## 2023 ASHE National Project of the Year over \$20M

# HUNTS POINT Interstate Access Improvements Contract 2

Submitted to:



Submitted by:



### AMERICAN SOCIETY OF HIGHWAY ENGINEERS

## National Project of the Year Award

#### **OFFICIAL ENTRY FORM**

□ Under \$20 Million

☑ Over \$20 Million

#### SPONSORING REGION (Check One):

- ☑ Northeast
- $\Box$  Mid-Atlantic
- □ Southeast

Great LakesNorth CentralSouth Central

- $\Box$  Northwest
- □ Rocky Mountain

 $\Box$  Southwest

#### **CONTACT INFORMATION FOR SUBMITTING REGION:**

| Contact Name:   | Scott Eshenaur |                 | ASHE Region Po | osition: | NE Regio | on NPAC Chairperson   |     |
|-----------------|----------------|-----------------|----------------|----------|----------|-----------------------|-----|
| Phone (Office): | 717-790-9565   | Phone (Mobile): | 717-580-8426   | E-Mail   | Address: | sreshenaur@modjeski.c | com |

#### **PROJECT INFORMATION:**

| ENTERING AGENCY/COMPANY'S NAME: Green                | nman-Pedersen, Inc.                               |                     |
|--|---|---------------------|
| PROJECT NAME: Hunts Point Interstate Access Improver | ment Design-Build Project - Contract 2 _TYPE: D   | Design-Build        |
| PROJECT LOCATION: Bruckner Expressway and Bruckner   | ner Boulevard from the RFK Bridge to Barretto Str | eet                 |
| CITY: Bronx  | COUNTY: Bronx STATE:                              | New York            |
| FINAL CONSTRUCTION COST: \$479 Million               | BUDGETED CONSTRUCTION (                           | COST: \$518 Million |
| PROJECT COMPLETION DATE: 11/28/2023                  |   |                     |
| PROJECT ASHE SECTION: NY Metro                       | ASHE SECTION CONTACT NAME: Jeff                   | rey Brugge          |
| PHONE (OFFICE): 212-993-5774 PHONE                   | (MOBILE): 516-445-3495 E-MAIL: jbrugge            | e@gpinet.com        |
| · · · · · · · · · · · · · · · · · · ·                | · · · · · · · · · · · · · · · · · · ·             |                     |
| PROJECT TEAM:  |   |                     |
| PROJECT OWNER: New York State Departmen              | t of Transportation                               |                     |
| STREET ADDRESS: 47-40 21st Street                    |   |                     |
| CITY: Long Island City                               | STATE: New York                                   | ZIP: 11101          |
| CONTACT PERSON: Daileyne Abraham, P.E.               | PHONE: 631-761-7236                               |                     |
|  | E-MAIL ADDRESS: Daileyne.Abraham@do               | ot.ny.gov           |
|  |   |                     |
| PROJECT DESIGN FIRM: Greenman-Pedersen, Inc.         |   |                     |
| STREET ADDRESS: 325 West Main Street                 |   |                     |
| CITY: Babylon  | STATE: New York                                   | _ZIP: 11702         |
| CONTACT PERSON: Jason Stern, P.E., DBIA              | PHONE: 631-761-7236                               |                     |
|  | E-MAIL ADDRESS: jstern@gpinet.com                 |                     |
|  |   |                     |
| PRIME CONTRACTOR: El Sol Deroe JV                    |   |                     |
| STREET ADDRESS: 43-06 54th Road                      |   |                     |
|  | STATE: New York                                   | _ZIP: 11378         |
| CONTACT PERSON: Patrick Prancl, P.E.                 | PHONE: 718-392-8800                               |                     |
|  | E-MAIL ADDRESS: patp@eisolcontracting             | .com                |
| Entury Form Completed Dyn loson Stern P              |   | Data, 01/31/2024    |
| Entry Form Completed by: Jason Stem, 1.              |   | Date: onon2021      |





#### WHY SHOULD THIS BE THE "2023 ASHE National Project of the Year":

At the time of its award in March 2021, the Hunts Point 2 Project was the largest project ever let by the NYSDOT at \$518 million. This was a large, urban project which required expeditious design and construction with minimal disturbance to the active communities during an unprecedented pandemic and economic shortfalls. The project was completed ahead of time, meeting all 13 interim milestones, underbudget, safely, overcoming all risks, to the satisfaction of all parties. The project came in under budget by \$39 million.

