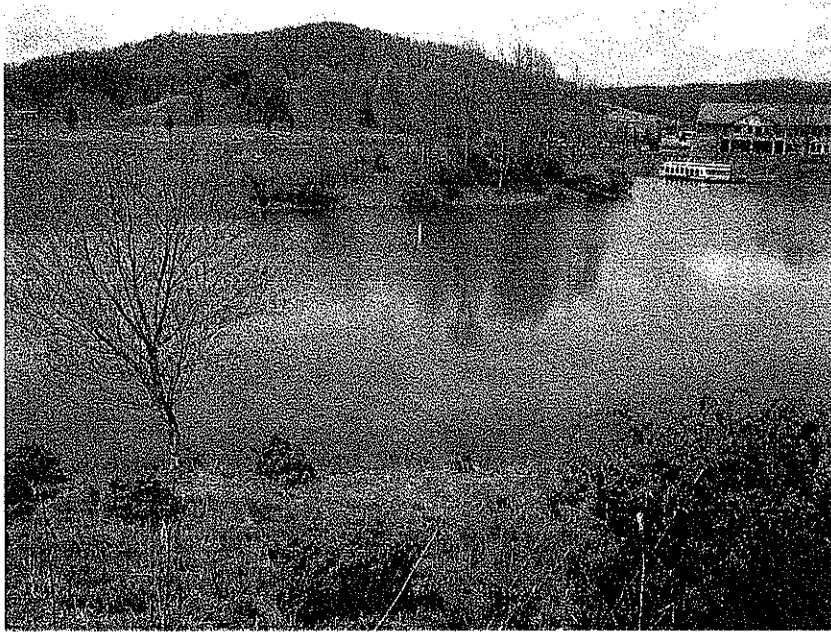


# Division of Natural Resources Stonewall Jackson State Park

Pedestrian Boardwalk System  
May 12, 2009

EXPRESSION OF  
INTEREST



RECEIVED

2009 MAY 11 PM 12:34

WW PURCHASING  
DIVISION





ARCHITECTS • ENGINEERS • SURVEYORS

May 12, 2009  
Purchasing Division  
2019 Washington Street, East  
Charleston, WV 25305-0130

ATTN: Mr. Frank Whittaker

**RE: THE BOARDWALK PROJECT FOR STONEWALL RESORT  
RFQ NUMBER DNR209169**

### INTRODUCTION

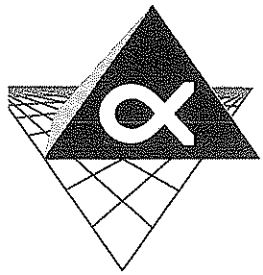
The proposed project to connect the campground with the lodge at the Stonewall Resort in the Stonewall Jackson State Park in Roanoke, WV, will pose some interesting challenges to the design team. It will also give the owners the chance to make creative decisions that will enhance the image of the resort for many years to come. Alpha Associates, Incorporated, is uniquely qualified to ensure the project not only connects the two separate areas of the resort, it will do so in a cost effective, aesthetically pleasing fashion.

The campground and the lodge are separated by two reaches of the lake with a hilly area of land in between. In order to cross these obstacles, a project plan including water crossings and terrain accommodating walkways will be required.

### BACKGROUND

Alpha has a long history of working with both types of the design elements that will be required to complete this project successfully in a manner that will enhance the functionality of the facilities while at the same time adding one more signature feature to the scenic luxury resort.

Alpha has been designing successful bridge projects for decades. The members of the team that will work on this project have an incredibly diverse bridge design background. They have completed historical restorations of two single lane wood truss covered bridges supported by cut stone abutments. They have also completed designs for massive highway bridges up to five lanes wide and 1700 feet long. In between these two extremes are many projects of all shapes and sizes including a 150' pedestrian bridge for the U.S. Forest Service at Seneca Rocks. Most recently, Alpha has completed a design study for a new pedestrian and bicycle crossing over Decker's Creek for the City of Morgantown. For this project a beautiful prefabricated structure was proposed. It will be extremely cost effective, quick to erect, and will serve the city



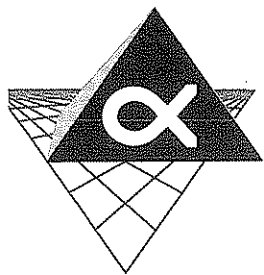
well for decades to come. No matter the size or type of the project, the team has always strived for attention to detail, constructability, cost effectiveness and designs that fit well with the surrounding site.

Alpha also has a long history of working with the West Virginia State Park system, as well as other park systems, on a variety of projects. We designed trails, an amphitheater, camping areas, roadways and sports fields for the North Fork Hughes River project. Alpha also completed a master plan for the Mylan Park complex near Morgantown, including trails, sports fields and other site work. We have updated and adapted this master plan for a changing and evolving facility through the years. Our work also includes the amphitheater roof for the Hazel Ruby McQuain riverfront park in Morgantown, as well as a new vehicle bridge for Camp Muffly. Our diverse park work includes design work on two state park pools, one at Jackson's Mill and one at Tomlinson Run. We are also currently overseeing the construction of two Department of Natural Resources projects that we designed for the Division of Natural Resources. One of these is the Berkeley Springs Bath House project and the other is the Cass Scenic Railroad Clubhouse Renovation project.

### **PROPOSED PROJECT APPROACH**

The proximity to the lodge and the scenic nature of the site will require that this project be completed relatively quickly and with as little impact on the environment as possible. Alpha believes that both of these goals can be attained with a combined approach. For the water crossings, we propose using aesthetically pleasing prefabricated structures. For the portions of the connecting walkways that will traverse hillsides, we propose using pile supported boardwalk style walkways. Where possible, at grade walkways finished with pea gravel or pavers could be used to connect the other features economically. Wide spacious paths with grades suitable for meeting all handicapped accessible requirements would be maintained from one end of the project to the other. Clearance for small water crafts, such as canoes and paddle boats, could be easily provided beneath these structures.

The two water crossings vary in length. The shorter of these two crossings is from the lodge to the opposite hillside. This crossing appears to be approximately 100 feet long and could be crossed with a single span prefabricated bridge in a variety of styles. The longer crossing is between the campground and the opposite hillside. This crossing appears to be approximately 200 feet across. Some styles of prefabricated pedestrian truss bridges can span lengths of up to 250 feet. Prefabricated pedestrian cable stayed pedestrian bridges can span even further but represent a significant cost upgrade. However, spanning this distance with a single span may not be the best answer. This approach would likely require a bigger crane and more false work since the bridge



would likely be delivered in four or five sections. Another alternative would be to place a pile supported pier structure in the middle of the lake and make this crossing with two single span bridges connected at the pier structure. This would probably be more economical in terms of prefabricated structure costs, crane costs and amount of false work required. Another added bonus to this type of approach would be a greater variety of bridge styles to choose from.

