

SEPTEMBER 6, 2012



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## TECHNICAL PROPOSAL

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## COST PROPOSAL

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# Southern County Mapping

RESPONSE TO SOLICITATION OF BIDS  
TO PROVIDE MAPPING SERVICES TO THE  
STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF ABANDONED MINE LAND  
AND RECLAMATION

RECEIVED

2012 SEP -5 AM 9:54

WV PURCHASING  
DIVISION



Consulting Engineers





A Resource Engineering Group Company

1428 Main Street  
P.O. Box 1309  
Princeton, WV 24740  
304-431-7800 Phone  
304-425-0445 Fax

August 31, 2012

Mr. Guy Nisbet  
Department of Administration, Purchasing Division  
2019 Washington Street East  
Charleston, WV 25305-0130

**RE: RFQ DEPAML15938 – Mapping Services for the  
Southern Counties of West Virginia**

Dear Mr. Nisbet,

Enclosed are two copies (one bound, one unbound) of our response to the DEPAML15938 Request for Solicitation for Mapping Services for the Southern Counties of West Virginia. Being as our offices are located in Southern West Virginia and almost all of our employees are West Virginia natives, we are particularly interested in providing the services you are seeking.

Pentree, Incorporated has provided mapping services for various clients over the course of the last forty six years. Our Photogrammetry and Survey Departments have the *capacity of providing topographical, design data and construction surveys in accordance with the U.S. National Mapping Standards* and have over ninety years combined experience with those standards.

It would be a privilege to once again be able to provide the State of West Virginia with our formidable skills in Photogrammetry and Survey Services and look forward to the opportunity to do so. If you have any questions or need additional information, please contact me.

Sincerely,  
PENTREE, INCORPORATED

A handwritten signature in black ink, appearing to read 'John W. Tuggle', is written over a large, light-colored circular scribble.

John W. Tuggle, P.E., P.S.  
JWT/jhv  
enclosures

*In this proposal...*

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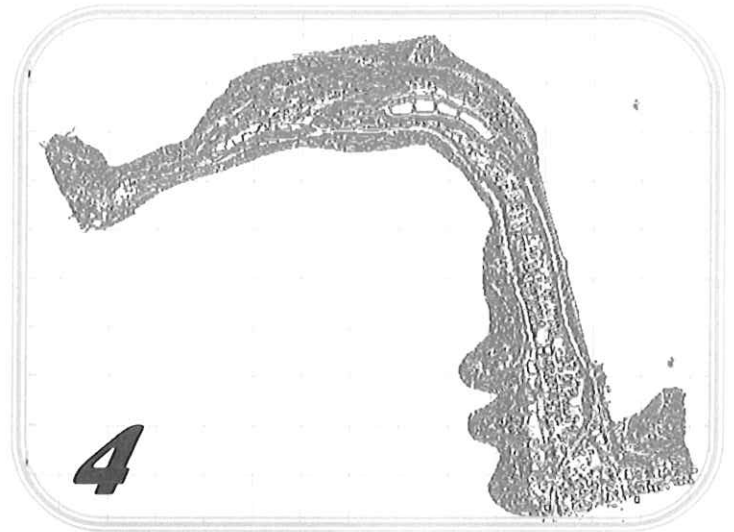
a. Certification and Signature Page

b. Vendor Preference Certificate

c. Purchasing Affidavit

For additional information

visit our website at [www.pentree.com](http://www.pentree.com)



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## Introduction

**P**entree, Incorporated was established in 1965. However, our firm's historic roots can be traced all the way back to Thurmond, West Virginia in the height of the New River Gorge timber and mining bonanza. The late W.E. Willson began his career as a mining engineer. He relocated his firm to Oak Hill and eventually sold the company to a group by the name of Bennet-Nave-Thomas. From that organization, Mr. Pentrimus Thomas launched the Pentree Division of Bennet-Nave-Thomas, and by the mid 1960s Pentree incorporated and began to function as a free standing firm with emphasis on utility based engineering. In the 1980s the office in Oak Hill relocated to Princeton, West Virginia and since then, our firm has solidified into one of the foremost utility firms in Southern West Virginia.

