APRIL 2, 2013

Statement of Oualifications

ORIGINAL PARKER RUN PROJECT DESIGN DEP16158

MARION COUNTY, WEST VIRGINIA



04/02/13 10:13:51 AM 'West Virginia Purchasing Division

E.L. Robinson Engineering Co. 5088 Washington Street West Charleston, West Virginia 25313 Phone: (304) 776-7473 www.elrobinsonengineering.com



VENDOR

RFQ COPY

TYPE NAME/ADDRESS HERE

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

Solicitation

NUMBER			i i	ì		
DEP16	5	1.	1	5 8	3	

PAGE	1.

ADDRESS CORRESPONDENCE TO ATTENTION OF:

ADDRESS CHANGES TO BE NOTED ABOVE

FRANK WHITTAKER 304-558-2316

BH

ENVIRONMENTAL PROTECTION DEPARTMENT OF OFFICE OF AML&R 601 57TH STREET SE CHARLESTON, WV 25304 304-926-0499

DATE PRINTED 02/27/2013 BID OPENING DATE: BID OPENING TIME 1:30PM 04/02/2013 AMOUNT LINE TIEM NUMBER UNIT PRICE QUANTITY UOP NO. JB 906-29 0001 1 DESIGN PARKER RUN PROJECT EXPRESSION OF INTEREST THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ENGINEERING DESIGN SERVICES AND CONSTRUCTION MONITORING SERVICES AT THE PARKER RUN PROJECT IN MARION COUNTY, WEST VIRGINIA, PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS. THIS IS THE END OF REO DEP16158 ***** TOTAL: TELEPHONE SIGNATURE 776.7473

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

55 059 4633





5088 Washington St. West Charleston, WV 25313 elrobinsonengineering.com

April 2, 2013

West Virginia Department of Environmental Protection Office of AML & R 601 57th Street Charleston, WV 25304

Attn: Joe Reppy, Acting Chief

Re: Parker Run Project

DEP16158

Expression of Interest

Dear Mr. Reppy:

E. L. Robinson Engineering Co. (ELR) is pleased to submit this proposal in response to your request to perform professional engineering design services, and construction monitoring services associated with the design of the Parker Run design project located in Marion County.

We have completed plans and specifications for numerous reclamation and waterline projects for WVDEP/AML over fourteen years. In addition, we have completed numerous projects with ODNR. We have descriptions of these projects in the attached proposal. Please note that all of the staff that worked on these projects are still with ELR.

The ELR staff has combined experience in the design of more than 226 AML projects.

We are able to assemble multiple design teams with our current staff. The Charleston office has:

- A. Fourteen (14) registered professional engineers (civil or mining), two (2) geologists, two (2) Landscape architects, four (4) engineers in training as well as several CADD technicians that may be used on these teams.
- B. ELR Corporate experience in designing nearly sixty-eight (68) abandoned mine land remediation projects. Personal experience on approximately two hundred twenty-six (226) AML projects. This number does not include surveying/mapping/drilling projects.

E. L. Robinson Engineering Co. has grown from 13 employees in 1996 to over 110 employees today. Throughout this growth period we have continued to meet project deadlines while providing a high quality engineering product.

In 2012, ELR was named to the Engineering News Record (ENR) 500 at number 485. This prestigious honor is reserved for the top performing civil engineering companies throughout the country. ELR is one of the few West Virginia based firms ever to be included on this list.

We have also recently opened offices in Bridgeport, WV and Cleveland, OH.

Our office location in Charleston is centrally and conveniently located in respect to the WVDEP offices and the referenced project.

We at E.L. Robinson Engineering Co. look forward to serving your agency under this contract. If you have any questions or need clarification, please feel free to contact me at (304) 776-7473.

Sincerely,

E. L. Robinson Engineering Co.

By:

Eric J Coberly, P.E.

Project Manager



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Aerial Photography and Contour Mapping
Key Personnel
AML & RPEMAttachment C
Certification and Signature Page



Executive Summary

For more than 14 years, E.L. Robinson Engineering Company has been a prime and preferred engineering and surveying consultant to the WV Division of Environmental Protection, Office of Abandoned Mine Lands and Reclamation (WVDEP/AML) program. We have provided this Executive Summary to directly respond to the Expression of Interest and provide ease for the evaluators to score this proposal.

Understanding of Project Requirements

E.L. Robinson Engineering Co. fully understands the requirements for this project and is committed to giving the WVDEP/Office of Abandoned Mine Lands and Reclamation the time and attention that is necessary for the reclamation project. Professional services may include: civil; structural; geological; surveying and mapping; preparation of all necessary permit applications; construction monitoring and other services that may be required.

Firm's Capacity

E.L. Robinson Engineering Co. approaches all engineering projects with the same attention to detail and fiscal responsibility to ensure the client receives the most cost effective plan, design and operationally functional project possible. Our approach truly makes the WVDEP/AML engineering staff an integral part in the design of the project. We want to make sure that the review staff is comfortable with the design concept before the project is submitted for review. During this process, we evaluate all technical alternatives to determine the most cost effective plan and technically acceptable project for the WVDEP/AML staff.

E.L. Robinson Engineering Co. has more than 50 professionals on staff and individuals experienced in mine reclamation. This capacity allows for the development of innovative and alternative methods to address complex issues involved in reclamation projects of this nature. Our QA/QC process also allows for a different perspective to be brought to the project before submission to the client and for review. E.L. Robinson Engineering Co. has the capacity to take this project from conception to completion with a wide variety of experienced professionals with in-house staff for planning, design, permitting, bidding and construction monitoring.

E.L. Robinson Engineering Co. will work diligently to deliver the highest quality, cost effective solution that the WVDEP/AML deserves. We have extensive knowledge in mine reclamation and are currently working with WVDEP/AML on similar projects. We have an excellent understanding of the requirements for this type of project and a good working relationship with NEPA, permitting and regulatory issues.



Project Approach

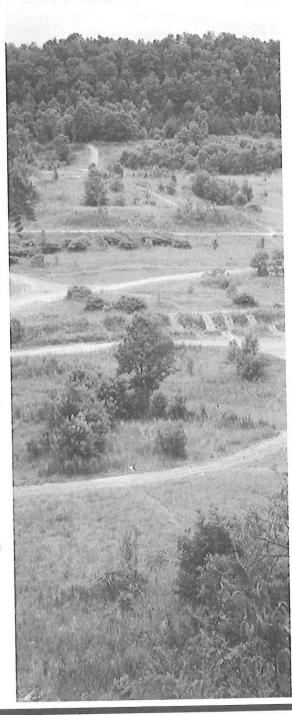
E.L. Robinson is familiar with the project area and the type of project for which you are seeking engineering services. We believe that we have a thorough understanding of the work to be provided to the WVDEP/AML for the subject reclamation project.

We are anxious to become an extension of your staff by providing prompt planning, design and construction monitoring services as needed. We interact with the various review and permitting agencies. As you will see from our resumes, we are uniquely diversified to provide quality engineering services to your agency.

E.L. Robinson will work closely with the WVDEP/AML and all regulatory and permitting agencies to complete this project. We feel that our extensive knowledge and experience in the planning and design of similar projects are significant assets in developing a cost-effective solution to your reclamation project.

The scope of services will include but are not limited to:

- Conceptual engineering and identification of permitting requirements
- Surveying and contour mapping
- Geotechnical services
- Design
- Preparation of plans and specifications
- Participation in the pre-bid meeting
- Participation in the pre-construction meeting
- Preparation of all necessary permit applications
- Construction monitoring
- Other services that may be required by the WVDEP/AML





Our Team

Our firm has put together a project team that is experienced in the design and construction of mine reclamation projects and has the capacity to perform the project's scope in a timely and efficient manner.

Mr. Eric Coberly, P.E. will be assigned as the Project Manager.

Mr. Rich Watts, P.G. will be assigned as the Project Geologist, and will assist in design and quality control.

Mr. John Kelly, II, E.I. will be assigned the CADD designer and principal production person for the project. He has performed this role for numerous mine reclamation projects.

Mr. Timothy Cart, P.E., Mr. Randall Lackey, P.E. and Mr. Mark McGettigan, P.E. will be assigned as the Project Engineers.

Mr. James Rayburn, P.S. will be assigned to oversee all surveying and mapping activities.

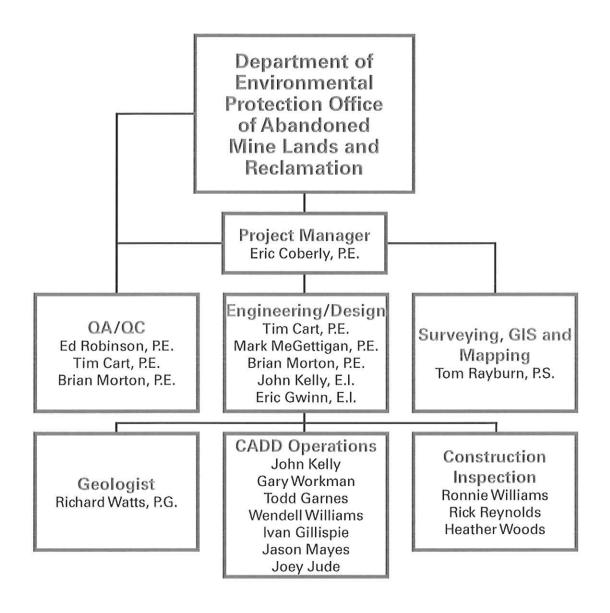
Our staff is well-qualified and experienced in related reclamation projects. They have the knowledge and capabilities to perform all of the tasks required for your project. In addition to your primary project team, other members of our organization may be called upon from time to time to provide their expertise and assistance to ensure this important project is completed on time and on budget.

Our team of construction inspectors, led by Ronnie Williams, offers years of experience with construction monitoring.

Also, our team of surveyors, managed by James Rayburn, P.S., provides the WVDEP/AML with the latest in technology and experience in surveying and mapping. By using GIS-based mapping and high-tech instrumentation, E.L. Robinson's survey team can evaluate any type of surface. Other services pertaining to surveying that our company specializes in are aerial photogrammetric consulting, hydrographic surveying, land surveying and GPS surveying.



Our Team





Our Capabilities

Over the past 30 years, E.L. Robinson Engineering Co. has focused its efforts on delivering quality projects to our clients and building strong relationships based on trust and partnership. We believe building lasting relationships with our clients is key to delivering exceptional service for many years to come.

E.L. Robinson provides WVDEP/AML with the capabilities, expertise and resources of one of the top-notched civil engineering firms in the region. Our offices are staffed with professionals experienced in AML reclamation mapping, permitting, design and construction monitoring projects with more than 50 employees, including 13 registered professional engineers, degreed design engineers, construction inspectors and a support team of administrative and technical personnel to assist the WVDEP/AML.

We are very familiar with the requirements of the permitting and regulatory agencies. This experience expedites the completion of projects.

As part of our commitment to quality, E.L. Robinson realizes that every project, client and location is very different. As a result, we look at each project independently to determine the most cost-effective solution. Specifically, we look at ways we can maximize the project benefit and minimize the construction cost while at the same time completing projects on time and within budget.





Previous Experience

E.L. Robinson is well-qualified and experienced in mine reclamation projects. We are very familiar with the requirements of the project. We have demonstrated abilities in developing practical and cost-effective reclamation and improvement projects and are dedicated to meeting project schedules and budgets.

Such demonstrations can be seen in our recent and past work on reclamation projects, including:

- Thorpe Refuse Pile -2011
- Abney Refuse Piles 2011
- Shinnston-Lumberport Subsidence 2011
- Keaton Branch Complex
 2010
- Gordon "C" Refuse 2010
- Newtown-Kinder Portals 2010
- Island Creek #18 Mine Complex –2010
- Keystone (Avery) Landslide and Portal –2010
- Jacob's Fork Complex –2008
- Rhodell Refuse and Portals –October 2008
- Gilmer B Sites 3-8 –2008
- Ohio DNR Emergency Reclamation 19 sites completed
- Toney Fork Landslide Emergency –2006



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AI	IL CONSUI	TANT CONFIDENT	TIA QUALIFICATION Q	UESTIONN	AIRE Attach_nt "	'B"
PROJECT NAME Parker Run Project DEP16158		DATE (DAY, MONTH March 7, 2013	H, YEAR)	FEIN 55-059463	3	
1. FIRM NAME E.L. Robinson Engineering Co.		2. HOME OFFICE F 5088 Washington Charleston, WV 2		3. FORMER	FIRM NAME	
4. HOME OFFICE TELEPHONE 304-776-7473	5. ESTABL 1978	ISHED (YEAR)	6. TYPE OWNERSHIP Individual x Corpor Partnership Joint-V		6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES x NO	
7. PRIMARY AML DESIGN OFFICE: 5088 Washington Street, West Charleston, WV 25313			y, P.E./57 Staff in Char	leston Are	a	
8. NAMES OF PRINCIPAL OFFICER Ed Robinson, P.E. 304 776-747		RS OF FIRM	8a. NAME, TITLE, & TELE	PHONE NUMB	ER - OTHER PRINCIPALS	
9. PERSONNEL BY DISCIPLINE						
ARCHITECTS	<pre>— ESTIMA 2 GEOLOG</pre>	ISTS ICAL ENGINEERS NMENTALISTS TORS ISTS IANS	2 LANDSCAPE ARCHIT — MECHANICAL ENGIN 1 MINING ENGINEERS — PHOTOGRAMMETRIST PLANNERS: URBAN/ — SANITARY ENGINEE 1 SOILS ENGINEERS — SPECIFICATION WRITERS	EERS S REGIONAL	6 STRUCTURAL ENGINEERS 7 SURVEYORS — TRAFFIC ENGINEERS — OTHER 57 TOTAL PERSONNEL	
	and Mining	must provide sur	ERS IN PRIMARY OFFICE:		ies them to	
10. HAS THIS JOINT-VENTURE WO	RKED TOGET	HER BEFORE?	YES NO X This	is not app	licable	

