

 **SILLING**  
ARCHITECTS + PLANNERS



Expression of Interest:  
Architectural & Engineering Services  
Denmar Correctional Center  
RFQ# COR61489  
January 20, 2012

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PROCUREMENT DIVISION  
STATE OF WV



## Table of Contents

TAB 1	Cover Letter
TAB 2	SILLING ASSOCIATES Architects + Planners
TAB 3	CHAPMAN TECHNICAL GROUP Civil, Site, Environmental Engineers

January 20, 2012

Tara Lyle  
Purchasing Division  
P.O. Box 50130  
Charleston, WV 25305-0130

Re: RFQ #COR61489

Dear Selection Committee Members:

Silling Associates, Inc. is pleased to submit an Expression of Interest to provide complete architectural/engineering design and construction administration services to the Division of Corrections for the Denmark Correctional Center water storage tanks project. We offer the Division of Corrections the most professional and experienced team of correctional facility design professionals in the state of West Virginia.

**Silling Associates Incorporated** is the longest continuing architectural practice in West Virginia with origins dating to the early 1900s. We offer an unparalleled experience working with the Division of Corrections, Division of Juvenile Services, and the Regional Jail and Correctional Facility Authority, including work at eight major facilities totaling over 1 million square feet and 2,200+ beds of new construction, renovation, and adaptive reuse projects. This design experience includes the Industrial Home for Youth, Mount Olive Correctional Complex, St. Marys Correctional Center, Huttonsville Correctional Center, Stevens Correctional Facility, Martinsburg Correctional Center, and Pruntytown Correctional Center, to name a few. Most recently, we have completed (or are currently completing) various renovation and improvement projects at the Denmark Correctional, Anthony Correctional, Parkersburg Work Release, and Charleston Work Release Centers.

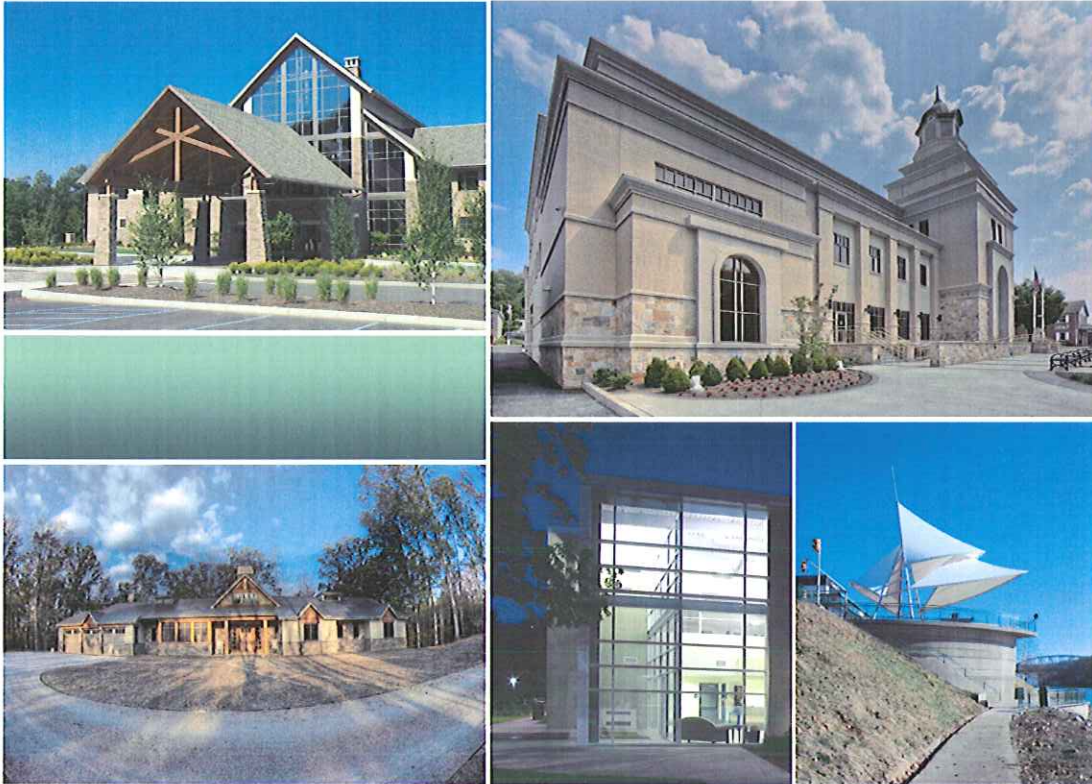
Complementing the architectural team will be **Chapman Technical Group**, consulting civil/site/environmental engineers from St. Albans, West Virginia.

Overall, Silling leads a design team comprised of fifty - five design professionals with significant principal involvement, who will be dedicated to the successful design of the Denmark Correctional Center project. We offer an extensive background in correctional facility design, an intimate understanding of state correctional facility operations, a creative and appropriate design approach grounded in the need for efficiency, economy, and security, rigorous attention to construction detail, and responsible administration of the construction contract.

We have enclosed a summary of our Design Team's qualifications for your review. We look forward to discussing our experience and approach to the Denmark project in greater detail.

Sincerely,

  
Thomas M. Potts, AIA  
President



**Silling Associates, Inc.**  
Architects + Planners  
405 Capitol Street, Upper Atrium  
Charleston, West Virginia 25301  
p 1.304.346.0565  
f 304.346.1522  
web: [www.silling.com](http://www.silling.com)

**Number of Years in Business:**  
109 years

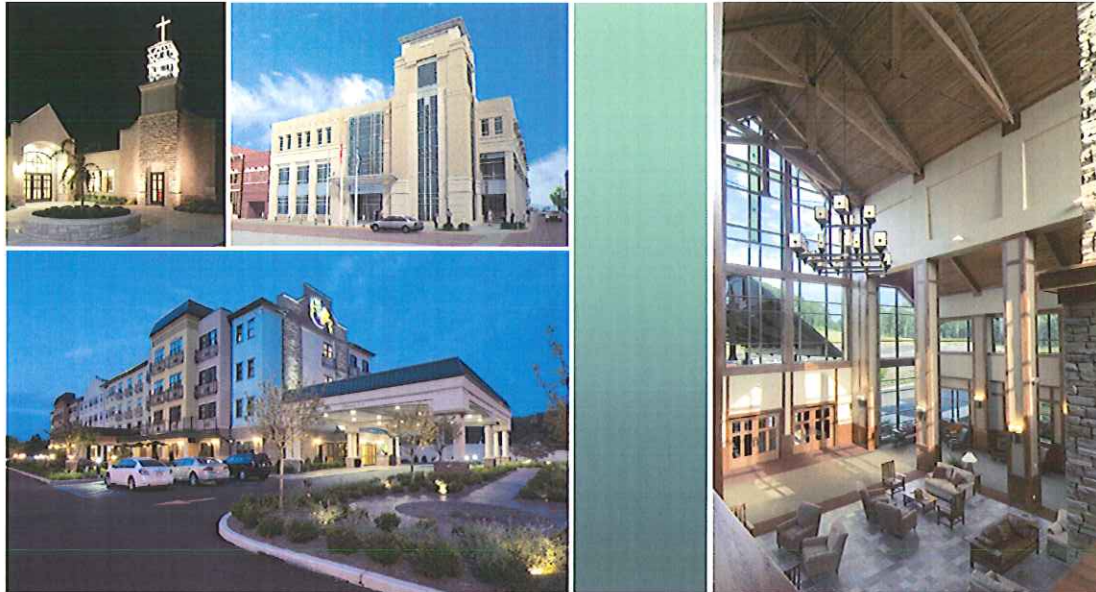
**Firm Principals:**  
Thomas Potts, AIA  
Jody Driggs, AIA

