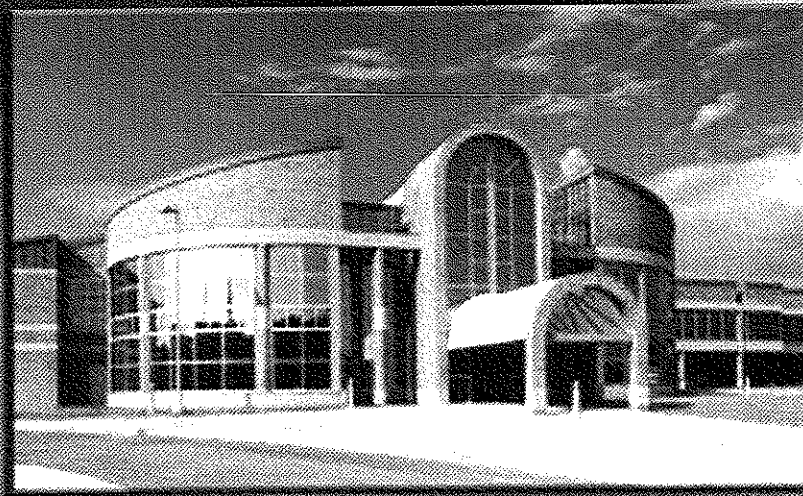


Expression of Interest/Statement of Qualifications
Architectural & Engineering Services

William R. Sharpe, Jr. Hospital Patient Care Unit



December 4, 2008



Hasenstab Architects, Inc.
190 N. Union Street, Suite 400 . Akron, Ohio
(330) 434-4464 . www.hainc.cc

HASENSTAB

ARCHITECTS, INC.



December 3, 2008

Ms. Roberta Wagner, *Purchasing Division*
2019 Washington Street, East
Charleston, West Virginia 25305-0130

Subject: Request for Architectural & Engineering Services/Expression of Interest – William R. Sharpe, Jr. Hospital - Patient Care Unit

Dear Ms. Wagner & Selection Committee,

Thank you for your consideration of Hasenstab Architects, Inc. and the opportunity to submit our Expression of Interest and qualifications for the William R. Sharpe, Jr. Hospital - Patient Care Unit project. We are grateful to be included among your list of firms specializing in healthcare and behavioral health design.

Our firm has extensive experience with projects which range from small renovation projects to multimillion-dollar expansion projects. The construction cost of this experience is more than \$175 million within the last five years alone, which has earned our firm a ranking as one of the top 100 healthcare design firms as ranked by *Modern Healthcare*. Nearly half of our staff of 42 is registered — a significant ratio compared to other firms — and three quarters of our staff are dedicated to healthcare design. Additionally, many of our healthcare projects are currently in construction or have been recently completed, which translates into a current workload and project team who are available upon notification to proceed with your project.

Having worked on numerous psychiatric and behavioral health unit projects at hospitals and health systems — and as architect of record with the Ohio Department of Mental Health (ODMH) — the Hasenstab Architects project team is an integration of professionals with planning, design and relevant experience. Howard J. Gershon, FACHE and New Heights Group will provide consultation as needed for the design and layout of your new patient unit. Mr. Gershon has more than 30 years experience as a healthcare consultant — having worked with more than 200 psychiatric and substance abuse providers nationwide, including both freestanding and hospital-based services. Scheeser*Buckley*Mayfield, LLC has a longstanding relationship with Hasenstab Architects on healthcare projects, as well as on ODMH projects.

The Hasenstab Architects team provides a commitment to quality, competency and cost control. We provide in-house construction management advisory services — including cost estimating, constructability and scheduling services — through Thomas Walker, and Ben Grow, PE can provide in-house value engineering and peer review services.

We propose an interactive design approach for your project. William R. Sharpe, Jr. Hospital representatives will become active participants in the development of solutions during on-site work sessions. The Hasenstab Architects project team will set up a temporary office within your current facility. Owner representatives, staff and end users are invited to work directly with us to identify issues and goals related to this project. By actively participating in the process, we are successful in achieving immediate decision making, consensus building and problem solving — a team approach which is responsive to a variety of staff work schedules, provides streamlined communications, and enhances creativity. On-site design is highly interactive and very effective.

We hope that you will review this information favorably, with the possibility of advancing to the next stage of your selection process. Should you have any questions in the meantime, please feel free to contact us at (330) 434-4464.

Sincerely,

David L. Everhard, AIA, NCARB, *Principal, Hasenstab Architects, Inc. & Registered Architect — State of West Virginia*

Terry L. Fercana, *Director of Business Development & Marketing*



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

Request for Quotation

RFQ NUMBER:
WSH90086

PAGE:
2

ADDRESS TO BE RESPONDED TO ATTENTION:
ROBERTA WAGNER
304-558-0067

RFQ COPY
TYPE NAME/ADDRESS HERE

HEALTH AND HUMAN RESOURCES
WILLIAM R. SHARPE JR. HOSPITAL
CENTRAL RECEIVING
936 SHARPE HOSPITAL ROAD
WESTON, WV
26452 304-269-1210

DATE REPLIED	TERMS OF SALE	SHIP VIA	DATE	FREIGHT TERMS
11/10/2008				

BID OPENING DATE: 12/01/2008 BID OPENING TIME: 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>VENDOR MUST CLEARLY 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.</p> <p style="text-align: center;"><i>Tommy L. Fucara</i> SIGNATURE</p> <p style="text-align: center;">HASENSTAD ARCHITECTS, COMPANY INC.</p> <p style="text-align: center;">12/3/08 DATE</p> <p>REV. 11/96</p> <p style="text-align: center;">END OF ADDENDUM NO. 1</p> <p style="text-align: right; font-size: 2em; opacity: 0.5;">RECEIVED</p> <p style="text-align: right; font-size: 1.2em; opacity: 0.5;">2008 DEC -4 A 8:36</p> <p style="text-align: right; font-size: 1.2em; opacity: 0.5;">PURCHASING DIVISION STATE OF WV</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: _____ TELEPHONE: _____

TITLE: _____ FEIN: _____ ADDRESS CHANGES TO BE NOTED ABOVE

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

PROJECT TEAM

■ William R. Sharpe, Jr. Hospital

– *Owner/Client*

936 Sharpe Hospital Road
Weston, West Virginia 26452
304.269.1210

■ Hasenstab Architects, Inc.

– *Architectural & Interior Services; Structural Engineering*

190 N. Union Street, Suite 400
Akron, Ohio 44304
330.434.4464 330.434.8546 FAX

David L. Everhard, AIA, NCARB – *Principal-in-Charge*

Terry L. Fercana – *Director of Business Development
& Marketing*

■ New Heights Group

– *Behavioral Health Consultant*

41 Sundance Drive
Santa Fe, New Mexico 87506
505.690.8433

Howard J. Gershon, FACHE – *Principal*

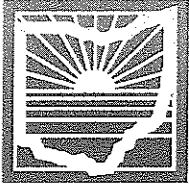
■ Scheeser*Buckley*Mayfield LLC

– *Mechanical, Electrical & Plumbing Engineering/
Telecommunications*

1540 Corporate Woods Parkway
Uniontown, Ohio 44685
216.896.4664

Michael P. Wesner, PE, LEED AP – *Principal-in-Charge*





Ohio Department of Mental Health

Heartland Behavioral Healthcare

Main Office

Box 540
Massillon, Ohio 44648

Phone: (330) 833-3135
Fax: (330) 833-6564
TDD: (330) 832-9991

Community Support Network

401 Market Ave. North
Suite 105
Canton, Ohio 44702

Phone: (330) 455-1556
Fax: (330) 455-7033

Medina Child and Family Intervention Team

3076-A Remsen Road
Medina, Ohio
44256-9225

Phone: (330) 722-0750
Fax: (330) 723-0068

September 17, 2001

Mr. Robert Medziuch, AIA
Hasenstab Architects, Inc.
190 N. Union Street, Suite 400
Akron, OH 44304

Dear Bob:

As our choice in an architectural firm for the residential units and program space, I want to convey to you the positive comments we received from the JCAHO surveyors during our recent survey of September 5 through 7, 2001.

They were impressed and expressed their overall approval of the design and function given the physical limitation and the amount of changes in the last three years. They also were very complimentary of the overall appearance, bathroom design and the considerations for patient safety for our special population. The best comment may have been that, "it did not look or feel like a psychiatric facility. It was very therapeutic and residential in its appearance while still being secure."

We received two "good practices" for the environment that were due in a large part to our association with your firm and the collaboration that has taken place during the programming and design phases of our three projects.

Thank you again for your and your associates' fine work.

Sincerely,

Ron Deal
Assistant Chief Executive Officer/Operations

RD:imd

RECEIVED

SEP 20 2001

HASENSTAB ARCHITECTS, INC.



Ohio Department of Mental Health

30 East Broad Street
Columbus, Ohio 43215-3430

Phone: (614) 466-2596
TDD: (614) 752-9696
Fax: (614) 752-9453
www.mh.state.oh.us

To: Hasenstab Architects, Inc.
Bob Medziuch, Bill Ahern and the entire Design Team

From: Michael F. Hogan, Ph.D., Director
Ohio Department of Mental Health

Subject: Heartland Behavioral Healthcare
Campus Consolidation, Phase IV

A LETTER OF COMMENDATION

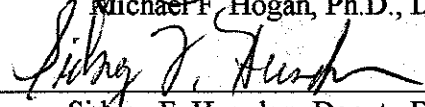
The Open House at Heartland Behavioral Healthcare to commemorate the opening of the new Treatment Mall, Gymnasium/Assembly and Maintenance/Receiving Buildings on October 30, 2003 was truly a momentous occasion. As visitors toured the facilities, it was clear from their comments how impressed everyone was with the new environment. The spaces indoors and out flow into and complement one another as a result of a layout and orientation that are "intuitively readable."

Your ability to consider existing parameters and willingness to listen to our staff and the consumers who use our services were central to the successful culmination of this project. Your grasp of Treatment Mall concept in a Behavioral Healthcare Environment is clearly evidenced in the building and landscape spaces. Your attention to detail and interior design will reinforce the efforts of Heartland's staff to deliver high quality services, and will assist clients in their journey of recovery from mental illness. You have created an environment that is truly responsive to and reflective of their needs.

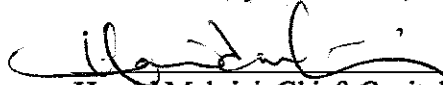
The Ohio Department of Mental Health wishes to extend our sincere thanks for your work on this project and commends you on a job exceptionally well done.



Michael F. Hogan, Ph.D., Director



Sidney F. Herndon, Deputy Director



Hamid Mehrizi, Chief, Capital Development

HEALTHCARE REFERENCES

We encourage you to contact any or all of the following clients for whom Hasenstab Architects, Inc. has provided or is currently providing professional services:

■ **Akron Children's Hospital**

Mr. James Madden, *Director of Engineering & Facility Repair*
(330) 543-8857

■ **Akron General Medical Center**

Mr. Joseph Plavecski, *Director of Plant Operations*
(330) 344-6559

■ **Aultman Health Foundation**

Mr. Ed Friedl, PE, *Vice President of Engineering Services*
(330) 363-3427

■ **Camden-Clark Memorial Hospital**

Ms. Joyce D. Reel, *Facilities Manager*
(304) 424-2396

■ **Marymount Hospital**

Mr. William Keckan, *Vice President of Operations*
(216) 587-8372

■ **MedCentral Health System - Shelby Hospital**

Mr. Ron Distl, *Vice President & Chief Operating Officer*
(419) 342-1701

■ **Ohio Department of Mental Health**

Mr. Hamid Mehrizi, *Chief of Capital Development*
(614) 466-3473

■ **Summa Health System/Akron City Hospital**

Mr. Charles "Bud" Truax,
Executive Director of Facilities Construction
(330) 375-3904

■ **Testa Companies**

Mr. Paul Testa, *Chief Executive Officer*
(330) 928-1988

■ **Union Hospital**

Mr. Robert J. Craig, CHE,
Vice President of Professional Services
(330) 364-0810

■ **Veterans Affairs Medical Center**

Mr. Dave Sabol,
Chief of Engineering Service
(440) 526-3030 (x6162)



PROFILE

In 1982, Emil Hasenstab founded Hasenstab Architects, Inc. *Our mission is to provide professional services that promote quality design and architecture, while providing creative solutions in meeting client needs.*

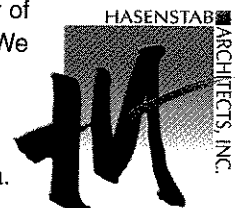
Today, Hasenstab Architects provides a variety of in-house services, which include master planning, programming, cost estimating, project management and architectural services — from design through construction administration — interior design, civil/structural engineering and facility management. Through a network developed from years of successful project experience, we also offer our clients mechanical, electrical, landscaping and other specialized consulting services needed to support the success of each project.

We have provided professional services for a long list of healthcare, laboratory and higher education clients, representing a wide range of building types. The majority of our work is commissioned by repeat clients which include:

- **Akron Children's Hospital (Since 1986)**
- **Akron City Hospital (Since 1986)**
- **Akron General Medical Center (Since 1982)**
- **Aultman Hospital (Since 1982)**
- **BF Goodrich (Since 1984)**
- **Case Western Reserve University (Since 1988)**

Our staff has increased steadily to meet client demands. Currently, our staff includes 19 registered architects, five interns, three interior designers, a construction manager as advisor, two civil/structural engineers, a computer systems manager, two draftsman, four students and six support personnel. All projects are produced on our Computer Aided Drafting (CAD) system. We have made an aggressive effort to maintain an up-to-date computer network so that clients are provided with an efficient, accurate production of documents. The efficiency gained with effective CAD management allows us more quality assurance time while maintaining tight schedules.

Our office currently occupies 9,000-square feet on the top floor of a renovated 1920s building in the University Park neighborhood adjacent to downtown Akron. Our firm was responsible for the interior design of all tenant spaces in this building as well as our own office, which received a design award from the Akron Chapter of the American Institute of Architects. We believe that our office is an example of our creative abilities as well as a symbol of our commitment to and permanence in this geographical area.



OUR PHILOSOPHY

Our philosophy is based upon a commitment to team participation with each of our clients. We encourage your representatives to be an integral part of our design team and to be involved in the planning process from initiation to project completion. The incorporation of ideas from those who staff and operate your facility is considered essential in achieving a design that is cost effective, functionally efficient and aesthetically pleasing.

We also believe that staff members can best communicate to us information that is invaluable regarding efficiency of operation and maintenance concerns. This input, combined with our design and planning expertise, will result in a project that is responsive to your goals and vision.

Another important element of our philosophy is the involvement of a firm Principal throughout the entire project. This involvement affirms that all aspects of the project are carefully coordinated and scheduled, and that continuity and accessibility will be maintained from initial interview to post-construction evaluation.

Our team understands that cost and schedule control are paramount to the success of your project. Our diligence in both of these areas is confirmed by the repeat work awarded to us by our clients. We invite you to contact one or more of our references to confirm this fact.



RANGE OF SERVICES

Our firm provides a complete range of professional services, spanning the full project development range — from planning to design and throughout construction completion. These services also include post-occupancy support services and facility management.

Planning/Pre-Design

- *Programming & Analysis*
- *Building Surveys*
- *Needs Assessment/Analysis*
- *Space Planning/Space Utilization*
- *Code Analysis/ADA Analysis*
- *Site Planning/Parking Facilities*

Design

- *Architectural Design*
- *Interior Design*
- *Civil/Structural Design*
- *Historic Preservation*
- *Master Planning*
- *Furniture, Fixtures & Equipment*
- *Renovation Expertise*
- *Sustainable Design/LEED Recommendations*

Construction Management

- *Contract Recommendations*
- *Estimating*
- *Scheduling*
- *Constructability Reviews*
- *Liaison to Contractors*
- *Bid Package Preparation*

Contract Documents

- *Construction Drawings*
- *Specifications*

Construction Administration

- *Site Observation*
- *Project Close Out*
- *Project Management*
- *Contract Negotiations*
- *Project Scheduling*
- *Cost Estimating*

Post Occupancy

- *Post-Occupancy Support*
- *Warranty Review*
- *Facilities Management*



RANGE OF SERVICES – INTERIOR DESIGN

Our firm provides a complete range of commercial interior design services, spanning all project scopes and budgets. Services range from planning and budgeting to design through construction documentation. Additional areas of focus include green design and support services such as artwork selection and signage design.

Planning

- *Audit and evaluate existing facilities for interior reconfiguration or facility relocation*
- *Programming - information gathering and evaluation of Client's needs and goals*
- *Space Planning - reorganization of interior to better utilize existing space and for the purpose of increasing staff efficiency and improving overall aesthetics*
- *Cost estimating for interior reconfiguration; includes construction costs and/or furniture, fixtures and equipment*

Design

- *Coordination, design and/or detailing of interior elements such as non-structural partitions, casework, interior doors and windows, and furnishings*
- *Finish material selection, color palette selection and specification for both new construction and existing facilities*
- *Furniture and fabric selection, specification, and bid/vendor coordination (optional)*
- *Preparation of construction drawings, which could include floor plans, reflected ceiling plans, elevations, details and furniture plans*
- *Decorative light fixture selection and specification*

Additional Services

- *Design and specification of window treatments*
- *Selection and coordination of artwork and accessories*



PROJECT MANAGEMENT SOFTWARE

We use Primavera's SureTrak Project Manager to plan and control project schedules. This software enables us to track the progress of a project throughout various stages of development – from initial planning, design and construction – to project completion, presenting information in a clear and understandable format.

Our offices are fully integrated electronically and are connected via the Internet for immediate project information sharing and retrieval. We utilize the Windows operating system, as well as Microsoft Office packages of Word, Excel, Access, Outlook and PowerPoint.

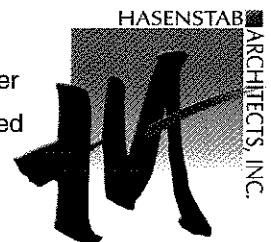
For graphic design-oriented projects, we maintain updated versions of Adobe Photoshop and InDesign, as well as QuarkXPress software.

Our 3-D modeling software programs include Sketch-Up, Arris, AutoCad and Studio Viz, which enable us to create visual renderings and movies in a three-dimensional format. This allows the client to have visual confirmation and interaction with the project design.

We currently utilize Arris and AutoCad software packages to develop our construction documents. All of our design and technical staff operate within a CAD environment, with in-house capabilities for printing, plotting, 3-D modeling and graphic design.

We have recently committed to Revit Architecture & Structure – incorporating the benefits of BIM (Building Information Modeling) as our firm moves forward. The BIM process greatly reduces errors and consolidates time, which translates into increased savings for the Owner.

We have made aggressive efforts to maintain an up-to-date computer network so that clients are provided an efficient, accurate production of documents.



SUSTAINABLE DESIGN SERVICES

Hasenstab Architects, Inc. (HAI), currently has three LEED-accredited professionals on staff – Scott D. Lukens, AIA, NCARB, LEED AP, Lucas W. Kraft, Associate AIA, LEED AP and Chitra Matthai, ASID, LEED AP. More than half of our remaining staff is currently in the process of also attaining LEED accreditation with the ultimate goal of 100% staff accreditation.

HAI is constantly seeking environmentally responsible building design and construction solutions. The Green Team meets regularly to discuss current sustainability trends, ecological economics, construction ecology and life-cycle assessments. HAI has also incorporated a “Green Library” into the office.

Hasenstab Architects places importance on educating clients about the availability of sustainable materials, energy conservation systems and ecological implications surrounding the built environment, and has incorporated environmentally responsible materials and systems into many building designs and construction projects. Our interior design department has also integrated many sustainable design finishes into project specifications. To investigate upfront cost implications and lifecycle costs with the inclusion of sustainable systems and materials, HAI has added Thomas A. Walker to our staff.

HAI is currently working on projects for the Akron Public Schools and the Ohio School Facilities Commission which incorporate sustainable systems and materials. Some of these systems and materials include: brick/masonry, low-e/insulated solar glazing, glass block, recyclable/sustainable interior finishes, low-flow plumbing fixtures with on/off sensors, variable speed pumps/fans, HVAC economizer with night setback mode and occupancy light sensors with mechanical systems in compliance with ASHRAE 90.1.