Que lonnaire" for each if copy	SPECIALTY:	Attach "AML Consultant Confidential Qual ication WORKED WITH BEFORE
AME AND ADDRESS:	Drilling	
La Farinamental (NGF)	Dilling	<u>X</u> YES
Novel Geo – Environmental (NGE)		NO
06 B Street, St. Albans, WV		WORKED WITH BEFORE
NAME AND ADDRESS:	SPECIALTY:	
		YES
		NO
		WORKED WITH BEFORE
NAME AND ADDRESS:	SPECIALTY:	WORKED
		YES
		NO
		WORKED WITH BEFORE
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BELOTE
		YES
		NO
		WORKED WITH BEFORE
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH DEFO
		YES
	4	NO
		WORKED WITH BEFORE
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH 22 32
		YES
		NO
		NO WORKED WITH BEFORE
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH DEFORM
TATALET TO THE TATALE		YES
		NO WORKED WITH BEFORE
NAME AND ADDRESS:	SPECIALTY:	WURKED WITH BLI ONL
IVANIL IN I I I I I I I I I I I I I I I I I		YES
		NO WORKED WITH BEFORE
NAME AND ADDRESS:	SPECIALTY:	WURKED WITH BETOKE
MANUE AND ADDICESS.		YES
		NO

12.	A		Is your firm experienced in Abandoned Mine Lan Remediation/Mine Reclamation Engineering?
		X	YES Description and Number of Projects: Eighty-nine (89) Projects - See Attached Sheet
		\ - s	NO
	в.	8	Is your firm experienced in Soil Analysis?
		<u>X</u>	YES Description and Number of Projects: Eighteen (18) Projects Listed - See attached Sheet
		_	NO
	C.		Is your firm experienced in hydrology and hydraulics?
		X	YES Description and Number of Projects: Ten (10) Projects Listed - See attached sheet
		_	NO
	D.	y.	Does your firm produce its own Aerial Photography and Develop Contour Mapping?
		X	YES Description and Number of Projects: > 200 - in Firm History - 65 Recent Projects Listed
			All ELR WV & OH AML Projects since 2003 have been surveyed with ELR Surveying Staff
		-	NO
	E.	2	Is your firm experienced in domestic waterline design? (Include any experience your firm has in evaluation of aquifer degradation as a result of mining.)
		X	YES Description and Number of Projects: Sixty-eight (68) Total Eleven (11) Domestic Waterline Experience (AML Related) Thirty-two (32) Evaluation of Aquifer Degradation Twenty Five (25) Non-AML Domestic Water Lines
			NO
	F.		Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?
		<u>X</u>	YES Description and Number of Projects: Seven (7) Projects
		-	NO

3. PERSONAL HISTORY STATEMENT	OF DRINCIPALS AND ASSOCIATES F	RESPONSIBLE FOR AML PROJECT	DESIGN (Furnish complete
 PERSUNAL HISTORY STATEMENT data but keep to essentials)	OF TYPED LENGE	
AME & TITLE (Last, First, Middle		YEARS OF EXPERIENCE	THE STATE OF THE S
nt.)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 34
dward L. Robinson, President	12	26	J.4.
Brief Explanation of Responsibi	lities		wars where he reviewed
Brief Explanation of Responsible for Responsib	and a supplier control on all pr	ojects designed by this firm	earches, aerial mapping and n for the past 25 years.
EDUCATION (Degree, Year, Specia	alization)		
Bachelor of Science 1969 Civil Master of Science 1981 Civil	Engineering Engineering	Work Work	State)
MEMBERSHIP IN PROFESSIONAL ORG	ANIZATIONS	REGISTRATION (Type, Year,	geace,
American Society of Civil Engi	neers - Past President WV g Companies	1975 Civil Engineering Registered in West Virgini Professional Licensed Surv	AVOL NO. TIDO
National Society of Profession 13. PERSONAL HISTORY STATEMENT	al Engineers	RESPONSIBLE FOR AML PROJECT	DESIGN (Furnish complete data
13 PERSONAL HISTORY STATEMENT	OF PRINCIPALS AND ASSOCIATES	1010101	
but keep to essentials)		YEARS OF EXPERIENCE	
NAME & TITLE (Last, First, Middle Int.)	YEARS OF AML DESIGN EXPERIENCE:	EXPERIENCE.	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Richard W. Watts, P.G.	29	34	1
Brief Explanation of Responsik Mr. Watts has served as project include project management, fi analysis, specification writin Projects included surface and	ng, quantity determinations, c deep mine reclamation, subsid	ty (90) abandoned mine land coordination, laboratory tesost estimates, pre-bid and rence, AMD treatment and water	projects. Responsibilities sting and analysis, stability pre-construction meetings. erline feasibility studies.
EDUCATION (Degree, Year, Spect B.S./1977/Geology	ialization)		
M.S./1994/Geography		REGISTRATION (Type, Year,	

13. PER AL HISTORY STATEMENT data but keep to essentials	OF PRINCIPALS AND ASSOCIATE	ESPONSIBLE FOR AML PROJECT D	ESIGN (Furnish compl
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
John Kelly II, E.I.	YEARS OF AML DESIGN EXPERIENCE: 14	YEARS OF AML RELATED DESIGN EXPERIENCE: 14	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 14
Brief Explanation of Responsibi Mr. Kelly has worked on many AM sampling of coal refuse materia plans. Estimation of quantitie Mr. Kelly has performed layout addition, he has designed cut s County, WV and Meadowbrook Road	L projects since joining ELR. ls, hydrology, hydraulics des s developed estimated cost. I and inspection of core drilli: lopes for large-scale roadway	ign of drainage structures, as Mr. Kelly is proficient with a ng operations for bridge and :	nd development of regrading Auto Cadd. roadway projects. In
EDUCATION (Degree, Year, Specia	lization)		
B.S. Civil Engineering/1998/WVU			
MEMBERSHIP IN PROFESSIONAL ORGA	NIZATIONS	REGISTRATION (Type, Year, Sta	ate)
		Engineer Intern, WV	
13. PERSONAL HISTORY STATEMENT but keep to essentials)	OF PRINCIPALS AND ASSOCIATES :	RESPONSIBLE FOR AML PROJECT D	ESIGN (Furnish complete data
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Timothy B. Cart, P.E.	YEARS OF AML DESIGN EXPERIENCE: 29	YEARS OF AML RELATED DESIGN EXPERIENCE: 29	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 22
Brief Explanation of Responsibi Mr. Cart has completed numerous materials, re-establishment of extinguishing burning materials Conducted Phase I and Phase II Mr. Cart has extensive experien has recently completed water pr Mr. Cart has performed geotechn embankments.	mine reclamation projects unvegetation cover, disposal of and disposal of old mining solutions to determine if grounce in the design and constructions in Mingo; Kanawha; Put.	acid producing materials, and tructures. Designed passive of dwater had been affected by position management of waterline mam; and Cabell counties.	d developing methods for AMD treatment systems. re-law mining. extension projects. Mr. Cart
EDUCATION (Degree, Year, Specia	lization)		
Bachelor of Science 1981 Civil	Engineering		
MEMBERSHIP IN PROFESSIONAL ORGA	NIZATIONS	REGISTRATION (Type, Year, St. Professional Engineer WV OH	ate)

data but keep to essentials	OF PRINCIPALS AND ASSOCIATE	ESPONSIBLE FOR AML PROJECT DE	ESIGN (Furnish compl
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Mark McGettigan, P.E.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 7	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibi	lities		
Mr. McGettigan has worked on se sections, estimated and checked Projects designed by E. L. Robin years. Mr. McGettigan also has experient He has also performed various con	quantity calculations. He has a nson Engineering Co. He has a nce with surveying and equipment oncrete and soil tests and is	as also served as a field insponded the lead designer on water the lead including: the odolites lead to the lead of the lead o	pector for several waterline erlines over the past five
EDUCATION (Degree, Year, Special	lization)		
B.S. Civil Engineering Technicia			
MEMBERSHIP IN PROFESSIONAL ORGAN	NIZATIONS	REGISTRATION (Type, Year, Sta	ate)
		Professional Engineer WV	
13. PERSONAL HISTORY STATEMENT (OF DRINGIPALG AND AGGOSTATES		
but keep to essentials)	OF PRINCIPALS AND ASSOCIATES :	RESPONSIBLE FOR AML PROJECT DI	ESIGN (Furnish complete data
but keep to essentials) NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	ESIGN (Furnish complete data
but keep to essentials) NAME & TITLE (Last, First, Middle	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF EXPERIENCE	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
NAME & TITLE (Last, First, Middle Int.)	YEARS OF AML DESIGN EXPERIENCE: 1 lities lics and scour for Ripley Town	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 8	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 1
NAME & TITLE (Last, First, Middle Int.) Randall L. Lackey, P.E. Brief Explanation of Responsibil Mr. Lackey has performed hydrau. Creek Bridge; Kermit Bypass Brid Mr. Lackey has also performed canalysis; prepared design study Highways projects.	YEARS OF AML DESIGN EXPERIENCE: 1 lities lics and scour for Ripley Town dge; Left Hand Fork Bridge; an alculations for deck drainage; reports; type, size and locat	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 8 n Bridge; Tallman Bridge; Mead nd Blennerhassett Bridge. : performed girder design and	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 1 dowbrook Road Bridge; Simpson
NAME & TITLE (Last, First, Middle Int.) Randall L. Lackey, P.E. Brief Explanation of Responsibing Mr. Lackey has performed hydrau. Creek Bridge; Kermit Bypass Brid Mr. Lackey has also performed canalysis; prepared design study	YEARS OF AML DESIGN EXPERIENCE: 1 lities lics and scour for Ripley Town dge; Left Hand Fork Bridge; an alculations for deck drainage; reports; type, size and locat	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 8 n Bridge; Tallman Bridge; Mead nd Blennerhassett Bridge. : performed girder design and	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 1 dowbrook Road Bridge; Simpson
NAME & TITLE (Last, First, Middle Int.) Randall L. Lackey, P.E. Brief Explanation of Responsibing Mr. Lackey has performed hydrau. Creek Bridge; Kermit Bypass Brid Mr. Lackey has also performed canalysis; prepared design study Highways projects. EDUCATION (Degree, Year, Special B.S. Civil Engineering/1999	YEARS OF AML DESIGN EXPERIENCE: 1 lities lics and scour for Ripley Town dge; Left Hand Fork Bridge; ar alculations for deck drainage; reports; type, size and locat lization)	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 8 n Bridge; Tallman Bridge; Mead nd Blennerhassett Bridge. : performed girder design and	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 1 dowbrook Road Bridge; Simpson
Dut keep to essentials) NAME & TITLE (Last, First, Middle Int.) Randall L. Lackey, P.E. Brief Explanation of Responsibing Mr. Lackey has performed hydraus Creek Bridge; Kermit Bypass Bride Mr. Lackey has also performed canalysis; prepared design study Highways projects. EDUCATION (Degree, Year, Special EDUCATION (Degree, Year, Special EDUCATION)	YEARS OF AML DESIGN EXPERIENCE: 1 lities lics and scour for Ripley Town dge; Left Hand Fork Bridge; ar alculations for deck drainage; reports; type, size and locat lization)	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 8 n Bridge; Tallman Bridge; Mead nd Blennerhassett Bridge. : performed girder design and	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 1 dowbrook Road Bridge; Simpson analysis; pier design and on many of our Division of

13. PERSONAL HISTORY STATEMENT data but keep to essentials		RESPONSIBLE FOR AML PROJECT DI	ESIGN (Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
J. Todd Garnes	YEARS OF AML DESIGN EXPERIENCE: 5	YEARS OF AML RELATED DESIGN EXPERIENCE: 5	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 6
Brief Explanation of Responsibi	lities		
Mr. Garnes experience surveying extrusions. He has provided co Mr. Garnes has performed numero mapping, mine research, and dev EDUCATION (Degree, Year, Specia A.S. Architectural Design/ 1999	nstruction inspection services us water feasibility studies, elopment of final reports. lization)	s for landsides and subsidence	e projects in Ohio.
A.S. Computer Aided Drafting an			
MEMBERSHIP IN PROFESSIONAL ORGA	NIZATIONS	REGISTRATION (Type, Year, Sta	ate)
13. PERSONAL HISTORY STATEMENT but keep to essentials)	OF PRINCIPALS AND ASSOCIATES 1	RESPONSIBLE FOR AML PROJECT D	ESIGN (Furnish complete data
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Thomas Rayburn, P.S.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
		31	
Brief Explanation of Responsibi Mr. Rayburn has experience in m types of coal mining, designed ventilation plans and systems w systems. He has performed slope stabilit applications, work with leases By utilizing "state of the art" surveys for aerial mapping and Mr. Rayburn has also performed	ine mapping and surveying, for mine drainage and water supply hich include precision pressury analysis and hydrology calculated and land management as well as electronic total stations and collects data and develops GI surveying and mapping for large	y systems for underground and re quality surveys and computer and ulations, provides computer as reclamation and environment d/or GPS (Satellite) equipments for utility mapping.	surface mines, designed mine er simulation of ventilation nalysis for mining al permits.
EDUCATION (Degree, Year, Specia	lization)		
A.S. Mechanical Engineering, WV	TT/1970		
MEMBERSHIP IN PROFESSIONAL ORGA	NIZATIONS	REGISTRATION (Type, Year, St	ate)
		Professional Surveyor WV	

