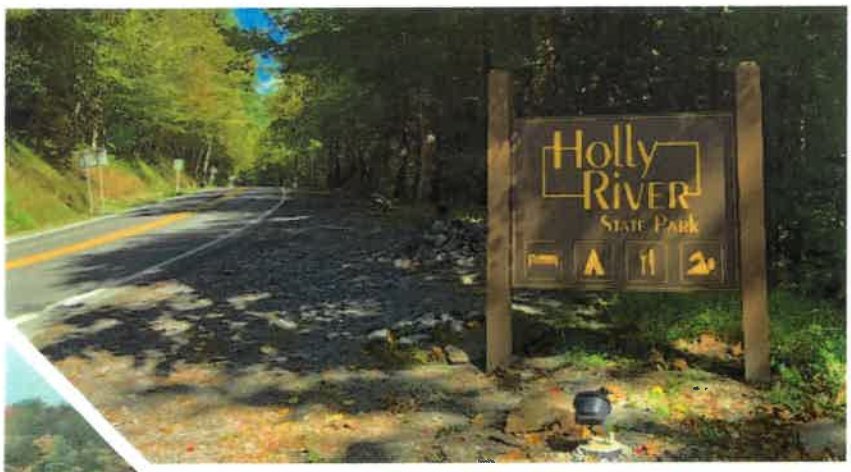

EXPRESSION OF INTEREST

Holly River State Park
Main Water Service Project
Division of Natural Resources
CEOI 0310 DNR2400000008

Chapma
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GI

Chapman Technical Group | 200 Sixth Avenue St. Albans, WV 25177 | 304.727.5501

Chapman Technical Group
a division of GRW

200 Sixth Avenue
Saint Albans, WV 25177

304.727.5501

Buckhannon, WV
Lexington, KY

www.chaptech.com

May 21, 2024

Mr. Josh Hager
c/o Department of Administration
Purchasing Division
2019 Washington Street, East
Charleston, WV 25305-0130

Re: Holly River State Park
Main Water Service Project

Dear Mr. Hager:

Chapman Technical Group (CTG) is extremely interested in providing professional engineering services to the Division of Natural Resources for the above-reference project. We are an employee-owned engineering and architectural consulting firm with the ability to perform all the required work with our current experienced in-house staff.

Additionally, in late 2013, Chapman Technical Group joined GRW, a Lexington, KY-based A/E firm with eight (8) offices in four (4) states with nearly 200 professionals committed to serving our clients. GRW also has extensive experience in the water and wastewater fields, and this allows CTG to bring additional resources to our clients here in West Virginia.

For forty years now, CTG has provided design and construction services of public water system improvements projects throughout West Virginia. Our experience with water systems includes new construction and renovation and rehabilitation of existing facilities in size from very small systems to larger systems supplying over 100,000 people.

It is worth noting that we are very familiar with the public water supply system serving the project area having designed it for WV American Water Company several years ago.

We will meet the following goals and objectives of the project:

1. We will review the existing facilities and develop a comprehensive plan to meet the goals of the project to decommission the existing water system and connect it to the public water system.

2. Designs will be executed to comply with applicable codes and standards, consistent with DNR needs and objectives and within the DNR budget.

3. We will provide construction administration services using the design professionals who designed the project.

Chapman Technical Group has the experience, technical qualifications, and commitment to client satisfaction needed to assist you with the successful completion of your project. Now being a part of GRW, we offer the resources of a national firm with the same local familiarity and personalized service we have provided for decades. We look forward to hearing from you.

Very truly yours,

CHAPMAN TECHNICAL GROUP

Robert G. Belcher, P.E.
Senior Vice President

40 YEARS ANNIVERSARY

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

State of West Virginia
Centralized Expression of Interest
Architect/Engr

Proc Folder: 1420085
Doc Description: A&E - Holly River State Park Main Water Service
Proc Type: Central Purchase Order

Reason for Modification:

Date Issued	Solicitation Closes	Solicitation No	Version
2024-05-02	2024-05-21 13:30	CEOI 0310 DNR2400000008	1

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code: 000000207246
Vendor Name : Chapman Technical Group
Address : 200
Street : Sixth Avenue
City : St. Albans
State : West Virginia **Country :** USA **Zip :** 25177
Principal Contact : Robert G. Belcher
Vendor Contact Phone: (304) 727-5501 **Extension:** 3125

FOR INFORMATION CONTACT THE BUYER
Joseph E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor Signature X Robert G. Belcher **FEIN#** 550704766 **DATE** 5-21-24

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

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.

(Printed Name and Title) Robert G. Belcher, PE, Sr. Vice-President

(Address) 200 Sixth Avenue, St. Albans, WV 25177

(Phone Number) / (Fax Number) (304) 727-5501/NA

(email address) gbelcher@chaptech.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through *wv*OASIS, I certify that: I have reviewed this Solicitation/Contract 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/Contract 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 this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; 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.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

Chapman Technical Group
(Company)

Robert G. Belcher
(Signature of Authorized Representative)

Robert G. Belcher, PE Sr. Vice President 5-21-24
(Printed Name and Title of Authorized Representative) (Date)

(304) 727-5501/NA
(Phone Number) (Fax Number)

gbelcher@chaptech.com
(Email Address)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI 0310 DNR2400000008

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)

- ☐ Addendum No. 1
- ☐ Addendum No. 2
- ☐ Addendum No. 3
- ☐ Addendum No. 4
- ☐ Addendum No. 5
- ☐ Addendum No. 6
- ☐ Addendum No. 7
- ☐ Addendum No. 8
- ☐ Addendum No. 9
- ☐ 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.