PROJECT DELIVERY METHODS

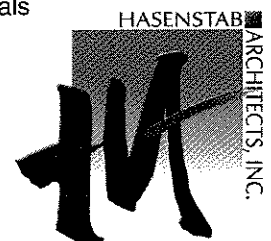
Our firm utilizes several delivery methods, one or more which would be implemented for your project.

■ **On-Site Design** – An approach to programming, planning and design where clients become active participants in the development of solutions during on-site work sessions. The Hasenstab Architects Project Team sets up a temporary office -- usually within the client's current facility. Owner representatives, staff and end users are invited to work directly with the Project Team to identify issues and goals related to the project. They actively participate in the process while realistically considering budget, schedule and volume issues. The benefits of this process include: immediate decision making, consensus building and problem solving; a team approach which is responsive to a variety of staff work schedules; streamlined communications; and enhanced creativity. On-site design is highly interactive. We respect everyone's input – Owner, end users, patients, the community, engineers, consultants and others. The combined and refined ideas from those who staff, operate and use your facility is considered essential in achieving a design which is cost effective, functionally efficient and aesthetically pleasing.

■ **Process Mapping** – An approach to documenting the actual steps, activities and time required to complete a task within an actual workspace, involving direct interaction between Project Team and Owner/end users. Every organization is a collection of processes – activities performed which support staff interaction and patient care. The Hasenstab Architects Project Team follows, observes and documents the flow of activities within each workspace – giving an accurate assessment of work flow and staff/patient interaction – which in turn helps to make the right decisions in designing and maximizing your workspaces.

■ **Mock-Up Rooms** – A tried-and-true, hands-on method of understanding layout and workflow by constructing key areas at full scale with a fully equipped degree of detail.

■ **Project Management Tools** – A Project Issues List is used to track issues identified during the design process. This list includes a description, assignments and responsibilities, and established dates/goals for resolution. This list will be updated and is an excellent resource for documenting key decisions, setting goals and determining outcomes.



PROJECT DELIVERY METHODS – page 2

■ **Healthcare Design Studio Meetings** – Our healthcare studio meets regularly to exchange information about individual projects and "cross pollinate" ideas and opportunities.

Detailed *Meeting Minutes* will be prepared by our office during the course of the design phase to facilitate concise documentation of attendance and discussions. These minutes will be distributed to all attending parties.

Room Data Sheets will be used to assist with documenting detailed room requirements during the design phase. Details will include all furniture and equipment and vendors/ companies responsible for supplying and installing each item. All plumbing, HVAC, electrical and data requirements will be indicated to facilitate coordination with the entire design team, as well as Owner representatives. Door types, finish materials and detailed design information will be compiled in one location so that Project Team members are aware of the project scope.



PERSONNEL BY DISCIPLINE

- 19 Registered Architects
 - 5 Interns
 - 3 Interior Designers
 - 1 Construction Manager
 - 2 Civil/Structural Staff
 - 2 CADD Administrator/Draftsman
 - 4 Students
 - 4 Support Staff
 - 2 Marketing Staff
-

42 Total Staff

We are one of Northeast Ohio's largest firms in number of registered architects, ranked sixth according to *Crain's Cleveland Business*. Our staff has grown steadily throughout our history to parallel the addition of new clients and an increase in projects.

Due to our sizable staff, we have collective capabilities to execute projects efficiently and effectively, and we are prepared to address your project requirements in a timely, productive and creative manner.





DAVID L. EVERHARD, AIA, NCARB

Responsibilities

Principal, Hasenstab Architects, Inc.,

Registrations

States of Ohio, Pennsylvania, West Virginia & Florida
NCARB Certification

Experience

Hasenstab Architects, Inc. - 1987- present
Cedarwood Construction Company, Inc. - 1984- 87
William Gould Associates, Inc. - 1981- 84
Robert L. Gaede Architects - 1978- 81

Professional & Community Affiliations

American Institute of Architects
AIA Ohio; AIA Akron
Ohio Hospital Association
American Society for Healthcare Engineering (ASHE)
Rotary Club of Cuyahoga Falls

Education

Kent State University, 1976, Bachelor of Architecture
University of Florida, 1978, Master of Architecture



Project Experience

During his 21 years with Hasenstab Architects, Inc., Mr. Everhard has focused on healthcare design and has been Project Architect for many hospital renovation and addition projects, as well as a wide variety of building types, including multi-family housing, schools and office buildings.

■ Akron General Medical Center - Akron, Ohio

- 100 Building Renovation (2100-9100)
- 9100 Long Term Care Unit
- Surgery Support Renovation
- Cafeteria Renovation
- Neurology, Endoscopy & Cardiopulmonary Planning
- Special Care Nursery & Maternity Wing Renovation
- 6300/6400 Psychiatric Unit Renovation
- Surgery and ICU Waiting Rooms
- Cardiac Surgery Recovery Suite
- Mobile MRI Unit & Mobile Lithotripter Unit
- Fifth Floor Radiology Renovation
- First Floor Outpatient Services Renovation
- First Floor Cancer Center Renovation & Outside Treatment Garden
- 3200 Wing ICU Unit Renovations
- Cardiac Catheterization Labs
- 1200 Wing Laboratory Renovation
- 4300 Progressive Care Unit
- Maternity Unit/LDR Expansion
- Surgery Suite
- Wound Center
- 4200 Wing Renovation
- Cardiac Functions Renovation
- Heart/Vascular Center
- Campus Master Plan

■ Coshocton County Memorial Hospital - Coshocton, Ohio

- Extended Care Facility Addition and Renovation
- Master Planning
- Pharmacy/Oncology and Chemotherapy Renovations
- West Addition for Radiology, Maternity Patient Rooms
- Outpatient Registration and Admission
- Medical Offices for MOB #3
- MRI Unit Renovation

■ University Hospitals Health Systems - Cleveland, Ohio

- St. Michael's Emergency Department Renovation
- Ashtabula Urgent Care and Medical Office Building
- Extended Care Facility - Main Lobby Renovation

■ Richmond Heights Hospital - Richmond Heights, Ohio

- Medical Office Building Renovation Phase I & Main Entry Addition

■ Community Health Partners - Oberlin, Ohio

- Allen Medical Center Surgery Expansion & Master Planning

■ Sistersville General Hospital - Sistersville, West Virginia

- Facility Replacement

■ Marymount Hospital - Garfield Heights, Ohio

- Psychiatric Unit Master Plan
- Facility Expansion for ICU & Emergency
- Two East Patient Wing
- Patient First (Planetree) Facility Master Plan
- Endoscopy/Lab Renovation
- Surgery Master Plan

■ MedCentral Shelby Hospital - Shelby, Ohio

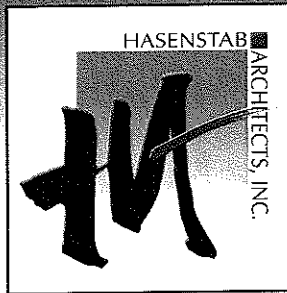
- Ambulatory Surgery Expansion
- Facility Masterplan

■ MedCentral Mansfield Hospital - Mansfield, Ohio

- Maternity/OBGYN Unit Renovation

■ Camden-Clark Memorial Hospital - Parkersburg, West Virginia

- MOB Tenant Buildout
- Psychiatric Unit Renovation
- Transportation & Phlebotomy Addition



ROBERT E. MEDZIUCH, AIA, ACHA

Responsibilities

Principal, Hasenstab Architects, Inc.

Registrations

States of Ohio & Indiana
Certified Construction Specifier
NCARB Certification

Experience

Hasenstab Architects, Inc. - 1986 - Present

Professional Affiliations

American Institute of Architects
AIA Ohio; AIA Akron
American College of Healthcare Architects (ACHA)
Construction Specifications Institute

Education

Kent State University, 1984, Bachelor of Science
Kent State University, 1985, Bachelor of Architecture



Project Experience

Mr. Medziuch has 22 years experience in project management and specification preparation. He has served as project architect for numerous healthcare projects and clients, including Akron City Hospital, Akron General Medical Center, Akron Children's Hospital, Kaiser Permanente and Aultman Hospital in Canton. He is a board certified member of the American College of Healthcare Architects.

In addition to his duties as project principal, Mr. Medziuch is the Principal in Charge of quality control and project specifications. He has passed all certification requirements for the Construction Specifications Institute and is registered as a Certified Construction Specifier.

■ Akron City Hospital/Summa Health System - Akron, Ohio

- Cancer Center
- Surgery Pavilion & Emergency Center
- Cardiac Catheterization Suite
- Surgical Support Renovation
- Summa Center for Corporate Health
- St. Thomas Hospital MRI Renovation

■ Aultman Health Foundation - Canton, Ohio

- 2010 Expansion
- Woodlawn Skilled Nursing Facility
- Aultman West - Outpatient Health & Wellness facility
- Linear Accelerator
- Patient Unit Renovations - 5 South & 6 East
- Wound Care
- Breast Center

■ Pomerene Hospital - Millersburg, Ohio

- LDRP Suite
- Hospital Expansion

■ Ohio Department of Mental Health - Columbus, Ohio

- Mental Health Hospital Facility - Planning Services
- Northcoast Behavioral Healthcare Systems - Facility JCAHO Assessment
- Heartland Behavioral Healthcare - Phase IV Campus Consolidation & Patient Unit Renovations

■ Wooster Community Hospital - Wooster, Ohio

- Two-Story Patient Floor Addition



WILLIAM E. AHERN, AIA

Responsibilities

Project Architect, Hasenstab Architects, Inc.

Registrations

State of Ohio

Experience

Hasenstab Architects, Inc. - 1990- present
Giffels, Bergstrom & Fricker, Inc. - 1987- 90
Dellagnese and Associates - 1985- 87

Professional Affiliations

American Institute of Architects

Education

Kent State University, 1985, Bachelor of Architecture



Project Experience

Mr. Ahern has been selected and designated as **Project Assistant by the Office of the State Architect** to be utilized on an "as needed" basis to assist in project management duties for state-funded capital construction projects throughout the State of Ohio. Mr. Ahern's background is diverse, having served as project architect for numerous housing, commercial and institutional projects. He also has experience in managing several multi-family housing projects for local housing authorities and private developers. Additionally, Mr. Ahern served as Project Architect overseeing numerous projects for the **Ohio Department of Mental Health**.

■ **Akron Public Schools - Akron, Ohio**

— Judith A. Reznik Community Learning Center - Construction Administration

■ **Ohio Department of Mental Health - Columbus, Ohio**

— Heartland Behavioral Healthcare C&D Unit Renovations

— Heartland Behavioral Healthcare Campus Consolidation - Phase IV

— Heartland Behavioral Healthcare Maintenance Garage, Salt Storage Structure and Reroofing

— Northcost Behavioral Healthcare — JCAHO Facility Assessment

■ **Cardiology One - Canton, Ohio**

— New Outpatient Facility

■ **Strongsville City Schools - Strongsville, Ohio**

— Kisner Elementary School Reroofing Project

— Strongsville High School Reroofing Project

— Central Middle School Reroofing Project

— Muraski Elementary School Reroofing Project

■ **Akron Children's Hospital - Akron, Ohio**

— Pedestrian Bridge/Centennial Parking Deck

■ **Summa/Saint Thomas Hospital - Cuyahoga Falls, Ohio**

— Skilled Nursing Unit

■ **Barberton Parks & Recreation - Barberton, Ohio**

— Pavilion Prototype Designs

■ **City of Akron, Ohio**

— Firestone Stadium Complex Renovation & Addition

■ **Akron Metropolitan Housing Authority - Akron, Ohio**

— Joy Park Homes - 170 Units/Community Center

— Valley View Apartments - 100 Units

— Mohawk Apartments - 100 Units

— Ben Sue Homes - 84 Units

■ **Stark Metropolitan Housing Authority - Canton, Ohio**

— Sherrick Road Apartments - 100 Units

■ **Waterford Apartments - Medina, Ohio**

— 194 Townhouse Units



DANIEL E. HERSTINE, AIA

Responsibilities

Architect, Hasenstab Architects, Inc.

Registrations

State of Ohio, 2006

Experience

Hasenstab Architects, Inc. - 1999 - present

The John David Jones Corporation - 1992 - 1999

Professional Affiliations

American Institute of Architects - Member

– Executive Board Member - 2000 - 01

– Associate Representative - 2000 - 01

Education

Kent State University, 1999, Bachelor of Science
(cum laude)

Kent State University, 1999, Bachelor of Architecture
(cum laude)

The University of Akron, 1993, Associate Degree of
Applied Science in Construction Technology



Project Experience

Mr. Herstine has 15 years of experience in construction document preparation and project planning — from user meetings, research and space planning — to coordination with engineers on projects of varying scopes and scales. He has worked on a wide variety of building types for healthcare, laboratory and educational clients.

■ Ohio Department of Mental Health - *Columbus, Ohio*

- Mental Health Hospital Facility - Planning Services
- Northcoast Behavioral Healthcare Systems - Facility JCAHO Assessment

■ Summa Health System - *Akron, Ohio*

- Cancer Center

■ Aultman Hospital - *Canton, Ohio*

- 2010 Expansion

■ Case Western Reserve University - *Cleveland, Ohio*

- Department of Neuroscience, Dr. Herlitze Laboratory
- School of Nursing Multi-Media Learning Resource Center
- School of Dentistry Multi-Media Learning & Simulation Laboratory
- Dr. Miller's Laboratory
- Photon Scope Laboratory

■ Barberton Citizens Hospital - *Barberton, Ohio*

- Cardiac Catheterization Laboratory Suite
- Cardiac Rehabilitation
- Master Planning
- Open-Heart Operating Rooms
- Cancer Center Addition

■ Akron Children's Hospital - *Akron, Ohio*

- Neurology & Neurodiagnostics, 8th-floor Renovation
- Locust Building, Suite 450 Renovation
- NICU Renovations
- Master Planning
- Endocrinology/Diabetes Center Suite

■ Veteran's Affairs Medical Center - *Cleveland, Ohio*

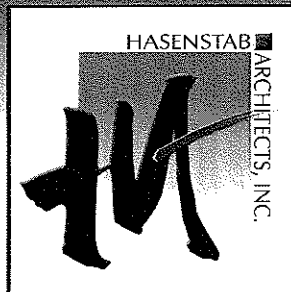
- Oncology Department Renovations

■ Union Hospital - *Dover, Ohio*

- Master Planning
- OB Renovation
- Medical Office Building (400 Building)

■ Pomerene Hospital - *Millersburg, Ohio*

- Master Planning



EDWARD M. PAINE, AIA

Responsibilities

Project Architect, Hasenstab Architects, Inc.

Registrations

State of Ohio, 2004

Experience

Hasenstab Architects, Inc. – 1996 - Present

Professional & Community Affiliations

American Institute of Architects

AIA, Akron Chapter

Education

Kent State University, 1997, Bachelor of Science

Kent State University, 1997, Bachelor of Architecture



Project Experience

Mr. Paine has ten years of experience in construction document preparation and project planning – from user meetings, research and space planning, to coordination with engineers on projects of varying scopes and scales. He has worked on a wide variety of building types, including healthcare and commercial clients, and is currently involved in ongoing work at Aultman Hospital.

■ **Aultman Hospital - Canton, Ohio**

- 2010 Expansion Project
- Aultman Woodlawn - Skilled Nursing & Rehabilitation Facility
- Aultman West - Outpatient Health & Wellness Facility
- Aultman North Sports Medicine Addition
- Linear Accelerator
- Carrollton Medical Building

■ **Marymount Hospital - Garfield Heights, Ohio**

- Facility Expansion for ICU and Emergency

■ **Akron City Hospital/Summa Health System - Akron, Ohio**

- Summa Green Physicians Office Building
- Summa Green Diagnostics & Rehabilitation Facility
- St. Thomas Hospital Lobby Renovation

■ **Akron Children's Hospital - Akron, Ohio**

- Additions & Renovations

■ **Kumho Technical Center - Akron, Ohio**

- South Korean Tire Manufacturer R&D Center

■ **Akron/Summit County Library System - Akron, Ohio**

- Goodyear Branch Library

■ **Ridgewood Road Properties - Akron, Ohio**

- Building #2



CHRISTOPHER BETTS, ASSOCIATE AIA

Responsibilities

Intern, Hasenstab Architects, Inc.

Experience

Hasenstab Architects, Inc. - 1997- present

Gerald Stitz Architects - 1996

Professional Affiliations

American Institute of Architects - Associate Member

Education

Kent State University, 1995, Bachelor of Science

Kent State University, 1995, Bachelor of Architecture



Project Experience

Mr. Betts has 12 years of experience in construction document preparation and project planning — from user meetings, research and space planning, to coordination with engineers on projects of varying scopes and scales. He has worked on a wide variety of building types, including healthcare and commercial clients, and is currently involved in ongoing work at Aultman Hospital.

■ **Summa Health System/Akron City Hospital - Akron, Ohio**

- Cancer Center
- Critical Care Pavilion Addition
- Restaurant

■ **Barberton Citizens Hospital -- Barberton, Ohio**

- Cancer Center

■ **Aultman Health Foundation - Canton, Ohio**

- 2010 Expansion
- Woodlawn Skilled Nursing & Rehabilitation Facility
- Breast Care Center Renovation
- 6 East Patient Unit Renovation
- Memorial 5 South Patient Unit Renovation
- Dialysis Addition/Renovation
- Wound Care Clinic

■ **Union Hospital - Dover, Ohio**

- 400 Medical Park Drive Office Building

■ **Alliance Community Hospital - Alliance, Ohio**

- West Wellness Center
- Sleep Lab/Cardiac Rehabilitation

■ **Veteran's Affairs Medical Center - Cleveland, Ohio**

- PET Scan Suite - Wade Park Facility
- Radiology Renovations

■ **Kaiser Permanente - Various Locations**

- Radiology Renovations
- Laboratory Renovations

■ **Wooster Community Hospital - Wooster, Ohio**

- Two-Story Patient Floor Addition



LEILANI R. BARKAN

Responsibilities

Interior Designer, Hasenstab Architects, Inc.

Experience

Hasenstab Architects, Inc. - 2002- present
Lawrence & Dykes Architects - 2001

Professional Affiliations

Cleveland Green Building Coalition
Member - University of Akron Interior Design Board
VP of Membership 2006 - Stark Community
Toastmasters

Education

Kent State University, 2002, Bachelor of Arts
(Magna Cum Laude)
The Ohio State University, 1991 - 1994



Project Experience

Since joining Hasenstab Architects, Inc., Ms. Barkan has provided interior design services for:

■ **Barberton Citizens Hospital - Barberton, Ohio**

- Main Lobby Design Development
- POB Renovations
- Cardiac Rehabilitation
- Maternity Entrance

■ **Park West Corporate Center - Akron, Ohio**

- Various Tenant Spaces
- Building One Atrium

■ **Aultman Health Foundation - Canton, Ohio**

- As-Built Standards
- 2010 Expansion
- Aultman Woodlawn Skilled Nursing & Rehabilitation Facility
- Aultman Memorial 5 South - Patient Unit Renovation
- Aultman Clinic
- Aultman Cafeteria
- Aultman Center for Education
- Aultman Memorial 6 East Renovation

■ **Hudson City School District - Hudson, Ohio**

- High School Addition
- New Elementary School
- Additions to Evemere Elementary

■ **Akron General Medical Center - Akron, Ohio**

- Physician's Center
- Heart and Vascular Center

■ **Akron Children's Hospital - Akron, Ohio**

- Various Interior Design Spaces
- Various Furniture and Equipment Specifications

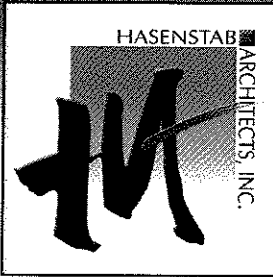
■ **Parma Community General Hospital - Parma, Ohio**

- Various Projects

■ **Philomatheon Society of the Blind - Canton, Ohio**

■ **Old Trail School - Bath, Ohio**

- Various Additions/Renovations Projects



J. BENJAMIN GROW, PE

Responsibilities

Civil/Structural Engineer, Hasenstab Architects, Inc.

