



Cleveland Heights-University Heights City School District Cost and Constructability Consultant

August 19, 2011



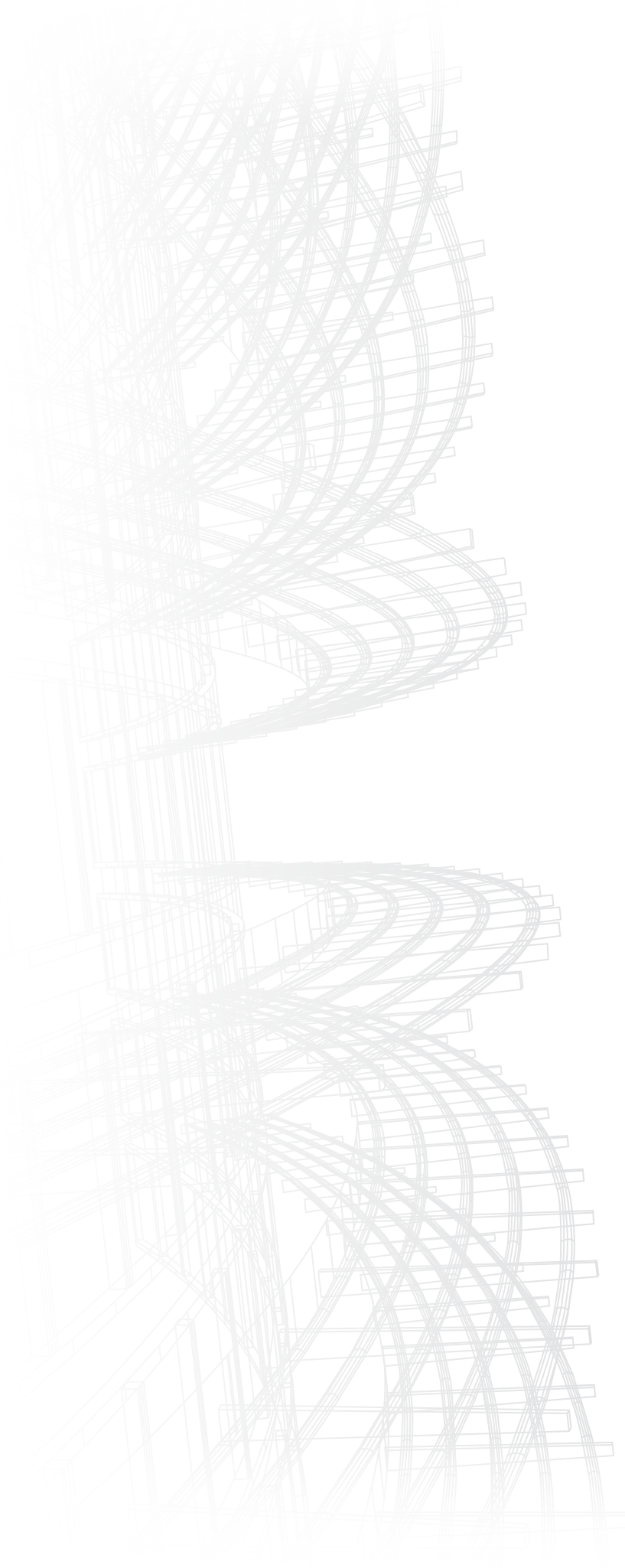


Cost and Constructability Consultant

August 19, 2011

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Hill International

Hill International, Inc.
5377 Lauby Road
North Canton, OH 44720
Tel: 330-497-5488
Fax: 330-497-5764
www.hillintl.com

August 19, 2011

Steven Zannoni
Project Management Consultants
127 Public Square, 39th Floor
Cleveland, OH 44114

**Subject: Request for Qualifications for Cleveland Heights-University Heights City School District
Cost and Constructability Consultant**

Dear Mr. Zannoni:

Hill International, Inc. (Hill), is pleased to submit our qualifications to provide Cleveland Heights-University Heights City School District (District) with Cost and Constructability Services for a series of district-wide facility master plans. We believe you will find that the strength of our assembled team, the depth and breadth of our K-12 education experience, and our local presence make Hill exceptionally well-qualified to deliver the District's project to a successful outcome. The specific strengths of our submittal include:

- **K-12 Experience.** Hill is an award-winning, nationally recognized school construction expert and has received Outstanding Industry recognition from the Construction Management Association of America (CMAA) on successful project delivery in the K-12 market for the past seven years straight. We have successfully completed over \$4.4 billion worth of K-12 experience nationwide in the past five years. Hill is currently working on K-12 projects for the Ohio School Facilities Commission (OSFC) including New Boston, Clay Local, Washington-Nile, and Edgerton Local School Districts. All projects will be LEED Silver Certified. In addition, Hill is currently providing program and construction management services for many urban school districts, including the School District of Philadelphia and the City of Newark, NJ, and previously worked with the District of Columbia Public Schools.
- **World's Largest Independent PM/CM Firm.** Hill, with more than 3,100 employees in 100 offices worldwide, is the global leader in providing program management and construction management services to public- and private-sector owners. *Engineering News Record* (ENR) recently ranked Hill as the largest independent PM/CM firm, and the 8th-largest overall. Hill is a publicly traded company listed on the New York Stock Exchange.
- **Program and Project Leadership.** **Vic Spinabelli, Jr., PE, LEED AP** will lead our team as Project Executive. With 28 years of engineering and construction experience, Mr. Spinabelli is responsible for the oversight of Hill's Ohio projects. Mr. Spinabelli will be responsible for the overall client satisfaction for this project. Working closely with Mr. Spinabelli will be **Todd Cooper, PE, LEED AP, AVS**, as Project Manager. With more than 13 years of experience delivering multi-million dollar



Mr. Steven Zannoni
Project Management Consultants
Page 2 of 2

projects, Mr. Cooper has led such education projects as the \$10 million OSFC-Edgerton project where he managed the state's comprehensive K-12 grade public school construction program. Additionally, Mr. Cooper oversees all pre-construction activity for the \$20 million Collins Career Center Renovation and the \$12 million Southern Local High School Addition. Together, Mr. Spinabelli and Mr. Cooper will lead the team's efforts in identifying the District's needs, and delivering on any and all task orders.

- **National Project Experience.** In complement to the local project experience that Hill can provide the District, our pool of talent has a national base of experience that is available to be drawn upon. Gerald Griffaton, PSP will lead a staff of estimators having provided financial construction expertise throughout the Country. Lance Rothstein, AIA will lead a team of constructability experts having national and regional school related project experience. This perspective, from having worked on numerous K-12 projects, will be invaluable to the District in developing a clear understanding of realistically managing construction costs.
- **Local Presence.** Work for the District will be managed from our North Canton office located at 5377 Lauby Road. Hill has three additional offices located in the state of Ohio. We understand that the needs of local school boards and school districts vary widely, whether the need to build new facilities is the result of explosive projected enrollment rates, or based upon replacement of decades old buildings to meet new education, safety, and technology standards. We are completely confident in our ability to deliver an exceptional project to the District.

We look forward to working with the District. Should you have any questions or require clarification about our submittal please feel free to contact me at (412) 595-8801 or at vicspinabelli@hillintl.com.

Sincerely,
HILL INTERNATIONAL, INC.

Vic Spinabelli, PE
Vice President



*Portsmouth West
Middle School
Portsmouth, OH*



*Southern Local
High School Addition
Racine, OH*



*New Boston
Local School District
New Boston, OH*



*Edgerton School Expansion
Edgerton, OH*

A.2 Company Overview

Profile

Hill International, Inc. (Hill) is a leading international construction consulting firm that provides program and project management, construction management, cost engineering and estimating, quality assurance, inspection, scheduling, claims analysis, innovative dispute resolution, and staff augmentation services to clients involved in major construction projects worldwide. Hill has the expertise and experience to manage major projects from concept to successful completion. We have successfully managed more than 5,000 projects with a total construction value over \$250 billion, and we are **the largest pure construction management firm in the country**. Hill is a publicly-traded company listed on the New York Stock Exchange.

Hill is also an international leader in construction claims management, considered to be **the largest construction claims firm in the world**. Founded in 1976 as a multi-disciplined management consulting firm that helps construction participants minimize risks, Hill has developed a reputation for our innovative approaches to preventing and resolving construction schedule and cost overruns. We offer public and private clients a full spectrum of construction-related services that enable them to complete construction on time and within budget while minimizing claims and other problems. Hill has helped our clients resolve more than 25,000 claims and disputes valued at more than \$100 billion.

Strong Ohio Presence

Hill maintains four offices in Ohio; addresses for these regional offices are provided below:

5377 Lauby Road, Suite 203
North Canton, OH 44720

134 W. South Boundary, Suite J
Perrysburg, OH 43551

929 Harrison Avenue, Suite 305
Columbus, OH 43215

633 Seventh Avenue
Portsmouth, OH 45662

Company Profile

Years of Existence **35 years in business
Founded in 1976**

Legal Form of Firm **Corporation
State of Delaware**

Location of Home Office **303 Lippincott Centre
Marlton, NJ 08053**

Hill Services

Program Management	Technology Management
Project Management	Claims Consulting
Construction Management	Litigation Support
Project Management Oversight	Expert Witness Testimony
Troubled Project Turnaround	Cost and Damages Assessment
Staff Augmentation	Delay and Disruption Analysis
Project Labor Agreements	Adjudication
Labor Compliance Management (MyLCM®)	Lender Advisory
Management Consulting	Risk Management
Commissioning	Forensic Accounting
Estimating/Cost Management	Fraud Investigation
	Project Neutral®

Organizational Structure

Hill is structured along two primary business lines: Project Management and Claims Management. The two business lines are further organized geographically, with worldwide headquarters in Marlton, NJ.

Personnel

Hill employs more than 3,000 professionals and support personnel in 100 offices in 35 countries worldwide. Our staff includes architects, engineers in all construction and building-related disciplines, planners, schedulers, estimators, value engineering specialists, construction managers worldwide, resident engineers, construction inspectors and a full range of technical and support staff to represent owners.

Industry Sectors Served

For over a quarter century, clients worldwide have selected Hill as consultants on their most complex projects. Each client has unique needs and goals, yet they choose Hill because they need experts who can prevent problems, minimize risks, and eliminate surprises. Our mission: to meet our clients' diverse needs in handling project risk and exceed their highest expectations.

Hill offers a full spectrum of services to assist our clients in successfully managing major capital, investment, and technical assistance programs, from initial feasibility studies, to planning and design, to procurement and construction, to start-up and operation, and finally, through implementation and contract close-out. Hill has served public and private sector clients in a wide range of sectors, including those listed below.

Buildings

Apartment/Housing Facilities
Commercial Office Buildings
Educational Facilities
Entertainment Facilities
Government Facilities
Hospital/Healthcare Facilities
Hotels, Casinos and Resorts
Religious Facilities
Retail Facilities
Sports Facilities
Theme Parks and Zoos

Transportation

Airports
Bridges

Ports and Harbors

Rail and Transit
Roads and Highways
Tunnels

Industrial and Process

Cement and Aggregates
Chemical
Pharmaceutical
Pulp and Paper
Steel and Metal

Environmental

Hazardous Waste
Sewerage and Solid Waste
Water Supply

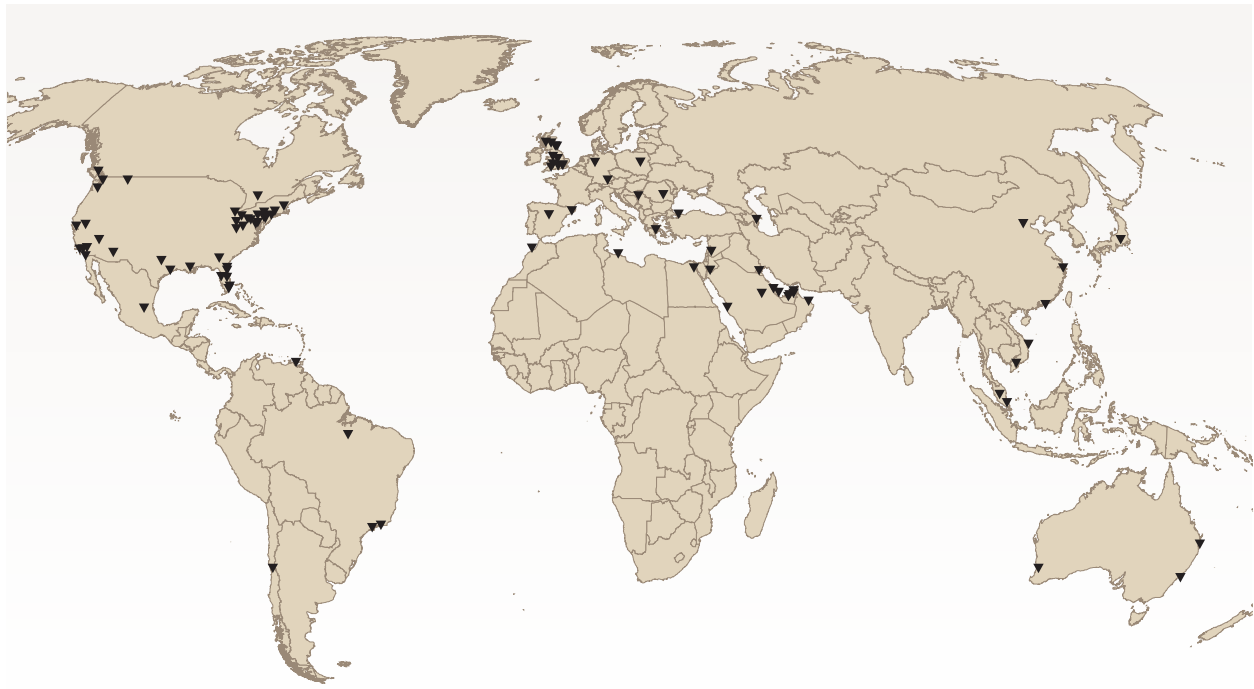
Manufacturing Facilities

Vehicles

Power

Cogeneration Facilities
Fossil Fuel Power Plants
Hydroelectric Facilities
Nuclear Power Plants
Renewable Energy
Waste-to-Energy Facilities

Telecommunications/ Technology



U.S. and Canada

Atlanta, GA
 Baltimore, MD
 Bellevue, WA
 Bensalem, PA
 Boston, MA
Columbus, OH
 Dallas, TX
 Danbury, CT
 Granite Bay, CA
 Houston, TX
 Irvine, CA
 Jacksonville, FL
 Las Vegas, NV
 Lemont Furnace, PA
 Los Angeles, CA
 Marlton, NJ
 (Headquarters)
 Miami, FL
 Montgomeryville, PA
 New Orleans, LA
 New York, NY
North Canton, OH
 Ontario, CA
 Orlando, FL
 Palm Beach Gardens, FL
 Palm Coast, FL

Perrysburg, OH

Philadelphia, PA
 Phoenix, AZ
 Pittsburgh, PA
 Portland, OR
Portsmouth, OH
 San Diego, CA
 San Ramon, CA
 Spokane, WA
 State College, PA
 Tampa, FL
 Toronto, Ontario (Canada)
 Vancouver, BC (Canada)
 Washington, DC

Latin America

Mexico City, Mexico
 Parauapebas, Brazil
 Rio de Janeiro, Brazil
 Santiago, Chile
 Sao Paulo, Brazil
 Trinidad and Tobago

Europe

Athens, Greece
 Baku, Azerbaijan

Barcelona, Spain
 Belgrade, Serbia
 Birmingham, UK
 Bristol, UK
 Bucharest, Romania
 Daresbury, England
 Dusseldorf, Germany
 Edinburgh, Scotland
 Exeter, UK
 Glasgow, Scotland
 Istanbul, Turkey
 Leeds, UK
 London, UK*
 Madrid, Spain
 Munich, Germany
 Teesside, UK
 Warsaw, Poland
 Winchester, UK

Middle East

Abu Dhabi, UAE*
 Aqaba, Jordan
 Damascus, Syria
 Doha, Qatar
 Dubai, UAE*
 Jeddah, Saudi Arabia
 Manama, Bahrain

Musqat, Oman
 Riyadh, Saudi Arabia
 Sharq, Kuwait

Africa

Cairo, Egypt
 Casablanca, Morocco
 Tripoli, Libya*

Asia

Beijing, China
 Danang City, Vietnam
 Ho Chi Min City, Vietnam
 Hong Kong, China
 Kuala Lumpur, Malaysia
 Shanghai, China
 Singapore
 Tokyo, Japan

