburg, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Task Manager. Managed cultural resource investigations for inclusion in the DEIS and conducted extensive historic/archival and informant research. Also managed Phase I archaeological survey, and four follow-up Phase II National Register evaluations and three Phase III data recovery excavations. Authored or co-authored more than 20 Phase I through Phase III archaeological reports and DEIS and FEIS sections. The West Virginia Department of Transportation, Division of Highways (WVDOH) in conjunction with the Federal Highway Administration (FHWA), proposed to complete Appalachian Highway Corridor D from US 50 in Belpre, Ohio, to the vicinity of the US 50/ Interstate 77 (I-77) Interchange east of Parkersburg, West Virginia. The study area includes portions of Wood County, West Virginia; and Washington County, Ohio. The completed project will complete the "missing link" of Corridor D between West Virginia and Ohio and will require spanning the Ohio River.

**Pennsylvania Turnpike Commission, Consulting Engineer, Entire Turnpike System, Pennsylvania.** *Pennsylvania Turnpike Commission.* Architectural Historian. Responsible for Technical review of

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historic structures and historic archaeological documents, scopes-of-work, and budgets, as well as mitigation plans and Programmatic Agreements prepared by the PTC's various project consultants; also, participates in regular project status meetings with the client and their consultants and provides technical advice. Baker has served as the Pennsylvania Turnpike Commission's Consulting Engineer continuously since 1956, performing annual inspections of and reports for all facilities and providing recommendations for their maintenance and repair as outlined in the Trust Indenture which secures revenue bonds for the system. Baker reviews the PTC's capital budget, provides recommendations, and performs quality assurance review during the design and construction of capital projects. Baker has also managed the contracts of other design consultants retained for specific projects. Also performed work as an Archaeologist.

**Millcreek Mall Wetland Mitigation, Erie County, Pennsylvania.** *Cafaro Company.* Archaeologist. Oversaw Phase I historic archaeological site delineation and performed Phase I historic artifact analysis. (1992)

### **Baker Historical Projects**

**Transco Reinforcement Project, Harford County, Maryland.** *Baltimore Gas and Electric Company.* Archaeologist. Supervised Phase 1b archaeological survey, historic resource survey, and preliminary National Register evaluations; also authored portions of the Phase 1b report. (1992)

**Seneca Valley Senior High School Project, Butler County, Pennsylvania.** *Forman Bashford Architects and Engineers.* Archaeologist. Supervised Phase I archaeological investigations, including review of cultural resource files maintained at the State Historic Preservation Office, historic research, and informant interviews; also authored portions of the Phase I report. (1992)

**Proposed Buchanan Ongoing Collection Line, Buchanan County, Virginia.** *Pocahontas Gas Partnership.* Archaeologist. Supervised Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1992)

**Seven-Haulage Degas Boreholes and Access Roads Project, McDowell County, West Virginia.** *U.S. Steel Mining Company.* Archaeologist. Supervised Phase I cultural resource investigations, which included a review of cultural resource files maintained at the State Historic Preservation Office, historic research, and informant interviews; also authored portions of the Phase I cultural resource report. (1992)

**Frederick "A" Substation Project, Frederick, Maryland.** *Allegheny Power System.* Archaeologist. Conducted Phase IA historic and archaeological investigations, including a review of cultural resource files maintained at the State Historic Preservation Office, historic research, and informant interviews; also authored portions of the Phase Ia cultural resource report. (1992)

**Proposed Taneytown No. 1 Loop 138kV Line Right-of-Way, Carrol County, Maryland.** *Allegheny Power System.* Conducted Phase Ia historic and archaeological investigations, including a review of cultural resource files maintained at the State Historic Preservation Office, historic research, and informant interviews; also authored portions of the Phase Ia cultural resource report. (1992)

**Graveyard Monitoring Project near Bethel Presbyterian Church, Uniontown, Pennsylvania.** *Texas Eastern Gas Pipeline Company.* Archaeologist. Conducted historic research and provided on-site monitoring for historic archaeological resources during pipeline remediation activities associated with a

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nineteenth-century church cemetery. Authored portions of the archaeological monitoring report. (08/1992 – 10/1992)

**Hamilton Transit Complex, Mercer County, New Jersey.** *New Jersey Transit Corporation.* Archaeologist. Supervised Phase I archaeological field investigations and authored portions of the Phase I archaeological report. (1992)

#### **Non-Baker Project Experience**

**Woodlawn Park Sanitary Sewer System, Hopewell Township, Beaver County, Pennsylvania.** *NIRA Consulting Engineers, Inc.* Co-Principal Investigator. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1992)

**Lakewood Hospital Development, North Strabane Township, Washington County, Pennsylvania.** *Lakewood Psychiatric Hospital.* Co-Principal Investigator. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1991)

**Preliminary Archaeological Assessment of the Alexander Campbell Property, Bethany College, Brooke County, West Virginia.** *Institute for the History of Technology and Industrial Archaeology.* Archaeologist. Conducted historic research and site files search and assessed archaeological probability of the project area; also authored portions of the summary report. (1991)

**Proposed Natural Gas Pipeline TL-479, Clearfield County, Pennsylvania.** *CNG Transmission Corporation.* Archaeologist. Directed Phase II archaeological investigations at two archaeological sites and authored portions of the Phase II report (1991).

**Grays Landing Lock and Dam, Greensboro, Greene County, Pennsylvania.** *U.S. Army Engineering District, Pittsburgh, Pennsylvania.* Architectural Historian. Prepared architectural documentation, including architectural drawings, of the historic Bargerstock Residence (Tract 339). (1991)

**Archaeological Survey of Cultural Resource Areas Associated with the Battle of Blair Mountain.** *Institute for the History of Technology and Industrial Archaeology.* Archaeologist. Conducted historic research and site files search and assessed archaeological probability of the project area; also authored portions of the summary report. (1991)

**Pipeline TL-473, Extension 1, Tompkins County, and the Woodhull Measuring and Regulating Station Site, Steuben County, New York.** *CNG Transmission Corporation.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1991)

**Proposed Baker Hill Road (T-5231) Bridge Replacement, Columbus Township, Warren County, Pennsylvania.** *Columbus Township.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1991)

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**Valencia Park Development, Valencia Borough, Adams Township, Butler County, Pennsylvania.** *County of Butler.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1991)

**Foxburg Bridge Replacement, S.R. 58, Section 150, Armstrong County, Pennsylvania.** *Gannett Fleming Transportation Engineers, Inc.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1991)

**Natural Gas Pipeline TL-479 and Three Pipeyard Locations in Indiana, Jefferson, and Clearfield Counties, Pennsylvania.** *CNG Transmission Corporation.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1991)

**New Bethlehem Bridge Replacement, SR. 28, Section 150, Armstrong and Clarion Counties, Pennsylvania.** *Gannett Fleming, Inc.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1990)

**Foxburg Bridge Replacement, SR. 58, Section 150, Armstrong County, Pennsylvania.** *Gannett Fleming Transportation Engineers, Inc.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1990)

**Midland Measuring and Regulating Station, Industry Township, Beaver County, Pennsylvania.** *CNG Transmission Corporation.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1990)

**Murrycrest Electrical Transmission Substation and Access Road, Franklin Township, Westmoreland County, Pennsylvania.** *West Penn Power Company.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1990)

**Sharon Storage Pool Natural Gas Transmission Lines, Potter County, Pennsylvania.** *CNG Transmission Corporation.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1990)

**Turnpike to I-79 Connectors, Cranberry Township, Butler County and Marshall Township, Allegheny County, Pennsylvania.** *Gannett Fleming, Inc.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1990)

**Center Township Sanitary Sewer Extension, Center and Hopewell Townships, Beaver County, Pennsylvania.** *Gannett Fleming, Inc.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1990)

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**Malden Industrial Park, California Borough, Washington County, Pennsylvania.** *Redevelopment Authority of the County of Washington, Washington, Pennsylvania, and the Middle Monongahela Industrial Development Association.* Archaeologist. Directed Phase II archaeological investigations; also authored portions of the Phase II report. (1990)

**Western Center, Cecil Township, Washington County, Pennsylvania.** *Redevelopment Authority of the County of Washington.* Archaeologist. Co-directed two Phase III archaeological investigations at two site and authored portions of the Phase III report. (1990)

**Natural Gas Pipeline TL- 479 in Indiana, Jefferson, and Clearfield Counties, Pennsylvania.** *CNG Transmission Corporation.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1989)

**Crayne Compressor Station, Franklin Township, Greene County, Pennsylvania.** *CNG Transmission Corporation.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1989)

**Lower Dunkard Fork (Dam Site WV-3), Greene County, Pennsylvania.** *United States Department of Agriculture, Soil Conservation Service.* Directed six Phase II archaeological investigations and authored portions of the Phase II report. (1989)

**Archaeological Investigations at Site 36FA368, Nicholson Township, Fayette County, Pennsylvania.** *U.S. Army Engineers District, Pittsburgh Corps of Engineers.* Directed systematic archaeological testing and authored portions of the archaeological report. (1988)

**Mon Valley Expressway, Sections BO2 and B30, California Borough and Fallowfield Township, Washington County, Pennsylvania.** *Skelly and Loy.* Directed four Phase III archaeological investigations and authored portions of the Phase II report. (1988)

**Mon Valley Expressway, Legislative Route 1125, Section B30, Phase II, California Borough and Fallowfield Township, Washington County, Pennsylvania.** *Skelly and Loy.* Directed Phase II archaeological investigations and authored portions of the Phase II report. (1988)

**Phase II Archaeological Testing of Sites 36WM277, 36WM278, 36WM282, and 36WM283, Derry Township, Westmoreland County, Pennsylvania.** *VAPCO Engineering, Inc.* Directed four Phase II archaeological investigations and authored portions of the Phase II report. (1988)

**Phase II Archaeological Testing of Sites 36WH115, 36WH942, 36WH943, and 36WH944, Western Center, Cecil Township, Washington County, Pennsylvania.** *Redevelopment Authority of the County of Washington.* Assisted in the field direction of Phase II archaeological investigations and authored portions of the Phase II report. (1987)

**Natural Gas Pipeline LN-12 in Potter and Tioga Counties, Pennsylvania.** *Consolidated Gas Transmission Corporation.* Archaeologist. Directed Phase I archaeological investigations, including

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historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1987)

**Natural Gas Pipeline LN-2403, Extension 1, Cambria County, Pennsylvania.** *Consolidated Gas Transmission Corporation.* Directed Phase III archaeological investigation and authored portions of the Phase III report. (1987)

**Mon Valley Expressway, Legislative Route 1125, Section B30, California Borough and Fallowfield Township, Washington County, Pennsylvania.** *NPW to Skelly and Loy.* Directed Phase II archaeological testing and historic structures eligibility evaluations, and authored portions of the Phase II report. (1987)

**National Road Survey. California University of Pennsylvania.** *Pennsylvania Historical and Museum Commission.* Identified and photodocumented 200+ Road-related extant resources and mapped over 200 potential archaeological resources; also report authored Cultural Resources Survey Report. (1987)