13. PER AL HISTORY STATEMENT (data but keep to essentials		ESPONSIBLE FOR AML PROJECT DI	ESIGN (Furnish compl
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Scott LeRose, P.E.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 1	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibil Mr. LeRose is experienced in der Drilling Operations; Groundwate: Specific major highway design as of new four lane highway; US 52 interchanges; design of 2 mile: Corridor H from Grant/Hardy Cour While working on these projects relocation, MOT, signing and parseeding, pollution control quant development of ROW plans, include	veloping major highway and right Sampling/Monitoring; UST Remaind right of way plan developme (I-73), a 3.5 mile design and section of Appalachian Corridonty line to Moorefield. , he has gained experience in vement stripping. He has perstities, and other items associated.	moval/Replacement and Mine Perent projects include: Meadowl ROW plans for a new four landor H from Davis to Bismark; do major drainage design, site formed quantity calculations is ated with roadway plans. He	rmitting/Reclamation. brook Road, a 2 mile design highway with two major esign of 5.2 mile section of grading design, utility for pavement, drainage,
EDUCATION (Degree, Year, Special B.S. Civil Engineering/1997	lization)		
MEMBERSHIP IN PROFESSIONAL ORGA	NIZATIONS	REGISTRATION (Type, Year, Sta	ate)
		Professional Engineer WV	
13. PERSONAL HISTORY STATEMENT (but keep to essentials)	OF PRINCIPALS AND ASSOCIATES I	RESPONSIBLE FOR AML PROJECT D	ESIGN (Furnish complete data
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Ray Tilley, P.E.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
		5	31
Brief Explanation of Responsibi Mr. Tilley has over 30 years ex Mr. Tilley is a certified Water projects over his career. His EDUCATION (Degree, Year, Specia B.S. Civil Engineering/WV Tech	perience in water and wastewa Plant Operator. Mr. Tilley I current duties include managin lization)	has successfully completed number of the successful nu	merous waterline design
MEMBERSHIP IN PROFESSIONAL ORGA	NIZATIONS	REGISTRATION (Type, Year, Statement of Professional Engineer WV	ate)

		RESPONSIBLE FOR AML PROJECT I	DESIGN (Furnish comp. 3
CONTRACTOR (OF PRINCIPALS AND ASSOCIATE	RESPONSIBLE FOR APIL PROSBET	
PE: JAL HISTORY STATEMENT); ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	TOTAL	
data but keep to essentials		YEARS OF EXPERIENCE	
ME & TITLE (Last, First, Middle		THE DESIGN	YEARS OF DOMESTIC WATERLINE
.)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN	DESIGN EXPERIENCE:
2008.	YEARS OF ALL DEC	EXPERIENCE:	11
mes Eric Gwinn, E.I.	10	10	
ief Explanation of Responsibi	lities		and normit
Lef Explanation of Response	ctowliv	ne projects. He performs cal	culation and permit
ief Explanation of Responsibi . Gwinn has experience in cor	struction layout for watering	ject and the raw water intake	structure for the ray
. Gwinn has experience in corquirements. He has worked or	the Cabell County water Flo.	ons on various AML project.	inata
quirements. He has reproject.	the Cabell County Water Pro- He has performed calculations slabs, decks and extensive	detailing on several bridge p	projects.
quirements. He has worked or ateau Regional Water Project Gwinn has designed approach	slabs, decks and extensive		
OUCATION (Degree, 101)	Tratitute of Tec	hnology	
c Civil Engineering/1998/ W	est Virginia Institute of Tec		
		REGISTRATION (Type, Year,	State)
EMBERSHIP IN PROFESSIONAL ORG	ANIZATIONS	KDOTOTIMI	
EMBERSHIP IN PROFESSIONAL ONC	MACRON-Monute protess SSS		
		TOTAL PROTECT	DESIGN (Furnish complete data
	OF PRINCIPALS AND ASSOCIATES	RESPONSIBLE FOR AML PROJECT	DESIGN (Furnish complete data
3 PERSONAL HISTORY STATEMENT	OF PRINCIPALS AND ASSOCIATES	RESPONSIBLE FOR AML PROJECT	DESIGN (Furnish complete data
out keep to essentials,		RESPONSIBLE FOR AML PROJECT YEARS OF EXPERIENCE	DESIGN (Furnish complete data
out keep to essentials,		YEARS OF EMPLOYEE	VEARS OF DOMESTIC WATERLINE
OUT REED TO ESSENTIALS, JAME & TITLE (Last, First, Middle)		YEARS OF AML RELATED DESIGN	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
NUT KEED TO ESSENTIALS, NAME & TITLE (Last, First, Middle nt.)	YEARS OF AML DESIGN EXPERIENCE	YEARS OF EMPLOYEE	VEARS OF DOMESTIC WATERLINE
NUT KEED TO ESSENTIALS, NAME & TITLE (Last, First, Middle nt.)		E: YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
ut keep to essentials, AME & TITLE (Last, First, Middle nt.)	YEARS OF AML DESIGN EXPERIENCE	E: YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
ut keep to essentials, AME & TITLE (Last, First, Middle nt.)	YEARS OF AML DESIGN EXPERIENCE	E: YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
NAME & TITLE (Last, First, Middle nt.) Brian D. Morton, P.E.	YEARS OF AML DESIGN EXPERIENCE	YEARS OF EMPLATED DESIGN EXPERIENCE: 2	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12
Mut keep to essentials, [AME & TITLE (Last, First, Middle nt.) Brian D. Morton, P.E.	YEARS OF AML DESIGN EXPERIENCE	YEARS OF EMPLATED DESIGN EXPERIENCE: 2	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12
NAME & TITLE (Last, First, Middle nt.) Brian D. Morton, P.E. Brief Explanation of Responsi	YEARS OF AML DESIGN EXPERIENCE 2 bilities	YEARS OF AML RELATED DESIGN EXPERIENCE: 2	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12
NAME & TITLE (Last, First, Middle nt.) Brian D. Morton, P.E. Brief Explanation of Responsi	YEARS OF AML DESIGN EXPERIENCE 2 bilities rline extension projects in F	YEARS OF AML RELATED DESIGN EXPERIENCE: 2 Putnam and Kanawha County. H	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12 e also has completed numerous
Brief Explanation of Responsi	YEARS OF AML DESIGN EXPERIENCE 2 bilities rline extension projects in Finvolving the West Virginia	YEARS OF EMPERIENCE: 2 Putnam and Kanawha County. H Division of Highways.	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12 The also has completed numerous A ladraulic calculations for
Brief Explanation of Responsi Mr. Morton has worked on water	YEARS OF AML DESIGN EXPERIENCE 2 bilities rline extension projects in Finouving the West Virginia	YEARS OF AML RELATED DESIGN EXPERIENCE: 2 Putnam and Kanawha County. H Division of Highways.	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12 e also has completed numerous ad hydraulic calculations for Envelopment plans,
AME & TITLE (Last, First, Middle nt.) Brian D. Morton, P.E. Brief Explanation of Responsi Mr. Morton has worked on water waterline relocation projects	YEARS OF AML DESIGN EXPERIENCE 2 bilities rline extension projects in Finouving the West Virginia	YEARS OF AML RELATED DESIGN EXPERIENCE: 2 Putnam and Kanawha County. H Division of Highways.	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12 e also has completed numerous ad hydraulic calculations for Envelopment plans,
AME & TITLE (Last, First, Middle nt.) Brian D. Morton, P.E. Brief Explanation of Responsi Mr. Morton has worked on water waterline relocation projects	YEARS OF AML DESIGN EXPERIENCE 2 bilities rline extension projects in Finouving the West Virginia	YEARS OF AML RELATED DESIGN EXPERIENCE: 2 Putnam and Kanawha County. H Division of Highways.	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12 e also has completed numerous ad hydraulic calculations for Envelopment plans,
AME & TITLE (Last, First, Middle nt.) Brian D. Morton, P.E. Brief Explanation of Responsi Mr. Morton has worked on water waterline relocation projects	YEARS OF AML DESIGN EXPERIENCE 2 bilities rline extension projects in Finouving the West Virginia	YEARS OF AML RELATED DESIGN EXPERIENCE: 2 Putnam and Kanawha County. H Division of Highways.	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12 e also has completed numerous ad hydraulic calculations for Envelopment plans,
AME & TITLE (Last, First, Middle nt.) Brian D. Morton, P.E. Brief Explanation of Responsi Mr. Morton has worked on wate waterline relocation projects Mr. Morton has prepared signiculverts and other drainage specifications, bid documents	YEARS OF AML DESIGN EXPERIENCE 2 bilities rline extension projects in Finvolving the West Virginia ng and pavement marking plans structures and highway constructures and highway constructures, and has performed constructures.	YEARS OF AML RELATED DESIGN EXPERIENCE: 2 Putnam and Kanawha County. H Division of Highways.	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12 e also has completed numerous ad hydraulic calculations for Envelopment plans,
MIX Keep to essentials, MAME & TITLE (Last, First, Middle nt.) Brian D. Morton, P.E. Brief Explanation of Responsi Mr. Morton has worked on wate waterline relocation projects Mr. Morton has prepared signiculverts and other drainage specifications, bid documents	YEARS OF AML DESIGN EXPERIENCE 2 bilities rline extension projects in Finvolving the West Virginia ng and pavement marking plans structures and highway constructures and highway constructures, and has performed constructures.	YEARS OF AML RELATED DESIGN EXPERIENCE: 2 Putnam and Kanawha County. H Division of Highways.	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12 e also has completed numerous ad hydraulic calculations for Envelopment plans,
Brief Explanation of Responsi Mr. Morton has worked on wate waterline relocation projects Mr. Morton has prepared signi culverts and other drainage s specifications, bid documents EDUCATION (Degree, Year, Spec	YEARS OF AML DESIGN EXPERIENCE 2 bilities rline extension projects in Finvolving the West Virginia ng and pavement marking plans structures and highway constructures and highway constructures, and has performed constructures.	YEARS OF AML RELATED DESIGN EXPERIENCE: 2 Putnam and Kanawha County. H Division of Highways.	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12 e also has completed numerous ad hydraulic calculations for Envelopment plans,
Brief Explanation of Responsi Mr. Morton has worked on wate waterline relocation projects Mr. Morton has prepared signi culverts and other drainage s specifications, bid documents EDUCATION (Degree, Year, Spec	YEARS OF AML DESIGN EXPERIENCE 2 bilities rline extension projects in Finvolving the West Virginia ng and pavement marking plans structures and highway constructures and highway constructures, and has performed constructures.	Putnam and Kanawha County. He Division of Highways. So and performed hydrologic and action. Also prepared site of the county and the county and the county and the county are the county and the county and the county are the county	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12 The also has completed numerous and hydraulic calculations for development plans, as projects.
MATE & TITLE (Last, First, Middle nt.) Brian D. Morton, P.E. Brief Explanation of Responsi Mr. Morton has worked on wate waterline relocation projects Mr. Morton has prepared signiculverts and other drainage specifications, bid documents EDUCATION (Degree, Year, Specific Engineering/1998)	YEARS OF AML DESIGN EXPERIENCE 2 Dilities rline extension projects in Finvolving the West Virginia ng and pavement marking plans structures and highway constructures and highway constructures, and has performed constructures.	YEARS OF AML RELATED DESIGN EXPERIENCE: 2 Putnam and Kanawha County. H Division of Highways.	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12 The also has completed numerous and hydraulic calculations for development plans, as projects.
AME & TITLE (Last, First, Middle nt.) Brian D. Morton, P.E. Brief Explanation of Responsi Mr. Morton has worked on wate waterline relocation projects Mr. Morton has prepared signiculverts and other drainage specifications, bid documents EDUCATION (Degree, Year, Specifications)	YEARS OF AML DESIGN EXPERIENCE 2 Dilities rline extension projects in Finvolving the West Virginia ng and pavement marking plans structures and highway constructures and highway constructures, and has performed constructures.	Putnam and Kanawha County. Horision of Highways. s and performed hydrologic and action. Also prepared site of the county and the county and the county and the county are considered to the considered	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12 The also has completed numerous and hydraulic calculations for development plans, as projects.
Brief Explanation of Responsi Mr. Morton has worked on wate waterline relocation projects Mr. Morton has prepared signi culverts and other drainage s specifications, bid documents EDUCATION (Degree, Year, Spec	YEARS OF AML DESIGN EXPERIENCE 2 Dilities rline extension projects in Finvolving the West Virginia ng and pavement marking plans structures and highway constructures and highway constructures, and has performed constructures.	Putnam and Kanawha County. He Division of Highways. So and performed hydrologic and action. Also prepared site of the county and the county and the county and the county are the county and the county and the county are the county	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12 The also has completed numerous and hydraulic calculations for development plans, as projects.

data but keep to essentials NAME & TITLE (Last, First, Middle	YEARS OF EXPERIENCE				
int.)					
Carney, Joseph T. P.E.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:		
rief Explanation of Responsibi	lities				
Mr. Carney has extensive experi and contract administration. H storm sewer, drainage studies, DUCATION (Degree, Year, Specia	e has worked on a variety of roadway, bridge design, hydro	Civil Engineering projects :	including grading, earthwork,		
EMBERSHIP IN PROFESSIONAL ORGA	NIZATIONS	REGISTRATION (Type, Year, S	State)		
		Professional Engineer, 1976	5, WV		
3. PERSONAL HISTORY STATEMENT out keep to essentials)	OF PRINCIPALS AND ASSOCIATES	RESPONSIBLE FOR AML PROJECT	DESIGN (Furnish complete data		
<pre>JAME & TITLE (Last, First, Middle nt.)</pre>		YEARS OF EXPERIENCE			
Workman, Gary A., CADD Senior Technician	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGNEXPERIENCE: 23	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:		
Brief Explanation of Responsibi Mr. Workman is responsible for WDEP/AML projects while employ	CADD design on AML projects,				
EDUCATION (Degree, Year, Specia Cechnical School/1987/CADD	lization)				

