

RFQ COPY

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

Request for Guotation DEP14439

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ADDRESS CORRESPONDENCE TO ATTENTION OF CHUCK BOWMAN 304-558-2157

ENVIRONMENTAL PROTECTION 601 57TH STREET SE CHARLESTON, WV

TYPE NAME/ADDRESS HERE DEPARTMENT OF Stafford Consultants OFFICE OF AML&R P.O. Box 5849 1105 Mercer St. Princeton, WV 24740 25304 304-926-0499

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Engineering, Design, and Consulting Planning and Environmental Services

October 29, 2008

File: 08-9998.00

Mr. Chuck Bowman State of West Virginia Department of Administration Purchasing Division 2019 Washington Street, East Charleston, WV 25305-0130

Dear Mr. Bowman:

RE: RFQ No. DEP14439

Maybeury (Oakley) Landslide Opening 10-29-08 1:30 p.m.

Stafford Consultants, Inc. is very pleased to have the opportunity to make this proposal in response to RFQ No. DEP14439 of September 18, 2008 for professional services in connection with the Department of Environmental Protection – Maybeury (Oakley) Landslide.

We are well qualified for this work because of our past experience with Department of Environmental Protection (AML) from 1987 to the present, during which time we completed twenty one assignments. These projects were all successful, and our fees were consistently below estimates with no project reaching 90% of the approved design fee. Additionally, all projects were completed on time. Please refer to the listing in this proposal for actual performance on these projects.

I am enclosing an original, one (1) convenience copy, and a CD as required by the RFQ.

Our firm and members of the project team are in compliance with all regulations called for in the RFQ and we carry professional liability insurance (errors and omissions) insurance in the amount of \$1,000,000.

We appreciate having provided AML Engineering Services in the past and would like to continue our relationship with them.

We are a 19 member firm with five (5) registered professional engineers.



Mr. Chuck Bowman October 29, 2008 Page 2

We believe our project team approach and quality assurance/constructibility review results in projects being constructed on time and in budget.

I will appreciate your serious consideration of our firm, and look forward to a pleasant and productive relationship in the future. If any portion of this proposal is unclear or you need additional information, please contact me.

Sincerely,

C. Dean Upton, P.E.

President

National Society of Professional Engineers®

CDU/krc

Enclosures

TECHNICAL PROPOSAL

for

ENGINEERING SERVICES REQUIRED FOR THE ABATEMENT OF PROBLEMS ARISING FROM THE

MAYBEURY (OAKLEY) LANDSLIDE

OCTOBER 29, 2008

RFQ NUMBER: DEP14439

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Office of Abandoned Mine Lands and Reclamation 601 57TH STREET SE
Charleston, West Virginia 25304

Phone: 304-926-0499

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

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

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

West Virginia Code §21-1D-5 provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 31 of the West Virginia code and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, chapter 321 of the West Virginia Code may take place before their work on the public improvement is begun.

ANTITRUST:

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

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

LICENSING:

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

CONFIDENTIALITY:

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

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

Vendor's Name:	Stafford Consulta	nts Incorporated		
Authorized Signature: _	C. L. Dean &	htm	Date:	October 29, 2008
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Purchasing Affidavit (Revised 07/01/08)

W] AML C	EST VIRGIN	IIA DEPARTIMEI I CONFIDENTIA	WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AML CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE	NTAL PROTECTIC QUESTIONNAIRE	Ň	
PROJECT NAME MAYBEURY (OAKLEY) LANDSLIDE RFO NO. DEP14439	LIDE	DATE (DAY, MONTH, YEAR) 29 October 2008	TH, YEAR) r 2008	FEIN 55-0656181	6181	1911220031317M-77MKK-9MX
1. FIRM NAME		2. HOME OFFICE 1	HOME OFFICE BUSINESS ADDRESS	3. FORMER FIRM NAME	RM NAME	41.00
STAFFORD CONSULTANTS, INC.	INC.	P.O. Box 5849 Princeton, WV 24740	7 24740			altituda en
4. HOME OFFICE TELEPHONE	5. ESTABLISHED (HED (YEAR)	6. TYPE OWNERSHIP	Cornoration X	6a. WV REGISTERED DBE	
(304) 425-9555	1985		Partnership	e)	Enterprise) YES NO X	
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE	3: ADDRESS/T	ELEPHONE/ PERSON	N IN CHARGE/NO. AML I	DESIGN PERSONNEL E	ACH OFFICE	
	24740 / 304-4	25-9555 / C. Dean	Upton, P.E. / 8	C diameter of the control of the con	A CATACA A CATACA CATAC	
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM C. Dean Upton, P.E., President Edward L. Shutt, P.E., Vice President	RS OR MEMBEF at	RS OF FIRM	8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS	JEPHONE NUMBER - C	THER PRINCIPALS	
9. PERSONNEL BY DISCIPLINE (Bold Lettering Indicates	old Lettering In		Minimum Design Team Members)	And the state of t		
2 ADMINISTRATIVE ARCHITECTS * PIOLOGISTS	ECOLOGISTS ECONOMISTS	ECOLOGISTS ECONOMISTS ET ECTPICAT ENGINEERS	LANDSCAPE ARCHITE MECHANICAL ENGIN	LANDSCAPE ARCHITECTS MECHANICAL ENGINEERS	STRUCTURAL ENGINEERS *12 SURVEYORS TRAFFIC FNICHNEERS	S.
	EBECTANCAL ENVIRONME ** ESTIMATORS	ELECTANCAL ENGLASERAS ENVIRONMENTALISTS ESTIMATORS GEOT OCIETS	PHOTOGRAMMETRISTS PLANNERS: URBAN/R sanitado encinhedos	PHOTOGRAMMETRISTS PLANNERS: URBAN / REGIONAL	OTHER	
		HISTORIANS HYDROLOGISTS	SOILS ENGINEERS *** SPECIFICATION W	SOILS ENGINEERS SPECIFICATION WRITERS	19 TOTAL PERSONNEL	
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE:	EGISTERED PR	OFESSIONAL ENGI	NEERS IN PRIMARY OFF	ICE: 5		**************************************
(RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.)	ining must provid	le supporting documen	tation that qualifies them to	supervise and perform thi	s type of work.)	
* This work will be performed by one of our Sub-Consultants.	d by one of our S	ub-Consultants.				
1 ¹ Kenneth R. Crowe, P.E. primarily will perform Civil Engineering, but has Mining Engineering experience. 1 ² Edward L. Shutt, P.E. primarily will perform Quality Assurance/Constructability Reviews and Sanitary Engineering, but is also a Professional Land Surveyor.	imarily will perferarily will perform	orm Civil Engineering, n Quality Assurance/C.	but has Mining Engineering onstructability Reviews and	experience. Sanitary Engineering, but	is also a Professional Land	
** Estimating and Specification Writing is performed by RPEs in firm	on Writing is per	formed by RPEs in fir.	ω			
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11. OUTSIDE KEY CONSULTANTS/SUB-(Questionnaire".	OUTSIDE KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach "AML Consultant Confidential Qualification Questionnaire".	tach "AML Consultant Confidential Qualification
NAME AND ADDRESS: True Line Inc	SPECIALITY:	WORKED WITH BEFORE X Yes
P.O. Box 85 Thorpe, WV 24888	Surveying and Mapping	
NAME AND ADDRESS: H. C. Nutting	SPECIALITY:	WORKED WITH BEFORE X Yes
912 Morris Street Charleston, WV 25301	Geotechnical Engineering	No No
NAME AND ADDRESS:	SPECIALITY:	WORKED WITH BEFORE ———— Yes
тамент		No
NAME AND ADDRESS:	SPECIALITY:	WORKED WITH BEFORE
MONTH AND THE ADMINISTRATION OF THE ADMINIST		No
NAME AND ADDRESS:	SPECIALITY:	WORKED WITH BEFORE
		No
NAME AND ADDRESS:	SPECIALITY:	WORKED WITH BEFORE Yes
NAME AND ADDRESS:	SPECIALITY:	WORKED, WITH BEFORE Yes No
NAME AND ADDRESS:	SPECIALITY:	WORKED WITH BEFORE Yes No
NAME AND ADDRESS:	SPECIALITY:	WORKED WITH BEFORE Yes No

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15. PEKSONAL HISTORY STATEMENT OF but keep to essentials) NAME & TITLE (Last, First, Middle Int.)	VE FRINCIPALS AND ASSOCIATES RESPON	YEARS OF EXPERIENCE	THISH COMPLETE DATE
Upton, C. Dean President	1 EAKS OF AIML DESIGN EAFENCE.	EXPERIENCE: 33	WATERLINE DESIGN EXPERIENCE: 33
Brief Explanation of Responsibilities			
Mr. Upton is President of Stafford Consultants. As principal and supervises public works projects such as water and waster planning and athletic and recreational projects. His managem collection and treatment facilities. His design experience is properties of the collection and treatment facilities.	Mr. Upton is President of Stafford Consultants. As principal in charge, he monitors the planning, design, construction and financing of all projects. He design and supervises public works projects such as water and wastewater systems and treatment plants, industrial parks, airports, dams, storm drainage, community planning and athletic and recreational projects. His management experience consists of design and construction projects such as large water and wastewater collection and treatment facilities. His design experience is primarily related to sanitary projects. However, he is experienced in all areas of civil engineering.	in charge, he monitors the planning, design, construction and financing of all projects. He designs vater systems and treatment plants, industrial parks, airports, dams, storm drainage, community ent experience consists of design and construction projects such as large water and wastewater imarily related to sanitary projects. However, he is experienced in all areas of civil engineering.	all projects. He designs frainage, community ater and wastewater s of civil engineering.
EDUCATION (Degree, Year, Specialization)			
BS/1973/Civil Engineering/Marshall University	Marshall University		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS National Society of Professional Engineers, West Virginia Society of Professional Engineers	ANIZATIONS leers	REGISTRATION (Type, Year, State) Civil/1978/WV Civil/1986/VA	
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS but keep to essentials)	OF PRINCIPALS AND ASSOCIATES RESPO	AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data	rnish complete data
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Shutt, Edward L.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	Ξ Ξ
Vice President	20	34	EXPERIENCE: 34
Brief Explanation of Responsibilities			
Mr. Shutt is the Chief Environmental Engin the Chief Operations Officer. Some of Mr.		ater projects and quality assurance. As a prin n administration of wastewater treatment plan	cipal of the firm, he is its, lift stations and
sewage collection systems, design of water treatment plants, distribution systems streets, storm drainage, sanitary sewage collection system, lift station, water distrant an expert witness concerning construction claims, change orders and engineering the provided quality assurance and constructshility regions of AMT, projects		distribution systems and storage tanks, supervised design of an 120 acre industrial park including it station, water distribution system, wastewater treatment plant and storage tank. He has served a ders and engineering standards of practice. He was project manager for a WVDoH highway project of AMT intolects.	dustrial park including tank. He has served as VVDoH highway project.
EDUCATION (Degree, Year, Specialization)	on committy reverse or carry projects:	Advanced to the second	Market and the second s
BS/1969/Civil Engineering/	BS/1969/Civil Engineering/Virginia Polytechic Institute 1974-75/San	1974-75/Sanitary Engineering/Virginia Polytechnic Institute	ute
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS National Society of Professional Engineers, American Water Works Association, WV Land Surveyors Assoc., WV Society of Professional Engineers, WV Rural Water Assoc.	ANIZATIONS American Water Works Association, WV fessional Engineers, WV Rural Water Assoc.	REGISTRATION (Type, Year, State) Sanitary/1977/WV PLS/1996/WV	

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS but keen to essentials)		AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data	nish complete data
rst, Middle Int.) ineer	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 31	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0
Brief Explanation of Responsibilities Mr. Crowe is responsible for all structural and roadway design required for bridge and highway projects. He has been project manager and chief designer for all structural design for the \$6 million Merriman Athletic Facility at Virginia Tech, structural design for the private box additions to WVU football stadium and structural design of the Chuck Mathena Center for the Performing Arts in Princeton.	roadway design required for bridge and high npleted. In addition, he performed all structu to WVU football stadium and structural desig	way projects. He has been project manager a al design for the \$6 million Merriman Athlet n of the Chuck Mathena Center for the Perfor	nd chief designer for all tic Facility at Virginia Tech, rming Arts in Princeton.
EDUCATION (Degree, Year, Specialization)			
BS/1976/Civil Engineering/We	BS/1976/Civil Engineering/West Virginia Institute of Technology		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	ZATIONS	REGISTRATION (Type, Year, State) Civil/1980/WV Civil/19	e) Civil/1981/VA
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS but keep to essentials)		AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data	rnish complete data
rst, Middle Int.)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities			
EDUCATION (Degree, Year, Specialization)			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	IZATIONS	REGISTRATION (Type, Year, State)	

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13. PERSONAL HISTORY STATEMENT OF PRINCIPALS but keep to essentials)	ALS AND ASSOCIATES RESPON	AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data	nish complete data
rst, Middle Int.)	YEARS OF AMT. DESIGN EXPERIENCE:	YEARS OF EXPERIENCE YEARS OF AMI, RELATED DESIGN	YEARS OF DOMESTIC
Parsons, Don E. CADD Operator	11	EXPERIENCE: 16	WATERLINE DESIGN EXPERIENCE: 0
Brief Explanation of Responsibilities	The second secon		
Mr. Parsons is our Chief Draftsman and primarily performs CADD work on bridge and roadway projects. He has also does CADD work on water and sewer treatment plants, buildings and airports.	orms CADD work on bridge and road	lway projects. He has also does CADD work	on water and sewer
EDUCATION (Degree, Year, Specialization)	Constitution of the Consti		
Tazewell High School; Tazewell, VA/1968 Woodrow Wilson Rehabilitation Center; Fishersville, VA /1970 (School of Drafting – Technology) – Diploma	968 ;; Fishersville, VA /1970 (School of L	Orafting – Technology) – Diploma	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	SI	REGISTRATION (Type, Year, State)	
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but been to essentials)	ALS AND ASSOCIATES RESPON	ISIBLE FOR AML PROJECT DESIGN (Fur	nish complete data
NAME & TITLE (Last First Middle Int.)		YEARS OF EXPERIENCE	
<u>L.</u>	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 29	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 19
Brief Explanation of Responsibilities	A CONTRACTOR OF THE PROPERTY O	- Transmission - Tran	
Mr. Smith presently assists in the roadway design/grading required for industrial parks, bridge and highway projects. He has experience in earthwork calculations and drainage runoff and facility design. He is an advanced CADD operator and very knowledgeable in the usage of InRoads SelectCAD an AutoCAD Civil 3D, advanced 3D earthwork modeling programs primarily used for roadway design, but applicable to any project with cut and fill work.	ing required for industrial parks, brid e is an advanced CADD operator and programs primarily used for roadwa	luired for industrial parks, bridge and highway projects. He has experience in earthwork advanced CADD operator and very knowledgeable in the usage of InRoads SelectCAD and ums primarily used for roadway design, but applicable to any project with cut and fill work.	in earthwork s SelectCAD and ut and fill work.
			To control to the con
EDUCATION (Degree, Year, Specialization)			
Certificate for Civil Technology I and II/1979/Raleigh County Vocational Education Center	I/1979/Raleigh County Vocational E	ducation Center	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	4S	REGISTRATION (Type, Year, State)	

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13. PERSONAL HISTORY STATEMENT O	13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data	VSIBLE FOR AML PROJECT DESIGN (Fur	nish complete data
but keep to essentials)		YFARS OF EXPERIENCE	
NAME & 111LE (Last, First, Middle Int.) Kemp, Reggie K. CADD Operator	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 16	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 14
Brief Explanation of Responsibilities			
Mr. Kemp primarily performs CADD work on water and wastewater projects.	on water and wastewater projects.		
EDUCATION (Degree, Year, Specialization)			
AAS/1987/Wytheville Community College/Mechanical	ollege/Mechanical and Machine Drafting		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	NIZATIONS	REGISTRATION (Type, Year, State)	
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS but keen to essentials)	OF PRINCIPALS AND ASSOCIATES RESPO	AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data	mish complete data
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	Chrankon an sakary
Wyatt, Timothy D. Resident Project Representative	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML KELATED DESIGN EXPERIENCE: 30	WATERLINE DESIGN EXPERIENCE: 34
Brief Explanation of Responsibilities	The second secon		
Mr. Wyatt presently serves as a resident pro He has served as a superintendent for an ea	Mr. Wyatt presently serves as a resident project representative overseeing water projects including line installation, tank installation and treatment plant construction. He has served as a superintendent for an earthmoving contractor and has performed permitting of mining facilities.	cluding line installation, tank installation and ting of mining facilities.	treatment plant construction.
EDUCATION (Degree, Year, Specialization)			
AS/1977/Civil and Mining	AS/1977/Civil and Mining Engineering Technology/Bluefield State College	v.	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	ANIZATIONS	REGISTRATION (Type, Year, State)	