Chapman Technical Group
Company

Robert G. Rehler
Authorized Signature

5-21-24
Date

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

TABLE OF CONTENTS

Anticipated Concepts

Chapman Technical Group/GRW has extensive experience designing public water supply systems throughout WV, KY, IN, and TN. We currently have a water plant and system upgrade project under construction in Lewisburg, WV. This $63 million project consists of a state-of-the-art treatment facility which uses the Greenbrier River as its source of supply and is rated at 4,000 gallons/minute.

As mentioned in our cover letter, we are very familiar with the public water supply system serving the area outside of the Park. CTG designed this system for WV American Water Company several years ago when interconnecting the Weston water system with that of Webster Springs to decommission the aged a deteriorated treatment plant in that location.

For this project, the construction schedule would need to be properly coordinated to minimize service interruptions to the Park. Since the Park will remain open during construction, the new water system will need to be constructed, tested, and disinfected prior to being placed into service and prior to decommissioning of the existing water system.

Plan of Approach

Planning and Design Phase:

- Meet with Owner and tour existing facilities.
- Evaluate available options to replace the existing water distribution and storage system.
- Meet with the WV American Water Company and the WV BPH on design and operating requirements for the proposed new facilities.
- Present findings to the DNR with recommendations, costs (construction and total cost), and a schedule for completion.
- Obtain mapping of the site, survey if necessary.
- Prepare design set for the new system improvements and demolition/removal of existing tank, including plans, specifications, and bidding documents.
- Present plan set to the DNR and other agencies as required for approval.
- Design shall include the shutdown, decommissioning, removal, and disposal of the existing water storage tank upon completion of construction, if desired.

Permits, fees, and licenses as required:

- Assist with obtaining a Stormwater NPDES permit as required.
- Assist with WV BPH for Permit to Construct.

Bidding Process:

- Preparation of bid documents and assisting in the bidding process.
- Attend Pre-Bid Conference and provide any needed additional information for addenda as required.
- Assist with evaluation of bids submitted if required.

Construction Administration:

- Construction time is usually established by the DNR and Engineer and can vary based on the complexity of the project and the time of year of award.
- A preconstruction meeting is held with the selected Contractor to go over all aspects of the construction. This meeting can include the DNR, Engineer, existing utility reps, and others.
- Prepare responses to Contractor questions (RFI process)
- Review Contractor submittals, process pay requests, etc.
- Conduct monthly progress meetings on-site.
- Our team would strongly encourage allowing the Engineer to provide full-time construction observation services during construction to provide greater assurance that the Contractor is performing the work in general conformance with all the requirements for the projects, including being the liaison between the DNR and Engineer to assist with resolving problems on site during construction, witness start-up and testing of the completed system and assisting with preparation of punch list items for any remaining work.
- When the project is functional, a Notice of Substantial Completion is issued to the Contractor which sets forth the beginning and end of the specified warrantyperiod.

Post Construction:

- A final walk through is made of the newly constructed project and a punch list of incomplete work is established and provided to the Contractor.
- Project design and construction is under warranty for one year unless DNR desires an additional warranty period.
- Construction red-line drawings prepared during construction are turned into Record Drawings(As-Builts) and presented to the DNR. This information will be provided in both hard copy and electronic format.

Project Management

The key to Chapman Technical Group's project control is the management of the entire project, from the first scope meeting to project closeout, by a single Project Manager. The Project Manager is the leader of the design team and is the single point of contact for the Division of Corrections. The Project Manager is most often the lead designer for the project.

During design, the Project Manager will document all design meetings and distribute meeting notes to all parties. During construction, the Project Manager will receive, document, process, and distribute submittals and shop drawings, as well as test results and construction observation reports. At the end of the project, the Project Manager will be responsible for coordinating all closeout requirements such as as-built drawings, operations and maintenance manuals, and project warranties.

Quality Control

Chapman Technical Group's quality control strategy is two-fold. As noted previously we rely on a strong Project Manager to have a detailed level of knowledge of the project and act as a single point of contact for everyone involved in the project. This provides a clear line of communication among all parties that is crucial to the success of the project.

We provide all needed services, except geotechnical engineering, in-house with our highly experienced staff of civil, mechanical, and electrical engineers, as well as architects, surveyors, and technicians.

We also implement a peer review system for all work and all disciplines to ensure all design documents are as complete as reasonably possible. We are constantly exchanging ideas about projects to find the optimal solutions to various design challenges.

We have an outstanding reputation among contractors for developing complete and accurate construction documents which results in consistent bids and limited change orders.

EXECUTIVE SUMMARY

Selecting a firm to provide professional services can be difficult in today's market. Many firms offer computer services and technical skills; however, Chapman Technical Group offers qualities that other firms may lack. Summarized below are the benefits of selecting Chapman Technical Group:

Since 1984, Chapman Technical Group has been responsible for the planning, administration, design, and construction of over $500 million of water, wastewater, and stormwater system improvements projects throughout West Virginia involving both new construction and rehabilitation/renovation of existing facilities.

Chapman Technical Group's staff of nearly 30 personnel, including environmental, civil, structural, and electrical engineers, as well as architects, landscape architects, surveyors, technicians, and construction representatives are available to begin work immediately.

In late 2013, Chapman Technical Group joined GRW, a Lexington, KY based A/E firm with extensive resources in the municipal water and wastewater fields, an additional asset for Chapman Technical Group and our clients.

We are a true West Virginia firm, and our personnel have a wealth of experience in the potable water, wastewater, and stormwater fields in West Virginia, and are adept at dealing with the many challenges our unique terrain presents.

Most Chapman Technical Group employees are natives of West Virginia and are graduates of West Virginia colleges and universities.

Preparation of preliminary engineering reports and feasibility studies are frequent tasks that Chapman Technical Group regularly provides. Our experience in the water, wastewater, and stormwater engineering fields, our knowledge and experience with all funding agencies, and our working relationship with regulatory agencies all provide invaluable resources towards the successful development of any project.