This could also work better aesthetically because all three bridge sections could have very similar proportions.

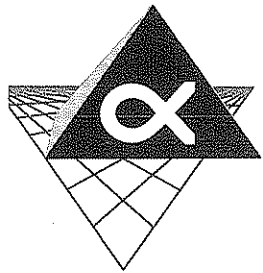
Prefabricated bridge structures are an incredibly economical way to complete projects quickly and with as little disruption as possible on a site. Once the supporting piers and abutments are constructed, the completely finished prefabricated bridge sections are brought in on trucks. These sections are lifted straight off the trucks and immediately set in place using the same crane on the same day. As soon as the structures are bolted together and any required false work is removed, the bridge is immediately ready for use. A wide variety of pedestrian bridge styles are available locally from Continental Bridge, a subsidiary of Contech. These bridges are designed to meet all applicable structural, safety and accessibility codes. For the purposes of examining available styles, examples of their previous pedestrian bridge projects can be viewed at [www.contech-cpi.com](http://www.contech-cpi.com).

To connect the two water crossings, and traverse the connecting hillside, we propose using a timber pile supported boardwalk style walkway. The piles for this walkway could be installed on the sloping ground, eliminating the need to use heavy equipment to cut an unsightly bench into the hillside. This would also eliminate the need to install any retaining wall structures along the path and allow for construction of the walkway at grades that meet handicapped accessible walkway requirements while removing as little of the existing vegetation as possible. These boardwalk style walkways could also be used to connect the ends of the bridge crossings to the lodge and the campground if the owners so desire.

## **SUMMARY**

Alpha Associates, Incorporated, can work with you to successfully complete a project that will satisfy your needs and enhance the value and atmosphere of the Stonewall Resort in the Stonewall Jackson State Park.

We believe that the owners of a project are not only clients, but that they are integral members of the design team. For this reason, the design of your project would involve



constant communication with you during all phases of the project, from schematic design through the completed construction. This will ensure that everyone, from the owner's representatives to the drafting technicians, continues in a unified motion towards a shared vision of a successful project. We look forward to helping you make that successful project a reality.

Sincerely,

ALPHA ASSOCIATES, INCORPORATED

A handwritten signature in black ink, appearing to read "Richard A. Colebank". The signature is fluid and cursive, with a long, sweeping underline.

Richard A. Colebank, PE, PS  
President and COO  
[rcolebank@alphaaec.com](mailto:rcolebank@alphaaec.com)



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:  
 DNR209169

PAGE:  
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF:  
 FRANK WHITTAKER  
 304-558-2316

VENDOR

RFQ COPY  
 TYPE NAME/ADDRESS HERE

SHIP TO

DIVISION OF NATURAL RESOURCES  
 STONEWALL JACKSON STATE PARK  
 ATTN: PARK SUPERINTENDENT  
 ROUTE 1, BOX 0  
 ROANOKE, WV  
 26423 269-0523

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
04/13/2009				

BID OPENING DATE: 05/12/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-00-00-001		
ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL  THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF NATURAL RESOURCES IS SOLICITING EXPRESSIONS OF INTEREST FOR ARCHITECTURAL AND ENGINEERING SERVICES FOR A TIMBER PILE-SUPPORTED PEDESTRIAN BOARDWALK SYSTEM FOR STONEWALL RESORT STATE PARK LOCATED IN ROANOKE WV, PER THE ATTACHED SPECIFICATIONS.  TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE WEST VIRGINIA PURCHASING DIVISION VIA FAX AT 304-558-4115 OR VIA EMAIL AT FRANK.M.WHITTAKER@WV.GOV. DEADLINE FOR TECHNICAL QUESTIONS IS APRIL 22, 2009 AT 4:00 PM. ALL TECHNICAL QUESTIONS RECEIVED, IF ANY WILL BE ANSWERED BY ADDENDUM AFTER THE DEADLINE.  EXHIBIT 10  ADDENDUM ACKNOWLEDGEMENT  I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.  ADDENDUM NOS. :  NO. 1 ..... NO. 2 .....						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Frank Whittaker</i>	TELEPHONE 304-296-8216	DATE 05-08-09
TITLE President and COO	FEN 55-0516286	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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

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RFQ NUMBER:  
 DNR209169

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ADDRESS CORRESPONDENCE TO ATTENTION OF:  
 FRANK WHITTAKER  
 304-558-2316

RFQ COPY  
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DIVISION OF NATURAL RESOURCES  
 STONEWALL JACKSON STATE PARK  
 ATTN: PARK SUPERINTENDENT  
 ROUTE 1, BOX 0  
 ROANOKE, WV  
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04/13/2009				

BID OPENING DATE: 05/12/2009 BID OPENING TIME: 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
NO. 3						
NO. 4						
NO. 5						
<p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p>						
				SIGNATURE		
Alpha Associates, Incorporated				COMPANY		
May 8, 2009				DATE		
REV. 11/96						
BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.						
REV. 1/2005						
NOTICE						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *Frank Whittaker* TELEPHONE: 304-296-8216 DATE: 05-08-09  
 TITLE: President and COO FEIN: 55-0516286 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
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# Request for Quotation

RFQ NUMBER  
 DNR209169

PAGE  
 3

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 FRANK WHITTAKER  
 304-558-2316

VENDOR

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 TYPE NAME/ADDRESS HERE

SHIP TO

DIVISION OF NATURAL RESOURCES  
 STONEWALL JACKSON STATE PARK  
 ATTN: PARK SUPERINTENDENT  
 ROUTE 1, BOX 0  
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04/13/2009				

BID OPENING DATE: 05/12/2009 BID OPENING TIME: 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION            PURCHASING DIVISION            BUILDING 15            2019 WASHINGTON STREET, EAST            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: 44</p> <p>REQ. NO.: DNR209169</p> <p>BID OPENING DATE: 05/12/09</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:            304-296-8216</p> <p>PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT CONCERNING THIS QUOTE:            Richard A. Colebank, PE, PS</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *[Signature]* TELEPHONE: 304-296-8216 DATE: 05-08-09

TITLE: President and COO FEIN: 55-0516286 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'





State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
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# Request for Quotation

RFQ NUMBER
DNR209169

PAGE
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FRANK WHITTAKER 304-558-2316

VENDOR

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DIVISION OF NATURAL RESOURCES  
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04/13/2009				

BID OPENING DATE: 05/12/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
***** THIS IS THE END OF RFQ DNR209169 ***** TOTAL:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>[Signature]</i>	TELEPHONE 304-296-8216	DATE 05-08-09
TITLE President and COO	FEIN 55-0516286	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

STATE OF WEST VIRGINIA  
Purchasing Division**PURCHASING AFFIDAVIT****VENDOR OWING A DEBT TO THE STATE:**

*West Virginia Code* §5A-3-10a provides that: 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 owed is an amount greater than one thousand dollars in the aggregate.

**PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:**

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code*. The vendor **must** make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code* and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the *West Virginia Code* may take place before their work on the public improvement is begun.

**ANTITRUST:**

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

**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:**

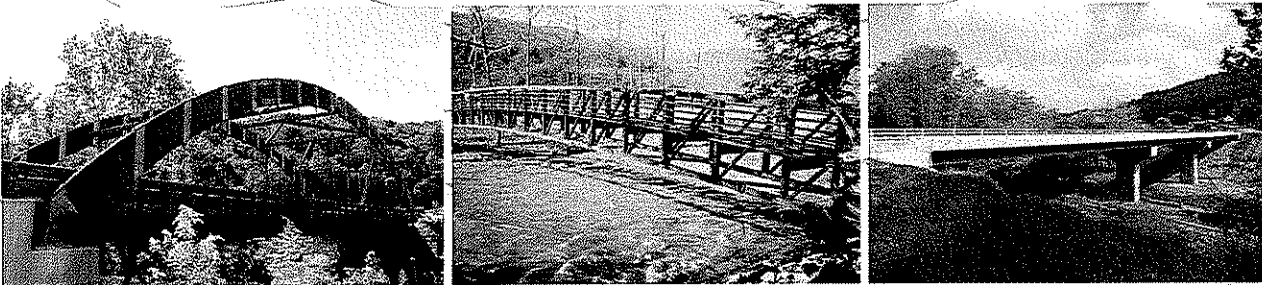
The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.

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

Vendor's Name: Alpha Associates, Incorporated  
Authorized Signature: [Signature] Date: May 8, 2009

**Firm Profile**ALPHA ASSOCIATES,  
INCORPORATED  
2009**Firm Profile**

Alpha Associates, Incorporated

**Firm Name:** Alpha Associates, Incorporated**Corporate Office:** 209 Prairie Avenue  
Morgantown, West Virginia 26501**Eastern Regional Office:** 535 West King Street  
Martinsburg, West Virginia 25401**Incorporated:** 1969; Morgantown, West Virginia**Firm Principals:** Richard A. Colebank, PE, PS; President and COO  
Richard W. Klein, PE, PS; Chairman and CEO  
William A. Atwell, Jr., PE; Senior Vice President  
James A. Davison, AIA; Vice President  
Charles B. Luttrell, PE; Principal  
Steven V. Buchanan, PE, PS; Principal  
Matthew S. Breakey, AIA; Principal  
Charles B. Branch, PE; Principal**Number of Employees:** 35 Employees

Alpha Associates, Incorporated was established in 1969 and since that time has completed hundreds of projects throughout Morgantown and the state of West Virginia. Alpha's Corporate Office is located in Morgantown with our Eastern Regional Office located in Martinsburg.



ARCHITECTS • ENGINEERS • SURVEYORS

## Transportation Case Studies

### Project Description

#### **Seneca Rocks Footbridge** **Pendleton County, WV**

This bridge is located in the Monongahela National Forest. This 150-foot span pedestrian bridge provides visitor access to Seneca Rocks. The structure crosses the North Fork of the South Branch of the Potomac River.

#### At A Glance...

- 1 *Client:*  
US Forest Service
- 2 *Location:*  
Pendleton County,  
WV
- 3 *Completion Date:*  
1988
- 4 *Size:*  
150 Feet
- 5 *Construction Cost:*  
\$200,000



## Transportation Case Studies

### Project Description

#### **West Buckeye Bridge Blacksville, WV**

The innovative West Buckeye Bridge near Blacksville, WV, was chosen over a conventional design for this site for aesthetic reasons. The desire for a more unique structure, near the historic Mason Dixon Park, combined with the opportunity to access available federal funding for innovative structures, resulted in the current design.

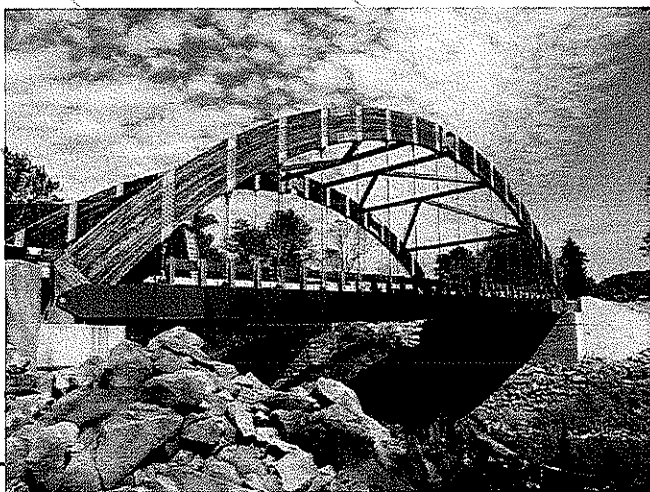
Alpha Associates, Incorporated, was responsible for design of the site work including all right of way plans, the substructures, the steel tie beams and the steel transverse deck beams. Alpha was also responsible for coordination of all of the different design teams, coordination of the different elements and suppliers, and the final completed design.

The final design called for a pair of three-pinned, tied arches with the deck structure suspended below. The arches were designed with fiber reinforced glued laminated members. The tie beams and transverse deck beams were designed using high performance steel. The deck of the bridge was designed to be constructed of fiber reinforced polymer panels.

Alpha Associates, Incorporated received the silver award for this project at the West Virginia Engineering Excellence Awards Competition on October 14, 2003.

#### **At A Glance...**

- 1 *Client:*  
West Virginia  
Division of Highways
- 2 *Location:*  
Blacksville, WV
- 3 *Completion Date:*  
2003
- 4 *Size:*  
45 Meters



