HARDLINES DESIGN COMPANY
4608 Indianola Avenue Columbus, Ohio 43214 TEL.614.784.8733 FAX.614.784.9336 www.hardlinesdesign.com

ARCHITECTURE * CULTURAL RESOURCES MANAGEMENT * PLANNING

REQUEST FOR PROFESSIONAL SERVICES
for a
Master Planning Consultant

Project Management Consultants
127 Public Square, 39th Floor
Cleveland, Ohio 44114

Cleveland Heights University City School District

Statement of Qualifications

August 19, 2011
4:00 PM

HARDLINES DESIGN COMPANY

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ARCHITECTURE * CULTURAL RESOURCES MANAGEMENT * PLANNING

19 August 2011

Mr. Steven Zannoni
Project Management Consultants
127 Public Square, 39th Floor
Cleveland, Ohio, 44114

Re: Master Planning Consultant Qualifications for the Cleveland Heights-University Heights City School District

Dear Mr. Zannoni:

Hardlines Design Company (HDC) is pleased to submit our proposal to provide professional Master Planning services for the above referenced project. HDC is an architectural and planning firm that specializes in the renovation and adaption of historic educational buildings and architecturally compatible additions. We are currently completing two historic school renovations in Cincinnati that were developed with the Roth Partnership. We are also working on another historic school renovation and expansion project located in downtown Columbus, Ohio. In addition to school Master Planning experience, our staff has significant building assessment experience nationwide. We are on the OSFC School Assessment Team operating out of the Macedonian District office.

For the Master Plan, we propose to utilize the services of **DeJong-Richter** of Dublin, Ohio, as our educational planning consultant who have performed similar Master Planning services for similar school districts nationwide. To assist in the development of the master plan and to implement its results, HDC's team also consists of Cleveland-based Engineers including **Karpinski Engineering** for mechanical, electrical, plumbing, and technology engineering, and **Barber & Hoffman, Inc.** for structural engineering. We have also included Columbus-based **Kinzelman Kline Gossman,** for site planning and landscape design on our Team. Most of these consultants have worked with HDC on previous educational projects and have extensive school building portfolios including ones in the Cleveland Heights / University Heights City School District.

This team consists entirely of businesses that understand and have experience with suburban municipalities such as these, and will put the highest priority on your project. Our team is also one that has successfully worked with over 30 school districts throughout Ohio from master planning entire districts to the construction of both new and renovated facilities.

If you have any questions or require additional information, give us a call at (614) 784-8733. We look forward to the results of the selection process!

Sincerely,

Charissa W. Durst, AIA, LEED AP BD+C
President
614-784-8733 (work)
614-906-3113 (cell)

Enclosure

Cc: file

Master Planning Qualifications
CLEVELAND HEIGHTS – UNIVERSITY HEIGHTS CITY SCHOOL DISTRICT

COMPANY OVERVIEW, SIZE AND LOCATION

Hardlines Design Company (HDC) is a full-service architecture and planning firm located in Columbus, Ohio. The firm was founded in 1990 by Charissa W. Durst, AIA, LEED AP BD+C and was incorporated in January 2000 as a for profit C - corporation. HDC consists of 17 full-time staff located in Columbus, Ohio. We can be reached at (614) 784-8733 tel. and (614) 784-9336 fax. Our Website is www.hardlinesdesign.com.

HDC specializes in architectural design, building assessments, and renovations. Their work has received numerous design awards and has appeared in *Progressive Architecture, Architecture, and AIA Architect*. The firm's experience includes comprehensive planning studies, sustainable design work, renovation work, the adaptive reuse of historic buildings, and new building designs for both public and private clients. Hardlines Design Company is certified as an MBE, DBE, and FBE with federal, state and local government agencies. HDC's architects and designers are also LEED (Leadership in Energy and Environmental Design) accredited professionals.

The total staff of seventeen people includes architects, designers, interior designers, an exterior enclosure specialist, LEED Specialists, building historians, archaeologists, and researchers. With this breadth of specialization, the company can address all aspects of any renovation or new construction project and bring special creative talents to each task. HDC is committed to providing the best possible design at competitive cost. Talented young designers work in close coordination with experienced managers. The staff is proficient in computer-assisted drawing applications such as AutoCAD, Microstation, Revit, and Sketchup in addition to a wide range of graphics programs. Our building types include mixed-use, educational, commercial, judicial, and recreational facilities.

HDC is experienced at Sustainable Design Work and has done several LEED Studies for Federal Agencies. Most of HDC's work is evaluated for LEED conformance whether or not the project is actually seeking Certification. The Firm maintains a LEED product library that is continually updated once product research is completed and product compliance is verified. Our project specifications are tailored to LEED requirements and sustainable design. In addition, our staff is trained to seek the paperwork required to meet USGBC standards for the specific project credits being sought. We encourage building commissioning on all our projects and independent commissioning whenever possible.

HDC's project teams regularly review the most cost-effective means to plan, design and construct facilities according to client needs and aspirations. Through careful planning at all stages of construction, the firm offers the highest quality service to clients while constantly monitoring and controlling costs. The designs are buildable, durable and easily maintained when constructed. The company has a consistent track record of completing projects on time and within budget.

HDC's project teams work closely together to balance new ideas against practical considerations. They promote close collaboration with clients and consultants throughout the entire design process and their holistic methodology is thorough, multidisciplinary and effective. Satisfying client needs and interests beyond their expectations are our principle project drivers. This satisfaction is often achieved with very tight resources and/or schedules. HDC's project awards and client testimonials speak to the firm's creative approach and the successful results.

For the Cleveland Heights – University Heights City School District Master Plan we have included an Educational Planning Consultant on our Team that has significant National School planning and programming experience, and OSFC experience, including regional experience in northeastern central Ohio. **DeJong-Richter** also has familiarity with the Cleveland Heights – University Heights area having done some demographic studies for the District in the past. Our **DeJong-Richter** team consists of two experienced Educational Planners and a GIS specialist that will contribute to the Master Plan deliverable product that the District receives. DeJong-Richter

will assist us in putting together the best possible Master Plan to meet your 21st Century educational goals and objectives. Working with DeJong-Richter HDC can also advise you on how to make best use of OSFC money – where permitted on the project.

Planning Advocates, Inc. will also to develop a base of support for your levy by soliciting public support for the Master Plan at the earliest possible time. This support will be gained through input received from the Community, the District's teachers, support staff, etc. DeJong-Richter's approach is to position and empower the District by encouraging them to have ownership of the plan and a thorough understanding of any options being considered. The perspective that DeJong-Richter can offer, having worked on Master Plans for both large urban and sophisticated suburban districts such as yours, is essential to a successful plan.

Barber & Hoffman, Inc. (BH) is a premier structural engineering consulting firm, based in Cleveland that serves the Midwest and Mid-Atlantic states. Established in 1934, C. Merrill Barber founded the firm in Cleveland, Ohio. In 1998 Barber and Hoffman opened a Pittsburg branch office, and in 2009 a Columbus, Ohio branch office. In his distinguished career, Mr. Barber worked on many impressive Cleveland landmark buildings such as the Cleveland Museum of Art, Severance Hall, the Great5 Lakes Science Center, and the Cleveland Federal Office Building to name a few. The firm focuses primarily on medical and educational buildings, and can point to their involvement in a variety of recent school projects for the Cleveland Heights / University Heights City School District. Their understanding of the District and your facilities will be useful information to our Master Planning Team.

Karpinski Engineering (KE) is one of the foremost Engineers in the State that specializes in School Design. Founded in 1983, they offer mechanical, electrical, technology systems, plumbing, and civil engineering services. Their principle markets are medical, educational governmental, commercial and industrial facilities. KE's home office is also based in Cleveland with branch offices located in Columbus, Ohio, Uniontown, Ohio, and Ashville, New York. HDC's first project with Karpinski Engineering was a nationwide Sustainable Design Study in 2005. Since KE opened a Columbus branch office in 2007 HDC has been working with them on a regular basis, particularly on educational projects. KE has an impressive list of school projects statewide, many of which are Leadership in Energy and Environmental Design (LEED) projects. We are honored once again to have them on our Team.

Kinzelman Kline Gossman (KKG) is a professional landscape and planning firm that provides superior services to their clients. KKG is headquartered out of Columbus, Ohio with additional offices in Covington, Kentucky and Indianapolis, Indiana. Clients include public agencies, municipalities, private developers and property managers. HDC first started working with KKG on the Crestview Middle School Renovation in 2007, and is currently working with them on the Stewart Elementary School project in the historic German Village District of Columbus. Both projects were developed for Columbus City Schools.

KKG is committed to sustainable design as an early and integral part of their planning and design process. In fact, all design and planning projects developed by KKG begin with overall sustainability goals and consideration of LEED principles and precepts. KKG's multi-disciplined staff of LEED accredited Professionals guide projects through the process whenever LEED certification levels are being pursued.

Most of the Hardlines Design Company Team has worked together on multiple educational projects in Ohio in the recent past. ***This Team offers the experience needed to completely satisfy the Professional Services called for in the request for Qualifications by the Cleveland Heights – University Heights City School District*** *as stated in the RFQ.*

INSURANCE CERTIFICATE

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 6/15/2011

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Patricia A. Cholewa
STA, a Division of Oswald Companies 3401 Enterprise Parkway, Suite 101 Beachwood OH 44122	PHONE (A/C, No, Ext): 216-839-2800 FAX (A/C, No): 216-839-2815 E-MAIL ADDRESS: pcholewa@stassociates.net

INSURED	INSURER(S) AFFORDING COVERAGE	NAIC #
HARDL-1 Hardlines Design Company 4608 Indianola Ave. Columbus OH 43214	INSURER A: XL Specialty Insurance Co.	37885
	INSURER B: Travelers Indemnity Co of CT	25682
	INSURER C: Charter Oak Fire Insurance Co	25615
	INSURER D:	
	INSURER E:	
	INSURER F:	

COVERAGES **CERTIFICATE NUMBER:** 1018552832 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
B	GENERAL LIABILITY	Y	Y	6803839R26A	6/18/2011	6/18/2012	EACH OCCURRENCE	$1,000,000
	X COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence)	$1,000,000
	CLAIMS-MADE X OCCUR						MED EXP (Any one person)	$10,000
	X AI-Primary &						PERSONAL & ADV INJURY	$1,000,000
	X Non-Contributory						GENERAL AGGREGATE	$2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						PRODUCTS - COMP/OP AGG	$2,000,000
	POLICY X PRO-JECT X LOC							$
C	AUTOMOBILE LIABILITY	Y	Y	BA3846R631	6/18/2011	6/18/2012	COMBINED SINGLE LIMIT (Ea accident)	$1,000,000
	X ANY AUTO						BODILY INJURY (Per person)	$
	ALL OWNED AUTOS / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	X HIRED AUTOS / X NON-OWNED AUTOS						PROPERTY DAMAGE (Per accident)	$
	X AI-Primary X							$
	UMBRELLA LIAB OCCUR						EACH OCCURRENCE	$
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$
	DED RETENTION $							$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N		Y	6803839R26A	6/18/2011	6/18/2012	WC STATU-TORY LIMITS X OTH-ER	Ohio Stop Gap
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? N / A						E.L. EACH ACCIDENT	$1,000,000
	(Mandatory in NH)						E.L. DISEASE - EA EMPLOYEE	$1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - POLICY LIMIT	$1,000,000
A	Professional Liability Claims Made Retro Date:1/1/1995	N	Y	DPR9694035	5/20/2011	5/20/2012	Each Claim Aggregate Pollution & Environ.	$1,000,000 $1,000,000 Liab. Included

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Additional Insured and Waiver of Subrogation as designated above is provided when required of the Named Insured by written contract or agreement.

CERTIFICATE HOLDER

SPECIMEN
For evidence of insurance
coverage only OH 43214

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Patricia A. Cholewa

Master Planning Qualifications
CLEVELAND HEIGHTS – UNIVERSITY HEIGHTS CITY SCHOOL DISTRICT

1. FACILITY MASTER PLANNING EXPERIENCE

Hardlines Design Company (HDC) has significant facility assessment and planning experience for government installations all over the country. These have included Air Force Materiel Command (AFMC) bases nationwide, Naval Facilities Engineering Command at Great Lakes in Illinois, and the Camp Pinchot Historic District Reuse Study at Eglin Air Force Base in Florida. HDC has been responsible for whole building school assessments and Master Plans for Crestview Middle School and for Stewart Elementary School in Columbus and for building exterior assessments at Oyler PK-12, and Westwood PK-8 in Cincinnati working with the Roth Partnership.

For a number of years, HDC has been the reliable "go to" firm for facility planning evaluations and recommendations for Columbus City Schools districtwide. In addition, HDC's Senior Architect, Ms. Piersall, has significant school planning and design experience for elementary, middle and high school building programs. She also has worked on new and renovated school Master Plans in several New England states that resulted in redistricting, new school building construction and/or renovation, and school district consolidations and mergers. She also did a comprehensive Master Plan and evaluation for all of the buildings on the American School for the Deaf campus with renovation and reuse recommendations for each of nine structures.

Five Relevant Ohio Projects projects that we have been actively involved with include:

1/ Oyler Pre-K-12 School*	Cost: 8M
2/ Harrison High School*	Cost: 12M
4/ Westwood K-8 School*	Cost: 8M
5/ Crestview Middle School	Cost: 8M
6/ Stewart Elementary School	Cost: 8.5M

**These are projects developed with the Roth Partnership Cincinnati, OH and HDC Staff.*

HDC's Consultants for the Cleveland Heights/University Heights City School District Master Plan also have considerable school design understanding and Master Planning experience. **DeJong-Richter** did a long range Facilities Master Plan for Virginia Beach City Schools, in Virginia, Jeffco Public Schools in Lakewood, Colorado, and Grand Rapids Public Schools in Michigan to name a few.

Karpinski Engineering designed the MEP/T systems for Beaumont School in the Cleveland Heights / University City School District as well as schools in surrounding school districts. They have executed very detailed educational facility assessments for Case Western University, Cleveland State University, and The Ohio State University and have conducted OSFC assessments for school sites throughout the State of Ohio.

Barber & Hoffman has been the structural engineer on several sizable new schools in the Cleveland and the Dayton Metropolitan Districts as well as engineer for many small additions to schools in the Cleveland Heights / University Heights School District.

Kinzelman Kline Gossman has had recent Master Pan experience while working on the Fort Hayes Campus complex for Columbus City Schools. They have additionally developed Master Plans for the Village Academy Campus in Powell, Ohio, and Circleville City Schools, in Circleville, Ohio.

The entire Team has the understanding and the experience to complete a very successful Master Plan for the Cleveland Heights / University Heights City School District and we welcome the opportunity to evaluate your existing structures for their potential to serve your 21st Century educational and facility needs.

Please see Appendix B – Project Experience for more detailed descriptions of these projects and other related work.

2. PROJECT TEAM AND ORGANIZATION

Key personnel on our project team include:

HARDLINES DESIGN COMPANY:

Charissa Durst, AIA, LEED AP BD+C – President / Principal-in-Charge

Ms. Durst is a registered architect who has worked on public school projects in the State of Ohio for approximately 12 years. Her first school projects were the renovation work for Marian Franklin High School and Avondale Elementary School for the Columbus City Schools. More recently, she has been actively involved in the development of the Oyler PK-12, and the Westwood PK-8 School in Cincinnati, Ohio with the Roth Partnership and the Stewart Elementary School in Columbus, Ohio with Columbus City Schools. ***Ms. Durst can devote 25% of her time to the Master Plan***

- Twenty-five years of architectural experience with new Buildings, Renovations, Historic Documentation and Planning Studies, including Schools.
- Master of Architecture, The Ohio State University, Columbus, Ohio.
- Bachelor of Science – Architecture, The University of Maryland, College Park, Maryland.

Laura G. Piersall, AIA, LEED AP BD+C– Project Manager / Programmer

Ms. Piersall is a registered architect with over 15 years of school planning and experience on projects ranging from small elementary schools to large public high school projects developed on the east coast. She also has secondary school campus planning experience and school regional consolidation plan experience. Ms. Piersall has 27years of total architectural and planning experience, and has been responsible for all phases of planning, design and development***. Ms. Piersall can devote 75% of her time to the Master Plan.***

- Experience with School Design and the Development of District Master Plans.
- Master of Architecture, Washington University, St. Louis, Missouri.
- Bachelor of Fine Arts, The University of Connecticut, Storrs, Connecticut.

Bill Faciane, CSI, AAIA – Building Assessor & Estimator

Mr. Faciane is trained as an architectural-engineer and facilities planner. He has also acted as an owner's representative, and as a project administrator. In his professional career he served as the Senior Facilities Planner for the City of Hampton, Virginia, where his work included design input and oversight on both new and fully renovated facilities for the municipality, including schools. ***Mr. Faciane can devote 50% of his time to the Master Plan.***

- Institutional Facilities Planning experience including School Planning.
- Coursework towards in Architectural Engineering, Virginia Polytechnic Institute, Blacksburg, Virginia.
- U.S. Navy Seabee Construction "A" School, Gulfport, Mississippi.

Vivian Majtenyi, AAIA –Designer

Ms. Majtenyi is an intern architect and designer who is also experienced in graphic design and computer programming. Ms. Majtenyi has worked on public school projects for both Columbus City Schools and Cincinnati Public Schools. Ms. Majtenyi is proficient in AutoCAD, MicroStation, Adobe PageMaker and Photoshop. She has also developed considerable skill using the 3-dimensional BIM software Revit. ***Ms. Majtenyi can devote 25% of her time to the Master Plan.***

Master Planning Qualifications
CLEVELAND HEIGHTS – UNIVERSITY HEIGHTS CITY SCHOOL DISTRICT

- Familiarity with School Design and OSFC standards.
- Master of Architecture, The University of Virginia, Charlottesville, Virginia.
- Bachelor of Fine Arts, The University of Georgia, Athens, Georgia.

Felix Rahardjo, LEED AP BD+C – Architectural Design and Assessments

Mr. Rahardjo will support the project with his assessment work of particularly the exterior envelopes. He is proficient in a wide variety of computer modeling and rendering applications which may be beneficial to the presentation of the final Master Plan. He is also experienced in the development of architectural details. ***Mr. Rahardjo can devote 25% of his time to the Master Plan.***

- Familiarity with School Design and OSFC standards.
- Master of Architecture, The Boston Architectural College, Boston, Massachusetts.
- B.S. Architecture, The Ohio State University, Columbus, Ohio.

Christine Trebellas, AICP –Architectural Design and Planning

Ms. Trebellas has seven years of historic preservation and planning experience in addition to architectural experience. She has a solid background in researching and documenting historic structures – including school buildings. Having worked for the National Park Services, she also has a thorough understanding of federal preservation regulations and guidelines. ***Ms. Trebellas can devote 50% of hers time to the Master Plan.***

- Familiarity with School Design and OSFC standards.
- Master of Architecture, Georgia Institute of Technology, Atlanta, Georgia
- Master of Architectural History, The University of Virginia, Charlottesville, Virginia.
- B.A. Art History, Tulane University, New Orleans, Louisiana.






Master Planning Qualifications
CLEVELAND HEIGHTS – UNIVERSITY HEIGHTS CITY SCHOOL DISTRICT

DeJONG-RICHTER:

Tracy Richter, CEFPI – Chief Executive Officer

Mr. Richter is a registered member of the Council of Educational Facility Planners International (CEFPI). His work includes strategic school district development using enrollment projections and capacity analysis, feasibility studies, community involvement for consensus, facilities and program assessments, and master facility planning.

- Developed Strategic Facility Plans and Educational Specification with over 1,000 school districts.
- Experience with key data analysis, community participation, and coordination of data.
- Bachelor of Arts – History, Purdue University, West Lafayette, Indiana.

Carolyn Staskiewicz, REFP – President

Ms. Staskiewicz is an active member of the Council of Educational Facility Planners International and is a Recognized Educational Facility Planner. She specializes in determining a school system's short- and long-term needs. Her work ranges from statewide assessments to educational facility specifications, in addition to running the firm's daily operations.

- Experience with Local and State Facility Master Plans, Enrollment Projections, and Educational Adequacy Assessments.
- Other work includes School District Capacity Studies, Needs Survey Reports, and Boundary Adjustments.
- Bachelor of Science – Management, The Ohio State University, Columbus, Ohio.

Lee H.L. Hwang, GISP – GIS Director

Mr. Hwang is a certified Geographic Information Systems Professional who processes and analyzes all types of geographically reference data. He is responsible for producing high quality maps and graphical data for use in reports and public presentations.

- Experience with creating geographical and geospatial information systems for Local and State Facility Master Plans.
- Other work includes Demographic Studies, Geocoding, and providing training to school districts.
- Bachelor of Science – Geography, The Ohio State University, Columbus, Ohio.

BARBER & HOFFMAN, INC.:

Robert E. Jordon, P.E. – President / Treasurer

Mr. Jordan currently serves as the President/Treasurer for managing the firm and as Principal-in-Charge and Project Manager for commercial, institutional and restoration projects. With over 35 years of experience with structural design, Mr. Jordon has worked on educational facilities throughout Ohio and the Greater Cleveland Metropolitan Area.

- Licensed Structural Engineer with experience with educational building assessments and master plans.
- Bachelor of Architectural Engineering, Pennsylvania State University, University Park, Pennsylvania.

Halim M. Saab, PE, LEED AP – Vice President

Mr. Saab manages educational, commercial, institutional, and healthcare projects in both the public and private sectors. He manages the firm's Information Technology, and oversees all CAD, Revit work. He performs various structural analyses and has conducted structural investigations of existing buildings.

- Experience with Structural Condition Assessments and Master Planning.

Master Planning Qualifications

CLEVELAND HEIGHTS – UNIVERSITY HEIGHTS CITY SCHOOL DISTRICT

- Master of Science– Civil Engineering, Cleveland State University, Cleveland, Ohio.
- Bachelor of Science– Civil Engineering, Cleveland State University, Cleveland, Ohio.

KARPINSKI ENGINEERING:

James G. MacMillan, P.E., LEED AP – Mechanical Engineer

Mr. MacMillan's experience includes all phases of mechanical engineering from schematic design through final construction, cost estimating, writing of specifications and detailed reports, as well as the evaluation of building systems. Under Mr. MacMillan's leadership, owner's needs are assessed and project goals are established and met. Areas of responsibility have involved design and supervision for public use buildings. Jim obtained his LEED Accreditation in 2002, which qualifies him by the US Green Building Council to oversee the design of environmentally friendly building projects. He was the first Engineer in the state of Ohio to become a LEED Accredited Design Professional.

- Bachelor of Science Degree in Mechanical Engineering, Cleveland State University.
- Certified Geothermal Designer by IGSHPA.
- Experience incorporating Sustainable Design and Significant School Design Experience.