It has been the primary focus of our firm to acquire and maintain cutting edge technology in order to provide our clients



H.E. Willson  
1881-1946

with the most reliable engineering, survey and photogrammetry services attainable.

Additionally, our staff is inspired to provide the most honest, the most beneficial and the most reliable design feasible.

The information on the following pages focuses primarily on our survey and mapping clientele and the experienced project team that will lead the Southern County Mapping Project. By selecting Pentree, Incorporated, the DEP/AML will be assured that the full force of our staff of thirty-two employees will be intent on producing the quality mapping and survey services expected.



## Similar Previous Survey Experience

Topographic and control surveys on transmission line and station addition at the **John Amos Power Plant** in Putnam County, West Virginia

Topographic, control and utility location surveys on new **Patrick Street substation** and transmission line in Charleston, West Virginia

Topographic, control, easement and construction stakeout surveys on new **Halls Ridge Substation** and transmission line at Princeton in Mercer County, West Virginia

Topographic and control surveys for new Spectra Energy substation and transmission line at **Glade Spring** in Washington County, Virginia

Topographic, control, easement, ALTA/ACSM land title survey and construction stakeout for new **Lockhart substation** and transmission line

at Clintwood in Dickenson County, Virginia

Topographic, control, boundary and ALTA/ACSM land title surveys for new **Duffield substation** at Duffield in Scott County, Virginia - Centerline and R/W staking for 2 plus miles of transmission line along with topographic and feature location survey along the transmission line corridor

Topographic, Control, Easement and ALTA/CASM land title surveys for **Thorofare Station**, site and transmission line at Clendenin, West Virginia

Control, topographic, easement and ALTA/ACSM land title surveys for **Arrowhead Substation** and transmission line near Abingdon in Washington County, Virginia

**Midvol Coal** - Set aerial targets and developed GPS control network for mapping of 34,000 acres of coal reserves in Mercer, McDowell and Wyoming Counties, West Virginia

**Bluestone Coal** - Set aerial targets and establish positioning for mapping control of six strip mines and impoundment sites in McDowell and Wyoming Counties, West Virginia

**West Virginia Department of Transportation** - Establish horizontal and vertical reference point control for Contracts 4 and 5 of the Coalfields Expressway at Indian Ridge, McDowell County, West Virginia



Substation Construction

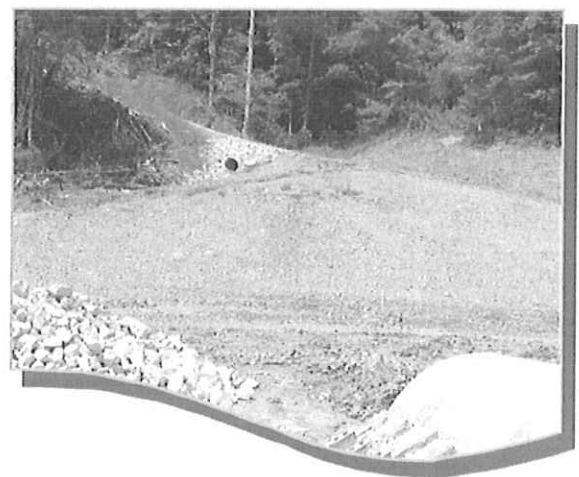
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## *Similar Previous Mapping Experience -*

Ackenheil & Associates  
Alliance Consulting  
Alpha Natural Resources  
Anderson & Associates  
Apogee Coal Company  
Appalachian Surveys, Inc.  
Arch Coal  
Berkeley Associates  
Berkeley County PSSD  
Berkeley Land Surveys  
Cardinal Point Services  
Catenary Coal  
Clinchfield Coal  
Coal Mac Coal Company  
Cosi Synfuels  
Dewberry & Davis  
Dickenson Russell Coal Company  
Doss Engineering, Inc.  
DR Price Engineering  
Engineering Services, Inc.  
Evergreen Coal Company  
Hampton Coal Company  
Heritage Technical Associates  
Hodgesville PSD  
Imagin Natural Resources  
Kanawha Corporation  
Kentucky Coal Company  
Laurel Mountain Coal Company  
Lexington Coal Company  
Marshall Miller and Associates  
Meadow River Coal Company