**Total Employees:**  
Sixteen

**Licensed Architects:**  
Six

Architectural success is measured by vision and an unwavering dedication to excellence. This axiom was the philosophical birth of Silling Associates Incorporated by H. Rus Warne in 1902. Following the lead of partners like Warne and its namesake, Cy Silling, the firm today has the proud distinction of being the oldest continuing architectural firm in West Virginia and one of the oldest in the eastern United States. Throughout, Silling Associates has woven itself into the very fabric of West Virginia, providing planning and architectural services that have touched the lives of virtually every citizen and delivering landmark projects collectively defining its built environment.

Whether through its early century beaux arts and neo-classical collection, its mid-century modern and post-modern portfolio, or its current contextual vocabulary, Silling has always been renowned as one of the premier architectural firms in the state. Today, Silling Associates continues to have a powerful impact on the region's architectural landscape through fresh, yet solid design and responsible project management.



**Awards & Recognition:**

*2004 Honor Award for Excellence in Architecture - Star USA Federal Credit Union*

*2006 Merit Award for Achievement in Architecture - James C. Wilson Union*

*2009 Honor Award for Excellence in Architecture - Chesapeake Energy Eastern Regional Headquarters*

*2010 Merit Award for Achievement in Architecture - Bible Center Church*

*2011 Honor Award for Excellence in Architecture - Haddad Riverfront Park & Schoenbaum Stage*

*2011 Merit Award for Sustainable Architecture - Private Residence*

Silling Associates is a principal-led design practice, and the organizational structure of our firm is very much studio-oriented. The principals of our practice are actively engaged in all projects and routinely serve as daily project managers for all major design commissions. This structure ensures that first-hand project criteria, relayed directly from clients in programming and design review meetings, is directly applied to all work within the office; from conceptual design through construction detailing, specification writing, and construction observations services. Likewise, through this studio environment structure, all the talents and perspectives of the entire design and production staff at Silling are brought to each design task, allowing our firm to build multiple-person teams within the office to focus on a variety of projects simultaneously. Likewise, open sharing of project information, project status, and large picture scheduling of our workload allow architects, designers, and technicians to be informed on a number of current project needs and deadlines and cross-pollinate from job to job and task to task. This highly interactive and collaborative structure yield compelling design solutions, maintains client expectations throughout the process, and most importantly ensures quality through principal leadership.

Our staff is comprised of six licensed architects with a combined 110 years of professional experience in design and project management. Each of these individuals bring unique qualifications, certifications, licensures, and professional service credentials, as well as a powerful resume of collegiate honors, graduate degrees, and community involvement. Three of our architects, including both partners, have served as current or past presidents of the West Virginia Chapter of the American Institute of Architects.



Today's dynamic marketplace demands versatility of the design professional. Silling Associates is structured to meet the needs of design/build, construction management, and the traditional design/bid/build delivery methods. Technology has driven the demand for increased design specialization. Collaboration and consensus are principles that are critical to the success of a project. Our staff has a track record of successful projects created both independent of, and in concert with, the most talented professionals within a given building type and engineering discipline. We are committed to delivering quality through understanding the nature of the project and composing the appropriate talents to achieve design excellence. At Silling we offer the following list of comprehensive architectural, planning, and interiors services:

- Feasibility Studies
- Master Planning
- Space Planning
- Architectural Programming
- Concept & Design Development
- Interior Design
- Furniture & Accessories Design
- Furniture & Accessories Specification
- LEED & Sustainable Design
- Construction Period Management
- Flexible Project Delivery

In addition, Silling routinely utilizes the services of some of the region's most qualified and talented engineering consultants, offering a proven history of project collaboration, seamless design integration, and excellent service to our clients.



**Thomas M. Potts, AIA**

Principal

Tom is president of Silling Associates. A sixteen-year member of the firm, Tom has been a driving force in securing and implementing new work. He oversees projects from inception to completion, working closely with clients and contractors to insure the success of projects under his direction. He takes a "hands-on" approach to each and every project, working closely with clients to define and detail requirements for their facilities.

Tom's body of work includes architecture for local, state, and federal government entities, educational institutions, healthcare providers, corporate and professional organizations, and residential clients. He has considerable experience in the design of justice facilities, including courthouses, judicial centers, and correctional institutions. With over 1 million square feet of justice-related designs under his belt, Tom has led the firm's efforts in making Silling a regional leader in the field of justice architecture.

**Professional Experience**  
21 years

**Education**  
-Bachelor of Architecture  
with High Honors  
University of Tennessee, 1990

**Licenses & Certifications**  
-WV, VA

**Professional Affiliations**  
-Past President, American  
Institute of Architects (AIA), WV  
Chapter, 2006-2007  
-Past Vice President, AIA, WV  
Chapter, 2004-2005  
-AIAWV Executive Committee  
Member  
-Academy for Justice Architecture,  
American Institute of Architects

**Awards & Recognition**  
-2004 AIAWV Honor Award,  
Star USA Federal Credit Union

**Justice Experience**

Mount Olive Correctional Complex  
Mount Olive, WV

Huttonsville Correctional Center  
Huttonsville, WV

Stevens Correctional Facility  
Welch, WV

St. Marys Correctional Center  
St. Marys, WV

Denmar Correctional Center  
Hillsboro, WV

Parkersburg Work Release Center  
Parkersburg, WV

Charleston Work Release Center  
Charleston, WV

Martinsburg Correctional Center  
Martinsburg, WV

Anthony Correctional Center  
White Sulphur Springs, WV

Pruntytown Correctional Center  
Pruntytown, WV

Putnam County Judicial Building  
Winfield, WV

Wyoming County Courthouse Annex  
Pineville, WV

Cabell County Courthouse, Circuit Courtroom  
Renovation Study  
Huntington, WV

Morgan County Courthouse  
Berkeley Springs, WV

Raleigh County Judicial Center  
Beckley, WV

Hampshire County Judicial Center  
Romney, WV

Greenbrier County Courthouse  
Lewisburg, WV

Lewis County Judicial Center  
Weston, WV

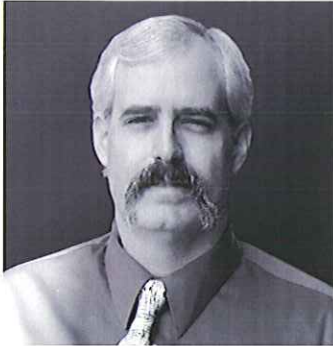
Jefferson County Judicial Center  
Charles Town, WV