			\sim		
13. PER AL HISTORY STATEMENT data but keep to essentials	OF PRINCIPALS AND ASSOCIATE)	ESPONSIBLE FOR AML PROJECT D	ESIGN (Furnish compl		
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE				
Mayes, Jason M.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:		
Brief Explanation of Responsibi	lities				
Provides CADD Design for site d Nearly ten years experience in	evelopment, waterline and sew WV DOT design with a prior fi	er extensions, and layout on I	AML Projects. Mr. Mayes has		
EDUCATION (Degree, Year, Specia	lization)				
B.S. Industrial Technology 1997 A.S. Drafting and Design 1996 W					
MEMBERSHIP IN PROFESSIONAL ORGA	NIZATIONS	REGISTRATION (Type, Year, Sta	ate)		
13. PERSONAL HISTORY STATEMENT but keep to essentials)	OF PRINCIPALS AND ASSOCIATES	RESPONSIBLE FOR AML PROJECT D	ESIGN (Furnish complete data		
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE			
Scott A. Pratt	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:		
	13	13			
Brief Explanation of Responsibi	lities				
Mr. Pratt has extensive experie samples, and obtaining water le experienced in mine map research	vels. He has also performed m	any geotechnical soil tests in	n the laboratory. He is also		
EDUCATION (Degree, Year, Specia					
B.S. Geology, 1999, Marshall Un	iversity				
MEMBERSHIP IN PROFESSIONAL ORGA	NIZATIONS	REGISTRATION (Type, Year, St	ate)		

13. PER AL HISTORY STATEMENT data but keep to essentials	OF PRINCIPALS AND ASSOCIATE	ESPONSIBLE FOR AML PROJECT DE	ESIGN (Furnish compl
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Coberly, P.E. , Eric J.	YEARS OF AML DESIGN EXPERIENCE: 29	YEARS OF AML RELATED DESIGN EXPERIENCE: 29	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 10
Brief Explanation of Responsibi Mr. Coberly has performed AML G backfill, refuse regarding, por participated in the design of o 20 emergency project designs co including construction and desi hundreds of additional projects	rant and Emergency project destals, mine drainage, subsident ver 80 such project while work mpleted in Ohio. Mr. Coberly gn administrator as well as the	ce, refuse and mine fire abate king for WVDEP or at ELR. Inc has served in various capacit he Chief of the Office. This	ement. Mr. Coberly has cluded in that total is over ties with the WV AML Program
EDUCATION (Degree, Year, Specia B.S. Engineering of Mines, 1983 M.S. Engineering of Mines, 1990			
MEMBERSHIP IN PROFESSIONAL ORGA	NIZATIONS	REGISTRATION (Type, Year, Sta WV P.E 10619 Ohio P.E. 71562	ate)
13. PERSONAL HISTORY STATEMENT but keep to essentials)	OF PRINCIPALS AND ASSOCIATES		ESIGN (Furnish complete data
but keep to essentials) NAME & TITLE (Last, First, Middle	OF PRINCIPALS AND ASSOCIATES	YEARS OF EXPERIENCE	ESIGN (Furnish complete data
but keep to essentials)	OF PRINCIPALS AND ASSOCIATES YEARS OF AML DESIGN EXPERIENCE:		YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
but keep to essentials) NAME & TITLE (Last, First, Middle Int.)	YEARS OF AML DESIGN	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN	YEARS OF DOMESTIC WATERLINE
but keep to essentials) NAME & TITLE (Last, First, Middle Int.)	YEARS OF AML DESIGN EXPERIENCE: 0 lities .ce Manager. He brings experietion systems, and all aspects berience. His work has also enters integration with existing	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 7 nce with commercial development of subdivision planning and devalued communication and coordinated communication and coordinated communication and development.	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0 nts, drainage analysis, ADA esign. This includes dination with local
but keep to essentials) NAME & TITLE (Last, First, Middle Int.) Ryan Haws, EIT Brief Explanation of Responsibing Mr. Haws is our Bridgeport Officompliance, storm water collected engineering design and CADD expension of the compliance of the complex municipalities to ensure seamless.	YEARS OF AML DESIGN EXPERIENCE: 0 lities .ce Manager. He brings experie .cion systems, and all aspects berience. His work has also en ess integration with existing .nance, and business developme	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 7 nce with commercial development of subdivision planning and devalued communication and coordinated communication and coordinated communication and development.	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0 nts, drainage analysis, ADA esign. This includes dination with local
but keep to essentials) NAME & TITLE (Last, First, Middle Int.) Ryan Haws, EIT Brief Explanation of Responsibing Mr. Haws is our Bridgeport Officompliance, storm water collect engineering design and CADD expending and CADD expending titles to ensure seamles his experience in marketing, first EDUCATION (Degree, Year, Special B.S. Civil Engineering, 2005	YEARS OF AML DESIGN EXPERIENCE: 0 lities .ce Manager. He brings experie .cion systems, and all aspects .cerience. His work has also en .ess integration with existing .nance, and business developme .alization)	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 7 nce with commercial development of subdivision planning and devalued communication and coordinated communication and coordinated communication and development.	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0 nts, drainage analysis, ADA esign. This includes dination with local t. Mr. Haws also draws from

14. PRO E A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE A DES SERVICES
Various computer hardware and software including: Microstation, InRoads, AutoCAD, ELRSoil, Microsoft Office applications, Haested, Water CADD, Culvert Master, Flow Master
Various surveying equipment:
Instruments - Topcon Total Station (6), Trimble Robotic DR200+ (2)
GPS Equipment - Trimble 5700 Receiver (6), Trimble TSCe Controller/Handheld (5) *all equipment lists have various misc. survey equipment to go along (poles, tape measures, data collectors, etc.)
Riegl LMS - 360 3D Laser Scanner - surface imaging system based upon accurate distance measurement by means of electro-optical range measurement and a two axis scanning mechanism.

ROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE	
		Surveying, Mapping and Design	\$885,575	98	
llam Ridge Refuse yoming County	WVDEP/AML&R	Surveying, Mapping and Design	\$595,000	90	
est Columbia B ason County	WVDEP/AML&R	Surveying, Mapping and Design	\$1,365,9950	90	
artright Branch ogan County	WVDEP/AML&R	WVDEP/AML&R Surveying, Mapping and Design		100	
Marsh Fork Water xtension	Logan County PSD 41 Armory Rd. Logan, WV 25601	Design and Construction Management	\$2.9 M	10	
ig Ugly Creek aterline Extension	Logan County PSD 41 Armory Rd. Logan, WV 25601	Design and Construction Management	\$11 M	20	
hase III-A Sanitary ewer Extension			\$ 9 M	10	

PROJECT NAME, TYPE AND LOCATION	OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE	
Danese Waterline Extension	Danese Public Service District	Design and Construction Management	\$6.0 M	85	
Lower Mud River Naterline Extension	Lincoln County PSD 240 Lower Coal River Rd. Alum Creek, WV 25003	Design and Construction Management	\$ 7.9 M	65	
McDowell PSD Jolo Phase II Water McDowell County	McDowell Public Service District	Design and Construction Management	\$4.0 M	85	
Dille/Widen Water Extension Clay County	Birch River PSD	Design and Construction Management	\$4.0 M	85	
Outch Ridge/Sanderson Water Extension, Kanawha County	Kanawha County RDA	Design and Construction Management	\$2.5 M	85	
avalette PSD Nestlowe Jater Phase 2	Lavalette PSD 5308 Route 152 Lavalette, WV 25535	Design and Construction Management	\$4.7 M	98%	
aeger Regional Sewer Project	McDowell County PSD HC 31 Box 436J Welch, WV	Design and Construction Management	\$5 M	40	

		RM IS SERVING AS A S		ERS		
PROJECT NAME, TYPE NATURE OF FIRMS AND LOCATION RESPONSIBILITY	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST		
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY	

PROJECT NAME, TYPE	AST 5 YEARS ON WHICH YOUR FIRM NAME AND ADDRESS	S THE DESIGNATED ENGINEER OF RECORD ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED
AND LOCATION	OF OWNER			(YES OR NO)
Thorpe Refuse Pile McDowell County	WVDEP-AML Oak Hill, WV Mark Proctor	\$744,240	2011	Yes
Shinnston-Lumberport Subsidence Harrison County, WV	WVDEP-AML Philippi, WV Timothy LeMasters	\$442,000	2011	Yes
Corridor H Davis-Bismark X347-H-64.85 00 Tucker County	WV Dept. of Transportation Engineering Division Charleston, WV 25301 Attn: Gregory Bailey	\$9.0 M	2008	No
WVDEP-Emergency East Bank (Willis) Mine Blowout	WVDEP-AML, 601 57 th Street Charleston, WV 25304	\$0.8 M	2009	Yes
Newtown (Kinder) Portals Mingo County	WVDEP-AML 601 57 th Street Charleston, WV 25304 Roger Earle	\$490,410	2010	Yes
Keaton Branch Complex Raleigh County	WVDEP-AML, Oak Hill, WV Mark Proctor	\$527,250	2010	Yes
Gilmer B Sites 3-8 Gilmer County	WVDEP-AML&R 601 57 th Street Charleston, WV 25304	\$675,000	2009	Yes
Upshur County Industrial Park Upshur County	Upshur County EDA	\$4.0 M	2009	Yes

OF WORK FOR WHI	CH YOUR FIRM WAS RESPONSIE NAME AND ADDRESS	CH YOUR FIRM AS BEEN A SUB-CONBLE) ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
PROJECT NAME, TYPE	OF OWNER	OF YOUR FIRM'S PORTION		(YES OR NO)	Michael Baker, Jr.,
AND LOCATION opalachian Corridor Blennerhassett sland Bridge 354-D-0.00	Sub to Michael Baker, Jr., Inc. Post Design Services	\$7,500,000	2008	Yes	Inc. Michael Baker, Jr.,
ppalachian Corridor H ection 6 316-H-100.40	Sub to Michael Baker Jr., Inc. Surveying, ROW questionnaires, Hydraulic Studies	\$950,000	2008	Yes	Inc. Modjeski & Masters
Appalachian Corridor H Section 3 Davis to Bismark	Sub to Modjeski & Masters Survey, Geotech & ROW Plans	\$9,000,000	2008	No	Hodjeski d iiii
Robinson Creek Bridge S303-85-27.81 Boone County	Sub to EDG Roadway, Surveying, Structures, Hydraulic Studies, ROW Plans	\$1,000,000	2008	Yes	EDG
Holley Grove Bridge Kanawha County	Sub to Triton Construction Plans for Bridge, Hydraulics, Post Design	\$500,000	2010	Yes	Construction
qualifications E. L. Robinson mapping and cor heavily on the	Engineering Co. is commit- estruction monitoring serv- work offered by the WVDEP	information or description of est Virginia Abandoned Mine Lanted to the WVDEP/AML program to ices in a timely and cost-effice/AML program.	resources ds Progra provide	supporting your m. professional der. Our busing	our firm's design, surveying an ness plan relies
20. The foregoing :	is a statement of facts.	Title: PROJECT MANAGER		Date: March 7, 201	13



Glen Rogers Emergency Project:

Wyoming County, WV

Year:

2012

Client:

WVDEP-AML Charleston, WV

Description:

Performed survey, drilling, and design for shaft seals.

Project:

Abney Refuse Pile Raleigh County, WV

Year: Client: 2011-2013 WVDEP-AML

Description:

Oak Hill, WV Field surveying and mapping, subsurface investigation, design

work for refuse regarding, mine seals, and drainage.

Project:

Cartright Branch Refuse Pile

Logan County, WV

Year: Client: 2011-2013 WVDEP-AML

Charleston, WV

Description:

Performed survey, drilling, design for refuse regrading and mine

drainage control.

Project:

Thorpe Refuse Pile

McDowell County, WV

Year: Client: 2011-2012 WVDEP-AML

Description:

Oak Hill, WV Performed survey, drilling, design for refuse and spoil regrading

and mine drainage control.

Project:

Shinnston-Lumberport Subsidence

Harrison County, WV

Year: Client: 2010-2012

WVDEP-AML Philippi, WV

Description:

Performed site survey, drilling and prepared subsidence

abatement design.



Newtown (Kinder) Portals Design Project:

Mingo County, WV

2010-2012 Year: WVDEP-AML Client: Charleston, WV

Performed site survey, and prepared design for portals Description:

reclamation and drainage abatement design.

Gordon "C" Refuse Pile Project:

Boone County, WV

2010-2012 Year: WVDEP-AML Client: Oak Hill, WV

Field surveying and mapping, subsurface investigation, design Description:

work for mine seals, drainage, and refuse reclamation.

Keaton Branch Complex Project:

Raleigh County, WV

2010-2011 Year: WVDEP-AML Client: Oak Hill, WV

Performed survey, drilling, design for refuse regrading and mine Description:

drainage control.

Dunloup Creek Complex Project:

Raleigh County, WV

2009-2011 Year: WVDEP-AML Client: Oak Hill, WV

Performed survey, drilling, design for refuse and spoil regrading Description:

and mine drainage control.

Brownton (McCord) Landslide Project:

Barbour County, WV

2009-2011 Year: WVDEP-AML Client: Philippi, WV

Performed site survey, drilling and prepared landslide abatement Description:

design.



Abandoned Mine Land Reclamation Experience

Project: Keystone (Avery) Landslide and Portal

McDowell County, WV

Year: 2009-2011 Client: WVDEP-AML

Charleston, WV

Description: Performed site survey and prepared landslide abatement design,

portals reclamation, and drainage control.

Project: Dan's Branch (Pennington) Landslide Emergency

Mingo County, WV

Year: 2011

Client: WVDEP-AML

Charleston, WV

Description: Field surveying and mapping, subsurface investigation, design

work for landslide reclamation.

Project: East Bank (Willis) Mine Blowout

Kanawha County, WV

Year: 2009

Client: WVDEP-AML

Charleston, WV

Description: Field surveying and mapping, design work for mine seal and

drainage control.

Project: Island Creek #18 Mine Complex

Logan County, WV

Year: 2009-2011 Client: WVDEP-AML

Oak Hill, WV

Description: Field surveying and mapping, subsurface investigation, design

work for mine seals, drainage, and refuse reclamation.

Project: Jacob's Fork Complex

Boone County, WV

Year: 2008-2009 Client: WVDEP-AML

Charleston, WV

Description: Field surveying and mapping, subsurface investigation, design

work for mine seals, drainage, and reclamation.



Project:

Rhodell Refuse & Portals

Wyoming County, WV

Year:

2008

Client:

WVDEP-AML

Description:

Charleston, WV Performed survey, drilling, design for refuse and spoil regarding

and mine drainage control.

