cityofnovi.org

# CITY of NOVI CITY COUNCIL

**Agenda Item C**
**January 7, 2008**

**SUBJECT** Approval to award bid to Integrated Design Solutions, the lowest qualified bidder, in the amount of $34,570 for Engineering, Design and Construction Management Services for Ella Mae Power Park Sports Field Lighting.

**SUBMITTING DEPARTMENT**: Parks, Recreation, & Forestry

**CITY MANAGER APPROVAL:**

| | |
|---|---|
| **EXPENDITURE REQUIRED** | **$34,570** |
| **AMOUNT BUDGETED** | **$560,000** |
| **APPROPRIATION REQUIRED** | **N/A** |
| **LINE ITEM NUMBER** | **208-691.00-974.000** |

**BACKGROUND INFORMATION:** In July 2007, City Council allocated $560,000 for engineering, design and installation of sports field lighting on four ball fields at Ella Mae Power Park. The department's objective is to design, engineer, and install sports field lighting on four athletic fields at Ella Mae Power Park. These lights will replace existing 25 year old lighting. The new system will be designed to be energy efficient, reduce light spill onto adjacent neighborhoods, enhance infrastructure, and provide adequate lighting for park patrons. The completion of this project in 2008 will closeout phase II of a three phase renovation schedule for Power Park.

On November 15, 2007, proposals were received from seven firms to provide engineering and design services for the proposed sports field lighting project. These services included, but were not limited to, preparation of all construction documents, submission of applications and documents for review, and construction inspection during the active construction phase. The selected firm will also be accountable to review all pay estimates, attend meetings as requested, and work with staff to design a functional, environmentally friendly lighting system.

Each of the seven proposals were evaluated using a Qualified Based Selection Process (QBS). The proposals were individually ranked by Community Development, Engineering, and Parks staff. The QBS process evaluates the fee for completing the work, and a number of other factors including: background of firm, evaluation of approach, schedule and proposed staff, evaluation of statement of understanding for the project, analysis of subjective statements applicable to the project as required on the RFP (value added items), and related experience. The outcome of this process is a recommendation to award the engineering contract to a firm that has developed a well thought out approach to the project, identified potential problems and corresponding solutions, and provided a schedule that is feasible and aligned with the city's expectations. These factors are important because they directly affect the success of a project, especially during the construction phase when incomplete design engineering can result in construction contract change orders, thus making the project more expensive.

The ranking matrix below summarizes the results of the proposal review process using estimated construction cost of $550,000:

| Firm | Not-to-Exceed Design Fee | Const. Cost Estimate | Fixed % of Const. | Const. Phase Fee | Total Estimated Fee | Staff Review Score | Proposal Rank |
|---|---|---|---|---|---|---|---|
| Integrated Design Solutions | $23,900 | $550,000 | 1.94% | $10,670 | $34,570 | 559 | 1 |
| Multi Tech Resources | $27,000 | $550,000 | 5.00% | $27,500 | $54,500 | 529 | 2 |
| Landscape Architects & Planners | $26,966 | $550,000 | 1.8% | 9,900 | $36,866 | 477 | 3 |
| DiClemente Siegel | $37,555 | $550,000 | 1.6% | $8,800 | $46,355 | 439 | 4 |
| Wilcox Professional Services | $26,650 | $550,000 | 2.7% | $14,850 | $41,500 | 438 | 5 |
| Fishbeck Thompson Carr & Huber | $28,966 | $550,000 | 4.667% | $25,669 | $54,635 | 335 | 6 |
| Diffin Development | $20,000 | $550,000 | 4% | $22,000 | $42,000 | 110 | 7 |

**RECOMMENDED ACTION:** Approval to award bid to Integrated Design Solutions, the lowest qualified bidder, in the amount of $34,570 for Engineering, Design and Construction Management Services for Ella Mae Power Park Sports Field Lighting.

| | 1 | 2 | Y | N |
|---|---|---|---|---|
| **Mayor Landry** | | | | |
| **Mayor Pro Tem Capello** | | | | |
| **Council Member Crawford** | | | | |
| **Council Member Gatt** | | | | |

| | 1 | 2 | Y | N |
|---|---|---|---|---|
| **Council Member Margolis** | | | | |
| **Council Member Mutch** | | | | |
| **Council Member Staudt** | | | | |

# MEMORANDUM

cityofnovi.org

**TO:** RANDY AULER, PARKS, RECREATION & FORESTRY DIRECTOR

**FROM:** MATT WIKTOROWSKI, SUPERINTENDENT OF PARKS

**SUBJECT:** ENGINEERING AND DESIGN RECCOMENDATION FOR ELLA MAE POWER PARK SPORTS FIELD LIGHTING

**DATE:** 12/28/07

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In July 2007, City Council allocated $560,000 for engineering, design and installation of sports field lighting on four ball fields at Ella Mae Power Park. These lights will replace existing 25 year old lighting. The new system will be designed to be energy efficient, reduce light spill onto adjacent neighborhoods, enhance infrastructure, and provide adequate lighting for park patrons.