Mid Vol Coal Company  
Mingo Logan Coal Company  
Mountain State Surveying  
New River Engineering, Inc.  
Optima Properties WV, LLC  
Page Kincaid PSD  
Pittston Coal Company  
Pounding Mill Quarries  
Power Mountain Coal Company  
Raleigh County Airport Authority  
Raleigh County Board of Education  
Riverton Coal Company  
Thrasher Engineering, Inc.  
Town of Fayetteville  
Trueline, Inc.  
United Pocahontas Coal Company  
Vecillio & Grogan  
Westlake  
White Flame Energy



Erosion and Sediment Control



## *Current Survey Experience*

- Raynes Station - Topographic and control survey on 4.5 acre proposed Substation site near Robson, Fayette County, West Virginia
- Mechel/Bluestone - Control survey for aerial mapping of railroad and coal company propertied from Eckman to Kimball, McDowell County, West Virginia
- Carpenter Reclamation - Topographical and Asbuilts of Reclamation site at Matoaka, Mercer County, West Virginia
- Fountain Water Project - developed mapping from combination of SIDS and new aerial photography to provide the current existing conditions for utility design.

## *Current Mapping Experience*

- |                           |                            |
|---------------------------|----------------------------|
| Alpha Natural Resources   | ICG Eastern                |
| Appalachian Surveys, PLLC | ICG Kentucky               |
| Catenary Coal             | MidVol Coal Sates          |
| Cliff Natural Resources   | Mountain Laurel            |
| Dewberry & Davis          | Patriot Coal               |
| Gatling Worley            | Thrasher Engineering, Inc. |
| Hillsboro Energy, LLC     | Trueline, Inc.             |
| Hobet Mining              | West Virginia University   |





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## *Project Team*

### **Key team members are:**

John W. Tuggle, P.E. , P.S.

Professional Engineer #11045

State of West Virginia

Professional Surveyor #1176

State of West Virginia

**Principal-in-Charge, Project Manager**

Gary Shields, PE, PS

State of West Virginia

Professional Surveyor #766

State of West Virginia

**Survey Department Director**

Adam Westfall, LS

State of VA, KY

**Survey Department Manager**

Doug Richmond, LS

State of VA, OH, TX, AL, MS, LS & NC

**Geodetic Specialist**

Roy Maddox, LPS

Licensed Photogrammetrist Surveyor

**Photogrammetry Department Manager**

Robert Holmes, LPS

Licensed Photogrammetrist Surveyor

**Chief Photogrammetrist**

James Underwood

**Photogrammetry Technician**



Erosion and Sediment Control Inspection





## John Tuggle, P.E., P.S. - Principal-In-Charge

Mr. Tuggle joined Pentree, Incorporated in 1985 and serves as President and Principal-In-Charge for the firm. His primary responsibility is the oversight of all firm projects. Mr. Tuggle has extensive experience working with various regulatory and funding agencies, and is extremely knowledgeable of contract preparation, analysis and interpretation. Having been involved with the District for the last seventeen years, his knowledge and experience with these projects is unparalleled.

Mr. Tuggle has extensive experience working with various regulatory and funding agencies, and is extremely knowledgeable of contract preparation, analysis and interpretation. He has also provided recommendations and assistance to numerous clients in securing the best source of funding to suit their needs.

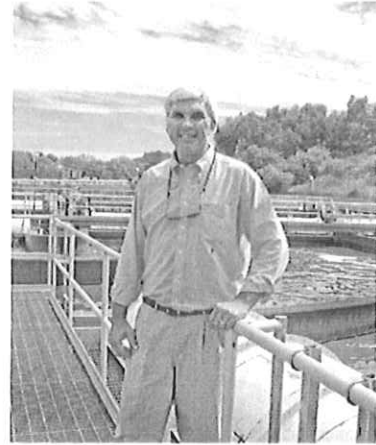
Mr. Tuggle has been involved with various types of projects including:

- Industrial Park Site Development
- Subdivision Development
- Water Treatment Plants
- Water System Upgrades
- Water Line Extensions
- Wastewater Treatment Plants
- Wastewater System Upgrades
- Wastewater Collection Extensions
- Storm Water Management
- Highways and Roads
- Access Roads

### Project Experience:

**Webster County Industrial Park Utility Extension** –  
Project Manager, Contract and Construction Administration

**Greenbrier Valley Economic Development Corporation** - Rahall Technology Center Phase II - Principal-In-Charge



**Greenbrier Valley Economic Development Corporation** Fountain Springs Phase I - Quality Control Engineer

**Oak Hill Police Department** - Principal-In-Charge

**McDowell County Prison** - Site Development, Principal-In-Charge

**District 10 Headquarters** - Site Development - Quality Control Engineer

**Tourist Information Center** - Site Development - Design Engineer

**City of Oak Hill Sidewalk Projects (All)** - Principal-In-Charge, Project Manager and Contract Administration

**Town of Fayetteville** - Nickelville and Town Sidewalk Projects - Principal-In-Charge

### Education:

B.S. Civil Engineering Technology, 1982 - Bluefield State College

### Registrations:

Registered Professional Engineer, 1993, #011845, State of West Virginia

Registered Professional Engineer, 2011, #049260, State of Virginia

Registered Professional Surveyor, 1995, #1176, State of West Virginia



## R. Gary Shields, P.S. - Survey Department Director

Mr. Shields joined Pentree, Incorporated in 2003 and serves as Survey Manager for the firm. Prior to his employment with Pentree, Incorporated, Mr. Shields worked as an Independent Licensed Land Surveyor. Currently, he supervises and reviews all of Pentree, Incorporated's survey activities.

In addition to Mr. Shield's experience as a surveyor, he is a Licensed Professional Engineer. In this capacity, he is knowledgeable in the planning and design of storm water management systems, potable water systems and sanitary sewer systems. Furthermore, his experience encompasses preparation of specifications, permits and plans. He has also provided construction inspection for subdivision developments.

Mr. Shields is extremely skilled in various types of surveys, including but not limited to:

- Control Surveys
- Topographical Surveys
- Boundary Surveys
- Easement Surveys
- Construction Layout
- GPS

### Education:

B.S. Civil Engineering Technology, 1980, Bluefield State College

### Registrations:

Professional Engineer, 1990 #10786  
State of West Virginia

Professional Surveyor, 1982 #766  
State of West Virginia

Professional Surveyor, 1986 #1545  
State of Virginia

### Project Experience:

**City of Oak Hill Phases II and III Sidewalk Project** – Survey manager for the Site Survey and Construction Layout

**City of Oak Hill Sanitary Board** – Lead Surveyor for Elevation and Location Survey of Existing Sewer Lines

**Glenfield Subdivision, Mercer County, WV** – Survey Manager for Lot and Utility Design and Layout

**Rahall Technology Center, Greenbrier County, WV** – Survey Manager for Elevation and Location Survey

**Midvol, Mercer and McDowell Counties, WV** – Survey Manager for GPS Control Network for Aerial Mapping of 34,000 Acres of Coal Reserves

**McKenzie Company, Greenbrier County, WV** – Project Oversight of Boring Operation into Abandoned Mine for AML Mine Reclamation



**Gary Shields, L.L.S.**

Survey Director





## Adam Westfall, LS - Survey Department Manager

Mr. Westfall has been with Pentree, Incorporated since relocating from the Charlottesville area in May of 2011. Prior to joining the firm his work experience encompassed all aspects of survey experience. Adam has experience providing construction layout for marine as well as land based projects, boundary surveys, courthouse research, drafting, data processing, supplies procurement and inventory control, coordinating billing, project paperwork and maintaining client satisfaction. As his career advanced, he became responsible for proposal preparation, Quality Assurance/Quality Control, computations, scheduling field crews, marketing and developing field and office technical procedures.