Project:

Gilmer B Site 3.8 Gilmer County, WV

2008

Year: Client:

WVDEP-AML

Charleston, WV

Description:

Performed survey, drilling, design for refuse and spoil regarding

and mine drainage control.

Project:

Gouge Landslide Emergency

Year:

Scott Town, OH September 2007 ODNR-AML

Client:

1855 Fountain Square

Columbus, OH

Description:

Performed site survey, drilling and prepared landslide abatement

design.

Project:

Brown Landslide Emergency

Year:

Rayland, OH August 2007

Client:

ODNR-AML

1855 Fountain Square

Columbus, OH

Description:

Performed site survey and prepared landslide abatement design.

Project:

Rodgers Subsidence Emergency

Wellston, OH

Year:

January 2007 ODNR-AML

Client:

1855 Fountain Square

Columbus, OH

Description:

Performed site survey and prepared subsidence abatement

design.



Abandoned Mine Land Reclamation Experience

Project: McAdams Subsidence Emergency

Stark County, OH

Year: April 2006 Client: ODNR-AML

1855 Fountain Square

Columbus, OH

Description: Performed investigation and prepared report of findings.

Project: Athens Rt. 13 Refuse Fire Emergency

Athens County, OH

Year: March 2006 Client: ODNR-AML

1855 Fountain Square

Columbus, OH

Description: Performed site survey, prepared abatement design and monitored

on site construction for fire extinguishment.

Project: Toney Fork Landslide Emergency

Boone County, WV

Year: February 2006 Client: WVDEP-AML

Charleston, WV

Description: Performed site survey, drilling and prepared plans and

specifications to stabilize an emergency landslide area.

Project: Cox Refuse Fire Emergency

Gallia County, OH

Year: December 2005 Client: ODNR-AML

1855 Fountain Square

Columbus, OH

Description: Performed abatement design for fire extinguishment.

Project: Lavender Refuse Fire Emergency

Meigs County, OH

Year: November 2005 Client: ODNR-AML

1855 Fountain Square

Columbus, OH

Description: Performed abatement plan and monitored construction.



Goetz Subsidence Emergency Project:

Columbiana County, OH

November 2005 Year: ODNR-AML Client:

1855 Fountain Square

Columbus, OH

Performed investigation and prepared report of findings. Description:

Adkins Landslide Emergency Project:

Gallia County, OH December 2005 Year: ODNR-AML Client:

1855 Fountain Square

Columbus, OH

Performed surveying, drilling, landslide abatement and Description:

construction monitoring.

North Matewan (Sipple Drainage) Project:

Mingo County, WV

February 2005 Year: WVDEP-AML

Performed surveying, drilling and design for drainage project Client: Description:

abatement.

Phalen Landslide Emergency Project:

Martins Ferry, OH January 2005 Year:

ODNR-AML Client: 1855 Fountain Square

Columbus, OH

Performed site surveying and landslide abatement design. Description:

Baisden Subsidence Emergency Project:

Jackson, OH January 2005 Year: ODNR-AML Client:

1855 Fountain Square

Columbus, OH

Performed drilling to develop subsidence abatement solutions. Description:

avec Proven Performance



Abandoned Mine Land Reclamation Experience

Project: Parsons Landslide Emergency

New Philadelphia, OH

Year: December 2004
Client: ODNR-AML

1855 Fountain Square

Columbus, OH

Description: Performed site review and report concerning landslides relation

to mining and potential solutions.

Project: Treadway Landslide Emergency

Rayland, OH

Year: October 2004
Client: ODNR-AML

1855 Fountain Square

Columbus, OH

Description: Performed site surveying, drilling and landslide abatement

design.

Project: Big Creek "C" Refuse

Logan County, WV

Year: July 2004 Client: WVDEP-AML

Description: Performed surveying and drilling for design.

Project: Imboden Landslide Emergency

Rutland, OH

Year: June 2004 Client: ODNR-AML

1855 Fountain Square

Columbus, OH

Description: Performed drilling and surveying to develop landslide abatement

solutions and cost estimates.

Project: Titus Road Landslide Emergency

Rutland, OH

Year: June 2004 Client: ODNR-AML

1855 Fountain Square

Columbus, OH

Description: Performed surveying, drilling and prepared plans and

specifications to stabilize and emergency landslide area.



Abandoned Mine Land Reclamation Experience

Project: Jefferson County Road 26 Landslide Emergency

Winterville, OH

Year: May 2004 Client: ODNR-AML

1855 Fountain Square

Columbus, OH

Description: Performed surveying, drilling and prepared plans and

specifications to stabilize and emergency landslide area.

Project: Charleston Romeo Landslide

Kanawha County, WV

Year: May 2004 Client: WVDEP-AML

Description: Performed surveying, drilling and design of landslide abatement.

Project: Roush Landslide Emergency

Pomeroy, OH

Year: March 2004 Client: ODNR-AML

1855 Fountain Square

Columbus, OH

Description: Prepared plans and specifications to stabilize an emergency

landslide area.

Project: Lewis Landslide Emergency

Pomeroy, OH

Year: March 2004 Client: ODNR-AML

1855 Fountain Square

Columbus, OH

Description: Performed surveying, drilling, prepared plans and specifications

to stabilize an emergency landslide area, and provided

construction monitoring.

Project: Moran Subsidence

Clinton, OH

Year: January 2004 Client: ODNR-AML

1855 Fountain Square

Columbus, OH

Description: Prepared plans and specifications to stabilize an emergency

subsidence area.



Ron Bobar Subsidence Project:

Flushing, OH January 2004 Year:

ODNR-AML Client:

1855 Fountain Square Columbus, OH

Investigation and report of an emergency subsidence area. Description:

Gooney Otter Refuse Project:

Wyoming County, WV January 2004

Year: WVDEP-AML Client:

Performed surveying, drilling and site design for refuse Description:

regarding project.

Chapmanville (Gorby) Mine Blowout Project:

Logan County, WV December 2003 Year: WVDEP-AML Client:

Performed surveying, drilling and design of landslide regrading Description:

and retaining wall design.

Tuppers Creek (Layne) Landslide Project:

Kanawha County, WV

July 2003 Year: WVDEP-AML Client:

Performed surveying, drilling and design of landslide abatement. Description:

Maidsville (Tennant) Landslide Project:

Monongalia County, WV

February 2003 Year: WVDEP-AML Client:

Performed surveying, drilling and design of landslide abatement. Description:



Whittington Hill (Walker Landslide) Project:

Kanawha County, WV

June 2002 Year: WVDEP-AML Client:

Performed surveying, drilling and design for an emergency Description:

landslide.

Minden Refuse Pile Reclamation Project Project: Fayette County, WV

September 2001 Year: WVDEP-AML

Performed surveying and design for emergency project to Client: Description:

upgrade drainage control.

Jeffrey Mine Complex Reclamation Project Project:

Boone County, WV

July 2001 Year: WVDEP-AML Client:

Performed surveying and design regrading refuse. Description:

Hot Coal Reclamation Project Project:

Raleign County, WV

October 2000 Year: WVDEP-AML Client: Charleston, WV

Performed surveying and design for regrading refuse. Description:

Bull Run #27 Project:

Preston County, WV

October 2000 Year: WVDEP-AML Client:

Performed surveying and design for regrading refuse. Description:

Rich Fork (Thaxton) Landslide Project:

Kanawha County, WV

July 2003 Year: WVDEP-AML Client:

Performed surveying, drilling and design of landslide abatement. Description:



Abandoned Mine Land Reclamation Experience

Project: Maidsville (Tennant) Landslide

Monongalia County, WV

Year: February 2003
Client: WVDEP-AML

Description: Performed surveying, drilling and design of landslide abatement.

Project: Whittington Hill (Walker Landslide)

Kanawha County, WV

Year: June 2002 Client: WVDEP-AML

Description: Performed surveying, drilling and design for an emergency

landslide.

Project: Minden Refuse Pile Reclamation Project

Fayette County, WV

Year: September 2001 Client: WVDEP-AML

Description: Performed surveying and design for emergency project to

upgrade drainage control.

Project: Jeffrey Mine Complex Reclamation Project

Boone County, WV

Year: July 2001 Client: WVDEP-AML

Description: Performed surveying and design regrading refuse.

Project: Hot Coal Reclamation Project

Raleign County, WV

Year: October 2000
Client: WVDEP-AML
Charleston, WV

Description: Performed surveying and design for regrading refuse.

Project: Bull Run #27

Preston County, WV

Year: October 2000 Client: WVDEP-AML

Description: Performed surveying and design for regrading refuse.



Riffe Branch Impoundment Project:

Fayette County, WV

June 2000 Year: WVDEP-AML Client:

Performed surveying and design for regrading refuse and Description:

drainage control.

Ven's Run Landslide Project:

Harrison County, WV September 1999

Year: WVDEP-AML Client:

Performed surveying and design for regraded landslide area. Description:

Fickey Run Project:

Preston County, WV September 1999 Year: WVDEP-AML

Performed surveying and design for refuse and spoil regrading Client: Description:

and drainage control.

Bull Run #35 Project: July 1999 Year: WVDEP-AML

Performed surveying and design for refuse and spoil regrading. Client: Description:

Securro Mine Drainage Site 1 & 2 Project:

Fairmont, WV July 1998 Year: WVDEP-AML Client:

Performed surveying and design for mine drainage system. Description:

Brown's Creek #10 Reclamation Project Project:

1997 Year:

WVDEP-AML Client:

Performed surveying and design for refuse regrading and Description:

mine seal installation.



Soil Analysis Geotechnical Experience

US-52 Kermit By-Pass

Solicited Bids from core boring contractors and performed core borings for highway and bridges for a planned four-lane highway in Mingo County West Virginia.

Designed cuts performed slope stability analysis and settlement analysis for several major fill areas, designed foundations for a total of six bridges.

Meadowbrook Road

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a planned four-lane highway in Harrison County West Virginia.

Designed cuts performed slope stability analysis and settlement analysis for several major fill areas, designed foundations for a bridge spanning the West Fork River.

US 60 Coal River Bridge

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a replacement for a bridge, which spans the Coal River in Kanawha County West Virginia. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the existing fill slopes.

US 60 CSX-Overpass Bridge

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a replacement for a bridge that spans mainline tracks of the CSX Railroad in Kanawha County West Virginia. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the existing fill slopes.

Indian Creek Bridge Boone County West Virginia

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a replacement for a bridge that spans the Coal River in Boone County West Virginia. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill slopes.

Camp Creek Bridge - Lavalette

Layout and directed core boring operations using WVDOH forces for a replacement bridge on US 152 in Wayne County West Virginia. Prepared Geotechnical report with recommended foundation alternatives.



Soil Analysis Geotechnical Experience

Jackson Bridge

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a replacement for a bridge that spans Middle Island Creek in Tyler County West Virginia. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill slopes.

<u>Tallman Bridge</u>

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a replacement for a bridge that spans Middle Island Creek in Tyler County West Virginia. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill slopes.

Corridor H-Section 7 (Foreman to Moorefield)

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a planned four-lane highway in Hardy County West Virginia.

Designed cuts performed slope stability analysis and settlement analysis for several major fill areas, designed foundations for a bridge spanning the South Branch of Potomac River.

Corridor H-Section 12 Section 01(Davis to Bismarck)

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a planned four-lane highway in Tucker/Grant Counties West Virginia.

Corridor H-Section 12 Section 03 (Davis to Bismarck)

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a planned four-lane highway in Tucker/Grant County West Virginia.

Designed cuts performed slope stability analysis and settlement analysis for several major fill areas, designed foundations for a bridge spanning the West Fork River.

I-79 Lodgeville Bridge

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a replacement for a bridge and road-widening project. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill slopes.



Soil Analysis Geotechnical Experience

I-79 Simpson Creek Bridge

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a replacement for a bridge and road-widening project. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill.

I-79 Meadowbrook Road Over Pass

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a replacement for a bridge and road-widening project. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill.

Ripley Town Bridge

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a replacement for a bridge that spans Mill Creek in Jackson County West Virginia. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill slopes.

Ripley Route 21 Road Widening

Performed slope stability analysis of a landslide area and designed a method to stabilize the area so the existing roadway could be widened. Developed Plans and specifications, which were included in the bid, package for the road-widening project.

I-64 Cross Roads Overpass Bridge

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a replacement for a bridge and road-widening project. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill.

I-79 Left Hand Fork Bridge

Reviewed existing core boring data, and performed slope stability analysis on the existing bridge abutment that had moved. Reviewed data from slope inclinometers and design pile lagging and rock buttress to stabilize the embankment.



Project:

Blennerhassett Island Bridge Over Ohio River

Year:

1999-2003

Client:

Michael Baker Jr., Inc.

5088 Washington Street, West

Charleston, WV 25313

Contact:

Pi Amin, P.E.

Vice President Michael Baker Jr, Inc. (Southwest Region)

304-769-0821

Description:

Prepared an analysis of the hydraulic impact of the proposed bridge on the Ohio River flow, and prepared an appropriate hydraulic report. The analysis utilized HEC-RAS and as a part of the hydraulic report, a scour analysis was performed. E. L. Robinson Engineering Co. developed a computer model of the Ohio River using hydrographic survey mapping provided by our survey group.

Two – Dimensional Hydraulic was also developed to model complex flows for various bridge configurations and to provide more accurate predictions of hydraulic behavior anticipated in the area. The 2-D and 3-D models allow derivation of design details and design analyses and provide more accurate simulations of scour hole geometry.

Project:

US 52 Mainline Bridge

KY 40 Bridge/Kermit Bypass over Marrowbone Creek

Year:

2000

Client:

West Virginia Department of Transportation

Division of Highways

Building 5

1900 Kanawha Blvd. East Charleston, WV 25305

Contact:

James Sothen, P.E., Director, Engineering Division

304-558-0501

Description:

Prepared an analysis of the hydraulic impact of the Kermit Bypass Project over Marrowbone Creek and a partial relocation of the creek and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared

using the USACE 1-D HEC-RAS program.