On November 15, 2007, proposals were received from seven firms to provide engineering and design services for the proposed sports field lighting project. These services included, but were not limited to, preparation of all construction documents, submission of applications and documents for review, and general project management guidance to staff through the construction phase. The selected firm would also be accountable to review all pay estimates, attend meetings as requested, and work with staff to design a functional, environmentally friendly lighting system.

After participating in the Qualified Based Selection Process (QBS), the proposals were individually ranked by Community Development, Engineering, and Parks staff. It was determined that Integrated Design Solutions regularly scored higher in evaluation categories than each of the other six consulting firms. It is my recommendation to award the contract for Engineering and Design Services for Ella Mae Power Park Sports Field Lighting to Integrated Design Solutions for a not to exceed fee of $34,570 based on and construction cost estimate of $550,000. If you have any questions please contact me at your earliest convenience

CITY OF NOVI
ELLA MAE POWER PARK SPORTS FIELD LIGHTING
QUALIFICATIONS EVALUATIONS
2007

| Staff | DiClemente Siegel | Diffin Development | Fishbeck Thompson Carr & Huber | Intregated Design Solutions | Landscape Architects & Planners | Multi Tech resources | Wilcox Professional Services |
|---|---|---|---|---|---|---|---|
| Coburn | 120 | 25 | 85 | 138 | 143 | 128 | 61 |
| Croy | 86 | 35 | 137 | 94 | 90 | 102 | 156 |
| Duvall | 115 | 25 | 50 | 175 | 138 | 162 | 135 |
| Wiktorowski | 118 | 25 | 63 | 152 | 104 | 137 | 86 |
| **Total** | **439** | **110** | **335** | **559** | **475** | **529** | **438** |

Evaluation of Firm Background
Evaluation of Approach, Schedule, and Proposed Staff
Evaluation of Statement of Understanding of Project
Analysis of subjective statements applicable to the project as required on the RFP
Related Experience: Design/Engineering Services, similar projects (municipal)

Integrated Design Solutions

888 W. Big Beaver, Ste. 200
Troy, MI 48084
tel 248.823.2100
fax 248.823.2200

www.ids-troy.com

November 14, 2007

Ms. Carol J. Kalinovik
Purchasing Director
City of Novi
45175 W. Ten Mile Road
Novi, MI 48375-3024

Subject: Proposal for Professional Services
City of Novi
Ella Mae Power Park Sports Field Lighting

Dear Ms. Kalinovik:

**Integrated Design Solutions, LLC (ids)** is pleased to offer the services of our staff to the City of Novi for engineering and design services for Ella Mae Power Park Sports Field Lighting. We have reviewed your Request for Proposal dated October 26, 2007. The following is our understanding of the project and the services to be provided.

**PROJECT DESCRIPTION**

The City of Novi intends to install new athletic field lighting at Ella Mae Power Park located on the South side of Ten Mile Road, West of Novi Road. The lighting is intended to replace an existing system that currently illuminates four adult softball fields, and enhance both infield and outfield lighting while minimizing or eliminating light spill into the surrounding subdivisions.

The proposed project budget is $560,000 including engineering, design, installation and completion of the project. Design phase completion is expected within 30 days of award.

**SCOPE OF PROFESSIONAL SERVICES**

Services provided by **ids** will include:

1. Electrical engineering services.
2. Design of an athletic field lighting system that will provide 50/30 footcandle ratio to the playing surface.
3. Enhance infrastructure for future electrical needs (i.e. scoreboards, pedestrian lighting).
4. Site layout (identification of existing amenities, proposed locations for future lighting and staking).
5. Landscape design (not to exceed site restoration and remain compliant with all local landscape ordinances).

6. Identification of utility connections with existing electric service and coordinate upgrades as necessary.

7. Complete construction documents and specifications for bidding to General Contractors.

8. Submission of documents and applications to the City of Novi Planning Commission, Zoning Board of Appeals, and Building Department for approvals and permits as required (fees will be waived).