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13. PERSONAL HISTORY STATEMENT (but keep to essentials)	PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)	ISIBLE FOR AML PROJECT DESIGN (Fur	nish complete data
NAME & TITLE (Last, First, Middle Int.) Berry, Howard Designer/Contract Administrator	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 22	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 22
Brief Explanation of Responsibilities Mr. Berry primarily assists in water and waextensive experience in contract administrate also has several years experience as a re	ief Explanation of Responsibilities Mr. Berry primarily assists in water and wastewater project design including line layout, quantity calculations, permitting and CADD work. In addition he has extensive experience in contract administration including change orders, processing pay requests, substantial and final completion inspections and project closeout. He also has several years experience as a resident project representative on both water and wastewater projects.	antity calculations, permitting and CADD wo uests, substantial and final completion inspecvastewater projects.	ork. In addition he has
EDUCATION (Degree, Year, Specialization) BA/1994/West Virginia Institute of Technology	"echnology AS/1980/Mining Technology/Beckley College	seckley College	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS hat keen to essentials)	DF PRINCIPALS AND ASSOCIATES RESPON	AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data	rnish complete data
NAME & TITLE (Last, First, Middle Int.) Burns, Sidney P. Sr. Resident Project Representative	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 49	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 27
Brief Explanation of Responsibilities Mr. Burns presently serves as a senior resi construction. As a inspection supervisor w	ief Explanation of Responsibilities Mr. Burns presently serves as a senior resident project representative overseeing water projects including line installation, tank installation and treatment plant construction. As a inspection supervisor with the WVDoH he worked on several sections of I-64, I-77 and Corridor L.	ects including line installation, tank installati	on and treatment plant
EDUCATION (Degree, Year, Specialization)			
1958/Diploma/Greenbrier High School	ligh School		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	NIZATIONS	REGISTRATION (Type, Year, State)	

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AML DESIGN SERVICES.
AutoCAD Release 2000; and AutoCAD Civil 3D — General drafting and earthwork modeling software.
InRoads SelectCAD $-3D$ surface modeling with plan layout, cross section development, cut and fill calculation capability.
HEC-RAS – US Army Corps of Engineers River Analysis System. Used for channel relocation or design.
HEC-1 and 2 – US Army Corps of Engineers Flood Hydrograph and Water Surface Profile programs.
HYDRAIN – FHWA family of hydraulics programs. Includes runoff calculations, pipe sizing, etc.
WinTR-55 – USDA Small Watershed Hydrology software.
EXCEL & WORD – Industry standard spreadsheet and word processing software.
WaterCAD – Waterline Design and Analysis software
HydroCAD – Surface runoff calculations and pond and retention structure analysis.
RETWALL, FOOTING, BeamPro, General Frame Analysis, etc. – Various structural design programs.
HP Plotters – HP800 and HP2800 for final tracing plotting on paper, vellum or film.
Leitz Set 4 total station with Carlson Explorer data collector.

•	15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIG	DESIGNATED ENGINEER OF RECORD		
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
SD	Jumping Branch/Nimitz PSD P.O. Box 69 Nimitz, WV 25978	Report - Preliminary Engineering Report	N/A	Report 90%
ission Water Study	Mercer County Commission 1501 W. Main Street Princeton, WV 24740	Preliminary Engineering Report	N/A	Report - 95%
Waterline V	City of Summersville P.O. Box 525 Summersville, WV 26651	Report, Design, Construction Administration & Resident Project Representation	\$6,000,000	Report - 100% Design 10%
	New Haven PSD Route 1, Box 123C Favetteville, WV 25840	Report, Design, Construction Administration & Resident Project Representation	\$3,200,000	Design - 75%
City of Welch Indian Ridge/Industrial Park McDowell County, WV	City of Welch 88 Howard Street Welch, WV 24901	Report, Design, Construction Administration & Resident Project Representation	\$6,800,000	Report - 100% Design - 100% Bidding/Negotiations - 50% Construction - 0%
Town of Alderson Water Plant Improvements Greenbrier County. WV	Town of Alderson P.O. Box 179 Alderson, WV 24910	General Consulting	N/A	As Needed
Logan County PSD Phase IIA Sewer Logan County. WV	Logan County PSD P.O. Box 506 Logan, WV 25601	Report, Design, Construction Administration & Resident Project Representation	\$6,000,000	Design - 100%
McDowell County PSD Coalwood Wastewater Treatment & Collection System McDowell County, WV	McDowell County PSD HC 31 Box 436 J Welch, WV 24801	Feasibility Study	\$2,500,000	Feasibility Study - 100%
McDowell County PSD Iaeger Water System Replacement McDowell County, WV	McDowell County PSD HC 31 Box 436 J Welch, WV 24801	Design, Construction Administration & Resident Project Representation	\$2,800,000	%09
gs & Forest	Big Bend PSD P.O. Box 114 Talcott, WV 24981	Report and Study	\$4,300,000	Report - 100%
Town of Renick / Falling Springs Renick Water System Greenbrier County, WV	Falling Springs Corporation P.O. Box 116 Renick, WV 24966	Report, Design, Construction Administration & Resident Project Representation	\$2,390,000	Report - 100% Design - 100%
Logan County PSD Northfork Water Logan County, WV	Logan County PSD P.O. Box 506 Logan, WV 25601	Plan, Design and Construction phase engineering for waterline extension.	\$2,000,000	40%

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD	CH YOUR FIRM IS THE DESIC	NATED ENGINEER OF RECORL		
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Coalfields Expressway Highway & Bridge Design McDowell County, WV	WV Division of Highways Building 5, Room A317 1900 Kanawha Boulevard E. Charleston, WV 25305	Design and preparation of contract documents for 5.25 miles of four-lane highway including two bridges and two access roads.	\$150,000,000	Design - 80%
City of Princeton Wastewater Treatment Plant Expansion Princeton, WV	Princeton Sanitary Board 227 South Wickham Avenue Princeton, WV 24740	Design and preparation of contract documents needed to expand existing aeration capacity and construct additional aerobic digester.	\$6,500,000	Study - 100%
Glade Springs Utilities, East Beckley, WV	Cooper Land Development 903 North 47th Street Rogers, AR 72756	Design and preparation of Contract Documents for waterline construction.	\$6,700,000	55%
Douthat Water Extension Alleghany County, VA	Alleghany County Low Moore, VA	Plan, Design and Construction phase engineering for waterline extension and booster station.	\$1,200,000	20%
Big Bend PSD Armory/Wiggins Water Summers County, WV	Big Bend PSD P.O. Box 114 Talcott, WV 24981	Plan, Design and Construction phase engineering for waterline extension.	\$1,000,000	30%
Rolfe Arch Bridge Bridge Replacement Project Rolfe, McDowell County, WV	WV Division of Highways Building 5, Room A317 1900 Kanawha Boulevard E. Charleston, WV 25305	Design and preparation of contract documents for a new bridge over North Fork of Elkhorn Creek at Rolfe.	\$900,000	Design – 100% Construction – 20%
Cass Arch Bridge Bridge Replacement Project Cass, Pocahontas County, WV	WV Division of Highways Building 5, Room A317 1900 Kanawha Boulevard E. Charleston, WV 25305	Design and preparation of contract documents for a new bridge over the Greenbrier River at Cass.	\$1,100,000	%86
SECONO REFERENCE AL LOCAL PARTIES				
		·		
TOTAL NUMBER OF PROJECTS:	19	TOTAL ESTIMAT	TOTAL ESTIMATED CONSTRUCTION COSTS: \$204,890,000	: \$204,890,000

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	RUCTION COST	YOUR FIRMS RESPONSIBILITY	\$20,000,000		adagapatur ada ing sa Santa di panahu			
	ESTIMATED CONSTRUCTION COST	ENTIRE PROJECT F	\$60,000,000					
T TO OTHERS	ESTIMATED COMPLETION DATE		January 2009					
VING AS A SUB-CONSULTAN	NAME AND ADDRESS OF OWNER		City of Princeton 100 Courthouse Road Princeton, WV 24740					
HICH YOUR FIRM IS SER	NATURE OF FIRM'S RESPONSIBILITY		Feasibility Study – Site Civil and Utilities					
16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS	PROJECT NAME, TYPE AND LOCATION		Epic Event Center Mercer County, WV	ė		ō		

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD	AST 5 YEARS ON WHICH YOUR	R FIRM WAS THE DESIGNATE	DENGINEER OF RECORD	
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Oakvale Road PSD Contract No. 1 - Pisgah Road/Old Athens Road Waterline / Booster Station Mercer County, WV	Oakvale Road PSD P.O. Box 1061 Princeton, WV 24740	\$1,380,000	2003	Yes
Oakvale Road PSD Contract No. 2 - Water Storage Mercer County, WV	Oakvale Road PSD P.O. Box 1061 Princeton, WV 24740	\$240,000	2003	Yes
Oakvale Road PSD Contract No. 4 - Water Storage Mercer County, WV	Oakvale Road PSD P.O. Box 1061 Princeton, WV 24740	\$181,700	2003	Yes
Summers County Commission Sand Knob/Cave Ridge Waterline Summers County, WV	Summers County Commission P.O. Box 97 Hinton, WV 25951	\$482,000	2003	Yes
Oakvale Road PSD Contract no. 3 - Waterline Summers County, WV	Oakvale Road PSD P.O. Box 1061 Princeton, WV 24740	\$650,000	2003	Yes
Danese PSD Water System Ext. & Replacement Fayette County, WV	Danese PSD P.O. Drawer C Danese, WV 25831	\$1,200,000	2003	Yes
Garrett Fork Water System Extension Project Logan County, WV	Logan County PSD P.O. Box 506 Logan, WV 25601	\$1,800,000	2003	Yes
Lewisburg City Hall Renovations Project Greenbrier County, WV	City of Lewisburg P.O. Box 548 Lewisburg, WV 24901	\$1,120,000	2003	Yes
Camden Avenue I-77 Bridge Bridge Widening Project Wood County, WV	WV Division of Highways Building 5, Room A317 1900 Kanawha Boulevard Charleston, WV 25305	\$2,500,000	2003	No
New Haven PSD - Contract 12 Saturday Road Waterline Fayette County, WV	New Haven PSD Route 1 Box 123 C Fayetteville, WV 25840	\$1,290,000	2004	Yes
New Haven PSD - Contract 12/13 Paint Creek / Plum Orchard Fayette County, WV	New Haven PSD Route 1 Box 123 C Fayetteville, WV 25840	\$1,067,000	2004	Yes
New Haven PSD Phases IIIA/IIIB Waterline/Storage Tank Fayette County, WV	New Haven PSD Route 1 Box 123 C Fayetteville, WV 25840	\$5,752,500	2004	Yes

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD	AST 5 YEARS ON WHICH YOUR	FIRM WAS THE DESIGNATED	ENGINEER OF RECORD	
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Wilderness PSD Old Nicholas Road/Hominy Falls Waterline/Storage Tank Nicholas County, WV	Wilderness PSD P.O. Box 37 Mt. Nebo, WV 26679	\$3,500,000	2004	Yes
City of Hinton Area Sewer Extension - Phase IIIB - Armory - Route 3 Waterline Summers County, WV	Hinton Sanitary Board 322 Summers Street Hinton, WV 25951	\$1,450,000	2004	Yes
City of Summersville Regional Water Plant/Intake Contracts 1, 2 and 3 Nicholas County, WV	City of Summersville P.O. Box 525 Summersville, WV 26651	\$9,100,000	2004	Yes
Logan County PSD Huff Creek Water System Extension Logan County, WV	·Logan County PSD P.O. Box 506 Logan, WV 25601	\$3,775,000	2004	Yes
Town of Oakvale Road Public Service District Sidewalk & Drainage Improvement Project Oakvale, Mercer County, WV	Town of Oakvale Road Public Service District P.O. Box 187 Oakvale, WV 24739	\$210,000	2004	Yes
Grapevine Creek Bridge Bridge Replacement Project Near Matewan Mingo County, WV	WV Division of Highways Building 5, Room A317 1900 Kanawha Boulevard E. Charleston, WV 25305	\$861,000	2004	Yes
Hutchinson Branch Bridge Bridge Replacement Project Gilboa, Nicholas County, WV	WV Division of Highways Building 5, Room A317 1900 Kanawha Boulevard E. Charleston, WV 25305	\$1,225,000	2004	Yes
Wiggins Bridge Bridge Replacement Project Hinton, WV	WV Division of Highways Building 5, Room A317 1900 Kanawha Boulevard E. Charleston, WV 25305	\$1,415,000	2004	Yes
Town of Matoaka - Sewer System Improvements Project Mercer County, WV	Town of Matoaka P.O. Box 528 Matoaka, WV. 24736	\$600,000	2005	Yes
Town of Athens Wastewater Plant Athens, WV	Town of Athens 202 State Street Athens, WV 24712	\$3,500,000	2005	Yes