**Limited Archaeological Investigations at Site 36FA368, Nicholson Township, Fayette County, Pennsylvania.** *U.S. Army Engineering District, Pittsburgh Corps of Engineers, Pittsburgh, Pennsylvania.* Directed archaeological probing of prehistoric riverine site and coauthored archaeological report. (1987)

**Mon Valley Expressway LR 1125, Section BD2, California Borough, Washington County, Pennsylvania.** *Skelly and Loy.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1987)

**Crooked Creek Lake, Armstrong County, Pennsylvania. NPW Consultants, Inc., Uniontown, Pennsylvania.** *U.S. Army Engineering District, Pittsburgh, Pennsylvania.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews for 200-acre maintenance and development area; also authored portions of the Phase I report. (1986)

**Natural Gas Pipeline LN- 242, in Clearfield County, Pennsylvania.** *Consolidated Gas Transmission Corporation.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1986)

**Buena Vista Bridge Replacement, Legislative Route 337, Section 009, Indiana County, Pennsylvania.** *Westmoreland Engineering Company.* Directed Phase II archaeological investigations at a prehistoric site and authored portions of the Phase II report. (1986)

**Natural Gas Pipeline D-86- 1 (LN 2420) in Clearfield County, Pennsylvania.** *Consolidated Gas Transmission Corporation.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1986)

**James Parnell- Mateosky Surface Coal Mine, North Union Township, Fayette County, Pennsylvania.** *James Parnell.* Archaeologist. Directed Phase I archaeological investigations, including

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historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1986)

**Stonewall Jackson Lake, Lewis County, West Virginia.** *U.S. Army Corps of Engineers, Pittsburgh, Pennsylvania.* Conducted historic/archival research and assisted in the photo-architectural documentation of extant historic resources and co-authored portions of the final report. (1986)

**Natural Gas Pipeline LN-2403 in Cambria and Indiana Counties, Pennsylvania.** *Consolidated Gas Transmission Corporation.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1985)

**Natural Gas Pipeline H-21847, Ritchie County, West Virginia.** *Consolidated Gas Transmission Corporation.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1985)

**Natural Gas Pipeline H-21826 Extension, Upshur County, West Virginia.** *Consolidated Gas Transmission Corporation.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1985)

**Natural Gas Pipeline LN- 2402 in Clearfield County, Pennsylvania.** *Consolidated Gas Transmission Corporation.* Archaeologist. Directed Phase II archaeological investigations and authored portions of the Phase I report. (1985)

**Connellsville Airport, Fayette County, Pennsylvania.** *Robert Kimball and Associates.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1985)

**Louise Bridge (S305- 7/6-0.04) Project, Brooke County, West Virginia.** *West Virginia Department of Highways.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1985)

**Shirley Bridge (S348- 62-4. 05) Project, Tyler County, West Virginia.** *West Virginia Department of Highways.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1985)

**Natural Gas Wells JW-267, 268, 269, and Pipelines JP- 279, 280, 281, and 282 in Westmoreland County, Pennsylvania.** *Consolidated Gas Transmission Corporation.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1985)

**Natural Gas Pipeline H-21847, Ritchie County, West Virginia.** *Consolidated Gas Transmission Corporation.* Directed four Phase II archaeological investigations and authored portions of the Phase II report. (1985)



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**Colvin to Tonkin Gas Transmission Line for Consolidated Gas Company.** *Michael Baker Jr., Inc.* Directed nine Phase II archaeological investigations and authored portions of the Phase II report. (1985)

**Natural Gas Pipeline LN- 2403, Extension 1, in Cambria County, Pennsylvania.** *Consolidated Gas Transmission Corporation.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1985)

**Natural Gas Pipeline LN- 2402 in Clearfield County, Pennsylvania.** *Gas Transmission Corporation.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1985)

**Natural Gas Pipeline LN- 2407 in Clearfield County, Pennsylvania.** *Consolidated Gas Transmission Corporation.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1985)

**Lycippus Mine, Unity and Mt. Pleasant Townships, Westmoreland County, Pennsylvania.** *M.B. Energy, Inc.* Directed three Phase II archaeological investigations and authored portions of the Phase II report. (1985)

**Natural Gas Pipelines LN-1998 and LN-2400, Banks Township, Indiana County, Pennsylvania.** *Consolidated Gas Transmission Corporation.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1984)

**Natural Gas Pipeline H-217831, Ritchie County, West Virginia.** *Consolidated Gas Supply Company.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1984)

**Nineteenth Century Farmstead Model Development and Testing Project.** *California University of Pennsylvania and Pennsylvania Historical and Museum Commission.* Conducted historic research and developed model to assess the significance of nineteenth-century farmstead archaeological sites. (1984)

**Colvin to Tonkin Gas Transmission Line of Consolidated Gas Corporation, Washington, Allegheny, and Westmoreland Counties, Pennsylvania.** *Consolidated Gas Transmission Corporation.* Archaeologist. Directed Phase I archaeological investigations, including historic research, site files search, and informant interviews; also authored portions of the Phase I report. (1983)

**Historical and Architectural Study of the Smith and Reese Dwellings.** *Consolidation Coal Company.* Conducted historic/archival research and prepared architectural plan and elevational drawings; also co-authored portions of historic documentation report. (1983)

**Architecture, History, Oral History, and Reconstructed Domains: A Study of Select National Register of Historic Places Eligible Structures in the Project Area, Stonewall Jackson Lake, West Fork River, Lewis County, West Virginia.** *U.S. Army Corps of Engineers, Pittsburgh.* Conducted historic/archival research for extant historic resources, and co-authored portions of the final report. (1983)

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**Fayette County Historic Resource Survey.** *California University of Pennsylvania and Pennsylvania Historical and Museum Commission.* Performed limited historic/informant research and conducted county-wide historic resources survey, and authored the final survey report. (1979-1980)

### **Presentations**

Grantz Bastinini, Denise L., William C. Johnson, Ryan W. Robinson, J. Steven Kite, Edward J. Siemon, and Jonathan Glenn. "The Early and Early Middle Archaic Period Occupations at the Confluence of the Little Kanawha and Ohio Rivers, Parkersburg, West Virginia." Seventy-Seventh Annual Meeting of the Society for Pennsylvania Archaeology, Washington, Pennsylvania, May 5-7, 2006.

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Grantz, Denise L. and Ronald L. Michael. 1985. *Phase I Archaeological Survey of Natural Gas Pipeline H-21847, Ritchie County, West Virginia*. Submitted by NPW Consultants, Inc. to Consolidated Gas Transmission Corporation.

Grantz, Denise L. and Ronald L. Michael. 1985. *Phase I Archaeological Survey of Natural Gas Pipeline H-21826 Extension, Upshur County, West Virginia*. Submitted by NPW Consultants, Inc. to Consolidated Gas Transmission Corporation.

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Grantz, Denise L., Ronald L. Michael, and Hettie L. Boyce. 1985. *Phase II Archaeological Study of Sites 19A, 20A, 20B, 21A, 21B, 22A, 24A, 53A (36WMI02), and 98A for the Colvin to Tonkin Gas Transmission Line for Consolidated Gas Company*. Submitted by NPW Consultants, Inc. to Michael Baker Jr., Inc.

Grantz, Denise L., KellyLynn L. Cosgrove, and Ronald L. Michael. 1985. *Phase I Archaeological Survey of Natural Gas Pipeline LN- 2403, Extension 1, in Cambria County, Pennsylvania*. Submitted by NPW Consultants, Inc. to Consolidated Gas Transmission Corporation.

Grantz, Denise L., KellyLynn L. Cosgrove, and Ronald L. Michael. 1985. *Phase I Archaeological Survey of Natural Gas Pipeline LN- 2402 in Clearfield County, Pennsylvania*. Submitted by NPW Consultants, Inc. to Consolidated Gas Transmission Corporation.

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Grantz, Denise L. and Ronald L. Michael. 1984. *Phase I Archaeological Survey of Natural Gas Pipelines LN-1998 and LN-2400, Banks Township, Indiana County, Pennsylvania*. Submitted by NPW Consultants, Inc. to Consolidated Gas Transmission Corporation.

Grantz, Denise L. and Ronald L. Michael. 1984. *Phase I Archaeological Survey of Natural Gas Pipeline H-217831, Ritchie County, West Virginia*. Submitted by NPW Consultants, Inc. to Consolidated Gas Supply Company.

Grantz, Denise L. 1984. *Final Report: Nineteenth Century Farmstead Model Development and Testing Project*. Submitted by the California University of Pennsylvania to the Pennsylvania Historical and Museum Commission.

Grantz, Denise L. and Ronald L. Michael. 1983. *Phase I Archaeological Survey and Testing of the Proposed Colvin to Tonkin Gas Transmission Line of Consolidated Gas Corporation: Washington, Allegheny, and Westmoreland Counties, Pennsylvania*. Submitted by NPW Consultants, Inc. to Consolidated Gas Transmission Corporation.

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Grantz, Denise L. 1982. *Final Report: Fayette County Historic Resource Survey. Prepared Under the Supervision of Dr. Ronald L. Michael*. Submitted by California State College to the Pennsylvania Historical and Museum Commission.

### **Professional Papers**

Grantz, Denise L. Stephen J. Hinks, and Martin T. Fuess. 1998. *Separating the Wheat from the Chaff: Evaluating the Research Potential of Postbellum and Early Twentieth-Century Farmsteads*. Paper presented at the 1998 Summer Meeting and Workshop Transportation Research Board, Committee on Historic and Archaeological Preservation in Transportation, San Diego, California, July 27, 1998.

### **Unpublished Masters Research Paper**

Grantz, Denise L. 1994. *The National Road: A Cultural Resources Survey - Somerset, Fayette, and Washington Counties, Pennsylvania*. Anthropology Department, University of Pittsburgh 1994.

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### **Seminars/Conferences**

"The New 36CFR Part 800: Highlights of Changes Seminar," Advisory Council on Historic Preservation, Atlanta, Georgia, May 1999.

"Issues in Federal Cultural Resources Compliance Seminar," National Preservation Institute, Boston, Massachusetts, October 1997.

### **Teaching**

Substitute Instructor, Archaeological Field School, California University of Pennsylvania, Fall 1985.

### **Professional Affiliations**

Council for Northeast Historical Archaeology

### **References**

Rodney DeMott, Archaeologist, West Virginia Department of Transportation, Division of Highways

David Willis, Environmental Manager, Pennsylvania Turnpike Commission

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# Carol J. Peterson

## Architectural Historian

### General Qualifications

Ms. Peterson has served as Principal Investigator or project team member for cultural resource investigations in many northeastern and Midwestern states. She has worked on determinations of eligibility, with responsibilities including historic context preparation, resource histories and field survey, and on Historic American Building Survey (HABS)/ Historic American Engineering Record (HAER) recordations. She has prepared numerous historic contexts for archaeological investigations. Historic resources for which

Ms. Peterson has prepared determinations of eligibility or performed other research include residential, commercial and industrial buildings, farms, institutions, transportation facilities and structures, parks, and historic districts.