9. Development of an action plan for existing light fixtures and poles.

10. Attend a scope verification meeting the City staff. Visit the site and become familiar with existing conditions.

11. Prepare plans, specifications and cost estimates for the project meeting the scope of services above issued as one bid package.

12. Prepare a site plan meeting the City requirements for projects that will require site plan approval and/or building permits. **ids** will act as City's agent to obtain site plan and/or permit approvals required for completion of the project.

13. Contact and coordinate with all utility companies with facilities within the project boundary.

14. Attend Novi City Council meetings and public informational meetings and prepare exhibits and other display material that may be needed to present the project.

15. Prepare bid documents and provide assistance to the Superintendent of Parks and Purchasing Departments with the bidding of the project, including coordinating and facilitating the pre-bid meeting, preparation of contract addenda, plan revisions, responding to bidder inquiries, review of bids and recommendation of award to the Superintendent of Parks.

16. Review of shop drawing submissions.

17. Site visits as necessary to become generally familiar with the progress of construction and assure the construction is being performed in accordance with the construction documents.

18. Processing of contractor payment applications, addenda and bulletins.

19. Review of project closeout documentation from the contractor.

20. Contract administration services will include reviewing shop drawings furnished by the contractor at the pre-construction meeting, coordinating and running the pre-construction meeting, ensuring compliance with contract documents, regular consultation with Superintendent of Parks, interpretation of plans and specifications, preparation and certification of pay estimates, staking, full-time construction inspection during active construction, and materials testing along with final testing and project review. The Consultant must also promptly attend to resident concerns and complaints as they become known.

21. Construction phase services will also include submittal to Superintendent of Parks of all project reports and documents and written recommendation regarding final acceptance of the project. The Consultant, within this phase, will also prepare record drawings and transmit one (1) mylar copy, two (2) plan copies, and a CD containing the digital file of the record drawings in the City standard format, and provide such information to the Parks Division within three (3) months following substantial completion of the project.

**DOCUMENT AND FILE FORMAT**

All documents will be submitted to the City of Novi in an electronic format as follows:

1. Documents: MS Word
2. Digital Copies of Drawings: AutoCAD format (.dxf)
3. All digital data will correspond to:
    a. Project: State Plane Coordinate System, Michigan, South Zone – 6401
    b. Datum: NAD83
    c. Spheroid: GRS1980
    d. Units: International Feet

**CLIENT RESPONSIBILITIES**

It is understood that City of Novi will provide the following information and/or assistance to **ids**:

1. Assignment of a single Project Manager to serve as liaison between City of Novi and **ids**.
2. The City will provide information as needed and available in the form of standard details, specifications, benchmarks, etc. to assist **ids** in completing the work.

3. Site survey including property lines (and adjacent properties, if required by local jurisdiction), above and below ground utilities, site improvements and topographic information.

4. Geotechnical investigation and report.

5. Electrical detailed record drawings of existing lighting and power systems.

6. Field occupancy schedules and operating schedules for lighting control setpoints.

7. Electric utility data for all meters for existing lighting.

8. One-line diagram of electrical power distribution system including load summary of panelboards and locations on the site.

9. Operational personnel to be present during **ids** field investigations.

10. If required, engage the services of qualified personnel for evaluation of the presence of hazardous materials, testing and remediation, if required.

**CONSULTANTS**

We do not anticipate the use of consultants for any of the design aspects of this project inasmuch as the anticipated design skills fall well within the capability of our staff. If special needs arise for which it is mutually agreed that the services of outside consultants are to be employed, such special services will be discussed with City of Novi at the appropriate time.

**FEE**

See Exhibit "A" under separate cover.

**CHANGES AND ADDITIONAL WORK**

See Exhibit "AA" under separate cover.

For additional work or changes in scope, we will provide the services of our staff on an hourly basis in accordance with the attached classification billing rates plus reimbursable expenses.

**REIMBURSABLE EXPENSES**

See Exhibit "AAA" under separate cover.

**INVOICING PROCEDURES**

Invoices for our services will be submitted every four (4) weeks. Payments against our invoices will be expected within thirty (30) days from receipt of invoice. Payments not received within this time frame will be assessed a finance charge of 1% per annum over the current prime rate for each month it remains overdue. Invoices for reimbursable expenses will be submitted at the same time when incurred during the invoicing period.

**PROJECT SCHEDULE**

We can begin work two (2) weeks after your written authorization to proceed and we anticipate thirty (30) work days for completion of the project.

**INSURANCE**

For the protection of our clients as well as our firm, we carry insurance protection including professional liability insurance. The extent and types of insurance are as you have indicated in your RFP, Attachment A.

