



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Centralized Expression of Interest
 02 — Architect/Engr

Proc Folder: 482388

Doc Description: Addendum; Camp Dawson Road Paving Design

Proc Type: Central Contract - Fixed Amt

Date Issued	Solicitation Closes	Solicitation No	Version
2018-08-24	2018-08-30 13:30:00	CEOI 0603 ADJ1900000009	2

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Name, Address and Telephone Number:

RECEIVED

2018 AUG 30 AM 10:29

WV PURCHASING
 DIVISION

FOR INFORMATION CONTACT THE BUYER

Stephanie L Gale
 (304) 558-8801
 stephanie.l.gale@wv.gov

Signature X

FEIN #

DATE

8/29/18

All offers subject to all terms and conditions contained in this solicitation

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, 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: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. 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.

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.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"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.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: CTL Engineering, Inc.

Authorized Signature: *Jan P. Lynch* Date: August 29, 2018

State of West Virginia

County of Monongalia, to-wit:

Taken, subscribed, and sworn to before me this 29 day of August, 2018.


My Commission expires August 3, 2023.

AFFIX SEAL HERE



Trish Treadwell Hines

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.


Construction Services Manager
(Name, Title)
James Gowarty Construction Services Manager
(Printed Name and Title)
1091 Chaplin Road, Morgantown, WV 26501
(Address)
304-292-1135 / 304-296-9302
(Phone Number) / (Fax Number)
jgowarty@ctleng.com
(E-mail address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

CTL Engineering, Inc.
(Company)

 James Gowarty Construction Services Manager
(Authorized Signature) (Representative Name, Title)

James Gowarty Construction Services Manager
(Printed Name and Title of Authorized Representative)

August 29, 2018
(Date)

304-292-1135 / 304-296-9302
(Phone Number) (Fax Number)

ADDENDUM ACKNOWLEDGEMENT FORM

SOLICITATION NO.:

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification. Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:


(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

CTL Engineering, Inc.

Company


Authorized Signature

August 29, 2018

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.



CAMP DAWSON
WEST VIRGINIA ARMY NATIONAL GUARD

EXPRESSION OF INTEREST
Pavement Design
CAMP DAWSON

August 30, 2018



ETL
ENGINEERING INC



EXPRESSION OF INTEREST

Pavement Design

CAMP DAWSON

Statement of Qualifications Table of Contents

- Section 1 - Overview of Firm**
 - Letter of Interest
 - Executive Summary
 - Description of Firm

- Section 2 - Project Personnel**
 - Organizational Chart
 - Personnel Matrix
 - CTL Team Key Personnel

- Section 3 - Past Performance**
 - Past Performance Matrix
 - Past Project Experience



SECTION 1 OVERVIEW OF FIRM



August 29, 2018

West Virginia Army National Guard
Construction & Facilities Management Office
1707 Coonskin Drive
Charleston, WV 25311

Attention: Dean Wingerd

Subject: Expression of Interest
Pavement Design at Camp Dawson
CTL Qualification Number: 17100125MORQUAL

Dear Mr. Wingerd,

CTL Engineering, Inc. (CTL) is pleased to submit these qualifications for Engineering Services for the West Virginia Army National Guard. Mr. Jim Gowarty, as the CTL Team Project Manager, is authorized to negotiate and commit CTL's resources for this assignment. The enclosed qualifications demonstrate the CTL Team's capabilities and experience for this project assignment.

CTL offers the following unique qualifications for this assignment:

- Established experience in providing professional engineering services for multiple projects including projects or permitting for Army Corps of Engineers, EPA, West Virginia DEP, West Virginia DOT, Ohio Department of Natural Resources, Ohio DOT, West Virginia University, West Virginia University Hospitals, Mon Health Systems, City of Morgantown, MUB and other Municipalities.
- CTL has provided engineering services for projects located in Camp Dawson, including Geotechnical Engineering and Construction Inspection and Testing.
- A proven record of over 90 years of providing engineering consulting, testing, and geotechnical engineering services for the tri state area.
- Multi-disciplined offices within the region staffed with qualified and experienced personnel. Offices in Columbus, Cincinnati, Cleveland, Akron, Ohio; Indianapolis, Indiana, Manassas, VA and Morgantown, WV available to support the project for this assignment and future needs.
- An Internet accessible, web-based reporting system that is secure and accessible 24 hours/day-7 days/week to project team members and CTL's client.
- Capability to perform in-house all the services required to complete the project. This allows CTL to be timely and efficient throughout the project.

Responsible Office

1091 Chaplin Road
Morgantown, WV

- CTL provides **Best Value** by leveraging existing resources with proven performance to achieve timely & cost effective solutions.
- Extensive capabilities & demonstrated experience in the ability to provide engineering services for a diverse cliental.
- CTL has experience working at **Camp Dawson** and has completed projects in the watershed.



CTL understands that simplicity, speed and flexibility are critical to the success of the project and we are confident that our team has the capability to bring the projects to a successful completion. We appreciate this opportunity to submit our qualifications and look forward to a favorable reply to our submittal. Please do not hesitate to call either of the undersigned at (304) 292-1135 if you have any questions or need additional information.

Respectfully submitted,
CTL ENGINEERING, INC.

James Gowarty
CTL Department Manager
Project Manager

Joseph Stanley
CTL Project Manager
Client Relations



Executive Summary

LEGAL NAME OF PROPOSER:
CTL ENGINEERING, INC.

OFFICE RESPONSIBLE FOR WORK:
1091 CHAPLIN ROAD
MORGANTOWN, WV 26501

TELEPHONE NUMBER:
PH: 304.292.1135

TYPE OF ENTITY:
Corporation

DUE DATE OF SUBMITTAL:
AUGUST 30, 2018

PROJECT MANAGER:
James Gowarty
jgowarty@ctleng.com

CLIENT RELATIONS:
Joseph Stanley
jstanley@ctleng.com

**CTL WAS BUILT ON THREE
FOUNDATIONAL PILLARS:**

- COMMUNICATION**
- TEAMWORK**
- LEADERSHIP IN TECHNOLOGY**

COMPETENCE TO PERFORM THE REQUIRED SERVICE. *CTL's goal is to show that our work is transparent and lean. We treat every project, every dollar as if it were our own because we are not a service but a business partner. Our mantra is "It is our project also".*

CTL is a multidisciplinary Consulting Firm that provides **Environmental Permitting, Environmental Design, Civil Site Design, Surveying, Construction Inspection, Materials Testing and Geotechnical** services for private development and local agencies and municipalities. Our highly qualified Team is capable of providing all the services outlined in this Request; We have a wide range of experience that can be called upon as seen fit by the client in order to deliver all projects assigned to our Team on time, within budget, and as per contract documents and specifications. Our Team possesses the depth of resources, staff and knowledge to insure quick and efficient furnishing of qualified personnel as dictated by the client's needs.

ABILITY TO PERFORM EXPEDITIOUSLY. Seamless collaboration with the Project Managers/Engineers in all Divisions is essential for project success. We understand the role and responsibilities of the project engineer, inspector and technician and will become a true extension of the client's staff. We practice partnering on all projects by engaging and communicating with all members of the project team and all stakeholders involved with the project. Our Team possesses the depth of resources, staff and knowledge to insure quick and efficient furnishing of qualified personnel as dictated by the client's needs.

LOCAL WORKFORCE. The Morgantown Office is in close proximity of the site, with some employees living or having lived in Preston County and has a local knowledge of the project site and the surrounding areas.