The relationship between NYSDOT and the Design-Build (DB) Team definitely contributed to the success of the project. The degree of cooperation, communication, and trust developed on this project was second to none.

#### **Complexity**

This area of the Bronx is one of the most congested traffic areas in New York City and leads directly to the Hunts Point Market, one of the largest wholesale food distribution centers in the world. Hunts Point Market draws over 78,000 vehicles per day, including 13,000 commercial trucks, which contributes to the extreme congestion on the local streets in the area. The project was designed to relieve congestion and provide safer, more direct truck access to the market, thereby increasing safety on the local roadways as well. In addition, this project will improve the quality of life for the surrounding neighborhood by reducing pollution and taking commercial trucks off the local streets to create more recreational opportunities.

Challenges on this project included performing staged construction activities under extremely heavy traffic conditions at all times, not only on the Bruckner Expressway but also on the Bruckner Boulevard and the local street intersections. Use of fast-track design was necessary to advance the elements with the longest lead times in the order required by the CPM schedule to ensure timely approvals and meet fabrication schedules. This project was a continuation of the corridor widening and improvements and will tie the elements replaced in the Hunts Point Contract 3 (to the east) and Bruckner Viaduct Deck Replacement (to the west) Design-Build projects together.

In addition to the design of the elevated structure rehabilitation, the design included the roadway reconstruction and the addition of a shared-use path for pedestrians and bicycles along the entire corridor. Renovation of Bruckner Boulevard below the viaduct included 15 local street intersection reconstructions with full depth pavement replacement, traffic signal replacements, drainage improvements and utility coordination including relocation of water and gas mains, and communications and electrical services as well as ITS system upgrades.



#### **Innovation**

The design included the replacement of the Bruckner Expressway deck, construction of new on and off ramps to the expressway, the widening of the expressway viaduct and the demolition of the existing off ramp. The 1.4-mile expressway structure was further modified by providing UHPC link slabs and modular joints, which eliminated over 30 joints in the structure. Structural rehabilitation of the entire viaduct included steel pier repairs, concrete repairs, replacement of overhead sign structures, retaining wall repairs and replacement of over 1900 elastomeric bearings. LRFR and LFD load ratings of the entire structure were included in the design as well as foundation design of the piers and fixed frame abutments for the new ramps and widening supported on piles.



As part of the project, we were responsible for creating and maintaining 3D, 4D and 5D models of all the existing and proposed elements of the project. Three-dimensional models of structural components, including the viaduct, ramps, retaining walls, and barriers, were developed and combined with accurate depictions of civil works, such as drainage, ITS, lighting, and traffic signals to create a comprehensive model of the site. This 3D model was the basis for the four- and five-dimensional models that were utilized to track construction progress throughout the life of the project. In linking the 3D models with their respective activities in the resource-loaded baseline CPM schedule, we were able to create a 4D/5D animation to show the progress of construction and the cumulative earned value for the project. We also created visuals of the traffic closures and phased construction stages to assist with construction operations and strategic planning efforts. With the release of the monthly updated construction schedule, the animation was updated to depict the actual progress made each month. These 4D/5D model video files were used during construction progress meetings and for community outreach.



#### **Social/Economic Conditions**

A significant portion of the residents and those who are employed within the project limits are transitdependent for their traveling needs. Some of the goals of this project were to provide better neighborhood connectivity, improve and augment the existing facilities for non-motorized transportation modes, and

enhance pedestrian and bicycle safety along Bruckner Boulevard. These goals were achieved by the construction of a new bicycle path/shared-use path and ADA compliant sidewalk in the median area along Bruckner Boulevard between East 138th Street and Baretto Street. In addition, 15 local street intersections were redesigned which included curb extensions, widened medians, ADA curb ramps, shorter crosswalks and new traffic signals which are compliant with the latest requirements of ADA for physically, visually, and hearing impaired.



Additional signage was also installed guide pedestrians and bicyclists along Bruckner Boulevard in a safe manor.

#### **Safety**

The Design-Build Team used the following methods to attain high levels of safety on the project:

- Training: The DB committed to a rigorous system of training in order to make sure work operations were carried out in the safest manner. All employees were required to take OSHA 10- Hour and AMTRAK training prior to being allowed to work on the project. All foremen, stewards, and project engineers were required to take additional training such as OSHA 30-Hour Training and specialty training, which was above and beyond the specifications.
- Multi-Tiered Inspection: The DB Team included quality and safety inspectors working for both the DB and NYSDOT who oversaw all daily work operations. In addition, the DB employed an outside safety consultant, which monitored the project on a full-time basis. There were also independent, unannounced safety inspections by El Sol's Corporate Safety Officer and the insurance carrier's safety teams to ensure all personnel were following the procedures outlined in the HASP.
- Tool-Box Meetings: Weekly tool-box safety meetings were held each week and any time a new construction operation was starting to pro-actively address corresponding hazards which accompany the new operations.