PROJECT NAME, TyPE AND NAME AND ADDRESS OF OWETHA/TED ENTIMATED YEAR CONSTRUCTS Medight Training Paculty Marchell University 2000 2000 Yea Meright Training Paculty Soviel Maintenance Building \$2,90,000 2006 Yea Hamilgon, WY Hamilgon, WY 25755 Street Yea Yea Logan County, WY Logan, WY 25755 Street Yea Yea Regist Road - Elgood Water Extension Moreor County Counts Store No. Box 7800 2006 Yea Logan County, WY Cantar PSD Cantar PSD S22,000,000 2006 Yea Logan County, WY Logan County PSD Cantar PSD S22,000,000 2006 Yea Logan County, WY Logan County PSD Logan County PSD Logan County PSD Yea Logan County, WY Logan County PSD Logan WY 25601 S22,000,000 2007 Yea Logan County, WY Logan County PSD Logan County WY Logan WY 25601 S23,000 No Logan County, WY Logan C	17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD	ST 5 YEARS ON WHICH YOUR	FIRM WAS THE DESIGNATEL	ENGINEER OF RECORD	
Training Facility	PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
world Flight School Logan Co. Board of Education \$150,000 2006 Road PSD Logan, WV 25601 \$800,000 2006 Road PSD Mercer County Commission \$800,000 2006 County, WV Princeton, WV 24740 \$200,000 2006 SSD Center PSD \$20,000,000 2006 Pinceton, WV 24874 \$20,000,000 2006 Sign County, WV Pinceton, WV 24874 \$20,000,000 2006 Socky Waterline Extension Logan County PSD \$2,000,000 2006 Socky Waterline Extension Logan County PSD \$20,000,000 2007 Socky Waterline Extension Logan County PSD \$20,000,000 2007 Socky Waterline Extension Logan Wy 2401 \$350,000 2007 Socky Waterline Extension Cooper Land Development \$22,000,000 2007 Socky Waterline Extension Cooper Land Development \$22,000,000 2007 Socurty, WV Wy Yorly Affector Cooper Land Development \$22,000,000 2007 Finiteston, WY Wy Yorly Affector <td>Weight Training Facility Marshall University Huntington, WV</td> <td>Marshall University Sorrell Maintenance Building 20th Street Huntington, WV 25755</td> <td>\$2,900,000</td> <td>: 2006</td> <td>Yes</td>	Weight Training Facility Marshall University Huntington, WV	Marshall University Sorrell Maintenance Building 20 th Street Huntington, WV 25755	\$2,900,000	: 2006	Yes
Road PSD Mercer County Commission \$800,000 2006 County, WV Princeton, WV 24740 \$200,000 2006 SD Princeton, WV 24874 \$2200,000 2006 Binprovements Pro. Box 760 \$2,000,000 2006 By County, WV Pro. Box 760 \$2,000,000 2006 By County, WV Pro. Box 506 \$2,000,000 2006 Cooky Waterline Extension Logan, WV 25601 \$2,000,000 2007 Robings Extension Logan, WV 25601 \$2,000,000 2007 Cooky Waterline Extension Logan, WV 25601 \$2,000,000 2007 Robings Extension Logan, WV 22401 \$2,000,000 2007 Rober All Robings Extension City of Waterlands \$2,500,000 2007 Rober All Robings Village - West City of Waterlands \$2,500,000 2007 Rober Land Development \$2,000,000 2007 Park Sewer Cooper Land Development \$2,000,000 2007 Rogers, AR 77756 Rogers, AR 77756 2007 <td< td=""><td>Chapmanville High School Site Development Logan County, WV</td><td>Logan Co. Board of Education Logan, WV 25601</td><td>\$150,000</td><td>2006</td><td>Yes</td></td<>	Chapmanville High School Site Development Logan County, WV	Logan Co. Board of Education Logan, WV 25601	\$150,000	2006	Yes
'SD Center PSD S200,000 2006 Brig County, WV P.O. Box 560 \$2,000,000 2006 County PSD Logan County PSD \$2,000,000 2006 County PSD Logan, WV 25601 \$2,000,000 2007 County, WV Logan, WV 25601 \$2007 \$2007 Cocky Waterline Extension Logan, WV 25601 \$2007 Cocky Waterline Extension Logan, WV 25505 \$2007 Challeston, WV Logan, WV 25505 \$350,000 Challeston, WV 2440 \$3550,000 \$2007 Sidewalk Projects City of Welch \$2,300,000 County, WV Regers, AR 72756 \$2,300,000 Sewer Gounty, WV Rogers, AR 72756 Sewer Poor Rogers, AR 72756 Sewer Poor Poor Poor Park Poor Park Poor Park Poor Park Park Park Poor Park Poor Park <t< td=""><td>Oakvale Road PSD Pisgah Road - Elgood Water Extension Project Mercer County, WV</td><td>Mercer County Commission 1501 W. Main Street Princeton, WV 24740</td><td>\$800,000</td><td>2006</td><td>Yes</td></t<>	Oakvale Road PSD Pisgah Road - Elgood Water Extension Project Mercer County, WV	Mercer County Commission 1501 W. Main Street Princeton, WV 24740	\$800,000	2006	Yes
Sounty PSD Logan County PSD \$2,000,000 2006 Socky Waterline Extension P.O. Box 506 2006 2006 Sounty, WV Logan, WV 25601 2007 2007 rch Bridge Aplacement Project Acplacement Project Acplacement Project Spaniding, WV 25305 Buildings, X 8 xoom A317 \$900,000 2007 Acplacement Project Acplacement Project Acplacement Project Acplacement Project Acplacement Project Spanidistry, WV City of Princeton 2007 2007 Melch Countly, WV City of Welch Acplacet Acplacet Acplacet Acplacet Acplacet Spanidistry, WV S2,300,000 2007 2007 Prings Village - West Spanidistry Dozoer Land Development Rogers, AR 72756 \$2000 2007 2007 Park Rogers, AR 72756 Pack Hospitality, LLC \$500,000 2007 Princeton, WV 24740 Park Politices P.O. Box 1715 Princeton, WV 24740 2007 2007	Center PSD WWTP Improvements Wyoming County, WV	Center PSD P.O. Box 760 Pineville, WV 24874	\$200,000	2006	Yes
Second Project Building 5, Room A317 S900,000 2007 Building 5, Room A317 S900,000 2007 Building 5, Room A317 S900,000 2005-2007 Charleston, WV 25305 S550,000 Charleston, WV 24740 S1550,000 2005-2007 Charleston, WV 24740 S150,000 2007 City of Welch Second Street S2,300,000 S2,300,000 City of Welch Second Street S2,300,000 S2,300,000 City of Welch Second Street S2,000,000 S2,007 City of Welch WV 24740 S2,000,000 S2,007 City of Welch WV 24901 S2,000,000 S2,007 City of Welch Second Street S2,000,000 S2,007 City of Welch WV 24901 S2,000,000 S2,007 City of Welch WV 24740 S2,000,000 S2,007 S2,007 City of Welch WV 24740 S2,000,000 S2,007 S2,007 City of Welch WV 24740 S2,000,000 S2,007 S2,00	Logan County PSD Caney-Rocky Waterline Extension Project Logan County, WV	Logan County PSD P.O. Box 506 Logan, WV 25601	\$2,000,000	2006	Yes
ton City of Princeton valk Projects \$350,000 2005-2007 y, WV Princeton, WV 24740 \$350,000 2005-2007 princeton, WV 24740 \$2,300,000 2007 ain Water/Sewer and Welch, WV 24901 \$2,300,000 2007 welch, WV 24901 \$2,000,000 2007 ty, WV Rogers, AR 72756 \$2,000,000 2007 Pillities P.O. Box 1715 \$10. Box 1715 Princeton, WV 24740 \$2007	Rolfe Arch Bridge Bridge Replacement Project Rolfe, McDowell County, WV	WV Division of Highways Building 5, Room A317 1900 Kanawha Boulevard, E. Charleston, WV 25305	\$900,000	2007	٥Z
ain Water/Sewer nunty, WV City of Welch 88 Howard Street \$2,300,000 2007 welch, WV 24901 \$2,300,000 2007 village - West Cooper Land Development 903 North 47th Street \$2,000,000 ty, WV Rogers, AR 72756 . 2007 Julities P.O. Box 1715 Princeton, WV 24740 \$500,000 .	City of Princeton Various Sidewalk Projects Mercer County, WV	City of Princeton 100 Courthouse Road Princeton, WV 24740	\$350,000	2005-2007	On going
i Village - West Cooper Land Development \$2,000,000 2007 Str. WV Rogers, AR 72756 . P&G Hospitality, LLC \$500,000 Princeton, WV 24740	City of Welch Tom's Mountain Water/Sewer McDowell County, WV	City of Welch 88 Howard Street Welch, WV 24901	\$2,300,000	2007	Yes
P&G Hospitality, LLC \$500,000 2007 P.O. Box 1715 \$500,000 Princeton, WV 24740	Glade Springs Village - West Water & Sewer Raleigh County, WV	Cooper Land Development 903 North 47 th Street Rogers, AR 72756	\$2,000,000	2007	Yes
	Paradise Park Grading and Utilities Princeton, WV	P&G Hospitality, LLC P.O. Box 1715 Princeton, WV 24740		2007	Yes

	CONSTRUCTED (YES OR NO)	Yes						
ENGINEER OF RECORD	YEAR	2007						
FIRM WAS THE DESIGNATEL	ESTIMATED CONSTRUCTION COST	\$1,000,000						
ST 5 YEARS ON WHICH YOUR.	NAME AND ADDRESS OF OWNER	City of Welch 88 Howard Street Welch, WV 24801		· ·				
17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD	PROJECT NAME, TYPE AND LOCATION	Welch Sewer Improvements Welch, WV						

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	SIGN PERSONNEL Joint-Venture J	PATE (DAY, MONTH, YEAR) FEIN	ADDRESS/ TELEPHONE/ PERSON 2. HOME OFFICE P. O. Box 85, R Thorpe, WV Thorpe, WV Thorpe, WV 1985 ADDRESS/ TELEPHONE/ PERSON 1988 / 304-448-2116 / Dwight of the person of the per	True Line, Inc. True Line, Inc. True Line, Inc. True Line, Inc. 4. HOME OFFICE TELEPHONE 7. PRIMARY AML DESIGN OFFICE: P.O. Box 85, Thorpe, WV 8. NAMES OF PRINCIPAL OFFICERS Dwight Gillespie - President Vera Gillespie - Secretary & Trea 9. PERSONNEL BY DISCIPLINE (Bolderation of the color of th
· The state of the	+ ************************************			
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* RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work. None	E: 2	NEERS IN PRIMARY OFFIC	JISTERED PROFESSIONAL ENGI	TOTAL NUMBER OF WV REC
ABER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: than Civil and Mining must provide supporting documentation that qualifies them to supervi				DRAFTSMEN
DRAFTSMEN TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE:2 * RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work. None	IGINEERS SERS ON WRITERS	SANITARY EN SOILS ENGINE SPECIFICATIC	GEOLOGISTS HISTORIANS HYDROLOGISTS	CIVIL ENGINEERS CONSTRUCTION INSPECTORS DESIGNERS
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ENVIRONMENTALISTS ESTIMATORS ESTIMATORS GEOLOGISTS HISTORIANS OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 2 Sixil and Mining must provide supporting documentation that qualifies them to supervise and perform this	, ENGINEERS INEERS	MECHANICAL MINING ENG	ECONOMISTS ELECTRICAL ENGINEERS	ARCHITECTS BIOLOGISTS
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E, & TELEPHONE NUMBER - OTHER P.E. & PLS James H. Corner, IS, P. E. JAMES H. Corner, IS, P. E. JOSCAPE ARCHITECTS CHANICAL ENGINEERS JOTOGRAMMETRISTS AINGERS: URBAN / REGIONAL AITARY ENGINEERS LS ENGINEERS CIFICATION WRITERS SET THEM TO SUPERVISE and perform this type		Gillespie / Surveying only	24888 / 304-448-2116 / Dwight	P.O. Box 85, Thorne, WV
FIRM Sa. NAME, TITLE, & TELEPHONE NUMBER - OTHER John E. Caffrey, P.E. & PLS James H. Corner, Stacey B. Mullens, P. E. Minimum Design Team Members MECHANICAL ENGINEERS PHOTOGRAMMETRISTS PHOTOGRAMMETRISTS PHOTOGRAMMETRISTS PHOTOGRAMMETRISTS PHOTOGRAMMERS SANITARY ENGINEERS SOILS ENGINEERS SPECIFICATION WRITERS SPECIFICATION WRITERS SPECIFICATION description that qualifies them to supervise and perform this type.	SIGN PERSONNEL 1	IN CHARGE/NO. AML DE	ADDRESS/ TELEPHONE/ PERSON	PRIMARY AML DESIGN OFFICE:
HONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH O 116 / Dwight Gillespie / Surveying only FIRM 8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER John E. Caffrey, P. E. & PLS James H. Corner, Stacey B. Mullens, P. E. Minimum Design Team Members) Stacey B. Mullens, P. E. Minimum Design Team Members MECHANICAL ENGINEERS SAUTALISTS PHOTOGRAMMETRISTS PHOTOGRAMMETRISTS PHOTOGRAMMETRISTS SANITARY ENGINEERS SOILS ENGINEERS SOILS ENGINEERS SPECIFICATION WRITERS SIONAL ENGINEERS IN PRIMARY OFFICE: 2 Specific them to supervise and perform this type	Joint-Venture	Partnership	1985	(304) 448-2116
HONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH O 116 / Dwight Gillespie / Surveying only FIRM Sa. NAME, TITLE, & TELEPHONE NUMBER - OTHER John E. Caffrey, P. E. & PL.S Minimum Design Team Members) LANDSCAPE ARCHITECTS MECHANICAL ENGINEERS SANITARY ENGINEERS SANITARY ENGINEERS SANITARY ENGINEERS SOIL.S ENGINEERS SOIL.S ENGINEERS SOIL.S ENGINEERS SOIL.S ENGINEERS SOIL.S ENGINEERS SPECIFICATION WRITERS SPECIFICATI	V Corporation	6. TYPE OWNERSHIP Individual	5. ESTABLISHED (YEAR)	***************************************
YEAR) YEAR) YEAR YEAR YEAR Individual Partnership IONIE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OF THE STATE & TELEPHONE NUMBER - OTHER John E. Caffrey, P.E. & PLS James H. Corner, Stacey B. Mullens, P. E. MINING ENGINEERS MECHANICAL ENGINEERS YHANNERS: URBAN / REGIONAL SANITARY ENGINEERS SOILS ENGINEERS SOILS ENGINEERS SIONAL ENGINEERS IN PRIMARY OFFICE: 2 STONAL ENGINEERS IN PRIMARY OFFICE: 3 STONAL ENGINEERS	ACAMAN III III III III III III III III III I	24888	WV	
Horpe, WV 24888 YEAR) G. TYPE OWNERSHIP Individual Partnership Fourty-Venture HONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OF Sa. NAME, TITLE, & TELEPHONE NUMBER OTHER Sa. NAME, TITLE, & PLS John E. Caffrey, P. E. & PLS James H. Corner, Stacey B. Mullens, P. E. Minimum Design Team Members) S. HONDSCAPE ARCHITECTS MECHANICAL ENGINEERS PHOTOGRAMMETRISTS PHOTOGRAMMETRISTS PHOTOGRAMMETRISTS PHOTOGRAMMETRISTS SANITARY ENGINEERS SANITARY ENGINEERS SOLLS ENGINEERS SOLLS ENGINEERS SOLLS ENGINEERS SPECIFICATION WRITERS STONAL ENGINEERS IN PRIMARY OFFICE:		t. 103	P. O. Box 85, R	
2. HOMB OF FIGER BOUNDESS ADDRESS 2. FORWIRK FIRE 19. Forwing and perform this type. 2488.		October 4000	(7)	RFQ No. DEP14439
True Line, Inc. 2. HOME OFFICE BUSINESS ADDRESS 3. FORMER FIRE P. O. Box 85, Rt. 103 Partnership Comporation Composition Compo				Maybeury (Cakley) Lamusine
Cotober 2008 S5-06		TH, YEAR)	DATE (DAY, MON	A A I I (O . I. I) If A. I. I. I.
DATE (DAY, MONTH, YEAR) FEIN 55-00	FEIN		Total State	PROJECT NAME
The same of the sa		3. FORN Corporation Joint-Venture SIGN PERSONNEL SA James H. SACHITECTS JAMES H. SHONE NUMBER BRICHITECTS JAMES H. SHORNERS METRISTS	BUSINESS ADDRESS 1. 103 24888 6. TYPE OWNERSHIP Individual Partnership Voint-Venture John E. Caffrey, P.E. & PLS	OME OFFICE B O. Box 85, Rt horpe, WV 2 YEAR) HONE/ PERSON Minimum Design S S S S C ENGINEERS S S S S S S S S S S S S S S S S S S

11. OUTSIDE KEY CONSULTANTS/SUB-C Ouestionnaire".	OUTSIDE KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach "AML Consultant Contidential Qualification Ouestionnaire".	ach "AML Consultant Contidential Qualification
NAME AND ADDRESS:	SPECIALITY:	WORKED WITH BEFORE
N/A		No
NAME AND ADDRESS:	SPECIALITY:	WORKED WITH BEFORE Yes No
NAME AND ADDRESS:	SPECIALITY:	WORKED WITH BEFORE Yes No
NAME AND ADDRESS:	SPECIALITY:	WORKED WITH BEFORE YesNo
NAME AND ADDRESS:	SPECIALITY:	WORKED WITH BEFORE ——— Yes ——— No
NAME AND ADDRESS:	SPECIALITY:	WORKED WITH BEFORE ———————————————————————————————————
NAME AND ADDRESS:	SPECIALITY:	WORKED WITH BEFORE Yes No
NAME AND ADDRESS:	SPECIALITY:	WORKED WITH BEFORE Yes No
NAME AND ADDRESS:	SPECIALITY:	WORKED WITH BEFORE Yes No

12. A. Is your firm experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering? YES Description and Number of Projects:
Surveying only
NO
B. Is you firm experienced in Soil Analysis?
YES Description and Number of Projects:
Surveying only
NO
C. Is your firm experienced in hydrology and hydraulics?
YES
Surveying only
D. Does your firm produce its own Aerial Photography and Develop Contour Mapping?
Surveying and Contour Manning
E. Is your firm experienced in domestic waterline design? (Include any experience your firm has in evaluation of aquifer degradation as a result of mining.)
YES
Surveying only
NO
F. Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?
YES Description and Number of Projects:
Surveying only
ON .