Our reputation for providing innovative and cost-effective design solutions, our commitment to client satisfaction, and our proven track record in meeting schedules and budgets have all combined to make Chapman Technical Group the clear leader in the environmental engineering consulting field in West Virginia.

COMPANY OVERVIEW

Established in 1984, Chapman Technical Group has steadily grown to a diverse firm of professionals, many of who were educated in West Virginia colleges and universities. We have achieved an outstanding reputation for providing high-quality design projects, while meeting client schedules and budgets and have received numerous awards for our work. In late 2013, Chapman Technical Group was acquired by GRW, a Lexington, KY based A/E firm, allowing us to provide a wider range of services while expanding our resources. We remain Chapman Technical Group, a wholly owned subsidiary of GRW, with offices in St. Albans and Buckhannon, West Virginia offering an extensive range of professional services.

Chapman Technical Group offers a broad range of professional services.

- Airport Design
- Architecture
- Civil Engineering
- Interior Design
- Landscape Architecture
- Recreational Facilities
- Roads, Highways, & Bridges
- Site Development
- Space Planning
- Surveying
- Water & Wastewater Systems
- Geospatial

AWARDS

- WV CHAPTER, AMERICAN COUNCIL OF ENGINEERING COMPANIES - ENGINEERING EXCELLENCE AWARD, 2018, First Place Water Resources Category for the City of Elkins Water Treatment Plant and Distribution Upgrade Project.
- WV CHAPTER, AMERICAN COUNCIL OF ENGINEERING COMPANIES - ENGINEERING EXCELLENCE AWARD, 2012, Gold Award - Water & Wastewater Category for the Corporation of Shepherdstown Wastewater Treatment Plant Project.
- WV CHAPTER, AMERICAN COUNCIL OF ENGINEERING COMPANIES - ENGINEERING EXCELLENCE AWARD, 2012, Gold Award - Transportation Category for the Appalachian Regional Airport Project, Mingo County.
- WINNER - "COMMISSIONER'S ENGINEERING ACHIEVEMENT AWARD", WVDOT - DIVISION OF HIGHWAYS - 2017, Large Roadway Category for WV 10 So. Madison Branch to Gyandotte Bridge; 2014, Large Roadway Category for WV10 Rum Creek to Stollings; 2013, Small Roadway Category for Corridor H Paving WV 42/93 Interchange to 2.8 miles east WV 42/93; 2011, Large Roadway Category for WV10 North Davy Branch to Rum Creek; 2000: Large Bridge Category for WV10 Buffalo Creek Bridge, Logan County, West Virginia.
- WV CHAPTER, AMERICAN COUNCIL OF ENGINEERING COMPANIES - ENGINEERING EXCELLENCE AWARD, 2009, Gold Award - Special Projects Category for the Mercer County Airport Runway Safety Area Project
- AMERICAN SOCIETY OF CIVIL ENGINEERS, 2009, National Superior Employer in the Private Sector Award.
- WV CHAPTER, AMERICAN INSTITUTE OF ARCHITECTS - HONOR AWARD FOR EXCELLENCE IN ARCHITECTURE, 2008 - Upshur County Courthouse Restoration and Renovations.
- WV CHAPTER, AMERICAN COUNCIL OF ENGINEERING COMPANIES - ENGINEERING EXCELLENCE AWARD, 2008, Bronze Award - Wastewater Category for the Spring Run State Fish Hatchery Improvements.
- WV CHAPTER, AMERICAN COUNCIL OF ENGINEERING COMPANIES - ENGINEERING EXCELLENCE AWARD, 2007, Silver Award - Structures Category for the Mercer County Airport Runway Safety Area Project.
- WV CHAPTER, AMERICAN COUNCIL OF ENGINEERING COMPANIES - ENGINEERING EXCELLENCE AWARD, 2003, Gold Award - Water Treatment Category for the City of Fairmont Water Treatment Plant Project.
- FINALIST - "COMMISSIONER'S ENGINEERING ACHIEVEMENT AWARD", WVDOT - DIVISION OF HIGHWAYS - 1999: Large Roadway Category for WV10 Buffalo Creek - Taplin Project; 2000: WV10 Buffalo Creek - Huff Junction Project, both in Logan County, West Virginia.
- WV CHAPTER, AMERICAN COUNCIL OF ENGINEERING COMPANIES - ENGINEERING EXCELLENCE AWARD, 1999, Silver Award - Water and Wastewater Category, for the City of Beckley Piney Creek Wastewater Treatment Plant Project.
- ENTREPRENEUR OF THE YEAR AWARD - FINALIST, 1999 and 2000, Sharon L. Chapman, President, was named one of twenty finalists in the West Virginia Area Entrepreneur of the Year Award. Sharon was recognized for leading Chapman Technical Group to become one of the most highly regarded engineering firms in the state after the death of her husband and company founder, Harvey R. Chapman.
- "EXPECT THE BEST FROM WEST VIRGINIA AWARD", 1998, Charleston Regional Chamber of Commerce.
- "GOVERNOR'S AWARD FOR ENGINEERING EXCELLENCE", 1990, The West Virginia Chapter of the American Public Works Association, in recognition of outstanding Public Works Engineering and Design of Projects within West Virginia.
- "GEORGE WARREN FULLER AWARD", Harvey R. Chapman, P.E., 1984, Robert G. Belcher, P.E., 2001, and Sharon L. Chapman, 2005, American Water Works Association, for distinguished service in the water supply field in the State of West Virginia.

ENVIRONMENTAL ENGINEERING

Chapman Technical Group readily provides water and wastewater system analysis, planning, design, construction administration, and construction observation services for all aspects of municipal and commercial/industrial projects. Our vast experience in these areas has enabled our firm to become one of the clear leaders in the fields of water, wastewater, and stormwater engineering. This enables the development and betterment of our communities by improving our environment and providing for the public's health, safety, welfare, and convenience.