Gregory A. Blatnik, P.E. – Lead Project Engineer, Electrical

Mr. Blatnik's experience includes all phases of Electrical Engineering. Areas of responsibility have involved design and supervision for public use buildings. Specific projects include electrical distribution systems for K-12 schools and educational facilities.

- Bachelors of Electrical Engineering, Johns Hopkins University, Baltimore, Maryland.
- Significant School Design Experience.

Tom Gilliland, RCDD – Lead Project Engineer, Technology

Mr. Gilliland possesses a solid foundation of technology systems knowledge and helps to assure successful completion of all mission critical projects. Specific projects include data network systems, voice over IP phone systems, voice/data/video processing and distribution, security, audio visual, a "smart board" technology.

- Associates Degree in Electrical Technology, United Electronics Institute.
- Significant School Design and College Experience.



Master Planning Qualifications
CLEVELAND HEIGHTS – UNIVERSITY HEIGHTS CITY SCHOOL DISTRICT

KINZELMAN KLINE GOSSMAN:

Brian P. Kinzelman, ASLA, AICP, LEED AP – Principal

Mr. Kinzelman is a registered landscape architect who is also Council of Landscape Architecture Registration Boards (CLARB) certified. His work experience includes site design, project planning, and campus planning for school districts and universities. Mr. Kinzelman has consistently demonstrated creative problem solving skills and technical expertise resulting in successful projects throughout the state of Ohio.

- Thirty-four years of experience with Landscape Architecture.
- Multiple Merit and Honor Awards for excellence in Project Design.
- Bachelor of Science – Landscape Architecture, The Ohio State University, Columbus, Ohio.

Sarah J. Richardson, ASLA, LEED AP – Associate, Landscape Architect

Ms. Richardson is a registered landscape architect with a reputation for creative and innovative project landscape planning and design. Her unique style and responsiveness to clients' graphic and conceptual needs has earned her the respect of a dedicated client base.

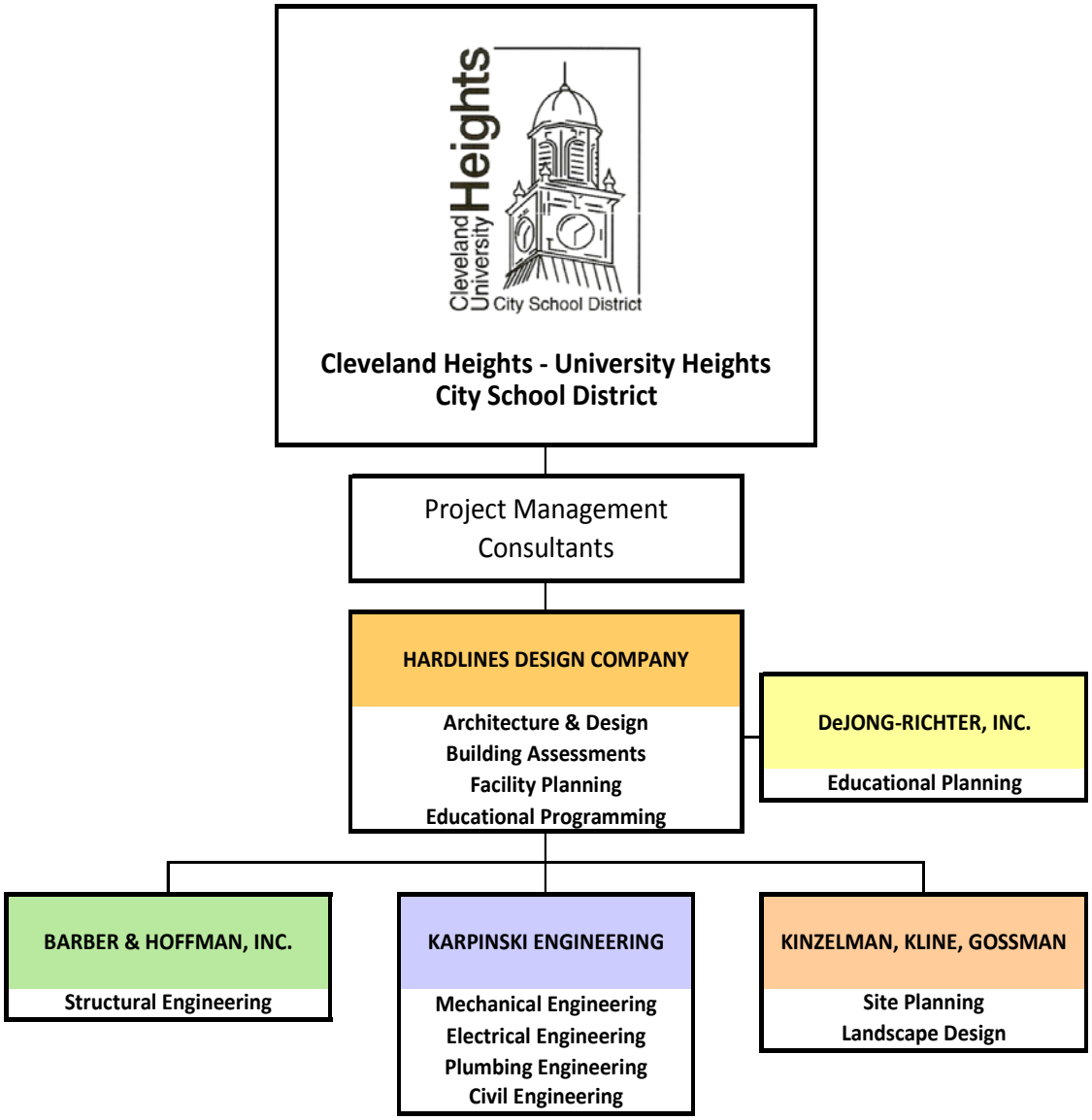
- Incorporates Innovative Design and Planning Solutions with Sustainable Design.
- Collaboration Experience for Master Plans for School Districts throughout Ohio.
- Bachelor of Science – Landscape Architecture, The Ohio State University, Columbus, Ohio.

Michael G. Pistiolas, RLA, CDT, LEED AP –Landscape Architect

Mr. Pistiolas is a registered landscape architect with LEED and CSI accreditation. He has worked on a broad range of public and private clients, providing creative and sustainable design solutions.

- Nine years of experience with Landscape Architecture and work on several Public and Private School projects.
- Master of Landscape Architecture, The Ohio State University, Columbus, Ohio.
- Bachelor of Art Environmental Studies, Denison University, Granville, Ohio.





3. LOCAL PARTICIPATION

The Engineering Consultants on our Team are all from Northeast Ohio, the Educational Planner works nationally and is based out of the Columbus, Ohio area, as does the Landscape Architect and Planner on our Team. HDC regularly services all regions of the State, and is currently on the OSFC Team working out of the Macedonia, Ohio office.

4. SUSTAINABILITY

HDC is committed to sustainable design principles on all of their new or renovated building projects. In the Master Planning HDC and their Consultants are receptive to researching both established and cutting-edge technologies to that will support greater economic vitality, environmental health, occupant satisfaction, and reduced reliance on nonrenewable resources.

Due to the new Leadership in Energy and Environmental Design (LEED) emphasis on sustainable sites, considerable attention will be paid to making the new or renovated Cleveland Heights / University Heights City School District sites sustainable. Many items will be considered including the heat island effect, the parking layout efficiency and the need to give preference to more fuel efficient vehicles, site and security lighting needs balanced against concerns for light pollution and the school's proximity to any residential neighborhoods. Bicycle rack integration, site shading, and pervious pavement may also be included in the site design recommendations portion of the Master Plan.

Water resources are becoming more and more costly and important. With this in mind water efficient measures that may be considered for the District sites include, site water recapture, limited or no irrigation, low flush toilets and electric eyes on all plumbing fixtures such that they automatically shut-off.

Energy consumption in buildings is of paramount concern on a variety of levels. To reduce energy consumption and consequently operating costs an on-site renewable energy source should be pursued to offset the building's reliance on fossil fuels. Some techniques that will be investigated include, geothermal and roof-mounted photovoltaics, and perhaps wind power. These technologies are no longer new and Karpinski Engineering and HDC Staff have experience with these systems and their components.

For the new building or the renovation designs, HDC will recommend that materials that incorporate recycled products and new materials from a regional source. HDC maintains a library of recycled materials product literature that is updated regularly as new products are researched and approved as being truly "green". We will recommend these, as well as other products that are rapidly renewable and include the approved products in the Project specifications.

To ensure indoor air quality, the new or renovated buildings for Cleveland Heights / University Heights City School District should incorporate outdoor air delivering monitoring, and an IAQ management plan. HDC's Master Plan recommendations will include low-emitting materials for all adhesives, sealants, paints and coatings, flooring, and wood agrifiber products. Working with Karpinski Engineering we will recommend control of lighting and (if possible) heating systems. The new or renovated school building design recommendations will also attempt to utilize daylighting design techniques as much as possible. These may include the use of light shelves, skylights, and borrowed light with clerestories and door transoms wherever practical. These techniques will help to get natural light to penetrate the core of the new or the renovated school designs to the greatest possible extent.

As the Master Plan is being developed there will be a LEED strategy sessions and design meetings to help determine a sustainable design vision for the District that will allow us to focus on specific economic, building performance, and environmental goals in the Master Plan. These goals will serve to prioritize the various green building design strategies that must be evaluated to determine if they are achievable within a realistic Master Plan budget. Each selected strategy will be further evaluated for economic, (initial costs and life cycle costs), environmental, and comfort benefits.

5. INNOVATIVE EDUCATIONAL PLANNING

Hardlines Design Company recently took part in an OSFC Conference that dealt almost exclusively with 21st learning environments and how to incorporate them in both a tradition school setting as well as in newly constructed school design. We can appreciate the flexibility that these spaces offer teachers for both individual and group learning experiences. We learned about acoustic issues that may be overcome if thought about early in the planning of these new educational environments, and sightline and control issues for teachers that still must responsibly supervise the students (from afar). We were also very much inspired by the successful teaching opportunities that these flexible spaces can provide and we are incorporating these 21st century learning concepts now on the Stewart Elementary School project that we are working on for Columbus City Schools!

6. PUBLIC ENGAGEMENT

Involving the community as part of facilities planning is a specialization of DeJong-Richter, Inc. Working with DeJong-Richter we will start to lay the ground work for consensus building that is the precursor for buy-in and support for the Master Plan recommendations. We will make every effort to gives constituents the opportunity to comment on and question the educational program and Master Plan when it is still under development. This will take the form of open public presentations evenings and/or weekends when people are present and available in the community.

HDC know how important the public input process is. HDC staff were actively involved in a 50M dollar district-wide levy passage in another state, and participated in the passage of the Harrison High School levy passage process with the Roth Partnership in Cincinnati, Ohio. In addition, staff and consultants have also been actively involved in getting school bond levies approved in their own hometowns. The tools that HDC can offer to help facilitate this process area as follows:

- Participatory Facility Options sessions.
- Review, data analysis and surveys if needed to gain a better understanding of the Community interests and “hot-buttons.”
- 1-2 Community dialogue sessions.
- Synthesized alternatives and options for consideration.
- Presentation boards for review and images that may be used for pamphlets and mailers.

HDC’s most recent experience with public meetings includes open public input and review for the development of the Lincoln Theatre and the Near East Side Arts and Entertainment District in Columbus and public meetings for information and support of a recently established Historic District in the Village of Gambier. HDC also had experience facilitating meetings and soliciting public input for the development of the Woodward Opera House complex, a series of buildings in downtown Mount Vernon, Ohio. The City of Heath, Ohio Town Center and Development project also required presentations to the Mayor’s Task Force and to the Heath City Council.

In addition, HDC and its staff have also been involved in presentations to garner financial support for projects. Public meetings and presentations of this type have included fundraising meeting/events for the renovation of the Lincoln Theatre, the historic Woodward Opera House, and a televised presentation to the Westerville, Ohio, City Council to raise public awareness of a historic Japanese Shrine that had been threatened with demolition.

Both HDC and DeJong-Richter, Inc. anticipate the public participation process to be lively, interactive and informative. We see it as a productive step towards the project support based that is going to be required for a positive levy outcome.

7. PARTNERSHIPS

During the Master Plan development, HDC and DeJong-Richter will conduct interactive on-site discussions with representatives from the Cleveland Heights / University Heights City School District, along with other Project Stakeholders and Key Decision Makers. These representatives should include administrators, teachers, maintenance personnel, parents and students. At these sessions our facility observations will be discussed and we will hear first-hand what concerns and thoughts the educational staff has regarding the existing facilities.

Subsequent sessions after some components of the Master Plan have begun to synthesize will occur with members of the community including civic leaders and businesses and institutions in the area that have consistently supported the schools.

8. COST AND CONSTRUCTABILITY

HDC is experienced in the planning, design, construction and facility management of municipal facilities ranging from historic landmark buildings to modern architecture. The majority of our Clients have been local, state, or federal government entities with very specific project requirements and fixed project delivery deadlines. This list includes our work with Public Schools, State Colleges and Universities statewide. HDC's professional staff is recognized problem-solvers as characterized by our professional approach to delivering the most-suitable end product to meet your needs. For Cleveland Heights / University Heights City Local School District Master Plan we have assembled a team of engineering professionals, and a landscape architect/planner and an educational planner, who all have successfully completed similar school development projects such as the one anticipated in this RFP. This entire Team will have cost estimating input.

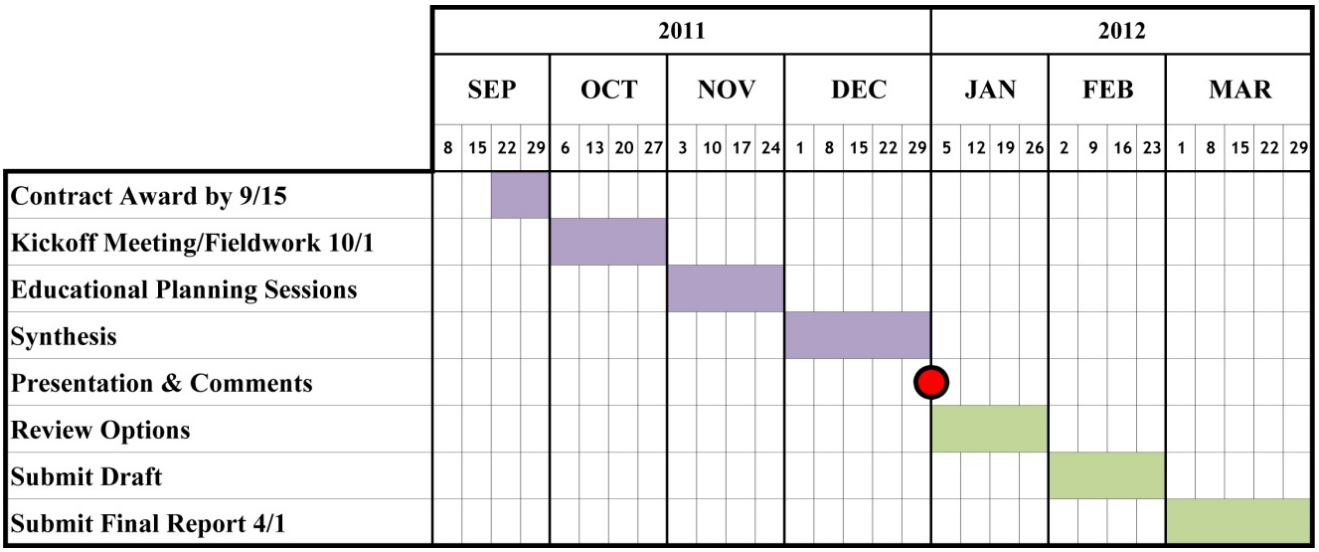
HDC has a strong reputation for cost estimating. Our most senior staff member who has both heavy construction and facility design experience does the majority of our cost estimates. Cost estimating is one of the most important steps in project design. A cost estimate establishes the base line of the project at different stages of development. HDC's utilizes two estimating methodologies to develop project cost estimates. For the Master Plan, the methodology will be Assembly and Systems Cost Estimating. This involves preparing costs for all anticipated major building components and systems. This methodology is most effective in the preliminary and schematic design phases of the project.

Examples of HDC cost estimates over the past three years and subsequent bids are as follows:

OU Glidden Hall Roof	02/2007	$242,000.00	$214,000.00
OU Hudson Hall Roof	02/2007	$363,150.00	$320,100.00
CPS Marion Franklin HS Roof	04/2007	$1,330,000.00	$1,216,000.00
CPS Clarfield ES Roof	07/2007	$299,500.00	$215,000.00
Lathrop House Phase I	04/2008	$330,000.00	$295,400.00
OSU Johnston Lab Roof	04/2009	$216,851.00	$205,355.00
OSU Ramseyer Hall Conservatory	10/2009	$69,000.00	$63,400.00
Townshend Hall	5/2010	$669,414.00	$637,048.00

Master Planning Qualifications
CLEVELAND HEIGHTS – UNIVERSITY HEIGHTS CITY SCHOOL DISTRICT

9. OWNER'S SCHEDULE



10. PAST PERFORMANCE

Hardlines Design Company has had a variety of successful projects, many of which have won awards. The Firm has an excellent track record of delivering projects that have consistently met or exceeded the Client's expectations. This is best exemplified by our previous client's testimonials expressing appreciation of the professional services, including:

- OSU Facilities Planning: "Everyone loves the space…thanks for the great job" and "the Glenn Institute space on the 4th floor of old Stillman continues to elicit praise from all who have visited there." (OSU Stillman Hall; Contact: Ruth Miller, 614-292-0983 and Alayne Parson 614-292-5256).
- City of Heath: "HDC's accomplishments exceeded the City's expectations, and the Davis-Shai House renovation has been a complete success. I highly recommend HDC to anyone interested in getting a project done (1) on time, (2) within budget, and (3) accomplished in a professional and enjoyable manner." (Davis-Shai Center; Contact: Jan Wilkin, 740-788-8942).
- Air Force Center for Environmental Excellence: "You anticipate problems and react quickly," are a "team player," and "effectively coordinated with AFCEE and the base." (Wright-Patterson Air Force EIS; Contact: Julia Cantrell, 210-536-3515).
- Naval Facilities Engineering Command: "I want to take this opportunity to congratulate you and your fine staff for the outstanding work that you have performed under your contract, and to thank all of you for the professionalism, the positive attitude, the attention to detail, and the exceptional quality … reflected in each and every delivery order." (ID/IQ A-E contract; Contact: Ron Johnson).
- City of Mount Vernon: "Hardlines is a professional organization that pays close attention to detail and is flexible in dealing with the many complications that arise on such a project. We have been impressed with and benefited from their competence in helping to solve problems in timely, cost effective, and innovative ways." (Woodward Opera House; Contact: Pat Crow, 740-392-6102).

Master Planning Qualifications
CLEVELAND HEIGHTS – UNIVERSITY HEIGHTS CITY SCHOOL DISTRICT

CONCLUSION:

HDC has assembled an outstanding team to develop the Master Plan for the Cleveland Heights / University Heights City School District. The team brings experience with both new and renovated school design and construction throughout the State of Ohio. We also bring an awareness of the region including the greater Cleveland area and the venerable institutions surrounding University Circle. The project team's strengths include:

- ***Team that has worked together:*** HDC, Karpinski Engineering, and Kinzelman Kline Gossman have worked together on several previous projects involving educational institutions. As a result, the team has an already established working relationship, mutual respect, and admiration for each other's area of expertise.

- ***Range of completed School Projects:*** HDC, Karpinski Engineering, Barber & Hoffman, and Kinzelman Kline Gossman have both public and private educational projects involving both new and renovated schools throughout the State of Ohio.

- ***Thorough Project Understanding:*** HDC staff is thoroughly trained to design and develop educational environments with a focus the specific needs of students and each individual grade level or group. We are best known for our experience designing the core facilities of a school, but also understand classroom, circulation, and administration needs.

- ***Qualified Educational Planning Consultant:*** HDC brings a well-respected national educational planning consultant, DeJong-Richter to our Team to assist in assessing the facilities and developing a 21st Century educational program that can be implemented in the Master Plan.

- ***Client-focused Team:*** Both HDC and their Consultants will approach the Master Planning with your educational and facility goals in mind – without any preconceived ideas or personal agendas knowing that your need to 'own' the final plan that will be ultimately be packaged such that it may be presented to the voters.

The Master Plan that is developed should be uniquely the District's, not one that has been used elsewhere. The Master Plan should represent the latest in educational planning and thinking, including interactive space and both fully renovated and new buildings that are operationally efficient. The District's school infrastructure should reflect the region's culture and character, and encourage a vibrant sustainable community that is consistent with the District's vision for the future.



APPENDIX A - RESUMES

HARDLINES DESIGN COMPANY

Charissa W. Durst, AIA, LEED AP BD+C

President / Principal-in-Charge

Project Responsibility

Architect, President, Principal-in-Charge

Education

Master of Architecture, 1990, The Ohio State University

B.S., Architecture 1988, University of Maryland

Work History

Years with HDC: 21

Prior Experience: 4

Registration

Registered Architect, Ohio, 1996

National Council of Architectural Registration Boards (NCARB), 2003

Leadership in Energy & Environmental Design (LEED, 2002)

CRM Qualifications

Historic Architect

Architectural Historian

Professional Affiliations

American Institute of Architects

Society of American Military Engineers

Ohio Governor's Residence Advisory Commission

U.S. Green Building Council

Columbus Landmarks Association Board

German Village Commissioner

Relevant Project Experience

Ms. Durst, President of Hardlines Design Company, established the firm in 1990. She has a total of 25 years of professional experience in the fields of architectural history and historic architecture. Her project experience ranges from historic inventory/evaluation to the restoration of historic buildings. She has broad experience working on a variety of building types including educational, municipal, residential, and mixed-use projects.