### Education:

Glenville State College, Land Surveying  
Associates Degree Program

### Registrations:

Virginia Licensed Land Surveyor #3117  
Kentucky Licensed Land Surveyor #2019

### Project Experience:

Kenova 138kV Power Transmission Rehab -  
Developed proposal, coordinated filed crew efforts, processed and delivered survey data

Glade Springs Station -  
Performed ALTA-ACSM survey, managed the acceptance of the Land Use Plan, concept and land trade through various Washington County, VA agencies

Belva-Clendenin Power Transmission Line Rehab -  
Coordinated the efforts of multiple field crews to accomplish data collection and construction stakeout for twenty-six miles of utility rehabilita-



Transmission Line Construction



Surveying & Engineering



## *Doug Richmond, L.S. - Geodetic Specialist*

**PROJECT RESPONSIBILITIES:** GPS Geodetic Control Surveys/Airborne GPS

**EDUCATION AND FORMAL TRAINING:**

B.S., Civil Engineering - University of New Orleans (1987)

OSHA 29 CFR 1910.120 Hazardous Waste

**YEARS OF EXPERIENCE: 40**

**REGISTRATION AND CERTIFICATIONS:**

Professional Land Surveyor, VA #1718, OH #5-7860, TX #4660, AL #15425, MS #PLS-1959, LA #4507, NC #L-4008

**PROFESSIONAL AFFILIATIONS:**

Virginia Association of Surveyors (VAS)  
Ohio Professional Land Surveyors (OH PLS)  
North Carolina Society of Surveyors (NCSS)  
American Congress on Surveying and Mapping (ACSM)  
American Society of Civil Engineers (ASCE)  
Virginia Association of Mapping/Land Information Systems (VAMLIS)  
Maryland Society of Surveyors (MSS)

**PERSONAL EXPERIENCE HISTORY:**

Mr. Richmond has a diverse background in all phases of surveying and mapping. He is a multi state licensed surveyor and a geodetic engineer holding a Bachelor of Science degree from the University of New Orleans. He is an expert in the management and performance of large technically demanding projects. His expertise includes project management, boundary surveys, GPS control surveys and applications, automated hydrographic surveying, photogrammetry and mapping.

Mr. Richmond has completed a large number of First Order County Wide geodetic control projects for mapping, monument densification, and geographical information systems. The projects have been bluebooked and accepted for publication by the National Geodetic Survey (NGS). Some recent notable large geodetic surveys include:

**Buncombe County, NC** - Height Modernization Surveys for National Geodetic Survey, Bluebook Project  
**Watauga County, NC** - Height Modernization Surveys for National Geodetic Survey, Bluebook Project  
**Wake County, NC** - Height Modernization Surveys for National Geodetic Survey, Bluebook Project  
**Spotsylvania County, VA** - Geodetic control for densification, mapping, and E911, Bluebook Project  
**Stafford County, VA** - Geodetic control for densification, mapping, and E911, Bluebook Project  
**Boutetourt County, VA** - Geodetic control for densification, mapping, and E911, Bluebook Project  
**King William County, VA** - Geodetic control for densification, mapping, and E911, Bluebook Project  
**Patrick County, VA** - Targeting and Geodetic control for densification, mapping, and E911  
**Saginaw County, MI** - Targeting and Geodetic control for orthophotos and GIS, Bluebook Project  
**Marion County, OH** - Targeting and Geodetic control for orthophotos, densification, and GIS, Bluebook Project  
**St. Louis Metro Sewer District** - Targeting and Geodetic control for orthophotos and mapping  
**Guilford County/City of Greensboro, NC** - Targeting and Geodetic control for orthophotos and GIS  
**Falls Church, VA** - Geodetic control for mapping, densification and GIS, Bluebook Project  
**Herndon, VA** - Geodetic control for mapping, densification and GIS  
**Harford County, MD** - Geodetic control for mapping, densification and GIS, Bluebook Project  
**Roanoke County, VA** - Geodetic control for mapping, densification and GIS, Bluebook Project  
**Clark County, OH** - Targeting and Geodetic control for mapping, densification and GIS, Bluebook Project  
**Jackson County, OH** - Targeting and Geodetic control for orthophotos, densification  
**Pike County, OH** - Targeting and Geodetic control for orthophotos, densification, Bluebook Project  
**Licking County, OH** - Targeting and Geodetic control for orthophotos, densification, Bluebook Project  
**Rapid City, SD** - Targeting and Geodetic control for orthophotos, densification



Roy Maddox, LPS - Photogrammetry Department Manager

Mr. Maddox joined Pentree, Incorporated in 1990 and serves as Photogrammetry Department Manager for the firm. In this capacity he is responsible for all aerial photography and photogrammetry projects performed by Pentree, Incorporated.

