

VALLEY | ENGINEERING
IDEAS MADE REAL

Expression of Interest

Charleston Complex Access Road and Utility Upgrades
DEFK 11024

Buyer: TL-File 32
Req #: DEFK11024
Opening Date: January 25, 2011
Opening Time: 1:30PM

Department of Administration
Purchasing Division
Building 15
2010 Washington Street, East
Charleston, WV 25305-0130

RECEIVED

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PURCHASING DIVISION
STATE OF WV



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
 DEFK11024

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF
 TARA LYLE
 304-558-2544

RFQ COPY
 TYPE NAME/ADDRESS HERE

SHIP TO
 DIV ENGINEERING & FACILITIES
 ARMORY BOARD SECTION
 1707 COONSKIN DRIVE
 CHARLESTON, WV
 25311-1099 304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/14/2010				
BID OPENING DATE: 01/25/2011		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UQP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-00-00-001		
<p>ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL</p> <p>EXPRESSION OF INTEREST (EOI)</p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, DIVISION OF ENGINEERING & FACILITIES, WV ARMY NATIONAL GUARD, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ARCHITECTURAL ENGINEERING DESIGN SERVICES FOR AN ACCESS ROAD, UTILITY UPGRADES AND ROUGH SITE GRADING TO THE CHARLESTON ARMORY COMPLEX, PER THE FOLLOWING BID REQUIREMENTS AND THE ATTACHED SPECIFICATIONS.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p>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.</p> <p>TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO TARA LYLE VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS EOI, VIA FAX AT 304-558-4115, OR VIA EMAIL AT TARA.L.LYLE@WV.GOV.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE 	TELEPHONE 304-257-4818	DATE 1-24-2011
TITLE President	FEIN 55-0517363	ADDRESS CHANGES TO BE NOTED ABOVE

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

GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, 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.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **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>.
15. **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, and the West Virginia Insurance Commission. 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.
16. **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 material, 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.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



State of West Virginia
 Department of Administration
 Purchasing Division
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LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>DEADLINE FOR ALL TECHNICAL QUESTIONS IS 01/06/2011 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED.</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">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:-----TL/32-----</p> <p>RFQ. NO.:-----DEFK11024-----</p> <p>BID OPENING DATE:-----01/25/2011-----</p> <p>BID OPENING TIME:-----1:30 PM-----</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>[Signature]</i>	TELEPHONE 304-257-4818	DATE 1-24-2011
TITLE President	FEIN 55-0517363	ADDRESS CHANGES TO BE NOTED ABOVE

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PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: ----- 304 257 2224 ----- CONTACT PERSON (PLEASE PRINT CLEARLY): ----- Kirk Wilson PE ----- ***** THIS IS THE END OF RFQ DEFK11024 ***** TOTAL:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Kirk Wilson</i>	TELEPHONE 304-257-4818	DATE 1-24-2011
TITLE President	FEIN 55-0517363	ADDRESS CHANGES TO BE NOTED ABOVE

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01/11/2011				

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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
1. QUESTIONS AND ANSWERS ARE ATTACHED. 2. ADDENDUM ACKNOWLEDGEMENT IS ATTACHED. THIS DOCUMENT SHOULD BE SIGNED AND RETURNED WITH YOUR BID. FAILURE TO SIGN AND RETURN MAY RESULT IN DISQUALIFICATION OF YOUR BID.						
EXHIBIT 10						
REQUISITION NO.: DEFK11024						
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 NO.'S:						
NO. 1						
NO. 2						
NO. 3						
NO. 4						
NO. 5						
I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS.

SIGNATURE <i>[Signature]</i>	TELEPHONE 304-257-4818	DATE 1-24-2011
TITLE President	FEIN 55-0517363	ADDRESS CHANGES TO BE NOTED ABOVE

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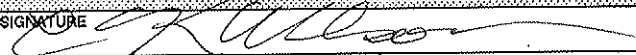
DIV ENGINEERING & FACILITIES
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<p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p style="text-align: center;">  SIGNATURE L+W Enterprises..... COMPANY 1-24-2011 DATE </p> <p>NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.</p> <p>REV. 09/21/2009</p> <p style="text-align: center;">END OF ADDENDUM NO. 2</p>						
0001	1	JB		906-00-00-001		
ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL						

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TITLE President	FEIN 55-0517363	ADDRESS CHANGES TO BE NOTED ABOVE

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RFQ No. DEFK11024

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 owed 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 exceeds 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.

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.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: L+W Enterprises

Authorized Signature: [Signature] Date: 1-24-2011

State of Virginia

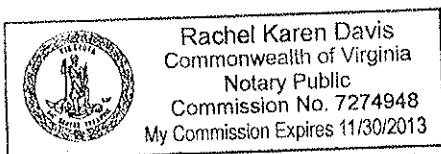
County of Rockingham, to-wit:

Taken, subscribed, and sworn to before me this 24 day of January, 2011.

My Commission expires November 30, 2011

AFFIX SEAL HERE

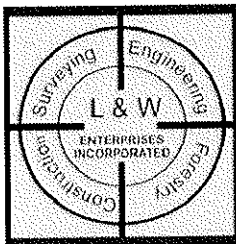
NOTARY PUBLIC [Signature]



*Letter of
Interest*

*Charleston Complex
Access Road and
Utility Upgrades*

#DEFK 11024



Purchasing Division
2019 Washington Street, East
P.O. Box 50130
Charleston, WV 25305-0130

**Re: Charleston Complex Access Road and Utility Upgrades
DEFK 11024**

Dear Purchasing Division,

The intent of this correspondence is to express our interest in the above referenced project. It is the objective of this letter to communicate the desire of L&W Enterprises and Valley Engineering to provide architectural/engineering services for the design of an access road, utility upgrades and rough site grading to the Charleston Armory Complex to provide for future building sites.

The details of this expression of interest are outlined in the following sections, and are based upon your Expression of Interest published for the project. The Team we offer includes all necessary L&W Enterprises (L&W) and Valley Engineering (VE) personnel needed to provide Architectural, Civil, Mechanical and Electrical Engineering, Surveying, and Construction Support services if requested. Our team will provide the best value design services required to meet the State of West Virginia's requirements in a timely fashion. The team's approach employs a practical and highly skilled engineering firm with significant experience and capacity. L&W and VE have worked together successfully in the past on several projects and have more than adequate capability to meet the State of West Virginia's requirements.

L&W and VE have brought WYK Associates, Inc. on board for any and all architectural services that may be required for the project. VE and WYK have completed and are currently working together on several projects, thus having formed a great working relationship. WYK is located in Clarksburg, WV, making them the ideal partner for L&W and VE.

If you have any questions or need additional information, please do not hesitate to contact me directly.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "C. Wilson".

Charles K. Wilson, PE
President
L&W Enterprises, Inc.

VALLEY | **ENGINEERING**
IDEAS MADE REAL

L&W Firm Profile

Company Legal Name:
L&W Enterprises, Inc.

