

**PSPE PHILADELPHIA CHAPTER  
OUTSTANDING ENGINEERING ACHIEVEMENT AWARD NOMINATION FORM – 2022/2023**

**Project Information:**

Name of Project:  
Laborers' District Council Education & Training Center

Location of Project:  
Philadelphia, PA

Description of Project, Include specific details (use two additional pages if necessary):  
See following page

Construction Cost: \$30,000,000 Completion Date: 7 / 1 / 21 Project or component must be complete in 2022

Primary Engineering Disciplines Represented by the Project (check those that apply):

Mechanical ; Electrical ; Civil ; Structural ; Chemical

Organizations/Firms That Contributed to the Project and are Responsible for the Achievement (provide additional sheets as required):

Names: Langan Engineering and Environmental Services, Inc. Phone: 215-845-8900

Address: 1818 Market Street, Suite 3300, Philadelphia, PA 19103 Email: kmacgeorge@langan.com

Contact Person: Kyle MacGeorge Title: Senior Project Manager

Client/Owner:

Names: Laborers' District Council of Philadelphia & Vicinity Education & Training/Apprenticeship Fund Phone: 215-684-2090

Address: 665 N Broad St #2, Philadelphia, PA 19123 Email: aparham@myldcbenefits.com

Contact Person: Alan Parham Title: Administrator

Submitted by:

Firm/Organization: Langan Engineering and Environmental Services, Inc. Phone: 610-256-4559

Signature: *Katherine Kubiak* Email: kkubiak@langan.com

To be Presented on December 5th by: Kyle MacGeorge

Email kmacgeorge@langan.com Cell Phone: 302-465-5705

**Addition Firms that contributed:**

Names: Camille Peluso Architects, LLC Phone: 215-845-5102

Address: 215 S 16th St, Philadelphia, PA 1910 Email: cp@cparchitx.com

Contact Person: Camille Peluso Title: Principal

Names: Bruce E. Brooks & Associates Phone: 215-569-0400

Address: 2209 Chestnut St, Philadelphia, PA 19103 Email: Tami.Knopp@brucebrooks.com

Contact Person: Tami Knopp Title: Senior Electrical Engineer

Names: O'Donnell & Naccarato Phone: 800-607-7284

Address: 701 Market St #6000, Philadelphia, PA 19106 Email: brawlings@o-n.com

Contact Person: Brian Rawlings Title: Principal

A \$50 Entry Fee is required and is to be submitted with the Nomination Form.

The entry fee is to be made payable to PSPE, Philadelphia Chapter.

Nomination is due: November 17, 2022 Presentations: Thursday, December 1, 2022

Send by Email or Fax Nomination to: [oea@pspe-philly.org](mailto:oea@pspe-philly.org) or 215-885-3732

Payment of the Application Fee may be check or by credit card.

To pay by credit card, click to [PAYPAL BUYNOW](http://www.pspe-philly.org/oea/entryfee.htm) button on our website <http://www.pspe-philly.org/oea/entryfee.htm>

To pay by check please mail to:

Fredric L. Plotnick, Ph.D., Esq., P.E. Chairman, Outstanding Engineering Achievement Awards

261 Old York Road #732, Jenkintown, PA 19046 Phone: 215-885-3733, Fax: 215-885-3732,

email: [oea@pspe-philly.org](mailto:oea@pspe-philly.org) or [oea@fplotnick.com](mailto:oea@fplotnick.com) or [fplotnick@fplotnick.com](mailto:fplotnick@fplotnick.com)

**Langan paid \$50 by credit card on PAYPAL BUYNOW.**

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This 60,000 SF state-of-the-art facility on North Broad Street is the new home of the Laborers' District Council's Education and Training Center. The new facility functions as a center for training to professional construction laborers. The facility also includes a Community Learning Center operated in collaboration with Temple University to provide the local community with job, education, and basic life skills training. The three-story building features spaces named after construction and union leaders.

Langan provided numerous professional services including site/civil and site structural, traffic and geotechnical engineering, environmental consulting, landscape architecture, and stormwater management and permitting. We completed environmental due diligence, collected and analyzed samples of soil/fill material, and prepared a Material Management Plan to govern soil/fill handling during earthwork. We coordinated with the architect to develop site architectural designs for stairs, ramps, walls, furnishing and paving that complemented the building and created a seamless transition from the exterior entrances to the interior lobby.

Langan developed a robust site-wide stormwater management program to meet the city's stringent health and safety stormwater management release rates. The program included a combination of porous pavement, roof top planters, underground water quality filters, and underground stormwater management vault to capture and slowly release stormwater runoff from the site. The stormwater management system was constrained by a limited site area to city water main infrastructure easements that traverses the site of the parking lot.

Several feet of grade change across the very limited site, required Langan's landscape architecture, site/civil and site structural engineers to collaborate closely with the architectural team to design integrated site walls, ramps, and stairs to connect the parking lot on the lower elevations of the site to the main entry to the building.

Langan worked closely with the Laborers Union District Council, Temple, Camille Peluso Architects, and the rest of the design and construction team to review previous site demolition records while completing the geotechnical exploration. We implemented a ground-improvement program, so that the structure could be built on shallow foundations and to enclose contaminated materials from prior site demolition below the building and pavement areas.

Soils with environmental impacts were delineated prior to breaking ground, and Langan's environmental and site/civil engineers worked together and with the general contractor to develop a plan to manage soils on-site, thereby minimizing cost and downtime during construction.

Langan's multidisciplinary approach of soil management, stormwater management design, and material selection contributed to the project achieving enough credits for LEED Gold certification.