CLOSING. We hope this submittal gives an indication of our qualifications, experience, and abilities. You are invited to visit our office and laboratory facilities at your convenience or we are willing to meet with members of the project team so that we can further demonstrate the quality of our operation.



Description of the Firm

CTL Engineering, Inc. is a full service **consulting engineering, testing and inspection company** with a significant amount of experience in Environmental, Civil, and Geotechnical Engineering. We have over 250 employees including Registered Professional Engineers, Geologists, Metallurgists, Chemists, and a variety of Certified Engineering Technicians. CTL Engineering is qualified to provide services in the following disciplines: Civil and Municipal Engineering, Surveying, Observation and Testing of Construction Materials and Processes, Geotechnical Engineering, Environmental Services, Mechanical and Metallurgical Analysis, Non-Destructive Evaluations, Chemical Analysis, Roofing Design and Inspection, Building Envelope Evaluation, Pavement Design, Structural Steel and Product Testing.



CTL Engineering was established in 1927 and has maintained a presence within the State of West Virginia for over 30 years and throughout the State of Ohio for over 90 years. We have one of the most diverse firms in the region, a complete construction materials laboratory, a diversified local staff, and experience with large-scale local projects.

CTL Engineering operates under the guidance of our Quality System Manual, which addresses all requirements of ASTM E 329 "Standard Practice for Use in Evaluation of Testing and Inspection Agencies as Used in Construction," and AASHTO R18 "Establishing and Implementing a Quality System for Construction Materials Testing Laboratories."

CTL Engineering is regularly inspected by agencies such as the State Transportation Departments, the Cement and Concrete Reference Laboratory (CCRL) and the U.S. Army Corps of Engineers. Also, the National Institute of Science and Technology (NIST) and AASHTO accredit us in testing of concrete, soils, aggregates and asphalt.

- CTL is regularly retained to provide services for private and public entities, (**Army Corps of Engineers, EPA, West Virginia DEP, West Virginia DOT, West Virginia University, West Virginia University Hospitals, Mon Health Systems, City of Morgantown, MUB and other Municipalities**)
- CTL personnel are fully trained and equipped to perform the required task throughout the project. We have experience in **Implementing Sampling Plans, Preparing Progress Reports, and Preparing a Plan of Action.**
- CTL Engineering **emphasizes good communication and interpersonal skills** that make our personnel valuable assets
- CTL takes pride in completing projects in a **cost effective and timely manner**

- CTL provides **Best Value** by leveraging existing resources with proven performance to achieve timely & cost effective solutions.
- Extensive capabilities & demonstrated experience in the ability to provide engineering services for private and public clients.





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PAVEMENT MANAGEMENT



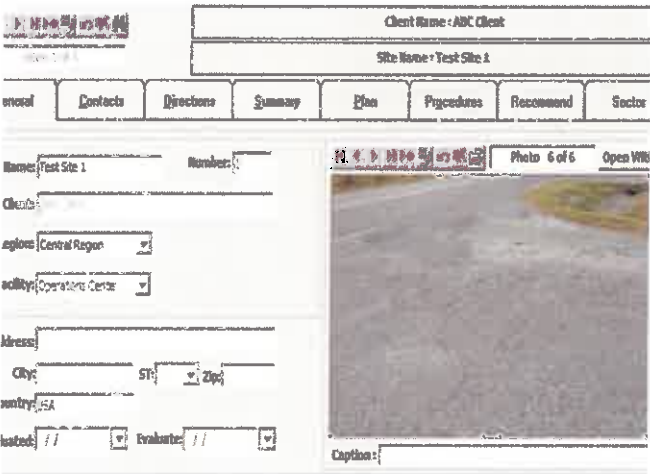
possible cost. It will allow property managers to defend budget requests accurately with credible forecasts of the consequences of a budget reduction.

Pavement Manager TM was developed by CTL Engineering and includes the following inter-related components:

- Inventory
- Condition Assessment
- Maintenance & Rehabilitation Strategies
- Prioritization
- Deterioration Rates
- Network Needs & Long Range Goals
- Budgeting (5 year forecasts)

CONTACT US:

Contact CTL Engineering for more information on our customized services to help you make cost effective decisions concerning your facility and pavement network.



CTL ENGINEERING PROVIDES A PAVEMENT MANAGEMENT SYSTEM TO ASSIST FACILITY AND PROPERTY MANAGERS AND MAINTENANCE PERSONNEL IN MAKING CONSISTENT AND COST-EFFECTIVE DECISIONS RELATED TO PAVEMENT MAINTENANCE AND REHABILITATION.

The program assists in determining the type and timing of maintenance actions for different pavement sectors. This helps to achieve the best value possible for the available funds.

In the past few years, the concept of pavement and facility management has become a major focus of many federally funded agencies through the issuance of House Bill GASB 34. Pavement ManagerTM can assist in meeting these requirements, while allowing the property manager to maintain the pavements at the highest service level and the lowest



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SITE/CIVIL ENGINEERING



SERVICES INCLUDE:

- Commercial Land Development
- Residential/Community Planning
- Infrastructure Planning and Design
- Pavement Design and Management
- Conceptual Designs/Presentations
- Recreational Resort/Facility Planning
- Erosion and Sediment Control Design
- Storm Water Management Systems
- Preliminary Cost Estimates/Feasibility Analyses
- Oil and Gas Pad and Pipeline Layout, Design, Survey, and Permitting
- As-Built Surveys and Drawings Remediation Plans for AML and Emergency Programs
- Permitting for all Project Types
- Site Development, Utilities and Appearances

CTL ENGINEERING'S IN-HOUSE STAFF PROVIDES A FULL ARRAY OF SERVICES WITH SUPPORT FROM OUR SITE/CIVIL DEPARTMENT, INCLUDING MAPPING AND SURVEYING SERVICES

FULL SITE LAYOUT DESIGN INCLUDING:

- Topographical Mapping Development
- Global Positioning Systems (GPS) Services
- Aerial Mapping Layout and Control
- Construction Layout
- Wetlands Delineation/Flood Plain Determination and Certification
- Property Survey and Boundary Determination
- Micrometer Leveling





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SURVEYING & MAPPING SERVICES



CTL Engineering maintains a full service, in-house surveying and mapping team, which has extensive experience in performing most common surveying needs.

CTL Engineering has the professional staff and the latest equipment to support eight (8) full survey crews. Our equipment includes a Global Positioning System and robotic surveying instruments which gives us an added dimension to our surveying and mapping capabilities.

We have performed surveying and mapping on many of our civil/site projects and have supplied construction stakeout and monitoring for many of our clients.

Professional Services:

- Property Surveying and Boundary Determination
- Topographic Mapping Development
- Aerial Mapping Layout and Control
- Gas Midstream Development and Construction Surveys
- Construction Layout
- Settlement Plate Monitoring
- Micrometer Leveling
- Flood Plain Determination and Certification
- Wetland Profiling

Project Synopsis

- Residential Subdivision Layout
- Commercial Development Layout
- Access Road and Parking Lot Layout
- Bridge Construction Layout and Monitoring
- Elevation Certificates (FEMA)
- Property Survey Projects
- Storm Water Surveillance Mapping
- Water Body Sounding Studies



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UNMANNED AERIAL VEHICLES



CTL ENGINEERING IS UTILIZING THE LATEST TECHNOLOGY TO REACH NEW HEIGHTS BY USING UNMANNED AERIAL VEHICLES (UAV)

Conventional inspection and surveys of property, buildings and remote infrastructure can be costly, time-consuming and even hazardous, CTL can utilize UAV technology to conduct inspections and surveys more efficiently and cost effectively, and reach areas previously difficult or inaccessible to inspectors or areas that require special equipment.