Certification:
Service Disabled Veteran
Owned Small Business

Principal Officers:
Charles Kirk Wilson
Principal-in-Charge

Location:
Petersburg, WV

Services Offered:
Civil
Transportation
Surveying
Planning
Contract Administration

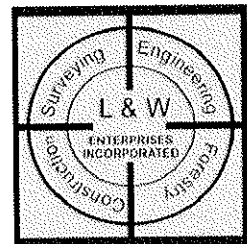
Breakdown of Employees:
Principals: 2
Civil Engineers: 1
Designers: 1
Licensed Surveyors: 1
Survey Field Crew: 3
Secretarial/Clerical: 1

*L&W Enterprises, Inc
P.O. Box 826
Petersburg, WV 26847
P: (304)257.4818
F: (304)257.2224*

www.wvsurveyengineering.com

L&W Enterprises, Inc. is a family owned and operated Service Disabled Veteran Owned small business that was founded in 1969 as a surveying and timber management company. In 2005, the current President, Kirk Wilson, WVPE, added engineering, construction and contract management to the business after retiring from the US Navy after 22 years of service as a Civil Engineer Corps Officer. L&W has extensive experience in civil design, boundary surveys, large and small subdivisions and all facets regulatory permits. Curtis Keplinger, PS, is the head surveyor and forester with over 35 years of experience and was appointed to the WV Boundary Commission by Governor Manchin and is recognized as the foremost authority on surveying in the area. Ronnie Crites is the Crew Chief with over 20 years of field experience.

L&W has completed many complex projects that include large subdivisions of greater than 10,000 acres to small house lots and layouts. Likewise, over the last five years, L&W has planned, designed, permitted, and managed construction and inspection for over 30 miles of subdivision roads and Marcellus Gas Well pads and water impoundments in the mountainous regions of the Eastern Panhandle and central West Virginia. They specialize in integrating surveying, engineering, and construction in order to save the owner development costs while providing design solutions to meet the Client's functional requirements. L&W is experienced in transportation, storm water, water, and sewer design as well as all aspects of site development. L&W is the single point for real property planning, design, and development.



Firm Profile

Company Legal Name:
Valley Engineering, PLC

Certification:
Small Business Enterprise
(SBE)

Principal Officers:
Daniel K. Michael – Partner
Principal-in-Charge

Connie G. Hess – Partner
General Manager

Services Offered:
Mechanical
Electrical
Plumbing
Structural
Civil
Transportation
Surveying
Planning

Breakdown of Employees:

Principals: 2
Mechanical Engineers: 4
Electrical Engineers: 3
Plumbing Engineers: 1
Structural Engineers: 2
Civil Engineers: 4
Transportation Engineers: 1
LEED Professionals: 3
Designers: 4
Licensed Surveyors: 1
Survey Field Crew: 3
Survey Administrators: 2
Secretarial/Clerical: 5

Valley Engineering
3231 Peoples Drive
Harrisonburg, VA 22801
P: 540.434.6365
F: 540.432.0685
www.valleyesp.com

Founded in 1997, Valley Engineering has grown from a one man operation to a full service firm offering mechanical, electrical, plumbing, structural, civil, and transportation engineering as well as surveying and planning services. Valley Engineering now has 35 employees providing service in Virginia, West Virginia, and other surrounding states.

We work as a team with our clients to identify their needs and goals. Through schematic design, design development, and construction documents, each step of our design process is carefully communicated to the client. Our common goal is for the client to understand exactly what they should expect when their respective project is complete.

Valley Engineering believes successful projects begin with excellent planning and require interaction with the whole project team. Before beginning any design, we carefully help our client understand levels of expectation based on systems chosen and the amount of investment they are willing to make. Throughout the entire design process, we work with our clients to help them better comprehend project concepts that are both visible and hidden. We believe a better knowledge of these concepts creates increased owner awareness and satisfaction once the project is complete.

Valley Engineering's strength in our areas of expertise relies on over 150 years of combined design, construction, and installation experience. Prior to entering into the consulting business several members of the Valley Engineering design team worked for contracting firms building what we now design. This experience helps Valley Engineering develop reasonable budgets, accurate, energy efficient designs, and provides valuable insight for cost control during the design process.

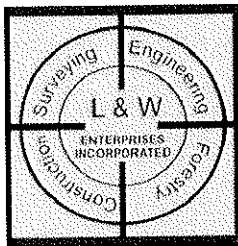
We acknowledge the difficulty in selecting engineering firms. You expect creativity and technical expertise. Most firms have these attributes although many would disagree strenuously over what constitutes them. It has been our experience that clients want design firms committed to service, who genuinely listen, and who treat your work as if it were their own. We offer this service. Our philosophy is reflected in the creative and practical approach to unique problems, technical expertise, experience, history of excellent service, and principles.

VALLEY | **ENGINEERING**
IDEAS MADE REAL

Management Plan

Charleston Complex Access Road and Utility Upgrades

#DEFK 11024



L&W and Valley Engineering (VE) have completed multiple successful projects both individually and combined. The team for this specific project is made up of a select group of individuals with extensive experience in the various fields of engineering and surveying associated with this project.

Mr. Kirk Wilson, PE, President of L&W Enterprises will oversee the project coordination; provide the final review of the construction documents for design standard compliance and constructability. He will act as the liaison with the Construction and Facilities Management Staff, and all other Local, State, and Federal Agencies. Mr. Wilson has extensive experience as a contract project manager and complex projects for military mission support.

Mr. Wilson will also act as the team contact for all surveying associated with this project. As you can see in his resume, Mr. Wilson is very comfortable in this role.

The group for which Mr. Wilson will provide direct coordination includes:

Mr. Daniel Michael, PE, Owner of VE. Daniel will oversee project coordination and be the design Project Manager which includes responsibility for design, Quality Assurance, and Cost Control. Mr. Michael has extensive experience with large and complex designs involving utility planning, water supplies, wastewater collection, hospitals, resorts, schools, manufacturing, and commercial business.

Mr. J.W. Hawk, PE will be the site designer and designer of waterlines, tanks, and pump systems. He will coordinate with other team members for other mechanical and electrical systems. JW has specific and extensive experience site design, water distribution modeling and design.

Mr. Curtis Keplinger, PS will be the surveyor of record for right-of-way easement surveys, construction ground control and digital orthophotography as required. Curtis has over 35 years of experience and is a recognized expert in the field of Surveying.

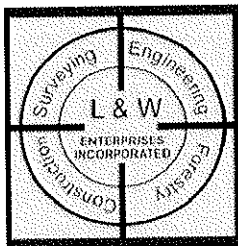
The team members have a combined staff in excess of 35 dedicated employees from which to draw productivity and creative engineering solutions. The project will be managed with efficiency and attention to detail that the Client deserves.

VALLEY | ENGINEERING
IDEAS MADE REAL

Plan of Approach

Charleston Complex Access Road and Utility Upgrades

#DEFK 11024



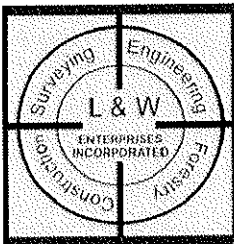
Upon selection of our team, a meeting with the Construction and Facilities Management Staff will be set to ensure the understanding and desired outcomes for the project. The Design Team will employ a step by step approach using the following key milestones:

1. Initial Scope Meeting and Site Visit – Data and design concepts from this meeting will be the basis of preliminary/schematic design. During this meeting, data will be gathered from the Client relevant to the project. Topographic and boundary surveys will be accomplished for use in the construction documents and any required right-of-way documentation.
2. Preliminary Design Development and System Analysis – A preliminary design will be developed along with a utility system analysis and provided to the Client for comment. The Client will be provided a list of all permit requirements for the project. A meeting will be scheduled to discuss the preliminary design and concept and obtain Client approval on the proposed design. (15% Design).
3. Design Development – Upon approval of the preliminary design, the construction documents shall be completed and submitted for review and comment to the Client. The preliminary designs shall be appropriately coordinated with permitting officials as a part of this process. Once the Client is satisfied, the construction documents shall be submitted to local and state agencies for approval. (95% Design)
4. Construction Cost Estimate – During design development, several design reviews shall be coordinated with the Client for constructability, long term maintenance and cost. A detailed cost estimate based on refined design shall be submitted at each review.
5. State and Local Approvals – Based on the Final Design, appropriate permit applications will be developed for Client submission as required for approvals.
6. Final Construction Documents – The complete bid/pricing packaged that includes plans, specifications and a cost estimate. (100% Design)
7. Bidding and Construction Process – Advertising, pre-bid meeting, requests for information, bid analysis with a recommendation for award and construction support shall be provided to the Client upon request of the Client.