## Transportation Case Studies

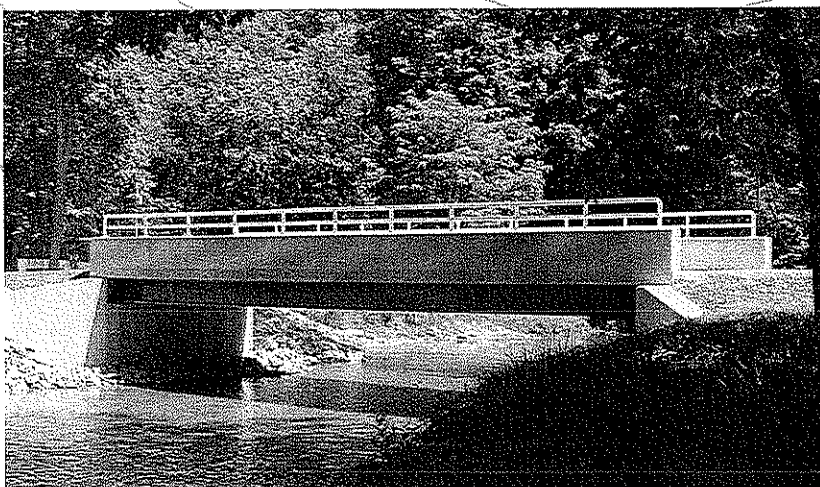
### Project Description

### Camp Muffly Bridge Replacement Morgantown, WV

Alpha Associates, Incorporated, completed a replacement bridge design for the Camp Muffly 4-H Camp near Morgantown, WV. The design was completed for the Camp Muffly Operating Board. The original bridge at the site was severely deteriorated and in need of replacement. Alpha Associates, Incorporated, designed the new bridge to be cost effective, easy to construct and require low maintenance. The new bridge is 41'-4" long and 14'-0" wide. The superstructure of the replacement bridge consists of epoxy coated steel beams with custom designed precast panels and cast in place parapets. The abutments of the bridge are semi-integral abutments constructed of cast-in-place concrete. The bridge provides safe, high capacity access to a portion of the camp that would otherwise be isolated on the other side of the stream.

#### At A Glance...

- 1 *Client:*  
Monongalia County  
Commission
- 2 *Location:*  
Morgantown, WV
- 3 *Completion Date:*  
2004
- 4 *Size:*  
41 Feet
- 5 *Construction Cost:*  
\$140,000

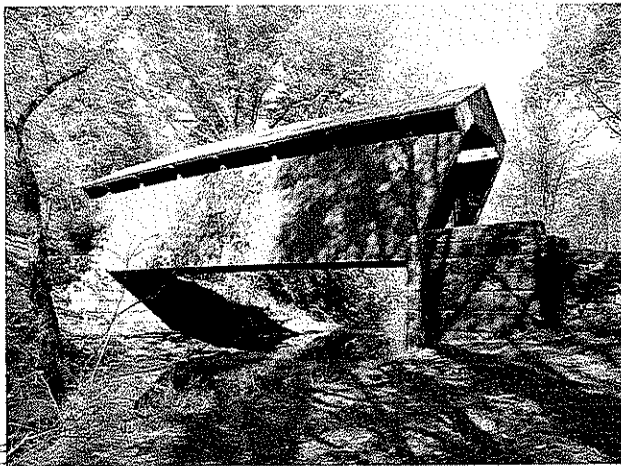


## Bridge/Restoration Case Studies

### Project Description

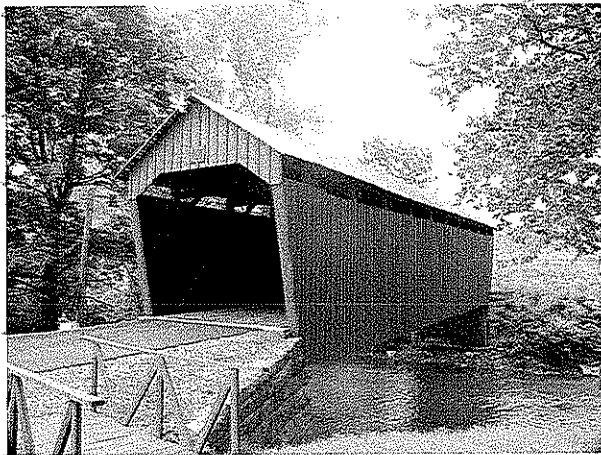
#### **FLETCHER COVERED BRIDGE, Harrison County, WV**

This project included a covered bridge restoration design for a bridge that crosses over Ten Mile Creek. Work for this bridge restoration project was performed for the West Virginia Division of Highways.



#### **SIMPSON CREEK COVERED BRIDGE, Marion County, WV**

This project included a covered bridge restoration design for a bridge that crosses over Simpson Day Creek. Work for this bridge restoration project was performed for the West Virginia Division of Highways.



## South High Street Bridge

BRIDGE/HIGHWAY  
DESIGN  
2001

PROJECT

### Transportation Case Studies

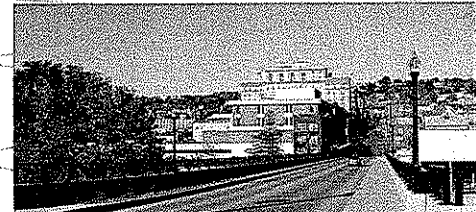
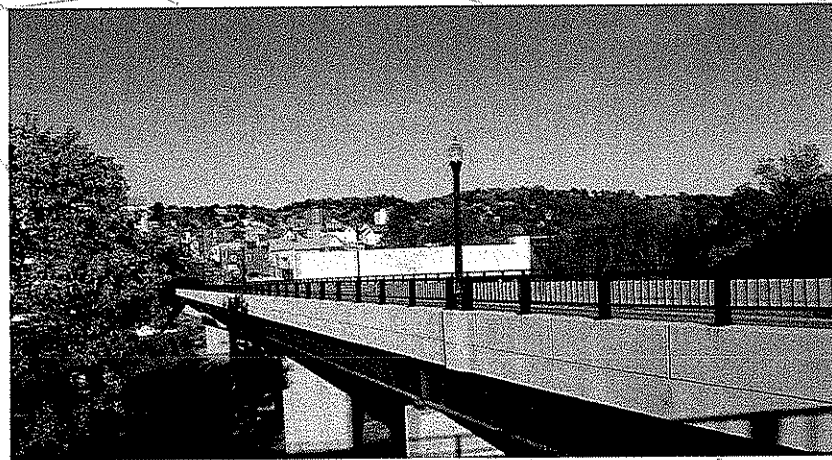
#### Project Description

#### South High Street Bridge Morgantown, WV

Alpha Associates, Incorporated completed the replacement bridge design for the South High Street Bridge in Morgantown. The design was completed for the West Virginia Division of Highways. The original bridge, constructed in 1926, was severely deteriorated and in need of replacement. Alpha Associates, Incorporated was chosen to design a new structure combining the best of available new technology with an historical feel suited to the existing neighborhood. The technological result is a new 540-foot long jointless bridge constructed of weathering steel girders with a composite concrete deck. In order to satisfy the historical requirements, a custom ornamental steel handrail was combined with antique reproduction streetlamps.