Registrations

1969/Professional Engineer/State of Ohio
Registered Professional Engineer - States of Ohio,
North Carolina, Pennsylvania, New Jersey and South
Carolina

Experience

Hasenstab Architects, Inc. - 2006- present
J. Ben Grow & Associates LLC - 1976 - 2006

Professional Affiliations

Member - American Society of Civil Engineers
Member - American Concrete Institute
Member - Society of American Value Engineers

Education

The University of Akron, 1965, BSCE - Civil
Engineering

Colorado State University, 1966, MSCE - Structural
Engineering

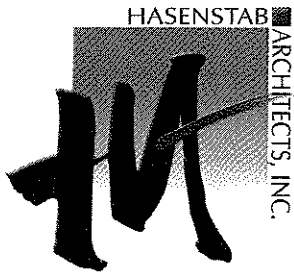


Project Experience

Mr. Grow has provided civil and structural engineering services for numerous educational, commercial and institutional projects during the past 40 years. His experience includes work on the following projects:

- **The Ohio State University Medical Center - Columbus, Ohio**
 - Facilities Master Plan, MRI
- **Park West Corporate Center - Akron, Ohio**
 - Building B
- **Lake Anna YMCA - Barberton, Ohio**
 - Community Learning Center
- **The Ohio State University - Columbus, Ohio***
 - Rhodes Hall Renovation
 - Cunz Hall Chiller Replacement and Cooling Tower
 - Kottman Hall Chiller Replacement and Cooling Tower
- **Youngstown Metropolitan Housing Authority - Youngstown, Ohio***
 - 20-story Residential/Retail Structure
- **Malone College - Canton, Ohio ***
 - New School of Nursing - 3-story Addition
 - Mitchell Hall - Classrooms and Faculty Offices
 - New Residence Hall
 - New Wellness Center - 2-story Addition
- **Kent State University - Kent, Ohio***
 - Engleman Hall Renovation
 - Merrill Hall Renovation
 - Terrace Hall Addition
- **Akron General Medical Center - Akron, Ohio***
 - Radiation Oncology
 - 3-story Parking Deck
- **Akron Children's Hospital - Akron, Ohio***
 - Parking Structure Rehabilitation

* Denotes project experience of Ben Grow, PE, as opposed to firm's experience



Responsibilities

Construction Administration
& Construction Management

Experience

Hasenstab Architects, Inc.
2006 - Present



Thomas A. Walker

Project Experience

Mr. Walker brings more than 13 years of experience in commercial construction, with a concentration on educational buildings, healthcare facilities and multi-story commercial office buildings to this project.

His experience with both the architectural and construction professions gives Mr. Walker a universal understanding of project scopes and budgets as well as construction procedures. His dedication to quality control and his ability to facilitate open communication among owners, contractors and architects translates into a project that is completed on time and within budget.

- **Akron Children's Hospital - Akron, Ohio**
 - Family Respite (Estimating/Constructability Review)
 - Expressive Art Therapy (Schematic Design Estimate)
 - Beeghly Campus (Pre-Purchase Survey)

- **The University of Akron - Akron, Ohio**
 - Robertson Café (Estimating/Constructability Review)
 - Auburn West Tower Rehabilitation Phase IC (Construction Administration)

- **Portage County - Ravenna, Ohio**
 - Prosecuting Attorney's Office - Addition & Renovation
(Extended CA — Estimating/Constructability Review/Construction Administration)

- **City of Akron, Ohio**
 - Various Projects (Schematic Design Estimating)

- **Lubrizol Corporation - Wickliffe, Ohio**
 - Various Projects (Construction Management)

190 N. Union Street.Suite 400
Akron.Ohio.44304
330.434.4464.Phone
330.434.8546.FAX



HEARTLAND BEHAVIORAL HEALTHCARE CAMPUS CONSOLIDATION - PHASE IV

Hasenstab Architects, Inc., created a master plan and program study for this facility and campus consolidation, formerly known as Massillon Psychiatric Center.

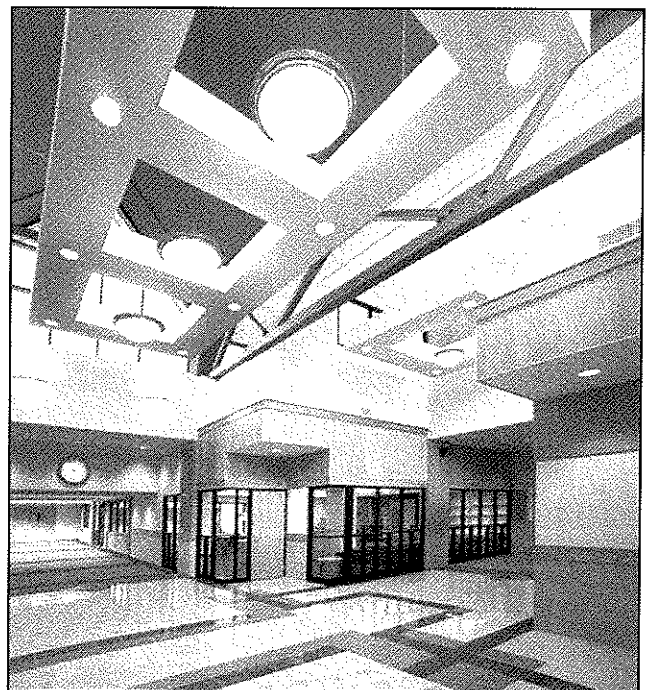
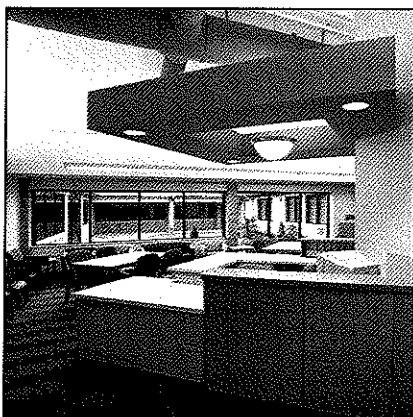
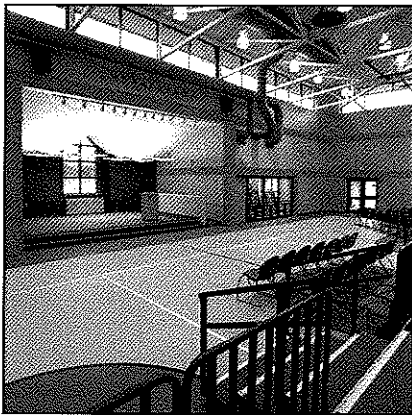
- Client — Ohio Department of Mental Health
Columbus, Ohio
- Completion Date — October 2003
- Size — 49,000-SF
- Cost — \$10,200,000

The existing 23,000-square-foot, day-use area has been completely renovated to house the multi-functional patient mall, which incorporates educational and leisure activities. Included is a library, two occupational therapy clinics, classrooms, mock kitchen, hair salon, exercise area and a boutique-type shop. The focal point of the mall interior showcases a 22-foot-high open space with clerestory windows. Decorative aluminum-cased windows, wood and tile finishes and various lighting elements complement this area.

Two new buildings connect the main campus — a gymnasium/assembly structure positioned to complete the facility's new front facade and a maintenance/receiving building adjacent to the dietary building. The facility's campus also includes two smaller additions — comprising 24,000-square feet — for locker rooms, employee break room and patient social center.

This project represents the final phase of the campus consolidation. Previous phases included renovating three patient wings to accommodate 150 patients, creating day rooms for patient activities, as well as a seclusion room and exam/treatment room. Special care was exhibited in the design to address security and safety issues for patients and staff.

The overall design involved downsizing the site to allow for reconfiguration of vehicular circulation and new parking lots. A portion of the exterior landscape space is dedicated for patient use and contains a new pavilion structure.





HEARTLAND BEHAVIORAL HEALTHCARE TREATMENT MALL

This facility is a result of a unique architectural design which evolved from clinical concepts grounded in the principles of recovery. The environment transforms the manner in which therapeutic activities are provided to patients, by more closely mirroring a community treatment experience.

Construction of the Treatment Mall at Heartland Behavioral Healthcare began in the summer of 2002. Offices in the remodeled A Wing of the Rehabilitation Center were occupied in August 2003, and the Mall was opened for programming in September 2003.

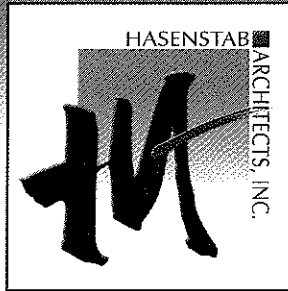
Areas of the Mall include spaces for Occupational Therapy, Patient Education, Patient Library, Social Work, Patient Advocacy, Classrooms, Gymnasium, Music Room, Social Center, Conference Rooms and various therapeutic settings.

The Treatment Mall was designed to provide staff with the necessary and appropriate environmental settings, which will allow them to provide the best available treatment programs and care to all patients in an appropriately secure setting. This promotes recovery by providing a more normal, balanced daily routine — preparing patients for meaningful and satisfying lives as a members of the community.

The Treatment Mall is defined by function, not form — an environment which promotes recovery. It makes treatment resources of the entire Behavioral Healthcare Organization (BHO) accessible to every patient. Its focus is recovery with active treatment, and it emphasizes patient choice and collaboration. The Mall concept allows allocation of staff and resources for maximum effectiveness.

Programmatic advantages of the Treatment Mall include:

- *Opportunities to develop more creative programs*
- *Pairing staff with similar skills and interests*
- *Greater interaction between staff and patients*
- *More efficient/less duplication of programs*
- *Increased effectiveness of treatments*
- *More access to program choices*
- *Increased patient responsibilities*
- *Less restrictive environment for patients*



MASSILLON PSYCHIATRIC CENTER PATIENT UNIT RENOVATIONS

■ Client — Ohio Department of Mental Health
Columbus, Ohio

■ Completion Dates — Unit B - September 1999
— Unit C - November 2000
— Unit D - September 2001

■ Size — Unit B - 22,000-SF
Units C & D - 46,000-SF

■ Cost — \$5 million (Total)

Massillon Psychiatric Center

On March 31, 1882, the Eastern Ohio Asylum for the insane, later named Massillon State Hospital in the early 1900s, was authorized by Ohio statute. A board of construction, appointed by Governor William McKinley, visited various institutions nationwide and decided upon a "Cottage Plan" for the Massillon site. The hospital was one of the first of its kind to be built on this plan.

The Superintendent's residence (also known as the McKinley mansion) was completed in 1897. Nine additional buildings were built the following year. The hospital opened its doors for patients on September 6th, 1898. A total of 49 buildings have been built on the 1226-acre tract of land. In 1976, demolition and consolidation of several building structures began.

On August 3, 1989, the name of the hospital was legally change to Massillon Psychiatric Center. The name was changed again on September 10, 2000, when Massillon Psychiatric Center and Sagamore Child and Family Services merged to create a new organization called Heartland Behavioral Healthcare.

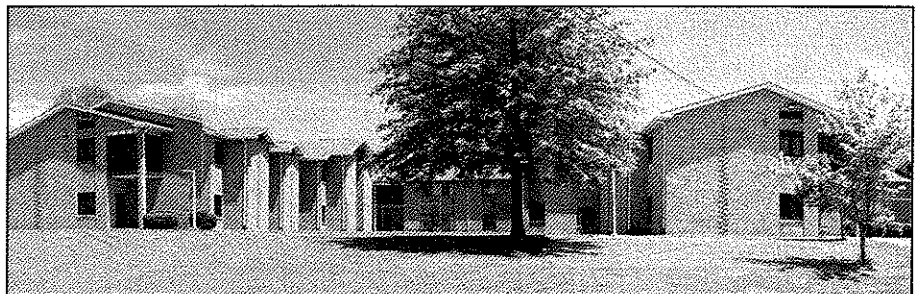
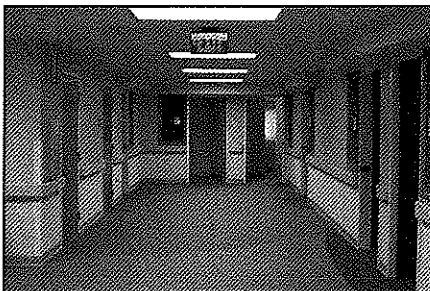
The new Behavioral Healthcare Organization was the first state operated facility in Ohio to offer services through all four of the Ohio Department of Mental Health product lines — Intensive and Specialized Services, Forensic and Risk Management, Community Support Network, Child and Family Services.

Firm's Responsibility

Hasenstab Architects, Inc., provided architectural, engineering and interior design services for three patient units at Massillon Psychiatric Center.

The design of Patient Unit B accommodated 28 patients per floor and improved the relationship and operational flow between physician/nursing spaces and patient rooms. All wall, floor and ceiling finishes were upgraded to provide a residential, yet durable atmosphere for patients. The project also involved an upgrade of mechanical, electrical, lighting and communications systems.

Scope of work for Patient Units C & D were similar to Unit B, but with a more extensive renovation of patient rooms, accommodating ADA guidelines.





OHIO DEPARTMENT OF MENTAL HEALTH NEW BEHAVIORAL HEALTHCARE FACILITY

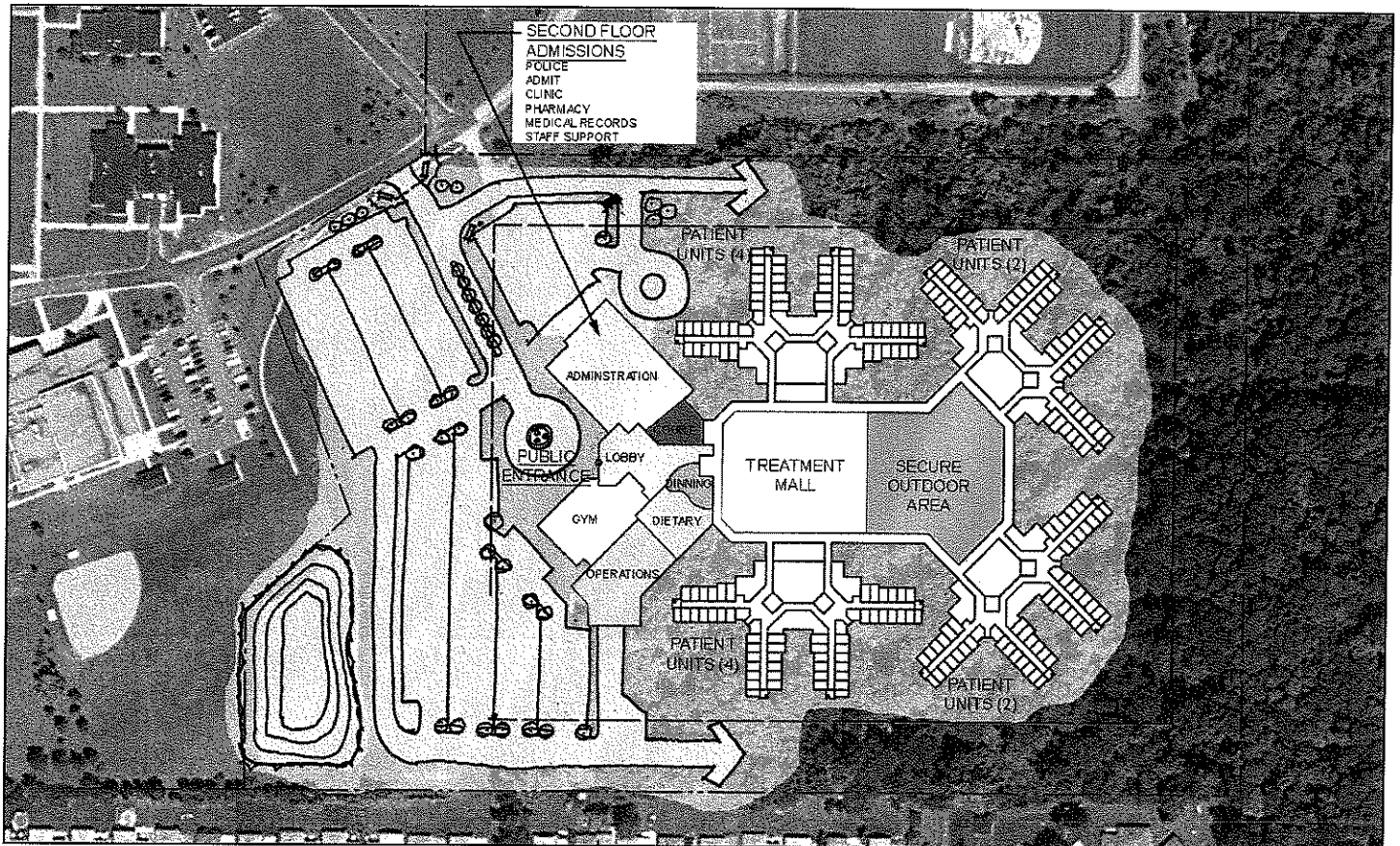
Firm's Responsibility

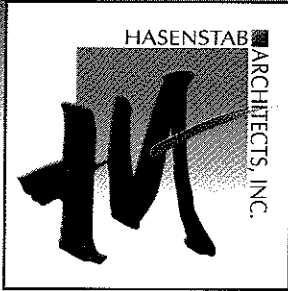
Hasenstab Architects, Inc., provided programming and planning services for a new Behavioral Healthcare Facility for the Ohio Department of Mental Health, and was also selected to provide architectural and interior design services for this project.

After meeting with representatives, Hasenstab Architects presented the Ohio Department of Mental Health with several scenarios for consolidating the multi-campus organization, as well as plans for a replacement hospital.

The new hospital will provide a safe environment for behavioral healthcare patients in residential patient units and recovery/treatment spaces. In addition to patient units, the "secure building envelope" design will include a kitchen/dining facility, outdoor recreation areas and therapeutic spaces. Support spaces for staff, volunteers and visitors will include administration offices, as well as areas for food/bulk storage, mechanical equipment systems and maintenance/groundskeeping.