**TERMINATION OF AGREEMENT**

In the event the project is abandoned or the agreement terminated, we request seven (7) days written notice from the City of Novi and we are to be reimbursed for all services performed and costs incurred up to the termination date on an hourly basis in accordance with the attached classification billing rates plus reimbursable expenses.

Integrated Design Solutions, LLC has the resources and expertise to successfully complete this project for the City of Novi. We truly appreciate this opportunity to serve you. If you have any questions regarding our proposal or wish to discuss any aspect of the project, please contact us.

Sincerely,

**INTEGRATED DESIGN SOLUTIONS, LLC**

Richard L. Bracci, PE
Senior Vice President

**ACCEPTANCE**

_____
Signature

_____
Name (Please Print)

_____
Title

_____
Date

_____
*Purchase Order No. (when applicable)

*Please reference our proposal on your purchase order as follows:

Terms and conditions shall be in accordance with the attached proposal from Integrated Design Solutions, LLC dated November 14, 2007. This proposal will remain in effect for a period of 90 days. After that time, **ids** will review and modify the proposal as required.

# Firm Overview

**NAME AND MAILING ADDRESS**

Integrated Design Solutions, LLC
888 W. Big Beaver, Suite 200
Troy, MI 48084

**FORM OF OWNERSHIP**

Limited Liability Corporation

**HISTORY**

**Integrated Design Solutions** was founded in November 1999 by the seven former principals of Giffels Hoyem Basso, LLC (GHB), who practiced together there as managing partners for ten years. The acquisition of GHB by IDS strengthens our long-standing history, as the firm celebrates over 40 years in the A/E profession.

The history of the firm that is now IDS was founded in 1963 and has undergone a number of important professional evolutions. Each milestone in our firm's history added specific disciplines and talents that enable us to strengthen our service base and meet our clients' needs. A summary of major milestones follows:

| | |
|---|---|
| 2000 | IDS purchased Giffels Hoyem Basso |
| 1999 | IDS created by former GHB managers |
| 1999 | GHB and Giffels Companies purchased by ARCADIS |
| 1981 | GHB formed when Hoyem-Basso Associates purchased by Giffels Associates, Inc. |
| 1977 | Registered Architects from Swanson Associates bring architectural capabilities to Hoyem Basso Associates |
| 1976 | Hoyem-Basso Associates, Inc. is formed |
| 1973 | Acquisition of McAlpine Engineering and Map Co. |
| 1970 | Merger with Arthur S. Gillespie Associates to Hoyem Associates, Inc. |
| 1968 | Basso, Adams and Martin join Gordon Hoyem |
| 1963 | Founded by Gordon E. Hoyem |

# Firm Overview

## Contact Information


**Company Name:** Integrated Design Solutions

**Contact:** Phyllis A. Flanigan, Business Development

**Address:** 888 W. Big Beaver, Suite 200

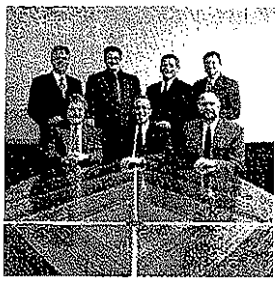
**Phone:** (248) 823-2115

**Fax:** (248) 823-2200

**Website:** www.ids-troy.com

**E-mail:** pflanigan@ids-troy.com


## Ownership



| | | |
|---|---|---|
| **Ownership/ Principals** | Paul A. Stachowiak, AIA<br>President | |
| | Richard J. DeBeliso, PE<br>Executive Vice President | |
| | Richard L. Bracci, PE<br>Senior Vice President, Director of Electrical Engineering & Technology Services | |
| | Kirk H. Delzer, AIA<br>Senior Vice President, Director of Architecture | |
| | David M. DiCiuccio, PE<br>Senior Vice President, Director of Mechanical Engineering | |
| | Charles E. Lewis, Jr., AIA<br>Vice President, Assistant Director of Architecture | |
| | Michael C. Nowicki, PE<br>Vice President, Assistant Director of Electrical Engineering & Technology Services | |
| **Structure** | A Michigan Limited Liability Corporation (LLC) | |
| **Stockholders** | Senior Associates<br>Michael C. Barath, AIA<br>David S. Battle, AIA, LEED™ AP<br>Ronald G. Cyrowski<br>Phyllis A. Flanigan<br>Ann K. Green, IIDA | Associates<br>Michael D. Barden, LC<br>Lawrence C. Hamilton<br>Josephine Horner, Business Mgr.<br>Jeffrey D. Johnson, AIA<br>William T. Lee<br>Richard L. Newlin, AIA<br>Dominic Paone, LEED™ AP<br>Donald T. Root, AIA<br>Bruce J. Snyder, C.E.M.<br>Jeffrey J. Zona |