but keep to essentials)			
NAME & TITLE (Last. First. Middle Int.)		YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	NE SE
James H. Corner	0	9	EXPERIENCE: 0
Brief Explanation of Responsibilities Plot Surveys Produce Site plans Overburden calculations Hydrologic designs	Property Plats Gas Well Plats		
EDUCATION (Degree, Year, Specialization) B.S. Civil Engineering (Graduation Dec. 2004) B. S. Mining Engineering (Graduation Dec. 2006)	Dec. 2004) ion Dec. 2006)		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS WV Secretary of Professional Surveyors	ANIZATIONS	REGISTRATION (Type, Year, State) Professional Surveyor (2006) WV# 213750 Engineer Intern (2004) WV# 8649	750
13. PERSONAL HISTORY STATEMENT OF PRINCIPAL but keen to essentials)	NT OF PRINCIPALS AND ASSOCIATES RE	LS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data	(Furnish complete data
NAME & TITLE (Last. First. Middle Int.)		YEARS OF EXPERIENCE	The state of the s
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN
Stacey B. Mullens	0	17	EXPERIENCE: 0
Brief Explanation of Responsibilities Plot Surveys			
Produce Site plans Overburded calculations			
Hydrologic designs			
EDUCATION (Degree, Year, Specialization) B.S. Civil Engineering (Graduation 1995) B. S. Mining Engineering (Graduation 2007)	1995) ion 2007)		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS None	ANIZATIONS	REGISTRATION (Type, Year, State) Professional Engineer (2002) WY Professional Engineer (2003) VA	WV# 15423 V A # 019682

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AML DESIGN SERVICES.
Leica Single Frequency GPS System
Sokkia Set 610 Total Station
Solkia Set 630R Total Station
Sokkia Set 4B Total Station
Carlson Explorer Data Collector (SurvCE 2.0 software)
HP 48 / SMI Data Collector (version 5 () software)
AutoCAD 2005
SurvCADD 2006 for Auto CAD (COGO DTM. Profile & Mining Modules)
SKI GPS Post Processino Software
SEDCAD 40
Cornson 6 (Coordinate Conversion Software)

	PERCENT COMPLETE						303 May 10 - 30 - 30 - 30 - 30 - 30 - 30 - 30 -	
ORD	ESTIMATED CONSTRUCTION COST					•		
15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD	NATURE OF YOUR FIRM'S RESPONSIBILITY	Surveying only						
WHICH YOUR FIRM IS THE DI	NAME AND ADDRESS OF OWNER	Surveyi						
15. CURRENT ACTIVITIES ON	PROJECT NAME, TYPE AND LOCATION							

	ESTIMATED CONSTRUCTION COST	YOUR FIRMS RESPONSIBILITY	Project Oversite	Surveying	And Control of the Control of Con		
	ESTIMATED CON	ENTIRE PROJECT					
TO OTHERS	ESTIMATED COMPLETION	DATE	11/01/07	2007			Walth expensively floor characteristics and the contraction of the con
RVING AS A SUB-CONSULTANT	NAME AND ADDRESS	, (T)	Potesta & Associates, Inc. 7012 MacCorkle Ave., S.E. Charleston, WV 25304	Clark Construction Group 101 Federal Drive Welch, WV 24801			AND THE PROPERTY OF THE PROPER
HICH YOUR FIRM IS SEI	NATURE OF FIRM'S RESPONSIBILITY						
16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS	PROJECT NAME, TYPE AND		Bradshaw School / Road Re-location	City of Welch water tank site			

CONSTRUCTED (YES OR NO)				and the second of the second o	northur Education Should	200	
OF RECORD YEAR							
17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD PROJECT NAME, TYPE AND OF OWNER LOCATION OF OWNER	Surveying only						
ST S YEARS ON WHICH YOUR FI NAME AND ADDRESS OF OWNER	Surve						
17. COMPLETED WORK WITHIN LAS PROJECT NAME, TYPE AND LOCATION							

18. COMPLETED WORK WITHIN LAST 5 YEARS ON OF WORK FOR WHICH YOUR FIRM WAS RESPO		WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE PHASE INSIBLE)	ANT TO OTH	IER FIRMS (INDIC	SATE PHASE
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
Toms Mountain Wastewater Collection system extension project	Stafford Consulting P. O. Box 5849 Princeton, WV 24740		2005		Surveying
Layout weight room at Marshall University	Stafford Consulting P. O. Box 5849 Princeton, WV 24740		2005		Surveying
Logan County PSD, Phase II	Stafford Consulting P. O. Box 5849 Princeton, WV 24740		2006		Surveying
Logan County PSD, North Fork Water distribution System extension	Stafford Consulting P. O. Box 5849 Princeton, WV 24740		2007		Surveying
 19. Use this space to provide any additional informat West Virginia Abandoned Mine Lands Program. True Line, Inc. has been providing surveying, mapp counties since 1985. The applications include overburd plans. 	any additional information or der d Mine Lands Program. roviding surveying, mapping, site c cations include overburden balanc	19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Abandoned Mine Lands Program. True Line, Inc. has been providing surveying, mapping, site design and permit surface coal mining applications for operations in McDowell and Wyoming counties since 1985. The applications include overburden balance and storage areas, ditch and culvert designs, sediment structure designs and final reclamation plans.	1's qualificat ations for opens, sediment s	ions to perform werations in McDovertructure designs a	ork for the vell and Wyoming nd final reclamation
True Line, Inc. has also provided pre-surveying am AML projects in southern West Virginia for over ten y	ovided pre-surveying and post sur st Virginia for over ten years.	True Line, Inc. has also provided pre-surveying and post surveying services and mapping for several companies that have been awarded contracts to complete L projects in southern West Virginia for over ten years.	panies that h	iave been awarded	contracts to complete
20. The foregoing is a statement of facts. Signature: Dwight Gillespie	atement of facts. g All (Allespie Dwight Gillespie	Title: President	1	Date: October 29,	29, 2008

)	MEST V	WEST VIRGINIA DEPARTMENT AMI CONSULTANT CONFIDE	ARIMENI JE ENVIKONMENIAL PROIECTION CONFIDENTIAL OUALIFICATION OUESTION	L PROTECTION OUES	INAIRE	Attachment "B"
PROJECT NAME Maybeury (Oakley) Landslide RFO No. DEP14439			YEAR) -29-08	A	0394550	NF .
1. FIRM NAME H. C. Nutting A Terracon Company	any	2. HOME OFFICE BUSINESS 611 Lunken Park Drive, C 45226	SINESS ADDRESS rive, Cincinnati, OH	3. FORMER	FIRM NAME	
4. HOME OFFICE TELEPHONE 513.321.5816	5. ESTABLISHED	(YEAR)	6. TYPE OWNERSHIP Individual X Corporation Partnership Joint-Ventu	Corporation Joint-Venture	6a. WV REGISTERED DBE (Dis Business Enterprise) YES X NO	(Disadvantaged
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPE 611 Lunken Park Drive, Cincinnati, OH 45226 912 Morris Street, Charleston, WV 25301 / 30 790 Morrison Road, Columbus, OH 43230 / 614. 349 Walnut Street, Suite 8, Lawrenceburg, IN 470-B Conway Court, Suite B-8, Lexington, KY 1414 E Schaaf Rd, Brooklyn Heights, OH 44131	ADDRESS// nati, OH 41 , WV 25301 OH 43230 / awrenceburg, Lexington	LEPHONE/ 26 / 513. 304.344. 14.863.31 IN 47025 KY 40511	NO. Sch / 11 / 43 Frec Jess	AML DESIGN PERSONNEL Iroeder / 158 Terdmann / 7 R. Schroeder / 11	VEL EACH OFFICE	
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM R. Jackson Scott, James P. Cahill, Jess A. Schroeder George C. Webb, Ronald J. Ebelhar, Swaminathan Srinivasan, James Wang, Terry Stransky, Steve Rucker Jason Sander, Jessica Lech, Ron Lech	S OR MEMBERS hill, Jess A. Ihar, Swamina Stransky, Ston Lech		NAME, TITLE, &	TELEPHONE NUMBER	ER - OTHER PRINCIPALS	
9. PERSONNEL BY DISCIPLINE						
61 ADMINISTRATIVE ARCHITECTS BIOLOGIST CADD OPERATORS CHEMICAL ENGINEERS CIVIL ENGINEERS CIVIL ENGINEERS CONSTRUCTION INSPECTORS DESIGNERS C. DRAFTSMEN	- ECOLOGISTS - ECONOMISTS - ELECTRICAL EN B ENVIRONMENTA 1 ESTIMATORS B GEOLOGISTS - HISTORIANS 1 HYDROLOGISTS	ECOLOGISTS ECONOMISTS ELECTRICAL ENGINEERS ENVIRONMENTALISTS ESTIMATORS GEOLOGISTS HISTORIANS HYDROLOGISTS	- LANDSCAPE ARCHITECTS - MECHANICAL ENGINEERS - MINING ENGINEERS - PHOTOGRAMMETRISTS - PLANNERS: URBAN/REGIONAL SANITARY ENGINEERS - SPECIFICATION WRITERS	ICTS IERS SECTONAL SECTONAL SECTONAL SECTONAL SECTONAL SECTONAL	STRUCTURAL ENGINEERS SURVEYORS TRAFFIC ENGINEERS OTHER 279 TOTAL PERSONNELL	
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS *RPEs other than Civil and Mining must provide supposupervise and perform this type of work.	STERED PROFESSION and Mining must) his type of work	FESSIONAL ENGINEER must provide supp f work.	IN PRIMARY OFFICE: rting documentation	2 that qualifies	ies them to	
10. HAS THIS JOINT-VENTURE WOR	WORKED TOGETHER	BEFORE?	YES [] NO			
	,					

11. OUTSIDE KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO Questionnaire".		bE USED. Attach "AML Consultant Confidential Qualizication
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
None Anticipated		Yes
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
יייייייייייייייייייייייייייייייייייייי	SDECTAT TV.	No WORKED WITH BEFORE
NAME AND ADDRESS:		Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
delou e monto		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
	•	Yes
		No .
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No

12. A:	Is your firm experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?
repair pro	scription and Number of Pro y of them associated with A ence Insurance Underwriting
mitigate	the effects of future mine subsidence in Kentucky, Ohio and West Virginia.
m	Is your firm experienced in Soil Analysis?
×	YES Description and Number of Projects: Over 80 years experience on thousands of projects in Geotechnical, Environmental and Materials Engineering.
Ċ	Is your firm experienced in hydrology and hydraulics?
×	YES Description and Number of Projects: Commercial, industrial, and residential storm water drainage projects for landfill development and closure, dam/lake spillway structures, site development drainage design, erosion and sediment control, stormwater pollution prevention plans. Dam spillway
	NO SCHOCCULES.
D.	Does your firm produce its own Aerial Photography and Develop Contour Mapping?
	YES Description and Number of Projects:
×	
T	Is your firm experienced in domestic waterline design? (Include any experience your firm has in evaluation of aquifer degradation as a result of mining.)
1887 (1888 <u>) 1</u> 888 (1888)	YES Description and Number of Projects:
×	ON
Ħ	Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?
	YES Description and Number of Projects:
*	NO

13. P. NAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIA data but keep to essentials)	CIPALS AND ASSOCIA RESPONSIBLE	ISIBLE FOR AML PROJECT DESIGN (Furnish	(Furnish com :e
ITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	Ĺ
Bruce, Rome E.	YEARS OF AML DESIGN EXPERIENCE: 0	YEARS OF AML RELATED DESIGN EXPERIENCE: 30	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0
Brief Explanation of Responsibilities Responsibilities include conceptual	l and final design, report	and drawing preparation,	development of
construction specifications, constr	construction bidding and contract	act documents, coordination	and management of
construction observation, volume and	nd cost estimate calculations,	ions, hydrologic analysis,	and hydraulic
analysis of drainage channels, spil	spillways, and detention ponds	is.	
EDUCATION (Degree, Year, Specialization) Bachelor of Science, CEE, University A.A.S., Degree (proper), Discipline,	of Wisconsin-Madison Year, School Civil,	1979 Gateway Technical Institute,	Racine, WI 1974
MSCE/1976/Civil Engineering	The state of the s		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS American Society of Civil Engineers	SNC	REGISTRATION (Type, Year, State Professional Engineer in Ind Michigan, Ohio, and Wisconsin	r, State) in Indiana, Kentucky, sconsin
HISTORY STATEMENT OF keep to essentials)	PRINCIPALS AND ASSOCIATES RESPON	RESPONSIBLE FOR AML PROJECT DESIGN	(Furnish complete
Fir		YEARS OF EXPERIENCE	: :
Erdmann, Fred W.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 40	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0
Brief Explanation of Responsibilities			
Senior Consultant and Branch Manager	of the Lawrenceburg,	Indiana Office	***************************************
West Virginia Experience in Mining Engineering, Management.	Geotechnical	Engineering, Groundwater Engineering,	ing, and Waste
EDUCATION (Degree, Year, Specialization) B.S., 1967, Geological Engineering M.S., 1971, Geological Engineering	(uc		
istion of Engineer	REGISTE 1982, 1990, 1990,	ATION (Type, Year, State) P.E., 1982, W Ohio/P.E., 1989, Florida/P.E., 1982, Pennsylvania/P.E., 1990, Indiana/P.G.	2, West Virginia/P.E., 82, Kentucky/P.E., P.G., 1993,Kentucky/

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AML DESIGN SERVICES
AutoCAD 2007 / Land Development Desktop
Microsoft 2003 Office Suite - (Word, Excel, Access, PowerPoint, Publisher)
Slope Stability Analyses (STABL, ReSLOPE, etc.)
SHAKE2000 - Seismic Site Response Analyses
PLAXIS - Finite Element Analysis Software
AutoCAD Workstations (4)
Desktop Computers (100+)
Laptop Computers (200+)
Laser Printers (50)
Plotters - HP750C (3) OCE TDS450 Plotter - Large Format Flat Bed Scanner (1 ea.)

,	PERCENT COMPLETE					
RECORD	ESTIMATED CONSTRUCTION COST			-		TOTAL ESTIMATED CONSTRUCTION COSTS: \$
DESIGNATED ENGINEER OF	NATURE OF YOUR FIRM'S RESPONSIBILITY	•				TOTAL ESTIMA
N WHICH YOUR FIRM IS THE	NAME AND ADDRESS OF OWNER					
15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD	PROJECT NAME, TYPE AND LOCATION					TOTAL NUMBER OF PROJECTS:

	TRUCTION COST	YOUR FIRMS RESPONSIBILITY				A SIPAN N SASA N
NA STATEMENT OF THE STA	ESTIMATED CONSTRUCTION COST	ENTIRE PROJECT			The state of the s	
SUB-CONSULTANT TO OTHERS	ESTIMATED COMPLETION DATE					
Ø	NAME AND ADDRESS OF OWNER					
CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS	NATURE OF FIRMS RESPONSIBILITY					
16. CURRENT ACTIVITIE	PROJECT NAME, TYPE AND LOCATION					

THIN	LAST 5 YEARS ON WHICH YOUR FIRM WAS NAME AND ADDRESS	S THE DESIGNATED ENGINEER OF RECORD ESTIMATED CONSTRUCTION COST	YEAR	rruc
AND LOCATION Mayo Mine Emergency Slope Failure Field Repair, Martin, KY	OF OWNER U.S. Army Corps of Engineers, Huntington District	\$16,000	and the state of t	Yes
Proposed New Dormitories, Mine Subsidence Assessment and Grouting Specifications	Hocking College, Nelsonville, Ohio	Unknown	and the state of t	(Ask Kevin Ernst)
Mine Grouting Specifications for the Proposed Marion County 911 Building, Fairmont, WV	WVDOH C/O Burgess & Niple 4424 Emerson Avenue Parkersburg, West Virginia 26104	Unknown		No
Ventilation Tunnel Remediation and Sealing, Marathon Fuel Terminal, Covington, KY	Marathon Petroleum, LLC Finley, Ohio	Unknown		Yes
Investigation of Acid Seeps at a Former AML site, Revegetation Study, Wellston, Ohio	(Ask Bruce)	Unknown		Yes
Mine Subsidence Assessment, Melody Mountain Development Project, Ashland, KY	R.G. Properties 8163 Old Yankee Road Suite B Dayton, Ohio 45458	Unknown		83 W S
Peoples Bank of Mullens, Mine Subsidence Assessment and Preparation of Grouting Specifications	Peoples Bank of Mullens P.O. Box 817 Mullens, WV 25882	Unknown	2007	O _N