Design Philosophy

Charleston Complex Access Road and Utility Upgrades

#DEFK 11024



L&W and Valley Engineering employ a functional design philosophy focused on meeting the Client's functional facilities requirements while complying with relevant codes, regulations, and local ordinances. Functional design is dependent on effective and efficient communication and feedback with the Client to clearly define and refine the project's functional requirements. This includes initial and on-going communications with the Client, State and local officials so that requirements, constraints, contingencies, and potential growth are integrated in the design. During the process, the Client is given several opportunities to comment on the design and the design's base assumptions, thus insuring that the design meets the Client's functional requirements. This philosophy is reflected in the Design process.

This project includes site and utility design for future projects. Therefore, certain assumptions on site and utility requirements will have to be determined within a reasonable range that allows for flexibility of design for the future construction. Our Team has this type of experience and can assist the Client in developing the requirements which will be the basis for project design for the access road project and future construction projects.

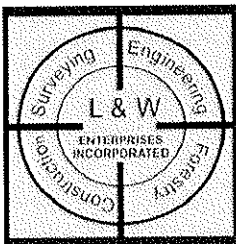
The road design will comply with appropriate WV Department of Transportation and City of Charleston Design Standards and will be accomplished using CAD technology coupled with construction experience.

VALLEY | ENGINEERING
IDEAS MADE REAL

EQT Corporation

Charleston Complex Access Road and Utility Upgrades

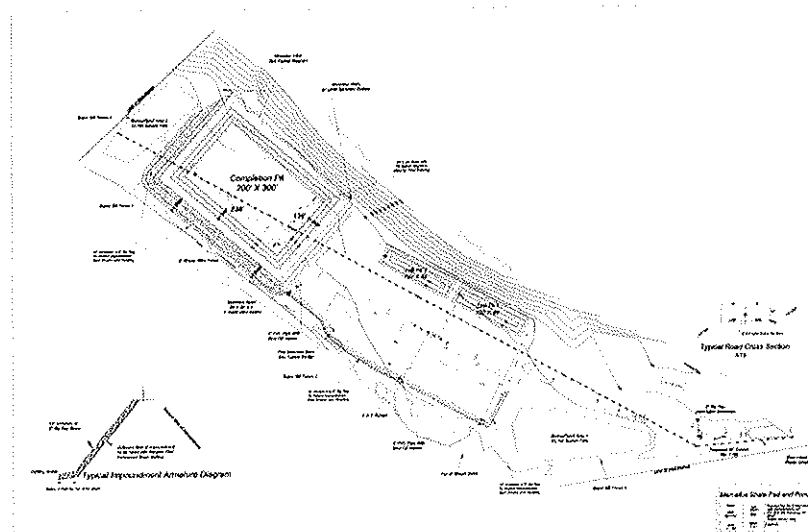
#DEFK 11024



L&W Enterprises completed civil engineering design documents for a six-well Marcellus Gas well pad that included an access road, the pad and a lined water completion pond/pit with sediment control structures and culverts.

L&W designed the pad with considerations for the very large drill rig with significant bearing loads and support structures. In total the site covers over 5 acres. The pad and completion pond are both armored against flood waters. Water being a significant component of the drilling and fracturing process with regulatory concerns, the pond was designed to with stand 100 year flood events. The pond is lined with a 30 mil Geo-membrane with appropriate safety fence. The access road is nearly 600 feet long and will support drill rig loads along with heavy truck traffic.

The example below has been stripped of Client specific design features:



Moorefield Training Center

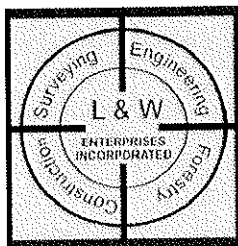
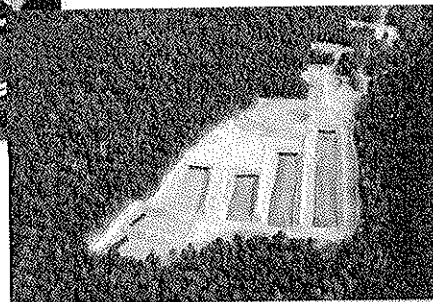
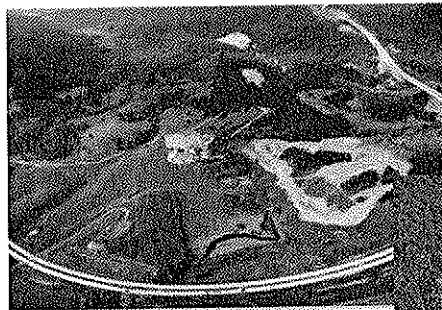
Old Fields, WV

Charleston Complex
Access Road and
Utility Upgrades

#DEFK 11024



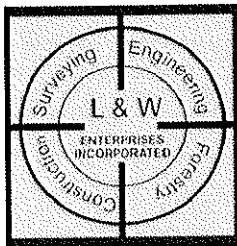
Project was a joint venture by Valley Engineering and L&W Enterprises. Firms provided engineering, surveying, and logistics support for a full service Sustainment Training Facility supporting training for Departments of State and Defense security personnel and contractors, US Military, and Law Enforcement personnel. Project included small arms ranges, driving courses, classrooms, obstacle courses, and all utilities. Assisted in land acquisition, prepared concept design and support documentation, and represented the owners before public and zoning officials for approval. Prepared and obtained Zoning Conditional Use, US Army Corps of Engineers Nationwide 39 Wetland, WV Department of Environmental Protection Storm Water (NPDES), WV Division of Natural Resources Right of Entry, Building, Septic, Public Water System and Well permits, and provided press releases and other interfaces with the public, Hardy County, and State Officials. All permits required to break ground were successfully obtained in less than 45 days due to exceptional quality and close coordination with permitting officials. All other permits were obtained within 90 days. Assisted in negotiation of Land Lease agreement with Landowner and provided surveying for boundary and construction layout for ranges, driving courses, and multiple buildings on three separate sites.



VALLEY | ENGINEERING
IDEAS MADE REAL

*Hampshire
Memorial
Hospital
Romney, WV*

*Charleston Complex
Access Road and
Utility Upgrades
#DEFK 11024*



Valley Engineering completed civil, structural, mechanical, electrical, and plumbing systems design documents, as well as topographical survey for a new critical access hospital and an attached 23,400 SF medical office building. Design of the hospital represents the first in a series of critical access facilities. Valley Engineering recently completed designing the second hospital in the series. Project is projected to attain LEED Silver certification.