Water Engineering

Chapman Technical Group's experience with water systems projects has encompassed both new construction and renovations and rehabilitation of existing treatment, storage, pumping, and distribution facilities ranging in size from small on-site systems supplying only a handful of people to larger systems supply entire service territories. Our firm also provides in-depth comprehensive planning studies, including source of supply studies relating specifically to record and recurring droughts, as well as detailed computerized hydraulic analyses of entire systems in order to identify and eliminate any significant flow and pressure constraints within those systems.

Wastewater Engineering

Chapman Technical Group's experience with wastewater system has encompassed new construction as well as renovations and rehabilitation of existing treatment, pumping, and collection facilities ranging in sizes from small on-site systems to larger systems serving approximately 100,000 people. Our firm also provides in-depth comprehensive facility planning studies, including extensive field investigations for performing detailed infiltration/inflow analysis and subsequent sanitary sewer system evaluation surveys.

Overall Capabilities

- Funding and Regulatory Assistance
- Feasibility Studies/Facility Plans
- Water and Wastewater Treatment Design
- Water Distribution and Storage
- Wastewater Collection and Pumping
- Computerized Hydraulic Network Analysis
- I/I Analysis/SSES Studies/CSO Plans
- Management Programs

WATER ENGINEERING

City of Lewisburg Public Works

Downtown Waterline Replacement

531 Feamster Road
Lewisburg, West Virginia

Chapman Technical Group provided design and construction observation services for the City of Lewisburg's water distribution system improvements project. The project consisted of removing and replacing 100 year old waterlines in an effort to reduce unaccounted for water. The improvements consisted of the construction of removing and replacing approximately 9,000 LF of 8" PVC and 2" PVC waterlines including valves and fire hydrants.

WATER ENGINEERING

City of St. Albans Municipal Utility Commission
Water System Improvements

Post Office Box 1270
St. Albans, West Virginia 25177

In 2007, the St. Albans MUC recognized the need to undergo a major renovation project at the treatment plant, as well as renovate their storage tanks and replace a significant portion of their aged and deteriorated water distribution system.

The Phase II project began in 2010 and consisted of replacing approximately 57,900 feet of the water distribution system, which is approximately 18% of the total system, at a cost of approximately $8.5 million. The majority of the work involved replacing pipes in excess of 80 years old, and was not completed until 2013. These improvements to the distribution system not only improved service and water quality, but also reduced water losses, improved fire protection capabilities within the system, and reduced overtime labor due to emergency repairs.

WATER ENGINEERING

Town of New Haven

Water System Improvements

164 Layne Street
New Haven, West Virginia 25625

Town of New Haven's original water system was constructed in the 1940s and consisted mainly of cast iron, asbestos cement, and galvanized pipe. Newer portions of the distribution system were constructed in the 1960s and were of the same pipe material as the original. Due to the age of the pipe, leaks throughout the system were common. Inoperable fire hydrants as well as undersized lines were causing pressure and fire protection problems. Customers at higher elevations reported low pressure. The Town had two (2) water storage tanks that did not meet current design standards. The Town had two raw water wells, but only one was in operation.

The project replaced much of the water distribution system, constructed a new 97-foot-tall water storage tank, demolished the two existing tanks, rehabilitated one well, and replaced the inoperable well. The project provided reliable water service, adequate fire protection, and gave maintenance personnel control over the system with the installation of isolation valves.

WATER ENGINEERING

Clay County Public Service District

Fola/Lizemore/Independence Waterline Extensions

Post Office Box 130
Clay, West Virginia

Design and construction observation services for a waterline system extension project which included 101,000 linear feet of water mains, three (3) booster stations (30 gpm, 85 gpm and 90 gpm), one (1) 65,000 gallon water storage tank, one (1) 108,000 gallon water storage tank, and one (1) 137,000 gallon water storage tank. Also included was a tank level/booster control telemetry system with central controls at the Public Service District office.

WATER ENGINEERING

Town of Davis

Water System Improvements

Post Office Box 207
Davis, West Virginia

Design and construction observation services for a water system improvements project which included 53,100 linear feet of water mains, fire hydrants, a 100,000 gallon water storage tank, two booster stations, and tank level/booster control telemetry system with remote control ability from the existing water treatment plant. Obis dolupid quibusa eserio. Itatia cullaut occaborectur aligende samet officto eum est, que nos re, quiaes pa il im atinvel laturio nseditatque dolore aute vel mossimp erumet rerissi tatquas piducia dunt quos que exeria

WATER ENGINEERING

Clay County Public Service District

Ivydale Water System Improvements

Post Office Box 130
Clay, West Virginia

Design and construction observation services for a water system improvements project which included 53,100 linear feet of water mains, fire hydrants, a 100,000 gallon water storage tank, two booster stations, and tank level/ booster control telemetry system with remote control ability from the existing water treatment plant.