Selected Projects

- *Stewart ElementarySchool, Columbus, OH.* Design for the complete rehabilitation of the 1874 Stewart Traditional Alternative Elementary School, the oldest in the Columbus City School system. The LEED Silver project consists of the complete rehabilitation of the existing school to meet OSFC standards, repair of damages from a 2010 fire, and the construction of a new 16,500 SF addition. The school will have a capacity for 350 students and the enlarged site will contain playing fields, play areas, separate bus and parent drop-off areas, and a consolidated main entry.
- *Crestview Middle School, Columbus, OH.* Design for the complete renovation of a 100,000-square-foot middle school for Columbus City Schools. Field measured, researched, drew, and developed the overall scheme and architectural design for this renovation with SEM Architects, as a Joint Venture. Project to date has been extremely well received by CPS, the School Administration and the interested neighborhood constituency.
- *Avondale Elementary School, Columbus, OH.* Directed the exterior renovation of a three-story, 33,896-square-foot Columbus City School's elementary school. Coordinated all aspects of the renovation including design development, construction documents, HAZMAT abatement, and construction administration.
- *Marion-Franklin High School, Columbus, OH.* Directed the exterior renovation of a 100,000-square-foot high school for Columbus City Schools. Developed the overall scheme and architectural design of this renovation. Worked with the client to ensure that the solution was biddable, buildable, and maintainable.
- *Renovation of the Lincoln Theatre, Columbus, OH.* Project Architect for the addition to and renovation of a circa 1928 African-American theatre into a modern performing arts center. Project consisted of developing a master plan and the implementation of a $10.8 million project in 2006-2009. Work included restoration of the main house, insertion of a new balcony, and renovation of the third floor for the Columbus Jazz Academy. New additions to the west and south house patron and performer amenities. Project received a 2009 Ohio Historic Preservation Office award.
- *Infrastructure Condition Assessment, Air Force Materiel Command.* Project Architect for the building assessments of various historic and modern facilities on air force bases nationwide. Researched and documented building conditions using digital photographs, construction drawings, work order requests, and interviews with building managers. Work also included development of software program to assist maintenance personnel in the building audit process.

HARDLINES DESIGN COMPANY

Laura G. Piersall, AIA, LEED AP BD+C

Project Manager / Programmer

Project Responsibility

Architect,
Project Manager /
Programmer

Education

Master of Architecture, 1984, Washington University

BFA, Bachelor of Fine Arts, Theatre Design 1978, The University of Connecticut

Work History

Years with HDC: 7

Prior Experience: 20

Registration

Registered Architect, Connecticut, 1988

Leadership in Energy & Environmental Design (LEED), 2004

Professional Affiliations

American Institute of Architects

The League of Historic American Theatres

U.S. Green Building Council

**Project Completed while with another Firm.*

Relevant Project Experience

Ms. Piersall has a total of 27 years of professional experience in the field of architecture. Ms. Piersall has designed and developed projects for Cities and Counties in Ohio and on the East Coast. Most recent work includes the renovation and creation of new performing arts facilities, educational, historic and municipal work. Ms. Piersall has been responsible for design, documentation, coordination, construction administration, project closeout and building occupancy.

Selected Projects

- *Stewart Elementary School, Columbus, OH.* Design for the complete rehabilitation of the 1874 Stewart Traditional Alternative Elementary School, the oldest in the Columbus City School system. The LEED Silver project consists of the complete rehabilitation of the existing school to meet OSFC standards, repair of damages from a 2010 fire, and the construction of a new 16,500 SF addition. The school will have a capacity for 350 students and the enlarged site will contain playing fields, play areas, separate bus and parent drop-off areas, and a consolidated main entry.
- *Crestview Middle School, Columbus, OH*. Project Architect on $8.6 million historic building renovation to transform early 20th century school to meet current OSFC standards. Work included new HVAC, electric, plumbing, and fire protection systems along with new finishes, ADA accessibility, and entry sequence. Site work included; parking, access, and hard/soft play areas.
- *American School for the Deaf Renovation and Master Plan,* West Hartford, CT.* Plans for renovation and conversion of the original 1920's Campus School Building into an Administrative, Classroom and Lecture Hall facility. Complete Building Assessment and Master Plan for the remainder of the Campus, including proposed new uses for existing buildings based on the new educational master plan and program.
- *Glastonbury High School Renovation and Addition,* Glastonbury, CT.* Complete renovation of the existing High School building and a two-story addition that includes new Life Skills Labs with an early Childhood Development Lab on the first floor and new second floor Classroom space. As part of the renovation, a new main front entrance was developed and underutilized Vocational space within the school was converted into new State-of-the-Art Computer Labs.
- *Center Elementary School,* East Hampton, CT.* Complete renovation/ reconstruction of an existing 3-story turn-of-the-century masonry load bearing school with a 2-story 1960's addition. A new entry/organizational sequence was established to better facilitate safe bus drop-off off for primary school children and parents. School is located in a busy downtown area.
- *Freetown/Lakeville Regionalization Study,* Freetown/Lakeville, MA.* Population demographics, growth analysis and projections that led to the eventual regionalization of the schools in the two towns of Freetown and Lakeville, MA. This consolidation resulted in more efficient facility utilization; administration and maintenance of the schools and the opportunity to expand school associated amenities and town recreational opportunities.
- *South Windsor High School,* South Windsor, CT.* Complete renovation of an existing 1960's era High School with a substantial 2-story addition. Renovation included the development of a new entry area and a new state-of-the-Art Media Center for the building. School is located in a suburban area.

HARDLINES DESIGN COMPANY

William G. Faciane, CSI, CDT, AEI
Building Assessor / Estimator

Project Responsibility

Construction Specialist, Building Assessor, Energy Management, Estimating

Education

2000-Present – Coursework to complete B.S. in Structural Engineering, The Ohio State University

1983 – Certificate in Commercial Building HVAC

1977 – Diploma in Heavy Construction and Residential Construction

1974-1977 - Coursework for B.S. in Architectural Engineering, Virginia Polytechnic Institute

1973 - U.S. Navy Seabee Construction "A" School, Gulfport, Mississippi.

Work History

Years with HDC: 13

Prior Experience: 24

Professional Affiliations

Construction Specifications Institute

Architectural Engineering Institute

Society of American Military Engineers

Relevant Project Experience

Mr. Faciane is a Facilities Assessor and Estimator with 37 years of experience in the construction industry as a heavy commercial contractor, an owner's representative, and as a project administrator. He has prepared drawings, specifications, cost estimates, performed engineering design, and has done document coordination for a number of different project types. As Senior Facilities Planner with the City of Hampton, VA, Mr. Faciane's work included design and construction of both new and fully renovated facilities.

Selected Projects

- *Stewart Elementary School, Columbus, OH.* Design for the complete rehabilitation of the 1874 Stewart Traditional Alternative Elementary School, the oldest in the Columbus City School system. The LEED Silver project consists of the complete rehabilitation of the existing school to meet OSFC standards, repair of damages from a 2010 fire, and the construction of a new 16,500 SF addition. The school will have a capacity for 350 students and the enlarged site will contain playing fields, play areas, separate bus and parent drop-off areas, and a consolidated main entry.
- *Clarfield Elementary School Roof, Columbus, OH.* Project to renovate portion of roof on historic school built in the 1920s with additions from the 1930s-1960s. Work included assessment of existing roof and recommendations for modification of scope of work to fit current assessment.
- *Marion Franklin High School Roof, Columbus, OH.* Project to renovate a sprawling 100,000 SF multi-level built up roof for Columbus City Schools. Work includes masonry repairs of associated parapets and connecting walls.
- *Highland Elementary School, Columbus, OH.* Project for Columbus City Schools to replace portion of roof on historic 1890s masonry school. Work included detailed assessment of roof and related masonry wall conditions, preparation of three-dimensional details, and construction administration.
- *Oyler Pre-K-12 School, Cincinnati, OH.* HDC was hired by the Roth Partnership in Cincinnati to do a complete exterior envelope assessment, estimate, and renovation per the OSFC Standards to this historic neighborhood school designed by Samuel Hannaford in 1931. Work included terracotta tile repair and replacement, exterior stone and brick masonry repointing, and the incorporation of LEED Certified methods and techniques.
- *Westwood K-8 School, Cincinnati, OH.* HDC was hired by the Roth Partnership in Cincinnati to do a complete exterior envelope assessment, estimate, and renovation per the OSFC Standards to this National Register Listed school. This school was also provided with a substantial new gymnasium addition. Masonry repair work incorporated LEED Certified methods and techniques. Consulting services also included presentations to neighborhood design review boards.
- *Avondale Elementary School, Columbus, OH.* Directed the exterior renovation of a three-story, 33,896-square-foot Columbus City School's elementary school. Coordinated all aspects of the renovation including design development, construction documents, HAZMAT abatement, and construction administration.
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HARDLINES DESIGN COMPANY

Vivian C. Majtenyi, AAIA
Designer

Project Responsibility

Designer

Education

Master of Architecture, 1998, The University of Virginia, Charlottesville

Bachelor of Fine Arts, 1995, Cum Laude, The University of Georgia, Athens

Work History

Years with HDC: 10

Prior Experience: 2

Professional Affiliations

Associate Member of the American Institute of Architects

Relevant Project Experience

In addition to architectural experience, Ms. Majtenyi also has experience in graphic design and computer programming. She brings to the firm her ability to create 2D and 3D computer models and an extensive background in fine art for renderings and presentations. Ms. Majtenyi is proficient in AutoCAD Microstation, and Revit, as well as Sketchup, Adobe PageMaker and Photoshop. Her experience includes measuring and preparing record drawings of existing buildings, renovation design and documentation, product research, and preparation of design details.

Selected Projects

- *Stewart Elementary School, Columbus, OH.* Design for the complete rehabilitation of the 1874 Stewart Traditional Alternative Elementary School, the oldest in the Columbus City School system. The LEED Silver project consists of the complete rehabilitation of the existing school to meet OSFC standards, repair of damages from a 2010 fire, and the construction of a new 16,500 SF addition. The school will have a capacity for 350 students and the enlarged site will contain playing fields, play areas, separate bus and parent drop-off areas, and a consolidated main entry
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- *Woodward Opera House, Mount Vernon, OH.* $14.5 million renovation of a 1850s National Register listed, mixed-use building that includes the renovation of one of the oldest theatres in the United States. Multi-use program includes first floor retail and restaurants, leased offices, and the two-story theatre. Work includes restoration of the historic theatre building, adaptive reuse of the adjacent facility, and design of a new addition to house theatre support functions, including dressing and restroom facilities.
- *Renovation of the Lincoln Theatre, Columbus, OH.* Project Architect for the addition to and renovation of a circa 1928 African-American theatre into a modern performing arts center. Project consisted of developing a master plan and the implementation of a $10.8 million project in 2006-2009. Work included restoration of the main house, insertion of a new balcony, and renovation of the third floor for the Columbus Jazz Academy. New additions to the west and south house patron and performer amenities. Project received a 2009 Ohio Historic Preservation Office award.

HARDLINES DESIGN COMPANY

Feliciano K. Rahardjo, LEED AP BD+C

Architectural Design and Assessments

Project Responsibility

Design and Assessments

Education

B.S. Architecture, 2001
The Ohio State University

Work History

Years with HDC: 8

Prior Experience: 2

Registration

Leadership in Energy & Environmental Design (LEED), 2004

Relevant Project Experience

Mr. Rahardjo will support the project with his assessment work of particularly the building exterior envelopes. He is proficient in a variety of computer modeling and rendering applications, and he is experienced in the development of architectural details.

Selected Projects

- *Stewart Elementary School, Columbus, OH.* Design for the complete rehabilitation of the 1874 Stewart Traditional Alternative Elementary School, the oldest in the Columbus City School system. The LEED Silver project consists of the complete rehabilitation of the existing school to meet OSFC standards, repair of damages from a 2010 fire, and the construction of a new 16,500 SF addition. The school will have a capacity for 350 students and the enlarged site will contain playing fields, play areas, separate bus and parent drop-off areas, and a consolidated main entry.
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HARDLINES DESIGN COMPANY

Christine Trebellas, AICP
Designer/Detailer

Project Responsibility

Design and Production

Education

Master of Architecture, 2005, Georgia Institute of Technology, Atlanta, Georgia

Master of Architectural History, 1995, University of Virginia, Charlottesville, Virginia

Certificate in Historic Preservation, 1995, University of Virginia, Charlottesville, Virginia

B.A., *cum laude*, Art History, 1991, Tulane University, New Orleans, Louisiana

Work History

Years with HDC: 2

Prior Experience: 4

Registration

Meets Secretary of the Interior's Professional Qualification Standards for Architectural History, History, and Historic Architecture

Professional Awards

Honorable Mention, Buchanan Award, Vernacular Architecture Forum, 1999

Special Achievement Award, National Park Service, 1998 (twice) and 2000

Professional Affiliations

Member, Orange Township (Ohio) Board of Zoning Appeal

American Planning Association

Society of Architectural Historians

Vernacular Architectural Forum

Relevant Project Experience

In addition to architectural experience, Ms. Trebellas also has seven years experience in historic preservation and planning. She has a solid background in researching and documenting historic properties and a thorough understanding of federal preservation regulations and guidelines. More recently, she has taught architectural history classes at the college level and managed architectural design projects. She is proficient in hand-drafting as well as AutoCAD, Adobe Photoshop and Illustrator, and ArcGIS.

Selected Experience

- *Stewart Elementary School, Columbus, OH.* Design for the complete rehabilitation of the 1874 Stewart Traditional Alternative Elementary School, the oldest in the Columbus City School system. The LEED Silver project consists of the complete rehabilitation of the existing school to meet OSFC standards, repair of damages from a 2010 fire, and the construction of a new 16,500 SF addition. The school will have a capacity for 350 students and the enlarged site will contain playing fields, play areas, separate bus and parent drop-off areas, and a consolidated main entry.

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- *OSU Derby Hall Third Floor, Columbus, OH.* Architectural Designer to renovate two areas for the School of Communication. The project combined four rooms into a conference room and renovated a former TV studio into a computer classroom. Project included coordination with OSU's furniture provider and phasing construction around occupancy. Project issues included upgrading the electrical and technology systems, rerouting the existing ductwork, maintaining means of egress throughout construction, and reviewing ADA codes.

- *OSU Campbell Hall HVAC Upgrade, Columbus, OH.* Architectural Designer on a $1.1 million project to upgrade the HVAC system for the west addition. Architectural work included renovating the basement lab spaces for swing space, demolition and repair of walls and ceilings to accommodate HVAC work, and new soffits and shafts. Renovation work included laboratory casework to match the existing and new wall, ceiling, and floor finishes.

TRACY RICHTER

Chief Executive Officer

EDUCATION

Purdue University - B.A., History

ACHIEVEMENTS & AFFILIATIONS

Member, Council of Educational Facility Planners International (CEFPI)
Member, Florida Educational Facility Planners Association

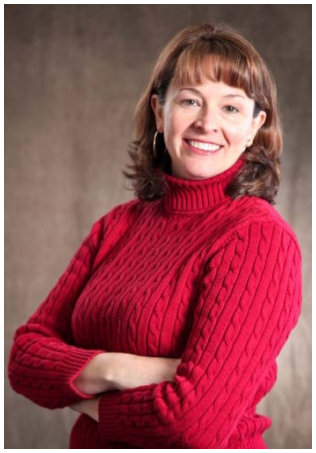
SUMMARY

With nearly two decades of teaching and educational experience, Tracy has coordinated and directed facility planning and educational specifications efforts for school districts of all sizes throughout the United States. He knows firsthand that the educational planning process must be driven by a motivated team of knowledgeable problem solvers who demonstrate expertise, guidance and direction that come from working many years in the industry.

Tracy and the DeJONG-RICHTER team have helped more than 1,000 school districts develop outstanding learning environments through a systematic process that combines key data analysis with community participation and feedback. The resulting facility plans are not only strategic, but also include long-term goals to build a strong vision and future for the communities involved.

NOTABLE EDUCATIONAL PLANNING

- **Beverly Hills Unified School District, CA:** Strategic Planning, Educational Specifications, Long-Range Facility Master Plan
- **Broward County Public Schools, FL:** Facility Master Plan
- **Campbell County Schools, VA:** Long-Range Facility Master Plan
- **Cincinnati Public School District, OH:** EducationSpecifications Middle and Price Hill K-8 Facility, Roberts Paideia K-8 Facility
- **Cincinnati Public Schools, OH:** Facility Master Plan and Educational Specifications
- **District of Columbia Public Schools:** Facility Master Plan, Educational Specifications & Surplus Properties and Facilities Report
- **Duval County Public Schools, FL:** Facility Master Plan, Educational Specifications, Exceptional Student Education Master Plan, Administrative Organization and Spatial Analysis
- **Duval County Public Schools, FL:** District-wide K-5, K-8, 9-12, North Shore K-8, AAA High School, Darnell Cookman 6-12 Magnet School
- **Kokomo Center Township Consolidated Schools, IN:** High School and Career Technical Utilization Analysis
- **Lapeer Community Schools, MI:** Boundary Study and Community Engagement
- **Leavenworth Unified School District #453, KS:** Facility Master Plan
- **Montgomery Public Schools, AL:** Long-Range Facilities Planning
- **Palm Beach County Public Schools, FL:** Ancillary Space Master Planning
- **Philadelphia School District, PA:** Long-Range Facility Master Plan



CAROLYN STASKIEWICZ, REFP

President

EDUCATION

The Ohio State University - B.S., Management

ACHIEVEMENTS & AFFILIATIONS

Recognized Educational Facility Planner (REFP)
Member, Council of Educational Facility Planners International (CEFPI)
Distinguished Service Award, 2009, CEFPI
President, 2009 CEFPI: Ohio Chapter

RECENT PUBLICATIONS

"Data Delivery: Facility, Program Indexes Help Determine Project Needs for Nevada District," School Construction News, July/August 2009
"Construction Cost Analysis Helps Wake County Schools Determine Best Practices," Case Study, March 2007
"The State of School Buildings," American School Board Journal, October 2005
"Arkansas Statewide Facility Assessment," School Business Affairs, June 2005

SUMMARY

For nearly 15 years, Carolyn has been involved in a multitude of educational facility planning efforts across the country. From statewide assessments to educational facility specifications and comprehensive master plans, she is adept at determining short and long-term needs of any school system.

As President of DeJONG-RICHTER, Carolyn is responsible for the firm's daily operations and marketing endeavors. Carolyn is a focused problem solver who applies best practices to balance innovation and cost for her clients. One of her main objectives is to ensure that clients have the tools necessary for developing superior learning environments.

NOTABLE EDUCATIONAL PLANNING

- **Anchorage School District, AK:** Educational Adequacy Assessment
- **Arkansas Department of Education:** Statewide Facility Assessments, Enrollment Projections
- **Berea City School District, OH:** Facility Master Plan
- **Bridgeport Public Schools, CT**: Enrollment Projections, Boundary Adjustments, Facility Master Plan Update
- **Clark County School District, NV:** Educational Adequacy Assessments, Comprehensive Facility Master Plan, Miley Achievement Center Educational Specifications
- **Fairfax County Public Schools, VA:** Capacity Study
- **Ft. Worth Independent School District, TX:** Educational Framework Facilitation
- **Jefferson County School District, CO:** Facility Master Plan
- **Massachusetts School Building Authority:** Needs Survey Report
- **Memphis City and Shelby County Schools, TN:** Enrollment Projections and Build-Out Scenario, Comprehensive Facility Master Plan
- **Monongalia County Schools, WV:** Comprehensive Educational Facility Plan
- **Ohio School Facilities Commissions, OH:** Enrollment Projections [including enrollment projection training]
- **Seattle Public Schools, WA:** Housing Analysis, Enrollment Projections [including enrollment projection training]

LEE H.L. HWANG, GISP

GIS Director

EDUCATION

The Ohio State University - B.S., Geography

ACHIEVEMENTS & AFFILIATIONS

Certified Geographic Information Systems Professional (GISP)
Member, Council of Educational Facility Planners International (CEFPI)

RECENT PUBLICATIONS

"Mapping It Out," American School and University, December, 2006

SUMMARY

As the Geographic Information Systems (GIS) Director at DeJONG-RICHTER, Lee's primary role is to provide the knowledge and expertise needed to process and analyze large volumes and varying types of spatial data. Lee's other responsibilities include producing report-quality maps, presenting GIS data to school and state administrators, and exploring new methods and techniques to manage school facility and student data more efficiently.

Prior to working in the educational planning field, Lee spent three years working with the U.S. Geological Survey as a GIS Specialist. While there, he learned national benchmarks for mapping and developed the vital skills required in the field of GIS.

NOTABLE EDUCATIONAL PLANNING

- **Alexandria City Public Schools, VA:** Build-Out Study
- **Anchorage School District, AK:** Educational Adequacy Assessment
- **Bridgeport Public Schools, CT:** Geocoding, Training and Development, Boundary Development
- **Centerville City Schools, OH:** GIS Project
- **Cleveland Heights-University Heights SD, OH:** GIS Updates, Training and Development, Elementary Reorganization
- **Duval County Public Schools, FL:** Facility Master Plan
- **Fort Worth Independent School District, TX:** Facility Master Plan Update, Facility Master Plan
- **Hamilton Southeastern Schools, IN:** Facility Master Plan, Build-Out Scenario
- **Metropolitan SD of Lawrence Township, IN:** Elementary Plan, GIS Project
- **Montgomery County Public Schools, VA:** Build-Out Scenario
- **New Orleans Public Schools, LA:** Facility Master Plan
- **Ohio School Facilities Commission:** Demographics Study
- **Olentangy Local School District, OH:** Demographics, Build-Out Scenario, Redistricting Study
- **Orange County Public Schools, FL:** Facility Master Plan
- **Penn Manor School District, PA:** Build-Out Scenario
- **Pittsburgh Public Schools, PA:** Facility Master Plan
- **South-Western City Schools, OH:** GIS Project
- **State College Area School District, PA:** Facility Master Plan
- **State of Arkansas:** Adequacy Assessment
- **Williamsburg-James City County Public Schools, VA:** Elementary and High School Redistricting Study

james g. macmillan, pe, leed bd+c

Principal-in-Charge

Lead Mechanical Engineer

credentials

Bachelor of Mechanical Engineering

Cleveland State University, 1989

professional registration

Ohio Professional Engineer #57827, 1994

LEED Accredited Professional

Certified Geothermal Designer by IGSHPA, 2002

Under Jim MacMillan's direction and leadership, the required staff resources are dedicated to each project, guaranteeing the architect and the client that the MEP services will be performed on time and in conjunction with the architect's timetable. To this end, he works in close collaboration with the architect and client, dedicating the necessary engineering resources to the team and ultimately ensuring a successful project.