CTL Engineering's UAV services allows capture of high-definition 4k video and high-resolution images to be taken remotely. Please let us show you and you will see for yourself.



CTL ENGINEERING PROVIDES THE FOLLOWING UAV SERVICES:

- Site Reconnaissance
- Telecommunication Inspections
- Telecommunication Bird Nest Assessments
- Right-of-Way Surveys
- Construction Inspections
- Roofing Inspections
- Agricultural Surveys
- Wetland Surveys
- Invasive Species Surveys
- Aerial Photography and Videography
- Real Estate Marketing
- Low Impact Wildlife Surveys



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ENVIRONMENTAL SERVICES



In-Situ Remediation



Underground Storage Tank Removal



Invasive Species Control



Friable Asbestos Pipe Insulation



Cellular Tower Site Assessment



Wetland/Stream Mitigation & Monitoring

▶ **CTL has been providing Environmental Services since 1987 and has successfully completed over 7,100 projects of varying complexities for a diversified clients.**

Our clients includes Governmental agencies, Universities, Private Banks, Developers, Communication Tower, Pipeline and Oil & Gas Exploration Companies, etc. Our years of experience have made us aware of the regulatory and technical challenges our clients face when environmental issues arise.

Our clients have come to appreciate our ability to balance regulatory requirements while maintaining projects' feasibility and continuity. With multiple office locations and a knowledgeable staff of geologists, environmental scientists/engineers, wetland scientists, industrial hygienist, and certified HazMat professionals, we can provide a diverse range of environmental services to our local and regional clients. Whether our clients need a Phase I ESA or a full-scale remediation project, CTL Engineering's Environmental Department is the single source for your environmental needs.

Additional Environmental Related Services:

Real Estate Related Services

- Phase I and II ESA's
- Transaction Screenings
- FCC/NEPA Section 106 Reviews

Building Evaluation Services

- Asbestos Hazard Evaluations
- Asbestos Abatement Design/Monitoring
- Lead-Based Paint Surveys
- Indoor Air Quality Assessments
- Mold Testing and Remediation

Ecological Services

- Stream, Wetlands & Jurisdictional Waters of the U.S. - Assessment & Delineation
- 404/401 Wetland Permitting
- Wetland/Stream Mitigation and Monitoring
- Threatened & Endangered Species Habitat Research and Surveys

Underground Storage Tank Services

- UST Removal & Closure
- BUSTR Tiers 1, 2 & 3 Evaluations
- Remedial Investigations and Corrective Actions

Geophysical Surveys

- Ground Penetrating Radar (GPR) survey to detect utilities and orphan USTs
- Resistivity Testing of soil for grounding system designs.

Hydrogeologic Services

- Soil Borings & Subsurface Evaluations
- Ground Water Investigations
- Monitoring Well Installation
- Soil & Ground Water Remediation
- Groundwater Mapping/ Modeling
- Storm Water Pollution Prevention Plans (SWPPP) Preparation, Design, and Inspections

Permitting/Compliance

- NPDES Permitting Support
- Solid-Waste Landfill Permitting
- Permit to Install/Operate (PTI & PTO)
- Compliance with Permit Conditions

Waste Management Services

- Hazardous & Non-Hazardous Waste Characterization and Disposal
- Spill/ Discharge Response Plans
- Effluent Sampling & Analysis
- RCRA Planning and Closure
- Spill Prevention Control & Countermeasure Plans (SPCC)

Transportation Related Services

- Environmental Screening
- CE Documentation Preparation
- BUSTR Site Assessment
- Ecological Investigations

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GEOTECHNICAL SERVICES

CTL ENGINEERING'S GEOTECHNICAL DEPARTMENT ROUTINELY PERFORMS SUBSURFACE INVESTIGATIONS, SOIL AND ROCK TESTING. WE PREPARE ENGINEERING REPORTS, MAKE RECOMMENDATIONS REGARDING FOUNDATION AND CONSTRUCTION TECHNIQUES AND PERFORM OTHER GEOTECHNICAL SERVICES AS DICTATED BY A GIVEN PROJECT.

DRILLING SERVICES:

CTL Engineering owns and operates its own fleet of drill rigs. Our rigs are capable of Hollow Stem Augering, Rotary Core Drilling and Direct Push Sampling. CTL is able to perform in-house energy transfer calibrations on all of its automatic drive hammers. In fact, CTL calibrates many of our competitors' drive hammers as well.

CTL has continuously owned and operated drilling equipment since the 1970's. We have the equipment and experience to perform just about any geotechnical or environmental drilling project you may have.

ANALYTICAL LABORATORY:

Our soils laboratory has been accredited by AMRL since 1999. The lab has consolidometers, triaxial and direct shear apparatus, permeability devices, soil compaction, soils classification equipment and other laboratory testing equipment. We routinely perform testing on undisturbed, as well as remolded soil samples. We also provide strength and durability testing services on rock samples.

GEOTECHNICAL SERVICES:

- Complete Subsurface Exploration Study
- Foundation Analysis
- Pile, Pier and Caisson Analysis and Inspection
- Embankment and Earth Dam Analysis
- Slope Stability Analysis
- Settlement Analysis
- Pavement Design
- Rock and Mineral Testing
- Hydrogeologic Studies
- Field and Laboratory Testing of Soils/Rock
- Legal Testimony
- Dynamic Pile Testing

CTL ENGINEERING ROUTINELY PROVIDES SUBSURFACE INVESTIGATIONS ON THE FOLLOWING:

- Roads and Bridges
- Airport Terminals, Runways and Taxiways
- Water/Wastewater Treatment Facilities
- Hospitals, Parking Garages, Higher Education, and PK-12 School Facilities
- Energy Facilities
- Telecommunication Towers
- Commercial, Retail, and Industrial Facilities





CTL Engineering has a solid working knowledge of the West Virginia Building Code with respect of Chapter 17, Structural Tests and Special Inspections

We routinely perform these services on many building construction projects. We also communicate regularly with key officials of the Division of Industrial Compliance, Board of Building Standards and Bureau of Building Code Compliance regarding the specific implementation and enforcement requirements of the Code.

A project's construction phase requires reliable testing and inspection services. Building owners, architects, engineers, and contractors choose CTL Engineering for this work, knowing that we are accurate, dependable, and perform our services in a timely manner.

CTL Engineering examines existing structures to evaluate potential problems. Failed structures are analyzed to determine the cause and extent of damage. We evaluate structural integrity during initial construction and at regular intervals after completion. CTL Engineering routinely evaluates metal and concrete pipes.

We perform audio/video surveys, sonic velocity testing, x-ray examinations, half-cell potential, and other destructive and nondestructive tests.