18. COMPLETED WORK WIT OF WORK FOR WHICE	OMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)	CH YOUR FIRM HAS BEEN A SUB-CONSULTANT BLE)	2	OTHER FIRMS	(INDICATE PHASE
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
Danhart AML Project, Martins Ferry, Ohio				Yes	R.D. Zande & Associates
Mine Subsidence Assessment, Mountain View High School Addition, Welch, WV				X es	ZMM, Inc.
Highwall Stability U Assessment and Rock Fall Protection Design, (Somewhere),	U.S. Bureau of Prisons (Ask Webb)			Yes	(Ask Webb)
Stabilization of Mine Spoil by Dynamic Compaction I for Substations and Transmission Towers.	GenPower Longview Power Project Maidville, WV and Dunkard, PA			Not Yet	Beta Engineering
19. Use this space to gualifications to p	provide any additional i perform work for the Wes	information or description of resist Virginia Abandoned Mine Lands	resources sids Program.	supporting your	firm's
20. The foregoing is a	statement of facts.				
Signature:	Title:	Operations Manager/Appalachian R	Region	Date: October	Der 29, 2008
		6			

AML and RELATED PROJECT EXPERIENCE MAI	LATED	PROJE	CTE	XPER	CEN	CE M	ATR	TRIX														
						PROJ	ECT	EXPE	SIENC	E RE	PROJECT EXPERIENCE REQUIREMENTS	MEN.	TS				RIMAR)	⟨STAFI * M=Ma	r PARTI magemen	RY STAFF PARTICIPATION/CAI	PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Professional	CHY
PROJECT	Exp. Basis C=Corp P=Personal *	Additional Info Provided in Section(s) **	Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure Hydrologic/Hydraulic	Hydrologic/Hydraulic Design/Evaluation	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	Jack D. Stafford, P.E.	C. Desn Upton, P.E.	Edward L. Shutt, P.E.	Kenneth R. Crowe, P.E.	James K. Bolton, P.E.	
Williamson Nursing Home Slide	O	19		×	×					×		×				×	M			£	Ωı	
Mason County Bond Forfeiture	U	19	×	×	×	×				×	×		×	×			×			a,		
Weyanoke Portals	O	19		×	×					×							Σ		Ъ	Ъ		
Sarah Ann Drainage	U	19	×	×	×					×				×			፮ ;	-	۲ (<u>م</u> د	-	
Heizer Creek "A"	IJ	19		×	×	×			-	×	×			;	+	+	≅ ;		2. 6	7 6	+	
Canebrake Complex	O	19		×	×		+	×		×				×		×	Σ		۱ اید	۱ اد		
Millersville Road Refuse	U	19	×	×	 ×		.			×							X		ď	e.		
Milburn Red Dog	C	19						X		×						×	Z	1	പ	e i	+	
Charleston Portals		19		×	×					×							Z		ρ.,	ᆈ		
Mill Branch Refuse	D	19								×					×	×	X.			2 4		
Ameagle Complex	C	19							×	×				×			Σ		A	4		
Cabin Branch Refuse	C	19						···		×	,					×	M		ъ	e,		
Shoemaker I andslide	C	61								×						×	M			P.		
Birds Creek Refuse	C	19	×	×	×	***************************************	_			×							ĭ			Ы		
Kermit (Hatcher)	U	19							··············	×			,				×			P.		
Maplewood Study	C	19									X						Z			d		
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Danese Water Treatment Plant	Ü	19								×			×				M		ď		a,	
Blue Pennant Complex	C	19		×	×		×			×				×		×	M		ď	ď		
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Logan County PSD	C	61										×	×			+		ᆔ			Z	
Prairie Hill Mine AEC, Inc.	£ζ								.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								×					
2000				-	<u> </u>		<u> </u>										***************************************					Water
* I ist whather	List whether project experience is corporate or personal based or both.	erience is co	l orporate	or pers	onal ba	sed or be	oth.	-	-	_	4			1			I					

List whether project experience is corporate or personal based or both.
** Use this area to provide specific sections or pages if needed for reference.
*** List Primary Design personnel and their functional capacity for the projects listed.

ATTACHMENT 19A ABANDONED MINE LANDS EXPERIENCE

ABANDONED MINE LANDS EXPERIENCE

Stafford Consultants has performed Engineering and Design for twenty (20) projects for the West Virginia Department of Environmental Protection – Division of Abandoned Mine Lands and Reclamation. Each design was delivered on schedule and within budget. These projects are as follows:

- 1) Williamson Nursing Home Slide (Mingo County): This project consisted of corrections to a major slide that was endangering the building and parking lot at the Williamson Nursing Home. Stafford provided subsurface investigations, preparation of contract plans and specifications, and construction inspection. Final design fee was 76 percent of the approved design fee.
- 2) Mason County Bond Forfeiture: This project involved several areas of unreclaimed highwalls, spoil piles, and mine portals, and is unique because a large pond was relocated and acid drainage is being treated by the use of a biological wetland, planted with specialized plants. This project is extensive in nature and size. Final design fee was 83 percent of the approved design fee.
- 3) Weyanoke Portals (Mercer County): This project consisted of sealing existing portals and providing for draining which was being used for a water supply. This project involved both dry and wet seals, and was constructed within budget and on time. Final design fee was 40 percent of the approved design fee.
- 4) Sarah Ann Drainage (Logan County): This project consisted of elimination of several highwalls, a refuse pile, entries and an abandoned shaft. The project is complete and is an excellent example of Abandoned Mine Reclamation at its best. This project utilized pneumatic backstowing in its construction. Final design fee was 88 percent of the approved design fee.
- 5) Heizer Creek "A" (Putnam County): This project consisted of elimination of four large entries that were discharging acid mine water. In addition to these, more than 15 other openings were eliminated. This project involved wet and dry seals, grading and major water problems. The project is complete and looks very good. Final design fee was 67 percent of the approved design fee.
- 6) Canebrake Complex (McDowell County): This project includes several large refuse piles (one of which is burning) placed on very steep mountainsides, and the removal of abandoned mining structures. Also, this work is adjacent to a stream whose banks and water must be protected. Final design fee was 58 percent of the approved design fee.
- 7) Millersville Road Refuse (Upshur County): This project consisted of elimination of refuse piles, highwalls, and spoil piles located in a hollow directly above a populated area. It also included the consideration that a mine directly below the piles was full of water. Although it proved that mine water was not a serious problem, provisions were made in the design to deal with the problem if it had arisen. That project is complete and is very attractive. The

- final design fee was 86 percent of the approved design fee. We have included this projects' Plans and Specifications as an example of our work.
- 8) Milburn Red Dog Refuse Pile (Fayette County): This refuse pile lies along the side of the WV Turnpike and has been burning and slipping for several years. The final design fee was 39 percent of the approved design fee.
- 9) Charleston Portals (Kanawha County): This project consists of the elimination of some fifteen mine openings located above a populated area. The work consists of wet and dry seals and grading. The final design fee was 83 percent of the approved design fee.
- 10) Mill Branch Refuse Piles (Wyoming County): This project consists of the elimination of two refuse piles placed on a steep mountainside above Bud, West Virginia. This was a straightforward grading, drainage and revegetation project, but required extreme care because of the steepness of the terrain. The final design fee was 81 percent of the approved design fee.
- 11) Ameagle Complex (Raleigh County): This project consists of the removal of a large coal preparation plant and associated facilities and several refuse piles. This would be a relatively straightforward demolition project. Except that the area is very cramped and the plant was sided with asbestos panels. The final design fee was 85 percent of the approved design fee.
- 12) Cabin Branch Refuse Piles (Logan County): This project consists of the grading, drainage, relocation and revegetation of three refuse piles. Extreme care was required because the piles were located on both sides of a road serving a community, gas compressor station and mining operation. Also, a stream runs along the piles and was protected. The final design fee was 66 percent of the approved design fee.
- 13) Shoemaker Landslide (Upshur County): This project included the construction of a soldier pile retaining wall and regrading of a previously reclaimed fill area which was slipping. The final design fee was 66 percent of the approved design fee.
- 14) Birds Creek Refuse (Preston County): Two refuse piles and 1200 linear feet of highwall were reclaimed in this project. Final design fee was 85 percent of the approved design fee.
- 15) **Kermit (Hatcher) Drainage** (Mingo County): This was not your normal AML project. An existing structure was located over a draining mine slope. The work consisted of installing a drainage pipe from the slope, through the building, and tying into the local storm sewer system. Some interior remodeling was also performed. Final design fee was 59 percent of the approved design fee.
- 16) Maplewood (Route 41) Waterline Feasibility Study (Fayette County): This study was conducted to determine if pre-1977 mining activity contributed to the degradation of the water supply for the Danese Public Service District. Final study fee was 64 percent of the approved study fee.

- 17) Mod-Mahan Road Waterline Feasibility Study (Marion County): This study was conducted to determine if pre-1977 mining activity contributed to the water quality problems of the wells used for water supply of the local residents. Final study fee was 64 percent of the approved study fee.
- 18) City of Summersville (Route 39) Waterline Feasibility Study (Nicholas County): This preliminary investigation was performed to determine if pre-1977 mining activities affected the local water supply wells. This project was completed using only 54 percent of the approved fee.
- 19) Danese Water Treatment Plant Modifications (Fayette County): As a result of the findings of project 16 (above) a new 350-gpm plant was designed. The old plant was in very poor shape and had insufficient capacity to meet the system demands. This project is complete and we used only 50 percent of the approval fee.
- 20) Blue Pennant Complex (Boone County): This reclamation project consists of the regrading of three refuse sites, one of which was burning. Several old conveyors and structures will also be demolished. Our effort on this project consumed only 81 percent of the approved fee.
- 21) Keystone (US Route 52) Feasibility Study (McDowell County): This preliminary investigation was performed to determine if pre-1977 mining activities affected the supply wells for the Town of Keystone's municipal water system. This project was completed using only 25 percent of the approved fee. (The fee included the Phase 2 study as well which was not required due to results of Phase 1 Study).

Our Design Fee Experience has been exceptional with no overruns. The maximum Design Fee used to date is 88% of the approved fee. All projects done to date have been completed on schedule. See following chart for performance on past projects.

In addition to these projects, we have provided design, construction administration and/or resident project representation for AML funded water projects for New Haven Public Service District, Logan County Public Service District, and McDowell County Public Service District.

STAFFORD CONSULTANTS, INC.

ABANDONED MINE LANDS PROJECTS

DESIGN FEE HISTORY 1987-2008

WORK DIRECTIVE	PROJECT NAME	APPROVED DESIGN FEE	FINAL DESIGN COST	PERCENT OF APPROVED DESIGN FEE BILLED TO AML
. 1	Williamson Nursing Home (Mingo)	\$48,476	\$36,951	76
2	Weynoke Portals (Mercer)	15,260	6,165	40
3	Heizer Creek Portals (Putnam)	44,508	29,875	67
4	Mason County Bond Forfeiture (Mason)	101,892	84,656	83
5	· Sarah Ann (Logan)	22,578	19,959	88
6	Canebrake Complex (McDowell)	108,196	63,006	· 58
7	Millersvile Road Refuse (Upshur)	35,828	30,891	86
8	Milburn Red Dog (Fayette)	31,485	12,149	39
9	Charleston Portals (Kanawha)	17,576	14,550	83
10	Mill Branch Refuse (Wyoming)	35,335	28,716	81
11	Ameagle Complex (Raleigh)	28,792	24,519	85
12	Cabin Branch Refuse (Logan)	26,495	17,636	66
13	Shoemaker Landslide (Upshur)	47,284	28,344	60
14	Birds Creek Refuse (Preston)	31,988	27,326	85
15	Kermit (Hatcher) Drainage (Mingo)	23,998	14,106	59
16	Maplewood (Route 41) Study (Fayette)	8,668	5,590	64
17	Mod-Mahan Road Study (Marion)	8,213	5,227	64
18	Summersville (Rt. 39) Study (Nicholas)	52,730	28,315	54
. 19	Danese Treatment Plant (Fayette)	87,672	43,550	50
20	Blue Pennant Complex (Boone)	46,412	37,399	81
21	Keystone (US Route 52) Study (McDowell)	45,767	11,377	25

ATTACHMENT 19B PROPOSED PROJECT MANAGEMENT PLAN

PROPOSED PROJECT MANAGEMENT PLAN

Project Management

An organizational chart for this AML project is included to graphically depict Stafford Consultants' plans for management and reporting.

Because we take this work very seriously, we have placed Mr. C. Dean Upton, P.E., our President, in the direct line as principal in charge. This does not mean that the heavy cost of the firm's president will be born on a full time basis by the State of West Virginia; what this means is that no work will be submitted without review by Mr. Upton. Also, cost and schedules will be reviewed by Mr. Upton. Because of his strong qualifications in Quality Assurance/Constructability Review, Mr. Edward L. Shutt, P.E. will review all aspects of the project.

Mr. Kenneth R. Crowe, P.E. will manage the project on a day-to-day basis and have direct professional responsibility. Final approval of the project will be made only after review by both Mr. Shutt and Mr. Upton.

Experience has proven that not all projects can be controlled in the same manner. As a result of this experience, we employ several management systems such as CPM, GANTT, Bar Chart, and simple coordinate charts. Our personnel are trained and experienced in all of these methods, and we will use the method that is most practical and acceptable to the State.

A. Project Team

We have established a project team for this AML project which reflects the required technical expertise and available management time. Enclosed is a flow chart of our proposed project team.

We have also enclosed a draft work flow chart for completion of the project.

Once a scope of work and fees are agreed upon, we will prepare a Gantt Project Summary Report which identifies each activity (tasks) to be performed to achieve the project's objectives. This will identify who is responsible for the specific activity, starting and ending dates, manhours/expenses estimated (used), unit cost and total costs for each activity.

This Project Summary Report will be updated monthly to monitor task completion versus schedule and costs.

The information input for the Project Summary Chart will generate a Project Schedule Chart which will provide a bar chart over time for each activity to indicate actual or planned schedule, milestone, and the time increments.

We have monthly staff meetings to review each project. We also recommend client project meetings at least monthly to review the status and issues associated with each project.

Should the work of subconsultants be required, those we will utilize we have worked with as a team for at least ten (10) years. This generates the ability to promptly respond to our client's needs.

We are experienced in management as indicated by our record of many successful construction projects. We are prepared to provide a Gantt report in as much detail as the Department of Environmental Protection may require. These reports will consist of reports for construction progress, anticipated completion dates and milestones, cost control and a summary of problem areas with recommendations for solutions.

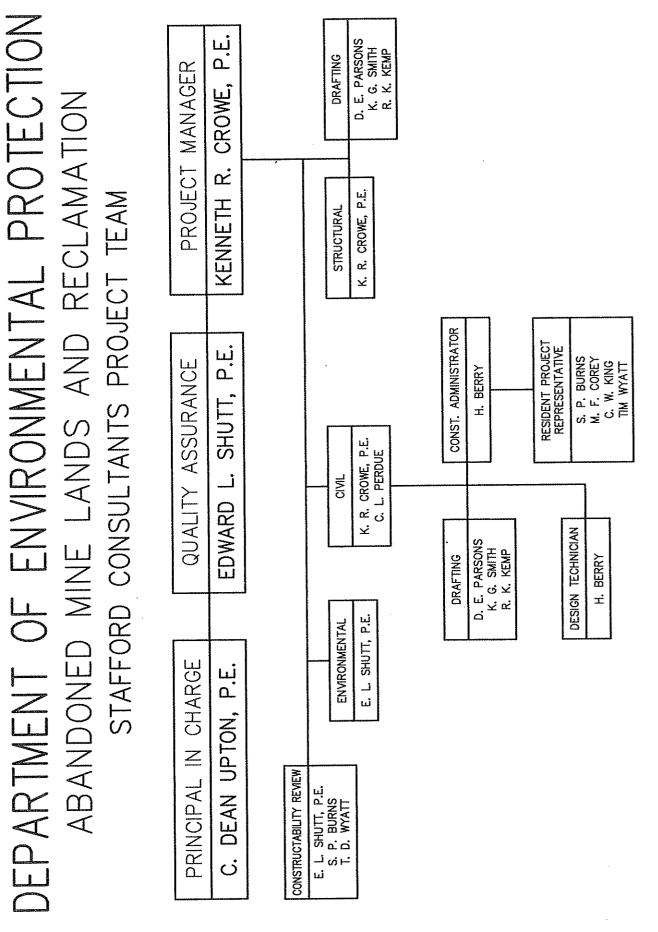
B. Location of Facilities

Stafford Consultants, Incorporated is located at 1105 Mercer Street, (P.O. Box 5849), Princeton, West Virginia. Our office is within easy driving distance to this project.