Project: Bridge No. 2922.1 NB & SB

I-79 Over Left Hand Creek & US 119

Year: 2000

Client: West Virginia Department of Transportation

Division of Highways

Building 5

1900 Kanawha Blvd. East Charleston, WV 25305

Contact: James Sothen, P.E., Director, Engineering Division

304-558-0501

Description: Prepared an analysis of the hydraulic impact of the placement of a

retaining wall for slope protection of the Left Hand Fork Bridge over Left Hand Creek and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-RAS

program.

ELR also prepared Section 404 permitting documents outlining the effects a temporary cofferdam, which would be used during the construction phase, would have on the outlying areas upstream of the

projects.

Project: Bridge No. 2448.1 – Simpson Creek Bridge

I-79 Over Simpson Creek

Year: 2000

Client: West Virginia Department of Transportation

Division of Highways

Building 5

1900 Kanawha Blvd. East Charleston, WV 25305

Contact: James Sothen, P.E., Director, Engineering Division

304-558-0501

Description: Prepared an analysis of the hydraulic impact of the widening of the

Simpson Creek Bridge over Simpson Creek and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-

D HEC-RAS program.

ELR also prepared Section 404 permitting documents outlining the effects temporary cofferdams, which would be used during the construction phase, would have on the outlying areas upstream of

the projects.



Project: Bridge No. 10059 – Ripley Town Bridge

US 33 Over Mill Creek

Year: 1999

Client: West Virginia Department of Transportation

Division of Highways

Building 5

1900 Kanawha Blvd. East Charleston, WV 25305

Contact: James Sothen, P.E., Director, Engineering Division

304-558-0501

Description: Prepared an analysis of the hydraulic impact of the replacement Ripley

Town Bridge over Mill Creek and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-RAS program. ELR also prepared Section 404 permitting documents outlining the effects temporary causeways, which would be used during the construction phase, would have on the outlying areas upstream of the

projects.

Project: Bridge No. 4732 – Jackson Bridge

WV 18 Over Point Pleasant Creek

Year: 1999

Client: West Virginia Department of Transportation

Division of Highways

Office of the District Engineer, District 6

903 3rd Street

Moundsville, WV 26041

Contact: Daniel W. Sikora, P.E., District Engineer

304-843-4008

Description: Prepared an analysis of the hydraulic impact of the replacement Jackson

Bridge over Point Pleasant Creek and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-

D HEC-RAS program.



Bridge No. 4636 – Indian Creek Bridge Project:

CR 3/25 Over Big Coal River

1999 Year:

West Virginia Department of Transportation Client:

Division of Highways

Office of the District Engineer, District 1

1334 Smith Street Charleston, WV 25301

John W. Dawson, P.E., District Engineer Contact:

304-558-3001

Prepared an analysis of the hydraulic impact of the Indian Creek Description:

Replacement Bridge over the Big Coal River and prepared the appropriate hydraulic and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the

USACE 1-D HEC-2 program and the FHWA WSPRO program.

Bridge No. 4769 – Tallman Bridge Project:

CR 24 Over Middle Island Creek

1999 Year:

West Virginia Department of Transportation Client:

Division of Highways

Office of the District Engineer, District 6

904 3rd Street

Moundsville, WV 26041

Daniel W. Sikora, P.E., District Engineer Client:

304-843-4008

Prepared an analysis of the hydraulic impact of the replacement Tallman Bridge over Middle Island Creek and prepared the appropriate hydraulics Description:

and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-RAS

program.



Project: Bridge No. 10058 - Meadowbrook Road Bridge

CR 24 Over West Fork River

Year: 1999

Client: West Virginia Department of Transportation

Division of Highways

Building 5

1900 Kanawha Blvd. East Charleston, WV 25305

Contact: James Sothen, P.E., Director, Engineering Division

304-558-0501

Description: Prepared an analysis of the hydraulic impact of the new Meadowbrook

Road Bridge over the West Fork River and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process and the Harrison County Flood Insurance Study model of the West Fork River was also used. Computer modeling was prepared

using the USACE 1-D HEC-RAS program.

Prepared Section 404 permitting documents outlining the effects temporary sheet piling, which would be used during the construction

phase, would have on the outlying areas upstream of the projects.

Project: Bridge No. 4426 – Lower Gassaway Bridge

WV 4 Over Elk River

Year: 1999

Client: West Virginia Department of Transportation

Division of Highways

Building 5

1900 Kanawha Blvd. East Charleston, WV 25305

Contact: James Sothen, P.E., Director, Engineering Division

304-558-0501

Description: Prepared an analysis of the hydraulic impact of the Lower Gassaway

Replacement Bridge over the Elk River and prepared the appropriate hydraulic and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-

D HEC-2 program and the FHWA WSPRO program.



Bridge No. 4574 – Camp Creek Bridge Project:

WV 52 Over Camp Creek

1998 Year:

West Virginia Department of Transportation Client:

Division of Highways

Office of the District Engineer, District 2

P.O. Box 880

Huntington, WV 25712

J. Wilson Braley, P.E., District Engineer Contact:

304-528-5625

Prepared analyses of the hydraulic impact of the Camp Creek Bridge Description:

over Camp Creek and prepared the appropriate hydraulic and scour reports. E. L. Robinson Engineering's survey unit developed the cross

sections and mapping that were utilized in the analysis process.

Computer modeling was prepared using the USACE 1-D HEC-2

program and the FHWA WSPRO program.



Aerial Photography and Contour Mapping Experience

E.L. Robinson Engineering Co. has worked with various clients to develop contour mapping of sites and areas that otherwise could not be determined. With the use of aerial photography and state of the art technology, E.L. Robinson Engineering Co. has developed maps from photographs for numerous projects including but not limited to:

- City of Beckley
- City of Charleston
- Corridor D
- · Corridor H
- Cross Lanes Connector
- Eldora
- Frazier's Bottom
- Glenwood
- Hatfield Cemetery
- I-70 Washington Avenue (Wheeling, WV)
- I-64 Glade Creek
- Jackson Mill
- King Coal
- KY 40 Connector
- Logan Run
- New River Parkway
- Ohio River Crossing
- Pinegrove
- Parkersburg
- Powell Creek
- Prince
- PSI-Baker/Ft. Henry Bridges
- Racetrack
- White Sulphur Springs
- Veterans Park



Aerial Photography and Contour Mapping Experience

E.L. Robinson Engineering Co. has completed the preliminary mapping for the WVDEP for all of the AML projects located in **Northern West Virginia** since 2012. In addition, ELR has completed either preliminary or final mapping for the following:

2003-Present

All ELR AML Projects
WV and OH

2002

Community of Preston
Rhodell Refuse Portals
Vivian Refuse Maintenance
Glen Rogers Waterline
Sundial (Hatfield) Refuse Pile
Jacob Fork Complex
Thomas (NE) Subsidence

2001

Bartley Mine Dump
Beckley Soccer Complex
Holden Portals/Structures
Jeffrey Complex
Minden Refuse Drainage
Roach Branch Refuse
Sauls Run Strip
Stonecoal Creek Complex
Waterline Photography
Weaver Portals/Mine Drain

2000

Micajah Refuse Pile
McAlphin Eroding Dump
Flemington Portals/Drainage
Minden "C" Refuse Pile
National Mine Complex
Linger Clogged Stream
Hotcoal Mine Dump
Layton Mine Drainage
Quintain Development

1999

Bull Run #27
8th Street-Warwood Avenue
Mabie Highwall
Coal Branch
Matoaka Subsidence
Elkins Coal
Springton Refuse
Veins Run

1998

Bull Run #35 Fickey Run

1997

Browns Creek Marrowbone Matewan Pigeon Creek

LE La Levrorience Proven Performance



Edward L. Robinson, P.E., P.S. President

Education

M.S. Civil Engineering
University of West Virginia, (COGS),
1981

B.S. Civil Engineering West Virginia Institute of Technology, 1969

Registrations

Registered Professional Engineer in West Virginia, Kentucky, Ohio, Pennsylvania, North Carolina, South Carolina, Virginia, Georgia, Maryland and Colorado.

Registered Professional Surveyor in West Virginia.

Professional Memberships

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

Professional Experience

Mr. Robinson founded E. L. Robinson Engineering Co. in 1978 with four employees. Initially the firm provided land surveying and land development services.

Under his leadership, E. L. Robinson has entered the new millennium as a multidisciplined professional services firm that



utilizes the latest technology in the design of highways, bridges, structures, environmental, civil, and geotechnical projects as well as global position satellite surveying, right-ofway, construction inspection and architectural services.

The firm now employs more than 90 engineers, architects, surveyors and support personnel and has been converted to an employee owned company through an Employee Stock Ownership Plan (ESOP).

Representative Projects

Engineering Review of the following projects:

- US Route 52 Kermit Bypass: This project consisted of 2.5 miles of four-lane divided highway, 3,000 LF of four-lane access road design, two 4-ramp intersections, one set of twin structures, one single bridge, and 2,900 LF of stream relocation, all of which resulted in 10 million cubic yards of excavation and an estimated total construction cost of \$88 million.
- Corridor H Davis to Bismark: This project consisted of 1.75 miles of four-lane divided highway, one bridge, two at-





grade intersections, and a $6' \times 6'$ concrete box culvert. This project has an estimated total construction cost of \$9 million.

- Corridor H Foreman to Moorefield:
 This project consisted of 5 miles of four-lane divided highway, almost 3 miles of access road design, a truck escape ramp, one set of twin structures, one single bridge, a box culvert, and naturalized stream design. This project resulted in 10 million cubic yards of excavation and an estimated construction cost of \$75 million.
- CAMC 33rd Street Relocation: Engineering design and construction management for the relocation of 33rd street and site development for a five story clinical teaching facility in Charleston, WV.

Offices Held

- Current Member of West Virginia University Board of Governors
- Current Chairman of WVUIT Advisory Board
- President of West Virginia Council of Engineering Companies
- Chairman Transportation Committee
 WV Association of Consulting Engineers
- State Director of West Virginia Society of Professional Engineers
- President of West Virginia Society of Professional Engineers

- Assistant Treasurer of the American Society of Civil Engineers
- National Director of the ASCE representing WV, NC, SC and VA
- President of West Virginia Section of ASCE

Honors Awarded

- Honorary PhD, Doctor of Science West Virginia Institute of Technology 2002
- Engineering Entrepreneur of the Year Ernst & Young, 2001
- National Entrepreneur of the Year Finalist - Ernst & Young, 2001
- Engineer of the Year American Society of Civil Engineers, 1998
- Engineer of the Year West Virginia Society of Professional Engineers, 1997
- Alumnus of the Year West Virginia University Institute of Technology, 1992





Eric J. Coberly, P.E. Project Manager

Education

M.S. Engineering of Mines West Virginia University, 1990 B.S. Engineering of Mines West Virginia University, 1983

Registrations

Registered Professional Engineer in West Virginia and Ohio

Professional Achievements

Instructor for Technical Training Courses, Office of Surface Mining (OSM)

Assisted in development of Coal Seam Fire Extinguishment Course, Jakarta, Indonesia

Professional Experience

Mr. Coberly has been an experienced Engineer for the West Virginia Department of Environmental Protection, Abandoned Mine Lands Division (AML) and the West Virginia Department of Energy, AML Division. With over 22 years of experience in AML, Mr. Coberly has worked throughout the state of West Virginia as a Construction Administrator, Design Administrator and a District Engineer. Mr. Coberly has participated in the design of over 100 AML projects. In addition, he served as Chief of the Office for over four years.



Mr. Coberly has been Project Manager/Engineer on various grant and emergency AML projects including landslide abatements, refuse regrading of mine sites, drainage, drilling, mine seals, highwalls, backfills, flood/erosion repair, subsidence control, water feasibility studies, and water treatment. Duties included project planning and design, managing construction bid and award, construction oversight and inspection, and project closeout.

Mr. Coberly has managed projects with E. L. Robinson which have involved site development, infrastructure planning, water, sewer, geotechnical analysis, abandoned mine reclamation projects, active surface mining projects, insurance investigations, providing expert witness services and various post mining land use projects.

Representative Projects

Lavalette PSD Rt. 52 Waterline Extension – Project Manager responsible for design and construction oversight of \$5 Million waterline extension project.





Mingo Redevelopment Wood and Belo Industrial Parks - Project Manager responsible for design and construction oversight of \$4.5 Million site development project that involved over 2 million cubic yards of earthwork and infrastructure development of over 120 acres.

Williamson DHHR Facility - Project Manager responsible for design and construction oversight of \$2.5 Million Office Facility. Project included the geotechnical analysis, foundation design, site grading, water, sewer and storm water design for the facility.

Mason County 911 Facility - Project Manager responsible for design and construction oversight of \$1.5 Million Office Facility. Project included the geotechnical analysis, foundation design, site grading, water, sewer and storm water design for the facility.





Richard W. Watts

Project Manager/Geologist

Education

B.S.in Geology, Marshall University, 1977M.S.in Geography, Marshall University, 1994

Professional Registrations

Registered Professional Geologist, Kentucky, 1993, No.159Certified Professional Geologist, Virginia, 1992, No.856

Professional Memberships

Geological Society of America Association of Engineering Geologists

Teaching Experience

Instructor, 1998 - Marshall University Engineering Geology Program - Soil and Rock Mechanics

Professional Experience

Mr. Watts has more than 31 years of experience in providing consulting services as a senior geologist. He has also served as project manager on numerous projects.

Mr. Watts is primarily an engineering geologist whose range of project experience has encompassed numerous projects concerning geologic investigation, rock and soils engineering, landslides, land reclamation, forensic damage investigations, hydrogeology and the coal industry.



He has performed hundreds of slope stability analyses for landslides and other projects involving the design of stable slopes. In addition, he has performed several studies involving landslide prediction to aid clients in land use and safety planning. Projects involving rock slope stability have included the analysis of the stability of high rock cuts for surface mining operations and highways.