HVAC systems design included five (5) packaged rooftop units designed for hospital use with VAV systems and a complete building automation system (2 units with heat recovery). Heating hot water for the facility is provided by two completely redundant hot water boilers with pumps and distribution piping. Significant electrical system features include a 3,000 amp main service with backup generator and automatic transfer switches. Plumbing design features include a complete commercial kitchen and oxygen/medical air/vacuum systems to serve the hospital.

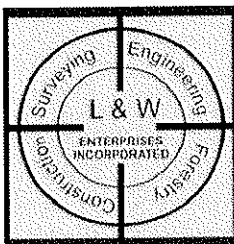
Valley Engineering prepared preliminary site analysis and feasibility study for Owner's use in evaluating property for purchase. Site design included a new critical access hospital and medical office building and all associated utilities. The total approximate land disturbance associated with this project was ± 14.1 acres. Planning for adequate parking considered the Americans with Disabilities Act and Valley Engineering provided additional parking specifically for low-emissions and fuel-efficient vehicles, in accordance with LEED specifications. Engineers worked closely with County departments on the water and sanitary sewer plans for on-site connections. Valley Engineering provided stormwater management on site as directed by all local, state, and federal regulations. Design documents illustrated treatment of runoff from the site for pollutant and sediment removal while reducing runoff at a rate less than prior to construction; thereby preventing any erosion or flooding to downstream channels. Design documents called for pretreatment of sanitary waste per requirements by an independently owned treatment facility.

Ariake
Harrisonburg,
VA

This design/build project included 9+/- acres associated with the expansion of an existing manufacturing facility used in the food processing industry. Design was provided for approximately 72,000 sf of building expansions. Engineering included: Roadway Alignment, Pavement Design, Site Grading, Utility Routing, Stormwater Management, Erosion and Sediment Control Design, Parking Lot Design, and Pump Station Design.

Charleston Complex
Access Road and
Utility Upgrades

#DEFK 11024



VALLEY | ENGINEERING
IDEAS MADE REAL

*Interstate
Business Park*

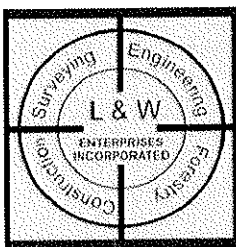
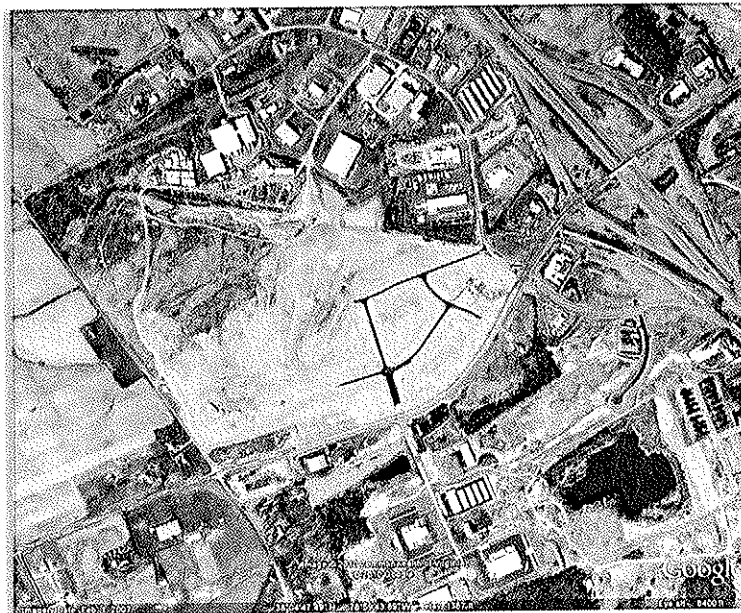
*Harrisonburg,
VA*

*Charleston Complex
Access Road and
Utility Upgrades*

#DEFK 11024



When Neff Enterprises wished to develop a tract of land measuring more than 120-acres for a commercial/business park, they called on Valley Engineering (VE). In all, the planned and engineered site consisted of nearly 8,000 linear feet of new two lane roadway with storm sewer, more than 20,000 linear feet of water and sewer main extensions, and more than one million cubic yards of grading. Associated with this development, Neff Enterprises also contracted VE to complete a traffic impact analysis to determine the site's impact on the surrounding roadway network. Following this report and negotiations with VDOT and County, VE completed the design of extensive mitigation efforts, including the widening of Route 608 (Tinkling Springs Road) from a two lane highway to a four lane divided highway with multiple turn lanes and signalized intersections. VE also negotiated an agreement with the County for a tax incentive based method of financial reimbursement for the project, easing the burden of development for the owner. The property is now under new ownership with VE continuing to serve as a consultant.



VALLEY | ENGINEERING
IDEAS MADE REAL

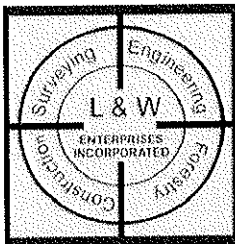
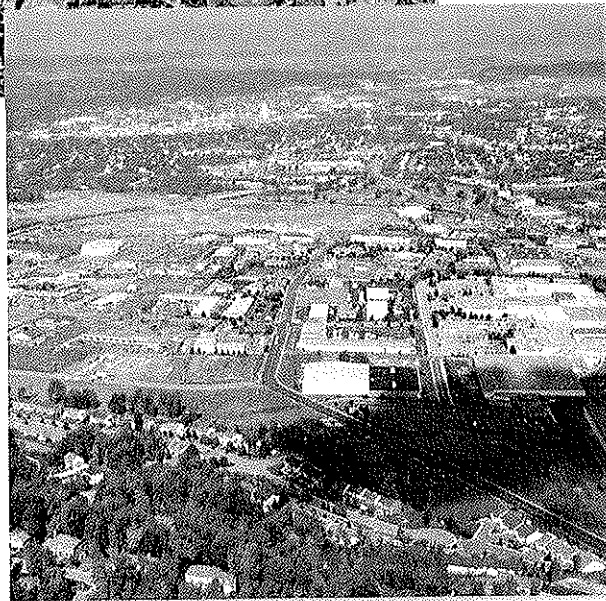
Valley Mall Commercial Park

Harrisonburg, VA

This design/build project consisted of 195 acres located in and around the Valley Mall and extending southward to the limits of James Madison University CISAT Campus. The staff at Valley Engineering provided the Planning, Surveying and Engineering associated with the development of approximately 15,000 lf of roadway, roughly 30,000 lf of water distribution and sanitary sewer mains, regional stormwater management facilities and all associated surveying. Upon completion of the overall infrastructure for the area, we completed construction documents and surveying plats for individual site development projects ranging from small 1 acre commercial sites to the roughly 12 acre Costco Facility.