Australia

Brisbane, Australia
 Perth, Australia
 Sydney, Australia

* Multiple Office Locations

A.3

Insurance Certificate



CERTIFICATE OF LIABILITY INSURANCE Page 1 of 1

DATE (MM/DD/YYYY)
03/31/2011

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 Willis of Pennsylvania, Inc. 26 Century Blvd. P. O. Box 305191 Nashville, TN 37230-5191	CONTACT NAME:		
	PHONE (A/C, NO. EXT):	877-945-7378	FAX (A/C, NO.): 888-467-2378
	E-MAIL ADDRESS:	certificates@willis.com	
INSURED Hill International, Inc. 303 Lippincott Centre Marlton, NJ 08053	INSURER(S) AFFORDING COVERAGE		NAIC#
	INSURER A:	Zurich American Insurance Company	16535-006
	INSURER B:	American Guarantee & Liability Insurance	26247-005
	INSURER C:	Steadfast Insurance Company	26387-001
	INSURER D:		
	INSURER E:		
	INSURER F:		

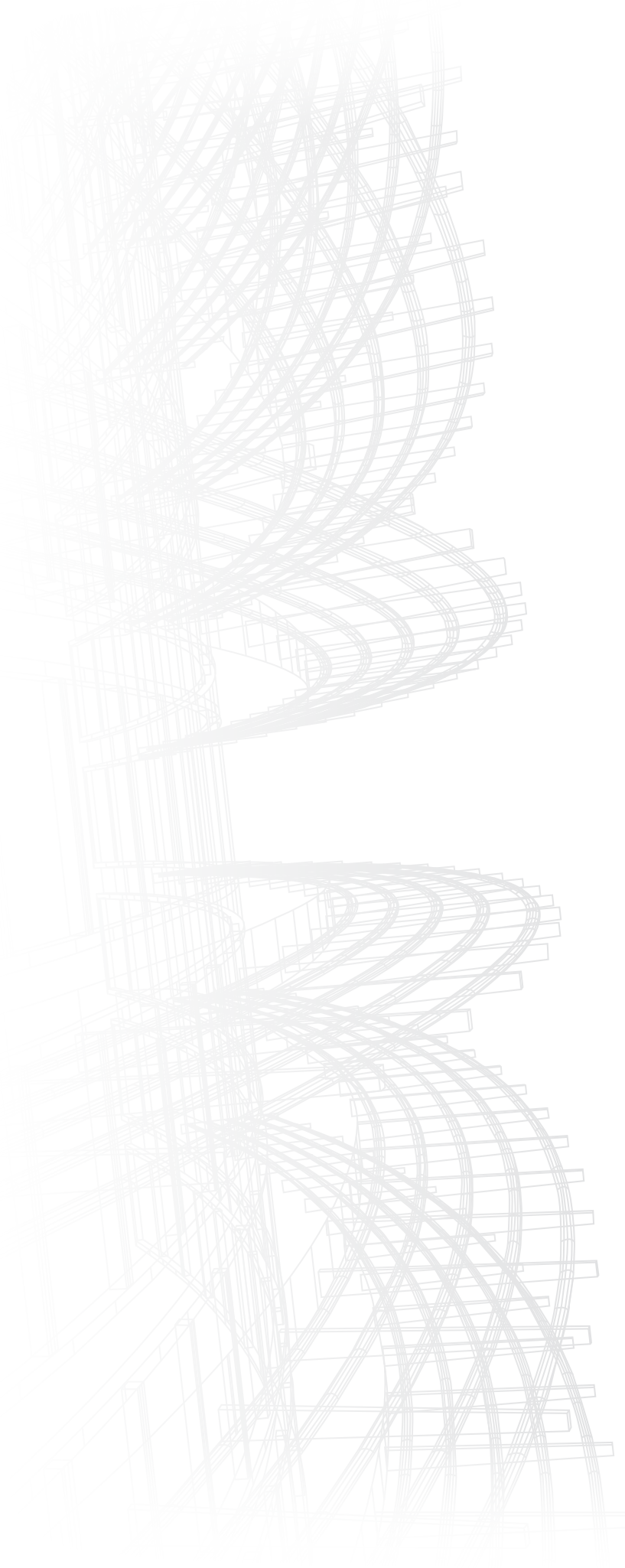
COVERAGES CERTIFICATE NUMBER: 15737862 REVISION NUMBER:

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	ADD'L INSRD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR			GLO488679401	4/1/2011	4/1/2012	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COM/OP AGG \$ 2,000,000
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS			BAP488679201	4/1/2011	4/1/2012	COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ 1,000,000 BODILY INJURY (Per accident) \$ 1,000,000 PROPERTY DAMAGE (Per accident) \$ 1,000,000
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			AUC488680901	4/1/2011	4/1/2012	EACH OCCURRENCE \$ 25,000,000 AGGREGATE \$ 25,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	WC488679500	4/1/2011	4/1/2012	<input checked="" type="checkbox"/> WC STATUTORY LIMITS E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
C	Professional Liability Architects & Engineers & Contractor's Pollution			EOC948235700	4/1/2011	4/1/2012	\$20,000,000. Each Claim \$20,000,000. Aggregate

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

CERTIFICATE HOLDER Evidence of Insurance	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



B.

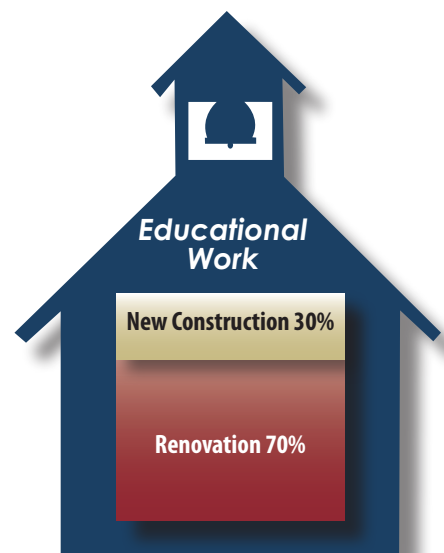
Project-Specific Information

B.1

Project Experience

Hill International is a global leader in managing construction risk, providing project management, construction claims and consulting services to a variety of clients including 19% of our work which is for educational clients. As trusted construction advisors to educators worldwide, Hill offers an experienced multidisciplinary team of construction experts who are committed to meeting the unique needs of educational owners at every level, and for providing added value to every project served.

Hill's resume of K-12 projects includes new construction, and modernization and addition projects on active and inactive campuses. In our educational markets, approximately 70% of our work is renovation and 30% new construction. This work has included owner's representation for program, project, and construction management; project controls management, including all phases of estimating, budget controls, and CPM schedule development and analysis; FF&E management, value engineering, constructability reviews, and claims avoidance. Hill has worked with school districts from the earliest study and planning phase, through the design, construction, and close-out phases, as well as provided support during the start-up, commissioning, and warranty periods.



In the last five years, Hill has completed over \$4.4 billion in K-12 school projects nationwide.

The needs of local school boards and school districts vary widely and Hill offers customized construction management services to meet each individual need. Some districts are faced with explosive projected enrollment rates and need to build new schools to accommodate the

demand of the student body. Others are faced with the daunting task of innovating decades-old buildings to meet new education, safety, and technology standards. With funding always being a factor, owners need to find ways to achieve their goals at reasonable costs.

K-12 educational facilities require highly experienced teams with a broad range of construction expertise to effectively manage capital improvement programs. Hill's comprehensive program management, project management, and construction management teams can manage multiple projects and become cost-effective extensions of your facilities management department. We recognize that communication among project participants is the key to project success. We coordinate with local communities, jurisdictions, and permitting agencies, and work with local contractors, suppliers, and design professionals. From the commencement of our services through the close-out of the construction contracts, Hill provides our clients a team of professionals that work in a cooperative spirit to deliver the project.

Hill's team, when beginning a school construction project, understands that the three legs of a successful project are:

- Control of the project schedule to assure completion of the project within the agreed upon milestone dates
- Control of the project budget to assure completion of the school within the project budget, with no cost overruns
- Quality control to assure that the school that was designed is the school that is delivered

Hill takes great pride in its ability to provide comprehensive construction management services that maintain the highest standards of quality while delivering projects on-time, within budget, and without surprises.

The following pages showcase projects of similar nature to the District project.

Testimonials

"The school district has had multiple constructions and renovations over the past fifteen years or so. Hill International personnel are always on site, recording keeping is timely and accurate, expertise with problems is evident and the personnel have good public relation skills with contractors and school employees. Again, I highly recommend Hill International as a highly professional and ethical company with the expertise and concern needed for projects."

Superintendent
Public School District, Construction and Renovation to
Elementary and High Schools West Portsmouth, OH

"This letter of appreciation is to commend and thank you for your outstanding efforts persistent work in keeping track of all our construction projects."

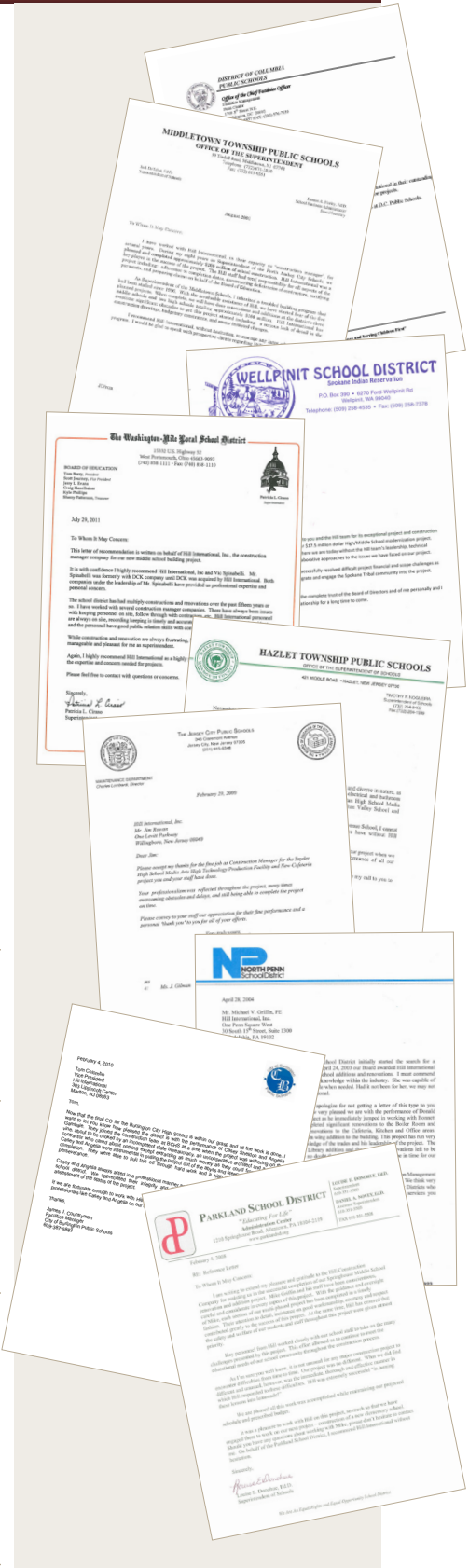
Chief Facilities Officer
Public School District, Remodeling and Renovation of School Facilities, Washington, DC

"Hill's attention to detail, insistence on good workmanship, courtesy and respect contributed greatly to the success of this project. At the same time, Hill has ensured that the safety and welfare of our students and staff throughout this project were given utmost priority."

Superintendent
Public School District, Renovation and Addition to Middle School, Allentown, PA

"...With the invaluable assistance of Hill, we have started four of the five planned projects. When complete, we will have done renovations and additions of the District's three middle schools and two high schools, totaling approximately \$100 million... Hill has overcome significant obstacles to get this project started including: a serious lack of detail in the construction drawings, budgetary constraints, and owner initiated changes. I recommend Hill, without hesitation, to manage any large school construction program."

Superintendent
Public School District, Renovations and Additions to Middle and High Schools, Leonardo, NJ



Clay Local School District

Portsmouth, OH



Client:
Ohio School Facilities
Commission
Rick Swart
Project Administrator
614-466-6290

Clay Local School District
Anthony Mantell
Superintendent
740-354-6645

Service:
Construction Management

Total Project Value:
\$25 Million

Start Date:
2010

Completion Date:
2011

Hill International is serving as the Construction Manager for the Ohio School Facilities Commission (OSFC) and the Clay Local School District. This project will be pursuing LEED Silver certification.

The complete project consists of the construction of a new PK-12 facility with partial demolition to the existing high school with renovation. Also included is the demolition of two elementary schools. The structure of the new PK-12 facility consists of load bearing concrete masonry units and steel roof joists. The classroom wing includes two-story high curtainwall windows that span floor to ceiling in every classroom. The HVAC system is a hydronic piping system with chilled beams utilized in the classrooms. By constructing this facility, the District is able to combine multiple buildings into one central location.

This project is part of the OSFC's \$5 billion statewide school construction program. Hill's role in the project is to serve as Construction Manager for all project phases. Hill manages the project's budget and schedule during design as well as reviewing the design to ensure that it is compliant with state design standards and constructible. During construction, Hill is responsible for contract administration, site management, quality management, and scheduling. Finally, Hill is responsible for closing out the project, ensuring that it is commissioned properly, and that all warranty issues are resolved.

Collins Career Center Renovation

Chesapeake, OH



Hill International is serving as the Construction Manager for the Ohio School Facilities Commission (OSFC) and the Lawrence County Joint Vocational School District for the renovation of the Collins Career Center in Chesapeake, Ohio. Collins is a 125,000 SF vocational high school located in rural Southern Ohio that was constructed in the 1970's. The project will include reprogramming of much of the building which will require the complete demolition of all interior walls finishes. Renovation will be done to academic spaces as well as low bay and high bay career technical spaces. The project will also include 10,000 SF of new additions to the building and a new adult education center that will be utilized for swing space during construction. The site will be reconfigured to improve traffic flow and safety and a new waste water treatment plant and greenhouse will also be constructed. The project will be pursuing LEED Silver certification.

The most challenging aspect of the project will be that this renovation project will need to be completed while still allowing classes to take place in the building for over two years. This will be accomplished using a phased construction approach and on and off-site swing space.

This project is part of the OSFC's \$5 billion statewide school construction program. Hill's role in the project is to serve as Construction Manager for all project phases. Hill will manage the project's budget and schedule during design as well as reviewing the design to ensure that it is compliant with state design standards and constructible. During construction, Hill is responsible for contract administration, site management, quality management, and scheduling. Finally, Hill is responsible for closing out the project, ensuring that it is commissioned properly and that all warranty issues are resolved.

Client:

Ohio School Facilities
Commission
Rick Swart
Project Administrator
614-466-6290

Lawrence County Joint
Vocational School District
Steve Dodgion
Superintendent
740-867-6641, x.201

Service:

Construction Management

Total Project Value:

\$20.25 Million

Start Date:

2012

Completion Date:

2014

New Boston Local School District

New Boston, OH



Hill International is serving as the Construction Manager for the Ohio School Facilities Commission (OSFC) and the New Boston Local School District for the new, 83,000 SF PK-12 school in New Boston, Ohio. The project will be pursuing LEED Silver certification.

The facility structure is comprised of insulated concrete formed walls on the exterior for improved efficiency. The site will require multiple retaining walls due to its location. The site is located in a flood plain at the foot of a large hill. Retaining walls are required at the foot of the hill and along the large retention ponds needed for water displacement.

This project is part of the OSFC's \$5 billion statewide school construction program. Hill's role in the project is to serve as Construction Manager for all project phases. Hill manages the project's budget and schedule during design as well as reviewing the design to ensure that it is compliant with state design standards and constructible. During construction, Hill is responsible for contract administration, site management, quality management, and scheduling. Finally, Hill is responsible for closing out the project, ensuring that it is commissioned properly, and that all warranty issues are resolved.

Client:

Ohio School Facilities
Commission
Rick Swart
Project Administrator
614-466-6290

New Boston Local School
District
Mike Staggs
Superintendent
740-456-4559

Service:

Construction Management

Total Project Value:

\$19.2 Million

Start Date:

2011

Completion Date:

2012

Edgerton School Expansion

Edgerton, OH



Client:
Ohio School Facilities
Commission
Rick Swart
Project Administrator
614-466-6290

Edgerton Local School
District
Andy Morr
Superintendent
419-298-2331

Service:
Construction Management

Total Project Value:
\$18.6 Million

Start Date:
2010

Completion Date:
2011

Hill was hired to provide Construction Management services for the PK-6 expansion of the existing high school so that all grades could be housed in the same building. The expansion was partially funded by the Ohio School Facilities Commission and partially by local fund of the District.