Ms. Peterson has particular experience in researching and assessing the history and cultural context of a wide variety of buildings. She has researched and prepared histories of approximately 2,000 buildings constructed in the 19th or 20th centuries. She has considerable experience in the documentation of property ownership, building construction, and cultural context and neighborhood development, and she has authored biographies of more than 1,300 early homeowners. Her research experience includes site visits and use of deeds, mortgages, and building records; historic maps; city and town directories; biographical materials; local histories; county atlases; architectural and construction publications; informant interviews; newspaper, photographic, and architectural archives; and corporate histories.

### Experience

**NYSDOT Region 1 Term Agreement, Palenville, New York.** *New York State Department of Transportation, Region 1.* Historian. Responsibilities included performing historical research and preparing historic archaeological context. Under this term agreement, Baker provided Preliminary & Final design on three separate assignments. Assignment 1 included rehabilitation/reconstruction of 1.6 km of Route 23A, beginning 0.3 km east of Intermann's Bridge and extending eastward to 0.3 km east of the intersection of Route 32A in the Hamlet of Palenville. The project also includes the reconstruction and realignment of the intersection of Route 23A with Route 32A. Assignment 2 included highway and bridge design for the replacement of the bridge which carries Route 23A over Kiskaton Brook and a box culvert which carries Route 23A over an unnamed stream. Assignment 3 included reconstruction of 2.1 km of Everett Road, beginning and extending eastward to the intersection with Albany-Shaker Road. The project also includes the reconstruction and realignment of intersections, road widening, addition of turning and travel lanes, drainage improvements and accommodations for pedestrians and bicycles.

**General Aviation Terminal Building Design, Connellsville Airport (VVS), Lemont Furnace, Pennsylvania.** *Fayette County Airport Authority.* Architectural Historian. Responsibilities included performing historical research and preparing historic context. Baker provided design services under a Task Order Engineering Agreement for the construction of this terminal building. The terminal building, with an estimated construction budget of \$1,800,000, was anticipated to be approximately 6,000 square feet in size based on preliminary discussions with the owner. The size of the existing hangar to be

Years with Baker: 14

Years with Other Firms: 14

#### Education

M.U.R.P., 1985, Urban and Regional Planning, University of Pittsburgh

B.A., 1981, English Writing, Widener University



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renovated is approximately 24,200 square feet. The anticipated construction budget for this portion of the work is \$700,000. In addition to design-related duties, Baker assisted the Airport Authority with a construction management support service, tailored to the client's needs. The Baker Team advised the Authority on schedule, quality, cost, and contractor coordination to assure well-informed and properly planned construction management of the project.

**Cultural Resource Services, Statewide, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Historian. Responsibilities included preparing historic context. Michael Baker Jr., Inc. (Baker) was contracted by the West Virginia Department of Transportation, Division of Highways (WVDOH) to conduct NHPA Section 106 services. Baker's Charleston-based cultural resource and environmental staff, engineers, designers, planners, and technicians also support this project, if necessary.

**C.R. 581 - Commissioner's Pike Project Scoping, Salem County, New Jersey.** *South Jersey Transportation Planning Organization.* Architectural Historian. Responsibilities included surveying historic resources, performing historical research, and preparing historic context. Baker undertook a project scoping study to evaluate various roadway improvements for Commissioner's Pike, County Road 581. The proposed project included providing two 12-foot lanes (one in each direction) with 3-foot dense grade aggregate continuous shoulders, overlay with a minimum 2-inch HMA surface including modification of the existing flat cross-slope to provide a normal crown section in accordance with design criteria, repair areas of depressed pavement with full depth asphalt and replace existing cross pipes at same location and invert.

**Environmental Support for the Widening of 5 Miles of I-77 (SUM-77-15.72) Task Order 6, Akron, Ohio.** *Ohio Department of Transportation, District 4.* Historian. Responsibilities included preparing historic context. Baker was responsible for the completion of environmental documentation for cultural and ecological resources that were started as part of a previous task order. Baker also prepared a summary of environmental concerns for the Categorical Exclusion document.

**Environmental Assessment for Runway 5-23 Safety Area Improvements and Extension, Akron-Canton Airport (CAK), Akron, Ohio.** *Akron-Canton Regional Airport Authority.* Architectural Historian. Responsibilities included surveying historic resources, performing historical research, and preparing historic context. To meet the fast-track needs of the Akron-Canton Regional Airport Authority, Baker completed an Environmental Assessment to analyze potential Runway Safety Area impacts associated with the proposed improvements to and extension of Runway 5-23. The enhancements were planned to increase runway operating safety in compliance with FAA regulations. Baker's work resulted in a Finding of No Significant Impact (FONSI) issued by the FAA just eight months following Notice to Proceed.

**Archaeological and Historic Resource Survey of the Bizzack Fill Areas, Parkersburg, West Virginia.** *Bizzack, Inc.* Architectural Historian. Responsibilities included performing historical research and preparing historic context. Baker performed a Phase I archaeological survey and historic resources survey and eligibility assessment of two noncontiguous, upland drainages that were selected for permanent dumping of residual soils resulting from construction of the Appalachian Corridor D highway system. The two proposed areas collectively spanned roughly 24 ha (60 ac). The work was conducted for Bizzack, Inc., Lexington, Kentucky. As part of the Phase I archaeological survey, two historic archaeological sites and a historic isolated find site were identified. The historic resources survey identified two unrecorded historic resources over 50 years of age.

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**U.S. Route 231 Corridor Engineering and Environmental Services, West Lafayette, Indiana.**

*Indiana Department of Transportation.* Historian. Responsibilities included performing historical research and preparing historic content. Baker prepared an Environmental Assessment per National Environmental Policy Act (NEPA) guidance for the relocation of US 231 between State Road 26 and US 52. A new environmental study was conducted for this project due to changes in the study area since the issuance of a prior (1992) Final Environmental Impact Statement (FEIS) / Record of Decision (ROD). The relocation of U.S. 231 will relieve the congestion related to urban growth, increased traffic, and safety concerns associated with West Lafayette and Purdue University.

**Millcreek Mall Wetland Mitigation, Erie, Pennsylvania.** *Cafaro Company, The.* Architectural Historian. Responsibilities included performing Phase I cultural resources investigations conducted in wetlands replacement site area. For Phase I of this project, Baker served as project manager and designer for a 12-acre wetland mitigation site in Erie County, Pennsylvania. The project included agency coordination, detailed hydraulic and hydrologic studies, preparation of conceptual design for agency approval, construction drawings, and post-construction review. Phase II involved planning, design and permitting of an additional 5-acre replacement wetland project.

**Lawrenceville Access Road, Pittsburgh, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 11-0.* Architectural Historian. Responsibilities included documenting the history of architectural resources within the Area of Potential Effect. Baker conducted a Needs Analysis, Congestion Management System Analysis and Design Alternative Studies and prepared the Environmental Impact Statement (EIS) for a proposed five-mile industrial access facility. Alternatives developed improved truck access to industrial sites without providing single occupancy vehicle commuters the same access. Significant project issues included alleviation of traffic congestion, connection to four major crossings of the Allegheny River, geotechnical concerns (unstable soils and landslide-prone areas), and relocation of an active rail line.

**Intermodal Freight Center, Erie International Airport/Tom Ridge Field (ERI), Erie, Pennsylvania.** *Erie Municipal Airport Authority.* Architectural Historian. Responsibilities included preparing historic context. Baker has provided planning, environmental, and engineering services for the demolition of the Fenestra manufacturing facility and the establishment of an Intermodal Freight Center. The environmental support element of this project included the following environmental assessment activities:

- Scoping sessions with the FAA, Erie Municipal Airport Authority, the Pennsylvania Department of Transportation Bureau of Aviation and related agencies
- Environmental coordination and analyses
- FAA Environmental Form A and C documentation

Baker developed an Environmental Form A for the Fenestra site demolition and an Environmental Form C for the cargo facility development. In addition to the environmental assessment activities, Baker provided obstruction analysis.

**Ironton-Russell Bridge Replacement Environmental Impact Study (EIS), between Ironton, Ohio, and Russell, Kentucky.** *Ohio Department of Transportation, District 9.* Architectural Historian. Responsibilities included researching history of historic resources and researching and preparing historic context. Baker prepared NEPA documentation to assess environmental alternatives for the replacement of the Ironton-Russell Bridge across the Ohio River. The existing Ironton-Russell Bridge, constructed in 1922, was structurally deficient and functionally obsolete and had to be replaced with a structure that

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satisfied current design standards. Because the bridge was listed on the Ohio Historic Bridge Inventory, and eligible for listing on the National Register of Historic Places, planning activities included an avoidance alternative.

**Phase I Archaeological Evaluation of the Proposed Buffalo Foul Weather Moorings Project Area, Buffalo, New York.** *U.S. Coast Guard.* Architectural Historian. Responsibilities included performing historical research and preparing historic context. Baker's Cultural Resources Section advised the United States Coast Guard on cultural resources compliance issues associated with the proposed consolidation of the United States Coast Guard Group Buffalo operations located on Lighthouse Point in Buffalo, New York from their current location near the landmark 1833 Buffalo Main Light eastward toward what is currently utilized as a combination of playing fields and a City of Buffalo-leased picnic pavilion/park area.

**Tipton Airport Open End Services, Tipton Airport (FME), Odenton, Maryland.** *Anne Arundel County Maryland.* Architectural Historian. Responsibilities included performing preliminary surveys and historical research and preparing historic context. Baker is providing general consulting services for the Tipton Airport Authority (TAA), Anne Arundel County (AACo.), Maryland. The contract value for this project was \$570,815.

**New River Parkway Environmental Impact Statement, New River Gorge, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Architectural Historian. Responsibilities included documenting the history of architectural resources. Baker worked with the Community Design Assistance Center at Virginia Polytechnic Institute and State University to complete a historical, architectural and archaeological survey and evaluation of the New River Gorge area between Hinton and Sandstone, West Virginia. Baker's work also included Indiana Bat mist net survey and an extensive analysis of secondary and cumulative impacts.

**Route 94, Phase I Archaeological & Intensive Architectural Survey, Statewide, New Jersey.** *New Jersey DOT.* Architectural Historian. Responsibilities included surveyed historic resources, performing historical research, and preparing historic context. Baker conducted a Phase I archaeological and intensive architectural survey of Route 94 between Mt. Pleasant Road and Frog Pond Road, Knowlton Township, Warren County, New Jersey for the New Jersey Department of Transportation. The project consisted of the proposed replacement of the current concrete bridge over Yards Creek, a tributary of Paulins Kill, and related road widening activities. For the purposes of this survey, the preliminary area of potential effect (APE) for this project consisted of an approximately 1,219.2 m (4,000 ft) long segment of Route 94 between Mount Pleasant Road and Frog Pond Road, incorporating most of the Village of Hainesburg.

**Moorefield Bypass, Moorefield, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Architectural Historian. Responsibilities included identifying, surveying, and evaluating historic resources within multiple alternatives. As part of this project, Baker prepared a Purpose and Need Study to construct an approximate 5-mile roadway to serve as a bypass of the center of Moorefield in Hardy County, West Virginia. The project was developed to address the region's increasing transportation demands and growing traffic safety concerns.