Mr. Maddox assigns scheduling and coordinates all photogrammetry projects from estimates, layouts and bids to production of aerial photography, film processing, digital conversion, data collection and drafting.

Photogrammetry projects are completed for a variety of purposes including, but not limited to:

- Mining Applications
- Industrial Development
- Subdivision Development
- Road and Bridge Construction
- Historical Preservation
- Water Projects
- Sanitary Sewer Projects
- Storm Water Studies
- Storm Water Remediation

Furthermore, Mr. Maddox is experienced in field control placement, field surveys, CAD editing, and compilation and is proficient in engineering software applications. Previously, Mr. Maddox was the aerial photographer for the firm.

**Registrations:**

Licensed Photogrammetry Surveyor, 2009  
State of Virginia

**Project Experience:**

**Various Coal Company Mapping Projects** for Permitting, Development and Reclamation – Project Manager and Aerial Photographer

**Page-Kincaid Public Service District Sanitary Sewer Upgrade and Mapping** – Project Manager and Aerial Photographer

**ICG Eastern, Lexington Coal and Arch of WV Surface Mine Updages** – Project Manager and Aerial Photographer

**Harrison-Marion Regional Airport Mapping Project** – Project Manager

**Snap Creek (Hampden) Mining, ICG Eastern Orthophotography Projects** – Project Manager and Aerial Photographer

**Cardinal Point Services 9,600 Acre Forestry Survey Photo Mosaic** – Project Manager, Aerial Photographer, Photo/CAD Technician

**Various Coal Company Monthly / Quarterly Coal Stockpile Inventories** – Project Manager, Aerial Photographer, Data Collector and Volume Calculations

**Jesse-Matheny Public Service District** – Project Manager, Aerial Photographer

**Department of Highways State of West Virginia** - Various Bridge Projects

**Department of Environmental Protection/ Abandoned Mine Lands & Reclamation** - Various AML Mapping Projects



## **Bob Holmes, LPS - Chief Photogrammetrist**

Mr. Holmes has over thirty-five years of experience in Photogrammetric mapping and related operations. He is responsible for providing mapping and detailed images for use during the planning, design and field inspection of projects. Additionally, he provides project mapping quotations and mapping system maintenance.

His experience encompasses field survey, flight planning and control scheme, analytical triangulation, aerial triangulation, orthophotographic scanning, stereo compilation, interactive graphics, drafting, digital capture and digital editing.

Mr. Holmes's knowledge spans across a variety of purposes including: transportation corridors, municipal, industrial, mining, utility, military and land development.

Mr. Holmes is proficient with various mapping software and equipment.

### **Project Experience:**

#### **Site Development Projects:**

- WVDOH District 10 Headquarters
- WVDOT Dry Run Interchange / I-81
- WVDOT Ambrose Lane
- Fountain Springs Industrial Park

#### **Surveying and Planning:**

**Town of Bluefield, West Virginia and Bluefield, Virginia**  
Mapping of Municipal Areas for Control Surveying and Area Planning

#### **Keesling Construction Company**

- Wyndale Subdivision
- Brierwood Subdivision
- Deerfield Subdivision

#### **Monthly Stockpile Mapping for Various Coal Companies**

#### **Water and Sewer Projects:**

**Eastern Wyoming Public Service District** Mullens-Wyco Water System Extension Project

**Gauley River Public Service District** Twentymile and Route 39 Water System Extension Project

**Green Valley-Glenwood Public Service District** Route 20 Sandlick Water System Extension Project

**Town of Davy** Asco-Big Sandy Water System Extension Project

**Lenowisco Public Service Association (Virginia)** Lower Birchfield Water Line Extension Project

**Various Sewer Project** - City of Oak Hill including Minden Road Treatment Plant, Rt 61 Treatment Plant and multiple collection system contracts over a twenty year period