## Resources

| Position | # of employees by job classification | Licensed | Earned Degree | Certi-fication | Other |
|---|---|---|---|---|---|
| Architects | 24 | 11 | 10 | 0 | 3 |
| Project Managers | 3 | 2 | 1 | 0 | 0 |
| Specifications | 1 | 1 | 0 | 0 | 0 |
| Mechanical engineers | 14 | 3 | 6 | 1 | 4 |
| Electrical engineers | 15 | 4 | 6 | 2 | 3 |
| Interior designers | 7 | 4 | 2 | 0 | 1 |
| Field supervisors | 4 | 3 | 1 | 0 | 0 |
| Technology Design | 3 | 0 | 2 | 1 | 0 |
| Administrative | 6 | 2 | 2 | 0 | 2 |
| Clerical | 5 | 0 | 0 | 0 | 5 |
| Energy management | 3 | 0 | 2 | 1 | 0 |
| **TOTAL STAFF** | **85** | **30** | **32** | **5** | **18** |

## Summary of Services

**Architectural**
programming, architectural design, master facility planning, feasibility analysis, facilities management, construction phase services, cost control and estimating, value engineering

**Engineering**
power systems design, interior/exterior lighting design, fire alarm and communication systems design, plumbing and HVAC design, energy audits, construction phase services, cost control and estimating

**Interiors**
space planning, finishes, furniture, fixtures, equipment, signage

**Technology**
master planning, digital/video local and wide-area networking, wireless networks, RF broadband systems, digital/analog voice communication systems, firewalls, program management, security systems, construction phase services, technical support

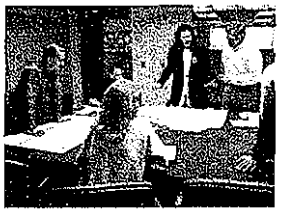
## In-House Services

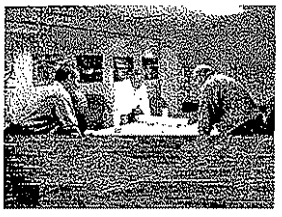
| Service/Discipline | In-House | Contracted |
|---|---|---|
| Architecture | ✓ | |
| Interior Design | ✓ | |
| Mechanical | ✓ | |
| Electrical | ✓ | |
| Structural | | ✓ |
| Civil Engineering | | ✓ |
| Technology | ✓ | |
| Landscape | | ✓ |
| Food Service | | ✓ |
| Acoustical | | ✓ |
| Furniture Design/Specifications | ✓ | |

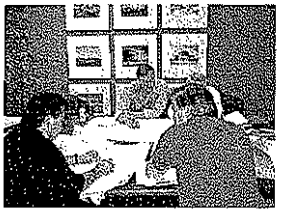
# Firm Overview

## Design Disciplines

The integration of our design disciplines allows us to consider the total environment and respond quickly and thoroughly to our clients' needs.







**Project Management.** The most important aspect of project management is the communication process. Our project administrators are involved in every phase of the project, making sure everyone on the team has the information necessary to do the job. They are in the front guard, meeting with the client and establishing a budget. They are responsible for all paperwork and financial monitoring, from preparing cost projections and keeping the project on track to flagging items before they become concerns. The Project Administrator is the client's liaison, in constant contact from the initial kick-off meeting through project close-out.

**Architectural Design.** A multi-disciplinary group consisting of programmers/planners, architectural designers, and interior and graphic designers works closely with you to properly interpret the project requirements, conceive schematic or preliminary design concepts, further develop design options, and analyze the layouts for maximum space utilization. Cost models are continuously reviewed to assure adherence to the project's budget.

**Architectural Development.** This group prepares the architectural contract document drawings from which the contractor builds the facility. Planning layouts, code compliance, material selection, construction systems, and construction phasing are all analyzed and drawings are developed to provide a facility to satisfy your project requirements and budget limitations. A thorough review of submittals for products, details, and the interface of materials is made to assure compliance of contract document drawings and specifications. The approved cost model is reviewed again to assure compliance with your project budget.

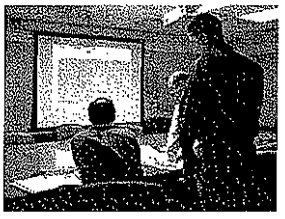
**Interior Design.** Our interior design staff provides the planning, specifications and bidding of furniture and equipment to ensure a complete and integrated solution appropriate for you.