#### At A Glance...

- 1 *Client:*  
West Virginia  
Division of Highways
- 2 *Location:*  
Morgantown, WV
- 3 *Completion Date:*  
2001
- 4 *Size:*  
540 Feet
- 5 *Construction Cost:*  
\$3.62 Million



ARCHITECTS • ENGINEERS • SURVEYORS



## Recreation Case Studies

### Project Description

#### Hazel Ruby McQuain Riverfront Park Amphitheater Roof Morgantown, WV

The Amphitheater Roof for Hazel McQuain Ruby Park, located in the Wharf District of Morgantown, had very simple goals. The structure was to provide a sun and rain shade while allowing a view of the River beyond. Alpha Associates, Incorporated responded with a simple geometric form that incorporates a complex structural solution. The roof is arched in two directions and anchored to the ground at four points. The grounding points are round concrete columns that echo the concrete bridge abutments of the Westover Bridge in the vicinity of the Park. The arches of the roof are laminated wood beams connected to the concrete columns with steel plates and tension rods. The wood beams and roof decking, visible from the underside of the roof, are a structural solution as well as an aesthetic tribute to the past industrial age exhibited in the various warehouses and industrial buildings that composed the Wharf District area in the late 19<sup>th</sup> and early 20<sup>th</sup> Century.

#### At A Glance...

1 Client:  
City of Morgantown

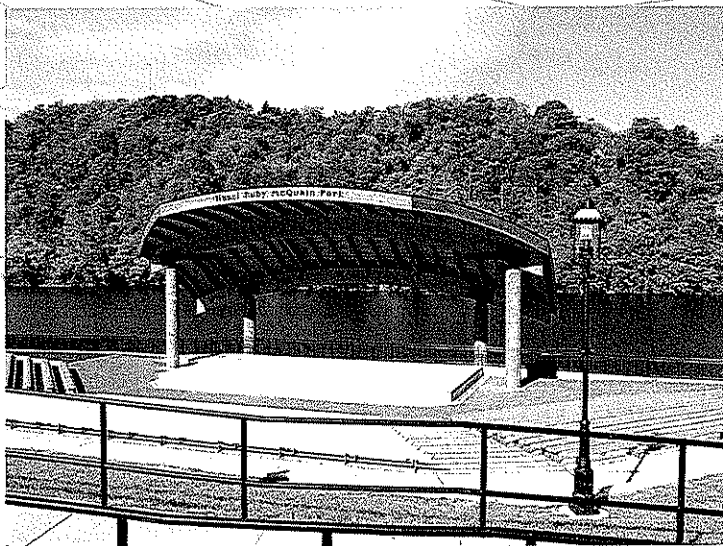
2 Location:  
Morgantown, WV

3 Completion Date:  
2002

4 Size:  
N/A

5 Construction Cost:  
\$550,000

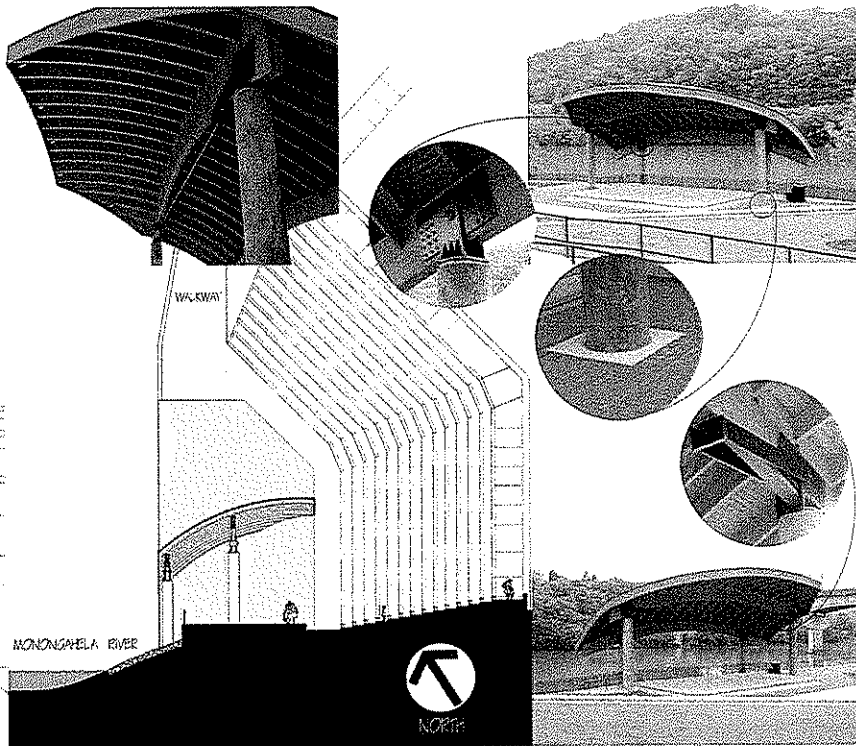
6 Project Relevance:  
• Recreational Facility  
• Access to Rail-Trail  
• Restroom Facilities