- Completion Date – 2014
- Client – Ohio Department of Mental Health
Columbus, Ohio
- Size – 400,000-SF
- Cost – \$91.5 million





OHIO DEPARTMENT OF MENTAL HEALTH NEW BEHAVIORAL HEALTHCARE FACILITY - PROGRAMMING & PLANNING STUDY

- Client – Ohio Department of Mental Health
Columbus, Ohio

- Completion Date – 2007

- Size – N/A

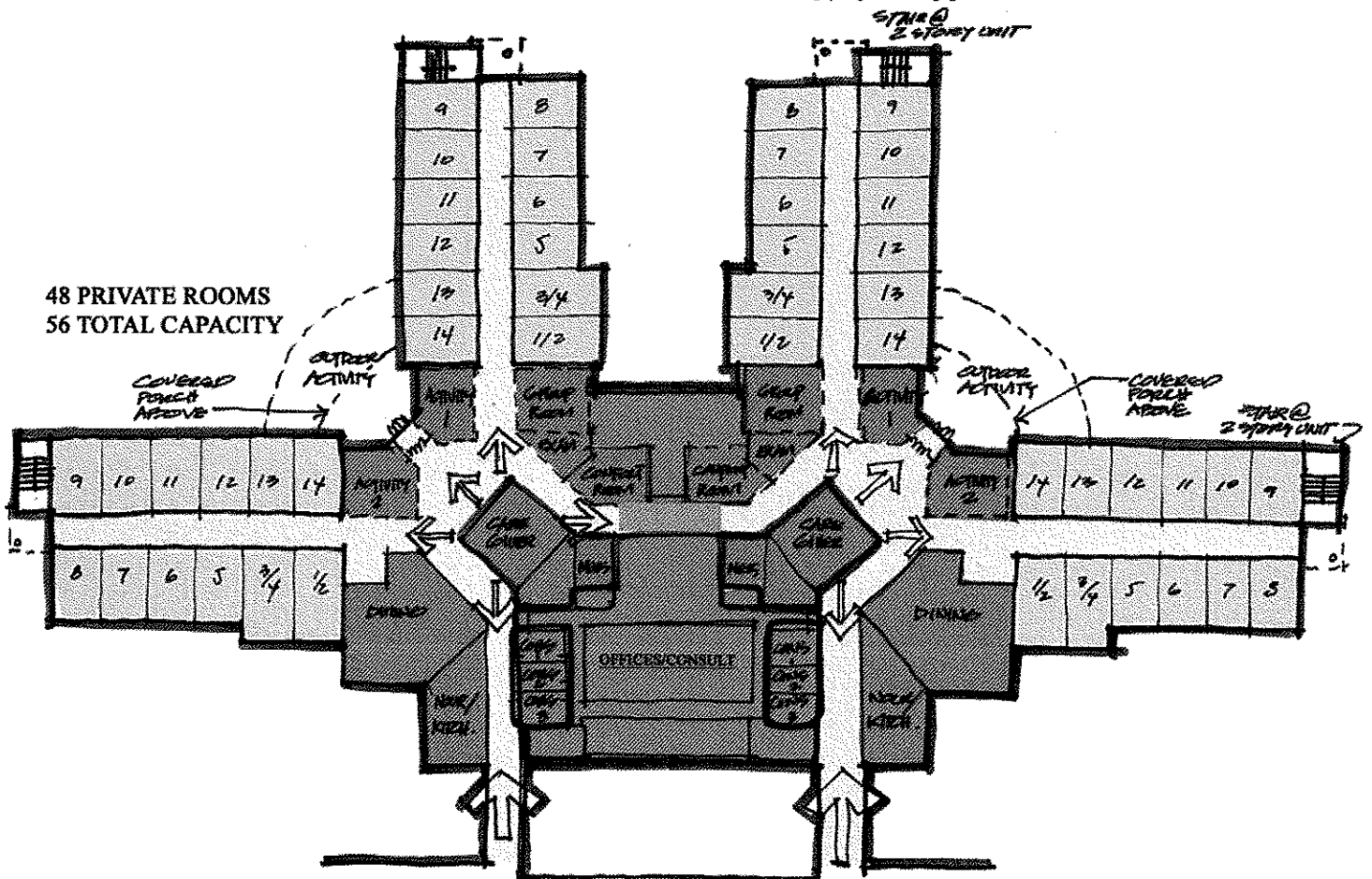
- Cost – N/A

Firm's Responsibility

Hasenstab Architects, Inc., teamed with healthcare consulting firm, Bardwell & Associates, to provide planning and programming services for a new behavioral healthcare hospital. As part of a broad-based planning team – which included several Ohio Department of Mental Health (ODMH) and Northcoast Behavioral Healthcare participants – Hasenstab Architects has directed efforts to define a mission and vision for this new facility.

The study analyzed a consolidation of the multi-campus organization, as well as capital expenditures. The program outlined a plan to enhance the quality of care for mental health patients by providing a setting which facilitates effective, best practice-based caregiving, and improved operations and support functions.

Hasenstab Architects provided ODMH with three future building scenarios for a replacement facility – one for 120 beds, 190 beds and 300 beds. All three options have been evaluated for area requirements, budget and effectiveness in achieving programming goals.





NORTHCOAST BEHAVIORAL HEALTHCARE - TOLEDO CAMPUS PATIENT UNIT RENOVATIONS

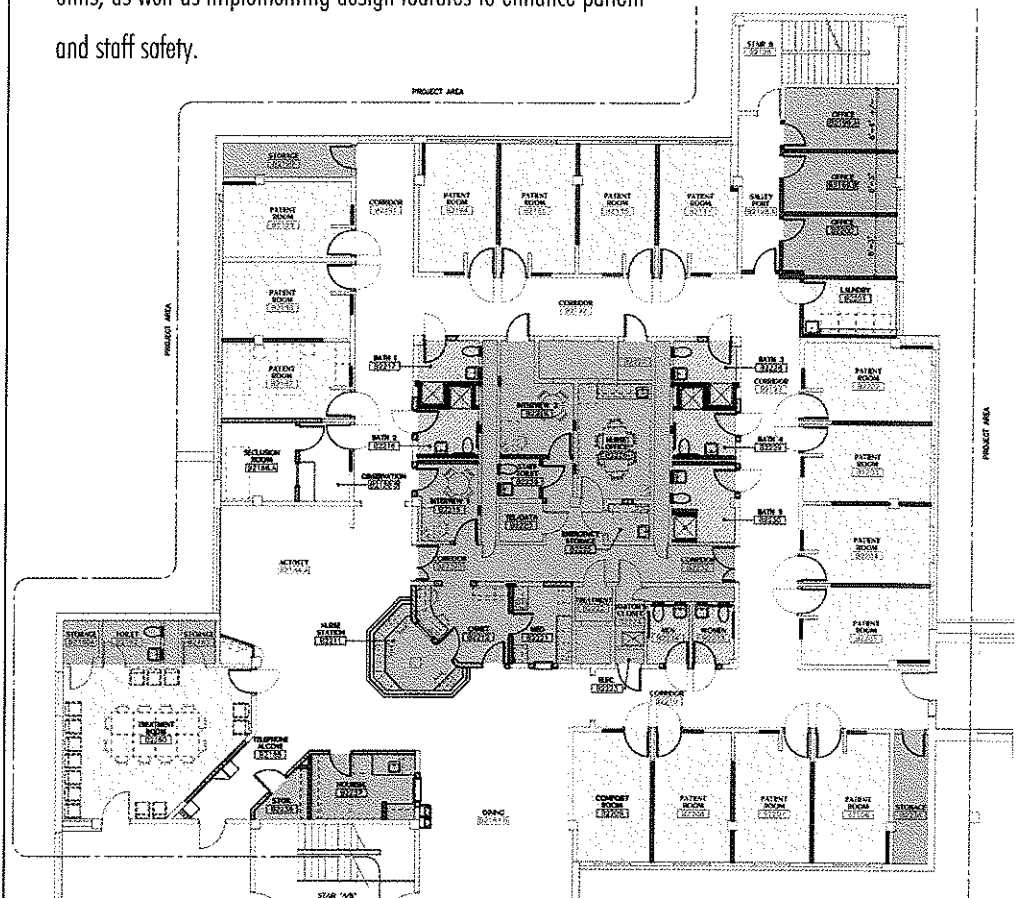
- Client – Ohio Department of Mental Health
Columbus, Ohio
- Completion Date – 2008
- Size – 11,000-SF
- Cost – \$850,000

Firm's Responsibility

Hasenstab Architects, Inc., provided analysis and evaluation services for the Ohio Department of Mental Health - Toledo Campus. Due to pending state budget modifications and facility closures, a quick transition of patients to the Toledo facility was required. Two existing, unoccupied patient units at the Toledo campus were evaluated to determine requirements for utilization.

Analysis of the first unit, which was used as transitional space, focused on Life Safety and Patient Safety criteria, housing patients until the long-term unit renovation could be completed. The long-term unit incorporated special features, including the creation of a secure medication dispensing room and a staff control area with proper visualization.

Challenges for this project included an aggressive schedule to complete analysis and design for both units, as well as implementing design features to enhance patient and staff safety.





NORTHCOAST BEHAVIORAL HEALTHCARE FACILITY JCAHO ASSESSMENT

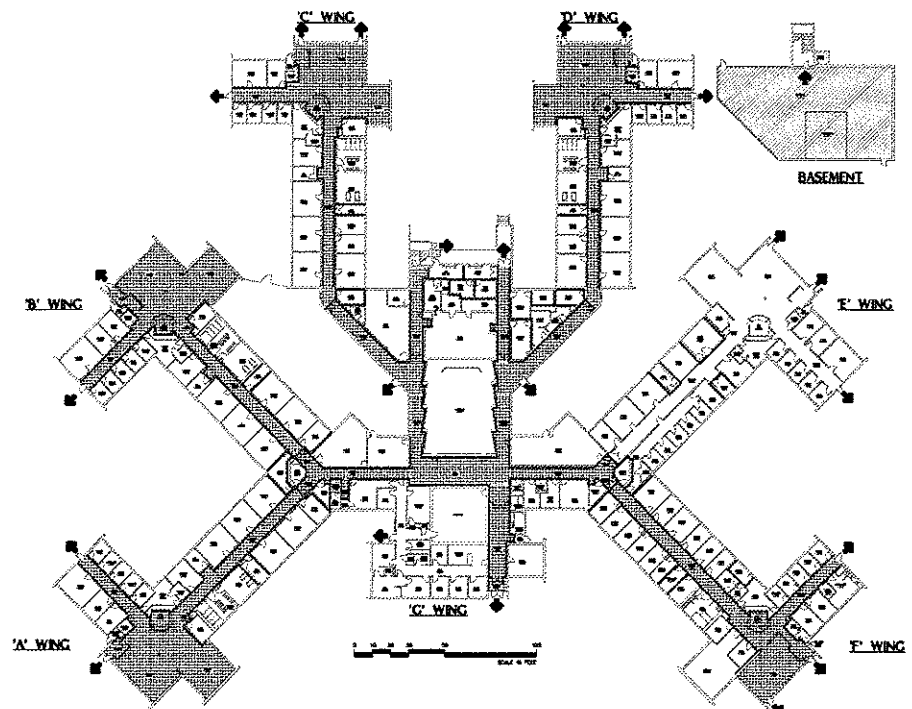
- Client – Ohio Department of Mental Health
Columbus, Ohio
- Completion Date – 2005
- Size – 380,000-SF (Three Campuses)
- Cost – N/A

Firm's Responsibility

Hasenstab Architects, Inc., worked with the Ohio Department of Mental Health to perform a JCAHO (Joint Commission on Accreditation of Healthcare Organizations) assessment of facilities totaling approximately 380,000 square feet.

A code analysis for three Northcoast campus facilities – Cleveland, Northfield and Toledo – was performed to identify and recommend corrective actions to resolve JCAHO Life Safety Code deficiencies. The existing facilities were reviewed for conformance to NFPA 101, and a Statement of Conditions was prepared separately for each of the campuses.

Existing facilities were field surveyed, and meetings were held with facility personnel to assist in the overall building evaluation. Life Safety information was documented for all floors, and a deficiency plan was developed as a guideline for ODMH to implement a Plan for Improvement Program.





CAMDEN-CLARK MEMORIAL HOSPITAL PSYCHIATRIC UNIT RENOVATION

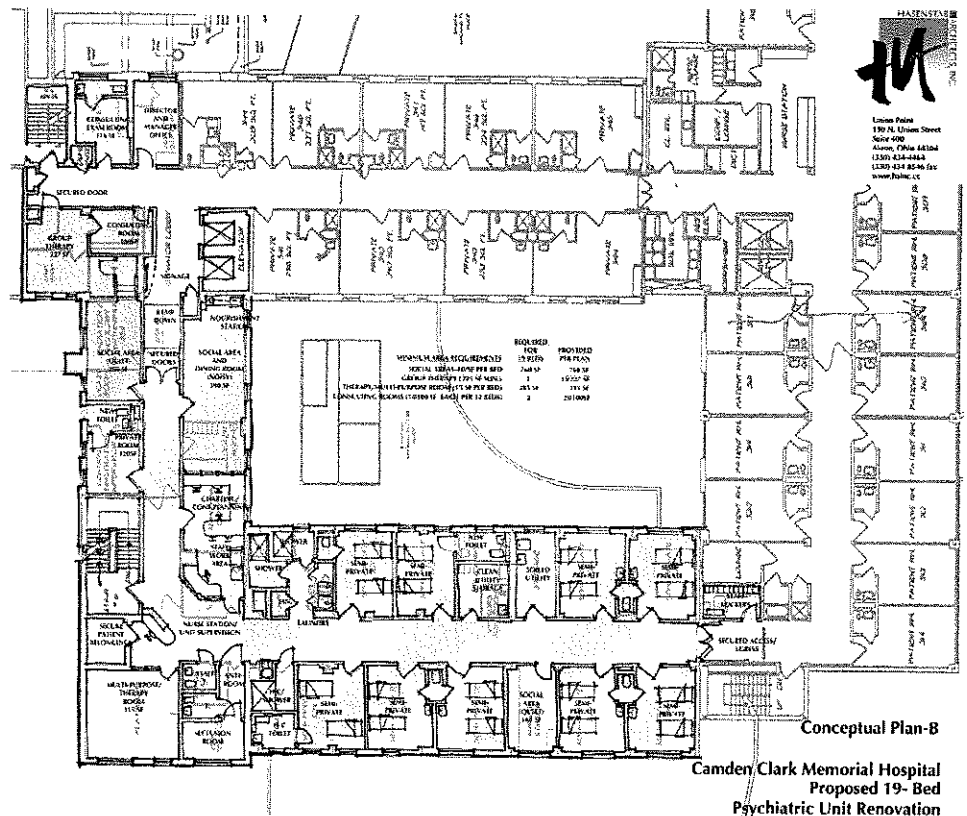
- Completion Date – February 2007
- Client – Camden-Clark Memorial Hospital
Parkersburg, West Virginia
- Size – 7,033-SF
- Cost – \$1,017,000

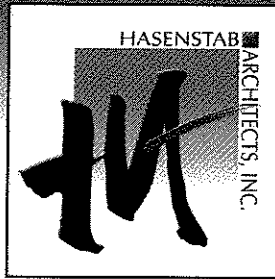
Firm's Responsibility

Hasenstab Architects, Inc., worked with Camden-Clark Memorial Hospital, the management group, and the Office of Health Facility Licensure & Certification (OHFLAC) to develop plans for a new 19-bed Psychiatric Patient Wing at the main hospital. The unit provides psychiatric patient care services to the entire Parkersburg area. Hasenstab Architects assisted Camden-Clark in preparation of the CON application, providing project description, cost estimates, cost breakdowns and project schedules. The project was completed on schedule February 2007.

Design/Program Elements

The unit occupies 7,000-square feet of an existing patient unit on the third floor. The pediatric patient unit was upgraded to comply with special design considerations and provide safety and security for the patients and staff. Ambulatory patients are cared for in a semi-residential, secured setting which offers clinical counseling and social and therapeutic functions. The original construction estimate was \$885,000 plus contingency. The final construction cost including change orders was approximately \$760,000. The project also included the relocation of two hospital departments to new space at a cost of \$546,000.





VETERANS AFFAIRS MEDICAL CENTER MENTAL HEALTH ADDITION

- Completion Date — April 2006
- Client — Veterans Affairs Medical Center
10000 Brecksville Road
Brecksville, OH 44141
- Contact — Dave Sabol
Chief of Engineering Services
440.526.3030 (x6162)
- Size — 16,800-SF
- Cost — \$3.2 million

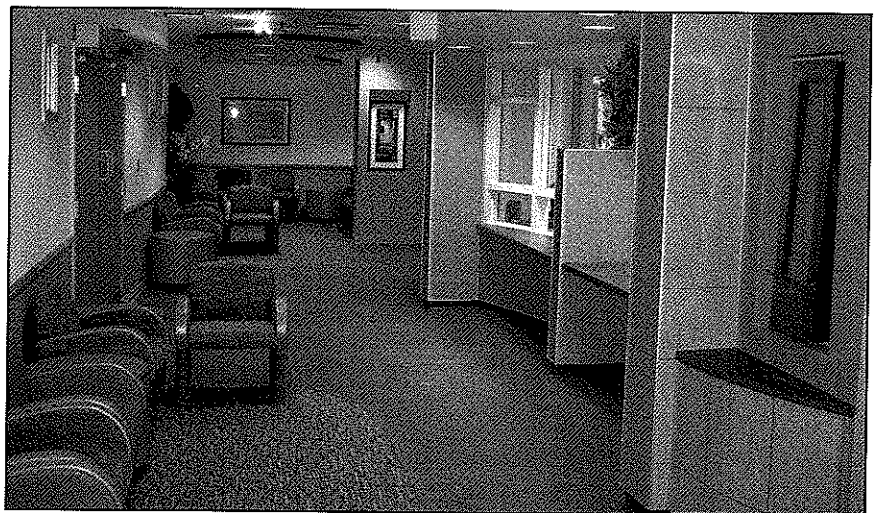
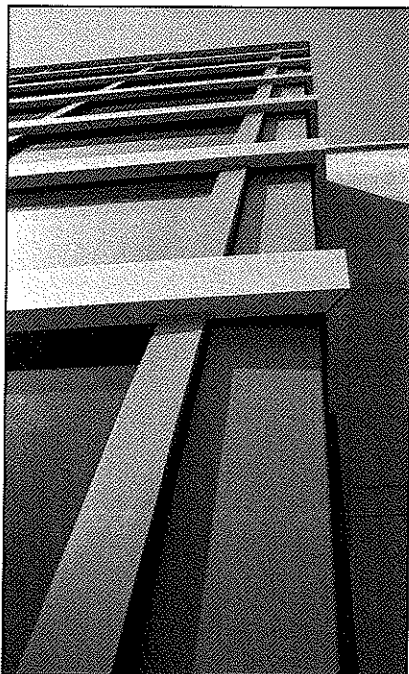
Firm's Responsibility

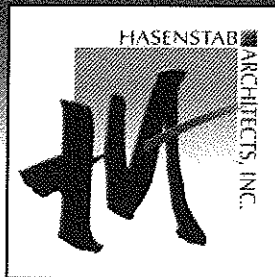
Hasenstab Architects, Inc. provided architectural and interior design services for a two-story Mental Health addition on top of an existing building at the Louis Stokes VA Medical Center. The new addition filled an area between three existing building additions.

One of the major project challenges was tying into these three existing buildings as well as the building below. Because the addition serves as an outpatient substance abuse and mental health clinic, safety was a primary concern, and all rooms were designed around the safety needs of patients and staff. Panic alarms and cameras were used throughout the new addition.



The facility also consists of staff offices large enough for patient care and large group rooms for patient activities and therapy. Specialized rooms within the facility include detoxification areas and a methadone dispensing area for administering narcotic medications.





WOOSTER COMMUNITY HOSPITAL TWO-STORY PATIENT FLOOR ADDITION

- Completion Date — Winter 2009
- Client — Wooster Community Hospital
Wooster, Ohio
- Size — 46,000-SF
- Cost — \$13.7 million

Firm's Responsibility

Hasenstab Architects, Inc., is providing programming, architectural and structural design services for a two-story addition to Wooster Community Hospital in Wooster, Ohio.



The program includes two patient unit floors and the consolidation of all the hospital's patient rooms into a new patient tower. One of the floors will include the hospital's new Joint Center and a patient rehabilitation area.

Designers were faced with the challenge of integrating the aesthetics of the new addition with the existing facility to provide a cohesive design that eliminates the appearance of two separate structures. The solution involves utilizing materials which are similar to the existing structure and incorporating several design features to enhance the original design aesthetic. The program also requires extensive coordination with several of the infrastructure services, including the mechanical air distribution and plumbing systems.

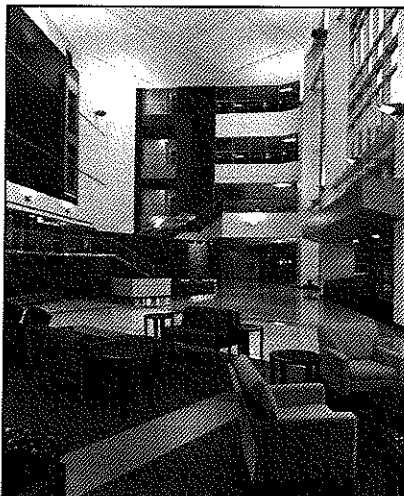
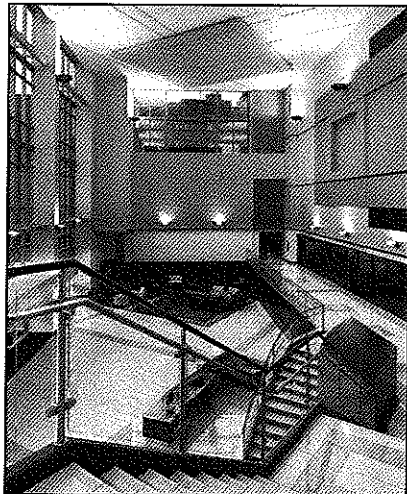
From an operational standpoint, another challenge will be to provide a plan which improves staff efficiencies on patient units, while working within the existing building perimeter and configuration. This will be accomplished by creating a better distribution of staff support facilities and integrating a hybrid of centralized and decentralized nursing stations.