The goal was for the project to be LEED Silver certified, but during construction and design the project is now striving for LEED Gold certification. The expansion is approximately 50,000 SF that includes two stories with the upstairs holding grades 5 and 6. A two story multipurpose room was also part of the addition along with a greenhouse and warming kitchen.

The new elementary expansion will also hold the offices of the superintendent and school district staff. State-of-the-art technology and computers throughout the building will bring teaching in the classroom to a new level with interactive whiteboards and hands-on teaching tools for all students. The building was designed with plenty of windows to bring day lighting in for the students because studies have shown that children learn better with natural light in the classrooms. In addition, each room has their own temperature control system so the temperatures can be adjusted on the needs of each individual classroom.

Portsmouth West Middle School

Portsmouth, OH



Client:
Ohio School Facilities
Commission
Rick Swart
Project Administrator
614-466-6290

Washington-Nile Local
School District
Jeff Stricklett
Superintendent
740-858-1111

Service:
Construction Management

Total Project Value:
\$17 Million

Start Date:
2010

Completion Date:
2011

Hill International is serving as the Construction Manager for the Ohio School Facilities Commission (OSFC) and the Washington-Nile Local School District for the new Portsmouth West Middle School (PWMS). The project will be pursuing LEED Silver certification. PWMS boasts an impressive natural light capturing system. The facility includes large windows, roof monitors, solar tubes, and a state-of-the-art lighting controls system. The middle school was built on an existing campus that already housed the elementary and high school. By combining all schools on one campus it fulfilled a long-term goal of the District.

This project is part of the OSFC's \$5 billion statewide school construction program. Hill's role in the project is to serve as Construction Manager for all project phases. Hill manages the project's budget and schedule during design as well as reviewing the design to ensure that it is compliant with state design standards and constructible. During construction, Hill is responsible for contract administration, site management, quality management, and scheduling. Finally, Hill is responsible for closing out the project, ensuring that it is commissioned properly, and that all warranty issues are resolved.

Southern Local High School Addition

Racine, OH



Hill International is serving as the Construction Manager for the Ohio School Facilities Commission (OSFC) and the Southern Local School District for the construction of the Southern Local High School Addition in Racine, Ohio. This project will construct a 50,000 SF two-story high school addition on to the elementary school that was constructed in the 1990's. The addition will include a 9,000 SF competition gymnasium, a new consolidated front entry/administration area for the finished K-12 building, and a new career technology vo-ag space. Once the existing high school is demolished, the entire site will be reconfigured to improve site safety and access to the buildings. The project will be pursuing LEED silver certification.

The greatest challenge on the project is that the new addition is going to be constructed between the elementary school and the current high school, while both buildings are operational. This will require careful planning to ensure that the safety and operations of the existing buildings are not compromised.

This project is part of the OSFC's \$5 billion statewide school construction program. Hill's role in the project is to serve as Construction Manager for all project phases. Hill will manage the project's budget and schedule during design, as well as reviewing the design to ensure that it is compliant with state design standards and constructible. During construction, Hill is responsible for contract administration, site management, quality management, and scheduling. Finally, Hill is responsible for closing out the project, ensuring that it is commissioned properly, and that all warranty issues are resolved.

Client:

Ohio School Facilities
Commission
Rick Swart
Project Administrator
614-466-6290

Southern Local
School District
Anthony Deem
Superintendent
740-949-2669

Service:

Construction Management

Total Project Value:

\$12.5 Million

Start Date:

2012

Completion Date:

2013

New Jersey Schools Construction and Renovation Program

Trenton, NJ



Burlington City High School



Mott Elementary School



Wilbur Watts School



Wilson Elementary School

Client:
New Jersey Schools
Development Authority
Joseph VanStory
Project Officer
609-943-5952

Services:
Construction Management
Estimating
Project Management

Total Project Value:
\$436 Million

Start Date:
2002

Completion Date:
2011

The New Jersey Schools Development Authority (NJSDA, formerly NJSCC) is undertaking a \$12 billion program to rebuild schools throughout the State of New Jersey. In September 2002, Hill International was selected as the Project Management firm for Region 6, which includes 15 school projects, worth \$350 million, in Trenton, Burlington City, and Pemberton Township. Hill is responsible for master planning through construction management. Hill's role later was expanded to include additional school projects in Newark, Camden, and other cities throughout the State.

For each of the projects, Hill reviewed the Facility Master Plans for each district and made recommendations regarding program budgets and schedules. During the pre-construction phase, we solicited design consultants and managed their work flow (including performing design and constructability reviews), prepared construction cost estimates, and updated the program budget and schedule. During the construction phase of each educational facility, Hill is responsible for providing full on-site construction management to assure that each project is built within the project schedule and budget.

As the Program Management Firm (PMF), Hill's responsibilities also include providing a community outreach program to maximize participation of

New Jersey Schools Construction and Renovation Program

local small, minority- and women-owned business enterprises (M/WBEs). Hill is also responsible for site selection and acquisition and overall program value engineering studies.

On this program, as on our other assignments, Hill uses the latest management information system tools including *Primavera P3e/c*, *Expedition*, and *Prime Contract*. These web-based MIS applications allow all key program personnel, including the Owner, to access overall program or individual project data including schedules, budgets, and all key correspondence and design plans.

The work in Region 6, the largest PMF contract issued by the NJSDA, features the full renovation and several additions to Trenton Central High School (\$100 million). The contract also includes conversion of historic buildings at the original Roebling steel facility into a new pre-K through Grade 8 elementary school—a design which received the New Jersey AIA Silver Design Award in 2002.

Council Rock High School North Renovation

Newtown, PA



Hill International managed the renovation of the 40-year-old Council Rock High School North, located in Newtown, Pennsylvania. Council Rock North is one of two high schools in this rapidly growing suburb, located north of Philadelphia. The project included phased, multi-prime-contract renovations and additions to the 349,800 SF school, which serves students in grades 9 through 12.

The project included renovation of the building systems, construction of a new main entrance, and various site upgrades. Hill International's services for this project included design management, bid and award management, management of all permitting and code enforcement activities, and full-time, on-site construction management.

The first phase of the project, which involved replacing the school's chiller plant, and the second phase, involving auditorium renovations and construction of an enclosed link connecting two wings of the building, were completed first. The subsequent third phase involved the complete renovation of the main school building wings and construction of a new main entrance. Renovations

Client:

Council Rock School District
Mark Klein
Superintendent
215-944-1042

Services:

Construction Management
Estimating
Project Management

Total Project Value:

\$26.5 Million

Start Date:

2001

Completion Date:

2005

Awards:

2006 Best School Project
Under \$10 Million award,
Mid-Atlantic Chapter,
Construction Management
Association of America
2005 K-12 Project of the
Year award, Mid-Atlantic
Construction magazine

Quote:

"The efforts of Hill International personnel both on site and in the office have been impressive. The coordination between the contractors and the school staff has been excellent due the efforts of your personnel."
*Thomas C. Ames, PE
Supervisor of
Operational Services
Council Rock School District*

Council Rock High School North Renovation

included architectural finishes, site work, asbestos abatement, select roofing improvements, and upgrades to the mechanical, electrical, plumbing, and HVAC systems.

Hands-on construction management and close coordination of work were keys to the success of the project. The school's two academic wings, both three stories, were renovated one floor at a time while maintaining full occupancy of the remaining two floors and the other adjacent wing. Central areas, such as the cafeteria, kitchen, library, gym, locker rooms and pool, were renovated over successive summers when school was not in session.

Springhouse Middle School

Allentown, PA



Parkland School District determined that renovations and a major addition to the Springhouse Middle School were required to accommodate continuing student population growth. The 75,000 SF addition adds new classrooms, an auxiliary gym, and a new band room. Renovations to the existing 130,000 SF middle school include improvements to the administration area, guidance, library, arts, computer lab, and music room; an expanded cafeteria with food court and locker rooms; new sprinkler system, reworked ductwork, and air handling systems; new fire alarm, clock, and public address systems; electrical distribution upgrades; communication and data infrastructure; toilet room ADA improvements; expanded parking; and a new loop road. The sequencing of work was coordinated around a busy school calendar and completion milestones were tied to an anticipated increase in student population.

Hill provided full pre-construction services which include design and constructability reviews, cost estimating, value engineering, and detailed phasing analysis. Hill developed the contracting strategy of eight prime contracts: general construction, HVAC, plumbing, fire protection, electrical, technology, food service, and asbestos abatement. Hill is an active participant in pre-construction, providing the District and design team with planning and design strategy advice and counsel. Hill developed the project master schedule and continues to track and maintain it. During construction, Hill will provide full-time, on-site project management services.

The addition is a masonry bearing wall with pre-cast concrete plank structure at most areas and with steel bar joists for the auxiliary gym and band room.

Client:

Parkland School District
Dr. Louise Donohue
Superintendent
610-351-5500

Services:

Construction Management
Estimating
Project Management

Total Project Value:

\$20.6 Million

Start Date:

2004

Completion Date:

2007

Quote:

"As you know we went through a very involved interview process prior to selecting Hill as our CM for this job. We have not been disappointed as you have lived up to and exceeded our expectations. The SMS project looks just great; the compliments have been rolling in now that the teachers are back at work."

"Hill's attention to detail, insistence on good workmanship, courtesy and respect contributed greatly to the success of this project. At the same time, Hill has ensured that the safety and welfare of our students and staff throughout this project were given utmost priority."
*Dr. Louise Donohue,
Superintendent
Parkland School District*

Hill and the design team worked collaboratively to establish an economic and market availability study to determine the structural system that could meet the schedule demands and budget.

Hill established a project controls system utilizing Primavera Expedition that enables real-time management of the project with access and use by the entire team.

Woodland Elementary School

Norristown, PA



Hill provided full construction management services from design through construction for the Woodland Elementary School. The overcrowded school had a number of temporary modular classrooms, insecure administration area and insufficient cafeteria and multi-purpose space. Further, the District had no other space that could be utilized for required school functions, therefore the school was occupied and fully functional throughout construction.

Hill was involved extensively during the design phase providing master scheduling, design document reviews, cost estimating, and working with the district and designers to develop phasing plans and contracting strategies.

The Woodland Elementary School project, as finally designed, included major additions for classrooms, a gymnasium/ cafeteria/ multi-purpose room and administration space totalling 21,200 SF. A truly temporary portable classroom facility was constructed to provide swing-space so the new additions and renovations to all areas could be completed in phase. In addition, extensive sitework needed to be completed for storm management and additional parking. The HVAC system utilized an innovative geothermal/ heat pump system featuring an extensive system of deep wells.

The entire 64,000 SF school was renovated with new infrastructure including a complete fire protection sprinkler system, expanded toilet rooms, new electrical distribution, and telephone/data systems. The kitchen was also renovated during the summer months and was ready for school opening in the fall. The project – including the numerous phases, moves and temporary measures – was completed as scheduled. All of the temporary modular and portable classrooms have been removed and the space they occupied returned to hard surface play area.

Client:

Methacton School District
Timothy Quinn
Superintendent
610-489-5000

Services:

Construction Management

Total Project Value:

\$14.6 Million

Start Date:

2006

Completion Date:

2009

Awards:

2010 Project Achievement
Award, Mid-Atlantic
Chapter, Construction
Management Association
of America

Gwyn-Nor Elementary School Renovation

Upper Gwynedd Township, PA



Hill International was selected by the North Penn School District Board of Education to provide Construction Management services for the multi-prime contract renovations and additions to the existing 52,635 SF Gwyn-Nor Elementary School.

Building Alterations and Renovations included:

- Alterations to the locker rooms adjacent to the gymnasium involving reconfiguration of the locker rooms and the addition of public toilet rooms that are accessible in conformance with the Americans with Disabilities Act
- Alterations to the cafeteria kitchen to increase the amount of refrigerator/freezer capacity and improve the serving line circulation pattern
- Alterations to the space occupied by the present library to create student support spaces and a conference room
- Renovations to the building to replace windows, replace finish materials in toilet rooms, paint the building interior, and renovations to the plumbing, heating/ventilating, electrical and fire alarm systems

Building Expansion included:

- Construction of a 680 SF addition to the cafeteria provided 42 additional seats at tables
- Construction of an 8,570 SF addition for a larger library
- Construction of a 12,275 SF building addition for seven new classrooms, a music classroom, a gifted program/speech program classroom and student rest rooms

Client:

North Penn School District
John S. Strobel
Manager of Support Services
215-368-4000, x.1050

Service:

Construction Management

Total Project Value:

\$5.6 Million

Start Date:

2003

Completion Date:

2004

Awards:

2005, Best School Project with a Construction Value Less Than \$10 Million, Mid-Atlantic Chapter, Construction Management Association of America

Quote:

"We think very highly of your professional services and don't hesitate to recommend Hill to other Districts who ask us for references for Construction Managers. Thank you for the excellent service you provide to the North Penn School District."

*John S. Strobel,
Manager of Support Services
North Penn School District*

Tilden Elementary Center

Hamburg, PA



Hill provided comprehensive project management services during the design, bid/award, and construction phases for a new proto-typical 700 student, 110,000 SF K-5 school. The innovative design had three classroom wings around a central multipurpose and Library core in a cross shape with the fourth side of the core connection to the Administration, Cafeteria/Auditorium, Gym, Lobby, and Main Entrance area.

Hill's pre-construction services included cost estimating, master scheduling, design reviews, development of the detailed construction schedule, and with the architect and district solicitor, the general conditions, documents, and bid analysis. When construction began, Hill provided the full time, on-site owner's representative construction manager.

Additionally, Hill provided scheduling services for all five prime contractors including the detailed Primavera P3 schedule, and month updates of the cost loaded schedule and generation of the contractors' pay requests.

The Tilden Elementary Center included several unique characteristics that presented unique challenges to the project team. First, the entire site had to be re-graded to accommodate the footprint of the new building. As with any major site work, all erosion and sediment controls systems had to be in place

Client:

Hamburg Area School District
Mark Fretz
Facilities Manager
610-562-2241, x. 732

Service:

Construction Management

Total Project Value:

\$24.3 Million

Start Date:

2005

Completion Date:

2008

Awards:

2009 Best School Project
Over \$10 Million,
Mid-Atlantic Chapter,
Construction Management
Association of America

Quote:

"It's because of Hill's help that we have managed to wage a positive public relations campaign in a time when most school districts are under fire by taxpayers for approving new multi-million dollar building projects. False and negative rumors that would have undermined the importance of this building project were avoided altogether because of Hill's cooperation."

*Paul K. Havanko
Library Media Specialist/
Public Relations
Hamburg Area
School District*

Tilden Elementary Center

prior before grading could begin. A major storm water retention basin also had to be constructed on-site to handle the majority of the storm water drainage, which was extensive.

The most unique feature about the Tilden Elementary Center was the use of insulated pre-cast concrete panels with thin brick veneer for the exterior wall system. Also, the wall system for the stair tower were made of a solid pre-cast concrete panel and the classroom floors were made of pre-cast concrete floor planks.

The project owner, the Hamburg Area School District, required continuous communication throughout the project, and relied upon Hill to manage daily information. Hill managed the myriad of project information using tailored Contract Manager software and provided limited access to the all of the documentation it contained. The complex nature of the project resulted in a tremendous amount of information that had to be disseminated by Hill, to all relevant project team members on a timely basis.

The school district also required the use of quality control procedures throughout the project. Hill, as construction manager, continuously reviewed documents, systems, materials, techniques, and workmanship to determine whether the contractors conformed to the plans, specifications, applicable standards, and project requirements.



CM for New York City Schools

Brooklyn, NY



In 1998, in an urgent need to bring New York City's public schools to a state of good repair, the New York City Department of Design and Construction (NYC DDC) embarked on a \$1.3 billion capital program to rehabilitate the city's schools. The high-visibility program called for aggressive schedules, contract completion incentives and penalties, limited swing space, and a sensitive educational community.

Hill International provided a type of construction management service specific to the DDC called CM-Build: Hill acted as an agent of the owner, but held the contracts. We also provided professional staff to the DDC for such various assignments as design review, building condition surveys, estimating, scheduling, and special studies and assignments.