CTL Engineering provides testing and inspection of the following:

- Sitework
- Foundations
- Air Barrier Testing
- Reinforced Concrete
- Structural Steel
- Masonry
- Sprayed-on Fire Proofing
- Roofing Systems
- Single & Multi-Story Building Structures
- Bituminous & Portland Cement Concrete Paving
- Highway and Airport Pavements
- Parking Garages & Bridges
- Water & Wastewater Treatment Facilities & Associated Piping Systems

CTL Engineering's technicians maintain the following certifications and/or training:

- ACI (American Concrete Institute) Level I
- NICET Certification, Level I, II, III, or IV
- Hazardous Materials Certification
- Confined Space Entry Training
- Radiation Safety Training
- WVDOT, ODOT, and NCDOT Certification





SECTION 2 PROJECT PERSONNEL



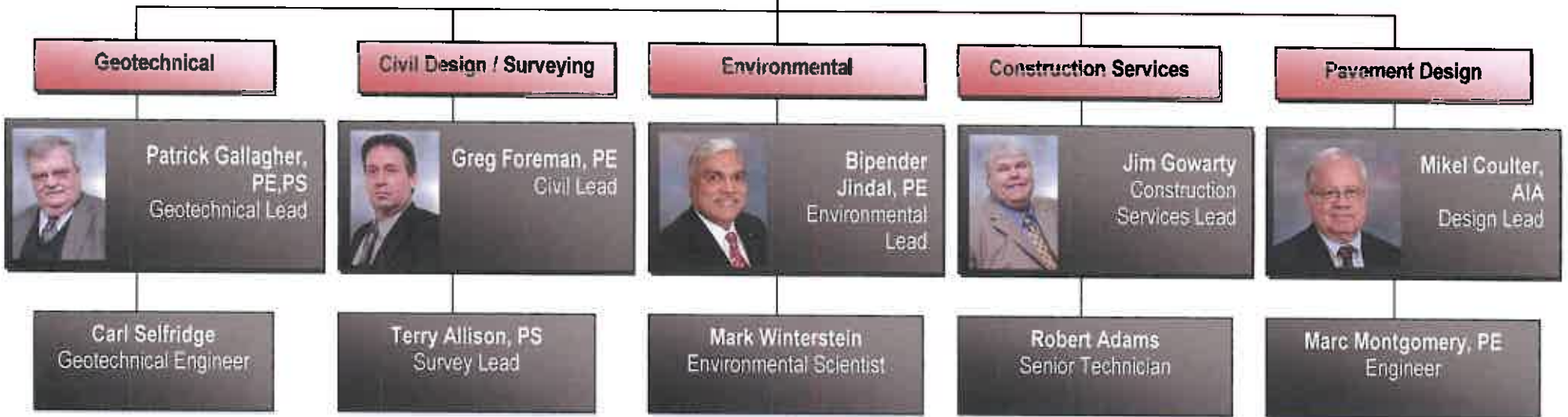
CTL TEAM ORGANIZATION



CAMP DAWSON WEST VIRGINIA ARMY NATIONAL GUARD



Jim Gowarty
Project Manager



**CTL Team Key Personnel / Experience**

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ASSOCIATE RESUME



Mr. James P. Gowarty, Jr.
Manager
 Construction Services Department

As the Construction Services Manager for CTL Engineering of West Virginia, Inc., Mr. Gowarty is responsible for supervising field and laboratory technicians. He is also responsible for writing reports for field and laboratory testing, project management, client contact, estimating, proposals, and invoicing for the Construction Services Department. Mr. Gowarty's experience also includes surveying, pre-mining and pre-blast surveys, field supervision of drilling crews, Phase I Environmental Site Assessments, and radiation safety officer as well as corporate safety officer. In addition, Mr. Gowarty is the Construction Materials Testing Supervisor; providing concrete, compaction, and aggregate testing. He has over twenty five (25) years of experience with Nuclear Gauge Operation.

Mr. Gowarty has been CTL's Corporate Safety Officer since the Fall of 2008. Mr. Gowarty is also CTL's USNRC Safety Officer.

Education

B. S. Civil Engineering Technology
 Fairmont State College, Fairmont, West Virginia 1990
 A.S. Mechanical Engineering Technology
 Fairmont State College, Fairmont, West Virginia 1990

Professional Registration / Certification**Safety**

- Radiation Safety Training, *CPN Corporation*
- Radiation Safety Officer Training, *Troxler Electronics*
- Principals of Fire Protection, *Fairmont State University*
- Certified Forklift Trainer, *Brickstreet Insurance*
- Drug Free Workplace Employee Trainer, *Working Partners*
- Drug Free Workplace Supervisor Trainer, *Working Partners*
- OSHA 10 hr Construction Safety and Health

Other

- Transportation Engineering Technician Level V (TRET Level V)
- West Virginia DOT Certified Compaction Technician
- West Virginia DOT Certified Bituminous Concrete Technician
- West Virginia DOT Certified Portland Cement Concrete Technician
- West Virginia DOT Certified Aggregate Sampler
- NICET Level III Asphalt & Concrete
- NICET Level II Soils
- Certified Dipfloor Profiler Operator, *Face Company*

CTL project Experience**Energy**

Harrison Step II - Construction Monitoring, Harrison County, West Virginia

Energy (continued)

Harrison Power Station CCB Landfill Phase V Step III, Harrison County, West Virginia

Leer Mine Complex, Taylor County, West Virginia

Tunnel Ridge Coal, Ohio County, West Virginia

Refuse Testing, Ohio County, West Virginia

Longview Conveyor, Monongalia County, West Virginia

Building Development

University Place, Morgantown, West Virginia

Downtown Panera Bread, Morgantown, West Virginia

Hazelton Federal Correctional Institute, Hazelton, West Virginia

U.S. Department of Energy Facility, Morgantown, West Virginia

Morgan Place Development, Morgantown, West Virginia

Mountain Valley Apartments Phase II, Morgantown, West Virginia

Education

Central Preston Middle School, Preston County, West Virginia

East Preston School, Preston County, West Virginia

Bruceton Mills School, Preston County, West Virginia

Morgantown High School Football Stadium, Morgantown, West Virginia

New University High School – Construction Services & Grout Plan, Morgantown, West Virginia

West Virginia University Animal Facility Annex, Morgantown, West Virginia

West Virginia University Advanced Engineering Research Building-Construction Services, Morgantown, West Virginia

Alderson-Broadus College New Football Field-Surveying & Material Testing Services, Barbour County, West Virginia

Transportation

I-81 Martinsburg to Marlow Interchange, Martinsburg, West Virginia

Mileground Roundabout, Morgantown, West Virginia

Fairmont Airport, Fairmont, West Virginia

Jackson County Airport, Jackson County, West Virginia

Municipal Infrastructure

Water Treatment Plant Correctional Action Design, Marion County, West Virginia

Water Treatment Facility Expansion, Morgantown, West Virginia

Mike Coultter, AIA

Roof & Building Envelope Engineering Department



Mr. Mikel Coultter, AIA, is an Ohio registered Architect working in the roof engineering and building envelope consulting department at CTL Engineering Inc.'s corporate headquarters in Columbus, Ohio. Responsibilities include marketing, project management, and construction administration.

Other primary responsibilities include: Property Condition Assessments (PCA) including site evaluation and design remediation, building envelope audits, investigations and trouble shooting for roof systems, waterproofing, wall components and windows/doors. He is also involved with construction bid document preparation and commissioning. More specifically, assistance in specification writing, project detailing, construction budgeting, bid procedures, project administration, owners representative, contractor payment authorization and construction inspections.

Since 1982 Mr. Coultter has been involved in conditional Property Condition Assessments as a part of renovation and expansion projects on an as requested basis. Such PCA's have included commercial properties including parking lots and site evaluations, tenant lease space, warehouse facilities, medical office buildings and hospitals. As an architect doing renovation and building expansions he has done these types of assessments before a building has been purchased and for owner occupied buildings to determine the condition of buildings before detailed plans were developed or considered to be developed. As part of this work, preliminary budgets are created both for short term fixes as well as forecasting budgets into the future for Capital Project Budgeting over a period of time.