**Shepherdstown Bridge, Jefferson County, WV; Washington County, MD.** *West Virginia Department of Transportation, Division of Highways.* Architectural Historian. Responsibilities included performing historical research. Baker was selected by the West Virginia Division of Highways (WVDOH) to provide all environmental and engineering services for the replacement of the James Rumsey Bridge. The bridge

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is a historic structure of Wichert Truss design originally constructed in 1937. It is listed on the National Register of Historic Places. The James Rumsey Bridge carries WV Route 480 and MD Route 34 vehicular traffic over the Potomac River. The bridge currently has sidewalks on both sides that carry pedestrians and bicyclists. The bridge also crosses over the C&O Canal National Park and National Register listed C&O Canal on the Maryland side. The town of Shepherdstown, West Virginia lies on the west side of the bridge. The replacement of the bridge is necessitated by its rapidly deteriorating condition. The AASHTO LRFD Bridge Design Specifications were used for this bridge design.

**Shermans Dale Bridge Replacement Preliminary & Final Design, Carroll Township, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 8-0.* Historian. Responsibilities included preparing historic context for archaeological site. Replacement of existing bridge over Shermans Creek. The existing three-span structure is structurally deficient and requires replacement. A two-span structure on a new alignment will be constructed.

**Historic Structures and Terrestrial Archaeological Site Identification and Analysis Services Agreement 98-100B, Statewide, Maryland.** *Maryland State Highway Administration.* Architectural Historian. Responsibilities included surveying historic resources. Baker provided consulting services on various task orders to the Office of Planning and Preliminary Engineering. The results of these task orders were then incorporated in environmental evaluations prepared by the State Highway Administration or by other consultants. Baker's architectural historians were especially conscious of the importance of sound historic resource evaluations in larger environmental evaluations.

**S.R. 18 Relocation Project (Geneva College) - Preliminary Engineering, Beaver County, Beaver Falls, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 11-0.* Architectural Historian. Responsibilities included identifying and recording historic resources. The proposed project will realign S.R. 0018 to eliminate the two 90-degree turns on 32nd Street by providing a sweeping diagonal curvilinear alignment with two travel lanes, sidewalks and standard width parallel parking lanes on both sides of the roadway between 4th and College Avenues. In addition, the intersection of S.R. 0018 and 31st Street will have curb bulbouts to enhance pedestrian safety at the street crossing.

**FAA Environmental Evaluation "Form C" for Hangar Development, Allegheny County Airport (AGC), Pittsburgh, Pennsylvania.** *Allegheny County Airport Authority.* Historian. Responsibilities included preparing historic context. Baker worked closely with the Allegheny County Airport Authority to complete environmental clearances for FAA approval of proposed new hangar development at Allegheny County Airport. Specifically, Baker completed an FAA Environmental Evaluation "Form C" for the project. This included developing alternatives to avoid impacts to Mifflin Cemetery and the Heinz Hangar. Baker also conducted airport tenant interviews and a special meeting with airport tenants and West Mifflin Borough to obtain input on the alternatives and the proposed project. As part of follow-on work, Baker conducted a Phase I Archaeological Survey and prepared a historic structures letter report to meet a request from the Pennsylvania Historic & Museum Commission. A Finding of No Significant Impact from the FAA is anticipated shortly.

**Nelsonville Bypass Cultural Resources Phase II & NRHP, Nelsonville, Ohio.** *Ohio Department of Transportation, Central Office.* Architectural Historian. Responsibilities included researching history of architectural resources. Baker was retained by Parsons Brinckerhoff to conduct Phase II Cultural Resource Studies for the Nelsonville Bypass Project.

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**Hickory Street Bridge, S.R. 3005, Section B00, (over the Allegheny River), Warren, Pennsylvania.**

*Pennsylvania Department of Transportation (PennDOT), District 1-0.* Architectural Historian. Responsibilities included surveying historic resources, performing historical research and preparing historic context. Baker designed a replacement for the Hickory Street Bridge in Warren, Pennsylvania. The original bridge, which carried S.R. 3005 over the Allegheny River, was a four-span, concrete arch bridge approximately 500 feet long. It served as a major community connector, linking businesses on the north side with neighborhoods on the south side of the Allegheny River. Built in 1917, the bridge was structurally deficient and functionally obsolete, and was closed to pedestrian and vehicular traffic. The goal of this project for the Pennsylvania Department of Transportation (PennDOT) was to design a bridge replacement that not only satisfies community expectations by replicating the aesthetics of the original structure, but meets PennDOT's funding and maintenance criteria.

**Cultural Resources Statewide Agreement, Various Locations, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Architectural Historian. Responsibilities included surveying historic resources, performing historical research, and preparing historic context. Baker provided statewide cultural resources consulting services pertaining to Section 106 of the National Historic Preservation Act.

**31st Street Bridge Rehabilitation, S.R. 2122, Section A03, Pittsburgh, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 11-0.* Architectural Historian. Responsibilities included documenting the history of architectural resources and performing research for archaeological context. Baker provided preliminary and final design services for the rehabilitation of the historic 31st Street Bridge in the City of Pittsburgh, Pennsylvania. In addition to structural rehabilitation, the objective of this project is to widen the bridge deck as much as possible. Investigations included consideration for replacement of approach spans versus rehabilitation.

**Spine Line Corridor MIS/DEIS, Pittsburgh, Pennsylvania.** *Port Authority of Allegheny County.* Architectural Historian. Responsibilities included performing an inventory of historic and archaeological resources, constraint mapping, and historical research. Baker participated in a Major Investment Study and draft environmental impact statement, conducted for the expansion of PAT's Light Rail Transit System. In a subconsultant role, Baker was responsible for environmental studies of three corridor alternatives from Downtown Pittsburgh eastward to Oakland and two corridors connecting Downtown Pittsburgh with the North Side. In addition, the study is also evaluated impacts associated with the Intra North Shore Circulation System which would connect major cultural attractions such as Three Rivers Stadium and the Carnegie Science Center.

**Washington Crossing Gateway Park and Streetscape Project, Washington Crossing, Pennsylvania.**

*Pennsylvania Department of Transportation (PennDOT), District 6-0.* Architectural Historian. Responsibilities included surveying historic resources, performing historical research, and preparing historic context. This project involved the design of the Washington Crossing Gateway Park: Village Streetscape and Pedestrian/Bicycle Linkages within the village of Washington Crossing. As part of this project, series of pedestrian and shared use paths were constructed. The project also included roadway improvements of reconstructing and resurfacing General Washington Memorial Boulevard. All work was on public lands such as DCNR and PHMC properties or within the PENNDOT right-of-way along state highways. The existing horizontal and vertical geometry of General Washington Memorial Boulevard was not changed by this project.

**Lakefront West Highway Improvements (CUY-6-12.20), Lake Ave/West Blvd to the Main Avenue Bridge, Cleveland, Ohio.** *Ohio Department of Transportation, District 12.* Historian. Responsibilities

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included performing historical research and preparing historic context. The project includes the conversion of the existing Cleveland Memorial Shoreway (West Shoreway) from a six-lane, limited-access highway to a six-lane, low-speed, pedestrian-friendly facility. Baker provided a range of services to support the transportation improvements, including planning, traffic modeling, design, NEPA, and public involvement. As part of the conversion, Baker studied eight access points to introduce new or modified at-grade intersections that will connect the surrounding neighborhoods to the new facility.

**King Coal Highway EIS, Mingo, Wyoming, McDowell, and Mercer Counties, and Williamson and Bluefield, West Virginia.** *West Virginia Department of Transportation, Division of Highways, District 3.* Architectural Historian. Responsibilities included identifying, surveying, and evaluating historic resources within multiple alternatives. Also responsible for preparing historic contexts and supervising work of field survey team. Baker's current involvement in this proposed 95-mile long, four-lane highway project included: agency scoping; preparation of a Purpose and Need Study; Alternatives Analysis resulting in a reduction of Build Alternatives Report; and analysis of the physical, natural, and socioeconomic environment, for the preparation of the DEIS, FEIS and ROD.

**Lower Wissahickon Green Ribbon Trail, Fort Washington, Pennsylvania.** *Montgomery County Planning Commission.* Architectural Historian. Responsibilities included performing historical research and preparing historical context. Baker provided environmental studies, trail planning and final design as well as construction inspection for a multi-use trail project in Montgomery County, Pennsylvania. The project was funded and constructed entirely by Montgomery County.

**Market Street Bridge Replacement (S.R. 0015), Preliminary and Final Design, Williamsport, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 3-0.* Architectural Historian. Responsibilities included identifying, surveying, and evaluating historic resources and preparing historic context. The Market Street Bridge replacement project involved in-depth structural inspection and rating/analysis, preliminary engineering and alternatives analysis, final design, and construction services for the construction of 6 new structures. Roadway work included reconstruction and widening of I-180 and construction of three roundabouts. Baker also performed all associated traffic work.

**Mineral Wells Interchange Overpass, Mineral Wells, West Virginia.** *Presnell Group.* Architectural Historian. Responsible for performing historic research. Baker provided full-time construction inspection on this interchange overpass project along I-77 for the WVDOH. The project involves replacing the existing 2-lane bridge over I-77 with a 6-lane structure.

**Market Street Bridge Replacement - Phases I and II Archaeological Field Investigations, City of Williamsport & Borough of S. Williamsport, Lycoming County, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 3-0.* Historian. Responsibilities included preparing historic context. The Market Street Bridge Replacement project consisted of Phase I and Phase II archaeological investigations. The urban setting of the project presented several challenges to the cultural resource effort which, spanning the Susquehanna River, required the definition of two, non-contiguous Areas of Potential Effect (APE), as well as separate APEs for archaeological resources and historic structures.

**I-69 Tier 2 Section 5 - EIS and Engineering Services, Bloomington, Indiana.** *Indiana Department of Transportation.* Architectural Historian. Responsibilities included surveying historic resources, performing historical research, and preparing historic context. Baker provided Tier 2 environmental and engineering services to the Indiana Department of Transportation for one of six sections of the planned I-

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69 corridor. Baker's section, Section 5, is located in Monroe and Morgan Counties, Indiana. Services included NEPA Environmental Impact Statement studies and documentation, Engineer's Report, and Public Involvement.

**I-295 / Rt 38 CED Improvement Project, Townships of Mount Laurel and Moorestown, New Jersey.** *New Jersey DOT.* Architectural Historian. Responsibilities included surveying historic resources, performing historical research, and preparing historic context. Baker was responsible for roadway improvements for about 1.5 miles along Route 38 as well as about 1.5 miles along I-295. The roadway improvements include profile adjustments, roadway resurfacing, lane additions and reconfigurations, geometric improvements, as well as the associated lighting and drainage improvements.

**Appalachian Corridor H Environmental Impact Statement, Appalachian Highlands Region, Elkins, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Architectural Historian. Responsibilities included surveying historic resources, performing historical research, and preparing historic context. The Appalachian Corridor H is 100 mile proposed four-lane highway intended to provide access from Interstate 81 in Northwestern Virginia through the rugged, mountainous terrain of West Virginia's Appalachian Highlands Region. Baker was responsible for preparing the tiered Corridor H Supplemental EIS study. This consisted of a corridor-level study evaluation (Corridor Selection EIS) to determine the environmental and engineering constraints existing along 24 potential alternative corridors (Tier 1) and a follow-on Alignment Selection FEIS (Tier 2). Baker also provided advanced preliminary engineering on the preferred alignment. Following the 1996 Record of Decision, the WVDOT and FHWA were sued in Federal District and Appeals Courts by a coalition of 13 environmental groups. Baker provided lawsuit support for legal council during that period-project is now under construction and Baker is providing environmental monitoring and engineering services.