**Mechanical Engineering.** This group involves the design and development of mechanical systems: heating, ventilating, air conditioning, refrigeration, fire protection, and piping systems for an unlimited variety of fluids and gases. Cost models are given the same scrutiny as in previous design phases to assure adherence to the project budget.

**Energy Management.** This group is part of mechanical engineering and conducts energy and technical assistance audits for many building types. On full-service projects, the energy department prepares documents for the energy management of a facility by the design of central automated control systems.

**Electrical Engineering.** This group involves the design and development of electrical systems: primary power, power distribution, lighting, security, communications, technology and special systems for equipment. Cost models are developed and reviewed to assure adherence to your project budget.

# Firm Overview



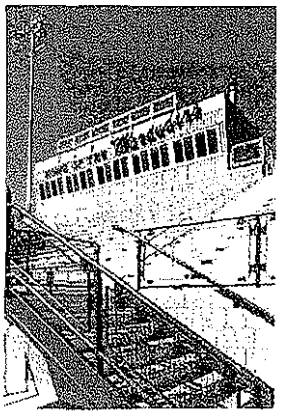
**Technology Design Services.** Technology in today's facilities is an integral part of the total design solution. This group is part of the electrical engineering department and was formed to provide master planning, design, engineering and implementation services for multimedia systems in new and renovated facilities. Our engineers and communications specialists develop accurate and total cost budgets as well as detailed drawings and documentation for voice, video and data systems.

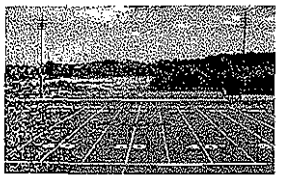
**Computer Services.** A broad spectrum of computerized technology is utilized including office automation, groupware, engineering programs and computer-aided drafting and design. Our computer specialists are dedicated to the continuing development and support of the computer applications utilized by our design departments in meeting our clients' unique and specific requirements. Extensive use is also made of proprietary software available from outside sources to enable our designs to be the most cost effective for our clients.

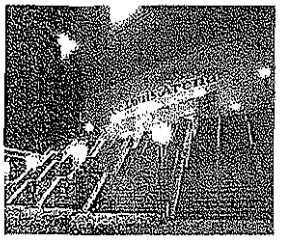
**Construction Services.** Construction Services include observing work for contract compliance, coordinating and interpreting contract documents, field orders, progress reports and contract payment requests. We believe field representation is one of the most important services our clients can expect to receive, and we assign experienced, senior level staff to our projects.

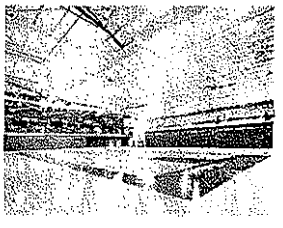
**Sustainable Design.** Our approach to this issue began to evolve in the early 1970s during the energy crisis. From our early roots, we felt that it was prudent to develop practical, well-engineered structures that were energy efficient and easy to maintain. Our engineers pioneered building performance evaluations, and our approach continues to evolve. We feel that it is imperative to be good stewards of the environment, and we've been practicing responsible, "green" design for over 30 years.

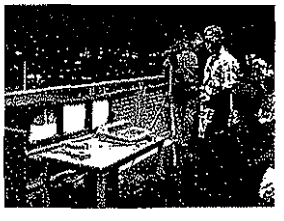
# Related Experience











- Sports Field Lighting
  - Birmingham Public Schools
    Groves High School Football Field
  - Bloomfield Hills Schools Tennis Courts
  - South Lyon Community Schools
    High School Athletic Complex
  - Southfield Public Schools
    High School Athletic Complex
  - Southfield Public Schools
    Southfield-Lathrup High School Football Field
  - Grosse Ile Township Schools
    Sports Complex
  - Warren Consolidated Schools
    Marauders Stadium
  - Warren Consolidated Schools
    Patriots Stadium
  - Warren Consolidated Schools
    Sterling Heights High School Tennis Courts
  - Oakland University
    Soccer Field Lighting
  - Macomb Community College
    Building SC Soccer Field and Running Track
  - Troy School District
    Athens High School Soccer Field

- Arena Lighting
  Jack Breslin Student Events Center
  Michigan State University

- Arena Lighting
  Silverdome Stadium
  Pontiac, Michigan

- Lighting Upgrades
  American Airlines
  Tulsa, Oklahoma

- Lighting Upgrades
  Northern Michigan University

- Lighting Upgrades and Interior Renovation
  Penobscot Building
  Fort & Griswold Partners
  Detroit, Michigan