Mr. Coultter continues his education in the building envelope field by attending symposiums, seminars, and technical classes for roofing and building envelope issues related to cause of failures, current design criteria, wind loading, drainage, etc. Mr. Coultter stays abreast of current code, Factory Mutual, ANSI/SPRI, UL and other associated requirements for proper design. In addition, Mr. Coultter participates in continuing education classes offered by the American Institute of Architects as related to building constructability, LEED, "GREEN" building design and construction material evaluation.

EDUCATION

University of Houston, Bachelor of Architecture, 1981

PROFESSIONAL REGISTRATION / CERTIFICATION

Registered Architect, State of Ohio, 1982

Certified by National Council of Architectural Registration Boards (NCARB), 1988

PROFESSIONAL REGISTRATION / CERTIFICATION CONTINUED

American Institute of Architecture, (AIA – Local, State and National Chapters)

National Council of Architectural Registration Boards (NCARB)

International Code Council

CTL PROJECT EXPERIENCE

CTL ENGINEERING OF OHIO, INC., COLUMBUS, OHIO (JULY 2008 – CURRENT)

Mr. Coultter is the In-house Architect responsible for evaluating building sites as well as building roofs and exteriors to determine remedial work required to repair water leaks and air infiltration. Projects have included single residential home, a 175 unit Condominium project, medical office buildings, Universities, office/warehouse facilities, and the Worthington Library system.

PROPERTY CONDITION ASSESSMENT EXPERIENCE

Huntington National Bank

Easton Towne Center Parking Lot Expansion

Morse Road Parking Lot Analysis

UPS Newark Parking Lot Expansion

Department of Rehabilitation and Correction

Rickenbacker Air National Guard Facilities

UPS, Satellite Facility Percolation and Foundation

Ohio Facilities Construction Commission, Statewide Facilities Assessments

All-State Industries

Ball Metal Food Container Corporation

ETI Corporation

Northwest Psychiatric Hospital, State of Ohio, Toledo, Ohio

Nationwide Children's Hospital, Columbus, Ohio

Central Energy Plant

Inpatient Units

Radiology Department

Senior Administrative Office Suite

Children's National Medical Center, Washington, D.C.

Administrative Support Office Wing

Outpatient Clinics in Washington, D.C., Northern Virginia, Maryland

Marc Montgomery, P.E.
Manager, Construction Services Department



Mr. Marc Montgomery, P.E. has been a CTL Engineering employee since the late 1980's with experience in the quality control testing and construction inspection field. He is responsible for the supervision, coordination, reporting and consultation of construction testing and inspection related services. These responsibilities include reviewing of project plans and specifications prior to

the start of work, assigning appropriate technicians to projects, training of technicians, and summarizing and reporting of data collected by the technicians. Mr. Montgomery also performs in-field permeability testing such as Boutwell permeameters and Sealed Double Ring Infiltrimeters (SDRI), pile load testing of deep foundations as well as failure investigations or condition assessments for various materials and building systems.

Mr. Montgomery also is an adjunct professor at Columbus State Community College teaching construction material testing and construction methods classes.

EDUCATION

B.S.C.E., Construction Management and Geotechnical Engineering
The Ohio State University, Columbus, Ohio, 1993

PROFESSIONAL REGISTRATION / CERTIFICATION

Registered Professional Engineer, State of Ohio
Concrete Technician Certification per ACI Level I Requirements - ORMCA
Nuclear Densometer Certification per USNRC Requirements - CTL Engineering, Inc.
Reinforced Concrete Special Inspector - ICC
ODOT Level I Asphalt Technician Certification - Ohio Department of Transportation (Inactive)

CTL PROJECT EXPERIENCE

PAVEMENT MANAGEMENT

BMW Financial Services Facility Pavement Improvements; Hilliard, Ohio

Professional Engineer responsible for the oversight of the visual pavement evaluations and pavement coring to determine the level of deterioration. Scope of services also included pavement maintenance and repair recommendations, and development of site plan drawings, specifications, and bid documents for construction.

NDC Warehouse Pavement Improvements; New Concord, Ohio

Professional Engineer responsible for the oversight of the visual pavement evaluations and pavement coring to determine

the level of deterioration. Scope of services also included development of pavement rehabilitation recommendations, development of site plan drawings used during construction, and testing and inspection services during construction.

Eddie Bauer Pavement Conditions Survey; Groveport, Ohio

Professional Engineer responsible for the oversight of the visual pavement evaluations to determine the level of deterioration, development of site improvement recommendations and maintenance plans.

Dublin City Schools Pavement Evaluations; Dublin, Ohio

Project Manager responsible for the visual pavement evaluations and pavement coring to determine the level of deterioration. The project consisted of 4 Elementary Schools, 2 Middle Schools, 1 High School, 1 Administrative Building, and the Track.

Wal-Mart Pavement Evaluations; Various Locations

Project Manager responsible for the visual pavement evaluations to determine the level of deterioration at the various Wal-Mart locations.

Gregory Foreman, P.E. | Project Engineer**Education:** B.S. Civil Engineering**Professional Registrations:** Professional Engineer, WV, PA

Summary: Mr. Foreman will be the Design Lead for the project. Mr. Foreman has been with CTL Engineering for more than 10 years and has served as Project Manager and Design Engineer for a multitude of design projects for municipal, commercial, and private developer clients. He has over 25 years of experience with consulting engineering organizations. Prior to joining CTL, Mr. Foreman's career involved project engineering roles for Horner Brothers Engineers and Greenhome & O'Mara. Mr. Foreman's experience includes roadways and streets including design, permitting, bid package development, and construction oversight.

**Relevant Project Experience**

Mr. Foreman's experience includes municipal infrastructure, commercial development, roadways, streets including design, permitting, bid package development, and construction oversight. Representative experience includes:

- University Place – Civil Site Lead – 4 Block Student Housing P3 Project – Morgantown, WV.
- SC Bodnar Residence – Sunnyside- PM – All Civil Site Development
- The Reserve – Residential Community Development – PM – Berkeley Springs, WV.
- Woodford Oil – Morgantown – Bulk Oil Plant Facility – PM – All Civil Site
- Mount Morris Municipal Authority, Pennsylvania. Lead engineer for design of sewer system remediation design
- Fairview, West Virginia. Project engineer for improvements within WVDOH right of way.
- Star City, West Virginia. Project Engineer for Industrial Avenue and Boyers Avenue Streetscapes. Effort involved design site evaluation, utility relocation and removal, preparation of specifications and construction bid packages.

Tim Darrah | Civil/Site and Surveying Department Manager**Education:** B.S. Civil Engineering

Summary: Mr. Darrah will serve as the project manager for CTL. Mr. Darrah is presently responsible for department management for municipal engineering, civil site design and surveying projects including topographic, property and construction layout. Mr. Darrah also serves as project manager on various types of civil engineering projects including water, sewer and stormwater designs as well as residential, commercial developments and reclamation design projects. Office work includes site designs, hydrology calculations, quantity calculations, and various other forms of engineering related duties.