**City of Mount Hope** Kilsythe Sanitary Sewer Line Extension Project

**Jefferson County Public Service District** County-wide Facilities Plan

**Berkeley County Public Service Sewer District** Various Projects Including Airport Communities Sewer Project, Baker Heights Wastewater Treatment Plant, and Inwood Sewer Project

#### **Education:**

- A.S. Surveying Technology , 1982
- A.S. Mechanical Design, 1968
- Certification in Photo Imagery, 1968, United States Army



## James Underwood - Photogrammetry Technician

Mr. Underwood joined Pentree, Incorporated in 2006 and serves as primary Softplotter operator for the firm. In this capacity he is responsible for providing mapping for use during the planning and design of projects performed by Pentree, Incorporated.

His responsibilities encompass digital terrain model (DTM) data collection, digital aerial triangulation, orthophoto creation, digital image editing, and control file formatting. He is also the primary photography lab technician, and is experienced in development of large-format aerial photography.

Mr. Underwood's digital data collection experience covers a variety of purposes, including: mining, industrial, municipal, and land development.

Mr. Underwood is experienced in map compilation using the Boeing/Autometric SoftPlotter system. He also has experience with Autodesk Civil 3D, Land Desktop, and ESRI ArcGIS.

### Education:

B.A. Geography, Geographic Information Systems focus – Concord University, 2007

### Project Experience:

**Twinstar Energy, White Flame Energy** Surface mine updates – DTM Data Collection, Delivery of Topographic Mapping Data

**Snap Creek** Hampden Coal update site - DTM Update of Valley Fills, Delivery of Topographic Mapping Data

**ICG Eastern** Evergreen Surface Mine updates – Creation of Orthophotos, Creation of Digital Photo Mosaic

**Consol Energy** Horsepen mapping project - Creation of Orthophotos

**Joe Miller Subdivision** Site planning project – DTM

Data Collector, Delivery of Topographic Mapping Data

**Timberwalk Subdivision** Water Project – delivery of base topographic mapping data

**Yoder Tract** Site Development Project - DTM Data Collection, Delivery of Topographic Mapping Data

**Deaver Subdivision** Site Development Project – Small-Scale Collection of Large-Scale Site, Delivery of Topographic Mapping Data

**City of Oak Hill, Wood Avenue** Site Development Project – DTM Data Collection, Delivery of Topographic Mapping Data

**Various Coal Company Monthly / Quarterly Coal Stockpile Inventories** – DTM Data Collection, Training in Volume Calculations, Development of Large-Format Aerial Photography, Control File Formatting and Updates

**Kanawha County Metro 911** Field Data Collection Project – Site Visitation, GPS Data Collection, GIS Database Editing

**Mid-Vol Leasing** Large Area Mapping of Eckman and Road Fork sites – DTM Data Collection, Delivery of Topographic Mapping Data

**Moccasin Hollow** monthly mapping impoundment site – DTM Data Collection, Delivery of Topographic Mapping Data





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# *Bid Schedule*

MAPPING SERVICES IN SOUTHERN COUNTIES OF WEST VIRGINIA  
 OPEN-END CONTRACT  
 DEP15938  
 BID SCHEDULE

The DEP reserves the right to request additional and supporting documentation regarding unit prices when the unit price appears to be unreasonable.

Item No.	Quantity	Description	Unit Price	Amount
1.0	700	2 - Man Surveying Crew (per hour)	\$ 100.00	\$ 70,000.00
2.0	225	3 - Man Surveying Crew (per hour)	\$ 110.00	\$ 24,750.00
3.0	280	Aerial Photograph Production (per sheet)	\$ 11.00*	\$ 3,080.00
4.0		Topographic Mapping from Aerial Photography (per acre)		
		(List only one rate for each category)		
	500	0 - 50 Acres (minimum charge \$750)	\$ 15.00	\$ 7,500.00
	280	51 - 100 Acres	\$ 14.25	\$ 3,990.00
	202	101 and up Acres	\$ 13.75	\$ 2,777.50
5.0		Professional Rates (Listed Disciplines Only) (per hour)		
	250	Licensed Land Surveyor	\$ 110.00	\$ 27,500.00
	1100	CAD Operator	\$ 30.00	\$ 33,000.00
	200	Draftsperson	\$ 60.00	\$ 12,000.00
	125	Secretary	\$ 60.00	\$ 7,500.00
	150	Word Processor	\$ 55.00	\$ 8,250.00
6.0		Travel and Per Diem		
	125	Per Diem (Rate/Person/Day)	\$ 30.00	\$ 3,750.00
				\$ 204,097.50