WATER ENGINEERING

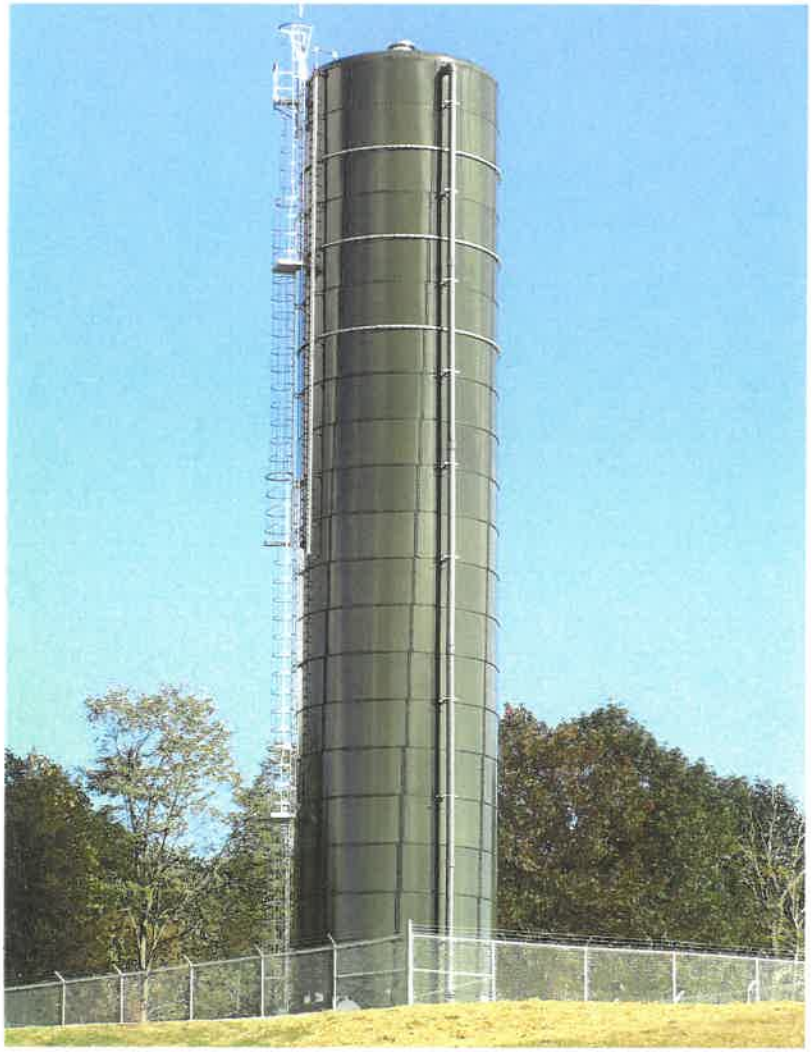
WV American Water Company

Cabell County Waterline Extensions

1600 Pennsylvania Avenue
Charleston, West Virginia

Design and construction phase services for the waterline extensions project was completed in 2001. The project included approximately 86,560 feet of primarily 2", 6" and 8" water mains, gate valves, and connections to the existing water system. The project provided water service to Charleys Creek/Hudson Hollow/Wolfpen Hollow, Little Ridges Creek, Ridges Creek to Suzannah, Cavill Creek, Tyler Creek at Bells Gap, Hinchman-Bend/ Donald Gue, Toler/Trace Creek, Childress Hollow Road, and Little Two Mile in Cabell County and Upper Bear Creek in Lincoln County.

WATER ENGINEERING



Elkins Road Public Service District

Phase II Water System Improvements

Route 2, Box 105
Buckhannon, West Virginia

Design and construction phase services for the Phase II Water System Improvements project completed in 2006. The project included over 160,000 feet of primarily 6", 8", and 12" water mains, fire hydrants, a 218,000 gallon water storage tank, a 200 gpm duplex water booster station, and new SCADA system for control and monitoring of the District's tanks and booster stations.

WATER ENGINEERING

Elkins Road Public Service District

Phase I Water System Improvements

Route 2, Box 105
Buckhannon, West Virginia

Design and construction phase services for the Phase I Water System Improvements project completed in 1999. The project included over 106,000 feet of primarily 6" and 8" water mains, fire hydrants, an 86,000 gallon water storage tank, a 75 gpm duplex water booster station, and radio telemetry for the new tank and booster station as well as the District's existing tanks and booster stations with central controls at the City of Buckhannon Water Treatment Plant. The project initially served approximately 180 customers and due to an underrun in budgeted construction funds, an extension was added to the project to provide service to an additional 20 customers involving an additional 10,000 feet of water main and a constant-run recirculating duplex water booster station.

WATER ENGINEERING

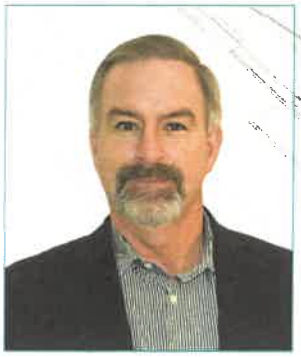
City of Thomas
Water System Improvements

Post Office Box 248
Thomas, West Virginia

Chapman Technical Group provided design and construction observation services for this water system improvements project. The water system improvements project consisted of improvements to the water distribution system, water storage tanks and water treatment plant. The project was undertaken in two distinct phases, namely Phase I and Phase II. Phase I improvements consists of upgrading undersized waterlines to increase fire protection, removal of existing fire hydrants on existing 4" waterlines and installation of new fire hydrants on new 6" and 8" waterlines, reducing unaccounted for water losses by replacing deteriorated waterlines, replacement of the City's main water storage tank with a new 157,000 gallon storage tank, and to improve water quality in the distribution system. Approximately 19,000 LF of 6", 8" and 10" waterlines were installed in the distribution system.

Phase II of this project consisted of the renovation of the City's existing 200 GPM package water treatment system with a new 200 GPM package pressure filter system.

PROJECT TEAM



Robert G. Belcher, P.E.

Senior Vice President
Project Officer

Years of Experience: 40
Years with Chapman: 37

Education
B.S., Civil Engineering, 1983, West Virginia Institute of Technology

Registration
Civil Engineer: WV, OH, VA

Affiliations
WV Water Environment Association

Contractor's Association of WV

WV American Water Works Association

WV Society of Professional Engineers

WV American Council of Engineering Companies

WVUIT Civil Engineering Advisory Board

WV Qualifications Based Selection Council

Awards
George Warren Fuller Award, 2001

Experience

Water Systems
Design and project management for numerous water systems for both public and private water companies. Projects include new water treatment plants as large as 6.0 MGD, improvements to existing plants, water mains and distribution systems. Water storage projects include glass-lined steel tanks, welded high-strength steel tanks, elevated pedestal tanks, and pre-stressed concrete tanks.