**Relevant Project Experience**

- Maple Drive WVDOH road design and utility relocations.
- Scotts Run Water Line, Wiles Hill Tank & MUB Access Road Survey-Surveying & Layout. Morgantown, W.V.
- Linwood Street Stormwater-Stormwater System. Morgantown, W.V.
- Dorsey Knob Public Services District As Built Survey-Surveying Services. Morgantown, W.V.
- WVUH Stormwater Analysis-Stormwater Analysis. Morgantown, W.V.
- Mon General Hospital Development-Site Design. Morgantown, W.V.
- Fairmont (Jackson Addition) Subsidence Project-AML
- Reclamation, Subsidence Investigation & Geotechnical. Marion County, W.V.
- University Place-Geotechnical, Surveying, Civil Site & Environmental Services. Morgantown, W.V.
- University Park-Geotechnical, Surveying & Civil Site Services. Morgantown, W.V.
- Pee Wee Hill Water Line Design, Kitzmiller, MD
- Farmington Box Culvert, Stormwater & Hydraulic Modeling. Farmington, W.V.
- Farmington Floodplain Expansion, Stormwater, Hydraulic Modeling and Floodplain Analysis, Farmington, W.V.
- Harvest Ridge Subdivision, Sewer, Water and Stormwater Design & WWTP. Morgantown, W.V.

Patrick E. Gallagher, PE, CPGS | Quality Assurance**Education:** B.S. Civil Engineering, Minor in Geology**Summary:** Mr. Gallagher will serve as the quality assurance lead for the project. Mr. Gallagher is President of CTL Engineering of WV, Inc. In 30+ years at CTL, Projects successfully completed under Mr. Gallagher's direction include: Civil Site Design, Foundation Design, Stormwater Management, Waste Water Design, Roadway Design, Parking Lot Design, Geotechnical Investigations & Design, Site Stability Analyses, Mine Subsidence Evaluations, sinkhole remediation, Failure Investigations and Environmental Investigations and Expert Witness Testimony.**Relevant Project Experience**

- I-79 Interchange Morgantown – Geotechnical Project Manager on this Design Build to the Town Centre.
- Mon General Site Development-Site Design. Morgantown, W.V.
- Ambulatory Care Center-Project Manager - Morgantown, W.V.
- Grand Central Apartments-Geotechnical Services. Morgantown, W.V.
- Gateway Development-Site & Civil Services. Morgantown, W.V.
- Federal Correctional Institute-PM- Various Civil Services. Hazelton, W.V.
- Mr. Gallagher has been involved in numerous Failure Investigations and Forensic Projects over the past 40 years. He has been approved as an expert in the areas of Foundation Failures, Blasting, Flooding, Slope failures, Construction Defects, Structural, and Residential Construction Defects.

Bipender Jindal, P.E., C.P. | Project Engineer/Certified Professional**Education:** B.ChE.in Chemical Engineering; B.Sc. in Biological Sciences**Summary of Experience:** Mr. Jindal is the Director of Environmental Services for CTL, with over 30 years of experience in providing and managing Environmental Site Assessments (ESAs), Hazardous Waste Management, UST Services and other aspects of environmental services. Mr. Jindal's innovative approach to project management has resulted in substantial cost savings for clients. Under Mr. Jindal's management, CTL's execution of ESAs for all the ODOT roadway improvement projects, ODOT rest areas, and the Nelsonville By-Pass project were completed on time and under budget. In addition, 99% of CTL's ODOT District 3 and 6 task order projects were completed on time and under budget.

In 2007, Mr. Jindal obtained accreditation as an Asbestos Project Designer in the State of Ohio and completed abatement project designs for the Ohio State University and Kent State University projects. As a Certified Professional under the Ohio EPA's VAP, Mr. Jindal has conducted VAP compliant Phase I & II ESAs, including remediation and has issued one No Further Action (NFA) letter and obtained Covenant Not to Sue (CNS). Mr. Jindal has experience with in-situ & Ex-situ treatment of organic/petroleum contaminated soil & groundwater & has completed several projects successfully.

Relevant Project Experience**Davis Wince Architects, Ltd; Columbus, OH; 2007**

Conducted site visit for developing the hazardous material survey plan for the OSU Jones Graduate Tower Renovations project.

Braun & Steidl Architects, Inc., Columbus, OH 2007-2008

Managed the hazardous material survey for the abandoned City of Columbus water treatment laboratory facility.

Harris Design, Columbus, OH; 2008

Conducted site visit for developing the hazardous material survey plan for the former City of Columbus Police Building renovation project.

Davis Wince Architects, Ltd; Columbus, OH; 2006-2008

Conducted hazardous material survey for the former 6-story, Ohio Department of Job and Family Services Building.

Terrence Allison PS | Survey Lead**Education:** A.A.S. Surveying & Construction Technology, A.A.S. Computer Technology**Registration:** Licensed Surveyor in West Virginia and Ohio

Summary: Mr. Allison has over 35 years of all types of surveying in West Virginia, around the country and around the world. He is responsible for the supervision, coordination, reporting and consultation of land surveying and construction surveying related services. These responsibilities include reviewing of the scope of work, project plans and specifications prior to the start of work, assigning appropriate field crews and cad personnel to projects, reviewing all field and office work for the project and delivering the final plats, deeds and other surveying products requested. Mr. Allison has been the project manager on a variety of surveying projects that include, but are not limited to boundary and topographic surveys, municipal infrastructure and park surveys, oil and gas well plats and design surveys, FEMA LIDAR check surveys, cell towers, subdivisions, site developments, roads, bridges, sewers and other utilities, flood control studies, and construction layout for major buildings, roads, and bridges.

**Carl Selfridge | Geotechnical Engineer****Education:** B.S. Civil Engineering Technology

Summary: Mr. Selfridge will serve as a geotechnical engineer and provide geotechnical oversight and review for the project. Annually manages 100+ various geotechnical projects including; education, transportation, commercial development and a variety of public and private clients. Mr. Selfridge is responsible for directing all aspects of the Geotechnical Engineering Department for CTL Engineering of West Virginia, Inc.

This includes the management of field drilling activities, field classification of soil and rock, field and laboratory safety procedures, the assignment of a laboratory testing program, and performing geotechnical evaluations. Engineering evaluations include foundation recommendations, settlement analysis, slope stability analysis, earth pressure coefficients and report preparation.

Relevant Project Experience

Water Treatment Plant Corrective Action Design-Geotechnical Services. Marion County, W.V.

Benedum Airport Towers-Geotechnical Services. Harrison County, W.V.

I-81 Martinsburg to Marlowe Interchange-Design Build. Jefferson County, W.V.

Oak Valley Garden Apartments-Geotechnical Services. Gilmer County, W.V.

West Minister Apartments: Phase I & II-Civil Site, Environmental, Geotechnical & Surveying Services. Jefferson County, W.V.

University Place-Civil Site, Environmental, Geotechnical & Surveying Services. Morgantown, W.V

WVU Stewart Hall Retaining Wall-Geotechnical Services. Morgantown, W.V.

**Robert Adams | Senior Technician****Education:** Salem College

Summary of Experience: Mr. Adams serves as Lab and Field Manager for the Morgantown, WV office. He is Senior Engineering Technician responsible for performing AASHTO and ASTM tests on soil and concrete including gradations, proctors, sieve analysis and compressive strength tests. Mr. Adams also serves as our primary mentor on the training of our new technician staff. In addition, Mr. Adams is our primary technician for commercial and WVDOH Projects, performing field nuclear density testing on highways and bridges throughout West Virginia.