**Appalachian Corridor H - Middle South Branch Valley Alternative, Phase I Archaeological Survey, Hardy County, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Historian. Responsibilities included performing historical research and preparing historic contexts for archaeological sites. Baker is conducting a Phase I-II archaeological study of an approximately 9-mile long, 300- to 1000-foot wide new highway corridor located in Hardy County, West Virginia. The project is being completed as part of the on-going cultural resource investigations by Baker for the Appalachian Corridor H project. Field testing of the Middle South Branch Valley corridor began in October of 1998 and has been completed. The corridor encompasses a variety of topographic settings including uplands and stratified alluvial floodplains along the South Branch of the Potomac River and its tributaries. Baker identified over 70 archaeological sites within the project corridor.

**Coalfields Expressway, McDowell, Wyoming and Raleigh Counties, and Williamson and Bluefield, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Architectural Historian. Responsibilities included identifying, surveying, and evaluating historic resources within multiple alternatives. Also responsible for preparing historic contexts and supervising work of field survey team. Baker conducted a Purpose and Need Study for the Coalfields Expressway, a proposed four-lane highway that would span approximately 60 miles across three southern West Virginia counties (McDowell, Wyoming, and Raleigh), with the southern terminus extending into Buchanan County, Virginia.

**Crittenden Road/Route 17/Shoulders Hill Road Water Transmission Main, Suffolk, Virginia.** *Suffolk, VA (City of) (DPU).* Historian. Responsibilities included preparing historic context for archaeological site. Baker was responsible for providing preliminary design, final design and construction services for the water transmission extensions and necessary facility upgrades to serve these

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corridors in northern Suffolk. The project included approximately 66,000 LF of 20- to 36-inch diameter water transmission line and approximately 7,300 LF of 16-inch water transmission main with a 4,200 LF aerial crossing at the Nansemond River, a 1,000 LF aerial crossing at Bennett's Creek, and a 2,500 LF aerial crossing at Chuckatuck Creek. A 2 MGD master meter was also included to provide water to Isle of Wight County.

**Fulton Road Bridge Replacement, Cleveland, Ohio.** *Cuyahoga County.* Architectural Historian. Responsibilities included performing historical research and preparing historic context. Baker provided preliminary and final design engineering services for the replacement of a concrete arch bridge in a culturally and architecturally significant section of the City of Cleveland. The bridge goes over the Big Creek Valley and crosses the Cleveland Metroparks Zoo, Big Creek, Norfolk Southern and CSX Railroads, and John Nagy Boulevard. Context sensitive design approaches were followed in structure type selection and final design and included significant project stakeholder and public involvement. The proposed bridge was 1,568-foot-long and included six 210-foot concrete deck arch spans. Pre-cast, post-tensioned concrete construction was proposed for the arches, pier and spandrel columns and girders to speed construction and provide long-term durability.

**US-VISIT Program Management, GIS, and Environmental Support Services - Nationwide, Nationwide.** *Department of Homeland Security, US-VISIT.* Architectural Historian. Responsibilities included surveying historic resources, performing historical research, and preparing historic contexts. Baker is providing program management and related planning, environmental, engineering design, and geospatial services supporting the mission of the Department of Homeland Security (DHS) in modernizing and improving the nation's immigration and border management system and thereby strengthening national security.

**On-Call Multi-Discipline Services, Pittsburgh International, and Allegheny County Airports (PIT/AGC), Pittsburgh, Pennsylvania.** *Allegheny County Airport Authority.* Historian. Responsibilities included preparing architectural and historical documentation for the recordation for the National Register-eligible terminal building. Since 1989, Baker has provided multi-discipline, on-call services to the Allegheny County Airport Authority (ACAA). Baker acted as an extension to ACAA's staff, providing the depth of resources and experience of the entire company when called upon. We provide a full range of services to ACAA on an "On-Call/As-Needed" basis, including architecture, civil, structural, mechanical, electrical and environmental engineering, general engineering administration, construction management, and other areas.

**S.R. 0218, Section A10 - Highway/Railroad Grade Separation Project, Waynesburg, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 12-0.* Historian. Responsibilities included participating in preparation of historic context. Baker was selected to perform preliminary engineering and prepared final design documents for a grade separation structure spanning Norfolk Southern Railroad tracks, South Fork Ten Mile Creek, and local streets of Waynesburg. The designed structure was approximately 595 feet in length and consisted of a 7-span P/S I-Beam superstructure on curved alignment with a radius of 3,820 feet. S.R. 0218 was realignment for 1,615 feet to accommodate two 12-foot lanes, 2'-0" curb gutters, and a 5-foot sidewalk. Preliminary engineering involved environmental, H&H, traffic control, geotechnical, TS&L and drainage studies, in addition to required surveying, utilities, and right-of-way investigations.

**S.R. 0079, Section A23, Interstate 79 Missing Ramps, Collier and Robinson Townships, Pittsburgh, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 11-0.* Architectural



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Historian. Responsibilities included surveying buildings and preparing historic context, along with identifying and recording historic resources. Project consisted of an addition of two direct connection ramps to an existing interchange, plus widening and realignment of more than a mile of limited access highway. Estimated construction cost \$60 million.

**S.R. 2 Improvements (LAK-2-0.00), SLM 0.00 to SLM 3.33, Lake County, Ohio.** *Ohio Department of Transportation, District 12.* Historian. Responsibilities included preparing historic context. This final design project consists of environmental documentation, roadway improvements, and bridge repairs for 3.33 miles of S.R. 2 from the Lake County line to S.R. 91. Project includes the addition of new noise barriers, new lighting, new guardrail, and drainage improvements. The noise wall design will incorporate aesthetic details as determined from the public involvement process involving local stakeholders.

**S.R. 28, Sections A09 & A10 - DEIS/FEIS, Pittsburgh, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 11-0.* Historian. Responsibilities included performing historical research and preparing historic archaeological context. Baker performed a study of improvements for a section of S.R. 28 between Troy Hill Road in the City of Pittsburgh and the Millvale Interchange in the Borough of Millvale. The roadway segment, a four-lane undivided principal arterial with four signalized intersections, had a high daily traffic volume. Adjacent sections of S.R. 28 were previously upgraded to limited access facilities. Draft and Final Environmental Impact Statements were prepared. Detailed engineering and environmental analyses are currently being performed.

**Shawnee Parkway, Southern Counties, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Architectural Historian. Responsibilities included identifying, surveying, and evaluating historic resources within multiple alternatives. Also responsible for preparing historic contexts. Baker conducted a Purpose and Needs Study for the Shawnee Highway, a proposed two-lane roadway spanning approximately 20 miles from Ashland to Ghent, across four southern West Virginia counties (McDowell, Mercer, Raleigh, and Wyoming).

**Route 9 Cultural Resources and Section 4(f) Analysis/Finding, Berkeley & Jefferson Counties, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Architectural Historian. Responsibilities included surveying historic resources, performing historical research, and preparing historic contexts for historic resources and archaeological sites. Baker's Cultural Resources Section was involved in multiple aspects of this project, including evaluations of cultural resource potential (Phase Ia and Phase I investigative efforts), Phase Ib Archaeological Surveys and Phase II Architectural and Archaeological Studies. Research and testing resulted in the identification of 27 archaeological sites, with seven of those recommended for further study. Of the sites considered for more work, five are prehistoric, two are historic, and one is multicomponent.

**Route 49 over the Cohansy River Bridge Replacement Project, Bridgeton, New Jersey.** *New Jersey DOT.* Architectural Historian. Responsibilities included surveying historic resources, performing historical research, and preparing historic context. Baker was selected by NJDOT to perform preliminary and final design services for the replacement of the Route 49 Bridge over the Cohansy River. The proposed improvements were needed to mitigate a high accident rate on Route 49, improve traffic circulation along the corridor and at the four existing signalized intersections, and to eliminate substandard geometric deficiencies.

**Phase I & II Cultural Resources Investigations, Appalachian Corridor H Highway (Mainline), Hardy, Grant, Tucker, and Randolph Counties, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Architectural Historian. Responsibilities included surveying

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historic resources, performing historical research, and preparing historic context. Baker has performed cultural resources investigations on approximately 161 km (100 mi) of highway right-of-way for the Appalachian Corridor H Project, located in east-central West Virginia. The project extends from Elkins, West Virginia eastward to the West Virginia/Virginia state line, bisecting portions of Randolph, Tucker, Grant, and Hardy counties, and traversing portions of both the Appalachian plateaus and the Ridge and Valley physiographic provinces.

**Petersburg Bridge and McAlevy's Bridges 1 & 2, S.R. 0305 and S.R. 0026, Petersburg and McAlevy's Fort, Pennsylvania.** *Pennsylvania Department of Transportation (PennDOT), District 9-0.* Architectural Historian. Responsibilities included surveying historic resources, performing historical research, and preparing historic context. Baker performed preliminary and final engineering design and environmental studies for the replacement of Petersburg Bridge, McAlevy's Bridge No. 1 and McAlevy's Bridge No. 2, all of which are located in Huntingdon County, Pennsylvania, for the Pennsylvania Department of Transportation. Built in 1927, the existing two-span, 133-foot (41-meter) steel through girder Petersburg Bridge carries S.R. 0305 over Shavers Creek at Petersburg; built in 1933, the existing three-span, 118-foot (36-meter) reinforced concrete t-beam McAlevy's Bridge No. 1 carries S.R. 0026 over Standing Stone Creek at McAlevy's Fort; and, also built in 1933, the existing two-span, 88-foot (27-meter) reinforced concrete t-beam McAlevy's Bridge No. 2 carries S.R. 0026 over Laurel Run just north of McAlevy's Fort. These three structures are all being replaced with two-span prestressed concrete box beam bridges, with total lengths of 140-, 120-, and 120-feet (43, 37 and 37 meters), respectively.

**Professional Engineering and Surveying Services, Merrifield, Virginia.** *Fairfax Water (Formerly Fairfax County Water Authority).* Historian. Responsibilities included preparing historic context for archaeological site. Baker provided professional engineering and surveying services in conjunction with the planning, design, and construction of water mains and associated facilities throughout the Authority's service area. The primary assignment areas of the Basic Ordering Agreement (BOA) included water main relocation projects, Capital Improvement Program (CIP) projects, and surveying.

**Replacement of Seven Bridges over I-77 (CUY-77-11.11/VariouS), Cleveland, Newburgh Heights, and Cuyahoga Heights, Ohio.** *Ohio Department of Transportation, District 12.* Historian. Responsibilities included performing historical research and preparing historic context. Baker provided preliminary and final design engineering services for the replacement of seven bridges over I-77 south of Cleveland. The seven bridges consist of two local roadway bridges and five railroad bridges. The railroads involved include CSX and Newburgh and Southshore Railroad.