Charleston Complex Access Road and Utility Upgrades

#DEFK 11024



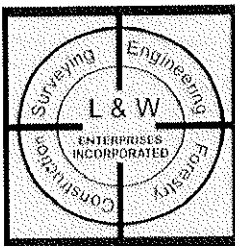
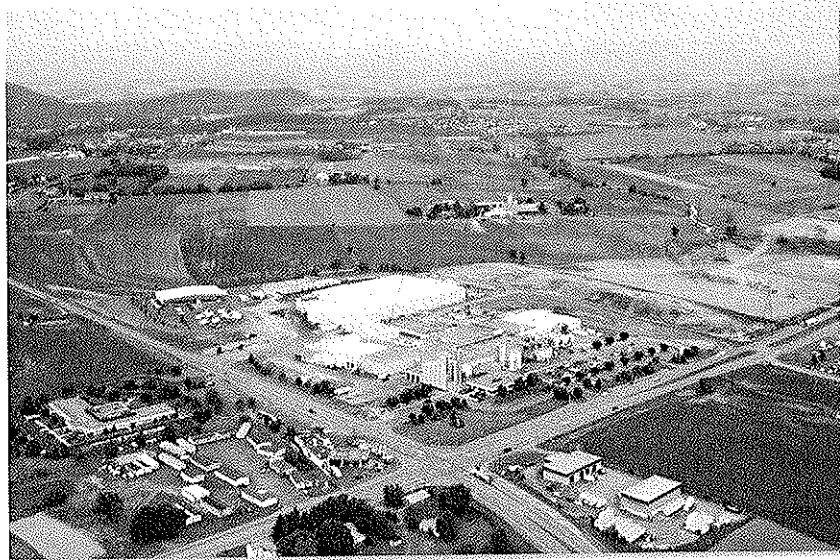
VALLEY | ENGINEERING
IDEAS MADE REAL

*White Wave
Mount Crawford,
VA*

This design/build project included 47± acres associated with expansion of an existing manufacturing facility used in the dairy industry. Design was provided for approximately 225,000 SF of building expansions, a wastewater treatment plant, and nearly 14,000 feet of utility lines. Engineering included: roadway alignment, pavement design, traffic turn-lane analysis, site grading, utility routing, storm water management, erosion and sediment control design. \$90+ million project.

*Charleston Complex
Access Road and
Utility Upgrades*

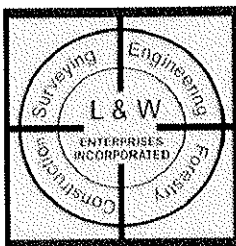
#DEFK 11024



*Quality
Assurance &
Cost Control*

*Charleston Complex
Access Road and
Utility Upgrades*

#DEFK 11024



L&W and Valley Engineering (VE) strives to provide top quality assurance in every project we undertake. Our reputation is such that we complete projects assigned in a timely manner, staying within budget unless additional requests are made by our clients.

For this project, our quality assurance procedures start with the Owner of VE, Daniel Michael, PE, who will assure that each document is checked by three personnel continually throughout the design process. The first review will be by the project engineer who will ensure that the goals of the client have been met with regard to their expectations. The second review will address the adequacy of the design as it relates to applicable standards and codes. The third and final review will address the constructability of the design as offered. He will keep a close eye on the project timeline in order to guarantee all work is completed by the predetermined time schedule.

L&W and VE understand that cost awareness is key to any project. Daniel will monitor the bi-weekly billing of the project keeping in mind the percentage of completed work versus the percentage of the total work billed to ensure the project is on schedule and within budget.

The design schedule with percentage of work completed is as follows:

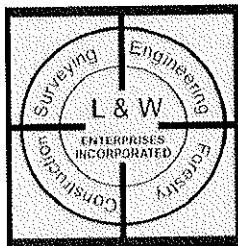
- Completion of Schematic Design (SD) 15%
- Completion of Design Development (DD) 40%
- Completion of Construction Documents (CD) 100%

All work done on the project by the project engineer will be closely monitored by the design project manager in order to create a quality product that meets or exceed the client's goals and expectations.

*Work Force
Available*

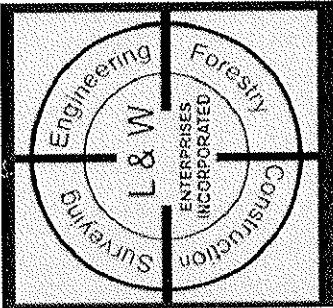
*Charleston Complex
Access Road and
Utility Upgrades*

#DEFK 11024



L&W and Valley Engineering's team of qualified professionals can be categorized into the following disciplines, though many are trained in multiple disciplines. The Team offers that any project pursued will have the necessary staff dedicated to that project to ensure its success.

DISCIPLINE	LICENSED	UNLICENSED
Principals	2	1
Civil Engineers	4	1
Traffic Engineers	1	
Structural Engineers	2	
Mechanical Engineers	3	2
Electrical Engineers	1	2
Surveyors (Office)	2	2
Surveyors (Field)		3
Designers/Drafters		6
Administration/IT		1
Marketing		1



State of West Virginia
Charleston Complex Access Road
and Utility Upgrades

Charles "Kirk" Wilson, PE
Project Manager
President
L & W Enterprises

L & W Enterprises
Curtis Kepfinger, LS
Surveying

Valley Engineering
Daniel K. Michael, PE
Partner, Principal-In-Charge

Carl L. Snyder, PE
Director of Civil Engineering

Survey Crew

Jeffrey W. Hawk, PE
Civil Project Engineer
VESP Petersburg, WV Office





Charles "Kirk" Wilson,
PE
President

Education

- Bachelor of Science, Civil Engineering
- West Virginia University - 1985
- Master of Engineering, Environmental Engineering
- Penn State University - 1991

Licensure

- Engineering - West Virginia
- Home Inspector - West Virginia

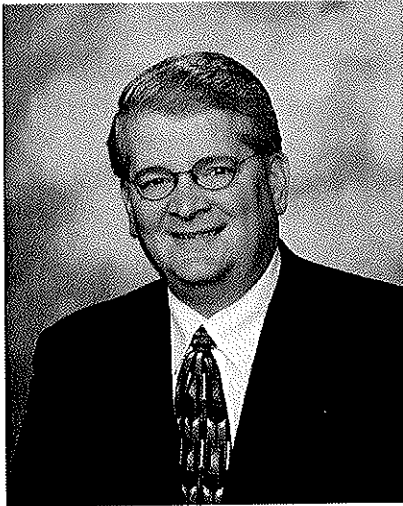
Kirk has experience in Facilities Engineering Command managing design and construction operations, budget and policy for six Engineering Field Divisions around the globe with a total annual work in place of over \$1.2 Billion.

July 1996 to November 1998 - Officer in Charge of Construction US Naval Base Guantanamo Bay, Cuba leading a 25 person office in the design, advertising, award, construction management and inspection of construction and service contracts supporting the base and valued at over \$120 Million.

Kirk Spent three years as an independent small business owner of an 8-15 person Surveying, Engineering, Timber, Construction Management and Real Estate Development business. L&W Enterprises, Inc. is a family owned and operated business started in 1962 with extensive experience in all facets of real property development on projects large and small. Some of the projects were Points of View Subdivision (531 acres), Bluffs on the Potomac Subdivision (5400+ acres), Section 3 of Point Subdivision (45 acres). Designs included subdivision layout, roads, DEP permitting, water and sewer and construction management and inspection.

Twenty-two years of experience as a Navy Civil Engineer Corps Officer serving as a Seabee Company Officer, Facilities Construction, Maintenance, Contracting and Staff Officer at Naval Bases throughout the United States, Central and South America, Korea and Japan.