Allegheny County District Court  
Cumberland, MD

Medina County Courthouse Expansion  
Medina, OH

Franklin County Courthouse  
Chambersburg, PA

Mineral County Courthouse  
Keyser, WV



**Sean Simon, AIA**

Construction Period Service Manager

Sean has sixteen years' experience involving all phases of architectural programming, design, construction document production, and construction contract administration. Sean joined Silling in 2008 as a Construction Period Service Manager, working closely with the firm's production staff throughout the construction document phase and providing construction contract administration services. He is responsible for facilitating preconstruction meetings providing clear definition of project goals and owner expectations, reviewing contractor submittals, product samples, and shop drawings for conformance to the contract drawings and specifications, attending progress meetings to maintain clear communication with builders, observing installation of materials and systems to verify their conformance with the design intent, and monitoring the project schedule.

**Professional Experience**  
19 years

**Education**  
-Bachelor of Architecture  
University of Tennessee, 1992

**Licenses & Certifications**  
-WV, MD, PA, OH, VA

**Professional Affiliations**  
-American Institute of Architects (AIA), WV Chapter

**Civic Involvement**  
-Cub Scoutmaster for Pack 434, Unit  
Commissioner for Little Kanawha District, Allotah Council

**Select Experience**

Huttonsville Correctional Work Camp  
Huttonsville, WV

Anthony Correctional Center  
White Sulphur Springs, WV

Parkersburg Work Release Center  
Parkersburg, WV

Joan C. Edwards Fine Arts Building  
Renovation, Marshall University

Athletic, Convocation, & Academic Center  
West Virginia State University

Multiple Boiler & Chiller Replacements  
West Virginia State University

Marsh Hall, Fine Arts Building, & Library  
Renovations, Concord University

Chesapeake Energy Regional Field  
Operations Facilities, PA & WV

Morgan County Courthouse  
Berkeley Springs, WV

Hampshire County Judicial Center &  
Courthouse Facilities Renovations  
Romney, WV

Raleigh County Judicial Center  
Beckley, WV

Sullivan Hall Elevator Replacement  
West Virginia State University

Kanawha Valley Heart Specialists  
South Charleston, WV

Kanawha Valley Heart Specialists  
South Charleston, WV

Huntington Pediatric Dentistry  
Huntington, WV

West Virginia Lottery Headquarters  
City Center West Renovation  
Charleston, WV

Putnam County Animal Shelter  
Winfield, WV

Mardi Gras Casino Resort Hotel  
Cross Lanes, WV

Putnam County Courthouse Renovations  
Winfield, WV





**Jeremy Jones, AIA**

Project Architect

Jeremy is a graduate architect with nine years' experience in the architectural industry, including all phases of project design, development, production, presentation, and coordination of contract documents. He has completed all IDP training requirements and has passed the exam for licensure through the National Council of Architectural Registration Boards. Jeremy's educational experience included a study abroad of European Architecture at the Polytechnic Institute of Krakow, Poland, spring semester of 2002. Travel included Austria, Germany, the Netherlands, Italy, England, France, the Czech Republic, and Spain.

**Professional Experience**  
9 years

**Education**

-Bachelor of Architecture, Cum Laude  
The University of Tennessee 2003

**Professional Affiliations**

-American Institute of Architects  
WV Chapter  
-Historic Resources Committee

**Awards & Recognition**

-Fourth Year Design of Excellence Award, top design fourth year level  
-2002 West Virginia AIA Scholarship, state's top architectural student award  
-2001 & 2002 Mark Freeman Scholarships, architecture program's top monetary award  
-2001 U.T. Foreign Travel Scholarship  
-2000 Tennessee Foundation Scholarship, Middle Tennessee AIA award  
-Tau Sigma Delta Architecture Honor Society  
-Golden Key International Honor Society  
-National Collegiate Scholar  
-Phi Eta Sigma Honor Society, freshman honorary  
-Phi Kappa Phi Honor Society, senior honorary

**Select Experience**

Allegheny County District Court  
Cumberland, MD

Haddad Riverfront Park  
Amphitheatre, Stage, & Canopy  
Charleston, WV

Chesapeake Energy Eastern Regional  
Headquarters, Charleston, WV

Chesapeake Energy Building One  
Oklahoma City, OK

Jefferson County Courthouse  
Charles Town, WV

Kanawha Valley Heart Specialists  
South Charleston, WV

Morgan County Courthouse  
Berkeley Springs, WV

Raleigh County Judicial Center  
Beckley, WV

WV Lottery Headquarters  
Charleston, WV

Lewis County Judicial Center  
Weston, WV

WVDOC Work Release Centers  
Multiple Locations, WV

St. Johns United Methodist Church  
Spencer, WV

St. Matthews Episcopal Church  
Charleston, WV

Dr. Holmes Orthodontist  
Charleston, WV

Beverly Hills Baptist Church  
Huntington, WV

Governor's Mansion Restoration  
WV State Capitol Complex

New Health & Technical Center  
Southern WV Community College



Project Size: 425,000 gsf

Project Type: New Construction

Project Status: Completed in 1995

Contacts: Mr. Steve Cantebury,  
Administrative Director  
WV Supreme Court  
304.558.0145

Mount Olive is West Virginia's primary correctional facility with a capacity of 800 adult male inmates. It is a 425,000 sf campus of fifteen buildings arranged in a classic fan shape arrangement inside a secure compound. The building inventory included medium, maximum and minimum security housing with typical support facilities such as education, recreation, prison industries, kitchen and dining, visitation, intake and classification, medical, and administration. The 80-acre former strip mine site which had uncontrolled mine overburden fill had been deep mined below, requiring extensive study and engineering to design several different foundation structural systems. The infrastructure and support services were designed for future growth and can accommodate 240 additional beds when needed.

"The Mount Olive complex is not extravagant; it is something totally different. The beauty lies in a public building which constitutes the best evidences of the character of material, success and solidarity, culture and true civilization of the State of West Virginia. It is a stoic and durable structure; proof positive of our great faith and devotion, spirit and values."

--Gregory K. Lipscomb, Upper Kanawha Valley Economic Development Authority





Project Size: 47,000 gsf

Project Type: Adaptive Reuse of Former Hospital

Project Status: Completed in 2006

Contacts: Jack Caffrey, Economic Development Authority, 304.436.5291

The Stevens project was an endeavor of the McDowell County Economic Development Authority to convert a former hospital into a state correctional facility. Renovations and additions resulted in housing for 334 inmates and support facilities including classrooms, administration, medical, kitchen and laundry.