## Recreation Case Studies

### Project Description

#### Hazel Ruby McQuain Riverfront Park Amphitheater Roof Morgantown, WV



#### At A Glance...

1

**Client:**  
City of Morgantown

2

**Location:**  
Morgantown, WV

3

**Completion Date:**  
2002

4

**Size:**  
N/A

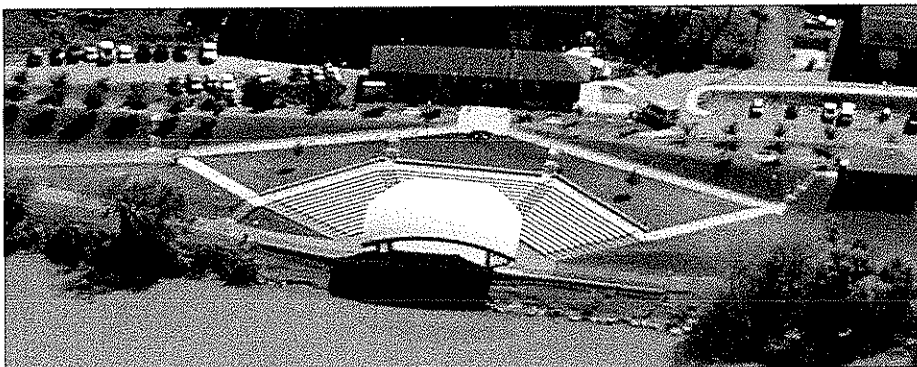
5

**Construction Cost:**  
\$550,000

6

**Project Relevance:**

- Recreational Facility
- Access to Rail-Trail



**Recreation Case Studies**

Project Description

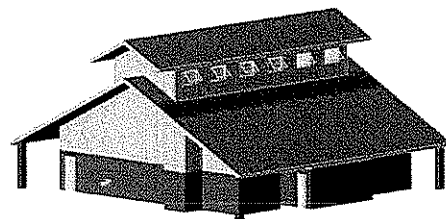
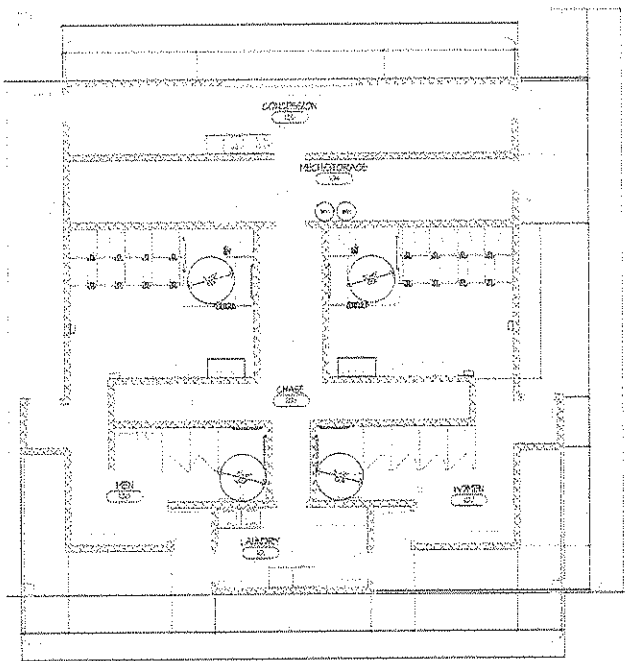
**North Fork Hughes River Recreational Design  
Ritchie County, WV**

Alpha Associates, Incorporated provided Architectural, Engineering and Landscape Design for the implementation of a \$12 Million Master Plan for the USDA. Projects include:

- Restrooms and Bath Houses
- Amphitheater
- Trails
- Parking Areas
- Check In Building
- Water Transmission and Distribution
- Navigational Aids
- Camping Areas (Deluxe and Primitive)
- Picnic Areas
- Sport Fields
- Roadways
- Maintenance Building
- Sewage Collection and Treatment

**At A Glance...**

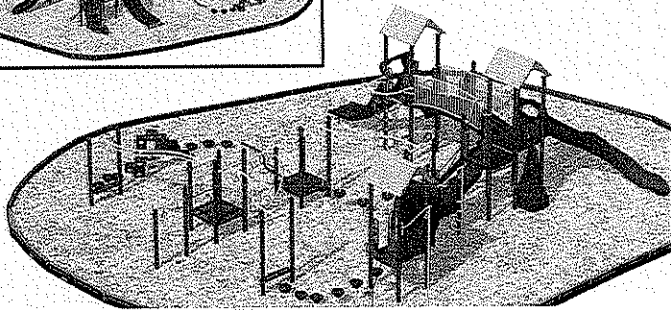
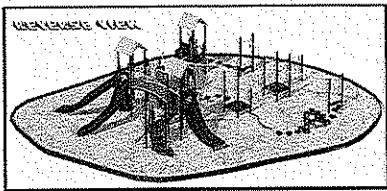
- 1 *Client:*  
United States Department of Agriculture
- 2 *Location:*  
Ritchie County, WV
- 3 *Completion Date:*  
Design Complete  
Construction TBD
- 4 *Size:*  
Multiple Projects
- 5 *Construction Cost:*  
Estimated \$12 million
- 6 *Project Relevance:*
  - Collaboration with Federal entities
  - Recreational Trails
  - Horseback Riding Trails
  - Recreational Facilities
  - Administrative Areas
  - Track and Field Areas



## Recreation Case Studies

### Project Description

### North Fork Hughes River Recreational Design Ritchie County, WV



#### At A Glance...

- 1 *Client:*  
United States Department of Agriculture
- 2 *Location:*  
Ritchie County, WV
- 3 *Completion Date:*  
Design Complete  
Construction TBD
- 4 *Size:*  
Multiple Projects
- 5 *Construction Cost:*  
Estimated \$12 million
- 6 *Project Relevance:*
  - Collaboration with Federal entities
  - Recreational Trails
  - Horseback Riding Trails
  - Recreational Facilities
  - Administrative Areas
  - Track and Field Areas



## Transportation Case Studies

### Project Description

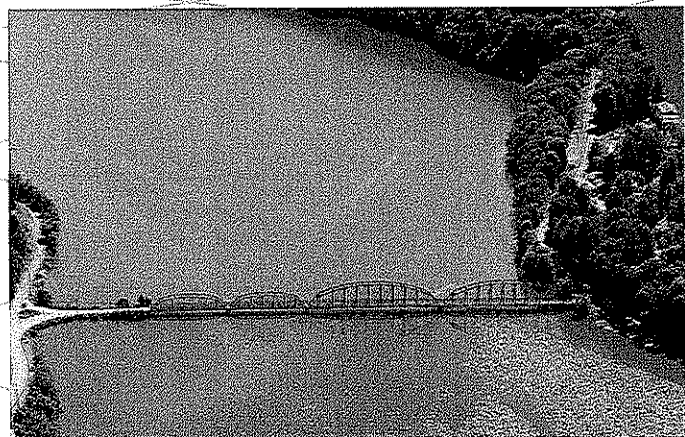
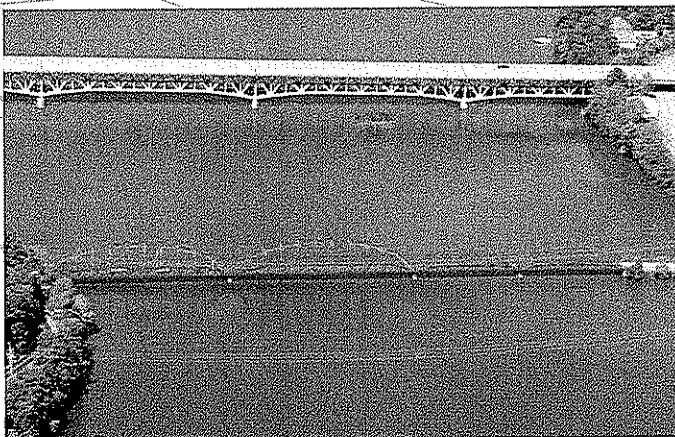
#### **Ices Ferry Bridge** **Cheat Lake, Morgantown, WV**

Alpha Associates, Incorporated is providing design engineering for this 880' four span bridge that will cross Cheat Lake in Morgantown, WV. The bridge will be 37'-6" wide and includes a 5'-0" sidewalk and two 12'-0" wide lanes with 3'-0" shoulders. The preliminary design incorporates four continuous steel plate beams and three socketed shaft hammer head piers.

The existing structure is severely deteriorated and requires replacement. The new bridge will provide increased load capacity and greatly increase boat clearance.

#### At A Glance..

- 1 *Client:*  
West Virginia  
Division of Highways
- 2 *Location:*  
Cheat Lake,  
Morgantown, WV
- 3 *Completion Date:*  
2009
- 4 *Size:*  
890 Feet
- 5 *Construction Cost:*  
\$10 Million



## SUMMARY

Mr. Colebank is President and Chief Operating Officer of the firm. Mr. Colebank has been with Alpha Associates, Incorporated since 1985. He began his career with Alpha as a staff engineer and progressed through the ranks from Project Manager to his current position. Mr. Colebank has worked with diverse clients such as West Virginia University, City of Morgantown, The West Virginia Division of Highways, WVU Foundation and the Morgantown Municipal Airport, as well as numerous private clients. Since 1988, Mr. Colebank has been the Principal-In-Charge of many of the Civil Engineering projects developed at Alpha. In his current capacity, Mr. Colebank provides financial and administrative guidance for the day-to-day operations of the company while continuing to manage Civil Engineering Projects.