AULTMAN 2010

- Completion Date — Spring 2006
- Client — Aultman Hospital
Canton, Ohio
- Size — 338,000-SF
- Cost — \$57 million



Firm's Responsibility

Hasenstab Architects, Inc., worked with Aultman Hospital in providing architectural, engineering and interior design services for a 338,000-square-foot expansion on its main campus in Canton, Ohio.

The new addition is located north of the existing hospital and connected with a four-story atrium lobby.

The new facility houses the Heart Center, Women's Center — including Labor and Delivery and a Neonatal Intensive Care Unit — and Emergency/Trauma Department, which includes a Level II Trauma Center and Life-Flight services for the region. All of these areas were relocated from their former locations within the hospital.

The unique arrangement of patient rooms and nurse stations facilitates improved communications and traffic flow. Floor layouts were specifically designed to allow patients to be kept in the vicinity of specialty areas and testing utilities, eliminating the need to transport patients long distances for procedures.

The project accommodates the following patient treatment functions:

Heart Program

- Open Heart surgical suite with support functions
- Surgical Intensive Care Unit/Stepdown Unit
- Invasive Cardiac Catheterization Unit
- Non-Invasive Stress Testing
- Physician Offices

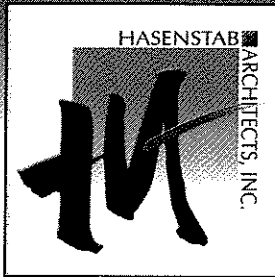
Women's Program

- Triage Unit ■ Labor & Delivery Unit
- Cesarean Section Suite ■ Neonatal Intensive Care Unit

Emergency Program

- Emergent & Immediate Care Units
- Chest Pain/Observation Unit
- Radiology, including:
 - CT Scanner Room
 - Ultrasound
 - Two General Radiographic Rooms
 - Four Gamma Cameras (Nuclear Medicine)





MARYMOUNT HOSPITAL FACILITY EXPANSION

Firm's Responsibility

Hasenstab Architects, Inc., worked closely with Marymount Hospital to provide architectural and engineering services for the construction of an 88,000-square-foot, four-story addition which includes a new 29-room Emergency Department, a 28-bed Intensive Care Unit, a mechanical floor with shelved space for future support areas. Radiology, Admissions and Registration were also expanded into both new and renovated spaces.



■ Completion Date — January 2007

■ Client — Marymount Hospital
Garfield Heights, Ohio

■ Size — 88,000-SF (Addition)
10,500-SF (Renovation)

■ Cost — \$18.3 million

■ Engineers

— Clinical Design Consultants — Harrell Group, Inc.

— MEP Engineering — Peters, Tschantz & Bandwen

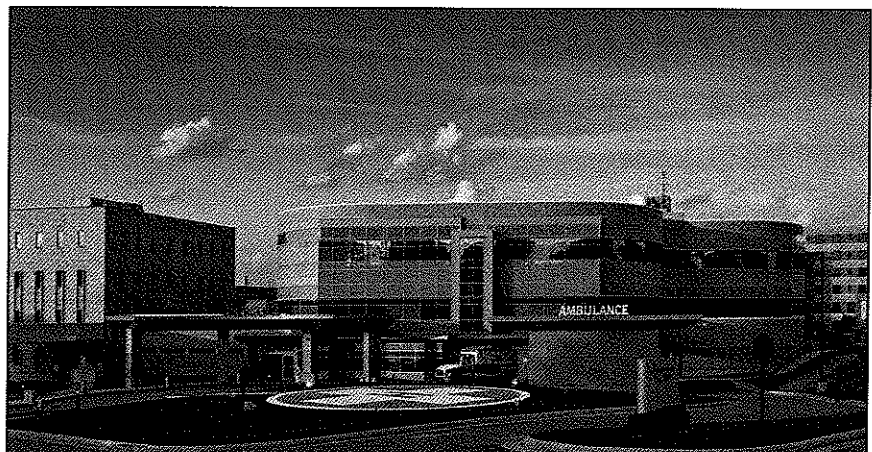
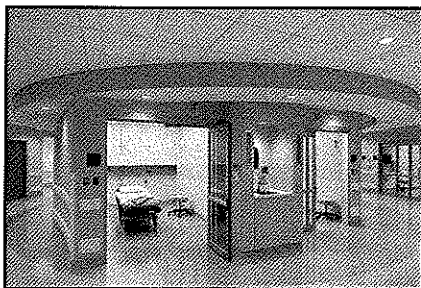
— Structural Engineering — Gensert Bretnall Associates

— Civil Engineering — Michael Benza & Associates

The first floor houses emergency, radiology, pre-admission testing, laboratory and registration areas. Located on the second floor are 28 private ICU rooms. The third floor contains air handling systems for the new building and space for the relocation of administrative/staff support offices to free prime space in the existing hospital for patient services.

Both the emergency department and the ICU wings utilize an open plan core with a radial design. The use of glass partitions in the core area (in lieu of solid walls) allows visualization of the entire unit from end to end. Radial plan rooms are more easily monitored from staff support areas in the core, improving staff efficiencies. Supplies are stored in the core adjacent to the rooms, which minimizes steps to provide direct patient care and simplify restocking.

Curving lines on the exterior of the new building reflect the radial design of the interior plans. The brick banding and curtain wall glazing incorporate elements from the traditional design of the existing hospital in order to blend with and enhance the progressive and revitalized image of the facility.





AKRON CHILDREN'S HOSPITAL ADDITIONS & RENOVATIONS

- Completion Date — September 2005
- Client — Children's Hospital Medical Center of Akron - Akron, Ohio
- Size — 70,000-SF (Five-Story North Addition)
27,000-SF (Three-Story East Addition)
93,000-SF (Renovations)
- Cost — \$40,400,000
- Engineers
 - Mechanical & Electrical
Peters, Tschantz & Bandwen, Inc.
 - Structural
Jezerinac Geers & Associates, Inc.
 - Civil
C.T. Consultants, Inc.
- Construction Manager
Gilbane

Firm's Responsibility

Hasenstab Architects Inc., provided architectural, engineering and interior design services — in cooperation with Karlsberger Architecture — for this \$40-million additions and renovations project to the Children's Hospital main campus in downtown Akron. Karlsberger initiated the programming and schematic design phases, while Hasenstab Architects transitioned at Design Development through project completion.

The program consisted of a 70,000-square-foot, five-story North Addition involving the Regional Burn Trauma Center and Pediatric Intensive Care Unit. The project scope entailed 11,000-square feet of shelled space for housing, three nursing units, replacement upgrade of major electrical gear including generators, complete renovation of the hospital's shipping and receiving department, and installation of a helipad. The North Addition also involved moving the Hematology-Oncology inpatient unit from the fourth to fifth floor.

The East Addition consists of nearly 27,000-square feet of space in a three-story structure. The food service kitchen, cafeteria and dining space is completely replaced under this portion of the project. Likewise, the outpatient surgery and surgery waiting areas are reconfigured to better utilize the current space and add more clinical space. The remaining floor of the addition includes four new specialized operating rooms.

Additionally, approximately 93,000-square feet of the hospital has been renovated, almost doubling the size of patient rooms in the Burn Center. The new PICU has doubled in size and consists of 23 private patient rooms.

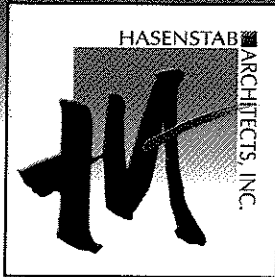
The design team worked closely with the Owner and Construction Manager to address phasing strategies for this fast-track project. Sequencing of activity allowed the Owner to maintain operation throughout the construction process.

Interior Design

Space, interior architecture and colors were selected to represent a vocabulary of the universe, the city and the neighborhood. This language was selected to build upon existing vocabulary in the hospital and to aid in way finding for the public.



**Design Architect — Karlsberger*

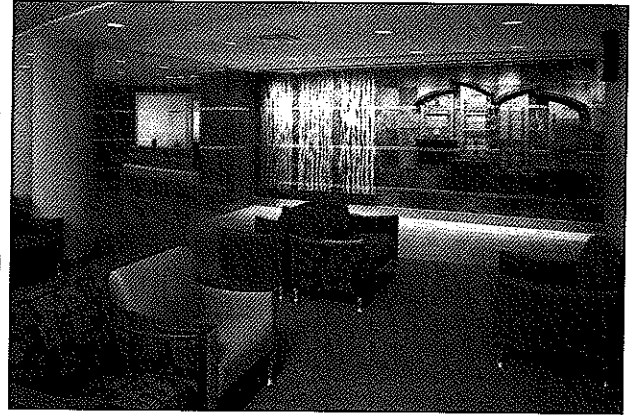


AKRON GENERAL HEART & VASCULAR CENTER

- Completion Date — Fall 2005
- Client — Akron General Health System
Akron General Medical Center
Akron, Ohio
- Size — 64,000-SF
- Cost — \$16.4 million
- Engineers
 - Consulting Engineers
Starr & Sons, LTD
 - Mechanical, Electrical & Plumbing
Peters, Tschantz & Bandwen, Inc.
 - Civil & Structural
Thorson Baker & Associates, Inc.

Firm's Responsibility

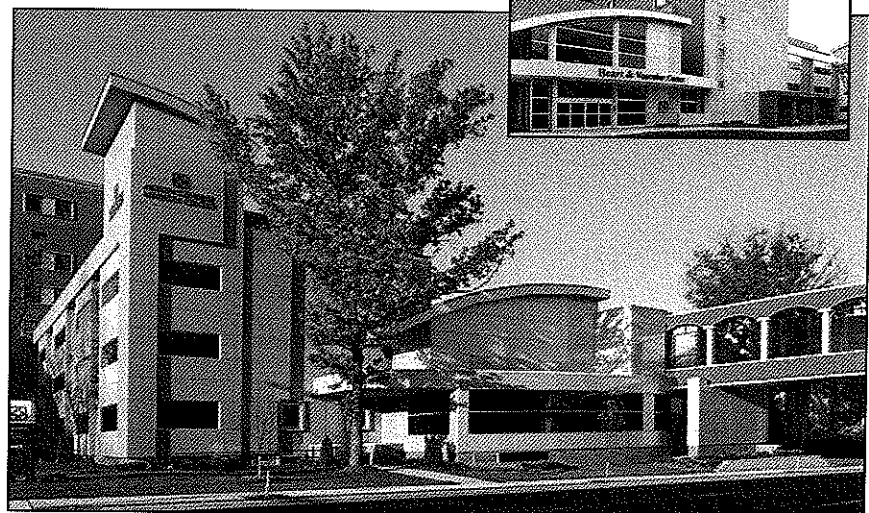
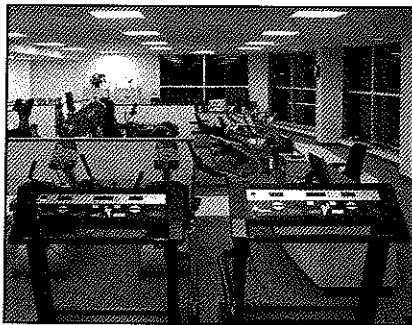
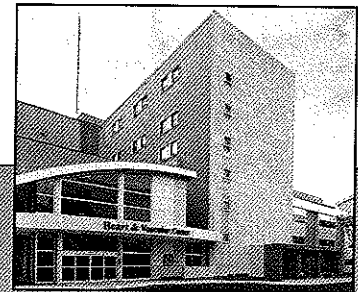
Designed to support multi-specialty physician collaboration and maximize patient comfort and convenience, the Akron General Heart & Vascular Center is unique among area healthcare institutions, bringing multiple cardiovascular services together in one central location and on one floor.



The 64,000-SF renovation, expansion and new construction includes three heart catheterization labs located next to the Emergency Department, which increase the speed of diagnosis and intervention for cardiac patients presenting at the ED. In addition, a new 18-bed prep and observation unit provides physician convenience and increased patient comfort and privacy. Other newly renovated areas include cardiac testing, heart pacing and neurology. The new Heart & Vascular Center brings together physicians in cardiology, radiology, neurology, nephrology, pulmonology, and cardiothoracic and vascular surgery who have expertise in cardiovascular disease. This facility is conducive to multi-disciplinary physician interaction and collaboration, which translates into comprehensive quality care for patients.

Patients needing cardiac and pulmonary rehabilitation receive treatment in a space enhanced by a wall of windows, which provides an open, airy panoramic view of the outdoors and Akron city skyline. Also new is the Eva P. Craig auditorium and physician education classrooms, offering state-of-the-art conference facilities.

The \$16.4-million Heart & Vascular Center provides Akron General Medical Center, its physicians and patients with the most advanced facility of its kind to meet current and future clinical needs.

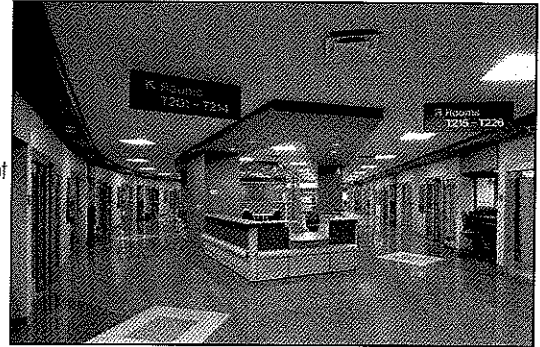




SUMMA HEALTH SYSTEM/AKRON CITY HOSPITAL CRITICAL CARE PAVILION ADDITION

Firm's Responsibility

As lead architect, Hasenstab Architects provided architectural and engineering services, in cooperation with design architect NBBJ, for a 120,096-square-foot Critical Care/Intensive Care Pavilion addition and 18,282-square feet of renovations at Summa Health System's Akron City campus.



■ Completion Date — Spring 2006

■ Client — Summa Health System - Akron, Ohio

■ Size — 105,035-SF (Addition)
45,600-SF (Renovation)

■ Cost — \$37 million

■ Engineers

— Mechanical

Karpinski Engineering

— Electrical

Peters, Tschantz & Bandwen, Inc.

— Structural

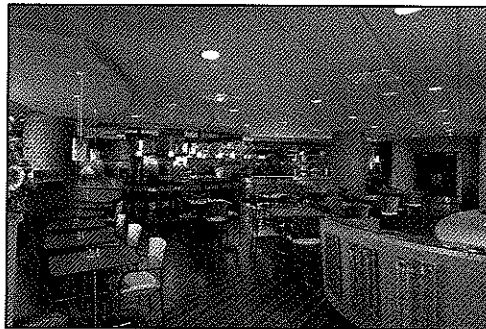
Thorson Baker & Associates, Inc.

Services included master planning for future additions of the main hospital, as well as a developer-delivered Center of Excellence — an additional 168,000-square feet — for a new Heart Center.

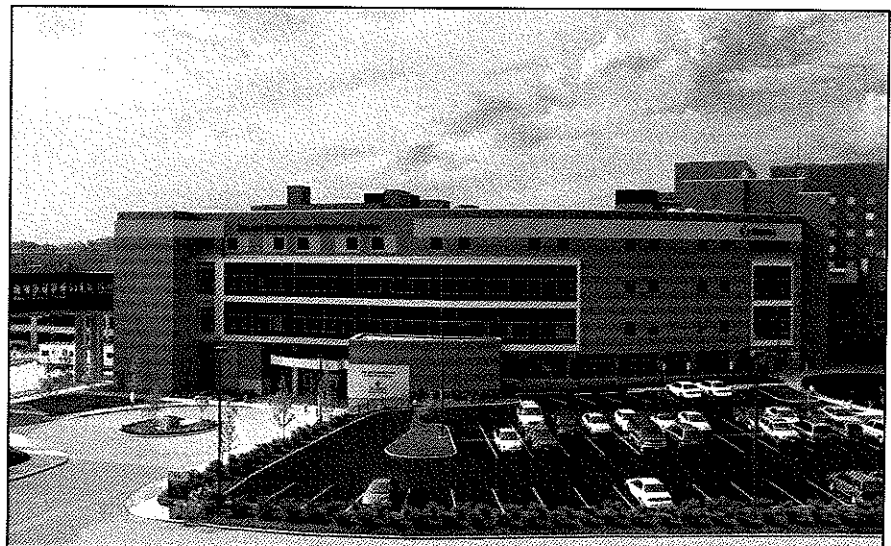
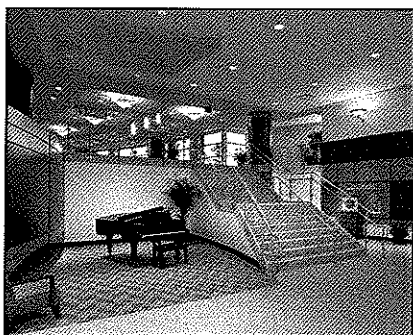
The Critical Care Pavilion includes 26 beds for CCU and angioplasty patients and 52 ICU beds. Renovations include 16 surgical vascular ICU beds.

This design keeps patients needing similar care in areas which were formerly located in different parts of the hospital — streamlining patient flow, enhancing patient care, reducing demands made upon professional

staff and increasing the overall level of comfort for patients and their families.



Project goals and solutions reinforce Summa Health System's status as one of America's Best Hospitals — published in U.S. News & World Report — and the hospital's vision for future growth in northeast Ohio.





ALLIANCE COMMUNITY HOSPITAL INTERIOR & EXTERIOR ENHANCEMENTS

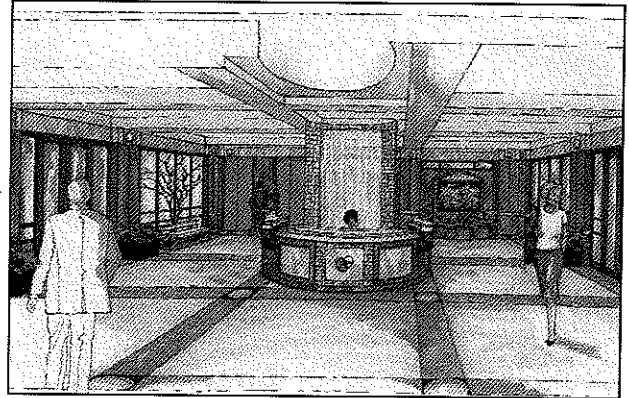
■ Completion Date — January 2006

■ Client — Alliance Community Hospital - Alliance, Ohio

■ Contact — Mr. Bob Kroupa
Director of Campus Planning
330.828.4219

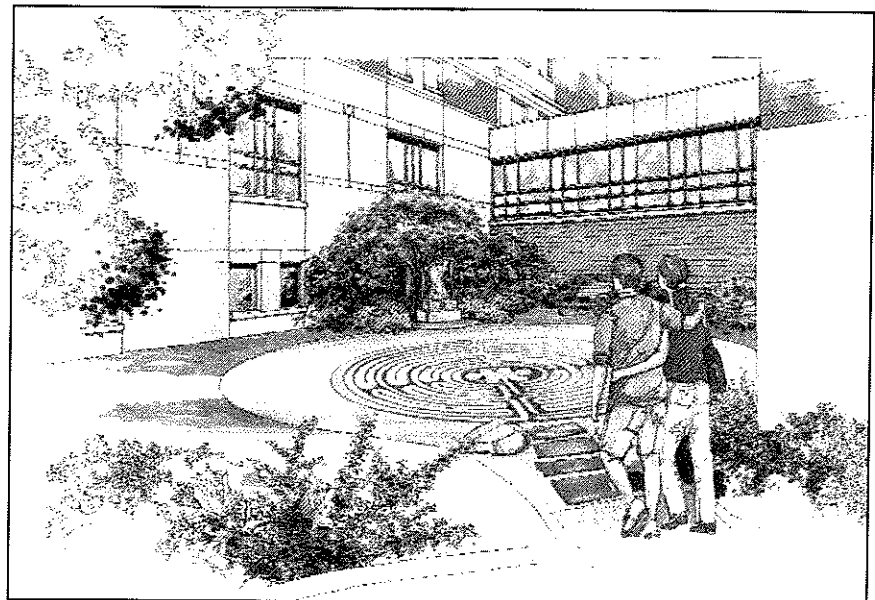
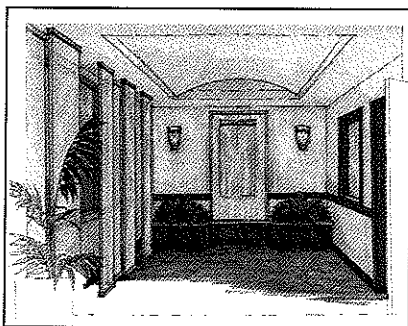
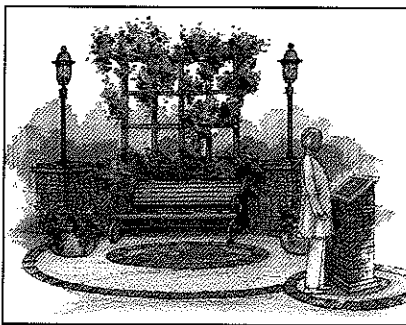
Firm's Responsibility

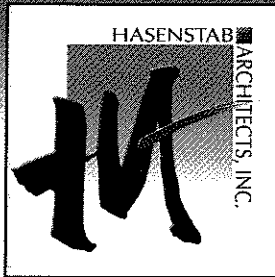
Hasenstab Architects provided interior design services for multiple areas within the hospital and in surrounding exterior perimeters to support efforts of creating "serenity" spaces for Alliance Community Hospital patients, staff and visitors.