Each wing of the four-story 1976 building becomes a housing unit consisting of 46 inmates in double-bunk cells constructed of CMU. Each housing unit shares a secure indirect supervision unit that promotes efficient staffing and inmate control. Dining, education and

administration are located on the ground floor in captured open vehicular circulation space beneath the wings of the 1976 building. Vertical inmate movement and perimeter building/site security is monitored by a master control unit strategically located on the ground floor in the heart of inmate circulation. Master control has direct visual observation of visitation, outdoor recreation, dining and education entrance. The facility features state of the art electronic security video surveillance and perimeter management system.

The \$12 million project featured a total reconstruction of all interior architectural, mechanical, electrical, fire protection, and communications systems into the shell of the abandoned hospital.





Project Size: Combined 115,000 gsf

Project Type: New Construction

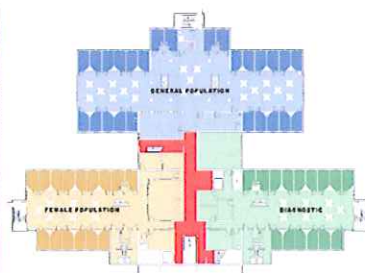
Project Status: Completed in 2001

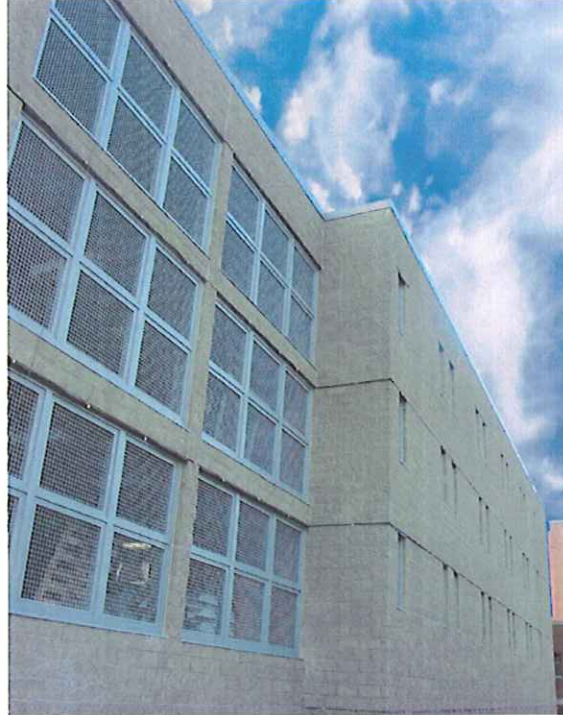
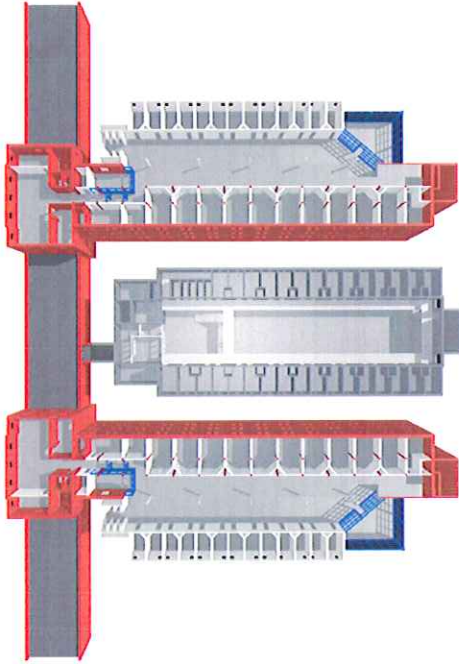
Contacts: Mr. Steve Canterbury,  
Administrative Director  
WV Supreme Court  
304.558.0145

The existing Industrial Home for Youth is a secure compound. In 1999 the facility had a resident capacity of 115 with an inventory of seven structures located along the contours of two distinct ridges. The 2000 additions included a 200 bed, 100,000 sf housing building and a 15,000 sf educational building to a very limited campus site.

Operationally, the housing building called for a design that greatly minimized supervision while maximizing security. Thus, one housing building with limited circulation and a primary security control point was favored over independent housing units. This decision brought on the challenge

of developing a building which fit the existing campus in terms of scale and mass within the limited possible footprint of the building site. The resulting solution is a structure that is layered on the existing site. The front entry element is a one and two story mass that relate in scale to the adjacent buildings. It begins to increase in scale deeper into the building and rises toward the middle and rear consistent with the slope of the contours. Programmatically, the building contains six housing units; main campus kitchen and dining; gymnasium and recreation spaces; campus administration; intake; campus central control; and staff services. Housing units are direct supervision and vary in size from twenty to fifty residents. The higher security units are placed on the upper level to efficiently manage residents via a common central control. Each housing unit is designed with private resident rooms; toilets and showers; counselors' and unit managers' offices; and a covered outdoor recreation area grouped around a central dayroom.





Project Size: 74,500 gsf

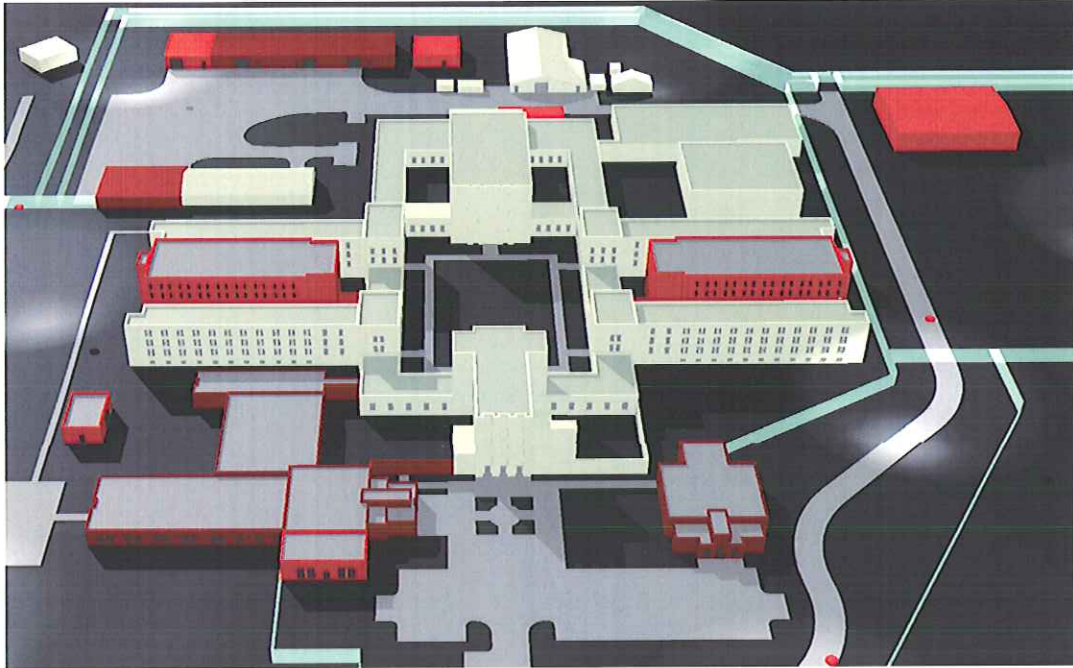
Project Type: Additions/Alterations

Project Status: Completed in 2007

Contacts: Mr. Steve Canterbury,  
Administrative Director  
WV Supreme Court  
304.558.0145

Completed in early 2007, the Dormitory Addition and Renovation project involved a creative lateral expansion of the two three-story dormitory wings and converting them from open, dormitory style housing into more secure two- and six-man housing cells. The primary objective of this phase is to add 200 beds while increasing both staff efficiency and safety. The conversion increases each floor from 45 to 80 inmates, while maintaining current staffing patterns and introducing effective direct supervision. Six-man cells are developed inside the footprint of the 1938 section with steel cell walls that can be accommodated by the existing structural system. Two-man CMU cells are developed within the new footprint. All cells are wet with electronically controlled stainless steel combination toilet/lav units that minimize utility maintenance costs. Secure direct access recreation areas support effective management, allowing inmate outdoor access without mixing population with other housing units.