## PROFILE

Broad-based responsibilities in the following areas:

- Project Management
- Business Operations and Financial Management
- Quality Assurance/Quality Control
- Civil Engineering Project Management and Design
- New Business Development

## PROFESSIONAL HIGHLIGHTS

### PRINCIPAL-IN-CHARGE

Transportation Projects:

- Morgantown Municipal Airport-IDIQ Contract; Morgantown, WV
- Route 10 Relocation; Wyoming County, WV
- South High Street Bridge Replacement; Morgantown, WV
- Blackshere Bridge Replacement; Mannington, WV
- Lewis County High School Access Road and Bridge; Weston, WV
- University Avenue/Stadium Loop; Morgantown, WV
- West Buckeye Bridge; Blacksville, WV

Civil Engineering Projects:

- Monongalia General Hospital; Morgantown, WV
- WVU Research Park; Morgantown, WV
- West Virginia Medal of Honor Recipients Plaza; Hazelton, WV
- West Virginia Division of Highways I-77 Welcome Center; Williamstown, WV
- West Virginia High Technology Consortium Site Work; Fairmont, WV
- Greystone on the Cheat through Phase II; Morgantown, WV

Indefinite Delivery/Indefinite Quantity Contracts:

- Morgantown Municipal Airport Open End Contract; Morgantown, WV
- West Virginia Division of Highways Open End Contract; State of WV
- National Energy Technology Laboratories; Morgantown, WV
- West Virginia University Open End Contract; State of WV



**RICHARD A. COLEBANK, PE, PS**  
PRESIDENT AND COO  
CIVIL ENGINEER  
rcolebank@alphaaec.com

## EMPLOYMENT HISTORY

**PRIVATE INDUSTRY:** 1985 – Present Alpha Associates, Incorporated  
1983 – 1985 Charles Townes and Associates, P.C.

**CORPS OF ENGINEERS:** 1983 US Army Corps of Engineers

## EDUCATION

**GRADUATE:** West Virginia University  
Masters – Business Administration; 1999

**UNDERGRADUATE:** West Virginia University  
BS – Civil Engineering; 1982

## QUALIFICATIONS

**LICENSE:** Professional Engineer:  
West Virginia, Pennsylvania, Maryland, Virginia, Ohio  
Professional Surveyor:  
West Virginia  
Certified Private Pilot

## AFFILIATIONS

**PROFESSIONAL:** West Virginia Society of Professional Engineers; Member  
American Society of Civil Engineers; Member  
National Society of Professional Engineers; Member  
Former NSPE/PEPP Governor of WV  
ACEC/WV; President

**CIVIC:** University High School Foundation; Charter Member; Current  
President  
Morgantown Area Chamber of Commerce; Past Chairman  
Arts Monongalia Board; Member  
Monongalia County MPO Technical Advisory Committee;  
Member  
Morgantown Area Economic Partnership; Member  
University High School Athletic Booster; Member  
Aircraft Owners and Pilots Association (AOPA)  
University High School Athletic Field Committee



**CHARLES B. LUTTRELL, PE, SECB**  
PRINCIPAL  
PROFESSIONAL ENGINEER  
STRUCTURES  
cluttrell@alphaaec.com

## SUMMARY

Mr. Luttrell has worked with Alpha Associates, Inc. since 1996. He is the chief structural engineer for Alpha on all projects at Alpha. Before coming to Alpha, Mr. Luttrell's graduate work resulted in several contributions to the cold-formed steel deck industry. His new method of analysis for non-uniform loads on composite concrete and cold-formed steel decks has been made a permanent part of the *Steel Deck Institute's* design manual. Mr. Luttrell also worked on projects that involved pre-stressed timber bridge research with the West Virginia University Constructed Facilities Center. Since coming to Alpha, Mr. Luttrell has had a significant involvement in the effort to begin utilizing modern composite materials in practical bridge applications. Two recent Alpha bridge projects have been designed using these innovative materials.

## PROFILE

Broad-based responsibilities in the following areas:

- Bridge Structural Design and Analysis
- Innovative Bridge Materials Applications
- Building Structural Design and Analysis
- Historical Restoration and Evaluations

## PROFESSIONAL HIGHLIGHTS

### STRUCTURAL ENGINEER:

- Hazel Ruby McQuain Amphitheater Roof, Morgantown, WV
- West Buckeye Bridge, Core, WV
- South Jefferson High School, Charles Town, WV
- WVU Coliseum Asbestos Abatement Project (Scaffolding Design and Dome Structural Inspection); Morgantown, WV
- Morgantown Airport Air Rescue and Firefighting Building; Morgantown, WV
- WVU Coliseum Scoreboard Hoist Project; Morgantown, WV

### PROJECT MANAGER:

Bridge Design:

- Blackshere Bridge; Mannington, WV
- South High Street Bridge; Morgantown, WV
- Market Street Bridge; Wheeling, WV
- West Buckeye Bridge; Core, WV
- Simpson Creek Covered Bridge; Marion County, WV
- Fletcher Covered Bridge; Marion County, WV
- Elkins Bypass, Spur A Bridge; Elkins, WV





**CHARLES B. LUTTRELL, PE, SECB**  
PRINCIPAL  
PROFESSIONAL ENGINEER  
STRUCTURES  
cluttrell@alphaaec.com

## EMPLOYMENT HISTORY

**PRIVATE INDUSTRY:** 1996 – Current Alpha Associates, Incorporated  
1995 – 1996 Larry D. Luttrell, PE, Ph D  
1991 – 1994 West Virginia University  
1990 – 1991 WVU Constructed Facilities Center

## EDUCATION

**GRADUATE:** West Virginia University  
MS – Structural Engineering; 1995

**UNDERGRADUATE:** West Virginia University  
BS – Civil Engineering; 1993

## QUALIFICATIONS

**LICENSE:** Professional Engineer:  
West Virginia, Maryland, Pennsylvania

## AFFILIATIONS

**PROFESSIONAL:** West Virginia Society of Professional Engineers  
National Society of Professional Engineers  
Chi Epsilon; Member  
American Concrete Institute; Member  
Structural Engineering Certification Board

## RESEARCH EXPERIENCE

**STRUCTURAL:** Cold Formed Steel Deck Research

- Fastener failures
- Edge conditions/failures
- Buttoned overlap shear failures

Composite Cold Formed Steel and Concrete Deck Research

- Line load behavior/failures
- Concentrated load behavior/failures
- Web crippling
- Punch failures



## SUMMARY

As Chief Engineer for site development and planning projects, Mr. Branch is a vital part of the design process at Alpha. His involvement spans from strictly civil engineering projects, to the design of large scale educational projects and medical facilities. Mr. Branch acts as peer review for young engineers in the firm on issues ranging from storm water management to site design. Mr. Branch is also involved in commercial and residential development design, roadway and bridge design and utilities layout.