- Downtown Detroit Master Lighting Program
  Detroit Downtown, Inc.
  - Central Methodist Church
  - Christopher Columbus Statue
  - City-County Building
  - Cobo Arena
  - Jefferson Avenue Re-lighting
  - Russel A. Alger Memorial Fountain
  - Joe Louis Arena
  - Hart Plaza
  - Bagley Fountain
  - General Pulaski Statue
  - General Macomb Statue
  - Steven Mason Statue
  - Abraham Lincoln Statue at Hart Plaza
  - William C. Maybury Statue
  - General Thaddeus Kosciuszkos Statue
  - Abraham Lincoln Statue at Library Park
  - St. Joseph Roman Catholic Church
  - Sts. Peter & Paul Roman Catholic Church
  - Soldiers and Sailors Monument
  - St. Aloysius Church
  - St. John's Episcopal Church
  - Veterans Memorial Building
  - Second Baptist Church
  - Fort Street Presbyterian Church
  - Church of St. John - St. Luke
  - Trinity Lutheran Church
  - Most Holy Trinity Church
  - Mariner's Church
  - First Presbyterian Church
  - St. Ann Catholic Church
  - Annunciation Greek Orthodox Cathedral
  - Hart Plaza Promenade
  - Wayne County Community Church
  - Windsor Tunnel
  - Downtown Synagogue

- Natatorium and Arena Lighting
  Ryder Center for Health and Physical Education
  Saginaw Valley State University
  **Illuminating Engineering Society (IES) Award Winner**

- Oakland University
  - Gymnasium Lighting Upgrade

- Parking Lot Lighting
  North Oakland Medical Center
  Pontiac, Michigan

- Wave Pool Lighting
  - Red Oaks Wave Pool
  - Waterford Oaks Wave Pool
  - Andersen Wave Pool
  - Allegheny County Wave Pools (3)

- Parking Lot Lighting
  Northland Shopping Center
  The Alliance, Inc.
  Southfield, Michigan

- Runway Lighting/NAVAIDS
  System Improvements
  Wayne County Detroit Metropolitan Airport

## Richard L. Bracci, PE

Senior Vice President
Director of Electrical Engineering and Technology Services

**Education**

Bachelor of Science in Electrical Engineering, 1972
Michigan State University

**Professional Registration**

Professional Engineer
State of Michigan, 1988

**Professional Memberships**

Illuminating Engineering Society

Institute of Electrical and Electronics Engineers

As Principal-In-Charge, Rich Bracci is your primary contact who maintains day-to-day interface. He oversees the project and provides direction and guidance to the project team to ensure program, schedule and budgets are met and that quality of the project is maintained. In achieving these objectives, your overall satisfaction is secured, which is Rich's "number one" concern.

### RELEVANT EXPERIENCE

- Birmingham Public Schools
  - 1997 Bond Program
  - Seaholm Press Box
  - Groves Football Field Lighting
  - 1995 Consolidation Program:
    - > Addition/Renovation/Technology (3 Schools)
    - > West Maple Renovation
    - > Covington District-Wide 3-8 Renovations
- Bloomfield Hills Schools
  - Fire Alarm Engineering Fox Hills Center and West Hills Middle School
  - 2006 Sinking Fund Projects
- Everest Academy
  - Campus Master Plan
- Pinckney Community Schools
  - Prebond Services, School Renovations, Additions and Technology (1 High School, 1 Middle School, 3 Elementary Schools, 1 Village Education Center)
- Troy School District
  - 1997 Bond Program
  - Technology Services Building
  - Elementary School Renovations and Additions (2 Schools)
  - Troy Athens High School Integrated Technology System
  - District-Wide Technology Program
- Warren Consolidated Schools
  - Integrated Technology Systems
  - Bond Program (34 Buildings)
- Michigan State University
  - Duffy Daugherty Football Building Renovation
  - Alfred Berkowitz Basketball Complex
  - Jack Breslin Student Events Center
- Saginaw Valley State University
  - Ryder Center for Health and Physical Education

## Michael D. Barden, LC

Associate
Senior Project Designer
Electrical Engineering

**Education**

Associate Degree in Electrical Engineering Technology
Macomb community College

Certificate in Electrical Construction and Maintenance

Certificate of General Studies of Architecture

**Professional Registration**

Lighting Certification, 2002
National Council on Qualifications for the Lighting Professions