Phase I consisted of enhancing the hospital experience through the use of *Planetree* — a combination of services and surroundings which embrace the mind, body and spirit in a beautiful setting — where healing is nurtured in the psychological, emotional, and spiritual dimensions, as well as the physical, in a warm, relaxing and decidedly non-institutional environment. The goal was to engage patients to become active participants in their own well-being.

Phase II services included development of construction documents and specifications to allow contractor pricing for several of the focus areas which included: exterior garden retreats; therapy transition trail; main lobby; labyrinth reflection garden; women's imaging center; chapel/spiritual center; artwork coordination; comfort waiting areas; and furniture/fabric selections.

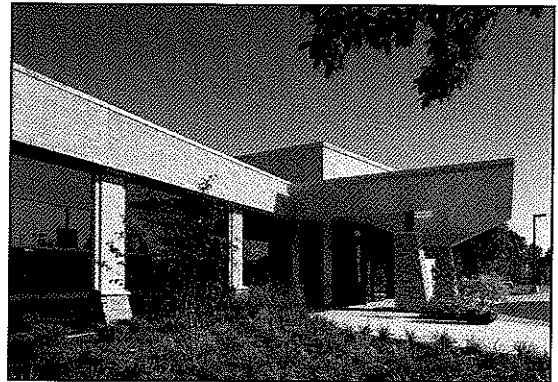




BARBERTON CITIZENS HOSPITAL CANCER CENTER

Firm's Responsibility

Hasenstab Architects, Inc. provided architectural, engineering and interior design services for a \$11.5-million Cancer Center for Barberton Citizen's Hospital. The Cancer Center includes a radiation therapy unit, infusion center, medical oncology and breast center.



After gaining approval to purchase land from the city, Barberton Citizen's Hospital built the 25,400-square-foot facility on the southwest corner of Tuscora Park with an understanding that the building would blend in with its surroundings and remain as park-like and natural as possible.

The Cancer Center's design was achieved after working closely with Barberton Citizen's Hospital and cancer center physicians. The primary design consideration was to create a comprehensive cancer treatment facility that maximized space efficiency to promote the highest order of professional competency and collaboration. The interior was designed to reinforce the professionalism of cancer center physicians and staff while also providing beautiful spaces intended to afford patients with a healing environment defined by comfort, respect and dignity.

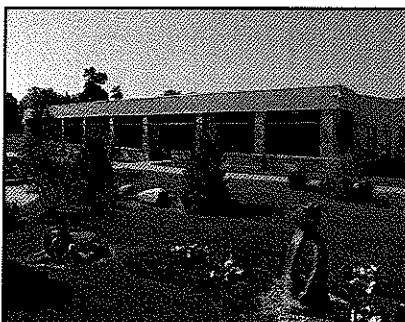
Large windows provide patients with optimal views of the surrounding park. A healing garden is visible from various treatment rooms to aid in the relaxation and well being of patients. To bring nature inside, several large oak trees, which were saved from the building site, were used to make decorative beams and sculptures.

■ Completion Date — February 2007

■ Client — Barberton Citizens Hospital
155 Fifth Street, NE
Barberton, Ohio

■ Size — 25,400-SF

■ Cost — \$11.5 million

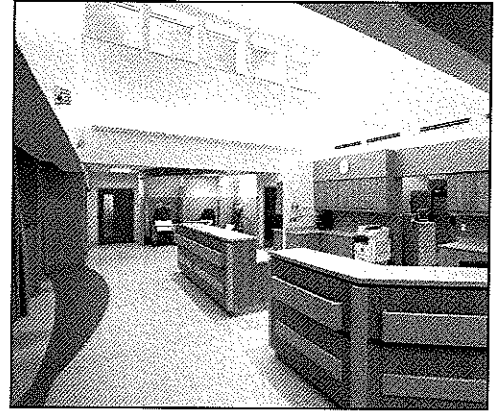




MEDCENTRAL HEALTH SYSTEM - SHELBY HOSPITAL AMBULATORY SURGERY CENTER

Firm's Responsibility

Hasenstab Architects, Inc., provided architectural services for a \$5.8-million ambulatory surgery center addition at Shelby Hospital in Shelby, Ohio. The addition replaced the existing surgery area – built in 1958 – in the main hospital.

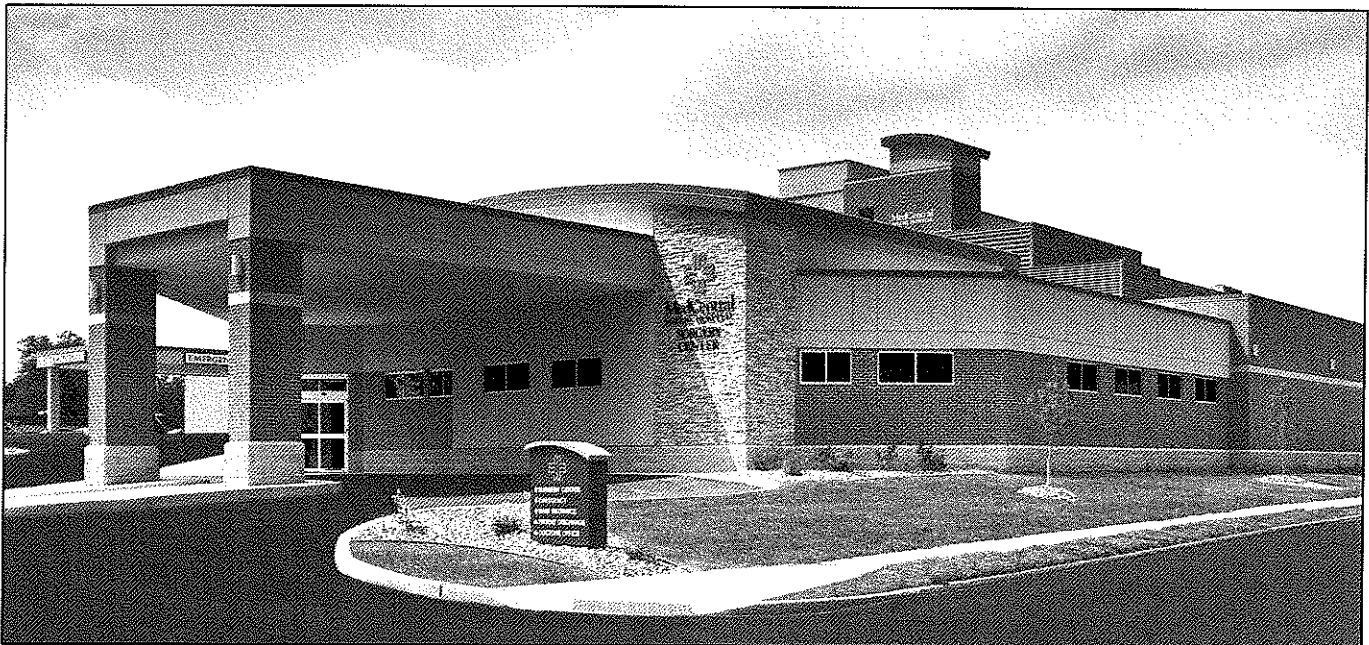


The surgery center focuses on orthopedics, endoscopy and general surgery, and houses two operating rooms and one minor procedure/endoscopy room. The unit includes 17 hold/prep/recovery beds, as well as a new public/patient entry and waiting room, new service elevator tower, support areas and physician lounge, and a new grade-level entry with accessible parking.

Design elements include the use of natural materials and fabrics in soft, soothing colors. Wood paneling and casework give the area a home-like feel. Clerestory glazing was incorporated in the vaulted, open ceiling above the prep-hold nurse's station to bring natural light into the space. A computer terminal, comfortable furniture and a fireplace make the lounge area an inviting and relaxing place for family and friends to wait for their loved ones.

MedCentral Health System - Shelby Hospital, is a non-profit, general acute care/critical access hospital offering transitional care to patients in Central Ohio.

- Client – MedCentral Health System
Mansfield, Ohio
- Completion Date – July 2008
- Size – 17,500-SF
- Cost – \$5.8 million





COSHOCTON COUNTY MEMORIAL HOSPITAL WEST ADDITION & RENOVATIONS

■ Completion Date — December 2001

■ Client — Coshocton County Memorial Hospital
Coshocton, Ohio

■ Size — 52,800-SF

■ Cost — \$8,000,000

Firm's Responsibility

Hasenstab Architects, Inc. (HAI) was commissioned to program, design and develop contract documents for the site/civil and structural engineering and general construction of this \$8-million, 50,600-square-foot, six-story addition on the west side of the hospital and 2,200-square feet of "tie-in" renovation to the existing building. HAI also coordinated all equipment services/purchases, working directly with hospital staff in nursing, procedure/treatment and support service areas.

This project includes:

Ground Floor

- Receiving/Materials Management area
- Medical Records Department
- Cafeteria expansion
- Main entry for employees
- Electrical service main entry, switchgear room and emergency generator
- Two-story Boiler Room expansion
- 1,200-square feet of shelled space for future expansion

First Floor

- Angio/Radiology Procedure room
- General Radiology room
- MRI suite
- Radiology offices, reading rooms and staff locker areas
- Separate corridor access for outpatient treatment
- Shelled space for future Nuclear Medicine
- Main laboratory area, blood bank, offices, lounges/storage
- Renovated Phlebotomy and storage areas

Second & Fourth Floors

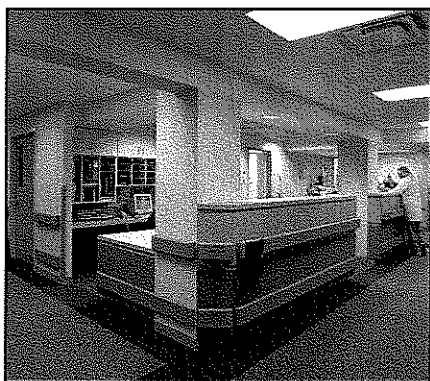
- Patient rooms, including six private and 10 semi-private
- Nurses' station, including staff/support areas

Third-Floor (Maternity Wing)

- Four LDRP suites
- Surgical Delivery Room
- Baby holding Nursery
- Nurses' station, including staff/support areas
- Family Waiting Room
- Automatic Infant Security system

Fifth & Sixth Floors

- HVAC Central Air Handling equipment
- Central Vacuum equipment facility
- Chillers
- Elevator equipment





AKRON GENERAL MEDICAL CENTER 100 BUILDING – PATIENT WING RENOVATIONS

■ Completion Dates – 1989 - 1996

■ Client – Akron General Medical Center
Akron, Ohio

■ Contact – Mr. Joe Plavecski
Administrative Director
of Plant Operations/Construction
330.344.6559

■ Sizes/Costs –

2100 Wing/11,950-square feet (\$420,000)

3100 Wing/10,400-square feet (\$341,000)

4100 Wing/11,570- square feet (\$470,000)

5100 Wing/11,600- square feet (\$530,000)

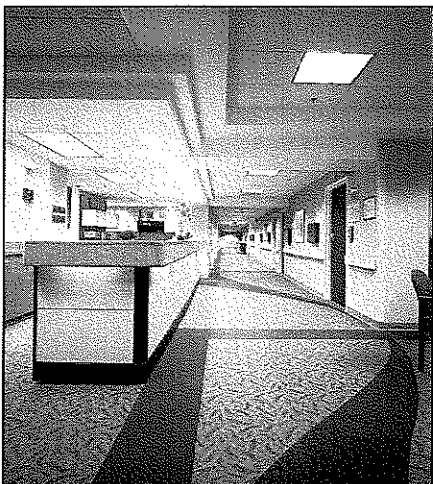
7100 Wing/11,950- square feet (\$420,000)

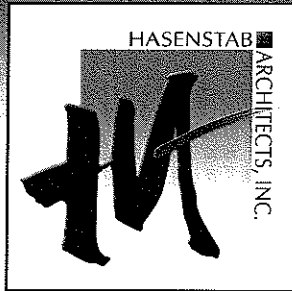
8100 Wing/11,950- square feet (\$520,000)

Firm's Responsibility

The 100 Building at Akron General Medical Center is a nine-story building with nursing units on the second through ninth floors. Hasenstab Architects, Inc. provided architectural services from concept design through construction for the second, third, fourth, fifth, seventh and eighth floors. This involved complete renovation of these units to create a more patient-friendly, non-institutional environment. It also included complete replacement of nurses' station areas to facilitate more efficient nursing functions and use of up-to-date modern technology. Handicapped patient rooms were also added as required by ADA guidelines.

Hasenstab Architects also provided design services for the sixth-floor inpatient psychiatric unit, as well as the ninth floor conversion from med-surg rooms to a Skilled Nursing Facility.





AULTMAN HEALTH FOUNDATION AULTMAN WOODLAWN

■ Client — Aultman Health Foundation
Canton, Ohio

■ Completion Date — Spring 2003

■ Size — Confidential

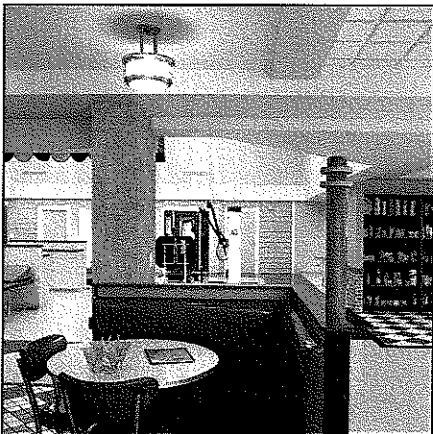
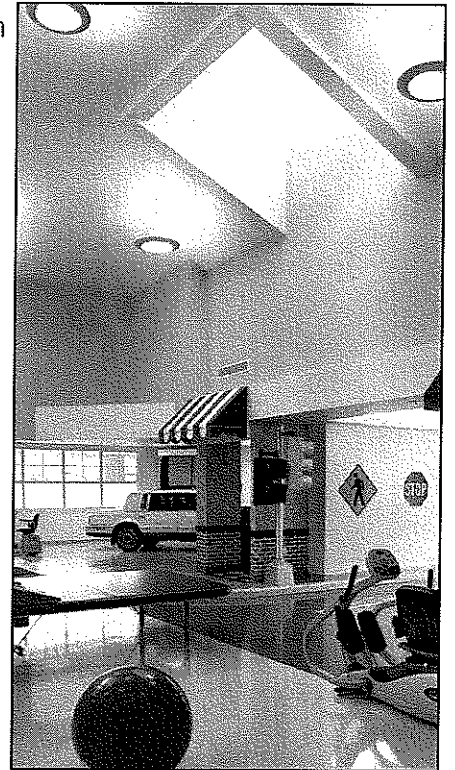
■ Cost — Confidential

Firm's Responsibility

Hasenstab Architects, Inc., worked with the Aultman Health Foundation to provide architectural, engineering and interior design services for a new 75,000-square-foot skilled nursing and rehabilitation facility.

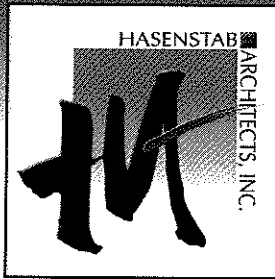
Design/Program Elements

This residential sub-acute hospital is situated within a natural park setting on a 23-acre site in Canton, Ohio. Included in this facility is a 64-bed skilled nursing unit, a 32-bed rehabilitation unit, exercise area, home care offices, nursing services, hospice offices, conference space, café and beauty salon. The facility has been designed in three wings, created in clusters of eight rooms to provide a "neighborhood" atmosphere, allowing support staff to provide prompt and efficient patient care.



The exterior utilizes a combination of brick work, wood trim and stone detailing to blend with its park-like surroundings.





SISTERSVILLE GENERAL HOSPITAL REPLACEMENT FACILITY HOSPITAL

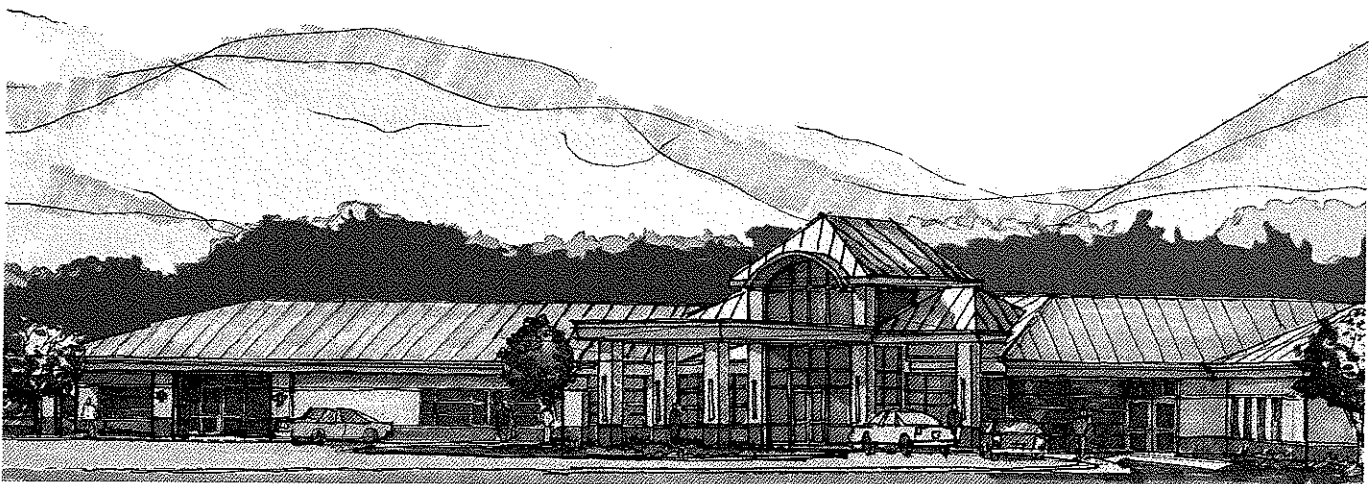
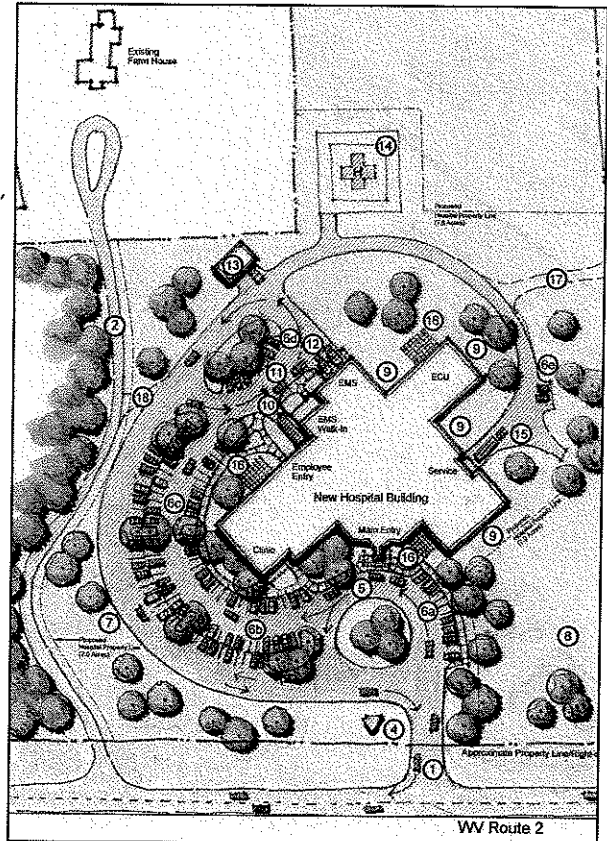
- Completion Date — Project on Hold
- Client — Sistersville General Hospital & City of Sistersville, West Virginia
- Size — 43,500-SF
- Cost — \$11 million
- Engineers
 - Mechanical/Electrical/Plumbing
Scheeser*Buckley*Mayfield, Inc.
 - Site/Civil Engineering & Landscape Design
Environmental Design Group, Inc.