As second phase of the project included the replacement of two existing 1975 fuel oil 600hp Cleaver Brooks boilers and related support, including electrical service, deaerator tanks, and water softeners. A third phase of the project involved the replacement of the institution's kitchen concrete floor slab, which had suffered extreme deterioration, including cracked beams, erosion and spalling of the concrete from the joists, and exposed and rusted steel reinforcing. Our design solution included the temporary closure of the kitchen during structural repairs, the removal and temporary storage of existing kitchen equipment, the demolition and replacement of nine structural bays with a new elevated slab, new kitchen flooring, and new electrical conduit and mechanical piping.



Project Size: 101,875 gsf

Project Type: Additions/Alterations

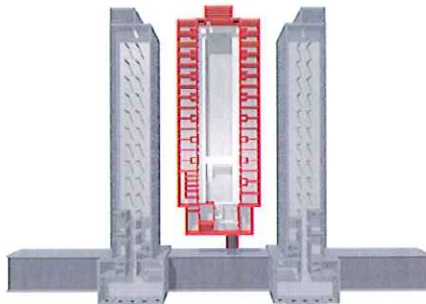
Project Status: Completed in 2000

Contacts: Mr. Steve Cantebury,  
Administrative Director  
WV Supreme Court  
304.558.0145

Originally designed by Tucker and Silling Architects (a forerunner to Silling Associates) in 1938, the Huttonsville Correctional Center has undergone numerous renovations and additions to maintain its usefulness as a primary WV adult male correctional facility.

The Huttonsville Correctional Center Cell Block Addition project involved additions and renovations totaling a combined 101,875 square feet and included two, 120-bed medium security cell blocks placed between the existing dormitory components and linked to the primary corridor system.

Additional project components included prison industries, vocational education, administration renovation and addition, security tower, chapel, laundry renovation and addition, kitchen renovation, security fence and high mast lighting, clinical facilities renovation, and mechanical upgrades. The total construction cost was \$14,048,000 and the project was completed in 2000.





Project Size: 47,400 gsf

Project Type: Renovations

Project Status: Completed in 2004

Contacts: Mr. Steve Canterbury,  
Administrative Director  
WV Supreme Court  
304.558.0145

This \$2.9 million project involved the conversion of the original 45,000 SF regional jail into an intake facility of Corrections. The facility houses 120 inmates for Classification. The renovations included upgrades to the mechanical and electrical systems, physical security, and addition of intake administrative space. Construction was completed in 2005. In 2008, Silling provided comprehensive design service for a 2,400 square foot addition to the Center, featuring a large conference/meeting room, administrative offices, and hallway. The project also involved the expansion of the parking area, adding twentyfive for the West Virginia Division spaces.





Project Size: Combined 100,375+ gsf

Project Type: Additions/Alterations

Project Status: Completed in 1999-2004

Contacts: Mr. William M. Fox,  
WV Division of Corrections  
304.684.5500

The St. Marys Correctional Center is a low medium security facility that was converted in 1998 from an existing state facility for the mentally and physically handicapped. Silling was responsible for the design of renovations to the existing 13 major buildings on the campus, and underground utilities in phases as funding was secured.

Phase I consisted of renovations to four cottage dormitories, the modular dormitory, and the laundry. The existing facilities were upgraded from non-secure facilities and involved interior renovations, MEP, as well as physical and electronic security improvement. Construction was completed in 1998.

Phase II involved the placing of all utilities below grade with a campus duct bank loop routing power and communications; new water supply and sewer lines; and high mast lighting. Construction was completed in 2001.

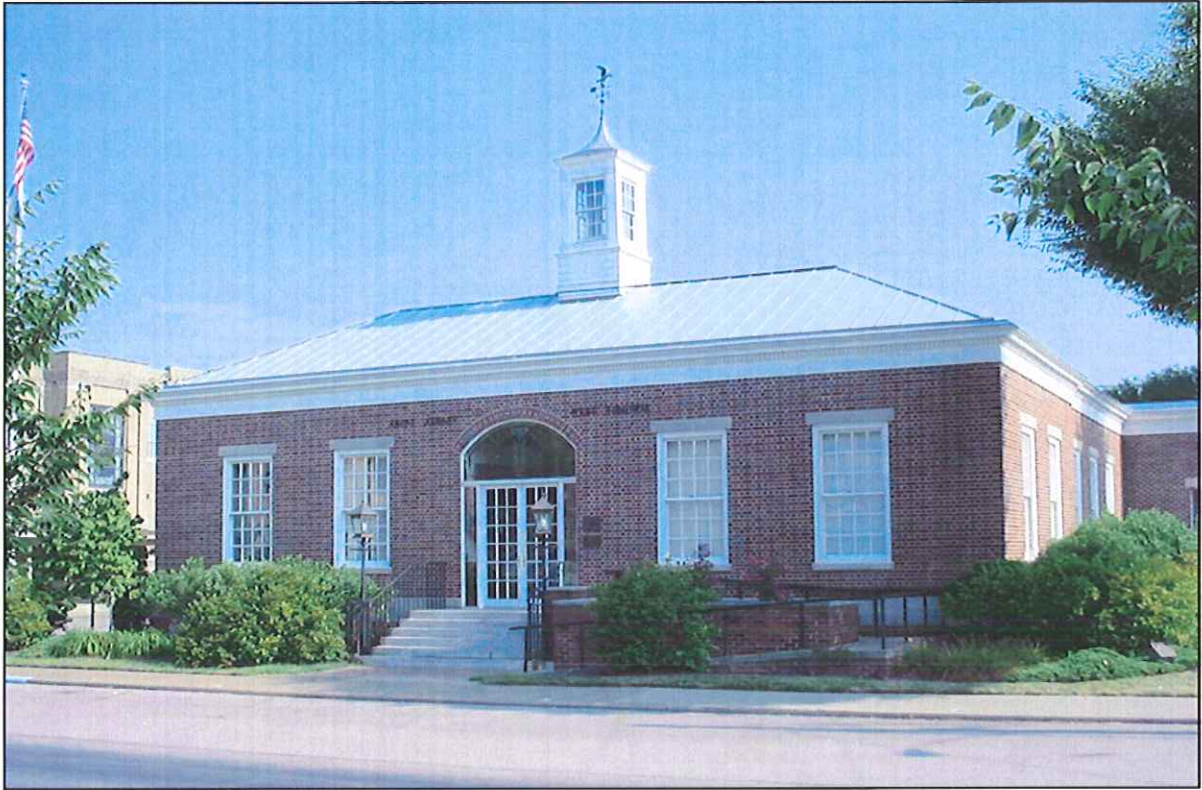
Phase III involved renovations to the North/South Dormitory. Renovations to the existing building included interior upgrades, MEP, and physical and electronic security.