- o August 2003 to November 2005 – Military Advisor to the Deputy Under Secretary of Defense for Installations and Environment (DUSD (I&E))
- o April 2001 to August 2003- Public Works Officer/Officer in Charge of Construction, Naval Air Station Lemoore, CA from, led a large construction and maintenance team in the budgeting, planning, contracting and construction management of projects in excess of \$200 Million to support 16 F-18 Strike Fighter Squadrons.
- o November 1998 to April 2001 – Assistant Operations Officer and Director of Field Operations, for the Naval



Daniel K. Michael, PE
Partner, Principal-In-Charge

Education

- Bachelor of Science, Civil Engineering
- West Virginia Institute of Technology - 1989

Licensure

- Engineering - Virginia - 1996
- Engineering - Pennsylvania - 1998
- Engineering - West Virginia - 2000
- Engineering - Maryland - 2009
- Engineering - Kentucky - 2009
- Engineering - North Carolina - 2009
- Engineering - Tennessee - 2009
- Engineering - Colorado - 2010

Years Experience

- VE: Started Valley Engineering in 1997 - Present
- Neff Enterprises: 1995 - 1997
- City of Harrisonburg: 1992 - 1995
- Copper & Associates: 1990 - 1992
- WV Dept. of Highways: 1986 - 1988

Professional and Community Affiliations

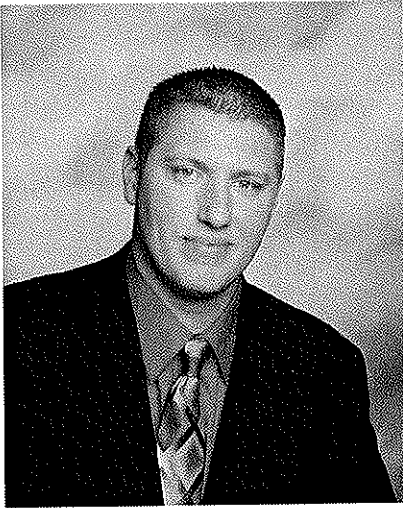
- American Society For Healthcare Engineering
- American Society of Civil Engineers
- National Society of Professional Engineers
- Numerous boards and committees serving the local area

Mr. Michael has extensive experience in the field of civil engineering with a majority of that time dedicated to the design of public and private infrastructure improvements and site specific improvement plans. He has designed or overseen the design and reviewed projects ranging from building additions to multi-year, multi-million dollar resort additions and expansions.

Mr. Michael ensures that the service and advice that the project team provides results in the achievement of the plans and goals of his client. He leads his team of engineers, planners, and surveyors in the mission to provide, through value engineering, constructability that produces long-term, quality solutions while at the same time saving the client time and money.

Mr. Michael's professional experience includes:

- Client and Project Management
 - Meeting with the client to discuss and understand their objectives and expectations
 - Leading the team to ensure the client's goals align with those of the design professionals
- Economic Development
 - Assist both public and private entities to develop financing, refinancing, or equity partnerships
 - Assist marketing of projects through existing relationships with local, state, and national organizations and retailers
 - PPEA development and submittal
- Site Design and Related
 - Utility/Distribution Layout, Design and Analysis
 - Erosion Control and Stormwater Management Plans
 - Roadway Layout and Pavement Design
 - Site Assessments/Evaluations
 - Master Plan Preparation
 - Professional Witness
 - Grading Plans
- Floodplain Management
 - CLOMA/R and LOMA/R Preparation and Submittal
 - Floodplain Determination
 - Floodway Delineation
 - ProHEC-2 Proficient



Carl L Snyder, Jr., PE
Director of Civil Engineering

Education

- Bachelor of Science, Civil Engineering
- Virginia Tech - 2002

Licensure

- Engineering - Virginia - 2007
- Engineering - West Virginia - 2008
- Engineering - Maryland - 2009
- Engineering - Tennessee - 2009

Years Experience

- VE: 2004- Present
- Virginia Dept. of Transportation: 2001 - 2004

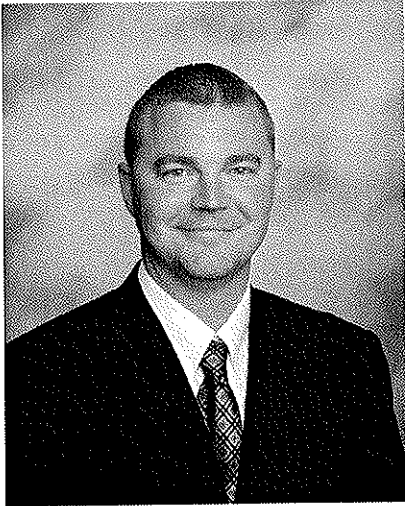
Professional and Community Affiliations

- American Society of Civil Engineers
- National Society of Professional Engineers

Mr. Snyder has experience in both the private and public sectors of civil engineering. He has valuable design experience on projects ranging from single commercial lot development to large industrial facilities and large residential subdivisions. He works closely with the client, appropriate regulatory agencies, and all members of the design team to ensure a safe, quality product which meets or exceeds the client's expectations is delivered.

Mr. Snyder's professional experience includes:

- Project Management
 - Works closely with the client and provides project status updates
 - Project coordination with architects and other design professionals
 - Coordination with regulatory agencies to ensure a constructible product is prepared which is in compliance with all applicable standards
 - Construction Management: shop drawing review, construction observation, client and contractor project coordination meetings
- Land Development/Site Design
 - Utility/Distribution Layout and Design
 - Grading Plans (Balance Cut and Fill)
 - Water System Analysis and Design
 - Pump Station Design and Analysis
 - Erosion and Sediment Control Plans
 - Stormwater Management
 - Value Engineering
 - ADA Compliance
 - LEED Compliance
 - Sanitary Sewer
 - Water Quality
 - Fire Coverage
 - Storm Sewer
- Roadway Design/Traffic Analysis
 - Roadway Capacity/Turn-Lane Analysis
 - Vertical and Horizontal Alignment



Jeffrey W. Hawk, PE
Civil Engineer

Education

- Bachelor of Science, Civil Engineering
- Fairmont State College - 2000

Licensure

- Engineering - West Virginia - 2009
- Engineering - Virginia - 2010

Years Experience

- VE: 2000 - Present

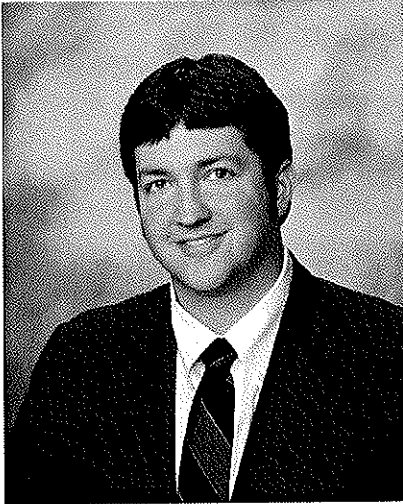
Professional and Community Affiliations

- American Society of Civil Engineers

Mr. Hawk is responsible for plan development and design for healthcare, residential, commercial, and business sites. He manages projects from conception to completion. He specializes in engineering design and analysis, cost estimates, and the design of public and private infrastructure.