Most recently, Jim obtained his LEED accreditation, which qualifies him by the US Green Building Council to oversee the design of environmentally friendly building projects. He was the first Engineer in the State of Ohio to become a LEED Accredited Design Professionals.

related project experience

East Liverpool School District
East Liverpool, Ohio

Switzerland of Ohio School District
Beallsville, Ohio

Hudson City Schools
Hudson, Ohio

Newton Falls City Schools
Newton Falls, Ohio

Youngstown East High School
Youngstown, Ohio

LaBrae High School
Trumbull County, Ohio

Plain Local Schools
Canton, Ohio

Cleveland State University, Wellness & Recreation Center
LEED Silver
Cleveland, Ohio

Cleveland Metroparks, Big Met Golf Course Clubhouse
LEED Certified
Fairview Park, Ohio

Cleveland State University, New Administration Center
LEED Certified
Cleveland, Ohio

Cleveland State University, New Student Union
LEED Silver
Cleveland, Ohio

Cleveland State University, College of Education Building
LEED Gold
Cleveland, Ohio

karpinski
ENGINEERING

gregory a. blatnik, pe

Lead Electrical Engineer

credentials

Bachelor of Electrical Engineering

Johns Hopkins University, 1985

professional registration

Ohio Professional Engineer #51786, 1986

Greg Blatnik's experience includes all phases of electrical engineering--design, cost estimating, writing of specifications and detailed reports, as well as evaluation of building systems. Areas of responsibility have involved design and supervision for public use buildings. Specific projects include electrical distribution systems for K-12 schools and educational facilities. Greg specializes in both renovation and new construction projects.

related project experience

East Liverpool School District
East Liverpool, Ohio

Switzerland of Ohio School District
Beallsville, Ohio

Hudson City Schools
Hudson, Ohio

Newton Falls City Schools
Newton Falls, Ohio

Youngstown East High School
Youngstown, Ohio

Alliance Rockhill Elementary School
Alliance, Ohio

East Liverpool School District
East Liverpool, Ohio

Geneva High School
Geneva, Ohio

Beaumont School
Cleveland Heights, Ohio

LaBrae High School
Trumbull County, Ohio

Plain Local Schools
Canton, Ohio

Youngstown City Schools
Youngstown, Ohio

karpinski
ENGINEERING

tom gilliland, rcdd

Lead Technology Engineer

credentials

Associates Degree Electrical Technology

United Electronics Institure, 1972

Associates Degree Business Management

Franklin University, 1985

professional registration

BICSI Registered Communication Distrubution Designer (RCDD), 2003

Tom Gilliland possesses a solid foundation of technology systems knowledge and helps to assure successful completion of mission critical projects. His responsibilities encompass all phases of technology systems engineering including design, cost estimating, writing of specifications and detailed reports, evaluation of building systems, and management of installation. Specific projects include data network systems, voice over IP phone systems, voice/data/video processing and distribution, security, audio/visual, as well as other technology systems and support infrastructure for sophisticated laboratory teaching spaces and renovation projects.

related project experience

East Liverpool School District
East Liverpool, Ohio

Switzerland of Ohio School District
Beallsville, Ohio

Ravenna High School
Ravenna, Ohio

Orriville City School District
Orrville, Ohio

Fuchs Mizrachi School
Beachwood, Ohio

University of Akron
Akron, Ohio

Lorain County Community College
Elyria, Ohio

Oberlin College
Oberlin, Ohio

karpinski
ENGINEERING

BARBER & HOFFMAN, INC.
Consulting Engineers

PROFILE

Robert E. Jordan, PE

PRESIDENT/TREASURER

JOINED THE FIRM 1975

Cleveland Ohio

RESPONSIBILITIES

Mr. Jordan currently serves as the President/Treasurer of Barber & Hoffman Inc. managing in-house operations. In addition to these duties he serves as Principal in Charge and Project Manager of commercial, institutional, and restoration projects for architects, building owners and managers, contractors and consulting engineering firms. Through his 30 years of experience he has worked on various types of projects of different magnitude and developed an expertise in conceptual studies, analysis and design of major projects, design of parking structures, and investigation and restoration of structural deterioration.

Mr. Jordan has been associated with Barber & Hoffman Inc. since 1975. In his years with the firm, he has developed from structural designer to Project Manager. Following these years of training, he assumed the position of Office Manager in 1987 and was named an Associate with the firm. As Office Manager he supervised the daily activities of the staff. In 1991 he became a Principal of the firm and in 2003 was appointed President/Treasurer.

PROJECT EXPERIENCE

RECENT PROJECTS FOR CLEVELAND HEIGHTS-UNIVERSITY HEIGHTS SCHOOL DISTRICT:

Education Building - Load check for new rooftop units
Taylor Elementary School - Taylor NOC
Oxford Elementary - New stairs
High School - New elevator
Fairfax Elementary - New interior canopy
Gearity Elementary Renovation
High School - Mechanical unit load check

ST. JOHN MEDICAL CENTER - CONDITION ASSESSMENT AND MASTER PLANNING

Westlake, Ohio ▪ Performed visual observations of the building's exterior façade and structural framing where accessible to note areas of building distress and provided recommendations for repair for obtaining cost estimating. Reviewed structural drawings to determine allowable superimposed design loads on all buildings and performed limited analysis of structure to determine expansion possibilities of the building to aid in the master planning.

ST. JOHN MEDICAL CENTER - MASTER PLAN

Westlake, Ohio ▪ Barber & Hoffman provided structural engineering services in aiding our architectural client in developing a master plan. Our services included review of existing structural drawings to determine load capacities of existing floor framing to determine appropriate use of existing buildings. We also reviewed existing building structures for the capability of vertical or horizontal expansions to accommodate new additions and provided structural narratives of the proposed work of the master plan.

EDUCATION:

- Pennsylvania State University, 1975
  Bachelor of Architectural Engineering

REGISTRATION: P.E. 1992

- Ohio
- Pennsylvania
- Michigan
- West Virginia
- New York

PROFESSIONAL AFFILIATIONS:

- 2010 Recipient of the Cleveland Engineering Society Hall of Fame Award
- American Council of Engineering Companies, Ohio and National
- Cleveland Consulting Engineers Association
- Structural Engineers Association of Ohio
- Cleveland Engineering Society Construction Conference Chairman 1989-1990; Construction Division Chairman 1991-1992
- Concrete Reinforcing Steel Institute
- Builders Exchange of Cleveland Craftsmanship Award Committee 1987-1997; Board of Directors 2004-2010
- International Concrete Repair Institute
- American Institute of Steel Construction

ADDITIONAL PROJECT EXPERIENCE

BUILDING ASSESSMENTS

Performed structural inspections and assessments of the floors, roof framing, and all other load-bearing elements. Inspected exterior wall systems for distress. Developed report indicating our findings and developed opinion of probable cost for repairs:

University Hospitals Health System Medical Office Building
University Hospitals Health System Georgian Building
Audubon School - Original 1921 Building
Fawcett Stadium North and South Grandstands
Cleveland Clinic Foundation Fairhill Parking Garage
Cleveland Clinic Foundation W. O. Walker Building
Cleveland Clinic Foundation Corporate Ninety Office Building

COMMUNITY HEALTH PARTNERS - MASTER PLAN

Lorain, Ohio ▪ Performed visual observations of the building's exterior façade and structural framing where accessible to note areas of building distress and provided recommendations for repair for obtaining cost estimating. Reviewed structural drawings to determine allowable superimposed design loads on all buildings and performed limited analysis of structure to determine expansion possibilities of the building to aid in the master planning.

CLEVELAND METROPOLITAN SCHOOL DISTRICT:

Cleveland, Ohio ▪ Mary B. Martin K-8 Facility: Renovations to an existing 70,800-square-foot elementary school. Improvements to the load-bearing masonry wall structure included the installation of an elevator, removing load-bearing masonry walls, and supporting five new mechanical roof top units.

Cleveland, Ohio ▪ Mary Bethune K-8 Facility: Renovations to an existing 70,800-square-foot elementary school along with a 13,700-square-foot addition. Both the existing school and the addition are constructed with load-bearing masonry, steel joist framing, composite concrete and metal deck floor construction, and shallow spread footings. Renovations to the existing structure included floor infill framing, removal of load-bearing masonry walls, and support for five new rooftop units.

Cleveland, Ohio ▪ Daniel Morgan K-8 Facility: A new 67,500-square-foot elementary school and gymnasium. The new facility utilized masonry walls for load-bearing elements and for lateral resistance. The floors were primarily framed using steel joists with steel beams used in limited areas. The gym roof was framed using steel trusses and beams while the remainder of the school was framed with light-gage steel trusses.

CLEVELAND CLINIC - NEW PATHOLOGY AND LABORATORY MEDICINE INSTITUTE (REFERENCE LAB)

Cleveland, Ohio ▪ A new four-story, 130,000-square-foot steel structure supported on caisson foundations. The building will primarily be used for laboratories and some office space. The laboratory areas require high floor to floor height (20' range) and openness for the laboratory functions and the vibration-sensitive equipment.

MEDICAL:
- Cleveland Clinic - Main Campus
- University Hospitals Health System
- Bucyrus Community Hospital
- Summa Health System
- Marymount Hospital
- Hillcrest Hospital

HIGHER EDUCATION:
- Bowling Green State University
- Muskingum College
- Pennsylvania State University
- Kent State University
- Case Western Reserve University
- Baldwin Wallace College
- University of Akron
- Hiram College

K - 12:
- Cleveland Metropolitan Schools
- Hathaway Brown
- Avonworth School District
- Noble County Schools
- Laurel School

OFFICE BUILDINGS:
- FedEx Ground-Corporate Hqtrs.
- Chestnut Commons MOB
- Pennsylvania Turnpike Commission

RELIGIOUS:
- St. Ladislas Church
- Gesu Parish

CIVIC:
- Mayfield Country Club
- New Albany Performing Arts Center
- Clemens Center
- Fawcett Stadium

Mary Bethune K-8 Facility
Cleveland, Ohio

BARBER & HOFFMAN, INC.
Consulting Engineers

PROFILE

Halim M. Saab, PE, LEED AP

VICE PRESIDENT

JOINED THE FIRM 1990

Cleveland
Ohio

RESPONSIBILITIES

Mr. Saab serves as Principal in Charge and Project Manager on commercial, institutional, and healthcare projects for public and private sector clients. He oversees a project from its initial conception to its completion. He performs conceptual studies, analyses, wind design, seismic design, foundation design, and structural investigations of existing structures. He has extensive experience in the design of steel and concrete structures. He has broad knowledge of structural modeling utilizing several structural engineering programs and he is proficient in computer-aided drafting software (CAD) and has received Revit training. He is the managing partner of our Columbus office.

CAREER DEVELOPMENT:

Mr. Saab is the firm's Information Technology Manager. He oversees the implementation of all engineering and drafting (CAD and Revit) software and standards. In addition, he manages the firm's internal network and web site. He joined the firm in 1990 and became a principal in 2004.

PROJECT EXPERIENCE

ST. JOHN MEDICAL CENTER - CONDITION ASSESSMENT AND MASTER PLANNING

Westlake, Ohio ▪ Performed visual observations of the building's exterior façade and structural framing where accessible to note areas of building distress and provided recommendations for repair for obtaining cost estimating. Reviewed structural drawings to determine allowable superimposed design loads on all buildings and performed limited analysis of structure to determine expansion possibilities of the building to aid in the master planning.

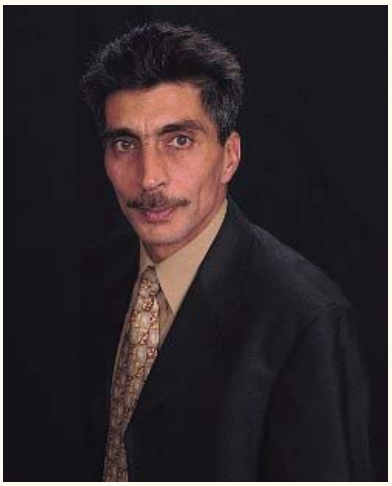
ST. JOHN MEDICAL CENTER - MASTER PLAN

Westlake, Ohio ▪ Barber & Hoffman provided structural engineering services in aiding our architectural client in developing a master plan. Our services included review of existing structural drawings to determine load capacities of existing floor framing to determine appropriate use of existing buildings. We also reviewed existing building structures for the capability of vertical or horizontal expansions to accommodate new additions and provided structural narratives of the proposed work of the master plan.

CLEVELAND METROPOLITAN SCHOOL DISTRICT:

Cleveland, Ohio ▪ Anton Grdina PK-8 School: A new 73,700-square-foot elementary school and gymnasium. Exterior load-bearing masonry walls support the second floor and roof which are framed with steel joists. Steel beams were also used in limited areas to transfer loads from masonry walls that occurred on the second floor. The entire facility was supported by a foundation system of shallow spread footings.

Cleveland, Ohio ▪ Willson Middle School, Cleveland, OH: A new K-8 two-story, 77,330-sq.-ft. school building opened in 2009 –the structural framing consisted of steel joists and beams for floor and roof construction along with interior steel columns, interior and exterior bearing masonry walls.



EDUCATION:

- Cleveland State University, 1986
  Bachelor of Science in Civil Engineering
- Cleveland State University, 1988
  Master of Science in Civil Engineering

REGISTRATION: P.E. 1992

- Ohio

PROFESSIONAL AFFILIATIONS:

- American Concrete Institute - Cleveland Chapter
- International Code Council
- Prestressed Concrete Institute
- City of Cleveland, Board of Building Standards
- Structural Engineers Association of Ohio, Past President
- American Institute of Steel Construction

ADDITIONAL PROJECT EXPERIENCE

DAYTON CITY SCHOOL DISTRICT

Dayton, Ohio ▪ New Ruskin Pre K-8 School: A new two-story, 73,461-sq.-ft. school building opened in 2008 –utilizing steel joists and beams for floor and roof construction along with interior steel columns, interior and exterior bearing masonry walls.

Dayton, Ohio ▪ Fairview PK-8 School: A new 74,000-square-foot elementary school and gymnasium. Exterior load-bearing masonry walls support the second floor and roof which are framed with steel joists. Steel beams were also used in limited areas to transfer loads from masonry walls that occurred on the second floor. The entire facility was supported by a foundation system of shallow spread footings.

KENT STATE UNIVERSITY SALEM CAMPUS – ADDITION AND EXPANSION

Kent, Ohio ▪ We performed seismic feasibility studies, designed new second floor construction using slab on deck, steel joists, and structural steel beams and columns. Project scope included renovating 16,625 square feet of existing gymnasium and converting it into classrooms and lab facilities. The first phase included selective demolition of none-structural elements and constructing a new 9,715-square-foot second floor inside the existing gymnasium. The second phase consisted of renovating 6,750 square feet of interior space. Foundation work included new footings and underpinning some of the existing perimeter building footings.

YOUNGSTOWN STATE UNIVERSITY – KILCAWLEY CENTER RENOVATION

Youngstown, Ohio ▪ 121,287 sq. ft. of renovation work and 28,190 sq. ft. of new space. Work scope included renovation of the existing two-story student center in addition to a new single-story addition to accommodate needs for food service, conference facilities, retail operations, offices and student-oriented spaces to better help Kilcawley Center and YSU serve its student body and staff. The original building was constructed and completed in 1967. Kilcawley Center received several major expansions and renovations up to 1983. The current project includes demolition of a portion of the 1974 building and a significant demolition of the 1979 building to allow for the construction of new north and south entrances, office space, food services, student spaces, and a conference hall.

CLEVELAND INSTITUTE OF ART - MCCULLOUGH BUILDING RENOVATION

Cleveland, Ohio ▪ Originally constructed in 1913 for the Ford Motor Company, the building was vacated in 1932 and was acquired by the Cleveland Institute of Art in 1982. The CIA McCullough Building, as it is known today, is listed on the National Register of Historic Places, under Criteria C and is described as a four-story reinforced concrete structure with a facade of red brick and white terra cotta.

CLEVELAND MUSEUM OF ART - EXPANSION AND RENOVATION

Cleveland, Ohio ▪ The program called for renovating and altering several existing buildings and the addition of new buildings for offices, galleries and utilities. Much of the existing renovated space will be unified with the new space to improve circulation and increase gallery space. The current design calls for renovating the existing historic original 1916 and Breuer Building, the addition of a new gallery building, and a central utility plant.

MEDICAL:
- Cleveland Clinic
- Fairview Hospital
- MetroHealth Medical Center
- Ashtabula County Medical Center
- Fisher-Titus Medical Center
- Southwest General Health Center

HIGHER EDUCATION:
- Cuyahoga Community College
- Cleveland State University
- John Carroll University
- Oberlin College
- Akron University
- Kent State University

K - 12:
- Cleveland Metropolitan Schools
- Dayton City Schools
- Twinsburg City Schools

OFFICE BUILDINGS:
- Lorain County Justice Center

HOUSING:
- Homewood Skilled Nursing
- South Franklin Retirement Community
- Westlake Skilled Nursing

CIVIC:
- Great Lakes Science Center
- Cleveland Botanical Garden
- Cleveland Museum of Art
- City of Beachwood Aquatic Center

PARKING GARAGE:
- Cleveland State University
- Cuyahoga County Coroner's Office
- Great Lakes Science Center

Ruskin Pre K-8 School
Dayton, Ohio

Brian P. Kinzelman, ASLA AICP LEED AP
Principal

Education	The Ohio State University | Bachelor of Science Landscape Architecture, *1977*
Registration	Registered Professional Landscape Architect | Ohio, *1980,* Kentucky, *2004,* West Virginia, *2007,* Tennessee, *2009,* Pennsylvania, *2009,* Indiana *2010* Council of Landscape Architectural Registration Boards Certificate, *1989* American Institute of Certified Planners | Certified Planner, *2006* LEED Accredited Professional | United States Green Building Council, *2009*
Professional Affiliations & Community Participation	American Society of Landscape Architects, *Member* American Planning Association, *Member* American Institute of Certified Planners, *Member* Society for College and University Planning, *Member* Congress for the New Urbanism, *Member* Neighborhood Design Center, Columbus, Ohio, *Member, Board of Directors* International Council of Shopping Centers, *Past Member* Brewery District Commission, *Past Member* The Ohio State University, Austin E. Knowlton School of Architecture Board of Governors, *Past Member* Northland Alliance, Inc., Board of Trustees, *Past Member*
Significant Projects	Village Academy Schools Land Planning | Powell, OH Clinton Elementary School | Columbus, OH Olde Orchard Elementary School | Columbus, OH Starling Pre K-8 School | Columbus, OH Beavercreek High School and School District | Beavercreek, OH Union Local Schools | Belmont, OH Vinton County Local Schools | New Albany, OH New Albany Elementary School | New Albany, OH Northridge High School | Johnstown, OH Columbus State Community College New Bookstore | Columbus, OH Delaware Campus Master Plan Columbus State Community College | Delaware, OH Miami University Exterior Space Master Plan | Oxford, OH The Ohio State University Landscape Master Plan | Columbus, OH The Ohio State University Sisson Hall | Columbus, OH The Ohio State University Medical Center Urban Design Framework Plan | Columbus, OH Richard M. Ross Heart Hospital and Medical Center Quadrangle, The Ohio State University | Columbus, OH Central State University Master Plan | Wilberforce, OH
Awards & Recognition	OCASLA Honor Award, Fort Hayes Development Plan | *2010* AIA Cincinnati COTE Sustainability Award, Grange Insurance Audubon Center | *2008* River Cities Preservation Award, Adaptive Re-Use, West 7th Street Building, Covington, KY | *2008* OCASLA Merit Award, Northland Mall Redevelopment | *2004* OCASLA Merit Award, Downtown Richmond Comprehensive Plan | *2004* OCASLA Merit Award, Downtown Findlay Strategic Action Plan | *2003* OCASLA Merit Award, Harbor Town Master Plan Update | *2002*

OCASLA Merit Award, Country Club of the North | *2000*
OPRA Outstanding Award, Oxford Uptown Parks and Streetscape | *2000*
OCASLA Honor Award, Riverfront Development Handbook | *2001*
OPRA Meritorious Award, M.L. Red Trabue Park | *2001*
OCASLA Merit Award, Market Avenue Streetscape | *2001*
OCASLA Honor Award, Morse Road Design Study | *2001*
OCASLA Merit Award, Scioto Riverfront Amphitheater | *2001*
OPRA Meritorious Award, Scioto Riverfront Amphitheater | *2001*
OCASLA Honor Award, The Ohio State University Landscape Master Plan | *2001*
OCASLA Merit Award, Scioto Peninsula Riverfront | *2001*
OCASLA Merit Award, Alum Creek Amphitheater | *2002*
OCASLA Merit Award, Oxford Uptown Parks | *2002*
Columbus Chapter AIA Honor Award, Proctor Conference Center | *1999*
OPRA Indianapolis Chapter AIA Honor Award, Garfield Park | *1998*
OCASLA Merit Award, Eddie Rickenbacker/Tuskegee Airmen Memorial | *1998*
OCASLA Special Recognition Award, Cuyahoga Regional Landfill Expansion | *1995*
OCASLA Merit Award, The Medallion Club | *1995*
OPRA Meritorious Award, Robinette Park Redevelopment Plan | *1996*
City of Columbus Competition Honor Award, Kidspeak Fountain | *1989*

Visiting Lecturer | Faculty | Conferences

American Planning Association, National Conference | *2005, 2006*
Ball State University: Department of Landscape Architecture | Muncie, Indiana, *1992*
The Ohio State University:
Austin E. Knowlton School of Architecture | Columbus, OH, *1995-present*
Department of Agronomy | Columbus, OH, *1986-89*

Sarah J. Richardson, ASLA LEED AP
Associate, Landscape Architect

Education	The Ohio State University | Bachelor of Science in Landscape Architecture, *1984*
Registration	Registered Professional Landscape Architect | Ohio, *1987* LEED Accredited Professional, *2006*
Professional Affiliations & Community Participation	American Society of Landscape Architects, *Member* Society for College and University Planning, *Member* Fort Hayes, Columbus, Ohio, *Advisory Committee Member*
Significant Projects	Alum Crest-Clearbrook 6-12 School | Columbus, OH Canaan Middle School | Plain City, OH Cedarwood Alternative Elementary School | Columbus, OH Circleville City Schools | Circleville, OH Clinton Elementary School | Columbus, OH Columbus Public Schools Playground Manual | Columbus, OH Columbus School for Girls | Columbus, OH Crestview Middle School | Columbus, OH Fort Hayes Development Plan | Columbus, OH Fort Hayes Site Improvements Package | Columbus, OH Fort Hayes Parcel "B" | Columbus, OH Fort Hayes Master Zoning Plan | Columbus, OH Georgian Heights Alternative Elementary School | Columbus, OH Olde Orchard Elementary School | Columbus, OH Plain City Elementary School | Plain City, OH Starling Pre K-8 | Columbus, OH Village Academy Land Planning | Powell, OH Village Academy Preschool | Powell, OH Worthington Kilbourne High School | Worthington, OH
Awards & Recognition	Fort Hayes Development Plan | Ohio Chapter ASLA Honor Award, *2010* Christ Hospital | Ohio Chapter ASLA Merit Award, *2005* Woodwinds Health Campus | Columbus Chapter AIA Honor Award, *2003* Beijing Hotel | Columbus Chapter AIA Honor Award, *2003* Woodwinds Health Campus | Modern Healthcare Citation for Healthcare Facilities Design, *2001* Kidspeak Foundation | Ohio Chapter ASLA Special Recognition Award, *1993* Worthington Kilbourne High School | Ohio Chapter AIA Honor Award, *1992*

Michael G. Pistiolas, RLA CDT LEED AP
Landscape Architect

Education	Denison University | Bachelors of Art Environmental Studies, *1999* The Ohio State University | Masters of Landscape Architecture, *2002*
Registration	Registered Professional Landscape Architect | Ohio, *2008* LEED Accredited Professional | United States Green Building Council, *2008* Construction Documents Technologist | Construction Specifications Institute, *2010*
Significant Projects	Alum Crest-Clearbrook 6-12 School | Columbus, OH Canaan Middle School | Columbus, OH Cedarwood Elementary School | Columbus, OH Columbus Public Schools Playground Guidelines | Columbus, OH Olde Orchard Elementary School | Columbus, OH Plain City Elementary School | Plain City, OH Starling PreK-8 | Columbus, OH Adena Medical Center Northeast Expansion | Chillicothe, OH Adena PACCAR Medical Education Center | Chillicothe, OH Altair Parks | Westerville, OH Appalachian Behavioral Healthcare Site Security Improvements | Athens, OH Avery Road Retail | Columbus, OH Bollinger Tower Renovation | Columbus, OH Birmingham Triangle Urban Design Plan | Birmingham, MI Center for Biblical and Theological Studies, Cedarville University | Cedarville, OH City of Crown Point Circulation and Parking Plan | Crown Point, IN Diley Ridge Medical Center ED and MOB | Canal Winchester, OH Eastpointe Business Park | Zanesville, OH Engine House #10 | Columbus, OH Hamilton Road Corridor Study | Columbus, OH Kinnear Road Improvements | Columbus, OH Linden Area Traffic Management Plan Phase 2 | Columbus, OH Lucas Oil Stadium | Indianapolis, IN McKinley Avenue Police Complex Renovation | Columbus, OH Morris Hospital North Expansion | Morris, IL Mid-Ohio Foodbank | Grove City, OH The Ohio State University, Evans Lab Feasibility Study | Columbus, OH The Ohio State University, Laneview School and 1991 Kenny Road Demolition | Columbus, OH The Ohio State University, Longaberger Alumni House Feasibility Study | Columbus, OH Ohio University Accessibility Improvements | Athens, OH Ohio University Southern Campus Entry Improvements | Ironton, OH Old Police Station Renovation | Columbus, OH Saint Joseph Jessamine | Nicholasville, KY Scioto Audubon Metro Park Master Plan | Columbus, OH Sills Park | Columbus, OH Stone Creek Towne Center Greenways | Colerain, OH Systems Maintenance Operations Center Fairwood Avenue Facility Improvements | Columbus, OH Third Street Streetscape Traffic Corridor Study | Columbus, OH Tuscarawas Regional Technology Park Master Plan | New Philadelphia, OH

APPENDIX B - PROJECT EXPERIENCE

HARDLINES DESIGN COMPANY

PROJECT EXPERIENCE

Stewart Elementary School
Columbus, Ohio

Project Highlights

- Historic Renovation & Addition experience for a significant structure
- Programming, Planning and Design per OSFC standards
- Administrative, Public, and Historic District Commisions presentations
- Development of all as-built Documents
- Production of Presentation Materials, and Submittal Documents
- Intensive Sitework Investigations
- Thorough Code Review and ADA analysis work
- Coordination with Columbus City Schools and the Construction Manager
- LEED Silver for Schools Certification

Project Data

Cost/Size: $8,200,000/43,750 s.f.