**Professional Memberships**

Illuminating Engineering Society

*As Senior Project Designer in the electrical department, Mike Barden manages the design and installation of efficient and economical electrical power, lighting and control systems. Throughout the project, Mike addresses the electrical engineering needs of the client, coordinating with other departments to ensure quality and the successful integration into the project. Mike's passion is lighting design and interior uses. He has achieved the distinct qualification of Lighting Certification, which displays his capabilities.*

### RELEVANT EXPERIENCE

- City of Detroit
  - Lighting
- Birmingham Public Schools
  - 1997 Bond Program
  - Groves High School Training Center & Staff Planning
  - Groves Football Field Lighting
- Holy Family Regional School
  Rochester, Michigan
  - Electrical Power Distribution System Condition Analysis
  - Vision 2000: Expansion and Renovation
- Michigan State University
  - Duffy Daugherty Football Building Renovation
  - Breslin Student Events Center Alfred Berkowitz Basketball Complex
- Midland Public Schools
  - Additions and Renovations (5 Schools)
- Oakland Schools
  Waterford, Michigan
  - Major Campus Renovation Projects
  - Vehicle Design Academy, NE and SW Campus
  - Cluster Relocation Fit-ups
  - Integrated Technology Plan
  - Telecommunications System Upgrade
- Pinckney Community Schools
  - Prebond Services, School Renovations, Additions and Technology (1 High School, 1 Middle School, 3 Elementary Schools, 1 Village Education Center)
- Port Huron Area Schools
  - Integrated Technology System and South Alternative Learning Center
  - Elementary Schools Technology
- Troy School District
  - District-Wide Technology Program
- Warren Consolidated Schools
  - Integrated Technology Systems
  - Bond Program (34 Buildings)
  - WAN Administration Building Modifications
- Wyandotte Public Schools
  - 2002 Bond Improvements

## Dennis C. Schlitt

Senior Project Engineer
Electrical Engineering

**Education**

B.S. in Electrical Engineering 1978
Lawrence Technological University

**Professional Memberships**

Illuminating Engineering Society (IES)

Engineering Society of Detroit (ESD)

Lawrence Technological University Alumni Association

*As Senior Project Engineer in the electrical department, Denny Schlitt brings technical direction to the team and to the production group. He addresses the numerous and often competing directives for a project and makes them all come together in the best solution for the client. Denny enjoys the technical aspects and design work of electrical engineering, from working out the design solutions and doing the drawings, to writing the specifications and coordinating a myriad of details with the architect and contractor.*

### RELEVANT EXPERIENCE

- Bates Elementary School
  Woodhaven, Michigan
  - Facility Upgrades: Addition of Air Conditioning, New Classrooms and Gymnasiums
- Clinton Valley School District
  Clinton Township, Michigan
  - Renovation of Six District Schools
- Detroit Board of Education
  - Energy Audits (3 Schools)
- Detroit Country Day School
  - Renovation and Addition to Gymnasium, Swimming Pool, Offices and Classrooms
- Everest Academy
  - Campus Master Plan
- Macomb Intermediate School District
  - Educational Service Center Third Floor Renovation
- Mt. Clemens Community Schools
  Mt. Clemens, Michigan
  - Facility Upgrades (11 District Schools, Library and Administrative Offices)
- South Lyon Community Schools
  - New South Lyon East High School
  - High School Renovations and Additions
  - Sharon J. Hardy Elementary School
  - Brummer Elementary School
  - Renovations and Additions (2 Elementary Schools)
- Troy School District
  - Troy Athens High School Integrated Technology System
- Warren Consolidated Schools
  - Bond Program (34 Buildings)
  - Integrated Technology Systems
- Wyandotte Public Schools
  - Educational Technology Systems Electrical Design and Engineering

**Shawn Schiappacasse**
Project Designer
Electrical Engineering

*As Project Designer in the Electrical Department, Shawn Schiappacasse assists with establishing CADD standards, policies and guidelines within the Electrical Department, as well as CADD coordination between disciplines. Her primary duties include design and CADD drafting of lighting systems. She also assists in CADD for power plans, one-line diagrams, auxiliary systems, details, and layout of various types of electrical systems.*

## RELEVANT EXPERIENCE

- South Lyon Community Schools
  - Brummer Elementary School
  - Renovations and Additions (2 Elementary Schools)
- Troy School District
  - 1997 Bond Program
- Birmingham Public Schools
  - bps Corporate Training Center
- Holly Area School District
  - 2006 Bond Program
- University of Michigan
  - Towsley Center for Children
  - Museum of Art
- Macomb Community College
  - Health, Science & Technology Building
  - Macomb Technical Training Center (M-TEC)
- Grand Rapids Community College
  - Calkins Science Center