Mr. Hawk's design experience includes:

- Project Management
 - Works closely with the client and provides updates of project status
 - Project coordination with architects and other design professionals
 - Coordination with regulatory agencies to ensure a feasible design is provided which is in compliance with all applicable standards
 - Construction Management: shop drawing review, construction observation, client and contractor project coordination meetings
- Land Development/Site Design
 - Utility/Distribution Layout and Design
 - Grading Plans (Balance Cut and Fill)
 - Water System Analysis and Design
 - Pump Station Design and Analysis
 - Erosion and Sediment Control Plans
 - Stormwater Management
 - Value Engineering
 - ADA Compliance
 - LEED Compliance
 - Sanitary Sewer
 - Water Quality
 - Fire Coverage
 - Storm Sewer
- Roadway Design/Traffic Analysis
 - Roadway Capacity/Turn-Lane Analysis
 - Vertical and Horizontal Alignment
 - Pavement Design
 - Parking Analysis



Seth O. Roderick, PE
Director of Planning and
Transportation

Education

- Bachelor of Science, Civil Engineering
- Virginia Tech - 2002

Licensure

- Engineering - Virginia - 2005
- Engineering - West Virginia - 2009

Years Experience

- VE: 2003- Present
- Anderson & Associates: 2002 - 2003
- Federal Highway Administration: 1999 - 2001

Professional and Community Affiliations

- American Society of Civil Engineers
- National Society of Professional Engineers

Mr. Roderick has experience in both the private and public sectors of planning and civil engineering. He has led the design of projects ranging from single commercial lots to large residential subdivisions and from new roadway layout and design to expansive roadway upgrading and rehabilitation. His obligation is to the client, the project, the reviewing agencies, and the public at large to produce a competent, quality product that will prove to be a benefit to all.

Mr. Roderick's professional experience includes:

- Project Management
 - Work hand-in-hand with reviewing agencies to ensure a competent product is presented in compliance with all applicable standards
 - Set and meet realistic budget/time constraints
 - Work closely with the client to properly serve their needs and keep them informed
 - Assist client in negotiations with approving authorities with regard to requested off-site improvements, etc.
- Transportation Engineering
 - Traffic Impact Analyses (TIAs)
 - Roadway Design/Construction Plans
 - Pavement Design
 - Traffic Signal Warrant Analyses
 - Signal Installation Plans
 - Roadway Signage and Striping Plans
- Land Planning/Site Design
 - Rezoning
 - Special Use Permits
 - Comprehensive Plan Amendments
 - Site Layouts
 - Preliminary Grading Plans
 - Value Engineering



WYK ASSOCIATES, INC.
ARCHITECTURE · PLANNING

James B. Swiger, AIA, LEED AP – President
William E. Yoke, Jr., AIA – Senior Principal



Who We Are:

- WYK Associates, Inc. is a full service architectural and planning firm serving a wide variety of commercial, religious, educational, civic and industrial clientele. Carleton Wood, Jr. was a third generation architect. His grandfather's firm had roots in North Central West Virginia dating back to the early twentieth century. William Yoke, Jr. and Howard Kelley partnered with Mr. Wood in 1974 to form WYK Associates, Inc. Our archives are filled with a century's worth of historic work.
- Mr. William Yoke, Senior Principal and Past President of the firm, has been a partner with the company since 1974.
- Mr. James Swiger joined WYK Associates, Inc. in 2005 and was named President and Principal-In-Charge of the firm in 2011.

Our Project Philosophy:

- **COMMUNICATION & TEAMWORK** are our guide words for each project. Our client's requirements for quality, service and value are the driving force behind each decision.
- Through collaboration with engineering consultants we address the needs and schedule requirements of each client.
- We provide thorough planning in all areas of each project to fit the individual requirements for a positive impact on both the natural and built environments. Energy conservation and product safety are very important concerns.

Project Management:

- We carefully evaluate the client's program, design concerns, budget, funding sources, and other available data to assure a clear understanding of each project.
- We incorporate input from our client and consultants to establish the budget and schedule. These facets are updated during each stage of project development to insure our client's parameters are met.
- WYK's principals engage and manage the entire project team, from concept through occupancy. WYK Associates, Inc. has an outstanding reputation for providing construction administration services along with maintaining an excellent rapport with contractors.



WYK ASSOCIATES, INC.
ARCHITECTURE · PLANNING

James B. Swiger, AIA, NCARB
President & Principal-In-Charge



EMPLOYMENT SUMMARY

WYK Associates, Inc.	2005 - Present
Blackwood Associates, Inc.	2000 - 2005
Gegner Architects	1997 - 2000
WYK Associates, Inc.	1996 - 1997

EDUCATION

Bachelor of Architecture -1996
University of Tennessee
Knoxville, Tennessee

ARCHITECTURAL REGISTRATION

West Virginia	(Registration # 3640)
National Council of Architects	(Registration #58982)

PROFESSIONAL AFFILIATIONS

American Institute of Architects
AIA-West Virginia – Director 2010 – Board of Directors
U.S. Green Building Council Accredited Professional
National Council of Architectural Registration Boards
National Trust for Historic Preservation
National Fire Protection Agency (NFPA)
Builder's Supply Association of WV - Affiliate Member
WV Society for Healthcare Engineering - Associate Member

CIVIC AFFILIATIONS

United Way of Harrison County, Inc. – Board of Directors
Kiwanis Club of Clarksburg – 2008/2009 President
West Virginia Kiwanis District – District 3 – Immediate Past Lieutenant Governor
Clarksburg Elks Lodge
Harrison County Chamber of Commerce - Education Committee
Salem Elementary School Nature/Fitness Trail – Project Manager
Salem International University Auxiliary
Salem Area Chamber of Commerce

HONORS & AWARDS

2010-11 Cambridge Who's Who Honored Member
2009 WV Kiwanis District Governor's Award for "Promoting Membership Growth"
2008 Volunteer of the Year – Harrison County Chamber of Commerce
Selected "Generation Next: 40 Under 40" by the West Virginia State Journal in 2008
2008 Strathmore's Who's Who Worldwide Recipient
2008 Merit Award in Architecture from AIA-West Virginia for the
West Pike Street Parking Facility in Clarksburg, WV (Co-Design Architect)

Selected Projects

**Gassaway Depot
Renovations**
Gassaway, WV

**Addition to Dominion
Exploration & Production**
Jane Lew, WV

**Pocahontas County
Courthouse Renovations**
Marlinton, WV

**West Pike Street Parking
Facility in Historic District**
Clarksburg, WV

***Stonewall Resort Lodge**
Roanoke, WV

***Historic Renovations to
Waldomere for
Clarksburg- Harrison
Public Library**
Clarksburg, WV

*Denotes Prior Experience



WYK ASSOCIATES, INC.
ARCHITECTURE · PLANNING

West Virginia Army National Guard Fixed Wing Training Site North Central WV Airport, Bridgeport, WV