Role: Lead Architect

Reference:
Mr. Steve Volpe
(614) 365-8790

Owner: Columbus City Schools

Completion: 2013

HDC is the lead Architectural Firm for the complete rehabilitation of Stewart Traditional Alternative Elementary School, the oldest school in the Columbus City School system. The original building was constructed in 1874, with a large addition in 1894. A major renovation with minor additions took place in 1925, with a subsequent major interior renovation in 1952. Columbus City Schools (CCS) purchased land on the other side of Pearl Street, which increased the total project site from less than 1 acre to approximately 3 acres. The project consists of the complete rehabilitation of the existing school to meet OSFC standards, repair of damages from a 2010 fire, and the construction of a new 16,500 SF addition. The project site is part of both the German Village and Brewery District Historic Commissions. CCS's desire to consolidate the property required planning meetings with both historic commissions as well as the city's Zoning department and City Council.

Programming consisted of working with CCS to determine the best use for the existing school spaces as well as the spaces to be housed in the addition. The school will have a capacity for 350 students and the enlarged site will contain playing fields, play areas, separate bus and parent drop-off areas, and a consolidated main entry.

Stewart Traditional / Alternative Elementary School

HARDLINES DESIGN COMPANY

PROJECT EXPERIENCE

Westwood School (K–8)
Cincinnati, Ohio

Project Highlights

- Ohio Public Schools Experience per OSFC standards
- Exterior Envelope Experience
- Structural Analysis and Roof Assessment including a visual inspection and roof system core sampling
- Preparation of Written Recommendations and Cost Estimates
- Construction Documents, Bidding and Construction Administration
- Expertise with Exterior Masonry, Stone Building Techniques, and Terracotta Tile Detailing
- Remediation of Moisture Penetration Problems causing both exterior and interior wall damage
- LEED Certified methods incorporating green design techniques

Project Data

Cost/Size: $8 million for total renovation

Role: Masonry Exterior Envelope and Historic Building Specialists

Associated Firms: Roth Partnership, Inc. (Prime)

Reference:
Mike Burson
513-363-0777

Owner: Cincinnati Public Schools

Completion: 2010

Hardlines Design Company (HDC) was commissioned by Roth Partnership to rehabilitate the entire exterior enclosure of the Westwood School. The exterior rehabilitation work is part of a full building renovation with a substantial new addition. Westwood School is a stately, century-old school that is listed on the National Register of Historic Places. The building has a symmetrical, Neo-Classical Revival facade, comprised of brick masonry, with stone and terracotta elements. Projecting cornices, weave-patterned brick belt courses, stone and brick sill courses, and stone balustrade parapets provide architectural character. Other exterior assemblies include operable wood windows, solid bronze doors, and low-slope roofing.

HDC conducted condition assessment surveys to identify structural deficiencies and to locate moisture intrusions. From these on-site explorations, HDC created a list of recommendations along with budgetary cost estimates. Design work included a roof replacement with reflective membrane, repair and reinforcement of the solid brick masonry walls, repair and stabilization of the brick and terracotta parapets, reinforcement and reglazing of the terracotta elements, and repointing the stone foundation. When complete, the school will have its original historical character restored and the school will continue to service many future generations. Work was done in accordance with OSFC standards. HDC participated in Design Review Committee meetings, and presentations as part of the overall school design approval process.

Westwood School

HARDLINES DESIGN COMPANY

PROJECT EXPERIENCE

Oyler School (Pre-K–12)
Cincinnati, Ohio

Project Highlights

- Ohio Public Schools Experience per OSFC standards
- Exterior Envelope Experience
- Structural Analysis and Roof Assessment including a visual inspection and roof system core samplings
- Written Recommendations and Cost Estimates
- Construction Documents, Bidding and Construction Administration
- Expertise with Exterior Masonry, Stone Building Techniques, and Terracotta Tile Detailing
- Remediation of Moisture Penetration Problems associated with exterior and interior wall damage
- LEED Certified Methods incorporating green design techniques

Project Data

Cost/Size: $8 million for total renovation

Role: Masonry Exterior Envelope and Historic Building Specialists

Associated Firms: Roth Partnership, Inc. (Prime)

Reference:
Mike Burson
513-363-0777

Owner: Cincinnati Public Schools

Completion: 2010

Hardlines Design Company (HDC) was commissioned by Roth Partnership to rehabilitate the entire exterior enclosure of the historic Oyler School, originally designed by Samuel Hannaford. This exterior restoration is part of a total building renovation that includes new additions and roof level courtyards. A multi-story, Pre-K through 12 school, its design combines the elements of many styles, mainly Art Deco with Italian, Spanish, English Tudor, and Venetian Byzantine Gothic Revival. The exterior contains decorative architectural glazed terracotta details that highlight the brick facades. In addition, sculpted figures of children and a variety of gargoyles accentuate the facades. Other exterior wall assemblies include operable wood and wrought-iron windows and doors, and low-slope, single-ply roofing.

HDC conducted condition assessments with budgetary cost estimates of the entire building envelope, identified deficiencies, and provided corrective actions. HDC developed design documents for the restoration of the architectural terracotta, the exterior brick facades, and the replacement of the roofing systems; to restore the building to a renewed historic appearance. Work was done in accordance with OSFC standards.

Oyler School

HARDLINES DESIGN COMPANY

PROJECT EXPERIENCE

Crestview Middle School
Columbus, Ohio

Project Highlights

- Historic Renovation experience for a significant structure
- Programming, Planning and Design per OSFC standards
- Administrative, Public, and Neighborhood presentations
- Development of all as-built Documents
- Production of all Presentation Materials, and Submittal Documents
- Intensive Sitework Investigations
- Thorough Code Review and ADA analysis work
- Coordination with Columbus City Schools and the Construction Manager

Project Data

Cost/Size: $9,417,437.00/87,963 s.f.

Role: Architect

Associated Firms: Joint Venture with SEM

Reference:

Ms. Barbara Koebel

(614) 365-8790

Owner: Columbus City Schools

Completion: 2005

HDC provided A-E Services in a Joint Venture with SEM Architects for the complete renovation of the Historic Crestview Elementary School. Work was completed through design to transform this early 20th century school per current OSFC standards. HDC completed all as-built documentation and facility assessment work for the project and was an integral part of the design work that was well received by the school administration, teachers, and parent participants.

Planning was done to facilitate the introduction of all new HVAC, electric, plumbing and fire protection systems, as well as new finishes. Sitework focused on developing a new single identifiable main entrance to the building, new parking, playing fields, and parent drop-off areas. ADA access issues were a primary concern both the site development work and the interior planning.

The school is now scheduled to become the new site for the Indianola Alternative School program.

Crestview Middle School

HARDLINES DESIGN COMPANY

PROJECT EXPERIENCE

*American School for the Deaf**
West Hartford, Connecticut

Project Highlights

- Comprehensive Campus Planning Study
- Historic Survey and Documentation
- Conceptual Design for the Main Building
- Circulation, Parking, Main Entrance Sequence and Landscape Design Review
- Implementation Schedule
- Code and ADA Issues addressed

Project Data

Cost/Size: $60,000.00 (study)/9 Buildings total

Role: Architect*

** Completed by a key staff member with another firm*

Owner: American School for the Deaf (ASD)

Completion: 1996 (Master Plan and Facility Study)

This project was a Planning Study for the assessment of all (ASD) campus buildings and a programming evaluation for the entire K-12 school campus focusing on academic needs and facilities. The Master Plan included a conceptual implementation design and schedule for the historic, circa 1920s main building. Significant fieldwork and research was done in preparation for the main building design work estimated at 12 million dollars.

The focus of this project was to see how the campus buildings could be best utilized to meet the growing population's educational requirements. In addition, infrastructure needs were reviewed for the entire campus and a plan was developed to incorporate new fiber optic lines to all academic buildings. The study examined the historic original building to see how it could be best be preserved and reused as the main administrative and academic building integrating new technology throughout. This required extensive code review and historic survey work.

Included in the planning document was an analysis of existing circulation paths and patterns, both vehicular and pedestrian as well as a complete ADA analysis of the campus.

American School for the Deaf

OVERVIEW OF FIRM

At **DeJONG-RICHTER**, we believe an educational planning firm should offer its clients much more than consulting and technical services. We provide our clients with the expertise, guidance, direction, and best practices that come only from seasoned problem solvers who have been in the business for over 30 years.

We have helped more than 1,000 school districts position and empower their communities to develop superior learning environments, while saving our client substantial time and money. Key areas of our expertise include facility master planning, educational specifications, enrollment projections, and geographic information systems. We continuously strive to balance innovation and cost while providing high quality and efficient services.

Mission Statement

The mission of **DeJONG-RICHTER** is to position and empower communities and organizations throughout the world to develop quality learning environments for the future.

QUALIFICATIONS

Qualifications of the **DeJONG-RICHTER** team include:

- 3 Recognized Educational Facility Professionals by the Council of Educational Facility Planners International
- National recognition as leaders in educational facility planning and for effective consensus-building activities
- Backgrounds in education, technology, facilitation, management, and city planning
- Professional training through Harvard University, University of Wisconsin, and numerous presentations at state, national, and international organizations
- Conducting and coordinating projects in 43 states and the District of Columbia, Africa, Canada, Kuwait, and Honduras
- Involvement in developing prototypical elementary, middle, and high school facilities
- Over 260 Educational Specifications for elementary, middle, high, and other types of schools
- Over 200 Facility Plans for urban, suburban, and rural communities
- Over 1,500 Enrollment Projections
- 1 national and 2 statewide facility assessments
- Development of planning standards for state and local districts

Professional Services

DeJONG-RICHTER positions school districts, states, and nations to develop quality learning environments through a systematic process that maximizes the use of data and community participation. Our goal is to empower organizations with the tools necessary to make smart, practical decisions for students.

- Our educational facility plans are strategic in nature. Each plan specifies long-term goals that positively impact the quality of education in a school district and build a better vision and future for the community.
- We pioneered the use of Geographic Information Systems (GIS) in facility planning, and school districts nationwide are realizing the enormous benefits. GIS allows us to capture, store, update analyze and display all forms of geographic and demographic data.
- Our Team believes that school planning must be an inclusive process. It is a powerful opportunity for a school community to come together to determine how educational facilities can be an impetus for change and improvement for all parties. Development of a district's facility plan requires the collaboration of educators, administrators, policy makers, community members and facility experts.

The professional services offered by **DeJONG-RICHTER** include:

- Capacity Studies / Analysis
- Community Engagement and Consensus
- Comprehensive Master Planning
- Design Standards and Guidelines
- Educational Adequacy Assessments
- Educational Specifications
- Enrollment Projections
- Geographic Information Systems
- Potential Land Development Analysis
- Redistricting and Boundary Adjustments

TEAM MEMBERS

As an organization, we respect each other and appreciate one another for our contributions. Without our talented and devoted employees **DeJONG-RICHTER** would not exist as it currently is.

DeJONG-RICHTER team members and associates include the following:

Tracy Richter	Chief Executive Officer
William DeJong, Ph.D., REFP	Senior Advisor
Carolyn Staskiewicz, REFP	President
Lee Hwang, GISP	GIS Director
Kerrianne Smith, REFP	Senior Planner
Scott Leopold	GIS Analyst
Jillian Ralls	Project Coordinator
Ashley Anatra	Project Coordinator
Mary DeVillers	Accounting Director
Angela Althoff	Marketing Coordinator

Our affiliate, **DeJONG-HEALY**, specializes in demographics and is owned and operated by Tracy Healy, REFP. A former vice president at DeJONG, Tracy has been with our organization since its inception. An excellent example of her work is the development of enrollment projects for more than 450 Ohio districts in partnership with the Ohio School Facilities Commission.

DeJONG-HEALY team members include the following:

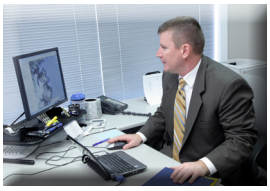
Tracy Healy, REFP	President
Ann Hoffsis	Project Director

Facility Master Planning

Our Facility Master Plans are strategic in nature. Whether by district or statewide, each one creates long-term goals and objectives that impact the quality of education in a school district and build a better vision and future for the community. A Facility Master Plan identifies which buildings to keep, modernize, replace, reconfigure, or repurpose, and in what order (with associated cost) this will be accomplished. The primary purpose of the Facility Master Plan is to create attractive school environments that are conducive to efficient and effective learning, teaching, and community activities. The steps involved include:

Steering Committee Formation

A Steering Committee guides the development and implementation of the Facility Planning Process. The Committee should represent a broad cross-section of school and non-school members of the community. The Committee meets approximately six times throughout the process.

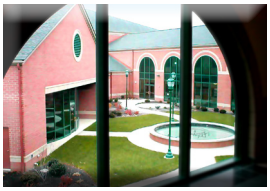


Database Development

DeJONG-RICHTER develops, gathers, reviews, and summarizes data: ten-year enrollment projections, district demographic profiles, Geographic Information Systems, capacity analysis of facilities, facility adequacy evaluations, a district program profile, and financial and budgetary information.

Community Dialogue #1

The primary focus of the first dialogue is to help establish the educational framework for developing options. This dialogue addresses school size, grade configuration, neighborhood schools and magnet schools as well as other educational and community issues that are important in developing options and the final plan. Participants will complete an individual and group questionnaire and discuss them in small groups.



Facility Options

Based on the data collected and the input from the community dialogue, GIS, facility condition, and other factors, facility options are developed. These options identify which buildings to keep, modernize, replace or repurpose.

Community Dialogue #2

A second community dialogue is held to share the facility options with the community. During this session, participants rate/rank each of the options and, once again in a small group format, develop a collective response as to the preferred option. At the conclusion of the dialogue, results are posted on wall charts and all questionnaires are collected and tallied.

Final Report

The Facility Master Plan will outline an action for each of the District's facilities. The recommendations will be presented in tiers showing which facilities should be addressed first and then the subsequent order of remaining facilities. Approximate cost of renovations, additions, replacements, and new construction will be indicated for each facility.

PREVIOUS FACILITY MASTER PLANNING CLIENTS

International

- Kuwait
- Honduras

Urban and Large Districts

- Akron Public Schools, OH
- Anchorage School District, AK
- Austin Independent School District, TX
- Baltimore County Public Schools, MD
- Bridgeport Public Schools, CT
- Broward County Public Schools, FL
- Charleston County Schools, SC
- Cincinnati Public Schools, OH
- Clark County School District, NV
- Cleveland Municipal School District, OH
- Columbus Public Schools, OH
- Dayton Public Schools, OH
- Detroit Public Schools, MI
- District of Columbia Public Schools, Washington, D.C.
- Duval County Public Schools, FL
- Fargo Public Schools, ND
- Grand Rapids Public Schools, MI
- JeffersonCo Public Schools, CO
- Juneau School District, AK
- Long Beach Unified School District, CA
- Memphis City Schools, TN
- Montgomery Public Schools, AL
- Orange County Public Schools, FL
- Philadelphia School District, PA
- Providence Public Schools, RI
- Richmond Public Schools, VA
- Scottsdale Unified School District, AZ
- Shelby County Schools, TN
- Toledo Public Schools, OH
- Virginia Beach City Public Schools, VA
- Waterbury Public Schools, CT

Suburban Districts

- Berea City School District, OH
- Beverly Hills Unified School District, CA
- Birmingham Public Schools, MI
- Cleveland Heights-University Heights City School District, OH
- School District of Fairfield County, SC
- Gulfport School District, MS
- Halifax County Public Schools, VA
- Hilliard City Schools, OH
- Hudson City Schools, OH
- School District of Janesville, WI
- Kettering City Schools, OH
- Ladue School District, MO
- Manassas City Public Schools, VA
- Manhasset Public Schools, NY
- Martin County Public Schools, FL
- Monongalia County Schools, WV
- Moon Area School District, PA
- Northville Public Schools, MI
- Orange Local Schools, OH
- Palm Beach County Public Schools, FL
- Pulaski County Schools, VA
- Rochester Community Schools, MI
- Rockwood School District, MO
- Rocky River City Schools, OH
- Romeo Community Schools, MI
- Southampton Union Free School District, NY
- Southwest Roanoke County Schools, VA
- South-Western City Schools, OH
- State College Area School District, PA
- Sycamore Community Schools, OH
- Twinsburg City Schools, OH
- West Geauga Local Schools, OH
- Whitmore Lake Public Schools, MI

Rural Districts

- Campbell County Schools, VA
- Grant-Hardy County Schools, WV
- Marshall County Schools, WV
- Ohio County Schools, WV
- Randolph County Schools, WV
- Sampson County Schools, NC
- Sweetwater County School District #2, WY
- Switzerland of Ohio Local School District, OH
- Tri-Valley Local Schools, OH
- Uinta #1 School District, WY

DeJONG RICHTER

VIRGINIA BEACH CITY SCHOOLS
Comprehensive Long Rang Facilities Master Plan

Project Location:
Virginia Beach, VA

Owner:
Virginia Beach City Schools
2512 George Mason Drive
Virginia Beach, VA 23456

Contact:
Mr. John Kalocay
Phone: (757) 263-1090
Email: jkalocay@vbschools.com

Services Provided:
Eductional Planning

Project Contract:
$328,488

Project Size:
Students: 69,972 grades K-12
Elementary Schools - 56
Middle Schools - 14
High Schools - 11

Dates of Project:
February 2007 - April 2010

DeJONG-RICHTER Project Team:
Tracy Richter, CEO
Dr. William DeJong, Senior Advisor
Kerrianne Smith, Senior Planner

HBA Architects Team:
Mike Ross, Vice President

Comprehensive Long Range Facilities Master Plan:
The Virginia Beach City Public Schools Long Range Facility Master Plan outlines a series of options for improving and rebuilding the Division's elementary, middle, and high schools. This master plan is data driven and provides an opportunity for broad based community input. The Facility Planning Process included the following milestones:

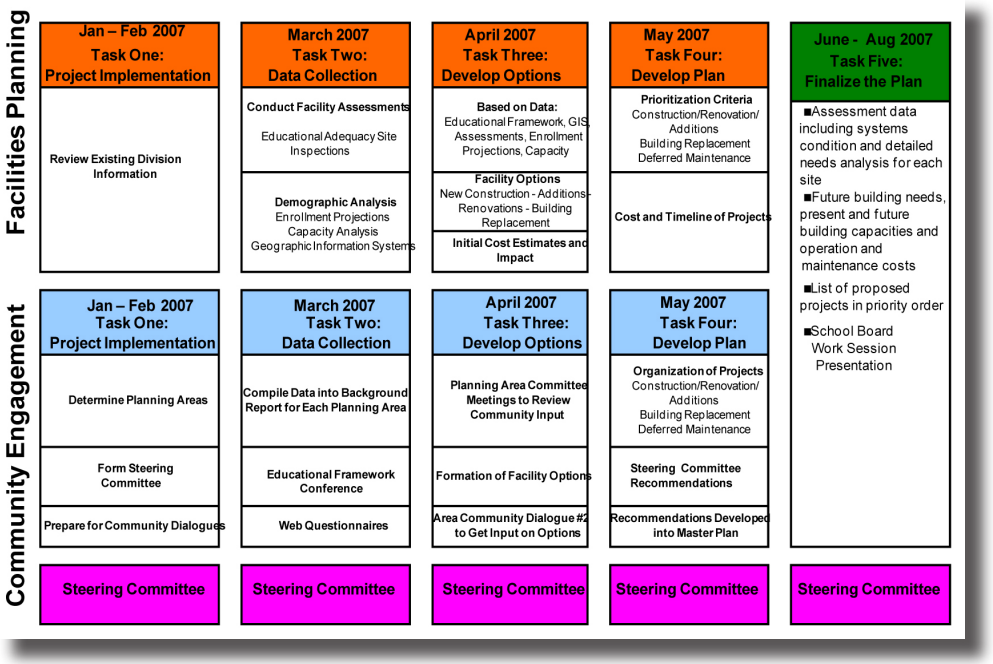
- Facility Assessments & Appraisals
  - 36 facilities were assessed by system i.e. roofing, heating, ventilation, cooling, windows, flooring, plumbing, etc.
  - Appraisals of subjective factors such as lighting, interior environments, technology, etc were conducted in 36 facilities

- Educational Framework Conference
  - Approximately 100 community leaders, parents, students, city administrators and Division personnel attended the conference to give broad-based input on Division-wide academic and facility topics

- Options Development
  - An Options Work Session was held to aggregate the Educational Framework results and build options based on data and Division expertise

- Community Dialogue
  - Community input on facility options was collected from the four planning areas

- Recommendations
  - Data collected and developed throughout the process was used to create facility recommendations for the School Division



DeJONG RICHTER

JEFFCO PUBLIC SCHOOLS
District Wide Facilities Master Plan

Project Location:
Lakewood, CO

Owner:
JeffCo Public Schools
809 Quail St. Bldg. #4
Lakewood, CO 80215

Contact:
Cheryl K. Humann
Executive Director
of Construction Management
Phone: (303) 982-2598
Email: ckhumann@jeffco.k12.co.us

Services Provided:
District Wide Facilities Master Plan

Project Contract:
$275,630 *(DeJONG-RICHTER Only)*

Project Size:
Students: 86,000
Elementary Schools - 91
Middle Schools - 19
High Schools - 17

Dates of Project:
April 2009 - Current

Estimated Completion Date:
Early 2011

Project Team:
DeJONG-RICHTER
Magellan K-12 (now Jacobs)
Jacobs
MOA Architecture

DeJONG-RICHTER, as part of the Jacobs Team, is assisting Jeffco Public Schools in Colorado to develop a District Wide Facilities Master Plan [DWFMP] in order to support the Jeffco Strategic Plan and prepare for the next Capital Improvement Plan. Completion date is estimated to be early 2011. The purpose of the DWFMP is to provide the basis by which Jeffco will:

- Ensure facilities meet the needs of students & staff
- Ensure safe learning and working environments
- Ensure facilities are maintained

The DWFMP will provide recommendations for new school construction, school by school renovation budgets, alternative delivery strategies and/or campus consolidations.