Phase IV consisted of the addition and renovation of the existing Dining Hall, increasing the seating capacity to 200 inmates. Renovations to the existing building included interior upgrades, MEP, and physical and electronic security.



- Anthony Correctional Center - New Domestic Water Treatment Facility
- Anthony Correctional Center - Well Improvements & Water Line Extension
- Anthony Correctional Center - Wastewater Treatment Facility Upgrades
- Beckley Work Release Center - Grease Trap Installation
- Charleston Work Release Center - Adaptive Reuse of Existing Building
- Denmar Correctional Center - Electrical Upgrades
- Fairmont Work Release Center - New Construction
- Huttonsville Correctional Center - Wastewater Treatment Plant Upgrades
- Martinsburg Correctional Center - Renovations & Additions
- Mount Olive Correctional Complex - New Electrical Substation
- Mount Olive Correctional Complex - Special Needs Unit Addition
- Mount Olive Correctional Complex - Command Center
- Parkersburg Work Release Center - Adaptive Reuse of Former Hotel
- Pruntytown Correctional Center - Renovations
- Pruntytown Correctional Center - Electrical Upgrades

## Company Overview



*Chapman Technical Group's St. Albans Office*

**C**hapman Technical Group is a full-service consulting firm with offices in St. Albans, Buckhannon, and Martinsburg, West Virginia offering an extensive range of professional architectural, engineering, interior design and landscape architectural services. Established in 1984, Chapman Technical Group has steadily grown to a diverse firm of professionals, many of whom 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.

Our facilities are both state-of-the-art and architecturally significant. Our St. Albans office is a former post office and is now on the National Register of Historic Places.

*Chapman Technical Group offers a broad range of professional services.*

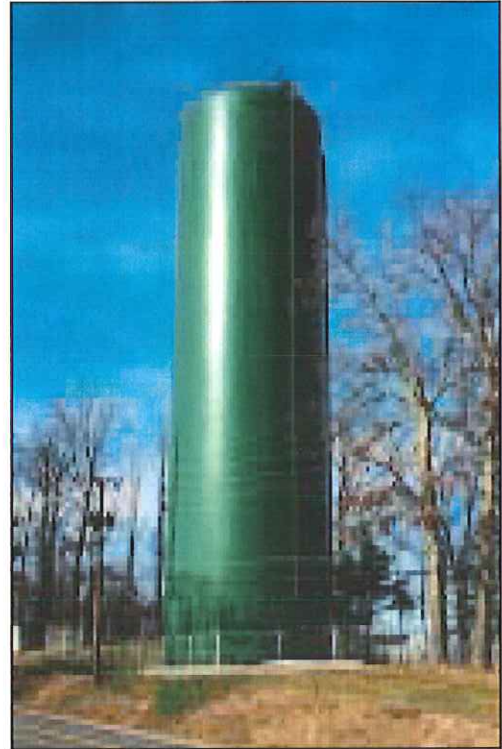
- Airport Design
- Architecture
- Civil Engineering
- Fire Pumping & Protection
- Interior Design
- Landscape Architecture
- Recreational Facilities
- Roads, Highways, & Bridges
- Site Development
- Space Planning
- Surveying
- Water & Wastewater Systems

# Environmental Engineering



**E**nvironmental engineering at Chapman Technical Group primarily involves 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.

- 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
- Stormwater Management Programs



## Water Engineering

Chapman Technical Group's experience with water system projects has encompassed new construction as well as 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 supplying approximately 100,000 people. 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 projects 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 supplying 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.



**ROBERT G. BELCHER, P.E.**  
**Senior Vice President, Engineering  
and Project Officer**

**EDUCATION**

West Virginia Institute of Technology, BSCE, 1983

**REGISTRATION**

Civil Engineering, West Virginia, 1996  
Civil Engineering, Ohio, 2006

**PROFESSIONAL  
HISTORY**

**January 1987 to Present: Chapman Technical Group**  
Senior Vice President and Project Officer.

**June 1984 to January 1987: Regional Intergovernmental Council**  
Planning and Development Council for West Virginia Region III - Metropolitan  
Planning Organization for Charleston, WV, MSA.

27 years professional experience.

**PROJECT  
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 10 MGD, improvements to existing plants, water mains and distribution systems. Water storage projects include glass-lined steel tanks, welded high-strength steel tanks, and elevated pedestal 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, and facility plan updates.

**Miscellaneous:** Design and project management for large highway and bridge projects, airport improvements projects, large stormwater management projects, as well as potable water and wastewater system design for site development projects throughout West Virginia.

**AFFILIATIONS**

Water Environment Association - WV Section  
Contractor's Association of West Virginia - Associate Member  
American Water Works Association - WV Section  
WV Society of Professional Engineers  
American Council of Engineering Companies - ACEC/WV  
WVUIT Civil Engineering Advisory Board  
WV Qualifications Based Selection (QBS) Council

**AWARDS**

George Warren Fuller Award, 2001



**JEFFERY D. EKSTROM, P.E.**  
**Group Manager**  
**Civil/Environmental Engineering**

**EDUCATION**

West Virginia Institute of Technology, BSCE, 1990

**REGISTRATION**

Civil Engineering, West Virginia, 1996  
Civil Engineering, Kentucky, 2011  
Civil Engineering, Ohio, 2011

**PROFESSIONAL  
HISTORY**

**April 1991 to Present: Chapman Technical Group**  
Manager, Environmental Engineering and Project Manager.

**October 1990 to March 1991: City of Charleston, South Carolina**  
Civil Engineer.

**June 1990 to September 1990: Bechtel Savannah River Inc.**  
Civil Engineer for Reactor Restart Group.

21 years of professional experience.

**PROJECT  
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 10 MGD utilizing ultrafiltration membrane treatment technology, improvements to existing plants, water mains and distribution systems. Water storage projects include precast-prestressed concrete tanks, glass-lined steel tanks, welded high-strength steel tanks, and elevated pedestal tanks. Hydraulic analysis of water distribution/transmission systems utilizing water CAD by Haestad methods, EPA Net and KY Pipe.