To accomplish this multi-site work in different boroughs of New York City, Hill maintained a dedicated work force which expanded during the summer months to include site-specific senior inspectors who traveled from site to site, and project managers who reviewed and processed shop drawings and sample contracts, payment requisitions, change orders, and project close-outs during winter months.

Client:

New York City Department
of Design and Construction
Irene Alpert
Deputy Director - Cultural
Unit
718-391-1033

Services:

Construction Management
Estimating

Total Project Value:

\$32.7 Million

Start Date:

1998

Completion Date:

2004

Quote:

"Thank you for the professionalism displayed by your staff over the course of our Summer 2000 Phase I construction project. It is never an easy task to complete a construction project and operate a summer instructional program of over 1300 students... I believe that they were greatly responsible for the success of this project."

Pete Devlin

*Assistant Principal/
Organization*

*Ft. Hamilton High School
Board of Education of
the City of New York*

Safety and security considerations have included alternate means of public access and egress while work is in progress, alterations to existing security systems during construction operations, and watchmen services during off hours.

Hill established an office in Long Island City and was initially assigned 11 public schools located in Manhattan and Brooklyn. The phased plan called for masonry parapets and roofing to be repaired first (Phase I), followed by window repair and replacement (Phase II). With the award of a second contract, our scope was eventually increased to more than 20 schools.

As Construction Manager, Hill: set up the project organization and established the new office; developed systems and procedures compliant with DDC contract administration; conducted design reviews and construction reviews; prepared estimates and schedules; developed contract documents to include a complete scope of work and to assure constructability; solicited and prequalified subcontractors; developed bid packages, solicited bids, and evaluated offers; and selected subcontractors with DDC approval and awarded the contracts.

Hill started construction on the first 11 schools in late spring 1999, and all work was completed before school reopened that fall. The last project under the second contract--window replacement at PS 203--was completed by the start of the new school year in September 2003.

All projects were delivered on schedule and within budget, and as a result Hill was recently awarded a third contract under the program. Key features and services of the contract included: safety; logistics and phasing; community relations; limited swing space; detailed construction documentation; quality and cost control; and management of the design schedule and submittals.

Skyview Upper Elementary School & Arcola Intermediate School Renovation

Norristown, PA



Client:
Methacton School District
William Jacobe
Supervisor of Facilities
Operations
610-489-5000, x.3040

Service:
Construction Management

Total Project Value:
\$32.6 Million

Start Date:
2006

Completion Date:
2010

Hill provided full construction management services from design through construction for two schools, Skyview Upper Elementary and Arcola Intermediate Schools.

The Skyview Upper Elementary School project includes a new 90,000 SF building addition to the existing Arcola Intermediate School to provide for a 5-6 grade school program.

Hill worked closely with the District to determine the right approach to their desire to have Methacton's existing elementary school changed from K-5 to K-4 for better educational programming and to relieve crowded conditions. The concept was to have a single 5-6 facility for all upper elementary students.

As several ideas were explored, Hill provided cost estimating and feasibility support. A new building on the existing Arcola Intermediate School site, and a new building on a new site eventually gave way to the innovative solution of adding to the existing building and having two separate schools in the same physical building. This allowed excess space in the existing 6-8 intermediate school to be utilized in the new 5-6 building. By staggering start and closing time and creating a physical barrier (locked doors) at appropriate locations, the two schools coexist in the same building. Additional savings in operations were realized because while there are separate cafeterias for each school there is only one kitchen serving both and located between the cafeterias.

Skyview Upper Elementary School & Arcola Intermediate School Renovation

The new building addition includes classrooms, a multipurpose gym, media center, separate entrance, and all the usual administration offices – completely separate and distinct from the Arcola, 7-8 Administration office (that were renovated). The addition included an innovative, separate new geothermal HVAC system that is sustainable and reduced operating costs. Extensive site work included increased parking with renovated and new roads and new traffic flow within the site and at the street – including a new traffic signal. Site work also included the reconstruction of athletic fields for football, baseball, softball, soccer, and field hockey. Site redesign allowed for the addition of one field for a total of eight athletic fields.

The project also included renovations to the existing school consisting of a completely renovated kitchen and café spaces – successfully completed as scheduled during the summer break of 2007, as well as science classrooms, administration, and guidance areas that were completed in early 2010.

Matawan-Aberdeen Schools Program

Matawan, NJ



Client:

Matawan-Aberdeen
Regional Board of
Education
Bruce Quinn
(former Matawan
Superintendent, currently
Project Administrator
for Monmouth Ocean
Educational Services
Commission)
732-695-7829

Services:

Construction Management
Estimating
Program Management

Total Project Value:

\$36.9 Million

Start Date:

2002

Completion Date:

2006

Awards:

2005, Outstanding Design
for Matawan Regional High
School, *American School
& University Magazine*

Matawan Borough and Aberdeen Township, in Monmouth County, New Jersey, are traditional communities, anchored by a New Jersey Transit rail station and the fourth Levittown community. By 2002, the Matawan-Aberdeen Regional School District—a full, pre-kindergarten-through-twelfth-grade school district with seven buildings dating from 1929 to 1970—needed to correct numerous health and safety deficiencies and to expand academic space at the middle and high schools.

Hill International provided construction management services from the pre-construction phase through the construction phase. During pre-construction, Hill helped the Board of Education interview and select an architect. Hill also established an overall program schedule, evaluated project budgets, prepared constructability reviews and construction cost estimates, and provided general program management support. Hill worked with the design consultants, CRA Architects, to divide the work into nine bid packages to help generate the lowest costs. Hill also developed bidder interest and, with the architect, evaluated bids and made award recommendations to the Board of Education.

The scopes of work included roof and window replacements at six buildings, HVAC upgrades at two buildings, new technology systems throughout the

Matawan-Aberdeen Schools Program

District including new LANs in each school, and a private fiber optic network connecting all of the buildings. The middle school received four additions for new classrooms, science labs, and a second gymnasium. The high school additions included classrooms, science labs, and a greenhouse. One elementary school had a parking lot added and driveways reconfigured to provide a parent drop-off and pick-up area.

Roof replacement work was broken into three bidding packages:

- 135,000 SF at four elementary schools
- 119,000 SF at the high school
- 74,000 SF at the middle school as part of the renovation package

The District selected the flex-modified bitumen system, with a white cap sheet.

During construction, Hill managed the prime contractor of each bid package. This oversight included monitoring contractor submittals, RFIs, change orders, project and phasing schedules, and budget and cost controls; monitoring each contractor conformance to project specifications; and reviewing applications for payment, monthly reports, and project documentation. Hill also prepared a monthly program status report to the Board of Education and presented a quarterly report for presentation to the Board.

Ohio Turnpike Commission Service Plaza Reconstruction Program

Various Locations, OH



The Ohio Turnpike Commission (OTC) has undertaken a program to reconstruct each of its eight sets of Service Plazas with new, larger, state-of-the-art facilities at a total cost of well over \$200 million. Each project includes the simultaneous reconstruction of two facilities (one eastbound and one westbound). Out of the seven that have been reconstructed, Hill International has served as the Construction Manager for the last four.

Each project included demolition of the existing plazas, remediation of the site to remove any petroleum contaminated soil, redevelopment of additional property purchased by OTC for site expansion, and construction of the new buildings and site improvements including fueling canopies and a new fueling system. The project was constructed under a four Prime Contractor division of work.

The facilities include numerous high-end elements including custom fiberglass reinforced acoustical ceiling panels, terrazzo flooring, and a rotunda or barrel vaulted food court roof with standing seam copper roofing. The facilities were also designed with future expansion in mind, allowing for easy expansion of the vendor spaces or parking areas as demand dictates.

Client:

Ohio Turnpike Commission
Daniel Castrigano, PE
Chief Engineer
440-234-2081

Service:

Construction Management

Total Project Value:

Middle Ridge/Vermillion
Valley - \$25 Million

Blue Heron/Wyandot -
\$25 Million

Indian Meadow/Tiffin
River - \$30 Million

Mahoning Valley/Glacier
Hills - \$30 Million

Start Date:

Middle Ridge/Vermillion
Valley - 2001

Blue Heron/Wyandot - 2004

Indian Meadow/Tiffin
River - 2010

Mahoning Valley/Glacier
Hills - 2011

Completion Date:

Middle Ridge/Vermillion
Valley - 2002

Blue Heron/Wyandot - 2005

Indian Meadow/Tiffin
River - 2011

Mahoning Valley/Glacier
Hills - 2012

Ohio Turnpike Commission Service Plaza Reconstruction Program

Hill has also participated in the last three projects during the pre-construction phase, a first for the Service Plaza Reconstruction Program. Through our in depth constructability reviews, we have been able to greatly reduce the number of construction bulletins and change order requests that have been issued during the construction phase. We also coordinated the bid package development, created all required bid addendum, reviewed the project estimate, and performed the bid evaluation during the pre-construction phase.



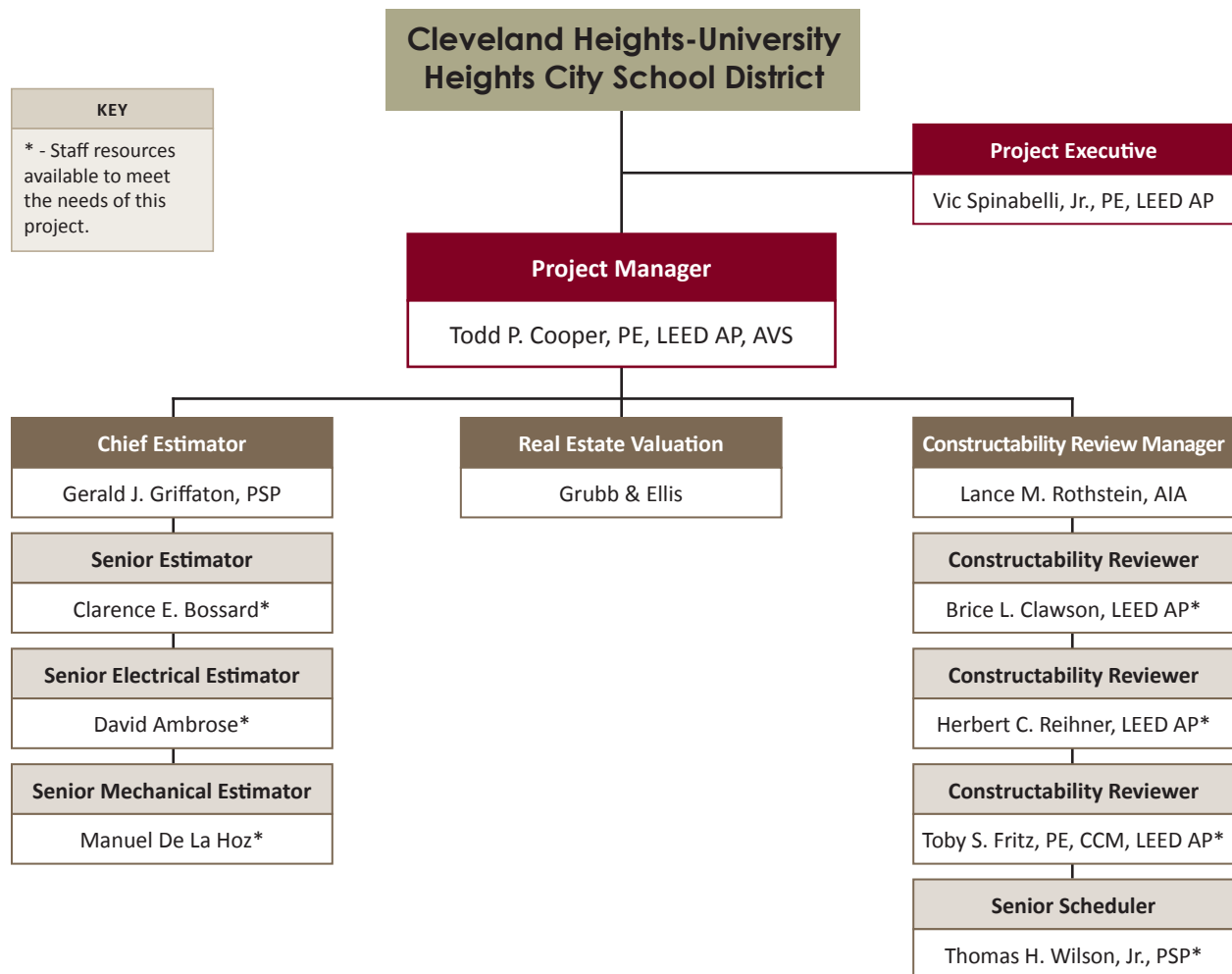
During the construction phase responsibilities included project management, project controls, contract administration, scheduling, site management, inspection, and testing supervision. Hill also acts as OFC's on-site representative and liaison between the Architect, local agencies, and the public.

B.2 Project Team and Organization

In preparing our qualifications, Hill has carefully selected a representative group of our most experienced and seasoned project management professionals for your review. These professionals are immediately available. Hill employs more than 25 skilled professionals of various disciplines in the state of Ohio. As the result of our strong presence within the state of Ohio, all of these resources are available to support any efforts undertaken by the District. The staff proposed includes the Project Executive, Project Manager, Chief Estimator and estimating staff, and Constructability Review Manager and appropriate staff. We have ample resources to augment this team should the need arise, however we believe that this is the right size staff for this project.

Resumes of our proposed personnel appear on the following pages. For our key personnel, we have included a description of their duties and responsibilities for their proposed role, as well as proposed time commitment to this project.

Organizational Chart



Vic Spinabelli, Jr., PE, LEED AP

Project Executive

As Project Executive, Vic Spinabelli will lead the Hill team. He will maintain established operational guidelines, monitor team progress, and guide the team on contract issues. He will be at the top tier of the partnering decision resolution matrix. Essentially, Mr. Spinabelli's role is the assurance of client satisfaction and access to executive management within the Hill organization. Mr. Spinabelli's time commitment to this project role is deemed part-time and will be in sync with the District's management objectives, as agreed upon at the outset of the project.

Mr. Spinabelli is a Professional Engineer with over 28 years of engineering and construction experience. As Vice President, he has day-to-day responsibility for the oversight of projects in the Pennsylvania, Ohio and Florida regions as well as responsibility for strategic planning and implementation of management plans, policies, procedures, and performance standards for professional service program and construction management.

Mr. Spinabelli has managed all facets of the construction process from proposal presentation, pre-construction services to construction and contract close-out. Experienced in both building and infrastructure projects, his expertise lies in the administration and management of activities including engineering, inspection, materials testing staff, field and office documentation and controls, correspondence, schedule reviews, and other pre-construction services. Before joining Hill International, Mr. Spinabelli worked for a variety of engineering firms as a structural design engineer with increasingly responsible assignments.

Recent and Relevant Experience

Ohio School Facilities Commission Projects, Various Locations, OH

Hill was selected to provide construction management services by the Ohio School Facilities Commission (OSFC) for several school districts consisting of five new K-12 school buildings with an estimated construction value of \$58 million. As Project Director/Executive, Mr. Spinabelli provided general oversight of all field and home office staff and ensured that required resources were available for the project. He was also responsible for client interface for critical project issues as well as overall client management. The five school districts include:

- **Clay Local School District, New PK-12 Grade School, Portsmouth, OH** - Construction of a new 100,684 SF school that will house 649 PK-12 grade students, including the demolition of the three existing schools for the school district.

Education:

B.S.E., Civil Engineering,
University of
Pittsburgh, 1981

B.S., Agricultural
Engineering, Pennsylvania
State University, 1980

Certificate, MBA
Essentials, Pennsylvania
State University, 2000

Registrations:

Professional Engineer,
Pennsylvania

LEED Accredited
Professional

Professional Memberships:

Construction Management
Association of
America (CMAA)

American Society of
Highway Engineers (ASHE)

American Council
of Engineering
Companies (ACEC)

- **Washington-Nile Local School District, New Portsmouth West Middle School, Portsmouth, OH** - Construction of a new 67,457 SF middle school that will house 474 students in grades 5 through 8, including the demolition of the existing middle school that has been plagued with a mold issue.
- **New Boston Local School District, New PK-12 Grade School, New Boston, OH** - Construction of a new PK-12, 83,000 SF building, including the demolition of the existing elementary, middle, and high schools.
- **Southern Local School District, Southern Local High School Addition, Racine, OH** - Construction of a 50,000 SF two-story high school addition onto an existing elementary school complex. A new consolidated front entry/administration area will finish the new K-12 building which will also include a new career center and a new competition gymnasium.
- **Lawrence County Joint Vocational School District, Collins Career Center Renovation, Chesapeake, OH** - The renovation of the 125,000 SF Collins Career Center will require complete demolition of all interior wall finishes, renovations to both low and high bay career technical spaces, and a 10,000 SF addition for a new adult education center.