All work associated with AML projects will be performed in our office in Princeton, West Virginia. Work subcontracted to consultants will be performed in the following locations:

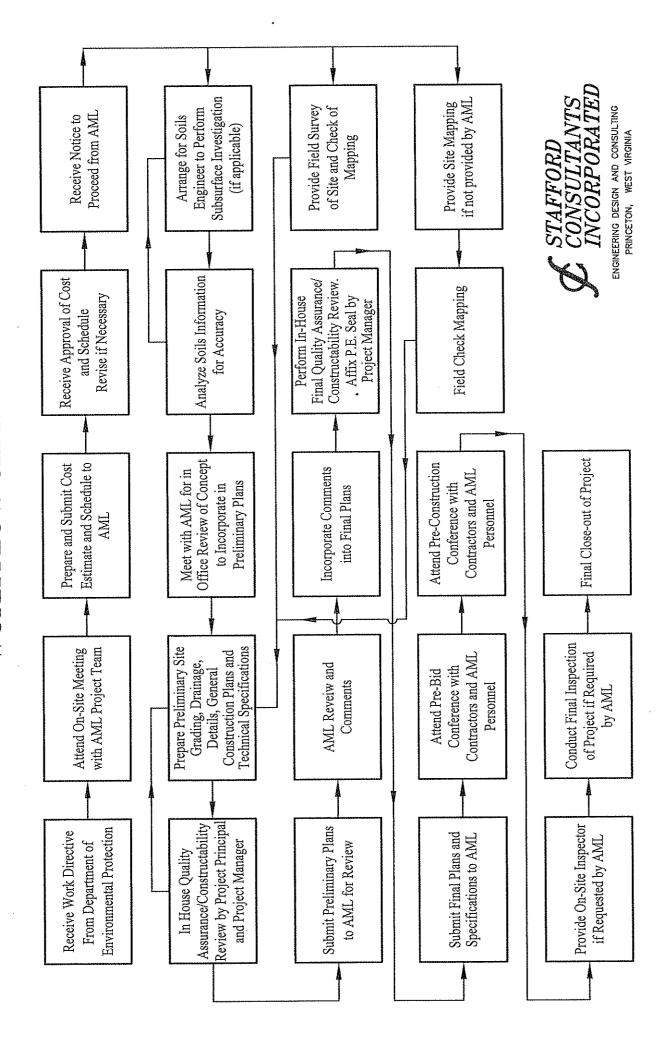
- 1. True Line, Inc. Thorpe, West Virginia
- 2. H. C. Nutting Company Charleston, West Virginia

DEPARTMENT OF ENVIRONMENTAL PROTECTION ABANDONED MINE LANDS AND RECLAMATION STAFFORD CONSULTANTS PROJECT TEAM



STAFFORD CONSULTANTS INCORPORATED

WORK FLOW CHART



ATTACHMENT 19C PROJECT QUALITY CONTROL

PROJECT QUALITY CONTROL

General:

The following are general statements which are the underpinning of our quality control program. From planning to project completion, the emphasis must be on quality control.

I. PLANNING

Planning is the beginning. Quality in work is not an accident. The end result of such a program is a plan which guides the firm toward the delivery of quality professional services and a profitable operation.

II. ORGANIZING

Organize to determine, specify and structure tasks which will accomplish the desired objective — quality services. The clear assignment of responsibility and assumption of authority by those in each position in the firm, is the beginning of the implementation of the quality control program. The establishment of performance standards, policies and procedures by which tasks are to be performed, must be stated with clarity.

III. STAFFING

The careful selection and training of personnel to perform the specified tasks is essential.

IV. DIRECTING

Directing is the responsibility of management – firm and project – to coordinate performance of each and every task to make the quality control programs function as planned, organized and staffed.

V. CONTROLLING

Controlling is a top management responsibility. It is monitoring and measuring to assure that the "actual" results are consistent with the "planned" results. A critical element is the implementation of immediate corrective action when results are not in compliance with the planned predetermined program objectives.

VI. COORDINATION

The success of Stafford's quality control program depends on coordination among parties involved or individual projects. Professional associates — in-house or outside consultants — must be included in the decision making process during design and construction. Good communication and well-structured coordination are essentials to a successful project.

VII. RECORDATION AND RETENTION

All discussions with all parties – clients, outside consultants, contractors – should be recorded in **objective** detail and those records retained in the project file.

Summary:

In summary, a quality control program is effective only if management is committed to it. Management is not only the principals but also design professionals at all levels with the firm. Achievement of quality control is first and last a management attitude transmitted to all within the firm.

Several elements are required for delivery of quality professional services. Following are the elements normally utilized by Stafford Consultants, Incorporated.

SECTION A

PRE-PROPOSAL SCOPE EVALUATION

I. ANALYSIS OF PROJECT CHARACTERISTIC

- A. Pre-Proposal scope meeting with client.
- B. Pre-Proposal site meeting to review clients' objectives and goals.
- C. Verify ability to perform including:
 - 1. Licensed Professionals
 - 2. Project Team Personnel
 - a. knowledge
 - b. experience
 - c. current workload

SECTION B

I. PROJECT PRE-SCHEDULING

- A. Outline of estimated work effort of each engineering discipline and prepare Gantt project summary charts.
 - 1. Prime professional will not commit to schedule or budget limitations prior to coordination with consultants.
- B. Analyze Project
 - 1. List basic information required to perform each phase of the project.
 - 2. Designate priority of services by discipline.

SECTION C

I. CONTRACT NEGOTIATIONS / EXECUTION

A. Prepare clearly written scope of work for clients approval.

- B. Prepare a clearly written Project Schedule with project milestones including client reviews.
- C. Prepare an estimate of all fees anticipated and costs for any additional services.
- D. Use an accepted engineering agreement.

SECTION D

PROJECT MANAGER AND DESIGN TEAM SYSTEM

General:

Because the performance of most Engineering designs require the efforts of more than one individual and since a number of people will be working on a project simultaneously over an extended period of time, it is usually advisable to develop a team approach for accomplishing the work, with a project manager as team leader. The team approach offers a degree of continuity, awareness of the status of a project and a formal mechanism for exchange of information amount team members, whether they be in-house or outside consultants.

I. MANAGEMENT CONSIDERATIONS

- A. A Project Manager and a representative of each applicable design discipline comprise the design team.
- B. It is likely that an individual may simultaneously perform in more than one function on more than one design team.
- C. It is the responsibility of management to determine that proper assignments have been made to accomplish each required activity for each project.

II. TEAM SELECTION

- A. Identify key services to be provided on a project and select team members who are experienced and qualified in those particular areas.
- B. The average experience on a project team is a valuable measure of the overall team ability.
 - 1. Compute "Experience Quotient"
 - E.Q. <u>Total Years of Experience (applicable to project)</u>
 Number of Team Members
 - 2. As a general rule, if the E.Q. is less than ten (10), consideration should be given to provide closer supervision and/or checking of that project.
- C. Experienced personnel should be assigned as lead personnel of large projects.

D. Inexperienced personnel should be carefully assigned and work only under supervision of experienced personnel.

III. TEAM COMPOSITION

The following listed positions are normally designated for a large project:

- A. Project Manager
- B. Project Engineer
- C. Design Engineer
- D. Technicians
- E. Draftsmen
- F. Construction Administrator
- G. Estimator/Specification Writer/Cost Estimator
- H. Resident Project Representative

A. Project Manager (PM)

1. He is responsible to the client and the firm for the successful execution of the project. He has complete authority and responsibility for the project throughout the duration of the contract. The Project Manager may be an officer of the firm or assigned by the officers of the firm.

2. The Project Manager:

- a. Must be capable and experienced person with authority to speak for the firm in dealing with the client and to direct and expedite the work.
- b. Should be involved early in the negotiations and the establishment of the contracts with the owner.
- c. Should participate in establishing the total time requirements for project completion.
- d. Must be fully aware of the client's objective and must satisfy the client's goals.
- e. Reports to management.
- f. Must analyze the project for its scope and organize the work on the project.
- g. Must determine the skills required.

- h. Participate in the selection of the project engineer and design team.
- i. Must schedule the project through the office.
- j. Should be responsible for recommending outside consultants or additional help.
- k. Responsible for coordinating and scheduling outside consultants.
- 1. Monitors the progress of the project to determine percent complete versus money spent, versus design budget.
- m. Is responsible for completing the project on time.
- n. Is responsible for adhering to project budget.
- o. Receives all information coming into the office on a project and disseminates it to in-house design team and outside consultants.

B. Team Members

- 1. The Project Engineer has the responsibility of carrying out the design work on a project for a specific discipline.
- 2. The Project Engineer:
 - a. Is responsible for quality control for the design function.
 - b. Is responsible to the Project Manager.
 - c. Establishes the design parameters together with the Project Manager.
 - d. Provides guidance to other members of that design discipline.
 - e. Must know the capabilities of the design team in order to obtain specialized help when needed.
 - f. Is responsible for the accuracy of each segment of the work as it is completed.
 - g. Is responsible for the final check of work product.
 - h. Assures that the office design policies, procedures, and standards are followed.
 - i. Is responsible for adherence to applicable codes.
 - j. Is responsible for the preparation of the technical specifications.

- k. Will be responsible for processing of shop drawings.
- 1. Will analyze and respond to alternate designs.
- m. Will respond to questions during construction and will make field visits.
- n. Is responsible for keeping the work on schedule.
- o. Establishes the manpower requirements.
- p. Shall be registered engineer.
- q. Should seal the plans for the team or be willing to do so.
- r. Should remain with the project throughout its time in the office.
- s. Is responsible for all drafting.
- 3. The Project Engineer is the vital key to implementation of the quality control program.
- 4. Other team members should be identified and their responsibilities defined.

SECTION E

WRITTEN PROJECT PROGRAM

General:

The written project program follows immediately after the signing of the Owner/Engineering Agreement. A Written Project Program should be prepared for every job regardless of its size. This document will form the basis for all design work performed and should be approved by both the engineer and client.

A definitive outline of the scope of the project should be prepared before starting any work. This outline should be confirmed in writing by the client. It is absolutely essential that both the client and the engineer have a mutual understanding of the project requirements.

The responsibility of developing a written project program rests with the Project Manager. The written program must establish the design parameters for all Engineering disciplines and reflect the client's budgetary limitations.

I. PROJECT PROGRAM

The written Project Program should contain most, if not all, of the following:

A. Client Aims and Concepts

- 1. Define the function of the project.
- 2. Provide characteristics of the equipment used.
- 3. Indicate anticipated future expansion.
- 4. Set out other items resolved with the owner that would affect the project.

B. Cost Limitations

- 1. Total project limitations.
- 2. Cost limitations for the various segments of the project should be developed.

C. Space Requirements

- 1. Identify each individual function with its associated space requirements.
- 2. Designate all functional groupings or separations.
- 3. Describe each space giving occupancy load, ceiling height or head room, access points, crane loads, lighting and electrical requirements, etc.

D. Functional Description and Requirements

- 1. List construction materials and finishes.
- 2. Describe all site improvements.
- 3. Describe all structural, mechanical and electrical requirements.

E. Site Data

- 1. Boundary and topographical survey.
- 2. Soils Testing.
- 3. Location and size of existing utilities.
- 4. Zoning restrictions.
- 5. Access and traffic data.
- 6. Investigate history of drainage features.

F. Master Plan and Expansion

1. Include a drawing showing the location of the proposed facility on the site and show all planned future improvements and possibilities for expansion if the information is available.

G. Code Restrictions – Regulatory Permit Requirements

- 1. List all applicable codes.
- 2. List all restrictive code requirements which will affect the project.

H. Time Restriction

- 1. Establish a project time schedule listing dates for:
 - a. Schematic design Phase
 - b. Design Development Phase
 - c. Contract Documents Phase
 - d. Bid Period
 - e. Construction Period
 - f. Project Completion
- 2. List lead time required for major items requiring long delivery periods.
- 3. Consider potential time delays due to reviewing authorities.

I. Bidding and Contract Procedures

- 1. Determine contractor selection procedure (negotiated contract, competitive bid, and direct selection).
- 2. Determine client imposed alternates or requirements.
- 3. Determine A/E responsibilities at contract award.

II. ADMINISTRATION OF PROJECT PROGRAM

A. Distribution of Program

- 1. Establish a written distribution list with the name and position of each team member, including outside consultants.
- 2. Include the client or client representative on the distribution list.

B. Changes or Revisions

- 1. Any change which deviates from the formal written Project Program should be issued and distributed as a numbered and dated addendum to the program.
- 2. If changes are excessive, the entire program should be reviewed.
- 3. Clearly indicate to client the impact of requested changes.

C. Program Coordination

- 1. Responsibility for strict adherence to the program must be acknowledged at all levels including outside consultants.
- 2. Each discipline, in-house or outside consultant, must be responsible for its own activities.
- 3. At each distribution of program information, ample time should be given for a thorough review and acknowledgement by all disciplines prior to completion of the project phase.
- 4. A thorough check of the written Project Program should be accomplished at the completion of each phase and confirmed with the client.

ATTACHMENT 19D PROJECT COST CONTROL

PROJECT COST CONTROL

Stafford Consultants, Incorporated recognizes the client desires to control project cost during design and construction.

Stafford Consultants, Incorporated has established a project management system which has successfully controlled design and construction costs.

Following is Stafford Consultants, Incorporated's Design Budget and Time Schedule Policy to control cost and insure probability.

SECTION A

DESIGN BUDGET AND TIME SCHEDULE

General:

Prior to the preparation of budget and time schedule, the entire scope of the project has been defined, the design fee has been set, the contractual agreement has been signed, the project organization has been formed and the project program has been written and reviewed.

Before work commences, the Project Manager should budget both money and time for each phase thus providing each discipline with a yardstick against which to measure performance and monitor progress. Regardless of the office size or the size of the Project, quality tends to suffer when a Project runs behind schedule and/or over budget.

Point to Remember: Each discipline must agree to its budget of time and money prior to starting work. It should evaluate both budget and schedule against is computed effort, advise the Project Manager of its acceptance or rejection and provide the Project Manager with recommended adjustments as appropriate. This is essential where outside consultants are involved.

I. DESIGN BUDGET

A. Budget Determination

The total design fee should be broken down at the start of the Project to determine the design cost.

1. Design Cost is the budgeted figure for salary cost to all disciplines. Each discipline should receive a proportionate amount depending upon its estimated effort in the Project.

Note: Initial proportioning of design cost to the individual disciplines may be estimated by historical data from comparative past projects, by estimated man hour requirements, by estimated drawings to be produced, by estimated construction dollar values of each discipline, or by other reasonable process.

B. Other Factors Affecting Design Budget

- 1. Requirements for outside consultants.
- 2. Requirements for overtime as determined in computing time schedule.
- 3. The impact of a new project on the schedule of other projects in progress.
- 4. Project delays due to extended review periods or program changes resulting from such reviews.
 - a. Be especially cognizant of potential delays resulting from public agency review and approval procedures.

II. TIME SCHEDULE

A. Review Owner's Requirements

- 1. The Owner naturally has strong recommendations for early project completion.
- 2. Management should be very careful at the outset not to "overstate" the capabilities of the firm at the time of negotiations. The client rarely forgets the first date mentioned for design completion.
- 3. "Fast-tracking" or split contracts is becoming commonplace. Firm should be aware of the great amount of coordination required and the inherent problems of control of manpower and finished product. Extra fees, top quality management and high priority over other projects are necessary for success when designing under these requirements.

B. Review Other In-House Project Commitments

- 1. Determine if overtime will be required to meet commitments.
- 2. Work priorities should be established by Firm Management for all projects. Each department or discipline must determine the impact of each new project on its workload. It is <u>not</u> up to individual departments or disciplines to establish project priorities.
- C. Time schedule should be continually measured against man hour effort computed in budget analysis. This shall be compared to the Gantt Project Summary Report or other management programs being utilized.

III. ADMINISTERING DESIGN BUDGET AND TIME SCHEDULE

- A. Distribute final Design Budget and Time Schedule to all disciplines.
- B. Require confirmation of both Design Budget and Time Schedule by each discipline.
- C. Cost

Distribute and review current costs with each discipline periodically.