Geotechnical experience has included numerous projects involving soils, foundations, landfills and damage studies. These projects have encompassed such areas as pile driving, caisson installation, earth fill placement, subsurface exploration, site reconnaissance, grout and concrete placement and quality control.

AML and Coal Industry Projects:

Work on more than 100 Abandoned Mine Land Reclamation projects, including:

- Mine subsidence, refuse piles and draining mine portals.
- · Coal seam mineability studies.
- Coal refuse embankment and slurry pond design.
- Coal permitting, exploration and drill log correlations.
- Roof and floor studies and pillar strength evaluations.





Timothy B. Cart, P.E., P.S. Project Engineer

Education

B.S. Civil Engineering West Virginia University, 1981

Registrations

Registered Professional Engineer in West Virginia and Ohio

Registered Professional Surveyor in West Virginia

Professional Memberships

· American Society of Civil Engineers

Professional Experience

Mr. Cart has over 25 years of experience in providing consulting engineering services. Clients served have included Industrial, Public and Private Institutions and State and Federal Agencies.

Mr. Cart has served as Project Engineer on numerous geotechnical investigations over the years. These projects have included highways, bridges, industrial sites and private development.

He has designed numerous waterline extensions and sewer collection systems. These extensions have included providing service to many residential as well as industrial customers. The sewer collection systems have included design of systems to collect sewage from residential and industrial sites. Mr. Cart served as a project



engineer on several major waste water treatment plant upgrades for industrial clients in the Kanawha Valley. He has designed several plants to serve industrial as well.

Mr. Cart has performed over 100 Abandoned Mine Land Reclamations projects throughout Appalachia. These projects have been mainly in Ohio, West Virginia and Eastern Kentucky. These projects have involved draining flooded mine workings, support of ground experiencing or subject to Mine subsidence and the stabilization of landslides.

Mr. Cart has designed numerous retention and retaining ponds for sites. These designs have involved the determination of storm runoff and design of structures to safely retain and pass the required storm peak flows.

His experience includes permitting activities for projects which have included:

- Railroad Occupancy Permits for Utilities
- NPDES Permits for Industrial and Public Wastewater Facilities
- Highway Permits for Utility Occupancy and Access Road Tie Ins
- Health Department Permits for Water and Sewer Projects





- US Corps of Engineers Permits -Nationwide and Individual
- West Virginia Public Lands Permits

Mr. Cart has recently been involved in the design of a 100 acre Industrial Site and 8 acre Industrial/Commercial Site in Mingo County. These projects are currently under construction and are located near Appalachian US 119 Corridor G.





John R. Kelly, III

Engineer Intern

Education

B.S. Civil Engineering West Virginia University, 1998

Computer Skills

AutoCAD, Microstation, COM624-P, Inroads, Hec-Ras, and ELRSoil

Professional Memberships

American Society of Civil Engineers

Professional Experience

Mr. Kelly has worked on many AML projects in West Virginia and Ohio since joining ELR in 1998. His responsibilities have included design of AML grading and drainage plans, AML Emergency projects, hydraulic calculations, permitting, design of retaining structures, design of passive AMD methods systems, treatment extinguishing burning materials, estimation of quantities, and estimation of engineering costs. Mr. Kelly has experience in the design and construction of waterline extension projects, and large scale site development projects involving over 1 million yards of excavation.

Mr. Kelly has performed construction inspections of waste water treatment facilities and has experience with roadway design, design of foundations, and retaining walls.



Representative Projects

Mr. Kelly has designed cut slopes for large scale roadway projects such as:

- Kermit Bypass, Mingo County, WV
- Meadowbrook Road, Harrison County, WV
- US-35, Mason County, WV
- Corridor H, Section 7, Hardy County, WV

Representative Mine Reclamation Projects:

- Dunloup Creek Complex
- Jacobs Fork
- Bull Run # 27
- Keaton Branch Refuse Pile
- Newtown (Kinder) Portals
- Thorpe Refuse Pile
- Abney Refuse Piles
- Glen Rogers Emergency





James T. Rayburn, P.S. Chief Surveyor

Education

A.S. Mechanical Engineering, West Virginia Institute of Technology, 1970

Registrations

Registered Professional Surveyor in West Virginia

Professional Memberships

American Congress on Surveying and Mapping

The American Association for Geodetic Surveying (AAGS)

Member Organization of ACSM.

Cartography and Geographic Information Society (CaGIS)

Geographic and Land Information Society (GLIS)

National Society of Professional Surveyors (NSPS)

West Virginia Association of Land Surveyors, Inc.



Professional Experience

Mr. Rayburn currently serves as Manager of Surveying for E.L. Robinson Engineering (ELR) and has more than 30 years of Design and Construction Surveying Surveying experience. The responsibilities include management of surveying and control for various design projects, including highways, buildings, and bridges. In addition, Mr. Rayburn manages and performs work consisting of courthouse research for property ownership resolution for the above mentioned project types. This includes preparation of property resolution maps, deed descriptions for property acquisitions required for project plan preparation. Mr. Rayburn has experience in Geodetic Control Surveys, 3D Laser Photogrammetric Scanning, Control, Topographic Surveys, Cemetery Surveys, Boundary Surveys, Construction Stakeout, Subdivision Surveys, along with Hydrographic surveys of river and lake bottoms. A few of the more notable surveying projects performed by ELR under the supervision of Mr. Rayburn, has been the Blennerhassett Bridge Project, 11 continuous miles of Corridor H design surveys, GPS Control for the West Virginia Statewide Mapping and Addressing Board Project, 3D Laser Scan and mapping of the





CAMC Parking Garage partial collapse, and 3D Laser Scanning of 164/177 Retaining Wall for Monitoring.

Representative Projects

Design Surveys

- Corridor H (WVDOT) Hardy County, WV: Lead Surveyor for Design Surveys, Right of Way Staking, etc. for approximately 11 miles of Corridor H in Hardy County, WV. This was for Sections 6 & 7 of Corridor H, both Sections of which are now under construction. Estimated construction cost of \$150 million dollars.
- WV Route 10 (WVDOT) Logan to Man WV, Logan County, WV: Lead Surveyor for Design Surveys for a section approximately five miles in length from Man, WV, to Rita, WV, including the Man Bridge. Also provided control surveying for the entire project length of approximately 12 miles. The approximate five miles section of roadway is now under construction at an estimated cost of \$51 million dollars.
- Blennerhassett Bridge, Corridor D (WVDOT), Wood County, WV: Lead Surveyor for Design Surveys for this landmark Bridge Project which is now under construction at an estimated cost of \$120 million dollars.
- James Ramsey Bridge (WVDOT) Potomac River, Shepardstown, WV: Lead Surveyor for Design Surveys for this Bridge Project which is now completed at an estimated cost \$15.5 million dollars. This project involved working in an environmentally historic area, which adjoined a National Park.
- US Route 35 (WVDOT) Mason County, WV: Lead Surveyor for Design Surveys for two Design Sections each approximately 2.5

miles in length from Lower Five Mile Road to Upper Nine Mile Road. Also provided control surveying for the entire US 35 design project length of approximately 22 miles.

- 164/US 35 (WVDOT) 164 to US 34 Crooked Creek, Putnam County, WV: Lead Surveyor for Design Surveys, Right of Way Staking, etc. for approximately four miles of US 35 including Interstate 64 Ramps and Flyovers in Putnam County, WV. This included the 164 Bridges and Flyovers, which is now under construction.
- Ohio: Project Design Surveyor for rail grade separation project. Project involved roadway realignment, 900' new bridge, new waterline, storm and sanitary sewers. Project is currently under construction. Estimated construction cost: \$8.6 million.
- PIC-23-3.21 and Various (ODOT) Pickaway
 County, Ohio: Project Design Surveyor for ODOT
 Project PIC-23-3.21 and Various. Project involves
 deck replacements along 11 miles of US 23 in
 Pickaway County. Project includes large diameter
 culvert liner, interchange upgrade that includes
 mainline profile correction, ramp reconstruction,
 and addition of barrier wall and storm drainage.
 Project is currently under design (90%). Project
 scheduled for construction in 2007. Estimated
 construction cost: \$12 million.
- ATB-90-22.06 (ODOT) Ashtabula County, Ohio:
 Project Design Surveyor for Interstate Reconstruction Project. Project includes total pavement replacement, bridge widening, and contra crossover maintenance of traffic, culvert replacements and storm sewer rehabilitation and sign replacements. Project is currently under design (50%) and scheduled for construction in 2011.

 Estimated construction cost: \$36 million.





Construction Surveys

- Corridor D (WVDOT) Wood County, WV: Lead Surveyor for Highway/Bridge Construction Monitoring surveys for the following segments of Corridor D and related relocation projects:
 - Godbey Athletic Field Relocation Construction
 - Godbey Colt Field and Soccer Field Construction
 - West WV 47-East WV 47 Highway/Bridge Construction
 - East Buckeye-West Little Kanawha River Highway/Bridge Construction
- Interstate I-79 Widening and Median
 Barrier (WVDOT) Harrison County, WV:
 Lead Surveyor for construction layout surveys
 for the widening of I-79 from the
 Meadowbrook Exit, north to the Jerry Dove
 Exit approximately three miles in length, as a
 subcontractor to the prime contractor.
- CAMC 33rd Street Relocation and Building Expansion, Charleston, WV: Lead Surveyor for construction layout surveys for 33rd Street relocation along with ancillary items including sidewalks, drainage and utilities. Also layout surveys for building expansion project.
- Saturn Dealership, Hurricane, WV: Lead Surveyor for Saturn Dealership site development and access roads at Hurricane Interchange of Interstate 64.
- Arch Coal WV Mining Operations: Lead Surveyor as a subcontractor to Arch Coal operations for Valley Fill Construction (Up to 27 million cubic yard fills), mine haul road layout, drill line staking, and dragline pit layout.





Randall L. Lackey, P.E. Project Engineer

Education

B.S. Civil Engineering West Virginia University Institute of Technology, 1999

Registrations

Registered Professional Engineer in West Virginia, Ohio and Kentucky

Professional Memberships

- · American Society of Civil Engineers
- · Society of American Military Engineers

Computer Skills

C++, AutoCAD, MathCAD, Microstation, MS Excel, MS Word, MS Project, MSPowerPoint, Windows, MDX, MERLIN, BRASS Systems, SIMON, HEC-RAS, RC Pier, and HY8

Professional Experience

Prior to joining E.L. Robinson Engineering Co., Mr. Lackey worked with the WV Division of Highways as an Engineering Co-op Technician. As part of his co-op experiences, he performed calculations for steel, flowrate and roadway. He performed roadway and guardrail design and construction inspection for bridge and roadway projects.



Representative Projects

Mr. Lackey has been intricately involved in the hydraulic design process of the Blennerhassett Island Bridge Project, which will connect West Virginia to Ohio as well as span the Ohio River and Blennerhassett Island. Included in this project are the following: Preparation of flood plain analysis for existing, temporary, and various post construction conditions, scour analysis using FHWA approved publications, analyzing the affects that debris flow will have on the bridge as well as Blennerhassett Island, and studying the potential for lateral channel migration and understanding the affects the migration would have on the design on the bridge substructure.

Mr. Lackey has also been involved with the hydraulic design process of the Corridor H South Branch of the Potomac River Bridge. Included in this project are the following: Preparation of flood plain analysis for existing, temporary, and various post construction conditions, scour analysis using FHWA approved publications, analyzing the affects that debris flow will have on the bridge, studying the affects the proposed conditions





will have on the Town of Moorefield, WV flood level, and studying the potential for lateral channel migration and understanding the affects the migration would have on the design on the bridge substructure.

Mr. Lackey has also performed hydraulics and scour computations for Ripley Town Bridge, Jackson Bridge, Beaver Creek Bridge, Walnut Bottom Bridge, Tallman Bridge, Meadowbrook Road Bridge, Simpson Creek Bridge, Kermit Bypass Bridges and culverts, Left Hand Fork Bridge, and Corridor H Bridges over Walnut Bottom Run and an unnamed tributary.

Mr. Lackey has prepared Section 404 permitting analysis and paperwork for Ripley Town Bridge, Simpson Creek Bridge, Meadowbrook Road Bridge, and the Left Hand Fork Bridge. Along with this work, Mr. Lackey has prepared CLOMR analysis and documentation for Horseshoe Village Subdivision and for The Ohio State University Medical Center's two proposed bridges that connect the University with OH SR 314 over the Olentangy River.

Mr. Lackey has performed calculations for deck drainage, performed girder design and analysis, pier design and analysis, prepared design study reports, type, size and location reports and final plans on many of E.L. Robinson's Division of Highways projects.





Mark Allen McGettigan, PE, Project Manager

Education

M.S.E. Engineering Management/Environmental Engineering,

Marshall University December 2007

B.S. Civil Engineering Technology, Fairmont State College, 1999

Registrations

Registered Professional Engineer in West Virginia

Professional Memberships

American Society of Civil Engineers

Professional Experience

Successfully worked on and managed numerous Phase I and II ground water quality investigations and feasibility studies for the West Virginia Department of Environmental Protection.

Mr. McGettigan has taken several large water and wastewater projects from the initial development phase through the construction phase. This includes writing preliminary engineering report, developing funding scenarios, designing the developing system, the plans and specifications, developing the bid documents/overseeing the bid process and managing the construction inspection.



Developed specifications and managed construction inspection for land development and utility construction projects.

Representative Projects

Mr. McGettigan has been the design engineer on the following projects:

- Lavalette Public Service District's U.S. Route 52 Waterline Extension Project.
- Lavalette Public Service District's Crockett and Millers Fork Waterline Extension Project.
- Lavalette Public Service District's State Route 37 Waterline Extension Project.
- Crum Public Service District's Mill Creek Waterline Extension Project.