Relevant Project Experience

- Benedum Airport, Bridgeport, WV
- Fairmont Airport, Marion County, WV
- Dunkard T-Beam Bridge, Monongalia County, WV
- Star City Bridge, Morgantown, WV
- WV Department of Highways, Numerous Projects throughout WV
- Harrison Power Station Phase V Step 1, Harrison County, WV
- Point Marion Lock & Dam Project, Pt. Marion, PA



**Hassan Zahran, P.E. | Construction Administrator/Engineer****Education:** B.S. Civil Engineering**Professional Registrations:** Professional Engineer, State of Ohio
ODOT Construction Engineer, Level 2 (pending)

Summary: Mr. Hassan will serve as a senior engineer for construction management for the project. He will provide strategic project input as needed and peer review for key design and bidding documents. He has 30+years of experience in managing complex construction projects working for the City of Columbus and Ohio Department of Transportation (ODOT, D-06). Hassan has experience with all facets of construction administration ranging from the jobsite documentations, inspection of work and materials (PBOM), dispute resolution, investigating and mitigating contract claims, analyzing CPM schedule (P-6), contract interpretation issues as well as a thorough understanding of ODOT specifications, policies and procedures.

Relevant Project Experience

Mr. Zahran has experience with a number of roadway projects that included sewer upgrades as part of the scope including: 2012 Bicentennial Construction Program, Downtown City of Columbus; Parsons & Livingston Improvement Streetscape Gateway Project; Hard Road Phase Improvement (PH A, B & C); Joyce Avenue Improvements corridor. Mr. Zahran has experience on the following sanitary/stormwater/water main projects: Third Ave Sanitary improvements (PART-1); East 25th Ave/Joyce Ave Stormwater Improvements; Idlewild Drive Stormwater System Improvements; Stafford/Union Area Stormwater and Waterline improvements; Maryland Ave/Denver Ave Stormwater improvements; Marion Rd and Lockbourne Rd Stormwater System Improvements; Barthman/Parsons Integrated Solution, PH-1; Compost Facility Stormwater Diversion Swale Improvements; Kinnear Road Area Water Main Improvements; Sexton Area Water Line improvements; Johnstown Road Area Water Line Improvement; Innis Area Waterline Improvements.



SECTION 3 PAST PERFORMANCE

**Camp Dawson Project Experience**

YEAR	CTL DEPARTMENT	CLIENT	PROJECT DESCRIPTION	CTL PM
2015 / 02	Const. Services	COOPER CONSTRUCTION	LIVE FIRE EXERCISE BREECH SITE - CAMP DAWSON	GOWARTY
2009 / 02	Const. Services	AMEC EARTH & ENVIRONMENTAL, INC.	CAMP DAWSON	GOWARTY
2009 / 05	Geotechnical	COASTAL DRILLING	CAMP DAWSON	SELFRIEDGE
2008 / 05	Geotechnical	K-CON, INC.	CAMP DAWSON	SELFRIEDGE
2004 / 02	Const. Services	WVARNG - CAMP DAWSON	BILLETING FACILITY	GOWARTY
2002 / 02	Const. Services	MEC	CAMP DAWSON ROAD	GOWARTY
2002 / 05	Geotechnical	ALPHA ASSOCIATES	CAMP DAWSON BILLETING FACILITY	
2001 / 02	Const. Services	LAURITA EXC	CAMP DAWSON	GOWARTY
2000 / 02	Const. Services	MOUNTAINEER	CAMP DAWSON	GOWARTY
1998 / 02	Const. Services	MCCOURT & SONS	CAMP DAWSON	GOWARTY

Past Project Experience

Project: Easton Towne Center Parking Lot Analysis and Expansion Design

Client: Huntington National Bank

Contact: Ms. Gail Hausfeldt

Phone: (614) 480-6070

Location: Columbus, Ohio

Project Description: In 2013 CTL was retained by The Huntington Bank to review the existing parking conditions at the Easton Office Center to see what improvements could be made to gain additional parking spaces.

CTL took two approaches, the first was to evaluate the existing parking lots on the east and west lots and see what could be done to gain additional spaces. CTL spent an afternoon surveying both areas confirming the existing layout of each. With that information CTL then created options for gaining spaces by restriping the spaces to provide for an 8'-6" parking space in lieu of 9'-0". In addition, CTL also recommended adding parallel parking spaces to at the exit/entry drive.

The second approach was to add a new parking at the green space on the east side. This lot was constructed and added 144 parking spaces. A second new parking lot addition was designed on the west side and was presented to The Steiner Group for review but was not approved for construction. It would have added an additional 19 parking spaces.



Project: Ohio Department of Transportation: Facility Assessments

Client: Ohio Facilities Construction Commission

Contact: John McCreedy

Location: ODOT District 6 & 7, Ohio

Project Description: The State Architect's Office retained CTL Engineering in 2012 to perform facility and site assessments at 18 different sites totaling 406,455 sf for the Department of Transportation, Districts 6 & 7. Each facility included both building and site evaluations. Building Assessments were to document existing conditions and make recommendations for future maintenance, repair and possible replacement. CTL was also to look for Building Code Compliance specific to Health/Life and Safety and ADA concerns at building entrances and restroom/locker spaces. Site conditions including sidewalks, site drainage and parking lots were evaluated in terms of physical conditions, ADA, life cycle longevity and do existing configurations make sense.

Each item reviewed was to be ranked priority 1-5, 1 being Critical, 2 being potentially critical – year one, 3 being necessary in 2-5 years, 4 being recommended in 6-10 years and 5 being Life Cycle Replacement. Budgets were also required to be prepared. Annotated photographs were also to be included in each facility report.



Project: Rickenbacker Air National Guard Facility Assessments**Client:** Ohio Facilities Construction Commission**Contact:** John McCready**Location:** Columbus, Ohio

Project Description: The State Architect's Office / Adjutant General's Office, retained CTL Engineering in 2012 to evaluate 13 sites and facilities located at the Rickenbacker Air National Guard base in Columbus, Ohio. Included as part of the project was a review of the site around each building to document condition of concrete sidewalks and asphalt parking lots. As part of the evaluations, CTL was to rate each facility for 10 categories and prepare estimated repair costs for each category as well as an overall estimated project cost for each of the 13 facilities. Each category had to be further evaluated on a Priority Basis as to projects that could be completed in 6 years or more, projects completed in 3-5 years and projects that needed to be completed in 0-2 for components that were near or past their expected useful life. The data gathered into a project specific spreadsheet provided by Mr. James Penn, Ohio Air National Guard. Annotated photographs were also to be included in each facility report.

**Project:** Dublin City Schools Pavement Rehabilitations**Client:** Dublin City Schools**Contact:** Mr. Brion Deitsch**Phone:** (614) 764-5913**Location:** Dublin, Ohio

Project Description: In 2015 and in 2016, CTL was contracted by the Dublin City Schools to provide a current pavement condition using visual survey and coring observations in order to help them evaluate what approaches may be used to repair the conditions in the selected pavement areas at a total of 10 different property sites with the school district.



The evaluation consisted of a visual survey of the pavement surface and core extractions of the asphalt and base materials for selected driveways, parking lots, and a tennis court at the property. Based on these findings, we made recommendations for repair or replacement.

Project: Maple Drive Widening**Client:** Mon Health Systems / WVDOT**Contact:** Ed Phillips**Phone:** (304) 598-1404**Location:** Morgantown, West Virginia

Project Description: CTL Engineering, Inc. was responsible for design and permitting of the Maple Drive widening project. CTL was retained to develop plans and specifications in coordination with the WVDOT to widen 1,400 feet of the existing Maple Drive from a narrow two lane road to a 22' road with a sidewalk. The project also included a new stormwater system and the coordination and design for the relocation of all existing overhead utilities to underground. CTL also provided documents and staff support throughout the bidding process.