\* These are estimated quantities for bidding purposes only

\*black and White



## *Required Signature Sheets*



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

**Solicitation**

NUMBER
DEP15938

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
GUY NISBET 304-558-8802

VENDOR

RFQ COPY  
 TYPE NAME/ADDRESS HERE

SHIP TO

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

DATE PRINTED
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BID OPENING DATE: 08/23/2012

09/06/2012

BID OPENING TIME 1:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		962-52		
<p>MAPPING SERVICES FOR SOUTHERN COUNTIES OF WV</p> <p>REQUEST FOR SOLICITATION</p> <p>THE WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY WEST VIRGINIA DEPARTMENT OF ENVIROMENTAL PROTECTION'S OFFICE OF ABANDONED MINE LANDS AND RECLAMATION IS SOLICITING BIDS FROM QUALIFIED CONTRACTOR FOR AN OPEN-END CONTRACT TO PROVIDE MAPPING SERVICES IN THE SOUTHERN COUNTIES OF WEST VIRGINIA PER THE FOLLOWING SPECIFICATIONS, TERMS &amp; CONDITIONS, BID REQUIREMENTS.</p> <p>THESE MAPPING SERVICES WILL RESULT IN THE DEVELOPMENT OF CONTRACT DOCUMENTS FOR DESIGN/CONSTRUCTION PROJECTS.</p>						
<p>***** THIS IS THE END OF RFQ DEP15938 ***** TOTAL:</p>						

SIGNATURE	TELEPHONE 304-431-7800	DATE 8/31/2012
TITLE President	FEIN 55-0483692	ADDRESS CHANGES TO BE NOTED ABOVE


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

**CERTIFICATION AND SIGNATURE PAGE**

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

**Pentree, Incorporated**

\_\_\_\_\_  
(Company)

  
\_\_\_\_\_  
(Authorized Signature)

**John W. Tuggle, PE; President**

\_\_\_\_\_  
(Representative Name, Title)

**304-431-7800**

**304-425-0445**

\_\_\_\_\_  
(Phone Number)

\_\_\_\_\_  
(Fax Number)

**August 31, 2012**

\_\_\_\_\_  
(Date)

Rev. 07/12

State of West Virginia  
**VENDOR PREFERENCE CERTIFICATE**

Certification and application\* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

- 1 Application is made for 2.5% resident vendor preference for the reason checked:  
 Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,  
 Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,  
 Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
- 2 Application is made for 2.5% resident vendor preference for the reason checked:  
 Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3. Application is made for 2.5% resident vendor preference for the reason checked:  
 Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
- 4  Application is made for 5% resident vendor preference for the reason checked:  
 Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:  
 Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:  
 Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.
7. Application is made for preference as a non-resident small, women- and minority-owned business, in accordance with *West Virginia Code* §5A-3-59 and *West Virginia Code of State Rules*.  
 Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, women- and minority-owned business.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (*West Virginia Code*, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: Pentree, Incorporated

Signed: 

Date: August 31, 2012

Title: President

RFO No. DEP15938

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

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

**DEFINITIONS:**

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

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

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

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

**WITNESS THE FOLLOWING SIGNATURE**

Vendor's Name: Pentree, Incorporated

Authorized Signature: [Signature] Date: August 31, 2012

State of West Virginia

County of Mercer, to-wit:

Taken, subscribed, and sworn to before me this 31<sup>st</sup> day of August, 2012.

My Commission expires January 26, 2020.

AFFIX SEAL HERE

NOTARY PUBLIC Melise Meadows