Firm's Responsibility

Hasenstab Architects, Inc., worked with Sistersville General Hospital and the City of Sistersville to provide architectural, engineering and interior design services for a 43,500-square-foot replacement hospital in rural West Virginia.

Design/Program Elements

Located along the Ohio River, this new facility faces Route 2 on an 85-acre site and includes 12 medical/surgical extended care beds, six Emergency Department beds, radiology, physical therapy, cardiopulmonary rehabilitation, and outpatient specialty and family clinics.





FOCUS ON: BEHAVIORAL HEALTH

The principals of New Heights Group

bring extensive experience in the planning and development of behavioral health services. We have worked with over 200 psychiatric and substance abuse providers nation-wide, including both freestanding and hospital based services. Treatment programs have included inpatient services (child, adolescent, adult and geriatric), intensive care units, forensic units, outpatient services, intensive outpatient programs and partial hospitalization. We can:

- Perform comprehensive market analyses that considers local, state and national trends to predict specific behavioral health services;
- Conduct primary research of users, physicians and gatekeepers;
- Assess program feasibility—market and financial;
- Evaluate service and program mix and making investment/divestment recommendations;
- Develop strategic and marketing plans;
- Facilitate integration initiatives among providers;
- Evaluate facility needs and preparing facility plans for expansion or renovation.

We contribute to the behavioral healthcare industry with articles in trade and professional journals, serving as faculty for behavioral health conferences, and serving on committees of professional organizations. In 1990, one of the New Heights Group founders was instrumental in the efforts to organize the only national system of independent psychiatric providers. In 1994, we conducted a study with the AHA on the status of integration efforts among behavioral health providers. In 1999, we were involved in a national survey of integrated behavioral health systems along with the Partnership for Behavioral Health with the Institute for Behavioral Health.

CLIENT CASE STUDY



Harrisburg, Pennsylvania

SCENARIO

PinnacleHealth is a leading healthcare system with several campuses in and around Harrisburg. The organization has a longstanding commitment to Behavioral Health and provides a comprehensive array of inpatient and outpatient Behavioral Health services. In response to concerns regarding the financial performance of these services, PinnacleHealth engaged the professionals at New Heights Group to assess the services provided and develop a performance improvement plan.

ACTION

New Heights conducted a strategic assessment of the Behavioral Health service line including an evaluation of market performance and opportunities, operational performance, and financial performance. The assessment pointed out significant performance problems in some of the outpatient services provided. This led to the development of an aggressive turn around plan that involved design and implementation of a productivity based compensation system for clinicians as well as changes to a number of operational processes. Shortly after implementing the plan, the program achieved profitability for the first time in several years.

RESULTS

"You should put this in your 'win' column, because you certainly played a part in getting us moving in the right direction."

Judy Vercher, Director, Behavioral Health Services,
PinnacleHealth, Harrisburg, PA



NewHeightsGroup

Behavioral Health Services Partial Client List

Anderson Area Medical Center

Anderson, South Carolina

Feasibility and implementation assistance for a joint venture behavioral health organization.

Castle Medical Center

Kailua, Hawaii

Operational assessment and turnaround plan for a community based behavioral health system.

Carolinas Health System

Behavioral Health Center

Charlotte, North Carolina

Market assessment, volume projections, and facility plan for freestanding behavioral health center.

Harding Hospital

Columbus, Ohio

Turn- around strategy, operations assessment, and joint venture strategy and assistance for freestanding behavioral health hospital.

Good Samaritan Health Systems

Kearney, Nebraska

Strategic plan for behavioral health services.

Guthrie Health System

Sayre, Pennsylvania

Strategic plan and implementation assistance for behavioral health service and psychiatric practice.

Hospital Sisters Health System

Eau Claire & Chippewa Falls, Wisconsin

Feasibility study for the development of an integrated behavioral health program for two hospitals that are part of the same health system.

John Muir Health

Walnut Creek, California

Assessment of current operations and market position for 72 bed freestanding behavioral health hospital.

Lancaster General Hospital

Lancaster, Pennsylvania

Strategic and operational plan for behavioral health unit and psychiatric practice.

Lehigh Valley Hospital Center

Allentown, Pennsylvania

Plan for the integrating behavioral health services in a multi-hospital system with several campuses.

Middletown Regional Hospital

Middletown, Ohio

Strategic options for the continuation of behavioral health services and facilitation for a joint venture to develop a new facility.

Natchaug Hospital

Mansfield Center, CT

Facilitation of strategic planning retreat.

Ohio Health

Columbus, Ohio

Strategic plan for behavioral health and joint venture evaluation and facilitation for hospital based behavioral health services.

Oregon State Hospital

Salem, Oregon

Analysis of the role of this facility within the overall mental health system and development of alternatives for statewide reform as the basis for funding of a replacement facility.

Pine Rest Christian Mental Health Services

Grand Rapids, Michigan

Multiple planning engagements over the years, including facilitation of annual planning retreat.

PinnacleHealth

Harrisburg, Pennsylvania

Strategic assessment and assistance with financial turnaround of outpatient service.

Penrose-St. Francis Health Services

Colorado Springs, Colorado

Operational assessment and evaluation of strategic options for behavioral health services.

Pittsburgh Mercy Health System

Pittsburgh, Pennsylvania

Strategic plan for behavioral health services for two hospital system.

ProHealth Care

Waukesha, Wisconsin

Strategic and operational assessment of psychiatric and substance abuse programs.

Providence St. Peter Hospital

Olympia, WA

Strategic and operational assessment for psychiatric and substance abuse programs..

Seton Health System/St. David's Healthcare Partnership

Austin, Texas

Strategic plan and joint venture evaluation.

St. Alexius Medical Center

Bismarck, North Dakota

Strategic plan for behavioral health service.

St. Alphonsus Regional Medical Center

Boise, Idaho

Strategic plan for behavioral health services and business plan for the development of a new freestanding facility.

St. David's Healthcare Partnership

Austin, Texas

Strategic plan and joint venture evaluation.

St. Joseph Regional Health System

Bryan, Texas

Market assessment and strategic plan development for collaborative initiative with the Texas A & M University School of Medicine.

St. Patrick Hospital and Health Sciences Center

Missoula, MT

Assistance with selection of a contract manager for behavioral health services.

St. Peters Hospital

Helena, MT

Assistance with the selection of a contract manager for development of a behavioral health services program

St. Vincent's Health Services

Bridgeport, Connecticut

Assistance with the acquisition of Hall- Brooke Behavioral Health, planning for a replacement facility, design of organizational integration plan and subsequent facilitation of strategic planning process.

Stamford Health System

Stamford, Connecticut

Strategic and facility plan for behavioral health service.

The Ohio State University Medical Center

Columbus, Ohio

Strategic and facility plans, and joint venture evaluation and assistance.

The State of South Dakota

Neuroscience Institute

Yankton, South Dakota

Operations assessment and program assistance for state hospital.

Howard J. Gershon, FACHE

Mr. Gershon is a founding Principal of New Heights Group. He has spent more than 30 years as a healthcare consultant, specializing in strategic planning, market research, program development and facility development for behavioral health providers throughout the U.S. A representative sampling of engagements include:

- Led the development of a national alliance of specialty health systems. Activities included an initial market feasibility study, development of the alliance's business plan and assistance with operationalizing the organization.
- Organized a Clinician Hospital Organization to pursue behavioral health carve-outs. The engagement included both a feasibility evaluation and preparation of a business plan.
- Directed a research project with the American Hospital Association's Section on Psychiatric and Substance Abuse Services. The project identified innovative initiatives providing linkages between behavioral health providers and other healthcare provider organizations.
- Facilitated collaboration discussions between a community mental health center and a general hospital. The objective of these discussions was to identify opportunities for collaboration as well as to evaluate potential organizational models.
- Developed a plan for integrating behavioral health services within a regional health care system. Working with a task force of senior managers and physicians, alternative service configurations were developed and evaluated based on operating capabilities and market opportunities.
- Directed a national survey of Integrated Behavioral Health Systems in partnership with the Institute for Behavioral Healthcare. The survey identified key characteristics and critical issues being addressed by systems throughout the U.S.
- Prepared a strategic behavioral health plan for a community hospital. The plan addressed issues that included organization structure, market position, program and service mix, and medical staff structure and provided projected financial performance.

Mr. Gershon is a Fellow of the American College of Healthcare Executives and a Fellow and past Chair of the Board of Directors of the American Association of Healthcare Consultants. He has served on the Board of the Health Services Management and Policy Alumni Association at The George Washington University, is listed in *Who's Who in Health Care*, is a member of Strategic Health Care Marketing's Editorial Advisory Board, and has participated as a panel member or speaker in workshops and seminars on various hospital and health related issues.

Mr. Gershon is a frequent contributor to healthcare literature with articles and quotes appearing in *Hospitals and Health Networks*, *Healthcare Executive*, *Modern Healthcare*, and *Health Care Strategic Management*. He recently authored a series of columns on strategic marketing issues for *The Journal of Healthcare Management*.



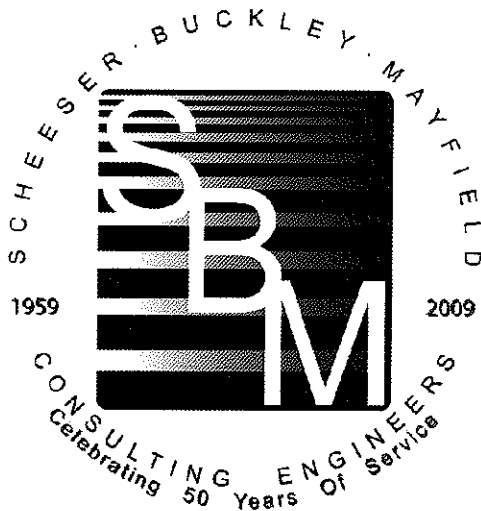
ABOUT THE FIRM

Scheeser Buckley Mayfield LLC is an Ohio-based Consulting Engineering firm that serves clients throughout Ohio and the surrounding states. The firm was established in 1959 by Walter L. Scheeser and Edwin J. Buckley, specializing in the design of mechanical systems for the construction industry. The firm has enjoyed a steady growth in clients and geographical area served throughout its history, and its services now include electrical, civil, and telecommunication design.



Scheeser Buckley Mayfield LLC has developed an outstanding reputation for both its accessibility to its clients and the clarity and completeness of its documents. The firm has been a leader in the application of new technology. It has extensive experience in the design and analysis of projects of all sizes, which it can draw upon for future projects. Each project requires an analysis of the most cost effective system available based on the client's design parameters. It is also the responsibility of the design team to determine if other options exist which may be beyond the scope of the current budget and which need to be considered on the current project to allow for future growth. Scheeser Buckley Mayfield LLC gives this personal attention to each project by determining the project design which can be implemented within the client's budget while applying innovative design concepts.

Many of SBM's projects originate from clients who have used its services previously and wish to continue a professional association. Scheeser Buckley Mayfield LLC strives to provide very professional and competent engineering services to all of our clients and to develop a personal relationship with these clients. This on-going association with clients provides an opportunity for them to better understand design concepts as well as the logic behind the decisions which may affect their systems for many years after the project's completion.

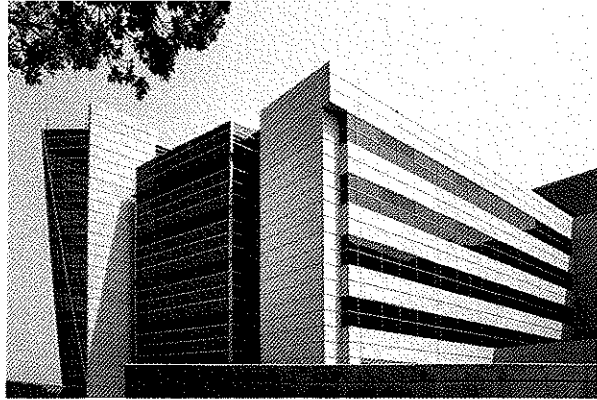


SCHEESER BUCKLEY MAYFIELD LLC

PROJECT EXPERIENCE

CABELL HUNTINGTON HOSPITAL — 165 Bed Patient Tower

The CHH Bed Tower Project is the start of a replacement hospital for this facility. The project houses a new emergency room, ICU/CCU rooms, NICU, maternity floor, and patient rooms. The total project area consists of 175,000 square feet of new construction and 50,000 square feet of remodeled areas. The electrical portion of the project involved the installation of redundant 12.47KV utility sources to an owner owned automatic throwover switch. 12.47KV distribution is fed to multiple double-ended unit substations for generation of 480V and 208V power for the 175,000 square foot hospital addition. The hospital addition includes a new emergency department and includes integration with the existing emergency department. In order to maintain operation of the emergency department, a temporary emergency department was created and built which included two new elevators which are to serve the temporary emergency department and helipad. The addition included a medical-surgical ward, Labor-Delivery-Recovery (LDR) floor with three C-section operating rooms, an intensive care ward, a critical care ward, and a pediatrics ward. The emergency power system was upgraded to include a 10,000 amp paralleling gear, existing generators added to the new paralleling gear and the addition of two 1,750KW generators. The emergency power system provided a 2,000 amp feed to the new building and distribution to the three emergency power branches (life safety, critical, and equipment branches) via use of transfer switches.



CAMDEN CLARK MEMORIAL HOSPITAL — South Addition

Scheeser Buckley Mayfield LLC provided mechanical and electrical design services for a new building addition to the Camden Clark Campus. The project was completed in several phases. The first phase involved the completion of a 13,000 square foot Plant Operation Building. This portion of the project included a 500 hp boiler installation to expand the existing plant and a 1,300 ton centrifugal chiller plant, cross connected with an existing plant. A new water service entrance was added.



Electrically, the existing service was reworked to accommodate the new addition and to backfeed the existing hospital. A phased switchover of the electrical service minimized outages to the existing hospital during this work. Two 1,250 KVA generators with parallel switchgear were installed. All services were extended to be ready for connection to the new addition portion of the project.

The second phase of the project involved the construction of a four story 180,000 square foot South Addition. The building is expandable up to seven stories. This building houses approximately 95 patient beds including 11 new surgeries, an endoscopy suite, central sterile, pre-and post surgical support areas, an intensive care and critical care unit, and a kitchen/dining area. A portion of this construction (7%) was renovation work. A challenge was to keep existing surgical rooms operational while construction was occurring on the roof above. A mechanical floor was built into the project that housed all air handling equipment, a sub-cooling chiller for the operating room suite, some electrical equipment, and the heating system components. The building utilizes digital automation lighting control which allows for scheduling and versatility.

KINGS DAUGHTERS MEDICAL CENTER – Heart Center

Scheeser Buckley Mayfield LLC performed mechanical, electrical and civil design for a new 200,000 sq. ft., 5 story addition to the existing hospital building. The building is expandable up to ten stories so future capacity was designed into the building to support five stories initially with medium voltage growth to ten stories. Design included lighting, receptacles, and systems devices for 70+ patient rooms, 9 Cath/EP labs, and various other spaces. 12.47 KV was extended from the main hospital building through a tunnel system under Medical Plaza Building A to an indoor 12.47KV switchgear arrangement. This arrangement is setup to



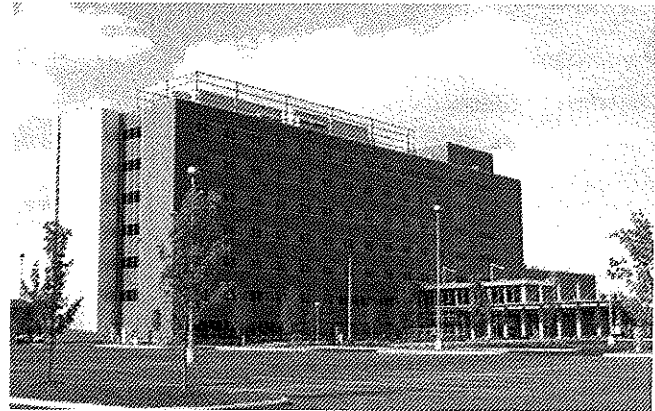
allow for this building to accept redundant feeds from the utility and be taken off of the current system. The indoor 12.47KV switchgear then feeds a 2000KVA indoor dry type substation with fans stepping down to 480/277V distribution voltage. Secondary electrical closets were designed on each floor, stepped down to 208/120V and distributed to each tenant space. In some locations the electrical panels were installed flush in the walls. Lighting throughout the building was 277V with feature lighting on an indoor sculpture and waterfall. The fire alarm system was designed for high rise construction so a voice system was design with future fire fighter telephone jacks located at each stairwell. Lighting protection was designed for future extension of the building. Site design included lighting of a healing garden with sculptures, and a future fountain with a sculpture. Essential power was extended from the main hospital's emergency power distribution system through the tunnel to an emergency distribution switchboard. This emergency distribution switchboard provides power to Life Safety, Critical, and Equipment branch transfer switches and downstream switchboards and distribution panels. Nurse Call and Code Blue systems were designed for each patient care area and other code required spaces. The Code Blue system will be extended from the existing head-end equipment located in Medical Plaza Building A. Public Address/Sound Systems were also designed for each floor in multiple zones to allow each area to provide its own music and distributed paging.

The HVAC system for the building consists of central station air handling units located in the basement of the addition. Chilled water and steam from the facility's existing chiller plant and boiler plant were extended to serve the new addition and interconnected with the utility services serving the M.O.B. to provide a system loop. The air distribution system consists of VAV terminals with hot water reheat coils. A smoke control system was designed to accommodate the two-story atrium with design considerations given to the addition of future floors and extension/relocation of the smoke control fans located on the roof of the addition. Chilled water and steam/condensate piping were sized and roughed-in for future 10-story expansion. A large portion of the project involved relocating existing underground steam, chilled water, storm, sanitary, fire, and electrical utilities from within the footprint of the new addition. An early site utility relocation package was issued to help facilitate the fast track pace of the project. Phasing of the utility relocation was critical to minimize system downtime. Project also included the installation of a new 400 bhp boiler, upgrades to the existing boiler flue stacks, and a new deaerator system to increase the Boiler Plant capacity.

An early site package was issued to address ongoing flooding problems. Two major storms in 2004 dumped excess amounts of rainfall in the Ashland area. These heavy rains caused the existing public storm and sewer system to back-up and flood the hospital's medical office building that was under construction. These floods caused damage to the new basement mechanical room. SBM completed design to remove and replace the existing public system which included control weirs and overflow structures. The design of the Heart Center building included sanitary and storm duplex pump stations with back-up power.

ST. ELIZABETH HEALTH CENTER – New Hospital in Boardman, Ohio

This project consists of a new 210,000 sq. ft. Hospital addition to the existing Diagnostics Building. This addition consists of a seven-story facility containing 128 general medical surgical beds, 12 ICU beds and five surgical suites. Other areas include Central Sterile, Endoscopy, Physical Medicine and Rehabilitation, Pharmacies, Lab Areas, and a second floor Kitchen and Dining area open to an Atrium at the new Main Entry Lobby. The mechanical design includes the installation of an 1,800 ton central chilled water system, a 27,000 MBTU heating water system, and a steam boiler plant located within the facility. The main plants were designed

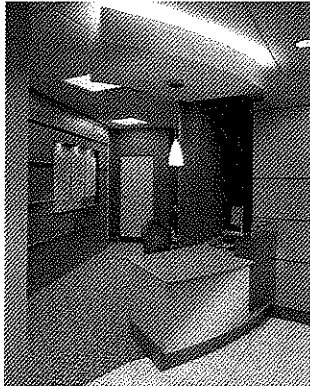


to incorporate the potential future addition of another 100 bed patient tower as well as back-feeding the existing Diagnostic Building. Multiple design strategies were used for energy efficiency including the use of variable volume flow on air, chilled water, and heating water systems. The steam boiler plant was designed with stack economizers to recover heat rejected through the boiler stacks. Multiple air handling units utilizing variable air volume terminal units with hot water reheat coils were used to maintain minimum air quantities. Plumbing systems included the design of medical gas utilities including new manifold systems, alarms, compressors, and associated piping. A secondary water service entrance and fire pump was also designed for the facility. Fuel oil systems were also designed serving steam boilers, hot water heaters, and generators, utilizing transfer pumps, day tanks, and an underground storage tank.