**Wastewater Systems:** Design and project management for numerous wastewater systems throughout West Virginia. Projects include new tertiary wastewater treatment plants as large as 4.5 MGD, MBR treatment plants to meet Chesapeake Bay treatment requirements, improvements to existing plants, small-flow treatment plants, wastewater collection systems and lift stations, wastewater treatment facility and raceways for fish hatcheries, facility plan updates, and CSO long term control plan updates.

**Miscellaneous:** Design and project management for large stormwater management projects, as well as potable water and wastewater system design for many site development projects throughout West Virginia.

**AFFILIATIONS**

Water Environment Federation (West Virginia)  
American Water Works Association, Secretary-Treasurer/WV Section

**AWARDS**

AWWA George Warren Fuller Award, 2010



**KENNONT T. CHAMBERS, P.E.**  
**Group Manager**  
**Civil/Environmental Engineering**

**EDUCATION**

West Virginia Institute of Technology, BSCE, 1998

**REGISTRATION**

Civil Engineering, West Virginia, 2003 and Kentucky, 2011

Model Law Engineer as determined by the National Council of Examiners for Engineering and Surveying (NCEES) with a NCEES record established

**PROFESSIONAL HISTORY**

**January 2010 to Present: Chapman Technical Group**  
Civil/Environmental Group Manager.

**October 2007 to January 2010: Chapman Technical Group**  
Civil Engineer, Environmental Engineering Department.

**March 2007 to October 2007: National Radio Astronomy Observatory**  
Facilities Engineer.

**February 2002 to February 2007: Chapman Technical Group**  
Civil Engineer, Environmental Engineering Department.

**July 1998 to February 2002: Taylor and Striegel, Inc.**  
Project Engineer for underground utility construction company in West Virginia.

**Summers 1994 to 1996: West Virginia Division of Highways**  
Co-op Engineer - Materials Control, Soils and Testing Division.

13 years professional experience.

**PROJECT EXPERIENCE**

**Water Systems:** Design, construction and construction administration/management of various public and private water system projects including distribution and transmission systems, river crossings, storage tanks, treatment processes, booster stations and automatic meter reading (AMR) systems throughout West Virginia. Hydraulic analysis and modeling of water distribution/transmission systems using WaterCAD.

**Wastewater Systems:** Design, construction and construction administration/management of various public and private wastewater system projects including collection systems, lift stations and treatment processes throughout West Virginia. Hydraulic analysis of wastewater transmission systems including lift stations using WaterCAD.

**AFFILIATIONS**

Water Environment Association  
American Water Works Association - WV, OH, KY and TN Sections  
West Virginia and Ohio Rural Water Associations  
Ohio Rural Water Association

**MISCELLANEOUS**

Class A Commercial Drivers License  
PADI Certified Scuba Diver



**STEPHEN M. JOHNSON, PE**  
**Group Manager**  
**Civil/Environmental Engineering**

**EDUCATION**

West Virginia Institute of Technology, BSCE, 2004

**REGISTRATION**

Civil Engineering, West Virginia, 2009  
Civil Engineering, North Carolina, 2008  
Civil Engineering, Virginia, 2011

**EXPERIENCE**

**January 2009 to Present: Chapman Technical Group**  
Civil Engineer

**October 2006 to January 2009: McKim and Creed**  
Civil Engineer

**May 2004 to October 2006: Chapman Technical Group**  
Civil Engineer

**June 2001 to May 2004: Allegheny Power**  
Gas Support Technician/Intern

7 years professional experience.

**PROJECT  
EXPERIENCE**

**Water Systems:** Overall experience includes planning, design, bidding, and construction administration/management of various public and private water system projects throughout West Virginia, Virginia, and North Carolina. Specific project experience includes distribution systems, river crossings, horizontal directional drills, booster stations, treatment plants, ground and elevated water storage tanks, SCADA systems computer modeling, treatment process evaluation, and problem troubleshooting in existing systems.

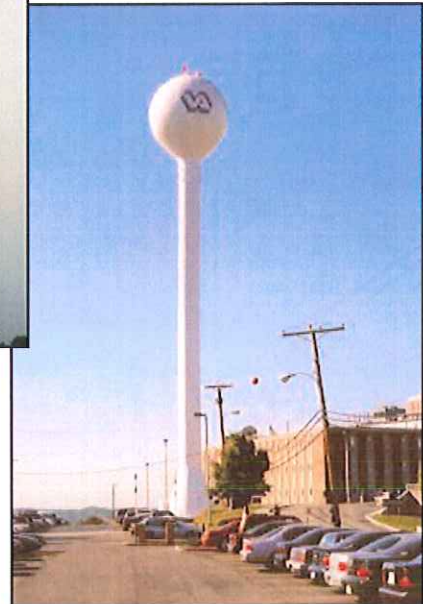
**Wastewater Systems:** Overall experience includes comprehensive system master plans, design, bidding, construction administration/management of various public and private wastewater system projects throughout West Virginia, Virginia, and North Carolina. Specific project experience includes gravity and low-pressure collection systems, pump stations and force main transmission systems, treatment plant process evaluation and design, trenchless pipeline rehabilitation, bypass pump system design, odor and corrosion control, effluent infiltration ponds, decentralized and alternative on-site disposal systems, and SCADA systems.

**Stormwater Systems:** Overall experience includes comprehensive system master plans, design, bidding, construction administration/management of various public and private stormwater system projects throughout West Virginia, Virginia, and North Carolina. Specific project experience includes drainage basin hydraulic analysis, stormwater collection, detention and BMP system design, construction stormwater management plan preparation, and MS4 permit guidance.



## Huntington VA Water System Improvements

96065



**Huntington VA Medical Center**  
1540 Spring Valley Drive  
Huntington, West Virginia 25704

Project included design and periodic construction site visits for demolition of existing 100,000 gallon elevated water tank including lead-paint abatement, new 150,000 gallon single pedestal spherical water storage tank (150 feet low-water level) to provide increased pressure and storage volume, renovation of 500,000 gallon in-ground reservoir, installation of approximately 3,300 feet of polyethylene water main, miscellaneous improvements to existing booster pump house, site work for construction of an additional parking lot, and radio telemetry system with central controls for monitoring of tank levels and remote control of booster pump station, including alarm functions.





**Elkins Road Public Service District**  
Route 2, Box 105  
Buckhannon, West Virginia 26201

Design and construction observation services for a new 218,000 gallon factory-coated bolted steel potable water tank and tank level/booster station telemetry control system. The construction included the 20'-0" diameter x 97'-0" high tank, site access road, site piping and fence. The water storage tank was one (1) of five (5) construction contracts included in PHASE II water system improvements project. The total project also included distribution system extensions and SCADA system.



**City of Thomas**  
Post Office Box 248  
Thomas, West Virginia 26292

Design and construction observation services for the replacement of a 150,000 gallon aged and deteriorated water storage tank with a new 157,000 gallon factory-coated bolted steel potable water storage tank and tank level/high service pump telemetry control system. The storage tank is 33'-0" diameter x 24'-0" high and the tank overflow matches an existing tank that remained in service adjacent to the new tank.