Wastewater Systems
Design and project management for numerous wastewater systems throughout West Virginia. Projects include new, secondary and tertiary wastewater treatment plants as large as 4.5 MGD, improvements to existing plants, small-flow treatment plants, new and rehabilitation of wastewater collection systems, CSO compiance, SSES Reports and I/I Studies, and facility plan updates.

Miscellaneous
Design and project management for large highway and bridge projects, airport improvements projects, large stormwater management projects including assistance with MS4 compliance, as well as potable water and wastewater system design for site development projects throughout West Virginia, and Virginia.

Matthew T. Tanner, P.E.

Civil/Environmental Engineer

Years of Experience: 18
Years with Chapman: 5

Education

MSE, Civil and Environmental Engineering, 2021
Marshall University

BS, Engineering Mechanics 2005,
Lipscomb University

Registration

Professional Engineer: WV, OH, PA, KY, MD, TN

Affiliations

Member, Water Environment Federation
Member, American Water Works Association
Infrastructure Chair, WV American Council of Engineering Companies

Projects Include:

City of Saint Albans Municipal Utility Commission WWTP Improvements
(Saint Albans, WV)

Culloden Public Service District Virginia Avenue Sewer Replacement and Lift Station Relocation
(Culloden, WV)

City of Lewisburg
Water System Improvements
(Lewisburg, WV)

Sanitary Board of Bluefield
Westside Wastewater Treatment Plant Improvements
(Bluefield, WV)

Sanitary Board of Bluefield
College Avenue Sewer Replacement Phase II
(Bluefield, WV)

Experience

Water Systems

Overall project experience includes design, permitting, bidding, and construction management of public and private water system projects. Specific project experience includes permitting, design, and construction administraton of distribution system extensions, water storage tanks, and water treatment system modifications for public water system compliance.

Wastewater Systems

Overall experience includes design, permitting, bidding, construction administration and management of various municipal and industrial wastewater systems. Specific project experience includes gravity collection systems, forcemain transmission systems, stream crossings, industrial wastewater treatability studies, onsite wastewater treatment systems, and municipal and industrial wastewater treatment facility improvements.

Storm Water Systems

Overall experience includes stormwater control and management design and permitting in West Virginia, Kentucky, Ohio, and Tennessee. Specific project examples include NPDES construction stormwater permitting, NPDES Multi-Sector Stormwater permitting, SWPPP preparation, and design of stormwater controls and management best management practices.

Robert C. Denzie, P.E
Civil Engineer

Years of Experience: 10
Years with Chapman: 10

Education
B.S., Civil Engineering, 2014
Marshall University

Registration
Professional Engineer: WV

Affiliations
Member, American Water Works Association Member, Water Environment Federation

Projects Include:
City of Elkins
Water System Improvements
(Elkins, WV)

Clay County Public Service District
Water System Improvements
(Lizemore, WV)

West Virginia American Water Company Wastewater System Improvements
(Fayetteville, WV)

City of Buckhannon
SCADA System
(Buckhannon, WV)

West Virginia DNR
Town of Cass Copper Removal
(Cass, WV)(Ellenboro, WV)

Charleston Sanitary Board
Emerald Heights and Sherwood Forest Pump Stations Project
(Charleston, WV)

City of Lewisburg
Water System Improvements
(Lewisburg, WV)

Experience

Water Systems
Overall experience includes planning and design of various public water system projects throughout West Virginia. Specific project experience includes distribution system design, treatment plant design, existing system analysis, construction management, and observation.

Wastewater Systems
Overall experience includes design of various public wastewater system projects throughout West Virginia. Specific project experience includes design of gravity and force main transmission systems, lift stations, and existing system rehabilitation.

Storm Water Systems
Overall experience includes planning and design of various public and private stormwater system projects throughout West Virginia. Specific project experience includes, stormwater collection system design and stormwater management plan preparation.

Michael Stone, P.E.

Civil/Environmental Engineer

Years of Experience: 10
Years with Chapman: 3

Education

ME, Environmental Engineering
Colorado State University; 2012

BS, Civil Engineering WV
University Institute of
Technology; 2012

Registration

Professional Engineer: WV

Affiliations

Water Environment Federation

Projects with Chapman:

Southern Jackson County PSD
Wastewater Treatment
Improvements
(Fairplain/Kenna, WV)

City of Lewisburg
Water System
Improvements
(Lewisburg, WV)

Projects with other firms included:

Oak Hill Sanitary Board
Sewer System Improvements
(Oak Hill, WV)

Union Public Service District
Rock Fork Sewer Extension
Project
(Cross Lanes, WV)

Ravencliff-McGras-Saulsville
Public Service District
New Richmond Water System
Rehabilitation
(Glen Fork, WV)

Experience

Wastewater Systems

Overall experience includes planning, design, permitting, bidding, and construction management of municipal wastewater system projects. Specific project experience includes gravity collection systems, pump and forcemain transmission system, and wastewater treatment facilies.

Water Systems

Overall project experience includes planning, design, permitting, bidding and construction management of potable water systems. Specific project experience includes distribution and storage systems and water treatment facilities.

Storm Water Systems

Overall experience includes stormwater control and management design and permitting in West Virginia. Specific project examples include NPDES construction stormwater permitting, SWPPP preparation, and design of stormwater control and management best management practices.

Andrew Matthews, EI

Civil Engineer

Years of Experience: 7
Years with Chapman: 7

Education

B.S., Civil Engineering, 2018
West Virginia University

Registration

Engineering Intern: WV

Projects Include

WV American Water
Garden Farms WST
Replacement; Cabell
County, WV

Elkins Road PSD
Water Distribution System
Extensions; Upshur County,
WV

City of Buckhannon
Water System
Improvements; Buckhannon,
WV

WV American Water
Company Weston
to Webster Springs
Interconnection; Webster
County, WV

City of Lewisburg
Water System
Improvements; Lewisburg,
WV

Experience

Water Systems

Overall experience includes planning and design of various public water system projects throughout West Virginia. Specific project experience includes distribution system design, treatment plant design, existing system analysis, construction management, and observation.