The electrical design includes the upgrade of the existing electrical service, installation of an emergency generator, upgrade of the fire alarm system, nurse call, and clock system. The lighting throughout is primarily 277 volt, and is an extension of the design of the existing Diagnostic Center. Accent lighting was designed in dining and serving areas. A new exterior mounted, medium voltage switchboard was designed to set up the new service arrangement. This three output switchboard backfeeds the existing Diagnostic Center, feeds two new 3000kva, 12.47kv delta to 480/277Y secondary, 3 phase, 4 wire unit substations, and has one spare for future expansion. Secondary electrical closets were set up on each floor to distribute power to branch circuits. Motor Control Centers were designed in mechanical spaces for distribution to mechanical equipment. The essential power distribution design included a new 1500kw, 480/277 volt, 3 phase, 4w diesel generator, which serves transfer switches and downstream switchboards for critical, life safety and equipment branch distribution systems. A voice type fire alarm system for a high rise building was designed, which included upgrading the existing Diagnostic Center system. A public address/paging system was designed which included multiple zones for each area for separate paging and music. An XM Radio system was designed in operating rooms, endoscopy rooms and main lobby. A wireless clock system was designed for ease of expandability and maintenance. Site design included area, canopy and pathway lighting. The Telecom Structured Cabling Design consisted of one main server room and nine telecom rooms. Connectivity between these rooms was achieved with multipair copper (voice,) singlemode and multimode fiber optic (data), and RG-11 (CATV) cable. These rooms terminated over 2000 CAT6 cables from outlets located throughout the facility.

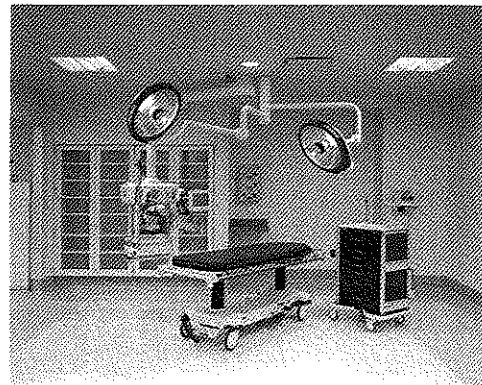
AULTMAN HOSPITAL -2010 Project

Scheeser Buckley Mayfield LLC will provide mechanical, electrical and civil design services for a new 300,000 square foot four-story medical building housing a Women's Center, Heart Center, Emergency Department, connecting to the existing Aultman Hospital. The new building will also have a helipad on its roof. Fire protection will include a fully sprinkled building. Also, included will be the design of a foam extinguishing system for the helipad. Central plumbing



equipment and systems, i.e. gas fired water heaters, water softeners, booster pumps, sewage ejectors, etc., which will be required to serve the building and will be designed and will be independent of any existing plumbing equipment and systems now serving the adjacent hospital buildings. A complete system of direct digital controls will be designed for all HVAC equipment. Interior lighting system for the subject buildings and spaces to include energy efficient lighting systems that utilize, in general, T8 fluorescent lamps and electronic ballast. Building exit signage will also be connected to the buildings emergency power distribution system. Exterior lighting system for any new walkway areas and parking lots for the new building will be designed. SBM civil design work

includes relocated and reconditioning existing public 42" storm sewer system, 12" sanitary sewer system, and 12" water main system to allow for the vacation of public streets. This work included 30' deep cuts and bore and jack operations along with video inspection and dye testing of existing lines. Sliplining and removed and replaced procedures were analyzed to determine most cost effective approach.



CABELL HUNTINGTON HOSPITAL - Joan C. Edwards Comprehensive Cancer Center



This comprehensive cancer center is part of the Edwards Foundation at Marshall University. The project consists of a 50,000 sq. ft. addition situated in front of Cabell Huntington Hospital and the Joan C. Edwards School of Medicine. The building layout consists of a basement, ground and first floor along with a connector bridge to connect the addition to the existing hospital.

The building will function as a somewhat stand-alone entity on the medical center campus and therefore all parties involved prefer to have the utilities for the building separated from the existing hospital and medical school building. To this end, a new water service, gas service entrance and electrical service shall be designed for this addition.

The HVAC system for the building consists of central station air handling units located in the basement of

the facility, a modular packaged boiler heating water plant, water cooled helical screw chillers and a direct digital control system. One of the air handling units in the basement shall be dedicated to serving the egress corridors in the building. Use of an air handling unit to serve the egress corridors is a requirement particular to NFPA 90A and this requirement is strictly enforced in the state of West Virginia. Having an air handling unit dedicated strictly for egress corridors increases the degree of difficulty in duct routing in the hospital tremendously especially when there are low floor-to-floor conditions such as in this cancer hospital addition. The air distribution system consists of VAV terminals with hot water reheat coils. Perimeter areas in the building with large amounts of glazing will have a separate radiant panel heating system.

The electrical portion of the project included addition of new medium voltage switch to an existing lineup to serve a new unit substation located at the cancer center. This unit substation provides 480V throughout the multiple floors as well as feeding the normal power to the three emergency power branches (life safety, critical, and equipment) via use of multiple transfer switches. Existing hospital emergency power distribution was extended to serve the cancer center. Also included in the design was a stairtower that connected the existing hospital to the cancer center. Multiple specialized medical equipment areas were designed including two linear accelerators, PET scan, CT scan, CT simulator as well as public, private, and pediatric infusion areas. A new atrium was built between the existing hospital and the cancer center and the existing servery and dining areas were also renovated as part of the project.



THOMAS MEMORIAL HOSPITAL – Clinical Pavillion

The new Clinical Pavillion at Thomas Memorial Hospital consists of a six-story, 160,000 sq.ft. of new construction and approximately 14,000 sq.ft. of renovation. General scope of new construction included: Three new surgeries and provisions for a fourth future surgery; full service kitchen and dining area; central sterile; outpatient prep/recovery; 19-bed OB unit; the top three floor contained 32 private patient rooms per floor with each floor being equipped with two negative pressure isolation rooms. General scope of renovation consisted of converting an existing surgery waiting area to a new 18-bed P.A.C.U unit. The mechanical design included expansion of the existing steam boiler plant and extension of the existing steam and condensate system from the existing boiler plant to the new addition; new high pressure, variable volume air handling systems with steam to water heat exchangers and variable volume terminal units for individual temperature control; new variable flow chilled water plant consisting of two 450 ton centrifugal water chillers and state of the fiberglass reinforced plastic cooling towers. Both the new chiller and cooling towers were interconnected to the existing chiller and tower piping to provide for a mean of redundancy. New local direct digital control systems for major HVAC equipment; new central medical vacuum and air systems. Modification and extension of the domestic water system extension of the existing fire protection system with standpipes and full automatic sprinkler project was designed.

MICHAEL P. WESNER, P.E., LEED AP

VICE PRESIDENT – PRINCIPAL - MECHANICAL ENGINEERING

PERSONAL RESUME

Mike is a graduate of Ohio State University in Columbus, Ohio. He received a Bachelor of Science Degree in Mechanical Engineering in 1981 and later that year joined the consulting firm of Scheeser Buckley Mayfield LLC which was then known as Scheeser*Buckley*Keyser.



During his first few years with the firm, Mike was heavily involved with the Title III of the National Energy Conservation Policy Act (NECPA). This governmental program was established as a cost sharing energy conservation grant programs. This program provided funds to study the operation of schools and hospitals to determine if there were ways to reduce their energy consumption. The program then funded energy conservation measures identified in the reports. As a result of this involvement in many audits and retrofit programs for public school buildings, college and university buildings and hospitals, Mike gained valuable experience in formulating and implementing energy conservation programs in buildings that result in real world savings. This experience carries on in the work that Mike does today.

Since the mid 1980's Mike's project experience has been concentrated in the following areas:

- Large hospital Expansion and remodeling projects.
- Hospital Boiler Plant / Chiller Plant replacement projects.
- University Laboratory projects, both new construction and renovation.
- University Classroom Facilities
- University Dormitory Facilities
- Animal research facilities.
- Secondary education facilities.
- Industrial facilities.
- Telephone / Communications buildings
- Recreation/Athletic Fitness Centers
- Worship Centers

On all of the above facility types, Mike has acted as the Principal in Charge for the firm. The Principal in Charge (PIC) is the single point of contact and is responsible to make sure the project gets done on time and on budget.

Other types of project experience Mike has had are listed as follows:

- Projects where SBM was the prime design professional hired by the Owner. Typically this has been for chiller plant/boiler plant or other type of main A/C system replacement. This work involved hiring the sub-consultants, preparing the budget/schedule, writing the "front end" specification documents and doing all of the day to day construction administration.
- Projects where SBM was hired to diagnose and correct mechanical system problems
- Projects where SBM was hired to do Mechanical and Electrical Construction Cost Estimating

Mike is a LEED™ 2.0 Accredited Professional and a member of ASHRAE, ASPE, NFPA and BOCA.

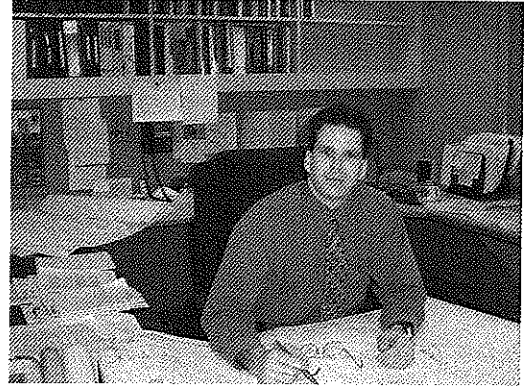
Scheeser Buckley Mayfield LLC

MARLON C. HATHAWAY, P.E.

VICE PRESIDENT – ELECTRICAL ENGINEERING

PERSONAL RESUME

Mr. Hathaway attended The University of Akron where, in 1992, he earned his Bachelor of Science Degree in Electrical Engineering. While at The University of Akron, Mr. Hathaway accepted a position through the cooperative education program at the Veteran's Administration Medical Center in Brecksville, Ohio. During this engagement he gained knowledge of the construction industry.



After graduation, Mr. Hathaway began his career as a consulting engineer with Scheeser Buckley Mayfield LLC. He has since been involved with all aspects of electrical design including: lighting, power distribution, telecommunications systems, fire alarm systems, video/security systems, nurse call systems and CATV/MATV distribution systems. Mr. Hathaway's responsibilities include both budget and finish electrical construction estimates. He has worked closely with electrical contractors on recent owner requested design/build projects.

During his consulting career, Mr. Hathaway has designed many hospital and health care related buildings. His experiences cover a wide spectrum in this specific field including O.R. Suites, Pathology Labs, Emergency and Trauma Rooms and Medical Office Buildings. He has prepared contract documents for complex electrical medical equipment including x-ray, CT scanners and digital video processing equipment. He has completed projects in the states of Ohio, West Virginia, Kentucky, Pennsylvania, and Florida.

Mr. Hathaway has extensive experience in the design of complex systems such as fire alarm, audio/video, telecommunications (LAN) systems, and CATV/MATV distribution systems. He is currently a member of the Illuminating Engineering Society (IES), Cleveland Section and has also served as Treasurer in past years.

Mr. Hathaway is registered in the State of Ohio, West Virginia, Kentucky, Pennsylvania and Florida.

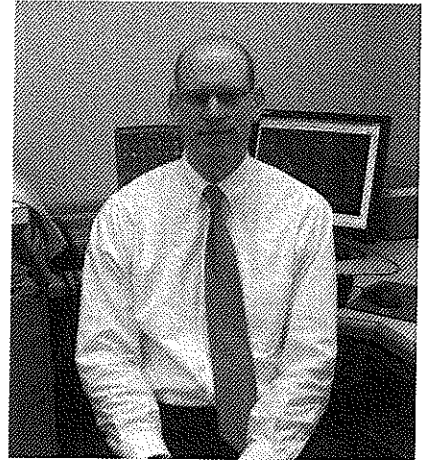
KIRBY A. STOLLER, P.E., LEED AP MECHANICAL ENGINEER

PERSONAL RESUME

Mr. Stoller attended the University of Akron and received his Bachelor of Science in Mechanical Engineering, December 1999. Upon graduation, Kirby joined the firm of Scheeser Buckley Mayfield LLC. He passed his Professional Engineering License exam in April 2004.

During college, Kirby was involved in the University of Akron's co-op program and worked at Rubbermaid, Inc, in Wooster, Ohio. He assisted with design projects to support the manufacturing plant and created plant layout drawings for the installation of injection molding machines, automation, and robots. He also met with vendors, obtained quotes, and placed orders to meet project deadlines.

Since working for Scheeser Buckley Mayfield LLC, Kirby has served as the mechanical engineer on a wide variety of projects, primarily for health care facilities and universities and has experience in all aspects of the design of mechanical systems for buildings, including HVAC, Plumbing, and Fire Protection. He has also performed project management tasks within the office on many of his projects to coordinate the design team's efforts.



Larger projects in Kirby's background include a 175,000 square foot Patient Bed Tower and 50,000 square foot Cancer Center Building for Cabell Huntington Hospital located in Huntington, WV with total construction budgets of \$55 million and \$18 million respectively; 140,000 square foot (\$42 million) Bio-Technology Lab building for Marshall University located in Huntington, WV; 80,000 square foot (\$18 million) medical office building for Marshall University School of Medicine located in Huntington, WV; 260,000 square foot office building for Fed Ex located in Green, OH; 150,000 square foot church for The Chapel located in Green, OH.

Kirby designed the mechanical systems for the renovation of Douglass High School which is listed in the National Register of Historic Places. The project consisted of a total overhaul of the existing building systems. The interior was renovated to house medical offices and classrooms.

Other projects that Kirby has designed include:

- 15,000 square foot Dialysis Clinic for Cabell Huntington Hospital
- 28,000 square foot facility for St. Timothy's Lutheran Church
- 60,000 square foot office building renovation for the VA
- Additions and renovations to St. Mary's Correctional Center dining facility
- Emergency generator replacement for First Energy
- Multiple boiler, chiller, cooling tower, and air handling unit replacement projects.
- Numerous hospital renovation projects

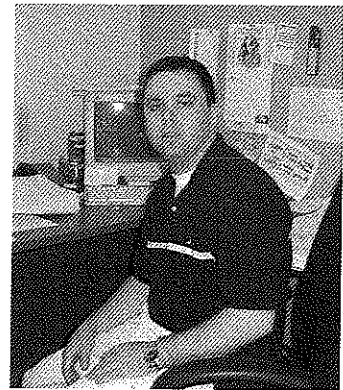
DOUG CHAPMAN ELECTRICAL ENGINEER

PERSONAL RESUME

Mr. Chapman attended Bowling Green University and graduated with a Bachelor of Science in Electronic Technology.

Mr. Chapman started his career at Dynamix Engineering, Ltd. located in Columbus, Ohio. He was responsible for electrical design at educational facilities, churches, outpatient clinics, tenant occupancies and offices. He also followed projects in to construction by reviewing shop drawing submittals.

Mr. Chapman then relocated to Cleveland, Ohio and worked at Bacik Karpinski Associates, Inc. He assisted with branch circuit design for both new construction and renovation projects. He was also involved in the specification process and assisted with transferring engineering red-lines to AutoCad.

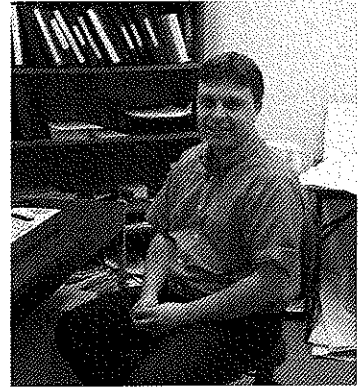


Mr. Chapman joined Scheeser Buckley Mayfield LLC in September 2001 and has been actively involved with many projects. He has been responsible for branch circuit design and configuration of new and renovated facilities including outpatient clinics, hospitals, educational facilities and offices. He has assisted with specification of lighting fixtures and corresponding lamping based on space function and client need and specification of over current, short circuit protection and safety devices for HVAC, plumbing, kitchen and other types of equipment. Mr. Chapman also assists with the design of various electrical systems, including nurse call, local intercom, and dimming.

JOHN A. VARGA, E.I.T. PLUMBING ENGINEER

PERSONAL RESUME

Mr. Varga attended the University of Akron where he received his Bachelor of Science in Mechanical Engineering in 1997. He has attained his E.I.T. Certification.



During his senior year in college, he began his engineering career working for a precast concrete manufacturer. His responsibilities included the design, layout, production and installation drawings, and volume calculations of extended aeration sewage treatment plants and pump stations. This included the calculation of treatment design based on Ohio EPA and Ten-State Standard requirements. Plant design included anti-floation measures, tank capacities, effluent quality, and OSHA compliance. Equipment design included blower and motor sizing, pump sizing, losses through piping systems, electrical requirements, flow measurement, and preparation of specifications.

Mr. Varga joined the consulting firm of Scheeser Buckley Mayfield LLC in May of 1999. Since joining the Plumbing Department, he has performed calculations sizing water lines, sanitary lines, booster pumps, water heaters, mixing valves, medical gas systems, and fire protection systems based on Ohio Basic Building Codes, National Fire Protection Association, and local county and city codes. He has been lead plumbing engineer on several large projects including Kent State University Residential Dormitories, Marshall University Dormitories, Jackson Strausser Elementary School, Heartland Behavioral Health Campus, University of Akron Dormitories, and Huttonsville Correctional Center. These projects included multiple buildings on a campus setting with centralized mechanical equipment plants and utility distribution loops.

Mr. Varga is a member of the American Society of Plumbing Engineers.

JOE HARLESS, RCDD

SENIOR TELECOMMUNICATIONS DESIGNER

PERSONAL RESUME

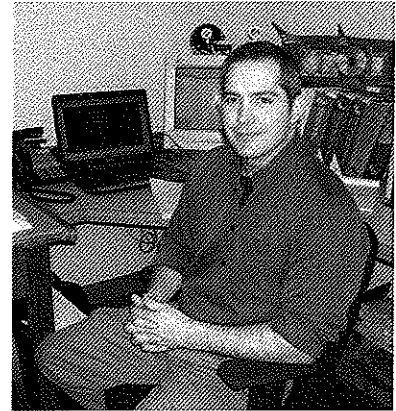
Mr. Harless has been in the telecommunications industry since he left the construction field in 1991 to install security alarms, fire alarms, CCTV systems, access control systems, CATV cabling, UTP and fiber optic structured cabling, voicemail systems, KSU's, and network electronics for GBS Computer & Communication Systems.

In 1993, Mr. Harless became a Project Manager for GBS where he supervised and coordinated all major installations. During this time he received training and certifications from many manufacturers to ensure GBS' ability to offer extended warranties for their installations.

In 1997, Mr. Harless accepted the position as Network Designer at GBS. There, he performed design, engineering and estimating duties for all GBS' structured cabling and networking projects. In addition to these functions, he provided technical training and support to the field technicians and was responsible for the research and selection of all materials, tools and test equipment.

He received the designation of Registered Communications Distribution Designer (RCDD®) from the Building Industry Consulting Services International (BICSI®) organization in 1997.

Mr. Harless joined Scheeser Buckley Mayfield LLC in July, 2002 as the Senior Telecom Designer and performs the majority of our structured cabling designs along with related telecommunications and technology systems.



Bicsi[™]
INDIVIDUAL
MEMBER

Bicsi[™]
RCDD

Scheeser Buckley Mayfield LLC