Ohio School Facilities Commission, Edgerton Local School District Project, Edgerton, OH

Hill is providing construction management services for the Edgerton Local School project, located in northwest Ohio, including construction of a 48,470 SF addition to the existing 77,141 SF middle/high school. The new facility will house 645 students, PK-12 grade at a cost of \$9.8 million which includes demolition of the existing middle school. As Project Director, Mr. Spinabelli provided general oversight of all field and home office staff and ensured that required resources were available for the project. He was also responsible for client interface for critical project issues as well as overall client management.

University of Pittsburgh, Clapp, Langley, Crawford Hall In-Fill Project, Pittsburgh, PA

Hill provided construction management services on the new 50,000 SF infill addition, a five-story building sandwiched between the existing Langley Hall and Clapp Hall, with a small partial basement and penthouse structure on the roof. In addition, the project included 3,000 SF of renovation work in the existing Langley Hall to accommodate the new addition. Substantial coordination and scheduling efforts were essential on this project due to its urban location and adjacency to occupied educational spaces.

As Project Director, Mr. Spinabelli provided general oversight of all field and home office staff and ensured that required resources were available for the project. He was also responsible for client interface for critical project issues as well as overall client management.

Todd P. Cooper, PE, LEED AP, AVS

Project Manager

As Project Manager, Todd P. Cooper will have the day-to-day responsibility for this project assuring that the appropriate resources are directed toward completing the project. He will also serve as Hill's Value Engineering Consultant and LEED Coordinator. Mr. Cooper will have a significant preconstruction support role on the project team. It is anticipated that Mr. Cooper will not only fill duties within his defined area, but also provide expertise between the costing/estimating and constructability roles of this project. Mr. Cooper's time commitment to the project is viewed as a substantive part-time role but in sync with the objectives of the District.

Mr. Cooper has more than 13 years of experience in the construction industry. Mr. Cooper's areas of expertise comprise construction management, contract administration, critical path method (CPM) scheduling, delay analysis, and claims analysis. His projects include educational facilities, industrial facilities, turnpike service plazas, municipal facilities, bridges, roads and highways, water supply and drainage systems, office buildings, retail facilities, hotels, and prisons and correctional facilities in the United States.

Assuming overall responsibility for projects, Mr. Cooper performed constructability review of projects during design, coordinated with clients and subcontractors, and verified that work adhered to contract requirements. He enforced best practices, evaluated and tracked change orders, and identified cost and/or risk situations so as to implement corrective measures. In addition to monitoring subcontractor performance to ensure that projects were completed on time and within budget, Mr. Cooper supervised commissioning and closeout.

Mr. Cooper's specialized computer software skills include *Primavera P6*, *Primavera Project Planner (P3)*, and *Primavera Contract Manager*.

Education:

M.S., Civil Engineering,
Case Western Reserve
University, 2000

B.S., Civil Engineering,
Case Western Reserve
University, 1998

Certificate, OSHA 10
Hour Training, DCK
Worldwide, 2008

Certificate, Certified
Construction Claims
Specialist, Columbus
State College and
Bricker & Eckler, 2005

Registrations:

Professional Engineer, Ohio

Professional Engineer,
Michigan

Professional
Engineer, Florida

Professional Engineer,
Kentucky

LEED Accredited
Professional

Associate Value Specialist

Professional Memberships:

American Society of
Civil Engineers (ASCE)

Construction Management
Association of
America (CMAA)

Recent and Relevant Experience

Ohio School Facilities Commission Projects, Various Locations, OH

Hill was selected to provide construction management services by the Ohio School Facilities Commission (OSFC) for several school districts consisting of five new K-12 school buildings with an estimated construction value of \$58 million. Mr. Cooper was brought on to provide overall program management services. He supervised architects and engineers; monitored project budgets, including soft costs; and oversaw the construction and closeout phases. The three school district projects that Mr. Cooper has worked on include:

- **Southern Local School District, Southern Local High School Addition, Racine, OH** - Construction of a 50,000 SF two-story high school addition onto an existing elementary school complex. A new consolidated front entry/administration area will finish the new K-12 building which will also include a new career center and a new competition gymnasium.
- **Lawrence County Joint Vocational School District, Collins Career Center Renovation, Chesapeake, OH** - The renovation of the 125,000 SF Collins Career Center will require complete demolition of all interior wall finishes, renovations to both low and high bay career technical spaces, and a 10,000 SF addition for a new adult education center.
- **Edgerton School Expansion, Edgerton, OH** - Construction of a 48,470 SF addition to the existing 77,141 SF middle/high school. The new facility will house 645 students, PK-12 grade at a cost of \$9.8 million which includes demolition of the existing middle school.

Ohio Department of Transportation (ODOT) Constructability Review Projects, Various Locations, OH

Mr. Cooper was responsible for the coordination and performance of constructability reviews specifically for District 4, 6, and Statewide.

Ohio Turnpike Commission (OTC), OTC Service Plazas, OH

On behalf of the organization that operates and maintains the Ohio Turnpike, Mr. Cooper provided construction management and engineering services to service plaza demolition and construction projects. He was involved in all project phases from pre-construction through closeout. Specifically, Mr. Cooper's projects included:

- **Indian Meadow and Tiffin River Service Plazas, West Unity, Williams County** - As Project Manager Mr. Cooper was responsible for providing construction management services for a \$35 million project to build two service plazas on the Ohio Turnpike. He was responsible for pre-construction services, contractor procurement, construction, commissioning, and closeout.
- **Blue Heron and Wyandot Service Plazas, Genoa** - As Project Manager, Mr. Cooper delivered construction management services for the \$25 million demolition and reconstruction of two service plazas on the Ohio Turnpike. He oversaw preconstruction services, contractor procurement, construction, commissioning, and closeout.
- **Middle Ridge and Vermilion Valley Service Plazas** - This \$29 million project consisted of building two service plazas on the Ohio Turnpike. Civil site work involved the construction of ramps, pavement, and canopy; the installation of drainage systems; and the removal and replacement of fuel tanks. Building work comprised the complete demolition of existing facilities and the construction of general office space, restaurant and eating areas, storefronts, common areas, and restrooms. Mr. Cooper was the Project Engineer responsible for project closeout and final change order pricing review and negotiation.

The basement, first, and second floors of the building were also renovated. The 7,000 SF basement renovation involved construction of new locker rooms and a larger exercise room. The project also included the building of a new entranceway and reception area for the existing City Hall, as well as a community

room for meetings. Mr. Cooper was responsible for preparing estimates during the design phase and for reviewing and analyzing contractor schedules and submittals.

Ohio Department of Transportation (ODOT), Main Street Bridge Replacement Project, Columbus, OH

Hill provided construction management services for this \$45 million bridge reconstruction project. The project involved the replacement of the original concrete structure and construction of a 692-foot-long, three-span bridge that carried Main Street over the Scioto River. The 500-foot center span was supported by an inclined arch superstructure, which was constructed of an asymmetric steel box beam filled with reinforced concrete. From the arch hung a structural steel “L” bracket and cables that supported a cantilevered post tensioned concrete deck for vehicular traffic on one side and a cantilevered deck for pedestrian traffic on the other side. In addition to coordinating construction engineering support services for the owner, Mr. Cooper reviewed and analyzed contractor-submitted schedules and claims.

Ohio Department of Transportation (ODOT), District 8 General Inspection Projects, Various Locations, OH

Assigned to a \$1 million contract for the provision of general inspection services, Mr. Cooper reviewed and analyzed schedules for all major department contracts.

Ohio Turnpike Commission (OTC), Ohio Turnpike Third Lane Widening Project, Berea, OH

This \$700 million project involved the addition of a third lane to 160 miles of Ohio Turnpike from Toledo to Youngstown. Works included the replacement of 100 mainline bridges and 50 overhead bridges. During the design and construction phases, Hill International performed alternate concepts analysis, constructability reviews, project scheduling, estimating, cost monitoring, document control, contract packaging, construction inspection, claims avoidance, and safety monitoring. We also served as the OTC’s liaison among design consultants, construction contractors, government agencies, and the public. Mr. Cooper was responsible for contract administration and submittal review.

Cuyahoga County Engineer’s Office, Cuyahoga County Inspection Projects, Cuyahoga County, OH

For this open-end task order contract, Mr. Cooper provided construction management support services for all major projects. He performed constructability review of projects during the design phase, as well as reviewed and analyzed critical path method (CPM) schedules and contractor-submitted claims. Specifically, Mr. Cooper’s projects included:

- **Pleasant Valley, Emery, Basset-Crocker, and Cedar Roads Reconstruction** - Mr. Cooper provided scheduling for multiple roadway widening and reconstruction projects that involved extensive utility relocation.
- **Schaaf Road Bridge Installation** - Mr. Cooper carried out a constructability review for a project comprising the reconstruction and realignment of a bridge over a railroad, as well as the relocation of utilities such as water, gas, and communications.
- **Crocker Stearns Extension** - Mr. Cooper performed constructability review and scheduling tasks for a project consisting of the installation of a 1.5-mile section of roadway, the widening of one mile of adjacent roadway, the installation and relocation of utilities, and the construction of a drainage system.

Gerald J. Griffaton, PSP

Chief Estimator

As Chief Estimator, Gerald J. Griffaton will have the lead responsibility of the cost estimating functions of this project. Mr. Griffaton understands the complexity of the multiple prime project models for these projects and will assign the appropriately experienced estimator for each construction package, i.e. mechanical, electrical, plumbing, and general trades. As with the other significant tasks, Mr. Griffaton's role will be considered a substantive part-time role commensurate with the needs of the project.

Mr. Griffaton has 41 years of experience in the construction industry during which time he formed high energy, positive relationships with owners, architects, and trade contractors throughout the tri-state area of Pennsylvania, New Jersey, and Delaware. Mr. Griffaton's projects include three Pennsylvania School Districts, the Pennsylvania Convention Center, and the Reading Terminal in Pennsylvania. In addition, his project experience includes high-end condominiums, apartment and office complexes, military housing, retail centers, anchor stores, parking garages, and tenant fit-outs.

Mr. Griffaton's expertise includes the ability to evaluate, analyze, define, and negotiate subcontracts for the correct and complete scope of work for all projects. His skills also include conceptual and feasibility estimating, compiling bid packages, development of the Guaranteed Maximum Price (GMP), budget and feasibility studies, soliciting union and open shop subcontractors, and handling change orders and directives.

Recent and Relevant Experience

Parkland School District, Fred J. Jandl Elementary School, Upper Macungie Township, PA

Hill provided design and construction management services as well as three cost estimates for the new 76,400 SF elementary school in Upper Macungie Township, Pennsylvania. Hill also provided design and constructability reviews of plans and specifications for the \$21.4 million school. Hill participated in the overall management of design and providing an assisting architect in the permitting and approval process with the state and local officials. Mr. Griffaton was responsible for the preparation of estimating packages.

Methacton School District, Arcola Intermediate School, Norristown, PA

Hill provided full construction management services from design through construction for two schools: the Woodland Elementary School and Arcola Intermediate School. The Arcola project encompassed a 90,000 SF building

Education:

Coursework, Drafting and Design Technology, Penn State University, Pottsville and Abington, PA, 1961-1963

Registrations:

Planning and Scheduling Professional

addition (to serve as the new Skyview Elementary School) and renovations to 30,000 SF of existing space. The new building addition included classrooms, a multipurpose gym, media center, separate entrance and administration offices, all completely separate and distinct from the existing facility. Renovated areas included the Grade 7-8 administration office, kitchen and café spaces, science classrooms, and guidance areas. Mr. Griffaton provided estimating services for this \$32 million project.

The Walden School, Media, PA

Mr. Griffaton provided an independent cost estimate and suggested alternate contractors for multi-purpose 8,000 SF building expansion totalling \$2.2 million.

Prior Experience

Various Estimates (including SC, DD, and CD) for the following school projects:

- **Elberon Elementary** - 116,000 SF, \$27.4 million
- **Elwyn School** - 107,000 SF, \$16 million
- **Lenna Conrow School** - 112,000 SF, \$23 million
- **Wilmington Friends** - 34,000 SF, \$68 million
- **Cumberland Regional High School** - 247,000 SF, \$22 million
- **Gregory Elementary** - \$23 million
- **Carusco School & Early Childhood Center** - \$29 million
- **White Clay School** - 44,000 SF, \$6 million

Various Construction Management Projects, Huntingdon Valley, PA

As Senior Estimator, Mr. Griffaton was responsible for the preparation and presentation of estimating packages for high-end condominiums, apartment complexes, military housing, retail centers, anchor stores, parking garages, and tenant fit-outs on a conceptual and hard-bid basis. He also negotiated projects and solicited both union and open shop subcontractors throughout the country.

Bristol-Myers Squibb Office Buildings, Hopewell, NJ

As Senior Estimator and Contract Administrator playing an integral role on the Contract Administration Team, Mr. Griffaton was responsible for the formation of over 2,600 change orders and directives. In addition, his duties included compiling all bid packages, contract analysis, and additional scope estimates for 14 buildings with a total value of \$73 million.

Pennsylvania Convention Center Exhibit Hall, Philadelphia, PA

As Estimator and Cost Analyst, Mr. Griffaton was responsible for the preparation of estimates based on Design Development drawings prior to assembling bid packages. He also reconciled quantity and cost of the \$154 million project with the Construction Manager of the Convention Center Authority. Mr. Griffaton was also responsible for the competitive, hard-bid evaluation of the subcontractor's scope analysis for completeness. His duties also included preparation of conceptual bid estimates from \$1 million to \$15 million for architectural feasibility studies and value engineering.

Clarence E. Bossard

Senior Estimator

Education:

A.S., Technology, Temple University, 1967

Clarence E. Bossard has over 40 years of experience in the construction industry as a construction manager, building inspector, contractor, estimator, and scheduler. In addition, he worked with several major architectural and construction firms which have afforded him extensive experience in management, design, specification writing, estimating, value engineering, and inspection of construction projects. His experience includes a variety of assignments, including expert witness testimony on project construction costs.

Recent and Relevant Experience

Various School District Referendum Programs

Mr. Bossard serves as the Chief Estimator for numerous current and past school district referendum programs, for which he is responsible for preparing construction cost estimates during the design stage. The programs and projects include:

- **Atlantic City Elementary School Program**, Atlantic City, NJ. Two new elementary schools Pennsylvania Avenue School (\$39.5 million) and Richmond Avenue School (\$38.9 million).
- **Chesterfield Elementary School**, Chesterfield, NJ. A new \$37.7 million, K-6 elementary school.
- **Upper Freehold Middle School**, Allentown, NJ. A new, \$48.3 million middle school.
- **Shawnee High School**, Medford, NJ. A \$28.8 million addition and renovation project, including a new auditorium addition, classroom addition, and major system renovations.
- **Millstone Township Schools Program**, Millstone, NJ. This is a \$41.1 million capital program, including a new 700-student middle school, performing arts center, and additions at two elementary schools.
- **West Long Branch School District, Frank Antonides School**, West Long Branch, NJ. A \$7.6 million addition and renovation program at a K-8 school complex.
- **Matawan-Aberdeen Schools Program**, Matawan, NJ. A \$36.9 million program to expand and renovate six schools.

Woodbridge Township Schools Program, Woodbridge, NJ

Woodbridge Township Public Schools is undertaking an \$86.1 million school construction program to renovate and expand their existing 25 schools, dating

from the 1920s to the 1960s. The work includes roof and window replacement; upgrades to plumbing, mechanical and electrical systems, and classroom additions at six schools. Mr. Bossard provided the estimating effort for the school district with schematic design, design development 60%CD, and 95%CD estimates for the school construction program.

Landis Intermediate School, Vineland, NJ

For the renovations to the existing intermediate school, Mr. Bossard was Chief Estimator responsible for providing the cost estimate for the A/E for the completion of design.