**Route 1 & 9 at Haynes Avenue - Bridge Replacement & Interchange Reconfiguration, Newark, New Jersey.** *New Jersey DOT.* Architectural Historian. Responsibilities included performing historical research and preparing historic content and documentation in accordance with Historic American Engineering Record (HAER) specifications. Baker managed the Route 1&9 /Haynes Avenue, Haynes Avenue Over Waverly Yards project. The project consisted of the integration of two projects that were intended to improve the traffic circulation on the Route 1&9 corridor in the project area, as well as eliminate substandard geometric and structural deficiencies.

**Appalachian Corridor D - Environmental Impact Statement, US 50 Belpre, OH to US 50/I-77, Parkersburg, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Architectural Historian. Responsibilities included documenting the history of architectural resources. The West Virginia Department of Transportation, Division of Highways (WVDOH) in conjunction with the Federal Highway Administration (FHWA), proposed to complete Appalachian Highway Corridor D from US 50 in Belpre, Ohio, to the vicinity of the US 50/ Interstate 77 (I-77) Interchange east of

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Parkersburg, West Virginia. The study area includes portions of Wood County, West Virginia; and Washington County, Ohio. The completed project will complete the "missing link" of Corridor D between West Virginia and Ohio and will require spanning the Ohio River.

**South Mahoning Slide Project, Parts I - IV, Armstrong County, Pennsylvania.** *Pennsylvania Department of Transportation, Central Office.* Historian. Performed historical research and prepared historic context. (2005)

**Aberdeen Proving Ground Facility Inspection, Aberdeen Proving Ground, Maryland.** *U.S. Army Corps of Engineers.* Architectural Historian. Performed facility history documentation for environmental clearance. (2003-2004)

**On-Call Engineering and Architectural Services, Wheeling, West Virginia.** *Ohio County Commission.* Architectural Historian. Responsibilities included researching history of historic-period farmstead. Baker was responsible for a number of diverse projects under this on-call contract including: Runway 16-34 Rehabilitation; Apron Rehabilitation; Runway 3-21 and Taxiways A and T Rehabilitation; Taxiways B, C and D, Crack Sealing and Seal Coat; Runway 34 Turnaround Taxiway; Aircraft Rescue and Fire Fighting (ARFF) and Snow Removal Equipment (SRE) Storage Building Improvements; Runway 3-21 Safety Area Improvement Feasibility Study; Security Fencing; Airport Access Roads; Runway 16-34 and Runway 3-21 NAVAIDS; and T-Hangar Taxiway Rehabilitation.

**Sheraden Park Section 219 Sewer Remediation Project, Pittsburgh, Pennsylvania.** *United States Army Corps of Engineers (USACE).* Architectural Historian. Performed historical research. (2002)

**Implementation of Preservation Zoning, Wheeling, West Virginia.** *Wheeling Historic Landmarks Commission.* Architectural Historian. Developed rehabilitation guidelines for two historic districts. (1996)

**The Mall at Robinson Peripheral Development, Allegheny County, Pennsylvania.** *Metro Property Developers.* Historian. Responsibilities included researching the history of a historic archaeological site and preparing historic context. Baker has been actively involved with a wide variety of engineering and site design tasks on this ever-expanding, large commercial development (approximately 700 acres) surrounding Robinson Towne Center.

**Two Bridges on Pennington-Washington Crossing Road (CR 546), Hopewell Township, Mercer County, New Jersey.** *Delaware Valley Regional Planning Commission and Mercer County.* Architectural Historian. Performed Phase IA cultural resources investigations. (1998)

**Luzerne County Bridges, Luzerne County, Pennsylvania.** *Pennsylvania Department of Transportation.* Architectural Historian. Surveyed historic resources, performed historical research, and prepared historic context. (2006)

**Ninth Street Drainage Improvement, Ocean City, New Jersey.** *City of Ocean City.* Architectural Historian. Surveyed historic resources, performed historical research, and prepared historic context. (2004-2005)

**I-78, Exit 15, Hunterdon County, New Jersey.** *New Jersey Department of Transportation.* Architectural Historian. Surveyed historic resources, performed historical research, and prepared historic context. (2004)

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**Avalon Boulevard Bridge, Avalon, New Jersey.** *Cape May County.* Architectural Historian. Surveyed historic resources, performed historical research, and prepared historic context. (2004)

**US-VISIT, American-Canadian border crossings in New York, Vermont, and New Hampshire.** *United States Department of Homeland Security.* Architectural Historian. Surveyed historic resources, performed historical research, and prepared historic contexts. (2004-2006)

**The Pointe at North Fayette Commercial Development, North Fayette Township, Pennsylvania.** *Forest City Enterprises, Inc.* Historian. Responsibilities included preparing historic context. Baker worked with Metro Property Developers from 1994 to 2004 on development of an approximately 175-acre parcel of land to be utilized as a commercial/retail area. The property is located in North Fayette Township, Pennsylvania and is known as "The Pointe at North Fayette." During the 10-year project, Baker provided a wide range of preliminary studies, permitting, conceptual site layout, final engineering design, and construction-phase services to facilitate development of the property.

**Archaeological & Intensive Architectural Survey of the Clifton Ave. Bridge & Nesbitt St. Bridge, Newark, New Jersey.** *New Jersey DOT.* Architectural Historian. Responsibilities included surveying historic resources, performing historical research, and preparing historic context. Baker conducted a Phase I archaeological survey and Intensive architectural survey within the Clifton Avenue and Nesbitt Street bridges over New Jersey Transit project area, City of Newark, Essex County, New Jersey.

**Route 530 South Pemberton Road, Burlington County, New Jersey.** *Delaware Valley Regional Planning Commission.* Architectural Historian. Responsibilities included surveying historic resources, performing historical research, and preparing historic context. Baker was awarded this roadway project to perform final design services for the reconstruction of 3 miles of this 4-lane arterial. The project will add a continuous center turn lane, full width shoulders, and intersection improvements with major cross roads. The project includes significant ROW acquisitions, traffic signal work, utility relocations, and complete drainage system.

**MOT-235-0.22 Interchange Modification.** *GPD Associates.* Architectural Historian. Responsibilities included surveying buildings and preparing historic context.

**Elkins Coal Reclamation - WVDEP, West Virginia.** *West Virginia Department of Environmental Protection.* Architectural Historian. Responsibilities included participating in HAER recordation of former coke production facility.

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### **Community Activities**

Co-founder of Lawrenceville Stakeholders, Inc., a non-profit community organization - Past President and Past Board Member.

### **Honors and Awards**

Certificate of Appreciation from Pittsburgh Mayor and Historic Review Commission for restoration of circa 1853 Greek Revival dwelling.

### **Presentations**

Various presentations on architectural history and research at libraries and to historical, arts, community, and student organizations, including:

- Mattress Factory,
- Squirrel Hill Historical Society,
- Sewickley Public Library,
- Allegheny Valley Library,
- Evans City Historical Society,
- Indiana University of Pennsylvania, Association of Student Designers,
- Chartiers Business and Professional Women's Club

### **Professional Affiliations**

National Trust for Historic Preservation  
Pittsburgh History & Landmarks Foundation

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# Jesse A. Belfast

## Architectural Historian

### General Qualifications

Mr. Belfast is a cultural resources specialist with experience in archival records research, deed research, HABS/HAER documentation, and facility history documentation for the environmental clearance of military buildings selected for future demolition. His project involvement at Baker includes preparing historic context reports and evaluating historic structures for National Register eligibility for projects across the United States as part of the U.S. Department of Homeland Security's US-VISIT initiative.

### Experience

#### **Shepherdstown Bridge, Jefferson County, WV;**

#### **Washington County, MD.** *West Virginia Department of Transportation, Division of Highways.*

Architectural Historian. Responsibilities included preparing Historic American Engineering Record (HAER) documentation for the James Rumsey Bridge. Also served as Author on this project. Baker was selected by the West Virginia Division of Highways (WVDOH) to provide all environmental and engineering services for the replacement of the James Rumsey Bridge. The bridge is a historic structure of Wichert Truss design originally constructed in 1937. It is listed on the National Register of Historic Places. The James Rumsey Bridge carries WV Route 480 and MD Route 34 vehicular traffic over the Potomac River. The bridge currently has sidewalks on both sides that carry pedestrians and bicyclists. The bridge also crosses over the C&O Canal National Park and National Register listed C&O Canal on the Maryland side. The town of Shepherdstown, West Virginia lies on the west side of the bridge. The replacement of the bridge is necessitated by its rapidly deteriorating condition. The AASHTO LRFD Bridge Design Specifications were used for this bridge design.

**US-VISIT Section 106 Compliance, Various Border Locations.** *U.S. Army Corps of Engineers, Fort Worth District.* Architectural Historian. Responsibilities included conducting archival research and files search, preparing historic context reports, and evaluating architectural resources for National Register eligibility at various border crossing sites. Also served as Author and Researcher on this project. Baker assisted the US-VISIT Program with their cultural resource compliance program. The project oversees all requirements of Section 106 of the National Historic Preservation Act. Baker assisted US-VISIT in developing a strategy for introducing this new agency to State Historic Preservation Officers (SHPOs), General Services Administration regional historic preservation officers, and Native American Tribes. In addition to strategy and agency coordination, Baker managed the completion of a cultural resources survey at 165 land ports of entry (LPOEs) on the northern and southern international borders. Baker also supported US-VISIT in developing relationships and communicating with the State Historic Preservation Officers in ALL Border States and thereby began the collection of one of the most comprehensive databases for historic and cultural resources at U.S. LPOEs.

**Route 52 Causeway, Somers Point and Ocean City, New Jersey.** *New Jersey DOT.* Architectural Historian. Responsibilities included preparing Historic American Engineering Record (HAER) documentation for the World War Memorial Bridge and conducting a comparative bridge study to guide

**Years with Baker:** 4

**Years with Other Firms:** 0

#### **Education**

Doctoral Studies, 2002, History, Carnegie Mellon University

M.A., 2001, History, Carnegie Mellon University

B.A., 1999, English, Duke University

#### **Licenses/Certifications**

Architectural Historian (36 CFR61)

Qualified

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context sensitive design of the replacement bridge. Also served as Researcher and Author on this project. The Route 52 Replacement project is approximately 2.8 miles (4.5 km) long from Route 9, in Somers Point, Atlantic County, to Bay Avenue in Ocean City, Cape May County. This project entailed the replacement of the causeway over Great Egg Harbor Bay, including four concrete bridges and roadways crossing Rainbow Islands and Garretts Island with a single fixed structure extending from Somers Point to Ocean City. The project also included the replacement of the Somers Point Circle with a signalized intersection and the widening of Route 52 from the existing 2 lanes to 4 lanes going through the business district.

**US-VISIT Program Management, GIS, and Environmental Support Services - Nationwide, Nationwide.** *Department of Homeland Security, US-VISIT.* Architectural Historian. Responsibilities included conducting archival research and files search, preparing historic context reports, and evaluating architectural resources for National Register eligibility at various border crossing sites. Also served as Author and Researcher on this project. Baker is providing program management and related planning, environmental, engineering design, and geospatial services supporting the mission of the Department of Homeland Security (DHS) in modernizing and improving the nation's immigration and border management system and thereby strengthening national security.