Capital Assess Planning (CAP) was an effort performed by our team, in conjunction with the Jeffco's Facilities Planning & Design and Construction Management departments. As part of CAP, and educational adequacy and facility condition assessment of every building in the district was conducted from June-Sept. 2009. In addition, there was school and community outreach to inform and solicit input into the DWFMP process. Summary:

- Micro Level Assessment
- Educational Adequacy
- School & Community Outreach
- Implementation, Bond Planning, Long Term Capital Allocation
- Consolidation of Multiple Planning/Maintenance Tools

District Facilities by Type

School/Facility Type	Campuses	Permanent Buildings		Cottage Buildings		Transportable Buildings	
		Count	Sq Ft	Count	Sq Ft	Count	Sq Ft
Pre-K Centers	9	9	47,048	13	43,884	2	2,027
Elementary Schools	91	133	4,242,025	6	20,713	276	235,653
K-8 Schools	3	4	263,091	-	-	3	3,088
Middle Schools	19	40	2,037,237	-	-	28	28,874
High Schools	17	43	3,692,357	-	-	20	22,311
Districtwide / Option	15	80	889,954	3	10,108	39	37,293
Stadia	4	27	31,459	-	-	2	1,920
Administrative	11	23	447,842	5	12,032	7	7,375
Maintenance and Transportation	5	9	43,102	-	-	4	3,894
Total	174	360	11,694,114	27	86,737	381	392,355
					0.7%		3.2%

DeJONG RICHTER

SCHOOL DISTRICT OF PHILADELPHIA
Facilities Master Planning

Project Location:
Philadelphia, PA

Owner:
School District of Philadelphia
440 N. Broad St.
Philadelphia, PA 19130

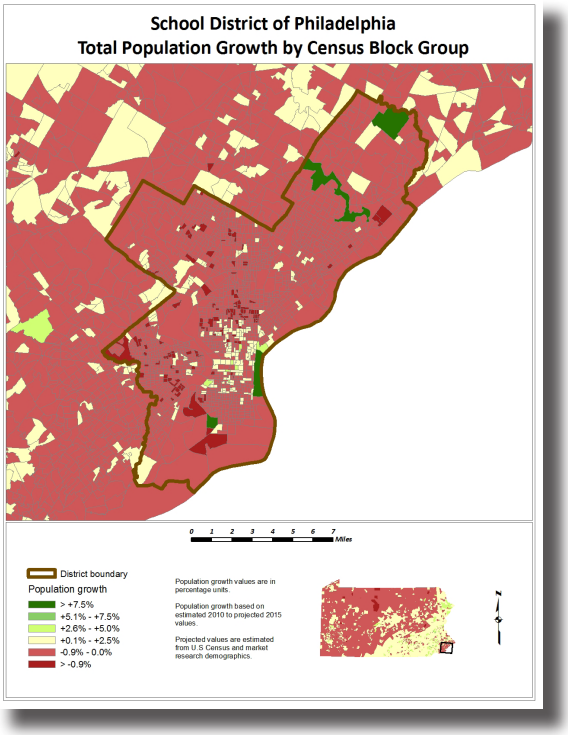
Contact:
Danielle Floyd
Asst. Director, Chief Business Office
Phone: (215) 400-5627
Email: dfloyd@philasd.org

Services Provided:
Facilities Master Planning

Project Size:
Students: 150,000
Schools: 116 +

Dates of Project:
2010 - Current

DeJONG-RICHTER Project Team:
Tracy Richter, Principal-in-Charge
Lee Hwang, GISP, GIS Director
Scott Leopold, GIS Analyst



In September 2010, DeJONG-RICHTER was contracted as a part of a larger team, to create a Facilities Master Plan for the School District of Philadelphia. The plan determined long-term goals and objectives that impact the quality of education in the school district and helped shape the vision and future for its communities.

As a part of the master planning process, DeJONG-RICHTER created a Geographic Information System [GIS] to organize data regarding schools, students, development patterns, and student attendance boundaries.

GIS was utilized in working group meetings (both District and community based), options work sessions and in development of the Final Master Plan recommendations.

An extensive data collection process included:
- Collecting data from the District, city, township, county and federal sources, including student databases, attendance boundaries, geographic layers, ortho-photography, historical housing development, street centerlines, water, and other identified factors as available
- Converting current student databases into GIS format by a process called geocoding. This process "address matched" all students in the District
- Arranging data and ensuring it was in a compatible and like coordinate system, so information could be accurately portrayed in the area
- Appending other relevant information to databases for ease of analysis in further planning stages

Enrollment for each elementary school and high school was analyzed to depict:
- Students who live and attend in boundary
- Students who live in but attend out of boundary
- Students who live out but attend in boundary

Breakdowns of students by age, neighborhood, socio-economic, ethnicity, language and gender were provided. Population and housing demographics from the US Census and local sources were analyzed to determine trends in different areas of the district. Analysis of these trends assisted the decision-making process regarding future facilities and locations of programs.

Maps were produced to illustrate:
- Current attendance boundaries
- Where students live in relation to the boundaries
- Distribution of students with identified attributes in relation to the boundaries

DeJONG-RICHTER developed and analyzed documents, including but not limited to, the following:
- Elementary School Attendance Maps
- Middle School Attendance Maps
- High School Attendance Maps
- Census Block Group Maps, identifying population characteristics and projections

DeJONG RICHTER

GRAND RAPIDS PUBLIC SCHOOLS
Facility Master Plan

Project Location:
Grand Rapids, MI

Owner:
Grand Rapids Public Schools
1331 Franklin SE
Grand Rapids, MI 49501

Contact:
Ms. Lisa Freiburger
Executive Director of
Operatins & Business Services
Phone: (616) 819-2070

Email:
FreiburgerL@grps.k12.mi.us

Services Provided:
Facility Master Plan &
Building Improvement Plan

Project Size:
Students: 20,530
Elementary Schools - 31
Middle Schools - 5
High Schools - 3

Dates of Project:
July 2007 - March 2008

DeJONG-RICHTER Project Team:
William DeJONG, Ph. D., REFP, CEO
Lee Hwang, GIS Manager
Kerrianne Smith, Planner

The Grand Rapids Public Schools engaged in a district-wide planning process to develop a Building Improvement Plan for elementary, middle, and high schools. The goal of this district-wide effort was to determine appropriate levels of school improvements that would be conducive to efficient and effective learning, teaching, and community activities. To meet this goal, school buildings would need to:

Provide appropriate, attractive spaces for education, administration, and community uses with flexibility to meet the needs of new initiatives

Be secure to meet all health and safety codes as well as comply with federal and local mandates

Implement improvements that will extend the life of the buildings for 20+ years

The Building Improvement Plan is based on:

Projected enrollment
Educational framework
Condition of facilities
Community values and input
Costing and funding

The Building Improvement Planning Process:

Creates a methodology for a practical and equitable solution to prioritize work that needs to be done

Recommends to the Board of Education the prioritization in which the schools would be built or renovated

Recognizes that the Board of Education may need to consider rezoning as schools are built or renovated and/or if enrollment shifts

Stresses that updates can be made to the Building Improvement Plan, if needed, during its implementation

Recommends that the integrity of historic school buildings be considered regardless of future use

Union Planning Area

RANK ORDER OF PROJECTS	SCHOOL	AREA	GRADES	SUGGESTED ACTION	SUGGESTED # OF STUDENTS	ESTIMATED COST [$M]
1	Harrison Park	Union	PK-5	New Building w/preservation of historical elements	535	$7.7M
1	Harrison MS	Union	6-8	New Building w/preservation of historical elements	450	$9.7M
2	Sibley	Union	PK-1	New [Adjacent to Straight]	535	$6.6M
2	Straight	Union	2-5	Moderate Renovation w/New Addition for Sibley		
3	Stocking	Union	PK-5	New building w/consideration of historical elements	535	$7.7M
4	Covell	Union	PK-5	Moderate Renovation w/Addition	365	$3.8M
5	Shawmut Hills	Union	PK-5	Moderate Renovation w/Addition	365	$2.4M
6	Westwood MS	Union	6-8	Minor Renovation	600	$4.9M
Total						**$42.8M**

about karpinski ENGINEERING

History

Since 1983, Karpinski Engineering has provided complete mechanical, electrical, technology systems, plumbing, and civil engineering services for health care, educational, governmental, commercial, and industrial facilities. Our highly qualified engineering staff combines years of professional experience, ensuring clients that their project is a success.

Services

Karpinski Engineering offers complete overall design by coordinating mechanical, electrical, fire protection, plumbing and technology systems with the responsible architectural and structural entities using a single source responsibility technique. Furthermore, clients rely on us because our principals are involved in every aspect of each project. All engineered systems are based on the very latest technology, ensuring accurate and efficient buildings that are consistent with the financial resources of the project.

In addition to traditional MEPT engineering, Karpinski Engineering also offers civil engineering, fire safety & security, certified lighting design, commissioning and LEED certification services. The availability of all of these services in-house affords more accurate coordination and a better understanding of these services when performed out-of-house. Through our LEED certification services we are dedicated to promoting sustainable design as both a viable and desirable solution. Karpinski Engineering has established a reputation as one of the leading engineering firms for the design of "green" buildings.

Staff engineering qualifications include professional certifications such as state registrations (PE) and industry specific registrations (RCDD, NICET, LC, and LEED AP), as well as specific expertise in the use of industry standard design tools.. Furthermore, KE employee participation in the standards developing organizations like ASHRAE, IES, IEEE, USGBC, to name a few, affords our clients early knowledge and understanding of the construction standards of the future. Clients also benefit from outstanding engineering capabilities, utilization of Revit MEP and Building Information Modelling (BIM) for the production of working drawings as well as from the added efficiency of a single engineering-administrative team for the entire project. The "team approach" to engineering assures prompt completion of projects and sound budget management in all areas. Karpinski Engineering continually receives high praise for the cooperative spirit in which all personnel perform.

karpinski
ENGINEERING

CLEVELAND, OH
COLUMBUS, OH
UNIONTOWN, OH
ASHVILLE, NY

about karpinski ENGINEERING

In the planning of your facility, the availability of the following outstanding services provides the ultimate in engineering

- Heating, Ventilating and Air Conditioning
- Plumbing and Piping Systems
- Power Distribution and Lighting Systems
- Civil Engineering
- Lighting Consulting Services
- Communication Systems
- Fire Protection & Life Safety Systems
- Security & Fire Safety
- Commissioning
- Energy Use Analysis
- Detailed Analysis of Existing Facilities & Systems

Special Services

- LEED Certification
- Energy Analysis
- Economic Feasibility
- Systems Analysis
- Site Investigations
- Commissioning
- Fire Safety Analysis
- Security Assessments & CEPTED Evaluation
- Lighting

Project Phases

- Preliminary Study
- Schematic Design
- Design Development
- Construction Documents
- Construction Administration
- Cost Estimating
- Bidding or Negotiation

Contract Forms

- Design/Bid/Build
- Design/Build
- Integrated Project Delivery (IPD)
- Design Assist.

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about karpinski ENGINEERING

Professional Credentials

As industry leaders, Karpinski Engineering takes part in numerous major professional societies and civic organizations. Staff members have been recognized by their contributions to professional journals and periodicals, and have also received awards of technical achievement and excellence in engineering from numerous professional societies and organizations.

In addition, Karpinski Engineering holds professional registrations in over thirty states throughout the country, with a distinguished performance record in a wide range of market sectors and building types. Among these are:

- **Financial Institutions**
- **Health Care Facilities**
- **Educational Institutions & Libraries**
- **Government Facilities**
- **Commercial Facilities & Office Buildings**
- **Historic Facilities**
- **Computer Facilities**
- **Research Laboratories**
- **Church & Worship Facilities**

Our reputation, established through dedication and commitment, is enhanced by the many referrals we receive from clients who express great satisfaction with our work. With a proven team of mechanical and electrical engineers and in-house expertise in technology systems, Karpinski Engineering looks forward to designing the optimum solutions for your facility.

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about karpinski ENGINEERING

History

Since 1983, Karpinski Engineering has provided complete mechanical, electrical, technology systems, plumbing, and civil engineering services for health care, educational, governmental, commercial, and industrial facilities. Our highly qualified engineering staff combines years of professional experience, ensuring clients that their project is a success.

Services

Karpinski Engineering offers complete overall design by coordinating mechanical, electrical, fire protection, plumbing and technology systems with the responsible architectural and structural entities using a single source responsibility technique. Furthermore, clients rely on us because our principals are involved in every aspect of each project. All engineered systems are based on the very latest technology, ensuring accurate and efficient buildings that are consistent with the financial resources of the project.

In addition to traditional MEPT engineering, Karpinski Engineering also offers civil engineering, fire safety & security, certified lighting design, commissioning and LEED certification services. The availability of all of these services in-house affords more accurate coordination and a better understanding of these services when performed out-of-house. Through our LEED certification services we are dedicated to promoting sustainable design as both a viable and desirable solution. Karpinski Engineering has established a reputation as one of the leading engineering firms for the design of "green" buildings.

Staff engineering qualifications include professional certifications such as state registrations (PE) and industry specific registrations (RCDD, NICET, LC, and LEED AP), as well as specific expertise in the use of industry standard design tools.. Furthermore, KE employee participation in the standards developing organizations like ASHRAE, IES, IEEE, USGBC, to name a few, affords our clients early knowledge and understanding of the construction standards of the future. Clients also benefit from outstanding engineering capabilities, utilization of Revit MEP and Building Information Modelling (BIM) for the production of working drawings as well as from the added efficiency of a single engineering-administrative team for the entire project. The "team approach" to engineering assures prompt completion of projects and sound budget management in all areas. Karpinski Engineering continually receives high praise for the cooperative spirit in which all personnel perform.

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- **Historic Facilities**
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- **Research Laboratories**
- **Church & Worship Facilities**

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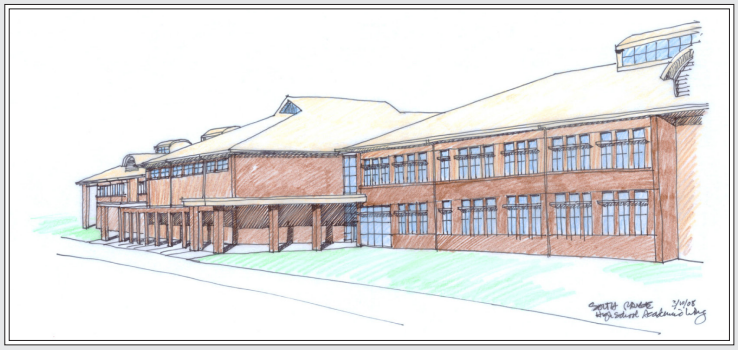
south range k-12

North Lima, Ohio

This 200,000 sf K-12 school was designed for LEED certification at the "Certified" level. The building includes (3) gymnasiums, a performing arts wings with 800 seat auditorium. Energy conservation measures include the following: Ground Source Heat Pump system, daylighting controls for the classroom lighting systems, demand control ventilation, energy recovery. Energy modeling using the DOE-2 eQuest program was used to assist the architect with building envelop construction decisions. Other LEED strategies include indoor air quality monitors and testing, alternative refrigerants and commissioning. The ground source heat pump system bore field required close coordination with the civil engineer due to the location of wetlands on the site and two new water wells for domestic water.

Construction cost: $12 million.



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newton falls school district renovations

Newton Falls, Ohio

KE's involvement with Newton Falls School District consisted of the renovation of two schools: one building a combination junior/senior high school and the second a K-2 elementary school.

The K-2 school consisted of the complete replacement of all HVAC and electrical systems. The cafeteria HVAC system includes a demand control ventilation system for maximum energy efficiency and indoor air quality. All lighting and technology systems were replaced and a new fire main was brought into the building to provide a water supply for the new fire suppression sprinkler system.

The junior/senior high school included the reuse of the existing boiler system for heating and the addition of a chiller system for cooling. All air distribution equipment, including air handlers and unit ventilators, were replaced. The existing sprinkler system was modified to accommodate the renovated spaces. In addition, the lighting and technology systems were replaced. The design of the high school included coordination with the construction manager for the phasing of construction. The building remained in operation throughout the entire construction process.

Both buildings were brought up to current codes and standards for indoor air quality and life safety.

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labrae schools, grades 3-12

Leavittsburg, Ohio

KE provided technology design for LaBrae's 3-12 schools totaling in 20,000 square feet. The state of the art design delivers data and voice technology to the classroom over a single Ethernet network. Karpinski Engineering worked closely with the district for several months developing the technology design, including the telephone system, which is comprised of a Voice over Internet Protocol (VoIP) system that provides digital and analog services to the school. KE's design also included a card access and video surveillance to provide a comprehensive security system for the school. Audio/Video includes voice reinforcement in the classrooms, sound reinforcement in the gymnasiums and music room, and a performance sound system in the auditorium.

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glenoak high school
plain local school district

Canton, Ohio

Karpinski Engineering provided MEPT design for one of the largest high school facilities in the State of Ohio, the new 370,000 sf Glen Oak High School. The $35.2 million project includes four academic wings with provisions for a fifth. The new high school will include an athletic wing with a main gym, an auxiliary gym, student locker rooms, and team locker rooms with provisions for a future natatorium. The fine arts wing includes a 1,000 seat theater, a "black box" theater, a band room, and a choir room. The library is shared by the community and high school.

In addition to normal MEP engineering, we worked closely with the construction manager and architect to evaluate alternative HVAC system first costs, operating costs, and installation requirements. The technology systems were also designed for the new high school. The facility includes voice/data structured cabling, paging and intercom systems, a broadband video distribution system, access control and surveillance systems and various sound systems for the gymnasiums, auditorium, theater, and music rooms.

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prospect elementary school renovation
girard local school district

Girard, Ohio

Karpinski Engineering provided the Mechanical, Electrical, Plumbing and Technology planning and design for the renovation of the existing 59,000 sf school and a 7,300 sf addition, including two kindergarten classrooms. The total construction cost for this project was $2.9 million and the work designed by Karpinski Engineering had a construction value of $1.7 million.

Design highlights include new air conditioning for the entire school, including a new air-cooled chiller; a new boiler plant; a new fire pump that also served the adjacent middle school; lighting and power upgrades; and a new fire alarm system.

The addition of the chiller and fire pump required a power upgrade for the facility. This included utility coordination and a new pad-mounted transformer and three new service entrances.

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geneva local school district

Geneva, Ohio

The new Geneva High School is equipped with a state of the art network that supports data, voice and video applications all over a single Ethernet backbone. Designed by Karpinski Engineering, the network offers the school a fully digital environment that has turned the teachers' workstation into a true multimedia utility. In addition to the network, KE designed an access control system and a surveillance system that connects over 28 cameras to networked digital recorders (DVR). The networked feature of the DVR's will allow designated staff to eventually monitor the surveillance system from anywhere on the district wide network. Technology systems also included a performance sound system for the auditorium and sound systems for the gymnasiums and music rooms.

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bay village middle school - geothermal

Bay Village, Ohio

Karpinski Engineering designed a new $15 million geothermal HVAC system for Bay Village Middle School. The system contains 400 tons of cooling and 250 bores at 300 feet deep.

The 130,000 sf building includes a collection of pipes that lie below a baseball field. There are approximately 70 heat pumps installed throughout the middle school complex. The new system uses a primary and secondary pumping arrangement to minimize the energy required for distribution of the condenser water serving the heat pumps.

A “demand control ventilation” system monitors the CO2 levels in each HVAC zone to adjust the outdoor air quantity in order to maintain optimal energy savings and the highest possible indoor air quality for the building.

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youngstown east high school

Youngstown, Ohio

Karpinski Engineering was selected as the MEP engineers for Youngstown East High School, part of the city of Youngstown's district-wide school facilities upgrade. The 220,000 sf facility includes a performing arts theatre, student commons area, two gymnasiums, and several classrooms. It contains three levels that are set in a tiered fashion along a hillside. Due to the site orient, the equipment on the rooftop was minimized to improve building aesthetics. This $24 million project was designed and constructed according to the Ohio School Facility Commission's standards.

The 1,000 seat auditorium includes a theatrical quality stage with fly tower, stage rigging, theatrical quality lighting and controls. The HVAC system controls the indoor environment based on temperature, humidity, and carbon dioxide levels (a surrogate of occupancy) in the theater. The HVAC system is designed to minimize noise created by the air distribution system in order to maintain the maximum environmental quality possible in the theater.