New Jersey Schools Development Authority (NJSDA), School Construction and Renovation Program, Trenton, NJ

As Chief Estimator at Hill, Mr. Bossard conducts staff assignment and reviews of the estimating and pricing effort for the NJSDA with schematic design, design development 60%CD, and 95%CD estimates for the school construction program. Detailed estimates include all civil, architectural and structural, mechanical and electrical for each school type K-12 and renovation and new construction. The estimates include new construction, additions, and renovations for 17 schools in the Trenton and Burlington County school districts. Similar services were also provided for the following school districts:

- **Parkland School District, Springhouse Middle School** – new addition with alterations and renovations to the existing school.
- **Pleasantville School District, Pleasantville New Alternative Middle and High School.**
- **Vineland School District, Landis Avenue Middle School** – interior renovations and window and roof replacement.
- **Edison Township School District, Lindeneau and Monroe Elementary Schools** – additions and alterations.
- **City of New York School District** – change order estimates and cost analysis for a variety of school projects.
- **Henry Hudson School District, Henry Hudson Regional School** – additions and renovations to an existing school.

New Jersey School Boards Association Headquarters, Trenton, NJ

Hill International provided Project Management Oversight services to the New Jersey School Boards Association for a renovation program included three separate phases, the first of which involved the installation of a new gas burner and cooling tower, chilled water plant, and the removal of an existing oil tank. The second project involved renovation of the building exterior and replacement of windows. The third project involved modifications to existing HVAC, electrical and computer systems at the facility. Mr. Bossard provided estimates of internal finishes for the renovation project.

New York City School Construction Authority (SCA) On-Call Estimating, Various Locations, NY

Hill International was retained by the SCA to perform cost evaluations and claim review and analysis services for various SCA projects. For the cost evaluation services, Hill is providing the SCA with independent cost estimates in negotiating final construction costs with the contractors. As Senior Estimator at Hill,

Mr. Bossard conducts staff assignment and reviews of the estimating and pricing effort for the SCA with schematic design, design development 60%CD and 95%CD estimates for the school construction program. Detailed estimates include all civil, architectural and structural, mechanical and electrical for each school type K-12 and renovation and new construction.

New York City School Construction Authority (SCA) Capital Improvements Projects and Capacity School Projects, Various Locations, NY

Hill provided estimates for Capital Improvement Projects (CIP) and Capacity (New) Projects. Included in Scope Estimates are CIP Scope Estimates, Feasibility Estimates, Pre-Schematic and Schematic Estimates. Our Progress Estimating included Progress and Final estimating for Capacity Projects and Progress and Final estimate for CIP. In addition, Hill provided Final estimates from final set of document to include all factors governing each project's general conditions and site conditions.

Rutgers University Law School, Additions and Renovations, Camden, NJ

When Rutgers University completed a new academic wing and interior renovations to the Law School at the Camden campus, Mr. Bossard served as the Chief Estimator to evaluate the general contractor's payment request. He also evaluated, estimated, and assisted the RSU project manager to negotiate all change order requests. Hill's services also included the scheduling analysis for the contractor's delay claim. The project was expanded to include similar services for the renovation of the gymnasium.

Rutgers The State University of New Jersey, Athletic and Fitness Center Renovation, Camden, NJ

Renovations to the athletic and fitness center at Rutgers University Camden campus, Mr. Bossard served as the Chief Estimator.

Dormitory Authority of the State of New York, Queens College Utilities Upgrade, New York, NY

Mr. Bossard provided estimates to the New York State Dormitory Authority and the City University of New York for the utilities upgrade at Queens College. Working closely with the owner and engineering firm, As Chief Estimator, Mr. Bossard provided estimates and cost alternatives which aided in refining the project budget and verifying the design team's construction cost estimates.

Philadelphia University, Campus Student Center and Parking Garage, Philadelphia, PA

The project is a 71,000 SF multi-story building with a 19,000 SF addition to an existing athletic facility, in addition to an extensive landscaping design. Mr. Bossard served as Chief Estimator for the revitalization of the Campus Center and Garage and provided quantity take-offs, unit price research, value engineering, and alternative cost saving research. The project was LEED certified.

David Ambrose

Senior Electrical Estimator

David Ambrose has more than 45 years of electrical estimating and project management experience. As an estimator, Mr. Ambrose quantifies and prices materials and labor for electrical systems, value engineering, and life-cycle cost analysis. He also provides first-hand experience in the application and implementation of low and medium voltage motor control and power distribution equipment, as well as power, control and implementation systems for research laboratories, industrial facilities, airports, institutional and government facilities.

Mr. Ambrose's industrial background includes budgets, pre-design conceptual electrical and instrumentation as well as "build to print" estimates for owners, architects, engineers and constructors. His application experience includes pneumatic, electrical and electronic instrumentation for use with relay, PLC and DCS process control systems. In addition, his expertise includes installation of grounding, lighting, lighting protection, power, emergency power, fire and gas detection alarm, security, intercom, and CCTV systems including calibration, check-out and start-up. In addition, Mr. Ambrose is familiar with the manufacture of NEMA and IEC pneumatic, eclectic and electronic control panel, I/O-PLC and instrument junction enclosures.

Mr. Ambrose's design expertise in the commercial sector includes specifications, electrical design and detail drawings for high-rise office buildings, schools, jails and detention centers, fire stations, shopping centers, retail sales, restaurants, and retail food stores. He has been responsible for equipment specifications and installation design for 480v, 4160v and 13.2kv distribution, power and motor control systems, VSDs, lighting, lighting protection, grounding, emergency generators, UPS, as well as energy monitoring and conversion systems. Mr. Ambrose's customers have included architects, engineers, owners-users, equipment manufacturers, US Government Civil Service and the Department of the Navy.

Recent and Relevant Experience

Ft. Bend Independent School District, Elementary Schools, Houston, TX

Mr. Ambrose was part of the team providing cost estimation services for renovation of six elementary schools. The scope of the renovation varied based on the needs of each individual campus.

Kennesaw State University Five-Year Capital Projects, Kennesaw, GA

Mr. Ambrose provided costing and cost management services for various University projects.

Education:

Coursework, University of Michigan, 1959-1961

Professional Memberships:

American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHREA)

Society of Hospital Engineers

Illuminating Engineering Society

Board of Regents of the University System of Georgia, Cost Validation Study, Various Locations, GA

As part of the team providing program budget consulting services, Mr. Ambrose performed independent studies on development projects at 36 campuses, and prepared program budget confirmation estimates as well as component cost models.

University of South Carolina, Health Center, Columbia, SC

Mr. Ambrose provided professional construction consulting services to facilitate planning of alterations to the Thompson Student Health Center at the University of South Carolina. His duties included creation of cost estimates for several scenarios including renovation and addition to the four-story, 37,000 SF concrete-frame structure built in the early 1970s. Other options included estimates to construct a new building that would meet the Student Health Center's projected staffing requirements.

University of Alabama at Birmingham, Heritage Hall, Birmingham, AL

Mr. Ambrose provided electrical cost management services for the fifth floor fit-up project in Heritage Hall on this university campus. Renovation of the existing 7,600 SF "shell space" included a director's office, a conference room, a shared classroom and seminar space, a shared classroom and conference room space, a study lounge, support spaces and storage rooms.

University of Kentucky, Patient Care Facility, Lexington, KY

Mr. Ambrose led the team providing cost management and estimating during the pre-construction and construction phases of this 1 million SF, multi-phase hospital project which included a 700,000 SF building, 240 patient rooms, operating suites, emergency rooms, support areas and over 300,000 SF for future expansion. A significant feature of the consulting services was cost reconciliation provided during the various stages of pre-construction which validated each project's scope and the \$624 million budget. In addition to the building costs, Mr. Ambrose provided estimates for modifications to three energy plants as well as distribution of electricity and chilled water to the site. These infrastructure modifications added \$500,000 to the overall project costs.

Boston University, National Emerging Infectious Diseases Laboratory (NEIDL), Boston, MA

As Project Manager and Senior Cost Manager, Mr. Ambrose provided conceptual, design development and construction document cost consulting services for the NEIDL building project on the Boston University Medical Center (BUMC) campus. This \$138 million, state-of-the-art high containment facility that promotes world-class biomedical research on infectious diseases. In addition to BSL4 labs, the facility also houses BSL 2 labs, BSL 3 labs, lab support spaces and administration areas.

University of Alabama at Birmingham, Shelby Interdisciplinary Biomedical Research Building (IBRB) and Vivarium, Birmingham, AL

The Shelby IBRB, a 12-story, 314,000 SF facility houses administration and lab support space as well as 11 floors of research laboratories. The IBRB project is supported by construction of a 100,000 gross SF, five-story research support facility, which contains facilities for primates and small animals. The two are joined via a 300-foot long air-conditioned connector structure. Hill provided owner's representative services as well as cost, schedule, and occupancy management services to the University. Mr. Ambrose provided

the cost management services for this building which was the first facility built as part of the Capital Construction Program dedicated to interdisciplinary biomedical research on the University's Birmingham campus.

University of Alabama at Birmingham, Southeastern Biosafety Laboratory (SEBLAB), Birmingham, AL

Mr. Ambrose served as part of the project team providing conceptual, design development and construction estimating services for this \$104 million, 12-story research facility.

University of Alabama at Birmingham, Research Support Building, Birmingham, AL

Mr. Ambrose served as part of the project team providing conceptual, design development and construction estimates for this \$24 million research facility.

George Mason University, Regional Biocontainment Laboratory, Manassas, VA

Mr. Ambrose provided pre-construction cost estimating services for this 55,000 gross SF facility devoted to the study of biomedical host defense and microbial pathogenesis of select agents and emerging infections. The ground floor plan for the building provides state-of-the art BSL2 and BSL 3 bio- containment and research core facilities to study cell and molecular biology including infectious microbes which are bio-terrorism threats to US citizens.

The University of Texas Cancer Center, Basic Sciences Research Building, Houston, TX

Mr. Ambrose was part of a team providing electrical conception estimating for the Multi-Campus Master Planning Project/Near Term Plan for the M.D. Anderson Center.

University of Florida, Emerging Pathogens Research Facility, Gainesville, FL

Mr. Ambrose provided pre-construction cost estimating services on this \$34 million, four-story 87,850 SF research building which provided an adaptive and enduring collaborative network of disciplines focused on scientific, social, educational, infomatics, diagnostics, and surveillance issues related to vigilance and control of newly emerging pathogens.

Prior Experience

University of Michigan, Law Library Renovation, Ann Arbor, MI

Mr. Ambrose provided electrical costing services for the architect during conception, design development, and construction document phases of the pre-construction process for renovation including the removal, restoration and replacement of historic light fixtures. Costing services also included reconciliation with the contractor and subcontractor.

Manuel De La Hoz

Senior Mechanical Estimator

Manuel E. De La Hoz has over 26 years of experience in construction and engineering, estimating and project management for HVAC, plumbing and piping, fire protection, elevators, and electrical projects. He has been involved with bids and management of some of the largest mechanical projects in the New York and Philadelphia metropolitan area, including airports and pharmaceutical projects.

Mr. De La Hoz is the lead estimator that coordinates estimating efforts for the New York Constructability Department. He is also responsible for conceptual and hard bid estimating for HVAC, plumbing, fire protection, elevators and he coordinates the estimates of all the construction divisions. In addition, Mr. Del La Hoz reviews estimates, and constructability analysis, and provides pre-construction services. His experience also includes the new electronic meter reading technology used by utility companies. He is a certified QuickPen user as well as a certified Itron AMR installer.

Mr. De La Hoz's specialized computer skills include QuickPen Estimating, on-screen take off, MC², and Microsoft Office software. He is fluent in English and Spanish.

Education:

B.E., Technical Design
Drawing, Institution of
Industrial Technology of
Atlantico, Columbia, 1974

Diploma, Technical
Drawing, Institution of
Industrial Technology of
Atlantico, Columbia, 1971

Recent and Relevant Experience

New Jersey Schools Development Authority (NJSDA), Region 6 Schools Construction and Renovation

Hill International provided program management for renovations and additions to 15 schools in Region 6 -- the largest Program Management Firm (PMF) contract issued by the NJSDA - with overall responsibility from master planning through construction management. As the PMF, Hill's responsibilities include providing a community outreach program, maximizing the participation of S/M/WBEs, site acquisition and overall program value engineering studies. Hill is utilizing Primavera P3e/c, and Expedition which enables all key program personnel, including the Owner, to have access to overall program or individual project data, including schedules, budgets, and all key correspondence and design plans. As Senior Mechanical Estimator, Mr. De La Hoz provided the mechanical effort for the NJSDA with schematic design, design development 50% CD and 100% CD estimates for the school construction program. Detailed estimates included all civil, architectural and structural, mechanical and electrical for each school type, K-12 renovation and new construction.

Woodbridge Township Schools Program, Woodbridge, NJ

Woodbridge Township Public Schools is undertaking an \$86.1 million program to renovate and expand their existing 25 schools, dating from the 1920s to the 1960s. The work includes roof and window replacement; upgrades to plumbing, mechanical and electrical systems; and classroom additions at six schools. Mr. De La Hoz provided the estimating effort for the school district with schematic design, design development 60% CD and 95% CD estimates for the school construction program.

The City University of New York, Brooklyn College Performing Arts Center, New York, NY

Hill International is providing construction management/build services for the Brooklyn College Performing Arts Center which includes a 64,000 SF addition to the existing Whitman Hall and features a 200-seat flexible stage performance space with variable acoustics; rehearsal rooms for orchestra, choral and theater; a state-of-the-art recording studio; the Pima Center for Computer Music; music studios and practice rooms; and a scene shop. Building materials, systems and finishes have all been selected with environmental sustainability in mind, making this the first “green building” on campus. Mr. De La Hoz is currently involved with the pre-construction, budgeting, and estimating effort for this project. As Senior Estimator, he has led the estimating effort for the schematic design, design development 50% CD, 95% CD, and 100% CD estimates for the construction program. His detailed estimates included all civil, architectural and structural, mechanical and electrical divisions as well as different construction packages.

Prior Experience

Various Projects, Construction Firm, Princeton, NJ

As Senior Estimator, Mr. De La Hoz was responsible for conceptual and hard bid estimating for HVAC, plumbing, fire protection, elevators, and electrical work. He reviewed estimates and constructability analysis, and provided pre-construction services. His projects included:

- **Newark Science Park High School**, Newark, NJ
- **Newark Central High School**, Newark, NJ
- **Trenton High School**, Trenton, NJ

Lance M. Rothstein, AIA

Constructability Review Manager

Lance M. Rothstein will manage the Constructability Review Process. His national experience combined with the unique perspective of a registered architect will provide exceptional vision to this project. Mr. Rothstein will have the resources of Hill's most experienced local construction managers to engage upon the District's projects. This position is viewed in a similar fashion to that of the Chief Estimator and will be a substantive part-time role commensurate with the needs of the project.

Mr. Rothstein, a Registered Architect, has over 20 years of extensive experience leading people and project teams, implementing and overseeing technological controls, and administering multiple projects. Mr. Rothstein possesses an in-depth understanding of the construction process, particularly the pre-construction field. He has expertise in cost estimating from schematic and design development to construction documentation; constructability reviews and value engineering analysis; permit, code, and ADA analysis; and master scheduling, budgeting, and financial reporting. Mr. Rothstein's broad professional scope has included a variety of high-level projects in the public and private sector. His project experience includes housing, commercial, educational, historic buildings, office buildings, sports and entertainment, senior facilities, police and correctional facilities, bus facilities, parking, museums, transit facilities, and medical research laboratories. His specialized computer software skills include *Primavera*, *AutoCAD*, *Studio Viz*, *Aldus Page Maker* and *Photostyler*, *Prolog*, *SureTrak*, and *MS Project*.

Education:

M.A., Architecture,
University of
Pennsylvania, 1989

B.A., Art, Williams College,
Massachusetts, 1985

Registrations:

Registered Architect,
Pennsylvania

Professional Memberships:

Board Member, Charter
High School for Architecture
+ Design (CHAD)

American Institute
of Architects

Recent and Relevant Experience

Upper Moreland School District, Upper Moreland High School Renovation, Willow Grove, PA

Hill was retained to provide preconstruction assistance to the Upper Moreland School District. Hill's services included cost estimating, constructability reviews, and schematic scheduling. During construction, which was completed in late winter 2009, Hill provided full project management services to the School District. The facility was fully air conditioned and the original window wall system was completely replaced. Additions consisted of three new wings housing music, science classrooms and labs, an expanded gymnasium, and administrative space. Mr. Rothstein was Project Manager for this complex, phased project that called for the renovation of the existing 177,700 SF of existing space and the addition of another 35,000 SF.