Wastewater Systems

Overall experience includes design of various public wastewater system projects throughout West Virginia. Specific project experience includes design of gravity and force main transmission systems, lift stations, and existing system rehabilitation.

Stormwater Systems

Overall experience includes planning and design of various public and private stormwater system projects throughout West Virginia. Specific project experience includes, stormwater collection system design and stormwater management plan preparation.

Gordon W. Blizzard, EI
Civil Engineer

Years of Experience: 16
Years with Chapman: 2

Education
B.S., Civil Engineering, 2022
Marshall University

B.A., History, 2012
West Virginia State University

Registration
Engineer Intern, WV

Projects include:
Chesapeake Storm Sewer
Evaluation Survey
Chesapeake, WV

Projects with other firms:
Palazzo Del Luna
Miami, FL

FIU Pedestrian Bridge
Miami, FL

Tampa International Airport
Parking Garage
Tampa, FL

Experience

Water Systems
Overall experience includes planning and design of various public water system projects throughout West Virginia. Specific project experience includes distribution system design, treatment plant design, existing system analysis, construction management, and observation.

Wastewater Systems
Overall experience includes design of various public wastewater system projects throughout West Virginia. Specific project experience includes design of gravity and force main transmission systems, lift stations, and existing system rehabilitation.

Storm Water Systems
Overall experience includes planning and design of various public and private stormwater system projects throughout West Virginia. Specific project experience includes, stormwater collection system design and stormwater management plan preparation.

Project Coordination/CADD
Overall experience includes production and coordination of post-tensioning shop drawings in mono- and multi-strand applications, as well as project coordination.

Fred L. Brown
CADD Manager

Years of Experience: 25
Years with Chapman: 25

Education
Drafting/Cadd Degree, 1997, Carver Career Center, WV

Affiliations
Member, National Vocational Technical Honor Society

Achievements
Winner, 1996, Carver Career Center VICA Skills Competition for Technical Drafting

Judge, 2001, State VICA Skills Competition for Technical Drafting

Experience

Bridge and Highway
Responsible for CADD drafting on base map, site development, construction plan sheets, signal plans, super elevation plans, existing and proposed utilities, utility relocation plans, lighting plans, boring construction plans, typical sections and details, mainline cross sections, bridge plans and details, attenuator details, guardrail plan layout and details, geometric plans, station and offsets of mainline centerline, stationing and curve geometric information, survey reference and control plans, point dump creations.

Architectural and Structural
Responsible for CADD drafting on existing and proposed building plans, structural framing plans and details, foundation plans and details, structural scheduling.

Water and Wastewater
Responsible for CADD drafting on treatment plants, improvements on existing and new facilities, stormwater plans and profiles, booster stations, meter vaults, water system updates for public and private sectors, PRV plans and details.

Site Design
Responsible for CADD drafting on proposed site layouts, site details and cross sections.

Airport
Responsible for CADD drafting on existing and proposed taxiways and runways, taxiway signage, hangar layout, and airport master plans.

Mapping
Responsible for CADD drafting for city, street, and zoning maps.

Dennis N. Duncan
CADD Technician

Years of Experience: 30
Years with Chapman: 25

Education
EDSI REVIT, 2014
Mountain CAD, 1996
West Virginia State College, 1996
AS, Computer Aided Drafting and Design Putnam County Vocational School, 1992

Projects Include
State Road Commission Building Renovation (Charleston, WV)

New WV DOH Rest Areas and Welcome Centers (21 Locations throughout WV)

WV Division of Natural Resources:
Beech Fork State Park Cabins
Blackwater Falls State Park Cabins

New Canaan Valley State Park Ski Lodge (Canaan Valley, WV)

New Pocahontas County Community Center (Marlinton, WV)

Eastern WV Regional Airport Terminal Bldg (Martinsburg, WV)

Upshur County Courthouse Projects (Buckhannon, WV)

Experience

Bridge and Highway
Responsible for CADD drafting on mainline and side road profiles, maintenance of traffic, signingand marking plans, intersection details, survey reference and control plans, typical roadway sections, stormline profiles, bridge sections and details.

Architectural and Structural
Responsible for CADD drafting on recreational and commercial floor plans, building cross sections and details, structural framing plans, foundation plans and details, and building renovations.

Water and Wastewater
Responsible for CADD drafting on treatment plants, improvements on existing and new facilities, stormwater plans and profiles, booster stations, meter vaults, water system updates for both public and private sectors, PRV plans and details.

Jason Brown, P.S.
Professional Surveyor

Years of Experience: 28
Years with Chapman: 13

Education
A.S., Land Surveying, 2002
Glenville State College, WV

Registration
Professional Surveyor: WV, KY, VA, PA

Affiliations
WV Society of Professional Surveyors

Experience

Jason leads the Chapman Technical Group survey team and is experienced in topographical and boundary surveys, as well as flood plain mapping, ALTA surveys, and construction layout. Jason also coordinates aerial mapping and LiDAR services with GRW, the parent company of Chapman Technical Group.

Highways
Established control, site surveying, topographic surveying, courthouse research, drawing production, Right-of-Way Questionnaires, bore hole stake out, and all surveying associated with the initial and final design of WV highways.

Site Development
Experienced in all types of surveying associated with site development, to include control, topographic boundaries, research, and drawing production. Projects include military complexes, public housing, commercial development, industrial and institutional complexes, churches, resorts and public facilities throughout the state.

Schools
Associated surveying for new schools, additions, athletic fields, and sidewalks projects.