**I-69 Tier 2 Section 5 - EIS and Engineering Services, Bloomington, Indiana.** *Indiana Department of Transportation.* Architectural Historian. Responsibilities included conducting background research and oral history interviews, preparing historic contexts, and editing draft reports. Also served as Researcher and Editor on this project. Baker provided Tier 2 environmental and engineering services to the Indiana Department of Transportation for one of six sections of the planned I-69 corridor. Baker's section, Section 5, is located in Monroe and Morgan Counties, Indiana. Services included NEPA Environmental Impact Statement studies and documentation, Engineer's Report, and Public Involvement.

**Aberdeen Proving Ground Maryland - Facility Inspection, Aberdeen, Maryland.** *U.S. Army Corps of Engineers, Baltimore District.* Architectural Historian. Responsibilities included preparing building history documentation. Also served as Researcher on this project.

**Route 52 Bridge and Causeway, New Jersey.** *New Jersey Department of Transportation.* Architectural Historian. Responsibilities included preparing Historic American Engineering Record (HAER) documentation for the World War Memorial Bridge and conducting a comparative bridge study to guide context sensitive design of the replacement bridge. Also served as Researcher and Author on this project. Baker is currently managing the right-of-way pilot project. This project includes conducting deed and title searches early in the Preliminary Engineering Process. Early identification of property rights will improve plan quality.

**INS Service Center.** *US Dept of Justice - INS.* Architectural Historian. Responsibilities included conducting archival research and files search, preparing historic context reports, and evaluating architectural resources for National Register eligibility at various border crossing sites. Also served as Author and Researcher on this project.

**BPA US Visit Section 106, U.S. Army Corps of Engineers, Fort Worth District.** Architectural Historian, Author, Researcher. Responsibilities included conducting archival research and files search, preparing historic context reports, and evaluating architectural resources for National Register eligibility at various border crossing sites. Also served as Author and Researcher on this project.

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### **Community Activities**

Board of Directors, Ligonier Camp and Conference Center

Chair of Building Taskforce, First Presbyterian Church of Pittsburgh

### **Computer Expertise**

Microsoft Office

### **Continuing Education/Training**

"The Section 106 Essentials," Advisory Council on Historic Preservation, October 2006.

### **Seminars/Conferences**

Organization of American Historians Annual Meeting, Boston, Massachusetts, March 2004.

PennDOT Byways to the PastV: The Fifth Annual Conference on Historic Preservation and Transportation Projects, Indiana, and Pennsylvania, May 2004.

Young Preservationists Association of Pittsburgh Historic Preservation Conference. "Places & Spaces: The Regeneration of Preservation," Pittsburgh, Pennsylvania, September 2005.



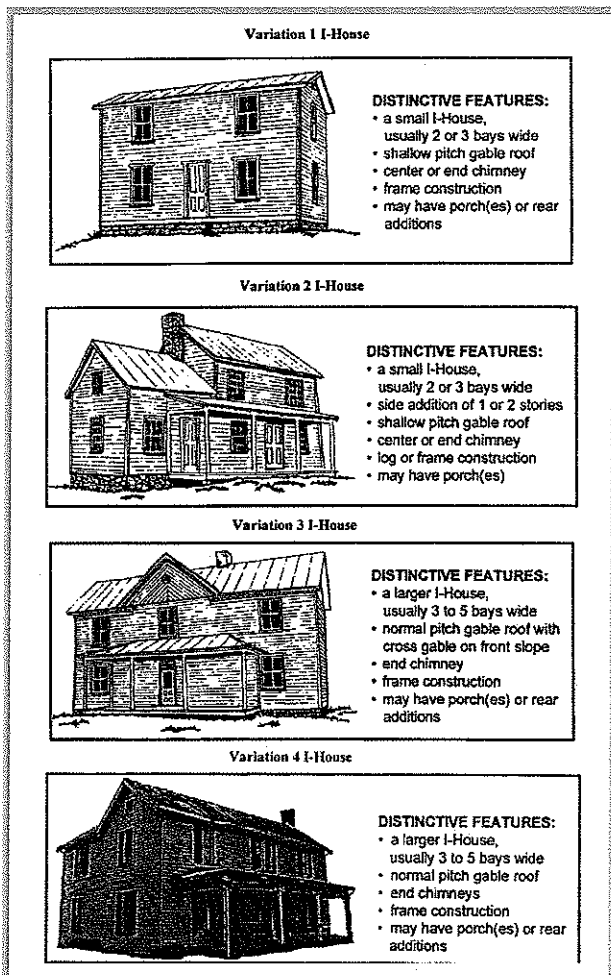
# Lessons Learned in Thematic Historic Resource Surveys: Vernacular Architecture within the Corridor H Project Area, Randolph, Tucker, Grant, and Hardy Counties, West Virginia

Part of any challenge in conducting large historic resource surveys is the ability to identify potential cultural, ethnic, temporal, spatial, and/or architectural themes or trends that serve to unify and exemplify a region's or group's cultural identity—both present and past. Whether it is resources linked by events of the Civil War or resources reflective of a single valley's rural agricultural development, Michael Baker Jr., Inc. (Baker) has the experience, breadth of knowledge, and skill to perform this kind of task professionally and expeditiously.

## Project Background

In 1996, during an intensive historic resources survey being conducted on behalf of the West Virginia Department of Transportation, Division of Highways (WVDOT/DOH) as part of the Appalachian Corridor H highway project, Baker was

tasked with the challenge to establish more definitive criteria for evaluating the significance of vernacular resources and their subsequent inclusion in the National Register of Historic Places. During the project, several regional vernacular architectural forms were documented. However, the form most commonly identified within the project area was the I-House – a folk house type with core elements consisting of a rectangular plan, side gable roof, two stories high, two rooms wide, and one room deep. This vernacular resource has its origins in the British Isles and is known to have spread from the eastern United States through the Mid-Atlantic region (e.g., southeastern Pennsylvania) and into the Upland South (i.e. Appalachia, including West Virginia). Examples in the United States are known from the eighteenth century, with construction continuing into the early twentieth



century. Studies within the Corridor H project area identified a set of four discrete I-House variations that were constructed during the second half of the nineteenth century and into the twentieth century (pictured above).

## Cultural Resources Services

- Early Coordination
- Section 106 Compliance
- NEPA Compliance
- Building & Land-Use Histories
- Historical & Archival Research
- Historic Architectural Studies
- Determinations of National Register Eligibility
- National Register Nominations
- HABS/HAER Recordation
- Predictive Modeling
- Archaeological Survey
- Archaeological Evaluation
- Archaeological Mitigation
- Artifact Analyses & Curation
- Statistical Analyses
- Cultural Resource Management Plans
- Programmatic Agreements
- Memoranda of Agreement
- Public Outreach

For additional information:  
[www.mbakercorp.com/cultural](http://www.mbakercorp.com/cultural)

**Baker**

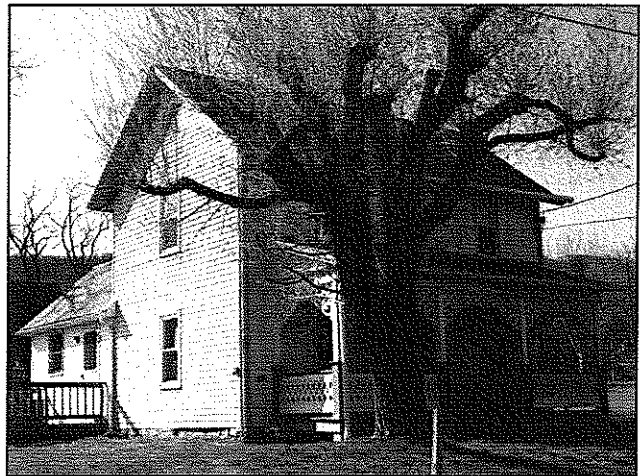
## Evaluation of Vernacular Resources

Among the keys to conceptualizing vernacular forms of architecture such as the I-House is understanding that such resources are intimately tied to local history and cultural patterns; and that as a result of this association, evaluation against a backdrop of the local built environment as well as a context of regional developmental trends is a necessity. In the case of vernacular architectural resources, for example, significance is typically related to their ability to reflect notable patterns in rural lifeways, local building traditions, and agricultural development, among other trends. Integral to such an evaluation is also determining what elements must be present for a building to exemplify a particular vernacular form.

As a means of assessing architectural integrity, Baker developed a vernacular resource integrity evaluation rating method that utilized a sliding scale. This rating method was based on the concept of defining essential physical features of vernacular resources (e.g., plan, fenestration, siding materials, foundation materials, chimney(s), window materials, roof materials, porch(es), stylistic details, and support buildings) and then evaluating those surviving features in the resource(s) under study. Use of this method allowed Baker to maintain consistency in evaluations throughout the Corridor H project area—with the awareness that a particular resource could still be

considered eligible even though its integrity rating fell at or immediately below the threshold of eligibility.

The rating scale was applied to all vernacular resources – particularly I-Houses – in the Corridor H project area. Its practical application was acknowledged by the West Virginia Division of Culture and History to be a useful means of evaluating integrity in frame construction, turn-of-the-twentieth-century, and unstyled buildings found in the Corridor H project area.



Vernacular Building Integrity Evaluation

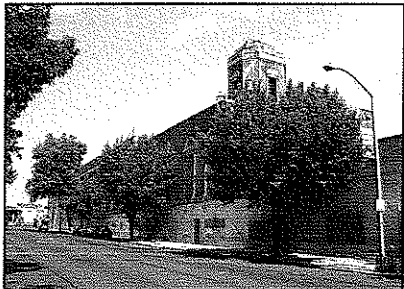
| Essential Features    | Evaluation Options                   | Rating | Facade Rating |
|-----------------------|--------------------------------------|--------|---------------|
| Plan                  | original                             | 10     | 10            |
|                       | pre-1947 additions                   | 10     |               |
|                       | post-1947 additions on rear          | 5      |               |
|                       | additions on front or side           | 0      |               |
| Foundation Materials  | original                             | 5      | 5             |
|                       | minor alterations                    | 3      |               |
|                       | substantial deterioration            | 3      |               |
|                       | major alterations                    | 0      |               |
| Siding Materials      | original                             | 7      | 7             |
|                       | sympathetic alterations              | 3      |               |
|                       | substantial deterioration            | 3      |               |
|                       | unsympathetic alterations            | 0      |               |
| Chimney               | original                             | 5      | 5             |
|                       | not ever present                     | 5      |               |
|                       | minor alterations                    | 3      |               |
|                       | substantial deterioration            | 3      |               |
|                       | major alteration                     | 0      |               |
| Window Materials      | removed                              | 0      | 5             |
|                       | original                             | 5      |               |
|                       | covered                              | 4      |               |
|                       | substantial deterioration            | 4      |               |
|                       | replaced                             | 0      |               |
| Fenestration          | missing                              | 0      | 10            |
|                       | original                             | 10     |               |
|                       | minor alterations                    | 5      |               |
| Roof Materials        | major alterations                    | 0      | 5             |
|                       | original                             | 5      |               |
|                       | sympathetic replacement              | 4      |               |
|                       | substantial deterioration            | 4      |               |
| Porch(es)             | unsympathetic replacement            | 0      | 5             |
|                       | original                             | 3      |               |
|                       | not ever present                     | 5      |               |
|                       | sympathetic alterations              | 3      |               |
|                       | substantial deterioration            | 3      |               |
|                       | post-1947 sympathetic porch          | 3      |               |
| Stylistic Details     | post-1947 unsympathetic porch        | 0      | 5             |
|                       | original                             | 5      |               |
|                       | not ever present                     | 5      |               |
|                       | substantial deterioration            | 3      |               |
| Support Buildings     | removed                              | 0      | 3             |
|                       | original                             | 3      |               |
|                       | not ever present                     | 3      |               |
|                       | original and post-1947               | 2      |               |
|                       | substantial deterioration            | 2      |               |
| TOTAL RATING POSSIBLE | post-1947 alteration or construction | 0      | 60            |

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## *Nomination of Resources to the National Register of Historic Places: The Borden's Farm Products Company Pasteurizing and Distributing Plant, Newark, New Jersey*

Nomination of a historic resource to the National Register of Historic Places (NRHP) demands uniformity and thoroughness. The nomination process must take into consideration issues of integrity of the resource(s) involved (i.e., location, design, setting, materials, workmanship, feeling, association) as well as issues of historical significance—whether it be through association with an historic event or activity (Criterion A), through association with an important person (Criterion B), if the historic resource(s) in question is/are distinctive in design or physical characteristics (Criterion C), or if that resource possesses the potential to add important information about prehistory or history (Criterion D). Baker's fully-trained staff of cultural resource professionals has a long history of considering these requirements and completing the necessary research and attendant documentation for nominating properties to the NRHP.