Penn Delco School District, Sun Valley High School Renovation, Aston, PA

Hill provided pre-construction services for the project, which included

front-end document, schedule and phasing, and constructability reviews. Mr. Rothstein served as Pre-Construction Manager for this \$10 million project, which includes a new HVAC system to remedy indoor air quality conditions, new ceilings, lighting, fire alarm system, selected areas of flooring replacement, and the relocation of the Nurse's Office and School Store. The project was a multi-phased construction completed in fall 2008.

The Walden School, Media, PA

The Walden School is a private pre-K through 8th grade Montessori facility. Due in part to the success of their program, the school has run out of space, and is now master planning an expansion project which includes a new gymnasium, performance stage, a couple classrooms, and restrooms. Emphasis on this 8,500 SF facility is on a sustainable design which will enable valuable teaching lessons for the students. The intent of the project is to build a LEED certifiable facility and to place it within the school's campus environment paying attention to such things as exterior rain gardens, while being sympathetic to its residential setting. The school administration retained Hill for two primary purposes during its planning phase. First, Hill performed a cost estimate from the schematic design documents. Second, Hill assisted the school in identifying and interviewing appropriate contractors for performing the work. The school is now finishing fund raising for the project and has indicated its desire to continue with Hill for project management services during construction.

Prior Experience

Architectural Firm, Various Projects, Philadelphia, PA

As Staff Architect, Mr. Rothstein was responsible project management, consultant coordination, construction administration, design and construction documentation, cost estimates, specification writing, and planning. Projects included:

- **William Penn Charter School, Art Department Renovations, Philadelphia, PA** - The project involved the conversion of existing basement space, which had been used as locker rooms for the sports program, and turning it into a new series of classrooms and studios for the school's art program. Participating as project architect, the challenge was to design a space for the arts program that not only provided for the square footage and display wall requirements, but also responded to needs for openness, light, and air, while at the same time, responding to the historic architecture of the existing building. In order to bring the project into reality, coordination issues were paramount and forced a very tight, over the summer, construction schedule. The project was successfully completed and opened in the following fall to the pleasure of all art faculty and students. The new arts facility made dramatic use of tall vaulted ceilings and large arched windows, giving the arts program a well-deserved base of operations. The key to the success of this project was a constant line of communication between the school officials, the design team, and the contractor.

Brice L. Clawson, LEED AP

Constructability Reviewer

With more than 10 years of experience in the construction industry, Brice L. Clawson has expertise in construction management, critical path method (CPM) scheduling, project management, and claims analysis. Mr. Clawson's projects include entertainment and sports facilities, hotels, correctional facilities, and educational buildings in the United States.

Mr. Clawson was responsible for administering preconstruction services, coordinating and inspecting site work, developing and monitoring safety programs, and implementing best practices. He monitored subcontractor performance and assessed risk in subcontractor bond requirements. Mr. Clawson also analyzed and negotiated change orders, pay requests, cost proposals, and time extension requests; enacted corrective measures to address cost and/or risk situations; and researched claims so as to provide expert conclusions. Acting as a Client Representative, he ensured that projects were completed on time and within budget. Mr. Clawson is familiar with public project policies, procedures, and requirements.

Mr. Clawson's specialized computer software skills include *Primavera P6*, *Primavera Project Planner (P3)*, *Primavera Contract Manager*, and *Prolog*.

Education:

B.S., Agricultural and Construction Systems Management, Ohio State University, 2000

Registrations:

LEED Accredited Professional

Recent and Relevant Experience

Ohio School Facilities Commission (OSFC), Clay Local School District, New PK-12 Grade School, Portsmouth, OH

As Project Manager on behalf of OSFC that administers the state's comprehensive K-12 public school construction program, Hill served as CM Agent for this \$25 million project. Responsible for overall oversight and project coordination, Mr. Clawson's duties included schedule, budget, change management, documentation, staff oversight, and client relations. He also conducted job meetings and ensured both LEED and OSFC compliance.

Ohio School Facilities Commission (OSFC), Washington-Nile Local School District, New Portsmouth West Middle School, Portsmouth, OH

As Project Manager on behalf of OSFC that administers the state's comprehensive K-12 public school construction program, Hill served as CM Agent for this \$17 million project. Responsible for overall oversight and project coordination, Mr. Clawson's duties included schedule, budget, change management, documentation, staff oversight, and client relations. He also conducted job meetings and ensured both LEED and OSFC compliance.

Prior Experience

Jefferson LSD and OSFC Building Program, West Jefferson, OH

As Project Manager working for a construction management firm, Mr. Clawson was involved in a \$30 million building program consisting of additions and renovations to convert a high school into a 6-12 facility and expansion and renovation of an elementary school. He liaised with the client for coordination of pre-construction activities through each phase of design, bidding, contract administration, project controls, project procedures, program scheduling, project closeout, and training and development of support staff. In addition to monitoring the budget and approving invoices, pay applications, and change orders, Mr. Clawson developed a process to resource-load the project schedule using Primavera Project Planner (P3) and integrate it with the pay application process. He also developed an orientation program for contractor safety awareness.

Ohio School Facilities Commission (OSFC) Regional Planning Project, Various Locations, OH

As Regional Program Consultant and Assistant Project Manager on behalf of a construction management company, Mr. Clawson was in charge of regional planning for more than 30 school districts. He consulted with the districts to develop construction plans that would fit within OSFC guidelines.

Jackson City School District and Ohio School Facilities Commission (OSFC), OSFC Guidelines Project, Jackson, OH

As Assistant Project Manager employed by a construction management firm, Mr. Clawson guided a team on adhering to OSFC guidelines.

Northern Local School District and Ohio School Facilities Commission Building Program, Thornville, OH

As Project Engineer working for a company that provided design-build, construction management, and general contracting services, Mr. Clawson was assigned to a \$45 million building program. The program involved the construction of new high school and elementary school buildings, expansion and renovation of an elementary school, and conversion of a high school to a middle school facility. He acted as the company representative with the client for coordination of pre-construction activities through each phase of design, bidding, contract administration, project controls, project procedures, program scheduling, project closeout, and training and development of support staff.

New Lexington School District and Ohio School Facilities Commission Building Program, New Lexington, OH

As Project Engineer on behalf of a company that offered design-build, construction management, and general contracting services, Mr. Clawson was involved in a \$32 million building program. The program consisted of the construction of a new high school, additions and renovations to two elementary schools, and renovation of a middle school. He served as the company representative with the client for coordination of pre-construction activities through each phase of design, bidding, site coordination and management, project controls, and project closeout.

Herbert C. Reihner, LEED AP

Constructability Reviewer

Herbert C. Reihner has more than 25 years of experience in the construction industry including expertise with a variety of construction disciplines, union agreements and jurisdictions, safety regulations, scheduling, cost control, engineering drawings, and other documents. He provides a variety of construction management services including constructability reviews, specification compliance, budget reviews, and coordination of prime contractors.

Recent and Relevant Experience

Ohio School Facilities Commission (OSFC) Projects, Various Locations, OH

As Superintendent and Project Controls providing construction management services for the OSFC, Mr. Reihner was responsible for constructability reviews, Ohio Schools Design Manual compliance, budget estimates, document control, invoice approvals, website maintenance, and coordination of A/E and prime contractors. Specifically, his OSFC projects included:

- **Washington - Nile Local School District, New Portsmouth West Middle School, Portsmouth, OH** - For the \$17 million project Building Packages, Mr. Reihner was Construction Manager responsible for on-site construction activities including coordination of the general trades, mechanical, plumbing, electrical and fire protection prime contracts to ensure compliance with the plan and specifications. His duties also included review of submittals, pay applications, RFIs, and change orders. In addition Mr. Reihner was responsible for communications between the architect, prime contractors, School District, and the OSFC.
- **Clay Local School District, New PK-12 Grade School, Portsmouth, OH** - \$25 million
- **New Boston Local School, New PK-12 Grade School, New Boston, OH** - \$19.2 million
- **Edgerton Local School District Project, Edgerton, OH** - \$18.6 million, 50,000 SF Addition

Ohio Turnpike Commission (OTC) Third Lane Widening, Toledo to Youngstown, OH

As Project Engineer for this \$700 million program involved construction of a third lane for 160 miles and entailed replacement of 100 mainline bridges and 50 overhead bridges. Forty-eight contracts covering 140 miles were completed while maintaining two lanes of traffic during the summer months. Additional challenges included the \$25 million Interstate-80/Interstate-77 interchange reconstruction and the \$51 million rebuilding of the Cuyahoga River Bridges. Mr. Reihner was responsible for contract close-out.

Education:

A.S., Applied Science and Technology, Thomas Edison State College, 1998

Coursework, Cleveland State University, 1986-1988

Registrations:

LEED Accredited Professional

Professional Memberships:

Labor Union, Local 310, Cleveland, OH

Toby S. Fritz, PE, CCM, LEED AP

Constructability Reviewer

Toby S. Fritz has more than 22 years of experience in the construction industry. Mr. Fritz's areas of expertise include construction and project management, civil engineering, contract administration, and construction inspection. His projects consist of retail facilities, airports, roads and highways, bridges, rail and transit, correctional facilities, sewerage and wastewater treatment plants, water supply, and hazardous waste management in the United States.

Mr. Fritz oversaw contracts for building, transportation, and utility projects on behalf of local and federal government agencies, airport authorities, utilities, and railroad organizations. In addition to coordinating project activities and contractors, he developed initial baseline schedules, implemented best practices, and produced cost reports from bid estimates. Mr. Fritz analyzed and negotiated change orders, pay requests, cost proposals, and time extension requests. He enforced quality assurance and quality control (QA/QC) by monitoring subcontractor performance and ensuring project compliance with contract documents and specifications. Mr. Fritz often worked at live locations with high traffic volumes, where he relocated utilities and installed fiber-optic, electric, gas, and cable lines.

Recent and Relevant Experience

Ohio School Facilities Commission Projects (OSFC), Various Locations, OH

Mr. Fritz provided pre-construction services including scheduling, estimating, value engineering, bid document development, and bid packaging. During the construction phase, Mr. Fritz was Project Director responsible for direct field staff and project manager reports. He also managed administrative aspects of the Edgerton project to include billing and invoicing efforts. Specific OSFC projects include:

- **Clay Local School District, New PK-12 Grade School, Portsmouth, OH** - \$25 million
- **New Boston Local School District, New PK-12 Grade School, New Boston, OH** - \$19.2 million
- **Edgerton Local School District Project, Edgerton, OH** - New 50,000 SF addition, \$18.6 million
- **Washington-Nile Local School District, New Portsmouth West Middle School, Portsmouth, OH** - New 67,457 SF, \$17 million

Ohio Turnpike Commission (OTC), OTC Service Plazas, OH

Assigned to multiple service plaza demolition and construction projects on

Education:

B.S., Structural Design and Construction Engineering, Pennsylvania State University, 1994

A.S., Civil Engineering, Pennsylvania State University, 1992

Certificate, OSHA 10 Hour, Occupational Safety and Health, 0

Certificate, OSHA 29 CFR 1926.62, Lead Exposure in Construction, 0

Certificate, Certified Construction Claims Specialist, Bricker and Eckler, 2009

Registrations:

Certified Construction Manager

LEED Accredited Professional

Professional Engineer, Ohio

Professional Engineer, Pennsylvania

Professional Memberships:

Construction Management Association of America (CMAA)

Ohio Contractors Association

the Ohio Turnpike, Mr. Fritz managed construction, oversaw field operations, and provided technical guidance. Specifically, his projects included:

- **Blue Heron and Wyandot Service Plazas, Genoa** - As Project Engineer responsible for providing construction management services, Mr. Fritz performed preconstruction duties such as constructability reviews, scheduling, and estimating for the \$25 million demolition and reconstruction of two service plazas on the Ohio Turnpike.
- **Middle Ridge and Vermilion Valley Service Plazas** - This \$29 million project consisted of the building of two service plazas on the Ohio Turnpike. Civil site work involved the construction of ramps, pavement, and canopy; the installation of drainage systems; and the removal and replacement of fuel tanks. Building work comprised the complete demolition of existing facilities and the construction of general office space, restaurant and eating areas, storefronts, common areas, and restrooms. As Resident Engineer, Mr. Fritz oversaw field operations and provided management and technical direction throughout both projects.

City of Lorain, Lorain Police Facility, Lorain, OH

Hill provided construction management services for the \$7 million expansion and renovation of the city's police facility and jail. The building, located adjacent to City Hall, served the needs of the City of Lorain Police Department with administrative and detention facilities. A new one-story, 26,000 SF addition was constructed that housed the new jail and contained a mezzanine for the two-story jail pods. In addition to connecting to the existing police facility, the jail had a basement corridor for safely transporting prisoners to the courtrooms.

The basement, first, and second floors of the building were also renovated. The 7,000 SF basement renovation involved construction of new locker rooms and a larger exercise room. The project also included the building of a new entranceway and reception area for the existing City Hall, as well as a community room for meetings.

As Project Manager, in addition to assuming overall accountability of preconstruction services, field operations, and management and technical direction, Mr. Fritz performed office engineering duties (e.g., review of quality and safety plans and shop drawings). He also coordinated the federal Hazardous Waste and Toxics Reduction (HWTR) Program elements of the project, including demolition of areas with asbestos-containing materials, excavation and disposal of underground storage tanks and petroleum-contaminated soils, and removal of lead abatement at an indoor firing range.

City of Lakewood, City of Lakewood Municipal Projects, Lakewood, OH

Hill was awarded a task order contract to provide construction inspection services for municipal projects on behalf of the City of Lakewood. As the oldest suburb of Cleveland, both the city government and the residents wanted to maintain the city's historic character. Work included the reconstruction of historic Grace Avenue, installation of a new sewer system and waterlines, and construction of a wastewater treatment plant. Mr. Fritz was brought on as Project Engineer to manage the inspection staff and provide technical support.

Thomas H. Wilson, Jr., PSP

Senior Scheduler

Education:

B.S., Construction
Engineering Technology,
Spring Garden College, 1980

Registrations:

Planning and Scheduling
Professional

Thomas H. Wilson, Jr., a Planning and Scheduling Professional, has more than 30 years of engineering and construction management experience in educational facilities; justice facilities; transportation, railway, and vehicular bridges; medical facilities; wastewater; and structural buildings. He has developed, maintained, and monitored various projects extensively utilizing *Primavera Project Planner* scheduling (and successfully migrated to the updated *Oracle/P6 version*) and *Project Management System*, change order review, and cost estimating. Mr. Wilson's responsibilities have included civil and structural inspections, project quality control, and value engineering. He has worked on various assignments developing schedules for presentations, new project baselines, and technical support for existing facilities. His background also includes claims analysis.

Recent and Relevant Experience

National Heritage Academy (NHA) Charter Schools, Nationwide

As Senior Scheduler, Mr. Wilson developed the Grand Master schedule for 12 additional charter schools throughout the nation to permit the client the ability to better manage the expeditious release of each facility and be able to plan when or if additional personnel will be needed for the portion of work that NHA executes, at each site.

School District of Philadelphia, Delaplaine MacDaniel School, Philadelphia, PA

As Cost Estimator and Senior Scheduler, Mr. Wilson is working with our current on-site representative to develop a preliminary report on the probability for a claim from the general contractor on this project, based upon information in the current and historical project schedules.

Upper Moreland School District, Upper Moreland High School, Willow Grove, PA

As Senior Scheduler, Mr. Wilson attended bi-weekly project and scheduling meetings as requested by the client. He updated and produced reports for the client biweekly and distributes and discusses the same at each meeting. Monthly administrative updates were also produced for the client.

Upper Macungie School District, Upper Macungie Elementary School, Upper Macungie Township, PA

As Senior Scheduler, Mr. Wilson is currently working with Hill's Project Manager to update, monitor, and provide schedule plots for review by team members and the client. The current schedule monitors the design efforts and reflects timeframes for the construction portion of the project.