- 1. Compare dollars expended to percentage complete.
- 2. Do not permit any discipline to overspend without investigation.

D. Project Control

Without proper project control, the entire project may become a "panic situation" leading to "short cutting" and elimination of necessary checking time resulting in undetected errors.

E. Outside Consultants

If outside consultants are required, remember that their performance directly affects your own. Impose the same controls on them as imposed on disciplines within your own organization. Also involve them in the same communication and coordination procedures as applied to the in-house team.

F. Small Jobs

Schedule small jobs carefully. Remember that small projects are just as important to the firm as large projects.

Each employee assigned to the project must complete a daily time sheet which indicates the project name, project number, accounting code to match budget, time worked and description of work. Each employee's time sheet will be approved by the Project Engineer, Project Manager and Vice President.

Each employee must also complete an expense report form for each project which must be approved by Project Engineer, Project Manager and Vice President.

The Project Manager will negotiate a written subconsultant agreement with each subconsultant, which sets forth the scope of work, time schedule, and fees for each project. Prior to beginning work the President or Vice President must execute the Agreement and issue Notice to Proceed.

All subconsultant invoices must be approved by Project Manager and President. These are compared to budget and agreement prior to payment.

Owners also desire to control construction costs and change order costs. Following is Stafford Consultants, Incorporated's Construction Cost Control recommendations to control construction costs.

I. DEVELOP REALISTIC CONSTRUCTION COST ESTIMATE

- A. Develop contract bid documents which provide a clear scope of work by in-house and client review which focuses on issues which generate change orders.
- B. Value Engineering should be considered.

- C. Base estimates on past experience.
- D. Use known contractors to discuss cost saving options during design process.
- E. Owner has option to employ a specialized, professional estimating firm.

II. CONTINGENCY FUND

- A. Provide for a realistic contingency fund to allow for unanticipated conditions.
- B. Minimize change orders. Change orders are a normal part of the construction process and consist of the following general categories:
 - 1. Changes in market conditions.
 - 2. Changes in owner's requirements (scope of work).
 - 3. Design errors.
 - 4. Uncovering undisclosed existing conditions.
 - 5. Unknown existing (latent) conditions.
 - a. unexpected soil conditions
 - b. unknown conditions of an existing structure
 - 6. Changes to initiate better, faster and less costly construction.
 - 7. Design changes to improve final product.
 - 8. Discrepancies in contract documents.
 - 9. Changes in codes and government regulations.
 - 10. Final adjustment of quantities.

NOTE: Change orders are not always bad and do not always result in a negative outcome. Many times the owner is able to provide for a better or expanded

project by using available funds to initiate change orders.

III. RESPONSIVE CONSTRUCTION BIDS

This is accomplished by applying several rules.

- A. Make sure all known contractors who have performed well on past projects are aware of the project well before bids are due.
- B. Conduct mandatory Pre-Bid Conference with all interested contractors.
- C. Be available and respond to all of contractors' questions.
- D. Amend contract documents by addenda if problems are discovered prior to bidding, or to incorporate changes desired.
- E. Select only bids which are <u>responsive</u> and <u>realistic</u>.

IV. CONSTRUCTION ADMINISTRATION

- A. Conduct Pre-Construction Conference with Owner, Contractor, Regulatory Agencies and other affected parties.
- B. Require submission of pre-construction videos prior to beginning work.
- C. Require Contractor's superintendent to prepare daily field report of construction activities using Stafford standard form.
- D. Require Resident Project Representative to prepare daily field report using Stafford standard form.
- E. Contractor's superintendent and Resident Project Representative shall agree weekly on quantities installed.
- F. Conduct on-site monthly progress meetings to review project and discuss issues required for successful completion of project and review Contractor's monthly requisition for payment.
- G. Promptly notify Owner of any potential change orders.
- H. Promptly investigate and resolve all Contractor change order requests.
- I. Notify Owner of status of change orders.
- J. Resident Project Representative shall prepare a preliminary punch list for Contractor's assistance in achieving substantial completion.
- K. Conduct substantial completion inspection with Contractor, Owner and Resident Project Representative and issue Definitive Certificate of Substantial Completion.
- L. Conduct final inspection with Contractor, Owner and Resident Project Representative and issue recommendation for final payment.

ATTACHMENT 19E

RESUMES



C. Dean Upton, P.E. President

Engineering, Design and Consulting Planning and Environmental Services

Education: Marshall University

Bachelor of Science in Civil Engineering, 1973

Professional West Virginia

Registration Virginia

Engineer

Professional Memberships:

National Society of Professional Engineers, West Virginia Society of Professional Engineers,

1998 President; American Water Works Association.

Business and Civic Activities:

Past President of Marie Ruritan Club and member New Hope United Methodist Church.

Experience:

2004 - Present Stafford Consultants Incorporated, President

1997 - 2004 Stafford Consultants Incorporated, Chief Sanitary Engineer

Mr. Upton's responsibilities at Stafford Consultants include administrative duties as chief executive officer and project management. Project management duties include the development of projects from conceptual planning through construction and initial operation of facilities.

Representative projects include:

- Water Treatment and Distribution Improvements, Gary Regional Water. Provided design and project engineering for 2.0 MGD plant improvements, three storage tanks, three pumping stations and 50,000 L.F. of water mains.
- Water System Extension, Gary Regional System Phase II, Pageton and Skygusty. Provide design and project engineering for booster station, 400,000-gallon storage tank, and water main extensions for McDowell County PSD.
- Pre-sedimentation Basin, Lewisburg, West Virginia. Provide planning, design, and construction assistance for 500,000 gallon pre-sedimentation basin for water treatment plant.
- City of Hinton, Gold Coast and Brooklin Sewer Extension. Planning and Design phase services for extension of sewer services to residential and commercial areas adjacent to Hinton.
- Center PSD Wastewater Treatment Plant Improvements. Planning, design, and construction engineering for new decanters and UV disinfection system for existing wastewater treatment plant.
- Ansted Wastewater Improvements, Ansted, West Virginia. Prepare planning, design, funding applications and construction engineering for upgrade of 220,000-gpd wastewater plant and eight pumping stations.
- Athens Wastewater Plant Improvements, Athens, West Virginia. Prepare Wastewater Facilities Plan and design services for expansion and upgrade of wastewater plant to 0.5 MGD capacity.
- Wastewater Treatment Plant Modifications, Princeton, WV. Provide design and construction assistance for improvements to 3.6 MGD wastewater plant to enhance nitrification and solids handling.
- Mercer County Regional Sewer Study, Mercer County, West Virginia. Prepare feasibility study for extension of sewer service within the County.



- Marshall University Weight Training Facility, Huntington, WV. Design and construction phase services for 14,000 square foot weight training facility.
- Wastewater Pump Stations, Blacksburg, Virginia. Evaluate existing Shenandoah wastewater pumping station. Design, plans and specifications for Murphy and Highland Park Pump Stations.

1986 - 1997 Anderson & Associates, Project Manager

Responsible for numerous water and wastewater projects from planning through design and construction. Representative projects include:

- Wastewater Pumping Stations, Town of Blacksburg, Virginia. Four new wastewater pumping stations and expansion of the Cedar Run pumping station from 2.6 MGD to 3.1 MGD capacity.
- Alleghany County, Virginia. Four wastewater pumping stations and I/I rehabilitation of existing sewer systems. Three new water storage tanks and rehabilitation of three existing tanks
- Wastewater Treatment Plant, Rich Creek, Virginia. New 150,000-gpd RBC wastewater treatment facility.
- Water System Improvements, Pearisburg, Virginia. Development of a 220 gpm well, extension of water system, two booster stations, and a 125,000-gallon storage tank.
- Wastewater Treatment Plant Expansion, Shawsville, Virginia. Expansion of plant from 100,000 gpd to 200,000-gpd capacity.
- Foxcroft Avenue Water Improvements, Martinsburg, West Virginia. Distribution system improvements to enhance fire protection.

1981 - 1985 G. A. Tice, Incorporated, Project Engineer/Chief Engineer

Responsible for planning, design and construction administration for water and wastewater projects. Also responsible for coordination of activities for up to three field survey crews. Major municipal projects for which Mr. Upton provided construction administration services include the Shady Springs PSD's wastewater system and the Town of Pax wastewater system. The Shady Spring system included construction of approximately 50 miles of sanitary sewers, three pumping stations, and a 0.8 MGD wastewater treatment plant.

1974 - 1981 Holley Kenney Schott, Incorporated, Project Engineer

Prepared wastewater facilities plans, design drawings and specifications for water and
wastewater projects. Projects completed included numerous sewer system extensions for the
City of Beckley and the North Beckley Public Service District. Facilities plans completed
included the City of Beckley - Raleigh County Facilities Plan and the Red Sulphur Public
Service District Facilities Plan. Design projects also included water and wastewater
extensions to the Red Sulphur PSD system.

1973 - 1974 John E. Harms, Inc., Inspector

 Construction inspector for wastewater collection systems, wastewater pumping station, and storm water systems in Anne Arundel County, Maryland.



Edward L. Shutt, P.E./P.L.S. Vice President

Engineering, Design and Consulting Planning and Environmental Services

Education: Virginia Polytechnic Institute and State University Bachelor of Science in Civil Engineering, 1969

Studies for graduate degree in Sanitary Engineering VPI 1974 & 1975; Water Storage Facilities Design - 1977, University of Wisconsin; Professional Liability/A/E Quality Control - 1980, Victor O. Schinnerer & Company; EPA Construction Grants Administration - 1980, The Cilren Company; Construction Claims 1984, Engineering News Record; Claims and Disputes -Anticipation and Avoidance - 1986, WV Rural Water Association; Construction Contract Administration - 1994 American Institute of Architects: Understanding and Managing Risk - 1995 Victor O. Schinnerer and Company; Better Management - Leading Your Firm and it's Project Manager - The Picus Group; Balanced Evaluation of Public/Private Partnerships - AWWA Research Foundation; Management of Public Works Construction Project -American Public Works Association; West Virginia Construction Law: Can This Job Be Saved - Lorman Education Services -Ethics for Engineers - Chitester Management System, Inc. - 2000; Water Storage Tank Inspections - WVACE/WV Rural Water; Modern Contracting Practices for Infrastructure Projects -Professional Development Option. 2001 - Construction Issues in West Virginia - Lorman Education Services; 2005 - Victor O. Schinnerer and Company, Inc.- Contracts for Professional Services / Alternate Methods for Project Delivery / Insurance for Design Professionals / Dispute Prevention and Non-Adjudicative Resolution - Litigation on Arbitration / Planning for Success in the International Project Arena / Concepts in Risk Management / Legal Liability of Design Professionals / Developing the Capacity to Manage Risk / Evaluation of Projects and Clients / Planning Phase and Design Phase Risk Management / Bidding or Negotiation Phase Risk Management / Construction Phase Risk Management.

Professional Registration West Virginia (Engineer)

West Virginia (Surveyor)

Professional Memberships: National Society of Professional Engineers, American Water Works Association, West Virginia Rural Water Association and West Virginia Society of Professional Engineers.

Business and Civic Activities:

Member Johnston Chapel Church, Past Member Finance Committee; Johnston Chapel Church, former Sunday School Teacher; Mercer County Democratic Executive Committee, Treasurer; Former member West Virginia Association of Consulting Engineers; Former member West Virginia Association of Consulting Engineers Infrastructure Committee.

Experience:

1985 - Present Stafford Consultants Incorporated, Vice President

- Operating officer in charge of design, construction administration activities and quality assurance. Responsibilities have involved conceptual planning, preliminary engineering, final design, financing, bidding and negotiations, construction administration, supervision of resident project representation and final closeout for projects ranging from \$250,000 to \$44,000,000 in size.
- Design/Quality Assurance Review for various projects.
- Expert Witness in construction claims, change orders and engineering standards of practice.



1977 - 1985

Gates Engineering Company, Chief Environmental Engineer, Chief Sanitary Engineer, Assistant Chief Engineer - Sanitary, and Civil Engineer

- Responsible for the supervision of civil and sanitary projects, as well as the day-to-day supervision of three engineers and the coordination of designers and draftsmen.
- Assisted clients by performing preliminary engineering studies and cost estimates for grant applications to secure funding from various government agencies, as well as performing detailed work in financing through revenue bonds.
- Prepared feasibility studies, rate studies and operational and maintenance budgets.
- Design and construction administration services for water and wastewater systems.
- Supervised design of 1.1 miles of WV Route 290/1 for the WV Department of Highways.
- Participated in planning and design of the West Virginia University Stadium.
- Participated in planning and design of expansion of Martinsburg Veterans Administration Hospital.
- Provided engineer's services during construction and supervised resident project representatives.

1975 - 1977 Region I Planning and Development Council, Sanitary Engineer

- Prepared grant applications and assisted communities in obtaining funding for water and sewer projects.

1975

Pentree Incorporated, Design Civil Engineer

- Responsible for design of water treatment plant and distribution system.

1974 - 1975 Virginia Polytechnic Institute and State University, Graduate Student and Graduate Research Assistant.

1972 - 1974 Pentree Incorporated, Design Civil Engineer

- Coordination and supervision of all survey work. Survey work including topographic surveys, land surveys, control surveys for aerial mapping and construction surveys for contractors in the layout of their work.
- Design of wastewater plant, runway expansion and airport layout.

1970 - 1972 United States Army, Draftsman Honorably discharged with the rank of Sergeant (E5)

Summer 1969 Frank R. McGuire Construction Company, Draftsman

Responsible for preparation and obtaining approval of all working drawings from Architect/ Engineer on the Big Walker Mountain Tunnel Portal Building (I-77) in Wytheville, VA.

Summers 1966, 1967 & 1968 West Virginia Department of Highways

Worked on survey crew in 1966, which was involved in layout of various highway projects.
 Also surveyed projects for final quantities. Worked as a laborer on bridge repair and as a survey taker for determining traffic counts.



Kenneth R. Crowe, P.E. Chief Structural Engineer

Engineering, Design and Consulting Planning and Environmental Services

Education: West Virginia Institute of Technology

Bachelor of Science in Civil Engineering, 1976

Professional Registration West Virginia Virginia

Engineer

Kentucky

Business and

Church Treasurer, Board of Trustees Chairman, and member of New Hope United

Civic Activities: Methodist Church

Experience:

1985 - Present Stafford Consultants Incorporated, Chief Structural Engineer

Design Engineer and Project Manager for the following projects:

- Bridge design, roadway design and WVDoH coordination for Patterson Creek Bridge, Devils Backbone Bridge, Cassity Bridge, Reeses Mill Bridge, Tabbs Station Bridge, Bowles Bridge, Gardner Truss Bridge, Iaeger/Bradshaw Bridge, Mineral Wells Interchange Overpass Bridge, Camden Avenue I-77 Bridge, Mullens Overhead Bridge, Cass Arch Bridge, Gould Bridge, Wiggins Bridge, Hutchinson Branch Bridge, Grapevine Creek Bridge, Rolfe Arch Bridge, Craigsville Intersection Improvements, Webster Road Intersection Improvements, Hinton Road Intersection Improvements, Bellepoint Road Widening, North Lewisburg Road Widening and 5.25 miles of the four lane Coalfields Expressway in McDowell County.
- Roadway design and WVDoH coordination for Poca Bridge, Pax Bridge, Rock Truss Bridge,
 Welch Post Office Bridge, Buckhannon Truss Bridge and Buffalo Creek Bridge.
- West Virginia Department of Energy Abandoned Mine Lands reclamation projects including Williamson Nursing Home Slide, Weyanoke Portals, Mason County Bond Forfeitures, Heizer Creek, Sarah Ann Drainage, Canebrake Complex, Milburn Red Dog Pile, Charleston Portals, Millersville Road Refuse Piles, Cabin Branch Refuse Pile, Mill Branch Refuse Piles, Ameagle Complex, Shoemaker Landslide, Kermit Drainage, Birds Creek Refuse and Blue Pennant Complex.
- Structural design for Mathena Cultural Arts Center in Princeton.
- Structural design for Athletic Facilities Building at Virginia Tech.
- Structural design for skybox addition at West Virginia University.
- Structural design for Princeton Community Hospital's Behavioral Medicine Center.
- Structural design for clarifier at Welch Wastewater Treatment Plant.
- Structural design for sequencing batch reactor at Athens Wastewater Treatment Plant.
- Structural design for flocculator tank at Summersville Regional Water Treatment Plant.
- Preparation of contract plans and bidding documents for pedestrian underpass, Shott Building Elevator and Conley Hall Renovations at Bluefield State College.
- Preparation of contract plans and bidding documents for sidewalk replacement and drainage improvements for the Town of Oakvale.
- Preparation of contract plans and bidding documents for renovations to Married Student Housing Building at Marshall University.
- Preparation of contract plans and bidding documents for sidewalk construction along Stafford Drive and Ingleside Road for the City of Princeton.
- Expert testimony on various structural and drainage problems associated with design or construction issues.