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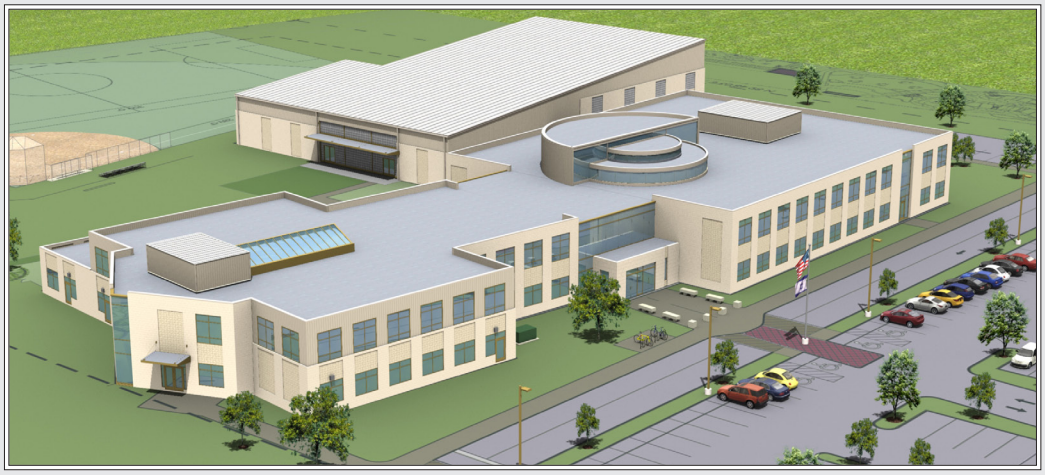

fuchs mizrachi k-12 school

Beachwood, Ohio

The building is being designed for LEED Silver certification. Energy conservation measures include the following: Ground Source Heat Pump system, daylighting controls for the classroom lighting systems, demand control ventilation, energy recovery, solar domestic water heating, and extensive energy monitoring controls. Energy modeling using the DOE-2 eQuest program was used to assist the architect with building envelop construction decisions. Other LEED strategies include indoor air quality monitors and testing, low water use plumbing fixtures, alternative refrigerants, commissioning. The project includes a 2 story atrium with in-floor radiant heating. The second floor classrooms are designed with exposed structure so nearly all of the heat pumps are located on the first floor level with ductwork supplying the second floor. The building design required the use of a hot water heating for various spaces in the building. To accomplish this, two central plants using water-to-water ground source heat pumps were designed to generate heating hot water for use by air handling units, radiant heating elements, and in-floor radiant heating.

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beaumont school

Cleveland Heights, Ohio

Beaumont School is the oldest secondary school in the Cleveland area and has provided a private school education to this region since its origin in the 1850's. Karpinski Engineering has provided coordinated design efforts for various projects at Beaumont Schools which included a school systems study and a garage renovation.

Furthermore, Karpinski Engineering provided professional electrical engineering services for a replacement fire alarm system for the Beaumont School Main Building and Fine Arts Building. This renovation was completed in two phases of work, the first being renovations to the Main Building and then the Fine Arts Building.

Karpinski Engineering also designed MEP systems for the renovation of the Athletic Department. Renovations included updating the MEP systems for the locker rooms, physical education office, weight and cardio training areas, team rooms, free weight storage areas and additional storage spaces.

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bowling green state university
campus facility assessments & masterplan

Bowling Green, Ohio

KE provided Civil, MEP, Fire Protection and Technology facility evaluation and upgrade recommendations for 61 buildings totaling 2.4 million square feet on the existing main campus at BGSU. KE reviewed & provided upgrade recommendations to civil/ site issues which were addressed in the previous BGSU Campus Master Plan (prepared in 2004). Data obtained from the University, projections & recommendations provided by the Architect's Planner, and a comprehensive review of the existing campus infrastructure all contributed to the information incorporated in this update. Prioritized recommendations were submitted to the University for incorporation into their campus master plan.

Civil Engineering investigations and recommendations incorporated update of the University's CAD infrastructure plans and an overall evaluation of existing site utilities and amenities including:

- Street, drive and parking lot condition
- Recommendations for redesign, expansion, repair, replacement and/or relocation of parking lots, streets, and related infrastructure
- Multipurpose trail surface modifications and improvements
- Storm sewer repair requirements
- Maintenance recommendations

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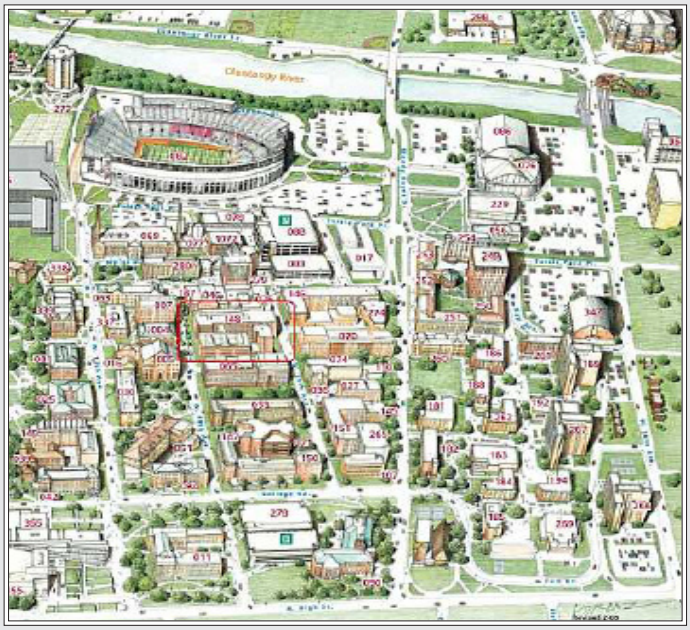

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academic core north facility assessment - the ohio state university

Columbus, Ohio

Karpinski Engineering performed MEP Facility Assessments on the campus of The Ohio State University for 62 buildings, approximately 5.2 million square feet in conjunction with Sasaki Associates, Inc. The goal of these assessments was to provide OSU Facilities personnel with a means to continue performing assessments going forward. The data is currently providing a road map for new construction, renovations, and replacements of facilities on campus. Entering this data into software for the design team promoted collaboration while facilitating an effective and efficient use of University resources. The total design team fee for these Phase I Assessments and the software was $1.2 million and completed in August 2008.

Phase II of the Facility Assessments included 54 additional buildings on the school's campus and the entire Medical Center campus. The results of the Assessments were complete June 2009.

proud partnerships

cleveland state university - marshall school of law evaluation study

Cleveland, Ohio

The study conducted for the Marshall School of Law at Cleveland State University included evaluation of the existing mechanical, electrical, plumbing and fire protection systems within the facility. These systems and equipment were evaluated for operational efficiency, remaining equipment life, and their ability for modification to accommodate the proposed architectural updates to the building. Special consideration was given to electrical power distribution systems, lighting, fire alarm, heating, ventilating, air conditioning, plumbing, and fire protection systems.

The existing building's façade was to receive a major face lift as well as a new atrium by the provision of a floor penetration between the first and second floor of the building. The MEP facility study considered the requirements for the addition of HVAC and smoke control for the two story space.

The conclusion of the study included probable costs of construction for the work required to upgrade the facility to state-of-the-art to provide the most efficient and cost effective operation possible.

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educational facility evaluations and assessments

Case Western Reserve University

Cleveland, Ohio

- Medical School Facility Study

Cleveland State University

Cleveland, Ohio

- Marshall School of Law Evaluation Study
- Science & Research Building, Hood Exhaust System Study

Hawken School

Cleveland, Ohio

- Campus wide MEP Study

Huntington Building

Cleveland, Ohio

- MEP Survey

OARDC

Wooster, Ohio

- Campus Chilled Water System Study

Ohio School Facilities Commission

- Various Sites throughout the State
- District Surveys

The Ohio State University

Columbus, Ohio

- Over 100+ buildings on the Academic Campus & Medical Center Campus

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osfc design and assessment experience

Newton Falls Exempted Village School District

Newton Falls, Ohio

- High School
- Middle School
- 3-6th Grade School
- K-2 School

Youngstown City School District

Youngstown, Ohio

- East High School
- Wilson Middle School

Alliance Rockhill Elementary School

Alliance, Ohio

East Liverpool City School District

East Liverpool, Ohio

- Elementary School
- High School/Middle School
- Vocational School

Geneva Area City School District

Geneva, Ohio

- High School
- Middle School
- Cork Elementary School
- Austinburg Elementary School

Labrae Grade 3-12 School

Trumbull County, Ohio

Plain Local Schools

Canton, Ohio

- GlenOak High School
- Warstler Elementary School

Orrville City Schools

Orrville, Ohio

- Middle School
- Elementary School

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osfc design and assessment experience

Ravenna High School

Ravenna Ohio

South Range K-12

North Lima, Ohio

Amherst City Schools

Amherst, Ohio

- High School
- Middle School

Cuyahoga Falls City School

Cuyahoga Falls, Ohio

Edgerton City Schools

Edgerton, Ohio

Switzerland of Ohio Local School District

Monroe County

- Monroe High School
- Wooslfield Middle School
- Hannibal Elementary School

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k-12 specialized experience

Hudson City Schools

Hudson, Ohio

$5 million High School Science Wing Addition

$8 million renovation to the elementary schools and middle school

Revere Schools

Bath, Ohio

$15 million additions / renovations

Elementary

Middle

High School

Rocky River City Schools

Rocky River, Ohio

$24.5 million program which includes new Middle School

Shaker Heights School

Shaker Heights, Ohio

(16) renovation projects

Elementary

Middle

High School

Strongsville City Schools

Strongsville, Ohio

$5 million new Elementary School

Union Local School District

Belmont, Ohio

$10 million new elementary school, $10 million new high school wing, and high school

West Geauga Schools

Chesterland, Ohio

$20 million additions and renovations, which includes (2) elementary schools, middle school, and high school

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k-12 specialized experience

Northern Tioga School District

Elkland, Pennsylvania

$24 million additions / renovations

(5) District Buildings

Libraries

Multipurpose Rooms

Technology

Panama Central School

Panama, New York

$10 million additions / renovations

Libraries

Technology

Revere Schools

Bath, Ohio

$15 million additions / renovations

Elementary

Middle

High School

Rocky River City Schools

Rocky River, Ohio

$24.5 million program which includes new Middle School

Shaker Heights School

Shaker Heights, Ohio

(16) renovation projects

Elementary

Middle

High School

Strongsville City Schools

Strongsville, Ohio

$5 million new Elementary School

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k-12 facilities experience - new construction

Alliance Rockhill Elementary School

Alliance, Ohio

$6 million new facility.

Amherst Central School

Amherst, New York

$10 million new middle school.

Bay Village City Schools

Bay Village, Ohio

$15 million new middle school.

Geneva City Schools

Geneva, Ohio

New high school.

Gilmour Academy

Gates Mills, Ohio

$3 million new middle school.

Green Schools

Greensburg, Ohio

$22 million new high school.

Hawken School

Gates Mills, Ohio

$4.5 million new upper school natatorium.

New field house complex and locker room addition.

LaBrae School

Trumbull County, Ohio

$18 million new facility. Grades 3-12, includes classrooms, auditorium, and gymnasium.

Plain Local School District, Glenoak High School

North Canton, Ohio

$40 million new high school.

Rocky River City Schools

Rocky River, Ohio

$24.5 million program which includes a new middle school.

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k-12 facilities experience - new construction

St. Ignatius High School

Cleveland, Ohio

New learning center.

South Fayette High School

South Fayette, Pennsylvania

$23 million new high school.

Stow-Monroe Falls Schools

Stow, Ohio

$21 million new high school.

Strongsville City Schools

Strongsville, Ohio

$5 million new elementary school

Youngstown East High School

Youngstown, Ohio

$18 million, 200,000 s.f. new facility.

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k-12 facilities experience - renovations & additions

Amherst Central School

Amherst, New York

$5 million addition and renovation to the high school.

Smallwood Elementary additons and renovations

Windmere Elementary School additions and renovations

Amherst City Schools

Amherst, Ohio

Additions and renovations including high school and junior high.

Auburn Career Center

Painseville, Ohio

Additions and alterations to media center, auditoriums, and classrooms

Berea City Schools

Berea, Ohio

$6 million renovation of (9) district school buildings.

Cuyahoga Falls City Schools

Cuyahoga Falls, Ohio

Studies and building assessments

East Liverpool School District

East Liverpool, Ohio

Additions and renovations to high school, junior high, and two elementary schools.

Edgerton City Schools

Edgerton, Ohio

Studies and building assessments

Gilmour Academy

Gates Mills, Ohio

Student housing and Cafeteria renovation.

Lower school addition.

Hudson City Schools

Hudson, Ohio

$8 million renovation to the elementary schools and middle school.

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k-12 facilities experience - renovations & additions

Lake High School

Hartville, Ohio

Addition and renovation to the high school.

Newton Falls City Schools

Newton Falls, Ohio

New 3-6 grade facility. Additions and renovations to K-2 and high school facility.

Oberlin City Schools

Oberlin, Ohio

Major renovation to high school auditorium and science department.

Plain Local School District

North Canton, Ohio

Renovation to one middle school and two elementary schools.

Revere Schools

Bath, Ohio

$15 million addition and renovation to the elementary school, middle school, and high school.

Shaker Heights School

Shaker Heights, Ohio

Sixteen renovation projects to the elementary school, middle school, and high school.

St. Edward's High School

Lakewood, Ohio

Addition and renovation

St. Ignatius High School

Cleveland, Ohio

$2 Additions and renovations to the science building.

Central chiller and boiler plant renovations.

Historic main classroom exterior renovation.

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BARBER & HOFFMAN, INC.
Consulting Engineers

Firm Overview

HISTORY

Barber & Hoffman, Inc. is a premier structural engineering consulting firm serving the Midwest and mid-Atlantic states. We have been providing structural engineering expertise since C. Merrill Barber founded the firm in 1934 in Cleveland, Ohio. In 1998, the firm opened an office in the Pittsburgh area and in 2009, an office in Columbus, Ohio.

During Mr. Barber's distinguished career as a design professional, together with his partners and successors, many impressive landmarks in the public and private sectors have been created. Most notable are: Cleveland Museum of Art, Cleveland Botanical Gardens, Severance Hall (designed by Mr. Barber early in his career), the Great Lakes Science Center, the Cleveland Federal Office Building, Cleveland State University Library Tower, the Cleveland Convention Center, and Cuyahoga Community College Metro Campus just to name a few. Mr. Barber's dedication to innovative yet cost-effective design philosophy is still the company's hallmark today.

Today, our Cleveland office continues to work at some of the aforementioned project locations, also adding major health care clients such as the Cleveland Clinic Foundation, University Hospitals Health System, Summa Health Care System, along with other institutions such as Case Western Reserve University, John Carroll University, and Cleveland State University. Our Pittsburgh office has provided services for major institutions in the western Pennsylvania area such as: the University of Pittsburgh Medical Center, Duquesne University, the University of Pittsburgh, Carnegie Mellon University, and Pennsylvania State University. Our client retention speaks volumes to the service we provide.

EXPERIENCE

We serve design and construction professionals, medical and educational institutions, building owners and managers, government agencies, contractors, fabricators, developers, and others. Our firm is rich with a versatile staff of registered Professional Engineers, EI's, and technicians. We possess decades of experience coupled with the knowledge of the latest design techniques, structural engineering modeling, materials technology, and cost-effective planning to produce a wide range of interesting and efficient buildings and structures.

Each project is managed by a Principal who brings together knowledge, coordination, and integration of special skills needed for completion. The daily interplay among the staff encourages creative solutions while eliminating costly research in design challenges. This approach has retained many of our valued clients.

We utilize integrated computer modeling with associated tools for analysis and design. We are proficient in utilizing AutoCAD and Building Information Modeling (BIM) for design and drafting.

SUMMARY:

- Structural Consultants
- Founded in 1934
- 3 Office Locations
- 5 Principals
- 25 Engineers (18 Registered)
- 6 Technicians

STATE REGISTRATIONS:

- Arizona
- Colorado
- Connecticut
- District of Columbia
- Indiana
- Kentucky
- Maryland
- Michigan
- Minnesota
- New York
- Ohio
- Pennsylvania
- Virginia
- West Virginia

CAPABILITIES:

- Parking Garages
- Restoration
- Forensic
- New Structures
- Existing Structures
- Building Assessments
- Facades

MARKET AREAS:

- Healthcare
- Education
- Commercial
- Institutional
- Housing
- Public Sector
- Private Sector
- Design-Build

1100 West 9th Street	Cleveland, OH 44113	P 216.875.0100	F 216.875.0111
8720 Orion Place	Columbus, OH 43240	P 614.825.9580	F 614.825.9581
215 Executive Drive	Cranberry Twp., PA 16066	P 724.741.0848	F 724.741.0849

www.barberhoffman.com

BARBER & HOFFMAN, INC.
Consulting Engineers

PROJECT

Willson PK-8 School

YEAR COMPLETED 2009

Cleveland, OH
$11.5M

Cleveland Metropolitan School District's Building Program is a joint effort by the District and the Ohio School Facilities Commission (OSFC) to transform every Cleveland school into a 21st century learning environment. The district's Board of Education approved the Building Program which outlined replacement or renovation or consolidation of the district's schools.

Based on the Program's building assessment, the district determined that building a new modern school to replace the aging 103-year-old school building was required. The new school would combine elementary and middle grade schools with a total of 574 students.

The new two-story brick veneer school building area consists of 77,300 square feet housing 25 classrooms, a 250-seat cafeteria that can be used as a 500-seat auditorium, and a 1,000-seat gymnasium. To accommodate different age or grade groups, three separate outdoor play areas are provided.

The floor and the roof systems are supported on exterior and interior reinforced concrete masonry bearing walls and limited interior beam-column steel frames. The building's foundation system consists of shallow wall strip footings and column spread footings bearing on virgin soils or engineered backfill.

The building's 15,000-square-foot second floor structural frame consists of concrete slab on metal form deck supported on standard steel bar joists. The second floor roof construction consists of metal roof deck supported on cold-formed metal frame roof trusses and long-span roof steel bar joists spanning over the 72'-0"-wide gymnasium.

PROJECT DESCRIPTION:

A new, 77,300-square-foot, two-story school building, including a gymnasium and a multi-purpose room.

ADDITIONAL PROJECT FACTS:

- Reinforced concrete masonry load-bearing walls with brick veneer.
- A 1,000-seat gymnasium with 72'-0" clear span roof joists.
- Architecturally exposed structural steel main entry canopy.

BARBER & HOFFMAN, INC.
Consulting Engineers

PROJECT

Dayton Public Schools
Ruskin PK-8 School

YEAR COMPLETED 2008

Dayton, OH
$11.0M

PROJECT DESCRIPTION:

A new, 73,461-square-foot, two-story school building, including a 471-seat gymnasium. Masonry bearing walls and steel joists provided an economical design.

Part of a program by the Dayton Public Schools to renovate or rebuild 26 schools over a 10-year period, Ruskin PK-8 School replaced a building dating to 1965, which was demolished in 2005.

The building was designed as three separate learning communities each with its own extended learning area that share common spaces such as a 471-person gymnasium and a full service kitchen. The new school features state-of-the-art computer lab, audio enhancement, document cameras, video surveillance, and electronic card access.

The building's 13,000-square-foot second floor structural frame consisted of concrete slab on metal form deck supported on standard steel bar joists. The floor system is supported on exterior and interior reinforced concrete masonry bearing walls. The main roof and the second floor roof construction consisted of standard and long-span steel bar joists supporting a roof metal deck. In addition to the reinforced concrete masonry load-bearing walls, a limited interior steel frame was utilized to support parts of the second floor and the roof framing. The building's foundation system consisted of shallow wall strip footings and column spread footings bearing on virgin soils or engineered fill.

A major element of the architectural design was a cupola rising 70' above the main entrance. This was a nod to the original, 1884 Ruskin School, which featured a large bell tower. Today, the original bell is displayed in the lobby of the new school. The cupola provided significant structural design issues, however. We worked closely with the Architect and the Contractor to create details to securely anchor the cold-formed cupola to the main structure.

ADDITIONAL PROJECT FACTS:

- Reinforced concrete masonry load-bearing masonry walls with brick veneer.
- Curved steel lintels supporting arched windows.
- 471-seat gymnasium with 74'-0" clear span roof joists.

BARBER & HOFFMAN, INC.
Consulting Engineers

PROJECT

Cleveland Metropolitan Schools
Mary Bethune K-8 Facility

YEAR COMPLETED 2007

Cleveland, Ohio
$10.0 M

PROJECT DESCRIPTION:

An addition and renovation to an existing K-8 facility for the Cleveland Metropolitan School District

The renovation and addition to Mary Bethune K-8 facility was performed as part of the Ohio School Facilities Commission improvement projects. The existing facility was 70,800 square feet and was originally constructed using load-bearing masonry walls which supported steel floor joists with cast-in-place concrete on metal deck and steel roof joists with metal roof deck. The structural renovations included infilling abandoned floor openings and retro-fitting new steel framing to allow for the removal of existing load-bearing masonry walls. Upgrades to the mechanical, plumbing and electrical systems required structural renovations including additional framing and reinforcement for five new rooftop mechanical units.

The Mary Bethune K-8 facility was expanded with a 13,700-square-foot addition. The two-story addition included a new multimedia room, reading room, distance learning and a large student dining area on the first floor with an art room and music room located on the second floor. Like the existing structure, the addition utilized load-bearing masonry walls as well as steel framing to support the floor and roof levels which were framed by steel joist and beams. The entire structure was constructed on a system of shallow spread footings.

ADDITIONAL PROJECT FACTS:

- 70,800 -sq.-ft. of renovation
- 13,700-sq.-ft. addition
- Retro-fitting new steel beams to remove existing load-bearing walls.
- Structural support of new rooftop mechanical equipment.

BARBER & HOFFMAN, INC.
Consulting Engineers

PROJECT

Cleveland Metropolitan Schools
Daniel Morgan K-8 Facility

YEAR COMPLETED 2007

Cleveland, Ohio
$11.0 M

The new Daniel E. Morgan PreK-8 facility was designed and constructed as part of the Ohio School Facilities Commission improvement projects. This school is also expected to be used by the surrounding community as a common facility The first floor of the facility included classrooms for grades PreK through fifth grade, mechanical room, art room, and a cafeteria with a stage which opened towards the gymnasium for large or small school performances. The second floor was utilized for classrooms for grades six through eight, multimedia room, distance learning and library.