Methacton School District, Skyview Upper Elementary School & Arcola Intermediate School Renovation, Norristown, PA

Hill provided full construction management services from design through construction for two schools, a new 90,000 SF building addition Skyview Upper Elementary School and 342,000 SF renovation of the existing Arcola Intermediate School. As Senior Scheduler, Mr. Wilson provided the development of scheduling specification for inclusion into the contract documents. He provided contractor assistance for developing their individual project schedule and then oversaw and led the development of the combined project schedule. He implemented a schedule-based payment schedule and introduced *P6* web-based updates on this project.

Methacton School District, Woodland Elementary School, Eagleville, PA

Hill provided full construction management services from design through construction for two schools in the Methacton School District. The \$14.4 million Woodland Elementary School will have major additions for classrooms, gymnasium, and administration space. The entire school will be renovated with new infrastructure, including a new geothermal HVAC system, expanded toilets, and new electrical distribution and tele/data systems. As Senior Scheduler, Mr. Wilson reviewed and commented on the contractor's summer project schedule.

Parkland School District, Fred J. Jandl Elementary School, Upper Macungie Township, PA

Hill provided full construction management services from design through construction for a new \$21.4 million elementary school in the Parkland School District. The new Jandl Elementary School consists of a free-standing one-story elementary school building near Allentown, PA, of approximately 76,500 SF in floor area. The building includes, among other spaces, around 36 classrooms, an art room, an office suite, support spaces, a multi-purpose room, a cafeteria, and a library. A ground source heat pump geothermal system was included as part of this project. LEED Silver Certification was sought on this project. As Senior Scheduler, Mr. Wilson worked with Hill's Project Manager to update, monitor, and provide schedule plots for review by team members and the client. The schedule monitored the design efforts and reflected timeframes for the construction portion of the project.

Prior Experience

New Jersey School Development Authority (formerly New Jersey Schools Construction Corporation), NJ

Construction of schools in the State of New Jersey's 30 "Special Needs Abbott Districts", and districts that receive more than 55% in state aid, are managed by Project Management Firm Teams (PMFs). Mr. Wilson's firm provided full CPM scheduling services for the duration of each project. Utilizing *Primavera P3* software, initial master schedules were created covering the entire project life, from master planning through construction. As each project moved ahead, his firm prepared detailed pre-development phase schedules (feasibility studies and property acquisition), cost-loaded design phase schedules (schematic, design development, and construction drawings), and a design phase construction schedule. When the construction contract was awarded, his firm reviewed and approved the contractor's baseline construction schedule. Actual performance vs. planned progress was evaluated monthly, and then monthly reports were prepared to describe progress, current issues, critical activities, and changes in milestone activities.

A cash-curve graph was prepared for the design and construction phases to show actual vs. projected construction costs. Mr. Wilson's duties included master CPM schedule development, contractor schedule review, weekly schedule update reviews, cost loading, claims review, and time impact analysis.

Princeton University, Building Program, Princeton, NJ

As part of the construction management team for this \$60 million project, Mr. Wilson acted as a liaison between Princeton's management staff and the prime contractors for three simultaneous building projects. His responsibilities included quality control review of work in place, daily inspections, deficiency reporting, and review of project schedules. He also verified the contractor's monthly payments, made appropriate recommendation to management, and processed and verified the various punch lists generated.

Trenton State College, Kendall Hall Addition and Renovation, Trenton, NJ

As Scheduler, Estimator, and Site Inspector for this \$10 million project, Mr. Wilson developed, implemented, and maintained a complete cost-loaded project schedule. He utilized this schedule during construction to monitor, update and assimilate the monthly and forecasted schedule and cost projections. This enabled him to prepare comprehensive monthly reports for college management.

Richard Stockton College of New Jersey, Library Renovation and Additions, Pomona, NJ

As Scheduler, Estimator and Site Inspector providing scheduling and project controls for this project, Mr. Wilson's duties included monitoring and updating of the project schedule and utilizing the information to produce contractor's pay requisitions for submission to the New Jersey Department of Building and Construction on a monthly basis. He also produced bimonthly construction schedule reports and monthly cost reports for Stockton State College. These reports allowed the client to see the status of the project, the progress, as well as the past, current and future financial obligations they could expect based on current project progress and schedule information.

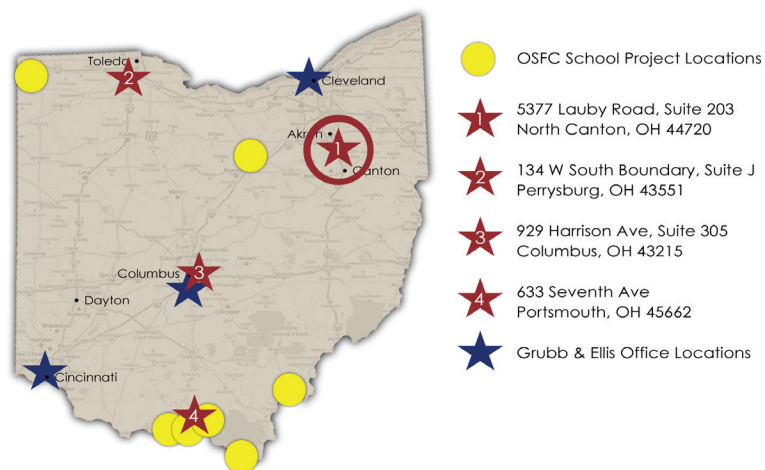
Hunter College, New York City, NY

As Scheduler, Estimator, and Site Inspector, Mr. Wilson was involved in the scheduling of this project utilizing Primavera P3 to maintain and assist the construction management team with job progress and monthly payments. He also worked on a claim for the New York City School Construction Authority (NYCSCA) related to this project. His work involved reviewing daily reports, change orders, manpower reports, and the project schedule. The analysis led to high-level negotiations at which all concerned parties arrived at an amicable solution in one session.

B.3 Local Participation

Hill's North Canton office located at 5377 Lauby Road, as illustrated on the map on the right, is within one hour of the District's office. This office provides personnel in all of the disciplines required by the District's project and can be deployed to the District during all project phases. In addition to the resources of our North Canton

office, we have the support of an additional three offices within the state of Ohio. If necessary, the North Canton office can draw from either this pool of professional staff, the Pittsburgh regional office, or any corporate Hill office, to ensure the District has the best available resources.



Assisting Hill on this assignment will be one of the largest and most respected commercial real estate services and investment firms in the world, Grubb & Ellis Company. Its 5,200 professionals in approximately 130 company-owned and affiliate offices draw from a unique platform of real estate services, investment products, and specialty practice groups to deliver integrated solutions. Their local office, Grubb & Ellis Cleveland, established in 1987, provides a full range of real estate client advisory services for the Northern half of the state of Ohio. Backed by the depth of corporate resources, their professionals contribute to the success of their clients by providing them with the most current information and the highest level of service available in Ohio.

Approximately 500 professionals in Grubb & Ellis offices throughout the country participate in more than 30 practice groups. These knowledge networks deliver unmatched expertise and customized services for issues clients are facing today – and offer valuable insight when it comes to planning for the future. As members of the only formal real estate practice dedicated to the needs of clients in the expanding education sector, professionals in the **Education Practice Group** possess unique capabilities and deep understanding of the motivations and requirements associated with education-related property. From charter schools in a single location to large school districts, universities and multi-market educational centers, we help institutions and corporate entities formulate and implement short- and long-term strategic real estate plans.

B.4 Sustainability

As a leader in managing construction risk for some of the world's largest clients, Hill recognizes its ability to positively affect the circumstances of our global environment. As such, we encourage clients to view sustainability as an inherent and pervasive component of the building process, enhancing the long-term cost performance of the project, the productivity and well-being of the building's occupants, and delivering leadership in environmental stewardship and social responsibility.

Though our extensive background, involvement, and project experience in the U.S. Green Building Council (USGBC) and its Leadership in Energy and Environmental Design (LEED®) benchmark process, Hill can provide clients the expertise necessary to quickly surmise a project's potential for certification

in relationship to the opportunity costs. Hill generates a LEED "scorecard" early in the planning process at the Conceptual Cost Estimate stage, providing a snapshot of initial project considerations and restrictions in relationship-to-certification goals. As certification goals are established throughout the design process, our cost team fosters quick and efficient decision making, increased construction document accuracy, reduced chances of errors and omissions, and certification progress tracking throughout. Hill's philosophy and expertise in sustainable design differentiates us from other professional cost estimating firms, as evidenced by the more than 100 LEED accredited professionals Hill has on-staff.



Hill's Cost Estimating capabilities play a vital role in achieving sustainably designed project delivery **on-time and on-budget**. We deliver on this commitment through our:

- Extensive Green Building Project Experience
- Expertise in Accurate Cost Estimating Pre-design/Conception
- LEED Scorecard Generation early in the Planning Stage
- Comprehensive Green Building Cost Database

Hill was one of the first Cost Estimating teams worldwide to incorporate newly published green building cost data with its own extensive internal historic LEED project data. Hill provides the tools to quickly surmise a project's certification potential by identifying the "low hanging fruit" at the concept level, then providing the data necessary to consider budgeting and scheduling scenarios when considering "yes", "nos", and "maybes" throughout design on the LEED scorecard. As an integral part of the team, Hill provides data used as a real-time analytical tool in a Charrette setting to address the cost and scheduling implications associated with systems and applications being considered for reaching various levels of LEED.

Hill provides clients the experience and expertise to navigate design and construction team members through the certification process, reducing learning curve related incremental costs, providing solid cost estimating, and assuring that LEED requirements are incorporated throughout plans and specifications. Our cost team provides a solid foundation for constructability reviews and value engineering during LEED

point analysis at all stages of design. The Hill team continues throughout construction, to substantial completion, final commissioning, and post occupancy. Hill's vast experience and "lessons learned" in the LEED submittal and approval process helps to avoid certification delays that are caused frequently from issues uncovered in the post occupancy audit stage.

Hill has represented clients on projects seeking green building certifications ranging from the nation's tallest LEED Gold high-rise building, to one of the first LEED Platinum mixed-use campuses. Most germane to this project are Hill's ongoing Ohio State Facilities Commission projects (New Boston, Clay Local, Washington-Nile, and Edgerton Local) will all be LEED Silver Certified projects. Whatever your sustainable goals, Hill provides you the confidence of properly evaluated and implemented systems and strategies applicable and beneficial to your specific project requirements.

B.5 Master Planning

The Hill team fully understands what school construction is all about having completed more than 85 PK-12 school projects in the Mid-Atlantic region in the past 10 years and having over \$4.4 billion worth of PK-12 experience nationwide in the past 5 years. Our role by design is usually collaborative, providing expertise to owners and their master planning consultants regarding construction and operational costs, constructability, and master scheduling direction for their capital projects.

Hill's approach to school projects is founded on the concept that the children and the community come first. We must listen and understand how the District operates, perhaps the major tenet of a Master Plan. This understanding, combined with a full working knowledge of the Master Plan, either developed internally or commissioned by the Owner, and an understanding of OSDM requirements, will lead to a project that meets the specifications of the Owner.

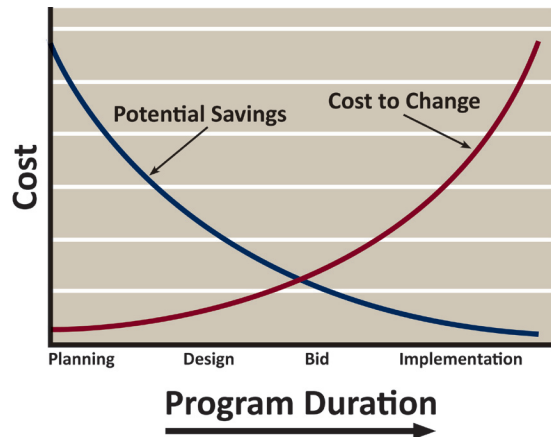
Based on our understanding of PK-12 school construction, Hill has identified key project aspects where we will be closely working the Master Planning Consultant.

Educating the District

Hill will be in lockstep with the Master Planning Consultant to help guide the District in many situations that may represent new processes or unfamiliar decisions. Issues such as determining whether renovation is a better option than new construction, or reviewing site selection from a construction standpoint are part of the processes where Hill can assist the Master Planner and Owner. Our experience tells us that every part of the plan affects something further down the line whether it be materials selection, environmental factors, or utilities. It is best described as an integrated system. Our team can also provide expertise to the Master Planning Consultant, as needed, and the District on understanding the design and construction process in regards to the OSFC CFAP program. Based on our understanding that the District will possibly be seeking OSFC reimbursement and examining of any and all State funding programs that may reduce the community's cost, we anticipate that key administrators may possibly be experiencing their first significant capital improvement program, or their first OSFC program. Hill is prepared to present materials to the District in a clear and concise fashion to make it understandable to individuals of differing experience levels.

Budget Management

Hill will keep all project stakeholders and their designees informed regarding budget matters. We understand that the project extends beyond construction costs. In order for the Facility Master Planner and other project team members to make informed decisions, Hill will track the construction costs coupled with the soft costs throughout the project phases to present a true progress of the budget. In tracking the total budget, informed decisions can be made with respect to material selections, use of LFI dollars, scheduling, and costs with respect to construction phase changes.



Value Engineering

Hill will work closely with the Owner and their Planning Consultant to identify alternate designs that provide a more cost-effective project while maintaining the same level of service. This process begins in the pre-construction phase of the project and will continue during construction with additional input from contractors and suppliers.

Schedule Management

The Hill team will start early on in the program to develop a strategy with the District consultant to set the Master Plan Schedule. Along with input from the architect, this monitoring document will guide the Construction Management team through the program. The developed schedule will set milestone events in conjunction with items such as OSFC policy requirements. We will work with the District's Planning Consultant in documenting the tasks that will eventually lead to bidding the construction projects. Hill will share its expertise to task, list, and identify the steps and durations to sequence the events leading up to the construction phase of the program. Prior to construction, a cost loaded detailed schedule will be developed for any major construction contract to verify optimum contract time and to determine cash flow requirements for financial planning. To keep in sync with the objectives of the Master Planning Consultant, Hill can provide an updated schedule on at least a monthly basis to report progress, changes to logic or duration, and the inclusion of any schedule revisions required of the program.

Quality Control

Quality control begins in the pre-construction phase and includes design coordination tasks such as the review of design features for conformance with program requirements, permitting, material specification review, and compliance for jurisdictional approvals. These tasks are designed to keep the program on track as they are the first defense against cost escalation and claims during construction, and a lack of quality during construction.

Communication and Responsiveness

Hill will be responsive to the Owner and their Planning Consultant by providing communication that is timely and organized. We will use all tools available to assure that the team is well informed including:

- Formal team meetings
- Informal stand up face-to-face meetings
- Specific progress reviews
- Working meetings
- Electronic media messaging
- CAD technology
- Teleconferencing and websites

B.6 Owner's Schedule

The Hill team is proposing a staff that is technically qualified to perform the work required and have been quite careful to select only those individuals who are available at the appropriate time.

Hill's Project Manager, Chief Estimator, and Lead Constructability Reviewer will make up the core team for the project. The Cost and Constructability Review team will be led by Project Manager, Todd Cooper, PE, LEED AP, AVS. Mr. Cooper will serve as the point of contact for the District and the Master Planning Consultant and will be present at all meetings for the project. Gerald Griffaton, PSP, Chief Estimator, and Lance Rothstein, AIA, Lead Constructability Reviewer, will also participate in meetings as needed during the initial master plan development phase. Their presence will be necessary should it be wished to facilitate immediate feedback on master plan concepts.

Once the master plan concepts are developed, the Cost Analysis team will be led by Mr. Griffaton. He will coordinate the efforts of our discipline specific experts who will assemble detailed cost estimates for each master plan concept. Hill also possesses and/or can access additional expertise in operations and real estate. We will identify specialists to focus on operational costs and savings and possible opportunities for real estate redevelopment.

Our Constructability Review Team will bring their diverse background to analyze the concepts for possible constructability issues. Our team, consisting of a professional architect, a professional engineer, LEED professionals, and professional construction managers, will use their construction knowledge to develop phasing plans and schedules for each concept.

Once the Cost Analysis team and Constructability Review team are complete, we will conduct a series of facilitated Estimate Reconciliation and Constructability Meetings. In these meetings we will utilize the knowledge gained by both teams to review our work product and make sure all information has been properly checked and rechecked and that no ideas go unrealized. Hill will also bring in various "cold" staff who have not participated in the detailed process to test all analysis using outside opinions. The District and Master Planning Consultant will also be encouraged to participate in these meetings to gain insight into how the Hill team has developed its final recommendations.