## PROFILE

Broad-based responsibilities in the following areas:

- Highway Design
- Municipal Engineering
- Wastewater Collection
- Storm Sewer/Storm Water Management Design
- Site Engineering
- Project Management

## PROFESSIONAL HIGHLIGHTS

### Highway Design:

- Blackshere Bridge - Mannington, WV
- I-68 Welcome Center - Hazelton, WV
- I-77 Information Center - Williamstown, WV
- Lewis County High School Bridge - Weston, WV
- Wyoming County Route 10 Relocation - Wyoming County, WV

### Commercial Site Plans:

- West Virginia High Technology Consortium - Fairmont, WV
- Doan Ford - Belmont, OH
- WVU Health Sciences Center Eastern Division - Martinsburg, WV
- Residence Inn - Morgantown, WV
- FFCU - Charles Pointe - Bridgeport, WV

### Recreational Facilities Projects:

- Wyoming County Westside High School Athletic Facilities - Wyoming County, WV
- East/West Stadium Turf Replacement - Fairmont, WV
- Washington High School Athletic Complex - Charles Town, WV

### Educational Projects:

- Anna Jarvis Elementary School - Grafton, WV
- Lewis County High School - Weston, WV
- Wyoming County East High School - Wyoming County, WV
- Wyoming County Westside High School - Wyoming County, WV
- Washington High School - Charles Town, WV



<b>CHARLES B. BRANCH, PE</b> PRINCIPAL CIVIL ENGINEER cbranch@alphaaec.com	
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### EMPLOYMENT HISTORY

**PRIVATE INDUSTRY:** 1992 – Present      Alpha Associates, Incorporated  
1988 – 1992              Reimer, Muegge, & Associates, Inc.

### EDUCATION

**UNDERGRADUATE:** Fairmont State College  
BS – Architectural Engineering Technology 1988  
West Virginia University  
BS – Civil Engineering 2000

### QUALIFICATIONS

**LICENSE:** Professional Engineer  
West Virginia



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## SUMMARY

Mr. Accord is a staff structural engineer in the Morgantown office. He obtained his Masters Degree in Structural Engineering from the University of Pittsburgh, where he graduated Summa Cum Laude. He has experience in performing structural design and civil engineering. Prior to his employment at Alpha Associates, Incorporated, he gained valuable experience working for Nicholson Construction.

## PROFILE

Broad-based responsibilities in the following areas:

- Industrial Structural Inspections
- Building Design
- Bridge Design
- Site Engineering

## PROFESSIONAL HIGHLIGHTS

Engineering Projects:

- WVU Alumni Center: Structural Framing and Foundation Design
- Washington High School: Structural Framing and Foundation Design
- Chemtura: Structural Steel Design
- FCCU: Structural Design
- Cass Scenic Railroad: Clubhouse Renovation
- WVU Engineering Sciences Building: Structural Design
- The Augusta Apartments: Structural Design

## EMPLOYMENT HISTORY

<b>PRIVATE INDUSTRY:</b>	2005 – Present	Alpha Associates, Incorporated
	2003 – 2004	Nicholson Construction
	2002 – 2003	Covey Engineering
	1999 – 2001	AB Construction

## EDUCATION

<b>GRADUATE:</b>	University of Pittsburgh Masters of Structural Engineering; 2005
<b>UNDERGRADUATE:</b>	University of Pittsburgh BS – Civil Engineering; 2004

## QUALIFICATIONS

<b>LICENSE:</b>	Professional Engineer West Virginia
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## SUMMARY

Mr. Miller has gained experience in all phases of surveying with numerous civil engineering and site development projects throughout West Virginia and Pennsylvania. These project surveys include highway construction, power plant construction, geodetic survey control, boundary, topographic, subdivision layout, waterline construction, sanitary sewer line construction and storm drainage structure layout.

## PROFILE

Broad-based responsibilities in the following areas:

- Surveying Technology
- Surveying

## PROFESSIONAL HIGHLIGHTS

### SURVEYING:

- Chemtura Plant 3-D Pipe Survey – Morgantown, WV
- Power Plant Construction Surveying – Ft. Martin, WV
- Hart Field Airport – GPS Control Network, Boundary Survey and Various Construction Surveys in Monongalia County, WV.
- WVU Engineering Sciences Building, Topographic Survey – Morgantown, WV
- Augusta Project for McCoy 6, Boundary Survey – Morgantown, WV
- Greenbrier County Subdivision, Topographic and Boundary Survey – Lewisburg, WV
- Pittsburgh International Airport, GPS Control Network and Boundary Survey – Pittsburgh, PA
- PA Turnpike Commission – Findlay Connector, Stakeout References and Road Alignments – Washington County and Allegheny County, PA
- Penn DOT – Rt. 22 Widening Reconstruction, Stakeout References and Road Alignments – Indiana County and Cambria County, PA

## EMPLOYMENT HISTORY

<b>PRIVATE INDUSTRY:</b>	2006 – Current	Alpha Associates, Incorporated
	1999 – 2006	Monahon Basin Engineers
	1998 – 1998	Nemacolin Woodlands Resort & Spa
	1996 – 1998	Mon-Valley Surveying

## EDUCATION

<b>UNDERGRADUATE:</b>	West Virginia University	1994
	BS – Business Management – Human Resources	
	Potomac State College of West Virginia University	
	AA – Business and Economics,	1992



<b>BRADLEY D. MILLER, PS</b> PARTY SURVEY CHIEF bmiller@alphaaec.com	
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### QUALIFICATIONS

**LICENSE:**

Professional Surveyor:  
West Virginia

### AFFILIATIONS

West Virginia Society of Professional Land Surveyors



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**References**

ALPHA ASSOCIATES,  
INCORPORATED  
2009

1

**Client References**

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Recently Constructed Projects

**McDonald Smith**  
**WV Parks and Recreation, Division of Natural Resources**  
1200 Harrison Avenue  
Elkins, WV 26241  
304-637-0300

**Van Anderson**  
**Mylan Park**  
500 Mylan Park Lane  
Morgantown, WV 26507  
304-293-9383

**Asel Kennedy**  
**Monongalia County Commission**  
243 High Street  
Morgantown, WV 26505  
304-291-7257

**Donald Williams**  
**WV Division of Highways**  
Exit 121- I-79 Meadowbrook  
Clarksburg, WV 26301  
304-842-1523