Parks and Recreation
Associated surveying for projects including swimming pools, bathhouses, cabins and support facilities for the West Virginia Division of Natural Resources and similar facilities for county and municipal park systems.

Water/Wastewater/Stormwater Systems
Associated surveying for the design of water systems, sanitary sewer systems, and stormwater systems, including treatment facilities for both private and public systems throughout the state. Also, field experience in the inventory and collection of attribute data using GPS equipment for uploading to GIS databases.

David R. Mitchell
Construction Representative

Years of Experience: 25
Years with Chapman: 25

Education
A.S., Applied Science, 1998
Lee College
LA Wilson Technological Center, 1982

Projects Include
Mercer County Airport, WV:
Runway Safety Area and Piling Wall

Raleigh County Airport, WV:
Runway Paving

Eastern WV Regional Airport, WV:
Taxiway Paving

Bluefield Sanitary Board, VA/WV:
Westside Sewer Plant Upgrade
and
ADA Wastewater Plant Upgrade

Elkins-Randolph County Airport, WV:
Runway Re-Paving, Lighting, PAPI System

City of St. Albans, WV:
Water System Improvements

City of Elkins
Water Treatment Plant
3.0 MG Water Storage Tank
(Elkins, WV)

Experience

Construction Observation
Responsibilities include all aspects of field construction and observation from commencement of construction through project start-up. Maintains field diaries and construction log books; monitors shop drawing approvals and fabrication schedules; observes field testing of completed work; verifies contractor's periodic payment requests; verifies completed site work for as-built drawings; attends construction progress meetings; and updates clients on project progress.

Water and Wastewater
Construction observation for water/sewer line and wastewater treatment plant upgrades.

Airport
Construction observation for runway, taxiway light installation, paving taxiway and runway, runway safety area, AWOS installation, piling wall, and PAPI installation.

Surveying
Assists with various types of field surveying for all types of projects.

Charles D. Cash, Jr.
Construction Representative

Years of Experience: 32
Years with Chapman: 30

Education
WV DOH Portland Cement Concrete Course, 1998
WVDOH Hot-Mix Asphalt Course, 2022

Registration
WV Bureau of Public Health, Authorized Sample Collector for New Water Mains, 2018-2020

Projects include:
Corporation of Shepherdstown, WV: Wastewater Treatment Plant Improvements

Corporation of Shepherdstown, WV: Water Storage Tanks

West Virginia American Water Co., WV: Coal River Road Main Line Replacement

West Virginia American Water Co., WV: Fayetteville Waste Water System Improvements

West Virginia American Water Co., WV: Amandaville, WV: 8.0 MG Water Storage Tank

Town of New Haven, WV: Wastewater System Improvements

City of Belington, WV: Water System Tank Improvements

West Virginia American Water Co., WV: Huntington Water Treatment Plant Grit Removal Tank

Experience

Construction Observation
Responsibilities include all aspects of field construction and observation from commencement of construction through project start-up. Maintains field diaries and construction log books; monitors shop drawing approvals and fabrication schedules; observes field testing of completed work; verifies contractor's periodic payment requests; verifies completed site work for as-built drawings; attends construction progress meetings; and updates clients on project progress.

Water and Wastewater
Construction observation for water/sewer line and wastewater treatment plant upgrades.

REFERENCES

1. Honorable Scott James
   Mayor
   City of Saint Albans
   1499 MacCorkle Avenue
   Saint Albans, WV 25177
   (304) 722-3355

2. Mr. Shannon Bailey, PE
   Executive Director
   Sanitary Board of Bluefield
   100 Rogers Street
   Bluefield, WV 24701
   (304) 325-3681

3. Ms. Misty Hill
   City Manager
   City of Lewisburg
   942 Washington Street, West
   Lewisburg, WV 24901
   (304) 645-2080

4. Mr. David Carovillano, PS, PE
   Senior Project Manager
   WV American Water
   1600 Pennsylvania Avenue
   Charleston, WV 25302
   (304) 340-2018

5. Mr. Jonathan Fowler, PE
   WV Public Service Commission
   201 Brooks Street
   Charleston, WV 25301
   (304) 340-0491

ABILITY TO MEET BUDGETS & DEADLINES

Representative Project Budgets

1. City of St. Albans Water Distribution System Improvements
   * Estimated Cost $6,000,000.00
   * Actual Bid $4,853,711.00
   * 19.10% Under Engineer's Estimate

2. Bluefield Sanitary Board - Weside WWTP Imrovements
   * Estimated Cost $11,100,000.00
   * Actual Bid $9,985,000.00
   * 8.10% Under Engineer's Estimate

3. City of Davis Water System Improvements
   * Estimated Cost $1,560,000.00
   * Actual Bid $1,480,000.00
   * 0.051% Under Engineer's Estimate

4. Elkins Road PSD Water System Improvements
   * Estimated Cost $4,560,000.00
   * Actual Bid $4,580,000.00
   * 0.0044 % Over Engineer's Estimate

5. Culloden PSD Wastewater System Improvements
   * Estimated Cost $1,660,000.00
   * Actual Bid $1,480,000.00
   * 10.8% Under Engineer's Estimate

Representative Project Schedules

		Project Cost	Scheduled Completion	Actual Completion
1.	Corporation of Shepherdstown Lowes Bypass (Green Reserve)	$376,000	60 days	45 days
2.	St. Albans 1.5 MG Steel Water Tank	$335,000	90 days	30 days
3.	Culloden PSD Water Storage Tank	$250,000	90 days	30 days
4.	Elkins Road PSD Water System Improvements	$3,500,000	120 days	120 days
5.	Greater St. Albans PSD Sewer System	$3,838,000	270 days	180 days
6.	Town of Davis Stormwater System Improvements (Green Reserve)	$271,000	60 days	30 days
7.	Clay - Roane PSD Water System	$274,000	120 days	45 days