### *Project Background*

In August 2007, Michael Baker Jr., Inc. (Baker) was tasked with completing a formal National Register Nomination form for the former Borden's Farm Products Company Pasteurizing and Distributing Plant (Borden's Plant), in Essex County, City of Newark, New Jersey, on behalf of the Department of Transportation, State of New Jersey (NJDOT). Prior to Baker's involvement, the Borden Plant had been determined eligible for listing in the NRHP (NJHPO Opinion, March 19, 1996) under Criterion A for its association with advances in the dairy processing industry in early twentieth century Newark, and under Criterion C as an intact example of an early-twentieth century industrial facility with unique Art Deco-inspired detailing.

### *Highlighting Significance*

The former Borden's Plant is an industrial building that is located at the northeast corner of Orange and Nesbit streets in the city of Newark. At 114,500 square feet, the Borden's Plant is an irregularly shaped building, primarily two stories in height, with a raised basement that becomes a full additional story near the building's east end as a result of the gentle slope of Orange Street. The building's construction system is of reinforced concrete, while its elevations are clad in common bond brick. The building is set upon a reinforced concrete foundation and measures four bays along its Nesbit Street elevation and approximately 26 bays along Orange Street. These two primary elevations display elements related to the early years of Art Deco design (i.e., late 1920s - 1930s) (e.g., Longstreth 1987: 46).

The Borden's Plant was designed by prominent Newark architect William E. Lehman (1874-1951) in association with his younger brother, David J. Lehman. William E. Lehman was a Newark native who graduated from Cornell University's

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- Statistical Analyses
- Cultural Resource Management Plans
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- Memoranda of Agreement
- Public Outreach

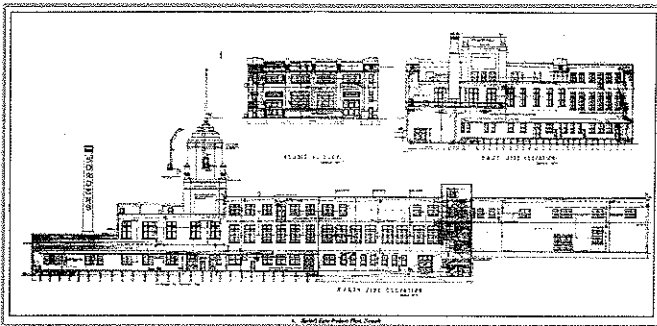
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School of Architecture in 1895 and began practicing architecture in Newark in 1896. In 1897, Lehman authored the book *City and Suburban Homes*, a guide to the builder providing plans and specifications for residential buildings (Mucchetti 1979: 6). Lehman, in his early career, designed buildings to be built mainly of wood and brick. In 1906, however, Lehman began creating designs calling for the use of “armored concrete,” which consisted of pouring concrete into a wooden framework, the core of which was reinforced with iron rods. A precursor of today’s reinforced concrete, armored concrete would play an integral role in Lehman’s design of the Borden’s Plant.

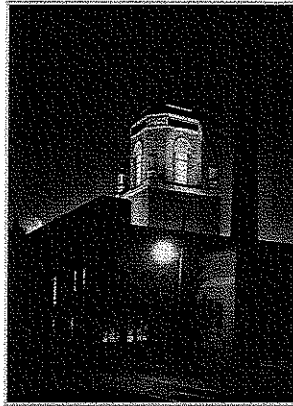
Lehman is credited with many architectural accomplishments including, among others, the Federal and Post Office Building (Newark), the Medical Tower Building for Physicians and Dentists (now Lincoln Park Towers) (Newark), the United States Trust Company (Newark), the Harrison Street Apartments (East Orange); the William L. Blanchard residence (South Orange); the Maplewood Theatre (Maplewood); and the Loveman, Joseph and Loeb Department Store in Birmingham, Alabama (Lehman Architecture Group 2007; Cinema Treasures; Emporis Buildings 2007; Mucchetti 1979: 5, 7).

As designed by William E. Lehman and David J. Lehman, the primary elevations of the Borden’s Plant display what has been termed “the initial phase of Art Deco design, popular during the late 1920s and the 1930s” (Longstreth 1987: 46). Specifically, the Art Deco influence is shown in the use of regularly spaced piers that extend above the plant façade to punctuate the roofline, the placement of fenestration between the piers, the use of a terra cotta cornice and pier caps, and an elaborate brick and terra cotta tower. The uppermost section of each pier, between the belt course and the cornice, features a terra cotta guilloche. The central section of the Orange Street elevation, with its terra cotta trimmed arcades, engaged roped columns, and bas-relief panels bear resemblance to façade ornamentation of some early motion picture theaters, a familiar building type to Lehman’s architectural practice.



The building, in both its exterior appearance and interior appointments, exemplified Borden’s gratitude and commitment to the public, as well as its desire to create a focal point of attention and admiration. The exterior of the building incorporated rich terra cotta ornamentation blending traditional designs with patriotic symbolism, milk

bottles, and farm animals. Punctuating the Newark skyline, a brick and terra cotta tower rising 120 feet above the street incorporated terra cotta lanterns, an elaborate terra cotta frieze interspersed with panels carrying the



Borden’s name, and a stepped roof cap that terminated in a decorative flagpole from which a “Borden’s” pennant was proudly displayed.

Functionally, the tower served to conceal a water tank, which supplied the building’s gravity fed water system.

Aesthetically, however, the gleaming terra cotta tower, which may have rested more comfortably atop one of Lehman’s theater designs, represented the crowning

touch of Borden’s quest to display its standing in the community—a theory given more credibility as “facilities for brilliant night lighting of the tower and building” were provided in the design (*Newark News* 1928a).

Architectural reviews of the Borden’s Plant appeared shortly after its opening in trade magazines such as *The American Architect*. The publication’s July 20, 1928 edition featured a four-page article describing the building and its processing capabilities. Milk, as the article noted, “is an important commodity in the public eye. For this reason, it was determined that the Newark building should avoid too great an appearance of a factory, and yet be a simple and dignified structure.” (*The American Architect* 1928:125)

The Borden Company occupied the Newark plant until approximately 1970. Presently, the building is vacant and is owned by the City of Newark. Although most of the plant’s window openings have been filled, the building has experienced no demolition or additions and thus retains its original proportions, scale, and massing. It retains a fair level of integrity of materials, workmanship, and design with its rich terra cotta Art Deco-inspired ornamentation along the plant’s principal elevations, as well as its massive stepped tower. The building retains its original location and its setting within an urban industrial/residential neighborhood is also fairly intact. As such, the Borden’s Farm Products Building still conveys the feeling and association of a 1920’s industrial facility with unique Art-Deco inspired detailing.

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## US-VISIT SECTION 106 COMPLIANCE Various Border Locations



The US-VISIT Program, within the DHS Office of Facilities Policy & Planning, contracted Baker to assist with their cultural resource compliance program. This project oversees all requirements of Section 106 of the National Historic Preservation Act. Baker assisted US-VISIT in developing a strategy for introducing this new agency to State Historic Preservation Officers (SHPOs), General Services Administration (GSA) regional historic preservation officers, and Native American Tribes. A Baker representative

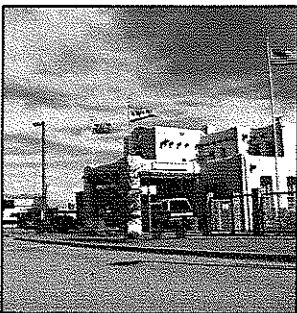
accompanied US-VISIT to meetings with these entities and assisted with all associated correspondence.

In addition to strategy and agency coordination, Baker managed the completion of a cultural resources survey at 165 land ports of entry (LPOEs) on the northern and southern international borders. There are currently undertakings at only five of the ports; the others were surveyed in order to facilitate possible future improvements at the port facilities. This unusual step of conducting historic resource surveys when there is no scheduled undertaking meant that US-VISIT worked with the SHPOs to inform them of the broad nature of the surveys and to facilitate future consultation, should it become necessary. Fieldwork was conducted by personnel from Baker, and five subconsultants. The field crews recorded all potential historic properties and prepared documents, reporting on the survey results. Baker reviewed all reports to ensure consistency prior to submitting to the client.



The historic structure information was transmitted to the Baker team of Historic Preservation Specialists. In conjunction with their evaluation of the structures, the Historic Preservation Specialists developed fifteen state historic contexts, a national historic context for border crossing facilities, as well as determinations of eligibility to the National Register of Historic Places for each surveyed resource. An Access database was developed to manage the survey information, which is capable of producing state inventory forms for the fifteen states in which the survey was conducted. Baker kept the client informed on the progress of the surveys and reports. This was done through bi-weekly updates and regular uploads to the US-VISIT document website.

The field survey reports, historic structure evaluations, and national context were submitted to SHPOs nationwide for eligibility and adequacy concurrence. These documents then were available as US-VISIT developed projects that would potentially affect cultural resources. Baker also supported US-VISIT in developing relationships and communicating with the State Historic Preservation Officers in all border states and thereby began the collection of one of the most comprehensive databases for historic and cultural resources at U.S. LPOEs. Baker worked very closely with GSA in assisting US-VISIT in meeting its obligations under the NHPA and also assisted in the development of the Memorandum of Understanding between GSA and US-VISIT regarding historic properties.



The US-VISIT project was challenging and exciting for Baker as it utilized all facets of the firm's expertise in cultural resources management, ranging from experience evaluating historic buildings and developing a national understanding of their past use, to conducting fieldwork in multiple states and ensuring consistency in the collected data.

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