Project: University Place
Client: West Virginia University
Contact: James Brown, General Contractor
Phone: (304) 363-4500

Location: Morgantown, West Virginia

Project Description: The project consisted of the design and construction of a new student housing complex for the growing West Virginia University student population. Project is a Public/Private Partnership between the Developer and West Virginia University and is located on University Avenue in the Sunnyside area. CTL was retained to provide the full asbestos evaluation of 22 structures & demolition plan, the geotechnical Analysis & Foundation design. CTL was also responsible for the stormwater management planning including bio-retention cell sizing and installation, utility coordination with local providers and construction observation including caisson inspections, concrete and compaction testing and structural steel inspection.



Project: University Park
Client: Paradigm Architecture
Contact: Paul Walker
Phone: (304) 284-5015

Location: Morgantown, West Virginia

Project Description: The project consisted of the design and construction of a new student housing complex for the growing West Virginia University student population. Project is a Public/Private Partnership between the Developer and West Virginia University and is located off University Avenue in Evansdale. CTL was retained to provide surveying, site grading & design, street annulments and relocation, geotechnical investigation reports, flood plain studies, and stormwater management permitting and design. CTL was also responsible for foundation recommendations and designs and the completion of an ALTA survey.



Project: WVU Medicine – Outpatient Primary Care Facility
Client: WVU Medicine
Contact: Alan Neptune
Phone: (304) 598-4125

Location: Fairmont, West Virginia

Project Description: The project consisted of the design and construction documents for an outpatient care facility in Fairmont WV. CTL Engineering of West Virginia, Inc. was retained to provide surveying and an ALTA survey, site grading & design, geotechnical investigation reports, and stormwater management permitting and design. CTL was also responsible for the Phase 1 ESA, the NPDS permitting and a design for sanitary sewer.



Project: Chaplin Hill Business Park
Client: Monongalia Co Economic Development Authority
Contact: Holly Childs, Director
Phone: 304-296-6684

Location: Morgantown, West Virginia

Project Description: CTL provided complete design and engineering services to the Monongalia County Development Authority for the Development of a 75-acre Light Industrial Park. CTL provided conceptual and final design layout for 10 – 2 to 6 AC+ building site including utilities, stormwater and sewerage collection systems, Grant Application assistance, construction management, and quality control construction observation. The Park currently has 10 active business structures and 13 property owners. The park has provided for over 500 jobs in light commercial and industrial buildings.



Project: The District – Student Apartment Complex

Client: EA Morgantown, LLC

Location: Morgantown, West Virginia

Project Description: This project is a 30-acre development for student housing that consists of 20 apartment buildings, a clubhouse with a pool and a walking trail.

CTL was responsible for permitting, including the following: Erosion and Sediment Control Permit; Highway Access Permit; Temporary Stream Crossing Permit; Right of Access and License Agreement for Temporary Culverts and Permanent Stream Crossing; 100 Year Flood Study for the Monongalia County Floodplain Development Permit; 401 Water Quality Certification; and the Section 404 Permit.

CTL also performed the Geotechnical Investigation and prepared the design for conceptual and final plans, road layout, and bridge location. CTL was also responsible for the design of a turning lane in accordance with West Virginia Department of Highways requirements, grading plans, retaining wall location, storm water systems and storm water detention.



Project: Gateway Development

Client: MAGCS, LLC

Contact: Cliff Sutherland, Owner

Phone: (304) 284-8244

Location: Westover, West Virginia

Project Description: This project is a 46-acre retail development featuring a Triple S Harley Davidson Shop, two hotels, a gas station/convenience store, various restaurants & retail stores. CTL was responsible for permitting, including the following: Erosion and Sediment Control Permit; Highway Access Permit, upgrading a county road and sanitary permitting. CTL also performed the Geotechnical Investigation and prepared the design for conceptual and final plans, road layout, and sanitary design, grading plans, survey and plat work including an Alta survey, storm water systems and storm water detention.



Project: Retained Engineer
Client: Mount Morris Water and Sewage Authority
Contact: Charles Nutter
Phone: (724) 324-2186
Location: Fairmont, West Virginia

Project Description: Mount Morris Municipal Authority, Pennsylvania. Lead engineer for design of sewer system remediation design. Effort involved coordination of design for requirements of PennDOT as related to system components within PennDOT right of way. As the retained engineer, CTL is responsible for any planning updates, engineering design, permitting, annual reporting, corrective action plans, surveying, and project management and construction inspection.



Project: Aaron's Run AMD Project
Client: Maryland Department of Environment – AML Division
Contact: Mike Garner
Phone: (301) 689-1440
Location: Garrett County, Maryland

Project Description: CTL Engineering of West Virginia, Inc. was retained to provide the design for multiple AMD treatment systems, 2 SAP cells, slurry doser, settling ponds, and natural wetlands. CTL also provided full site grading plans & drainage controls, access road & highway rated bridge, all state & federal permitting, and construction specifications and drawings.



Project: Farmington Box Culvert Rehabilitation
Client: Monongalia Conservation District
Contact: Gene Saurborn
Phone: (304) 285-3118
Location: Farmington, West Virginia

Project Description: The town of Farmington has experienced occasional flooding from storms of short intense duration. CTL Engineering of West Virginia, Inc., in conjunction with an open-ended contract with the Monongahela Conservation District and the West Virginia Conservation Agency, provided design, specifications, bidding and construction observation and testing for the project consisting of demolishing and replacing the existing deteriorating concrete deck lid, repair spalling and cracking areas of existing sidewalls, and installation of a 8" diameter sanitary stub into the existing main line.



Project: University Town Center

Client: Mon-View, LLC

Contact: Rich Perin

Phone: (724) 485-4029

Location: Granville, West Virginia

Project Description: The University Town Center is a commercial development located on former Consol Mine property. The development consists of a variety of restaurants and stores. Wal-Mart, Sams Club and Target are the anchors for the development.

CTL Engineering of West Virginia, Inc. was retained to provide surveying for the 400 plus acre development. CTL provided all the surveying work, plats and ALTA's for the development. CTL also provided surveying and plats for the majority of the developments tenants.



Project: Natural Gas Pipelines

Client: Various Oil and Gas Clients

Location: Various locations in Ohio and West Virginia

Project Description: CTL Engineering Inc. has become a leader in providing development, permitting, regulatory compliance, geotechnical and construction services to the rapidly expanding natural gas extraction industry. CTL has provided environmental services for over 100 miles of pipelines. These services include: wetland delineation, regulatory permitting and environmental assessments. Most of CTL's involvement has been with development of the Marcellus and Utica Shale Formations in West Virginia, Ohio and Pennsylvania. CTL Engineering has become a leader in providing development, permitting, regulatory compliance, environmental, geotechnical and construction services to the rapidly expanding natural gas extraction industry.



Project: WVU Hospitals Parking Lot Facility

Client: WVU Medicine

Contact: Alan Neptune

Phone: (304) 598-4125

Location: Morgantown, West Virginia

Project Description: CTL Engineering of West Virginia, Inc. is providing engineering services pertinent to a "redesign" project involving a storm water collection and retention system for an existing parking lot facility. The redesign and upgrade also includes the associated storm water detention basin. The parking lot is presently graveled with portions in grass, and is scheduled to be paved in asphalt. This project involves approximately 500 parking spaces and encompasses almost 8.0 acres.