West Virginia National Guard Armory Board

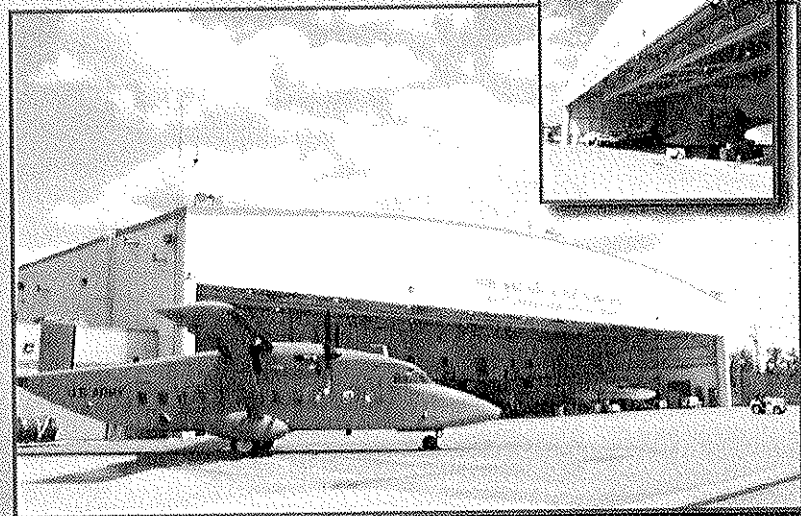
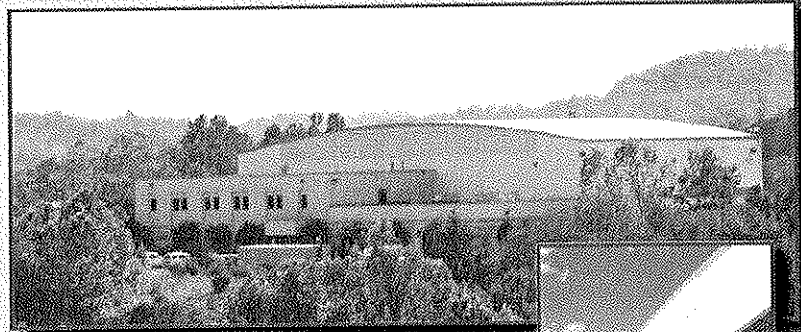
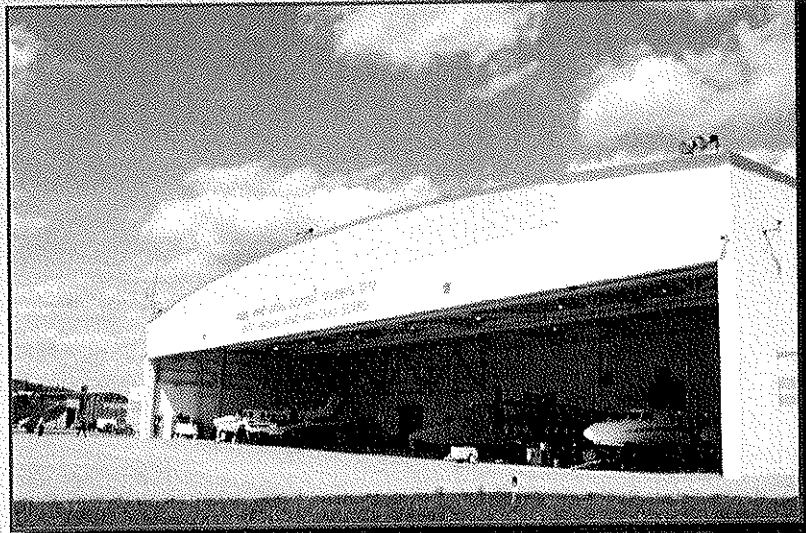
Size: 37,000 S.F.

210' Clear Span Opening
30' Tall Vertical Lift Doors

With Sponsorship from Senator Robert C. Byrd, the West Virginia National Guard established the state of the art personnel training facility totaling \$6.4 million in construction costs in 1996. Here students and instructor pilots from the fifty states and Guam train and certify on three different types of transport aircraft.

A wide hangar and an innovative hangar door system allow quick access to any one of five airplanes without disturbing other aircraft. Each aircraft has a dedicated manufacturer's support and maintenance team with their own work space. The two story masonry annex accommodates administration staff, instructor pilots, and instruction/simulator rooms.

The hangar proper is a steel frame structure with a clear span of the entire 210 foot hangar width. A prefinished insulated metal wall system with translucent thermal panels provides glare-free natural light with little or no maintenance. This was a part of the project's energy cost containment plan.





WYK ASSOCIATES, INC.
ARCHITECTURE · PLANNING

West Virginia Air Center North Central WV Airport - Bridgeport, WV

West Virginia Air Center

Size: 146,000 S.F.

34' Eave Height

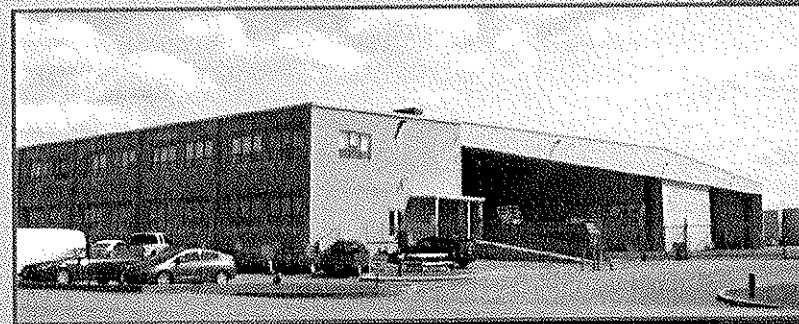
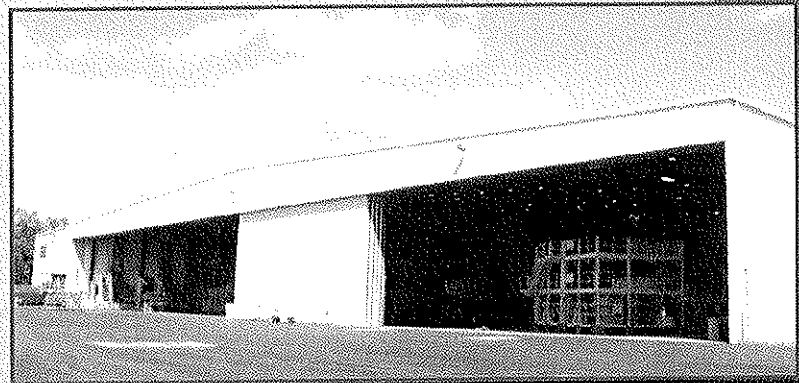
28' Tall Doors

280' Spanned Opening

The building designed for the West Virginia Air Center is now occupied by Bombardier Services America Corp. The facility houses a complete aircraft maintenance facility which services mid-sized airplanes for both private airlines and the military. The building features four large aircraft maintenance bays which can accommodate up to a dozen aircraft for all types of maintenance and retrofit services.

The center has shops to support all phases of aircraft maintenance including interior finishes, composite materials, avionics and electronics and machine tooling. One bay is specifically designed for the removal and application of paint, and the building has state of the art fire protection and hazardous material collection systems. The modern office and support facilities offer unique views of the maintenance bays, and afford all employees an opportunity to observe the extensive and detailed work as the airplanes are torn down and rebuilt.

The project was completed in just over 14 months using a fast track construction management approach. The construction manager, all contractors, the owners representatives and the design team worked very closely to assure that all project milestones were met.





WYK ASSOCIATES, INC.
ARCHITECTURE · PLANNING

FBO Hangar and Training Facility North Central WV Airport - Bridgeport, West Virginia

West Virginia Air Center

Size: 31,500 S.F.

180' x 150'
26' Eave height
22' Tall Doors
110' Door Opening

This Facility was designed to house the Fixed Base Operator at Harrison - Marion Regional Airport. There are approximately 25,000 S.F. of hangar space used for the maintenance and storage of private aircraft and for shops needed by the maintenance staff. The administrative section of the FBO Facility includes offices, service facilities for pilots including waiting areas, flight planning spaces, and employee support facilities including accessible and complete shower and locker rooms.

The second floor of the administrative area houses classrooms, meeting rooms and other facilities for a flight school to train fledgling pilots. The various facilities housed in the FBO Facility combine services that were housed in several separate facilities. This facility allowed the Fixed Base Operator to expand and improve the services offered to the area's pilots and to our many visitors.