- Building, structure, pile foundation design and truss analysis for Celanese Celco Plant, Narrows, Virginia.
- Preparation of contract plans and bidding documents for parapet repair, roofing replacement and canopy construction projects for Princeton Community Hospital.
- Preparation of contract plans and bidding documents for roofing replacement project for Princeton Public Library.
- Updating of Master Plans for Greenbrier Valley Airport and Mercer County Airport.
- Bridge inspection and rating for United Coal Company.

1981 - 1985 Gates Engineering Company, Principal Consulting Mining Engineer and Civil Engineer II

- Responsible for all mine permitting, including DR-4 Surface Mine Applications, DR-14 Underground Opening Applications, DR-3 Prospecting Applications, NPDES Permit Applications and Department of Mines Opening Approval Applications. Performed all permit related design; haulroads, diversion ditches, sediment ponds, drainage control structures, valley fills and refuse disposal areas.
- Assisted in mine design and refuse disposal area design. Performed property evaluations
 including coal reserves and reclamation needs. Operated department microcomputer; wrote
 programs; and provided computer analysis for STRESS and COGO. Assisted on bridge and
 structural design projects.

1980 - 1981 Westmoreland Coal Company Central Engineering Department, Chief Environmental Engineer

Responsible for all civil engineering design and mine permitting in Westmoreland's West Virginia Divisions. Supervised three engineers and two draftsmen. Prepared OSM Permit Applications, West Virginia Department of Natural Resources DR-4, DR-14 and DR-23 Surface and Deep Mine Applications, State Water Pollution Control Permit Applications and NPDES Permit Applications. Designed sediment ponds, drainage control structures, concrete footings and walls and steel columns and beams. Prepared run-off hydrographs for drainage design, performed flood routing and performed fill slope design.

1979 - 1980 Westmoreland Coal Company Central Engineering Department, Environmental Engineer

Prepared OSM Permit Applications, West Virginia Department of Natural Resources DR-4, DR-14 and DR-23 Surface and Deep Mine Applications, State Water Pollution Control Permit Applications and NPDES Permit Applications. Designed sediment ponds, drainage control structures, concrete footings and walls, and steel columns and beams. Prepared run-off hydrographs for drainage design, performed flood routing and performed slope design.

1976 - 1979 Westmoreland Coal Company Imperial Smokeless Division, Mining Engineer

Performed all steel and concrete design for the division - beams, footings, columns and walls. Performed surveying outside and underground. Prepared NPDES, State Water Pollution Control, and deep and surface mining permits.



Christopher L. Perdue Assistant Project Manager

Engineering, Design and Consulting Planning and Environmental Services

Education: Bluefield State College

Bachelor of Science in Civil Engineering Technology

May, 2003

Professional

Registration Virginia

R.L.D.

#26145 (Exp. 10-30-09)

Professional Memberships:

American Society of Civil Engineers (Since 2001), Engineers and Surveyors Institute (ESI)
Designated Plans Examiner (Fairfax and Loundoun Counties, and City of Alexandria, VA)

Experience:

January, 2008 - Present Stafford Consultants Incorporated, Assistant Project Manager

Mr. Perdue's responsibilities at Stafford Consultants include project design assistance and construction phase assistance for water, wastewater, stormwater management, and development projects.

Assignments include the following projects:

- Wastewater Collection System Expansion and Wastewater Plant Improvements, Hinton, WV. Preliminary design and project engineering for 2.0 MGD (peak flow) plant improvements, 2 pumping stations and 16,000 L.F. of Gravity Sewer and Sanitary Force Main.
- Anchor Road Water System, Logan County, WV. Design and project management assistance for \$2,500,000 water system expansion project.
- **Douthat Water System Extension, Alleghany County, Virginia.** Prepare VMRC and Corps permit applications and assist with construction phase engineering services.

July, 2004 - October, 2007 VIKA, Incorporated, Project Manager/Project Engineer

Project Management responsibilities included; Initial Project Feasibility Studies, conceptual design, Final Design to include Sediment and Erosion Control Plans, Wet Utility Design, Storm Water Management Facilities (Wet and Dry Ponds, regional impoundments, Underground Facilities, etc.), Traffic Control Plans. Responsibilities also included Construction Administration services from construction commencement to project occupancy or completion.

- Fort Lincoln Townhomes, Washington, DC. Planning, design and construction administration services for 222 townhouse unit development. Project included stormwater management and retaining wall structures.
- The Villages at Washington Gateway, Washington, DC. Feasibility study and planned urban development preparation for 22 acre tract. Project included development of a regional stormwater management pond.
- Stonewall Estates, City of Fairfax, VA. Planning, design and construction administration services for 7-lot subdivision. Plan included utilities, roadway and storm water management.
- Riverside Park Apartments, Fairfax County, VA. Planning for new amenities to existing 1500-unit residential development. Amenities included new clubhouse, amphitheater, two swimming pools, leasing office and other site improvements.
- Southeast Federal Center, Washington, DC. Preliminary planning, site grading, hydraulic
 design related to floodplain issues and permitting for roadways and utilities in areas
 surrounding the Washington Nationals Stadium along the Anacostia River in Southeast D.C.



Kevin G. Smíth Designer/CAD Technician

Engineering, Design and Consulting Planning and Environmental Services

Education: Raleigh County Vocational Education Center, 1979

Licensed:

Civil I and Civil II

Lay Minister Certificate, School of Christian Studies of the

West Virginia Baptist Convention

Certificates

Experience:

1998 - Present Stafford Consultants Incorporated, Designer/CAD Technician

- Design and drafting on bridge and highway road projects throughout the State of West Virginia including Grapevine Creek Bridge, Hutchinson Branch Bridge, Cass Arch Bridge, Mullens Bridge, Coalfields Expressway US 121, Wiggins Bridge, Mineral Wells Interchange Overpass Bridge, US Route 219 Lewisburg Widening, Bellepoint Road Widening, Route 41 and West Webster Road Intersection Improvement, Route 20 and 55 Intersection Improvement, and Gould Bridge.
- Design and drafting for water and wastewater projects including, Summers County Sewer Study for Summers County Commission, Summersville Water Treatment Plant, John Nash Boulevard Sewer for Bluefield Sanitary Board, Brooks Barksdale Water Extension for Mercer/Summers County Commissions.
- Design and drafting on Gardner Industrial Park for Mercer County Commission.
- Design, site layout and drafting for site development for Chapmanville Regional High School, Parkersburg South High School renovations, Parkersburg High School renovations, Williamstown High School renovations, Oak Glen Middle School "Field of Dreams", Bayer Federal Credit Union and Hilltop Elementary School.

1998 Computects and DBD Professional Group, Inc. - Beckley, WV

- Performed civil site deigns and civil layout of architectural projects including Oak Hill Days Inn, Gary Library and Medical Center, Ronceverte Voluntary Fire Department, Ronceverte City Hall, and Sun Mountain.
- Design and drafting on engineering projects including Glade Springs Sanitary Sewer Relocation.
- Site development for A&E Construction at the NW intersection of US 19 and WV16 north of Beckley.

1992-1997 G. A. Tice Incorporated - Beckley, WV

- Design and drafting on various civil engineering projects including subdivision layouts and Pinecrest Industrial Park at Beckley.
- Highway and roadway storm drainage systems.
- Sanitary sewer collection and extensions systems including Shady Spring PSD, Town of Mount Hope, and North Beckley PSD.
- Water distribution systems including Town of Pax and Crow area water extension project.
- Calculations for many residential, commercial and government survey projects including Canaan Valley State Park for USFW Service and the New River National Park Service.
- Civil site design for commercial and government projects including Beckley Holiday Inn Addition, Haz Mat Facilities Administration Building, Pinecrest Industrial Park, and Cool Ridge Post Office.



1986-1992 ESP Associates - Charlotte, NC

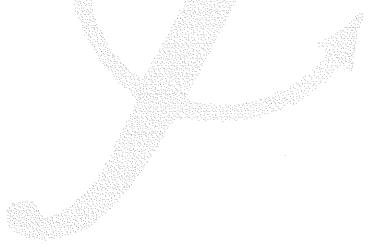
- Development of custom CAD packages for in-house use, including Storm Water, Sanitary Sewer, Subdivision Layout and Staking, and Roadway Design.
- Drafting and design for layout of subdivisions with the responsibility of the layout of lots, roads, sanitary sewer, storm drainage and final plats for recording.
- Calculations for up to four field crews for field layout for Outer Beltway Interstate 485, Sanitary Extension along I-77 North of Charlotte, Widening of Park Road, Relocation of 36" and 42" Gas Transmission at High Point, NC, Rock Hill, SC subdivision development, Widening of US Route 17 in NC, Cabarrus Industrial Complex including I-85 interchange and Airport, Riverrun Subdivision including golf course, Cameron Woods Subdivision Phases III-VII, many other smaller industrial, commercial and residential projects in the Charlotte area.

1981-1986 G. O. Bledsoe, Incorporated – Beckley, WV

 Supervised drawing of plats and maps by other employees. Design and drafting for engineering and surveying projects using CAD. Survey calculations and reductions for many residential, commercial and industrial projects. Advanced from rodman to crew chief to supervisory position.

1980-1981 HKS - Beckley, WV

Advanced from rodman to instrument man including note keeping and field note reductions for various commercial and industrial projects.





Don E. Parsons Draftsman/CAD Technician

Engineering, Design and Consulting Planning and Environmental Services

Education: Tazewell High School; Tazewell, VA - 1968 - Diploma

Woodrow Wilson Rehabilitation Center; Fishersville, VA - 1968-1970

(School of Drafting - Drafting Technology) - Diploma

Tazewell County Vocational Technical Center; Tazewell, VA - 1971-1975

(Basic Electronics, Auto Mechanics, Carpentry) - Certificates

Southwest Virginia Community College; Richlands, VA - 1976 (Surveying)

AutoCAD Training Certificate, 1985

Bluefield State College; Bluefield, WV - 1986-1987

(BASIC Programming, Electrical Drafting)

Experience:

1990 - Present Stafford Consultants Incorporated, Draftsman/CAD Technician

Drafting involvement on most bridge, water and sewer projects, including:

- Athens Wastewater Treatment Plant
- Airport Master Plan drawings for Mercer County Airport and Greenbrier Valley Airport.
- Greenbrier Valley Airport runway and apron patching plans and upgrading fencing plans.
- Sewer projects for Bramwell PSD, Sandstone and Welch.
- Building renovations for Pocahontas Land Company, Beckley Housing, Celanese Celco Plant, and Marshall University Married Student Housing Projects I and II.
- Marshall University Football Stadium and Scoreboard.
- Sidewalk improvement projects for the Town of Oakvale and City of Princeton.
- Bridge plans and drawings for: Hutchinson Branch Bridge, Mullens Bridge, Cassity Bridge, Camden Avenue Bridge, Cass Arch Bridge, Indian Gap (Coalfield Expressway) Bridge, Gardner Truss Bridge, Gould Bridge, Mineral Wells Interchange Overpass Bridge, Wiggins Bridge, Iaeger/Bradshaw Middle School Bridge, Bowles Bridge, Devils Backbone Bridge, Reeses Mill Bridge, Patterson Creek Bridge, Tabbs Station Bridge and Little Marsh Fork Bridge.
- Roadway plans for Buffalo Creek Bridge project, North Lewisburg Widening (turn lane project), Webster Road Intersection (turn lane project) and Hinton intersection (turn lane project).
- Abandoned Mine Lands Reclamation projects including: Shoemaker Landslide, Kermit Drainage, Birds Creek Refuse and Blue Pennant Complex.
- Structural drawings for VPI Athletic Facility building.
- Conveyor Drawings and Access Bridge Drawings for Celanese Corporation.
- Craigsville Waterline Relocation.

1990 E. T. Boggess AIA, CAD Technician

- Detailed drafting on architectural and site plan drawings, including electrical layouts on CAD.



1988 - 1990 Melcher Development Incorporated, CAD Technician

 Prepared detailed architectural building and site plan drawings of doctor's offices complex on AutoCAD. Prepared detailed plans of single dwelling homes including kitchen and bath designs.

1982 - 1987 Swanson Plating and Machine Company, Inc., Chief Draftsman

Responsible for:

- Supervising other draftsmen, all on-site measurements and designing of all coal mining projects, and all new hydraulic jack designs.
- Assisted in other in-house repair and improvements and prepared AutoCAD gear and sprocket drawings.

1970 - 1982 Consolidation Coal Company, Draftsman

Responsibilities included:

- Updating mine workings plots on hardbacks and tracings.
- Transposing survey calculations onto logbooks, calculating mine tonnages and traversing bore hole locations for drillers. Calculating mined areas using a planimeter. Keeping mine ventilation and forecasting maps updated.
- Updating monthly mine tonnage production charts company-wide.

1970 Appalachian Power Company, Draftsman Traince in Engineering Department

- Calculated and prepared wire sag detail drawings for tower to tower spans and service relocation drawings.
- Made all copies of maps for fieldwork crews.



Engineering, Design and Consulting Planning and Environmental Services Sidney P. Burns Senior Resident Project Representative

Education: Greenbrier High School, Ronceverte, WV, 1958

Licensed: Certified Engineering
Technician - Level IV

Troxler Certified Nuclear
Density Gauge Operator

Experience:

1985 - Present Stafford Consultants Incorporated, Senior Resident Project Representative

- Responsible for inspection and documentation of work performed for various civil engineering construction projects including water treatment plants, wastewater treatment plants, collection lines, distribution lines, plant piping, pump stations, reclamation projects and street replacement. Specific projects include Mercer/Summers Water Project, City of Welch Wastewater Treatment Plant, Town of Alderson Wastewater Treatment Plant, City of Summersville Wastewater Treatment Plant, City of Mullens Streetscape Project, Wilderness PSD Waterline Extension Project, Williamson Nursing Home Slide AML Reclamation Project, and Danville PSD Wastewater Treatment Plant and Collection System.
- Assisted in preparation of cost estimates for construction projects including water plants wastewater plants, collection lines, distribution lines, street and pavement improvement projects.
- Performed field surveys for numerous projects including Mercer/Summers Water Project, Town of Athens Water Project, Oakvale Road PSD Sewer Project, Wilderness PSD Water Project, Greenbrier Valley Airport, Big Bend PSD water tank project, City of Welch Sewer Project, Logan County PSD Water Project, Impoundment for Bluewell PSD, Town of Bramwell Sewer Project, Mason County Bond Forfeiture AML Project, Millersville Road Refuse AML Project, Milburn AML Project, Sarah Ann AML Project, Welch Post Office Bridge Project, Town of Ansted Pump Stations and Big Bend PSD Sewer Project.

1980 - 1985 Gates Engineering Company, Contract Administrator

 Responsible for documentation and contract procedures for various construction projects related to water treatment and wastewater treatment facilities. Specific projects include Crab Orchard-MacArthur PSD Wastewater Treatment Plant, Town of Pineville Water Treatment Plant and distribution lines, and Mercer County Development Authority - Cumberland Industrial Park

1961 - 1980 West Virginia Division of Highways, Project Supervisor

- Responsible for inspection, documentation and testing of all material and work performed on several interstate highway and Appalachian Corridor construction projects.
- Coordinated all construction activities with the general public.
- Prepared all necessary change orders and coordinated construction with funding agencies and the Federal Highway Administration.

1958 - 1961 V. N. Green Company Incorporated

- Laborer and heavy equipment operator, highway construction. Instrument man on survey party at Armco Steel, Ashland, Kentucky. Survey Party Chief for construction stakeout and documentation of work performed on two major highway projects in Marion, Virginia and Grayson, Kentucky.