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Coopers Rock, Pisgah, and Laurel Run Waterline	С	YES				x					×	X						М		Р		Р	Р		
Davis Water Tank	С	YES				Х					Х	X						М		Р		Р	Р		=
Whittington Hill (Walker)Slide	С	YES		×	х	x					×						×	М	P/M	Р					
Maidsville Landslide	С	YES	X								×						×	М	Р	Р		Р	Р		
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Charleston Romeo Landslide	С	YES		X	Х	X					Х						X	M	P	Р		Р	Р		
Big Creek C Refuse	С	YES		X													X	M	Ρ	Р		Р	Р		
North Matewan Sipple	C	YES		X	X	X					X						X	М	Р	Р		Р	Р		
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Titus Road Landslide	Č	YES	X	X		x					x		_			_	x	M	P	P	-	P	P	_	-
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Parsons Landslide	С	YES		X													X	М	Р	Р		Р	Р		\neg
Treadway Landslide	С	YES	X	X		X					X						Х	M	Р	Р		Р	Р		
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Brown Landslide Town Run	C	YES NO		X		X					X							М	Р	Р		Р	Р		-
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Big Sandy Refuse	Р			×		Х											X			Р	P			P	P
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Witcher Creek	P	2001		X	X	X					X		X				X				Р			A12	P
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Yoursco	P	2004		X	X							X									P			Р	Р
Carswell	P	2004				X	X				X		X		X	X	X				P		_	Р	Р
Craigmoor	Р	2004				X				/	X		X				X	_	_		Р				Р
Downey Pierpont	Р	2006							X								X	_	_	_	Р	_			P
Ames (Clare) Landslide	Р	2007		X							X						X	-	-	_	P	-	-	Р	P
Lorado	Р	1995		X	X	X					X	X			X		X	-	-	-	P	-	+-		P
Madeline Refuse	Р	1995		×	X	X	X			X	X			-	X	X	X	+	+	_	P	_	+		P
Rocklick	Р	1995		X	X	X				1	X			-	X	-	X	+-	+-	+-	P	+	+		P
Wahoo	Р	1996				X	X	X		-	X	-	-	-	X	-	x	+	+	+	P		+		P
Meadowbrook	Р	1996		X	X	X	X	_	-		X	X	-		<u>^</u>			_	_	1	Р	1	_		P
Jumping Branch	P	1996		×	X	X	X	×	-	X	×	-^	_	-	X						Р				P
Beard's Fork	P	1997		X	x	x	X	x	+	_^	X	+	-		- "		X	1			P				P
Turkey Wallow	P	1997		+ â	×	x	x	^	_		X				X		X	1			Р				P
Otsego	P	1997		 x	X	X	- /			_	X	X									P				P
Miller Whitby	P	1998		X	X	X			1		X	X	1	X	X	X	X				Р				P
Barker	P	1999		X	X	X					X	X									Р			P	P
Gauley River Road	P	1999										X	6451								Р			P	P
Skin Creek	Р	2000		X	X	Х	Х				X	X			X	X	X	-		1	Р			P	P
Jolo	Р	200										X				-		-	-	-	P		1	P	P
Tioga	P	200									-	X					-	-	-	-	P	-	+	P	P
Turkey Gap	Р	200		X	X	X	-			-	X	-		-	X	X	-	+	-	+-	P	+	+	les:	10
Big Sandy	Р	198				X	1	X		-	X	×	-	-	_^		+	+	+	P	P		1		+
Marfrance	P	1988		X	X	X	×		-	+	X	X	+	-		+	+	+	-	P	P		1		\top
New Hill Ballpark	Р	1988		X	X	1 x	_ ^	-	X	_	1 x	x		_	X		X	_	_	P	Р				
Jones Run	P	198		X	X	x	_	-	+-^-		1 x	- ~			- "		X				P				P
Chapmanville Landslide	P	198		+ x	x	X	+	_	+	+	X	+		-			X				P			-	P
Wharncliff Landslide	P	199		x	x	x	1				X	X		X							P				P
Joyce Sturm	P	199		_^		X	X		1	+	X						X				Р				P
Marianna Refuse Cedar Grove	P	199		X	X	X					X	X		X			X				P				P
Eskdale	P	199		X	X	X					X			X	X						Р	-	-	+-	P
Hodgesville	P	199		X	X	X					X	X		X			X				P			-	Р
Newsome Branch	Р	199		X	X	X	X				X		1		X		X	-	_	-	P		-	-	P
Morrison	Р	199	2	X	X	X					X	X					X	+	-	+	Р	_	+	-	+-
Snake Island	Р	199				X	X	X			X		-	-	X	X		+	-	-	P	-	-	+-	P
Orchard Branch	Р	199		X	X	X	X				X	X	-	X	-		X	+	+	+	P	+	+-	+-	P
Beckley Layne	Р	199		X	X	X		-		-	X	X			+		X	+	+	+	P	_	+-	+-	P
Quinwood Booth	P	199		X	X	X	-	-	X	-	X	X	-	-	-	X	X	+	+	+	P	+		_	+
Little Fork	Р	198	3 X	X	X	X	X	X			X						^_				1!~	1			4

AML and RELATED PRO	JECT EXPERI	ENCE MATE	RIX		8000		0/10		Julie State of the	Attach	ment "	C"		10000											
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PROJECT	Experience Basis Corporate-C Personal-P	Additional Information in Section	Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrological/Hydraulic Design/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/Replacement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Ed Robinson, P.E.	Eric Coberly	Tim Cart, P.E.	Richard W. Watts, P.G.	Mark McGettigan, P.E.	John Kelly. E.I.	Scott A. Pratt, Geologist	Gary A. Workman, CADD
Elkridge Refuse Lando Mines	P	1984	X	X	X	X	X	X			X				X		X				Ρ				
West Varney	P	1984 1984	Х	X	X	X					X						X				Р				
Bethel Portals	P	1984		X	X	X					X	×					X				P				
Mammoth Landslide	Р	1985		^	^	- x					X	^		×	×		X			Con	P P				_
Cheyenne	Р	1985	X			X					×	×		×	X		X				P		-	_	$\overline{}$
Mudlick A Landslide	Р	1985	X		X	X					X	X				×	X				P	_			\neg
Nelson Landslide	Р	1985	X	Х							X						X				P				\neg
Mudlick B Refuse	Р	1985	X	X	X	X	X				X				X	Х	X			Р	Р				
Bluff Mountain	P	1985	X	X	X	X	X				X	X			X	X	X				Р				
Montgomery Drainage	P	1986		X	X	X					X			X			X				Р				
Mayoros Drainage Ridgeview A & B	P	1986		X	X	X					X	X		X							Р				
Tupper Valley	P	1987 1987	X	X	X	X	X	X			X	X		X	X		X				Р				
Airport Bottom	P	1987		X	X	X					X	X		X			X	\vdash			Р				
Manilla Creek	Р	1987	X	x	x	x	×	-	_	_	X	X	_							P	_			_	
McAlpin	Р	2009	^	_^_	_^	_^	^				x	^	_	X	X		X	\vdash			P P	_	P	-	
Robey	Р	2009	X	X	X	X					x						X				P		P		
Katy Lick	Р	2009	X			X					X						x				P		P		
Clear Fork	С	2009									-	X						М			P		P		P
Coal Mountain	С	2009										X						M			P		P	>	P
Naugatuck/East Kermit	С	2009										X						M			P		P	>	Р
Prenter	Р	2008										X									Р		F	>	Р
Hanover	Р	2009										X								Р	Р		F	>	Р
Lower Dempsey	Р	2009		X	X	Х					X						X				Ρ		F	>	Ρ
Island Creek #18 Brownton Landslide	C	2009 2009		X	X	X					X	X			X		X				Р		PF	7	Р
East Bank Emergency	C	2009		×	X	Х					X	X					X				P		P		Р
Dunloup Creek	c	2010	×	×	Х	X					X				V .						Р		P		Р
Otsego/Pierpoint/Maben	Č	2010	^	^	^	^					_^	X			X	X	X				P P		P F		P
Barkers Ridge/Basin	C	2010										- x									P				
Herndon/Covel/Garwood	С	2010										x									P		F		
Bud/Alpoca/Mill Branch	С	2010										X									P		- 1		
Keystone (Avery)	С	2010																		Р	P		PF	>	P
Keystone (Emergency)	С	2010																			Р		P		Р
Cane Branch	С	2010										X								P	Р				
Spy Rock/Edmond/ Flanagan Mountain	С	2010										×								P	_			. 1	
Wilderness PSD	С	2010						_				- V								1.5	P		F		_
Gordon C	Č	2010		X	X	X					X	Х						\vdash		_	P		F		_
Keaton Branch	Č	2010		X	x	x					×						X	\vdash			P		P F		-
Verner Grimmett Burning																	^						E	-	\dashv
Refuse	С	2010						x			×									P			P		
Shinnston-Lumberport	С	2011							X		X										P		PF	5	\neg
Newtown-Kinder	С	2011		X	X	X					X						X				P		PF	-	\neg
Dan's Branch Emergency	С	2011		X	X	X					Х						Х			P			P		\neg
Cartright Branch	С	2011		X	X	X					Х						X			Р	P		PF		
Thorpe Refuse Pile	C	2011		X	X	X					Х						X			Р	Р		PF	•	
Glen Rogers Emergency Abney Refuse Piles	C	2012		X	X						X									Р			P		
nulley neluse Files	0	2012		X	X	X	. 1				X	1					X			P	P	7	P	•	1

AML and RELATED PRO	JECT EXPERI	ENCE MATE	RIX							Attach	ment "	C"					E.		0.01		716	- 3	DIE.		
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PROJECT	Experience Basis Corporate-C Personal-P	Additional Information in Section	Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrological/Hydraulic Design/Eval	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/Replacement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Ed Robinson, P.E.	Eric Coberly	Tim Cart, P.E.	Richard W. Watts, P.G.	Mark McGettigan, P.E.	John Kelly. E.I.	Scott A. Pratt, Geologist	Gary A. Workman, CADD
Milam Ridge Refuse West Columbia "B"	C	2012	_	X	X	X					X						X				Ρ			Р	
Coburn Invest.	P	2012	-	X	X	×			V	-	X						Х			Р	Р		Р	Р	
Gouge Landslide	P		X	^		X		-	X		X		X				X		Р						
Adamsville	P		x	X	×	x			X		X		X		-		Х		Р						_
Mount Pisgah	Р		X		-	x			^		1 x		X		—				P	-		_			
Pleasant Valley Church	Р			X	X	X					X		×			-			P				-	_	_
Hodgesville B	Ρ			Х	X	X					X		X		X		×		P			_		_	_
Lynch Chapel	Р			X	X	X					X		X		- ^	х			P				-	_	_
Snider Portals	Р			X	X	X					X		Х						P						
Wash Run	P			X	X	X					Х		X						P		_				
Junior Sewage Plant	P		Х	X	X	X					Х	X	X		X				Р						
Shavers Fork/Stonecoal	Р			Х	X	X					X	X	X						Р						
Vargo Drainage	P			X	X	X					X		X						Р						
Fairhills Plaza Subsidence Karen Vance AMD	P			X					X		×		X						Р						
Leroy Wilmoth Drainage	P		Х	X	X	X					X		X						Р						
Big Knob Acid Mine Drainage	P		×	X	X	X					X		X						Р						
Matthew Smith Subsidence	P		_^	â	^	x	_	_	X		X	X	X	X					Р						
Worthington Portals	Р		Х	×	X	x			^		x		X						Р						
Red Rock Drainage	Р		X	×	X	X	-		_		x		X			_	_		P				_		_
Blackwater Manor	Р		X	×	X	X	X				X	X	_^_	Х	X				P	-		-	-	_	_
Buckhannon River Refuse	Р			Х	X	X					X	- "	X	_^_	x				P		_	_		_	_
Hutcheson AMD	Р			X	X	X					X		X						P				-	$\overline{}$	
Nutter Fort Tressle -7th	Р										X		X						Р			_			
East Bank Portals - A# 2	Р			X	X	X					Х		X						Р						
Manilla Creek - A#2	Р			X	X	X					X		X				X		Р						
Big Creek C	P			X	X	X					X		X						Р						
Covey Creek Refuse Omar Drainage G2	P			X	X	X					X		X						Р						
Crooked Ck Refuse & Portals	P		-	X	X	X					X		X						Р						
Jims Br. (Tyree) LS	Р			×	X	X		-			X		X		Х				Р						
Galloway Mine Portal/Refuse	P			x	x	x					X		X			×	X		P	-					
Newtown (Harmon) Drainage	P			X	X	x					x		_^		_		^		P	-			-		
Whitman Ck. (Williams) VO	Р			X	X	-,					- x	\vdash						\vdash	P	-			-		_
Coal Branch (Cantrell)	Р			X	X	X					X						-	\vdash	P	-			\rightarrow		
Jordanville Tipple/Refuse	Р		Х			X				X	X				Х				P		- 6		\rightarrow		
Heizer Creek A Maintenance	Р			Х	Х	X					Х			X					P						_
Orlando Mining Facility	Р		X			X				X	X				Х				Р						
Verdunville Drainage	Р			X	X	X					X								Р						
Holden Portals	P			X	X	Х					X								Р						
Molinar Subsidence	P		-	X					X		X		X				Х		P/M						
Smith Landslide Lutz Vertical Opening	P		X	X	X	X					X		X				Х		P/M						
Swiger Mine Blowout	P			X	X	~			_		X		X		-				P/M						
Blair Wolfe Subsidence	P			X	X	X			X		X		X			X			P/M						
Lake (Winkler) Phase II	P			x		X			^		X	-	Х				$\overline{}$		P/M	_			_	_	
, , , , , , , , , , , , , , , , , , ,	***			74		^					_^_						X		P/M	_			-	_	_
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CERTIFICATION AND SIGNATURE PAGE

By signing below, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

E.L.ROBIJSON	JENGINEERING
(Company)	
E Cally	
(Authorized Signature)	
ERIC J. GBE	RUY, PROJECT MANA
(Representative Name, Tit	le)
304776.7473	304776-6426
(Phone Number)	(Fax Number)
3-28-13	
(Date)	