Masonry walls were used as load-bearing elements and for lateral resistance as shear walls. The floors were constructed with poured-in-place concrete on metal deck and framed with steel joists. In limited areas such as in the administration area, the floors were supported by structural steel beams and columns in lieu of masonry. The flat roof areas above the cafeteria were framed with steel joists while cold-formed steel trusses were used to support the sloped roof profile which covered approximately eighty percent of roof above the second floor. The sloped gymnasium roof structure utilized structural steel beams and trusses. The entire facility is supported on a system of shallow spread footings.

PROJECT DESCRIPTION:

A Pre K-8 facility for the Cleveland Metropolitan School District.

ADDITIONAL PROJECT FACTS:

- 67,500 square feet.
- Amenities include a library, cafeteria, and gymnasium.
- Reinforced masonry walls for load-bearing and lateral resistance.
- Shallow spread footing foundation system.

Firm Profile

History

Our firm is ***dedicated*** to providing superior professional landscape architectural, architectural and planning services to our clients with offices in Columbus, Covington and Indianapolis. Our expertise is ***broad ranging*** and includes large scale land use planning, all scales of park and open space planning, historic district and urban design, corporate facility and campus planning, residential and amenity-based community planning, mixed-use facilities design and building-specific design. Our clients include public agencies, municipalities, private developers and property managers.

Credentials

Our practice is an assembly of ***senior-level*** landscape architects, architects and planners, each having ***diverse*** professional backgrounds, specific areas of expertise including LEED accreditation and AICP certification, and extensive project experience. Having received numerous professional design awards, our firm enjoys a reputation for innovative design, technical superiority in construction documentation, and an outstanding quality of workmanship in completed projects. Our firm stresses personal service to clients provided by principal-level professionals to achieve close client involvement in all phases of project development. The success of this approach is evidenced by the quality of our finished projects and our ongoing relationships with prior clients.

Client Services

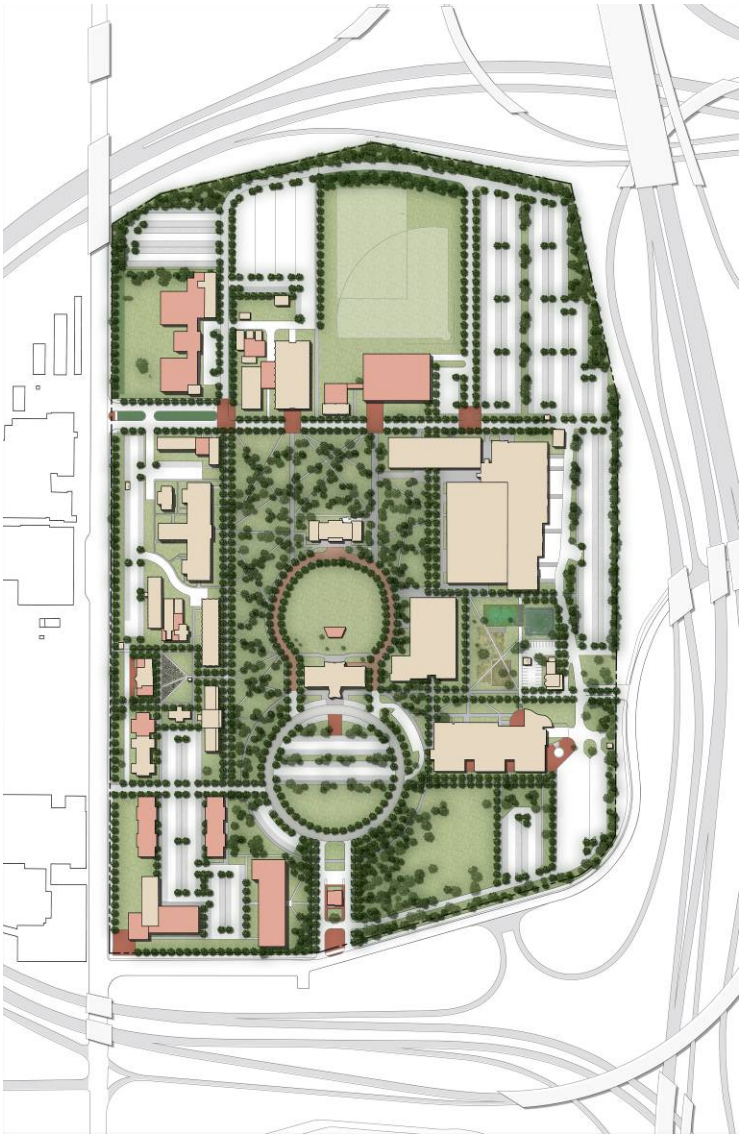
Our in-house services allow our clients to access the ***latest technologies*** and advances in the fields of environmental design, computer-aided drafting and design, accounting, and project management software. These services include technical quality assurance checks, cost estimating, specifications and technical writing, contract administration, graphic design and illustration, and computer-aided drafting and design. Our CADD operation utilizes AutoCAD® 2010 software with capabilities in MicroStation.

Our goal is to produce the highest level of design and service within our clients' budgets, schedules and constraints, resulting in ***quality built spaces***. Our experience in design and planning is quite extensive and broad based, capable of satisfying a variety of project and client needs.

Fort Hayes Campus Development Plan & Implementation
Columbus, OH

Project Highlights

+ Campus is a national historic district, the site of a Civil War military base
+ Planning and design focus on completion of the campus: building sites, vehicular and pedestrian circulation, parking, open space, security, stormwater, sanitary sewers, water, electrical and communications
+ A sustainable campus: bioswales, rain water harvesting, permeable pavements, solar and geothermal energy generation, recycled, reused and renewable materials, ecological land labs, urban agriculture gardens, adaptive reuse of historic buildings, multi-modal transportation
+ Leading a diverse team of engineers to implement sustainable infrastructure in the first phase of implementation
+ Concepts focus on: 'protecting the core' of students, historic campus, academic mission, contemporary infrastructure to meet the needs of today and the future



Project Summary

Project Type
Campus Planning and Design
K-12

Project Size
±78 acres

Client
Columbus City Schools

Reference
Carole Olshavsky
Senior Executive, Capital Improvements
Columbus City Schools
270 East State Street
Columbus, Ohio 43215
614.365.5610

Client Deliverable Date
2010 Master Plan
2012 First Phase

Project Budget
$5,000,000 First Phase

Collaboration
Hull Engineering
Heapy Engineering

Award
Ohio Chapter ASLA Award of Honor, 2010

Fort Hayes Campus Development Plan & Implementation
Columbus, OH

Pre-Treatment Water Flow
Solid = Surface
Dashed = Piped

Post-Treatment Water Flow
Solid = Surface
Dashed = Piped

Existing Storm Sewer

Bio-Swale
Filtration, Movement, Storage, and Infiltration

Green Street
Filtration, Movement, Storage, Evapotranspiration and Infiltration

Rain Garden
Filtration, Storage, Evapotransporation and Infiltration

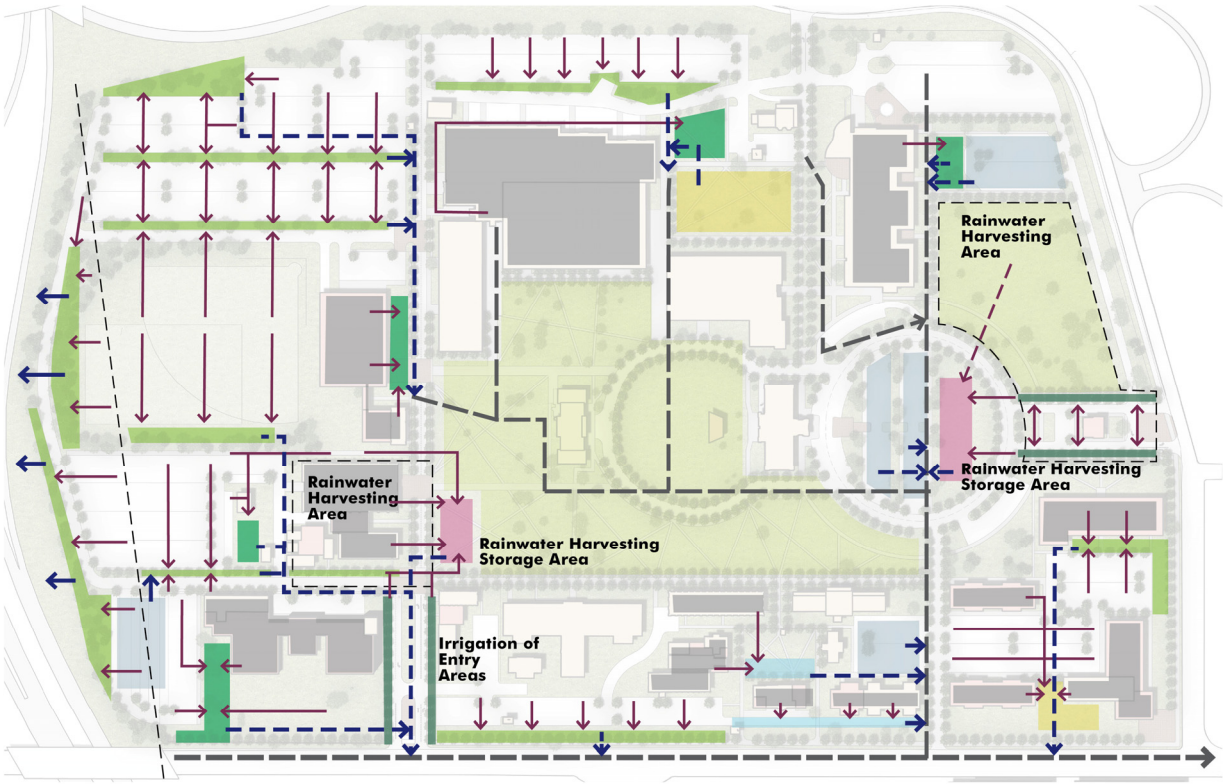
Wet Meadow
Filtration, Movement, Evapotransporation and Infiltration

Existing Turf and Trees
Filtration, Movement, and Evapotransporation

Permeable Pavement
Filtration, Storage and Infiltration

Rainwater Harvesting
Storage and Evapotransporation

Building Roofs with Ground-Level Treament
Movement



Village Academy Schools
Powell, OH

Project Highlights

+ Master Development Plan to address current and long-term land use to meet the evolving needs of an independent school
+ Program components include pre-school; lower, middle and upper schools; arts conservatory, science facility, field house, home arts center, alumni facility, recreation facilities, future international dormitory
+ Strategic development recommendations to assist the administration with capital planning and budgeting for the incremental development projects
+ Assessment of campus and surrounding area for circulation, current facility use and general space conditions, character & identity
+ Balances rigorous code requirements for historic character with the need for institutional flexibility and efficiency

Project Summary

Project Type
Campus Planning
Independent School

Project Size
Campus-wide

Client
Village Academy Schools

Reference
Susan Lasley, Head of School
Village Academy Schools
284 South Liberty Street
Powell, Ohio 43065
614.841.0050

Client Deliverable Date
2010

Project Budget
n/a

Georgian Heights Alternative Elementary School
Columbus, OH

Project Highlights

+ Site design and planning for a new school facility to accommodate a science- and math-focused alternative elementary school program
+ The public access zone of the site is carefully designed to provide safe, convenient drop-off of school children.
+ Parent and visitor automobile traffic is separated from bus traffic by a central pedestrian and 'green' infrastructure spine
+ Existing baseball field is preserved to facilitate on-going, heavy community use
+ Outdoor classroom, community gardens and a roof water collection cistern are framed by classroom wings
+ LEED® registered seeking LEED Silver certification

Project Summary

Project Type
Campus Planning
K-12

Project Size
7.9 Acres

Client
Columbus City Schools

Reference
Carole Olshavsky, FAIA
Senior Executive
Capital Improvements
Columbus City Schools
270 East State Street
Columbus, Ohio 43215
614.365.5610

Client Deliverable Date
2010

Project Budget
$1,500,000

Collaboration
M+A Architects
Burt Hill

Clinton Elementary School
Columbus, OH

Project Highlights

+ Site design and planning for K-5 school renovation of a historically significant structure
+ Grand stairway, plaza and play areas re-establish a public face to High Street
+ Creates a new 'front door' and entry plaza
+ Increases green open space
+ Introduces sustainable infrastructure into the educational environment
+ Entry plaza integrates a creative approach to storm water management and contributes to a natural systems learning environment
+ LEED® registered seeking LEED Silver certification

Project Summary

Project Type
Campus Planning
K-12

Project Size
2.9 Acres

Client
Columbus City Schools

Reference
Carole Olshavsky, FAIA
Senior Executive
Capital Improvements
Columbus City Schools
270 East State Street
Columbus, Ohio 43215
614.365.5610

Client Deliverable Date
2010

Project Budget
$800,000 (site)

Collaboration
Schooley Caldwell Associates

Cedarwood Alternative Elementary School
Columbus, OH

Project Highlights

+ Site design and planning for a replacement elementary school that will join a previously separate community park and school site
+ Building is centrally located to provide an equal buffer for the neighboring homes
+ Building entry aligned with existing mature trees, creating an entry green
+ Preserve mature trees along western edge of the site to maintain the park like character
+ Separation of bus and parent drop-off alleviates traffic and pedestrian/vehicular conflicts
+ LEED® registered seeking LEED Silver certification

Project Summary

Project Type
Campus Planning
K-12

Project Size
12.6 Acres

Client
Columbus City Schools

Reference
Carole Olshavsky, FAIA
Senior Executive
Capital Improvements
Columbus City Schools
270 East State Street
Columbus, Ohio 43215
614.365.5610

Client Deliverable Date
2010

Project Budget
$1,500,000 (site)

Collaboration
SHP Leading Design

Circleville City Schools
Circleville, OH

Project Highlights

+ Master planning and site design to consolidate facilities spread across the city into a single educational campus to include District Administration Office Building, High School and Middle School with shared Dining Commons, and an Elementary School
+ Thoughtful design and schedule analysis enable existing High School and Elementary School to be operational during full construction period.
+ Sustainable stormwater treatment with comprehensive system of cisterns, bioswales and detention areas are disguised in the central quadrangle that connects the Elementary School to the other facilities and provides ceremonial space for use by all the schools and athletic teams.
+ Careful circulation design separates bus, teacher, parent and student traffic and parking while maximizing access and parking for special events.
+ Restoration of riparian forest and establishment of a series of emergent, mesic and upland meadow habitats provide extensive outdoor learning labs and reduce maintenance requirements
+ Site enhancements include an extensive program of athletic facilities, including: renovation of the existing football stadium and running track, two practice football fields, three practice soccer fields, varsity baseball and softball fields with bleacher seating, three practice softball fields, one practice baseball fields, two multipurpose fields, six tennis courts
+ LEED® registered seeking LEED Silver certification

Project Summary

Project Type
Campus Planning
K-12

Project Size
135 acres

Client
Circleville City Schools

Reference
Tom Fernandez, AIA, LEED AP
Principal
SHP Leading Design
4805 Montgomery Road
Suite 400
Cincinnati, OH 45212
513.381.2112

Client Deliverable Date
2011

Project Budget
$65.3 Million

K-12 & Higher Education Client List

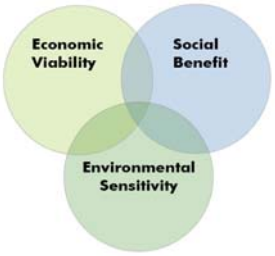
Our Clients

Beavercreek Local School District
Columbus Public Schools
New Albany / Plain Local School District
Northridge Local School District
Oakwood Local City School District
Union Local School District
Vinton Local Schools
Westerville Local School District

Antioch University
Central State University
Columbus State Community College
DePauw University
Kent State University Tuscarawas
Marietta College
Miami University
Muskingum College
The Ohio State University
Ohio University
Purdue University
Sinclair Community College
University of Akron
Wright State University

Commitment to Sustainable Design

Sustainable Design



Our firm is committed to sustainable design as an integral part of our planning and design process. We apply our knowledge base, technical skill, and craft to all of the firm's work and support the industry and our clients through membership to the United States Green Building Council.

We support the underlying principals of sustainability with early evaluation of project objectives, seeking a balance between economic, environmental and societal impacts and opportunities. We apply creativity and innovation to solve current issues while striving for responsible, long-term, practical solutions. All design and planning projects begin with overall sustainability goals and consideration of LEED® certification whenever appropriate. Our multi-disciplined staff of LEED Accredited Professionals guide projects through the process when certification is pursued.

Our commitment to sustainability is evidenced in the following professional services:

+ Eco Charrette Facilitation & Support
+ LEED Certification
+ Conservation Development Planning
+ Sustainable Economic Development Planning
+ Brownfield Reclamation / Remediation
+ "Green" Building Design
+ "Green" Infrastructure Planning and Design
+ Rain Gardens and Bioswale Design
+ Green Roof Design
+ Low Maintenance Natural Ecosystems
+ Green Product Specifications

LEED Projects

We are involved in the following projects that have achieved or are pursuing LEED certification:

+ Plain City Elementary School | Plain City, OH
+ Canaan Middle School | Plain City, OH
+ Olde Orchard Elementary School | Columbus, OH
+ Starling PK-8 School | Columbus, OH
+ Georgian Heights Elementary School | Columbus, OH
+ Alum Crest/Clearbrook 6-12 School | Columbus, OH
+ Cedarwood Elementary School | Columbus, OH
+ Circleville City Schools | Circleville, OH
+ Southern Local Schools | Racine, OH

Commitment to Sustainable Design

- Columbus Housing Partnership Green Home Pilot Project | Columbus, OH (LEED Platinum)
- Diley Ridge Medical Center Ambulatory ED | Canal Winchester, OH (LEED Gold)
- Grange Insurance Audubon Center | Columbus, OH (LEED Gold)
- Mid-Ohio Foodbank | Columbus, OH (LEED Gold)
- Fire Station #10 | Columbus, OH (LEED Silver)
- Adena PACCAR Medical Education Center | Chillicothe, OH (LEED Silver)
- RiverScape Phase III Bike-Hub Facility | Dayton, OH (LEED Silver)
- New Franklin County Courthouse | Columbus, OH
- Fire Station #35 | Columbus, OH
- Blue Sky Ranch & Resort | Park City, UT
- COTA Paratransit Facility | Columbus, OH
- Ohio State Highway Patrol Ironton Post 44 | South Point, OH
- South High Rises Addition and Renovation, The Ohio State University | Columbus, OH
- Ariel Hall Renovation, Central Ohio Technical College | Mount Vernon, OH

APPENDIX C – REFERENCE LETTERS

Columbus Public Schools
Department of Facilities
889 East 17th Avenue
Columbus, Ohio 43211
Phone: (614) 365-8790
FAX: (614) 365-6946

December 4, 2007

Mr. William G. Faciane
Hardlines Design Company
4608 Indianola Avenue
Columbus, Ohio 43214

To whom it may concern,

In the construction industry building life cycles, current market trends, renovation as opposed to new buildings, and the overall building envelope is essential knowledge to providing owners with the correct assessment information for making recommendations. Too many times recommendations are conveyed to owners under misleading pretenses. An example is when a manufacturer suggests to an Architect what type of roof to recommend. The consultant must be comprehensive in all aspects. Hardlines Design Company is comprehensive.

A client of mine once said “you may not like what they have to say, but they will give the correct facts to (help you) make a better decision.” This is what Hardlines Design Company provides to their clientele. Facility Management is a comprehensive profession that requires attention to details. Most Architects are so used to new building architecture that they ignore the existing conditions. Details that allow a really good facility manager to make proper decisions are essential. When given an opportunity these proper choices can save money. We saved 50% of our construction budget and Hardlines Design Company was very much a part of that team.

Hardlines Design Company’s knowledge of facility management is remarkable. It allows the rest of the building team to perform their responsibilities without concern about the project being on the right path. Hardlines Design Company provides invaluable services which leads to successful projects.

If anyone has any questions please feel free to contact me at the address above.

Rex O. Boise, Architect

Columbus City Schools
Facility Department

The Woodward Opera House
circa 1851

November 1, 2004

Woodward Development Corporation
8 W. Vine Street

Mount Vernon, OH 43050

To Whom it May Concern:

The Woodward Development Corporation engaged Hardlines Design Company in 2001 as lead architect in the project to renovate and restore for use a two commercial building complex known as the Woodward Opera House. Renovation of first floor retail spaces, the first phase of this project, was successfully completed in the summer of 2004.

Hardlines Design Company and in particular its principal architect, Charissa Wang, AIA, have been instrumental in the success of our enterprise. This project is complicated involving the integration of two very old multistory buildings. Hardlines is a professional organization that pays close attention to detail and is flexible in dealing with the many complications that arise in such a project. We have been impressed with and benefited from their competence in helping to solve problems in timely, cost effective, and innovative ways.

We expect to continue our engagement of Hardlines Design Company and are pleased to recommend their services. You are welcome to contact me should you wish to further discuss our experience with Hardlines Design Company.

Sincerely,

Patrick L. Crow Sr.
Project Manager
Woodward Development Corporation

Woodward Development Corporation
8 West Vine Street, Mount Vernon, Ohio 43050
Phone (740) 392-6142 Fax (740) 392-7840
Email director@TheWoodward.org

CITY OF HEATH

Daniel L. Dupps
Mayor

Keith B. Alexander
Auditor

Richard S. Bindley
Director of Law

1287 Hebron Road • Heath, Ohio 43056 • (740) 522-1420 • Fax (740) 522-6324

November 3, 2004

To Whom It May Concern:

This letter of recommendation is in the behalf of the Hardlines Design Company (HDC). A positive and professional working relationship was established from the start of a very complex project located in the City of Heath.

Our task was to save, restore and operate the Davis-Shai House --- the oldest home in Heath (built in 1861). First, HDC, through their primary representative, Ms. Charissa Wang, completed a renovation master plan for the Davis-Shai House, which enabled us to obtain a $500,000 state grant from the Capital Improvement Fund.

Second, HDC provided full-service architectural and site design and construction administration services for the adaptive reuse of and addition to the Davis-Shai House into a community center.

Third, HDC was with the City of Heath every step of re-construction and was very creative in overcoming unexpected field conditions. Also, they were able to incorporate upgrades allowed by on-going financial donations from local residents and business leaders.

Fourth, HDC contributed to other urban planning and zoning issues within the City of Heath as we tackled other development and construction issues throughout our City. HDC was always willing to meet with the Mayor's Task Force for Community Development as the City approached other difficult planning issues.

Finally, HDC's accomplishments exceeded the City's expectations, and the Davis-Shai House renovation has been a complete success. I highly recommend HDC to anyone interested in getting a project done (1) on time, (2) within the budget and (3) accomplished in a professional and enjoyable manner.

If you have any questions regarding the recommendation, please feel free to call me at 740/522-1420 ext. 207.

Sincerely,

CITY OF HEATH

Daniel L. Dupps

Daniel L. Dupps
Mayor