**Culloden Public Service District**  
Post Office Box 405  
Culloden, West Virginia 25510-0405

Design and construction observation services for the replacement of a 200,000 and a 100,000 gallon aged and deteriorated water storage tanks with a new 500,000 gallon factory-coated bolted steel potable water storage tank and tank level/high service pump telemetry control system.

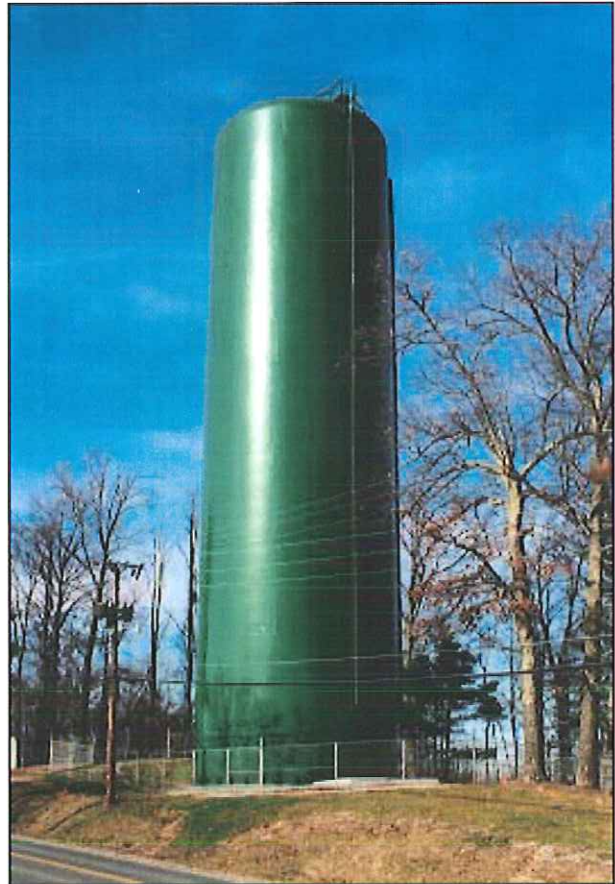


### Prosperity Water Tank

91032

This new 1.0 million gallon tank is 36'-0" diameter and 133'-0" high and was completed in the summer of 1993. The new tank is constructed of high-strength steel with a self supporting ellipsoidal roof. The foundation consists of nearly 250 cubic yards of concrete and nearly 73,000 pounds of reinforcing steel to resist overturning. The new tank was constructed with an overflow elevation of 50 feet higher than the tank which it replaced. This eliminated the need of the booster pump station that was used while the old tank was in service, as well as doubled the storage capacity in this portion of the system. The tank interior is finished with a two-component, instant setting, 100% solids, high-build polyurethane coating which allows direct application to metal and can obtain over 15 mils DFT in a one coat application.

**Beckley Water Company**  
Post Office Drawer U  
Beckley, West Virginia 25801





**Beckley Water Company**  
Post Office Drawer U  
Beckley, West Virginia 25801

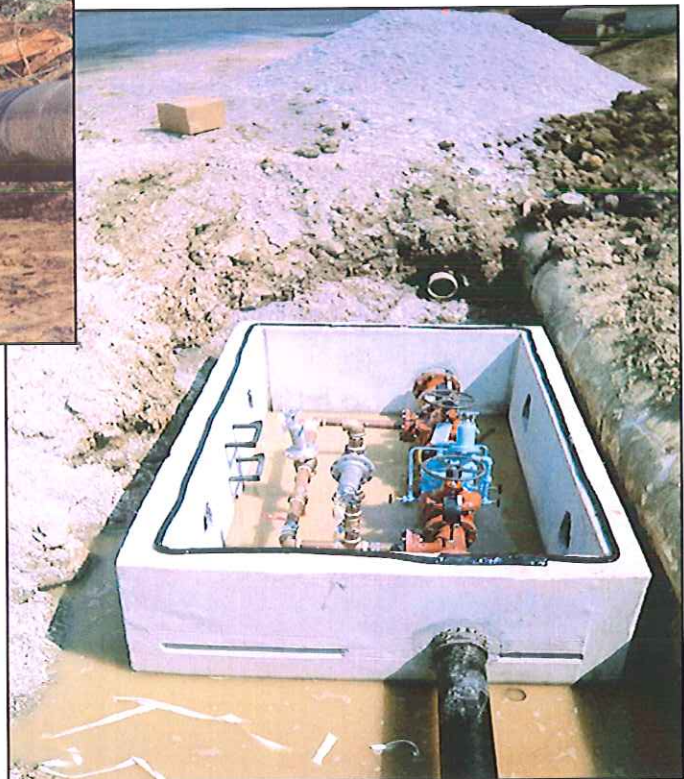
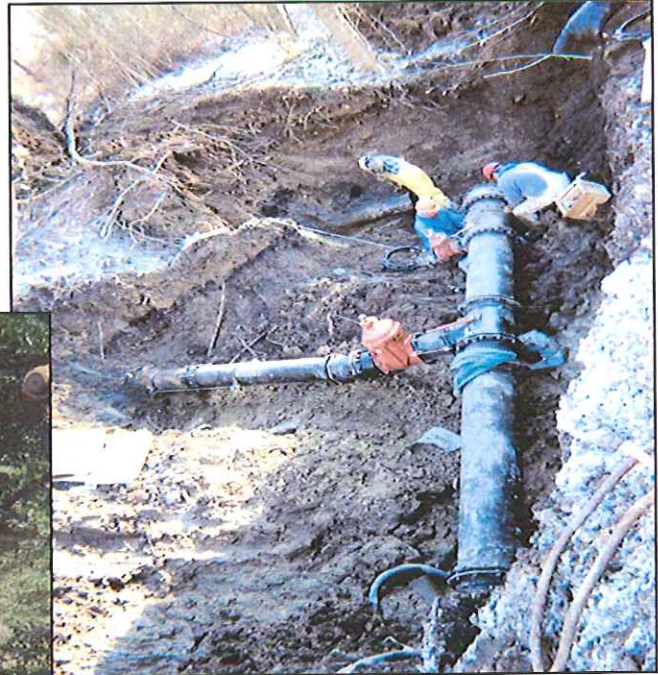
This new 83'-0" diameter by 50'-0" high, 2 million gallon tank replaced an aged 1.0 million gallon water storage tank which experienced a catastrophic failure in the 1970's and was subsequently repaired. The new tank is constructed of high-strength steel with a self supporting ellipsoidal roof, and is equipped with an oversized integral valve vault for the 24" ductile iron vault piping and valves. The vault also contains lighting, receptacles, access hatches, floor drains, and houses the radio telemetry equipment. The tank interior is finished with a two-component, instant setting, 100% solids, high-build polyurethane coating which allows direct application to metal and can obtain over 15 mils DFT in a one coat application.

# Water Storage and Distribution



## Fairmont Water Distribution and Transmission System

97024



City of Fairmont  
Post Office Box 1428  
Fairmont, West Virginia 26555