#### **Aesthetics**

Aesthetic treatments for the bridge and all retaining walls were designed to complement each other and the surrounding context of the highway corridor. This included the use of textures, patterns, and concrete colors.

The faces of all new abutments, piers, retaining walls and abutment wingwalls used an architectural formliner with an anti-graffiti protective coating applied to the surface. All the structural steel on the viaduct and ramps (existing and proposed) was painted within the project limits, as were the existing substructure elements, to provide a uniform appearance throughout the area.

New trees and shrubbery were planted and textured pavement treatments were installed to soften the appearance of the paved surfaces, reduce the heat island effects, and provide nature elements within the built environment.



An 8' high decorative fence was installed on Bruckner Boulevard along the Amtrak right-of-way.

#### Meeting and Exceeding Owner's Needs

Due to the timing of this project, NYSDOT and DB team had to adjust and improve its methods of communications as the commencement of this complex project coincided with the peak of the COVID-19 pandemic.

The project goals were all achieved using open communication, transparency, and commitment by the entire NYSDOT/DB Team towards achieving the established project goals. Early project meetings occurred where NYSDOT's goals and expectations for the project were clearly identified. At these meetings, clear protocols were outlined, stakeholders identified and difficult project issues such as permitting, and community outreach were discussed.

The DB Team used its past design-build experience to expedite the work while maintaining quality workmanship. When issues were encountered which affected the progression of the project; the DB Team expeditiously developed resolutions which NYSDOT reviewed and supported. NYSDOT partnered in the resolution of issues with third party agencies, utilities, and railroads when necessary. Using this collaboration, the DB Team was able to meet all thirteen (13) interim milestones on time and under budget.

NYSDOT and DB Team held weekly progress meetings which covered topics such as scheduled work, safety, design status, submissions, procurements, permitting, quality, and specific project matters as well as the steps taken to mitigate risks.

Any issues which had the potential to affect the schedule were quickly and efficiently escalated to higher levels so that timely decision and mitigation could be made. Monthly CPM schedule updates were maintained by the DB Team and distributed to the NYSDOT and key stakeholders for monitoring of progress towards the established milestones. All of the project stakeholders communicated openly with each other ensuring that all members of the team were well informed of issues and decisions affecting the project progression.

# CONSTRUCTION DRAMADON







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FILE NAME DATE/TIME USER

| DESCRIPTION   | UNIT |
|---|------|
| RUBBING   | LS   |
| EXCAVATION AND DISPOSAL   | CY   |
| E, TYPE 1   | CY   |
| /ELING F9, HMA, 80 SERIES COMPACTION  | TON  |
| RSE HMA, 50 SERIES COMPACTION   | TON  |
| OURSE HMA, 50 SERIES COMPACTION   | TON  |
| COAT  | GAL  |
| IENT JOINT ADHESIVE   | LF   |
| LD MILLING OF BITUMINOUS CONCRETE, QUANTITYRANGE 2 (>2 TO 4 INCH DEEP)        | SY   |
| CC AND COMPOSITE PAVEMENT   | LF   |
| CONCRETE MEDIAN BARRIER   | LF   |
| DTECTIVE FENCE  | LF   |
| WALK WITH FOUNDATION (NEW YORK CITY)  | SY   |
| WALK WITH FOUNDATION, DRIVEWAYS (NEW YORK CITY)                               | SY   |
| T (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS, AND VEGETATION CONTROL STRIPS | TON  |
| , STEEL FACED (NYC) TYPE D  | LF   |
| EL (IN-PLACE MEASURE)   | CY   |

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FILE NAME = DATE/TIME = 25-MAY-2022 13:47 USER = Lee.Gill

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![](_page_14_Picture_0.jpeg)

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![](_page_16_Picture_0.jpeg)

CONTRACTOR: EL SOL DEFOE JV HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT - CONTRACT 2 NYSDOT CONTRACT NO. D900051-DB PROGRESS AERIAL PHOTOGRAPH PHOTO NO: 13482.022.027 6/23/2023 Photographs: Bernstein Associates / Irvington, NY

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![](_page_18_Picture_0.jpeg)

![](_page_19_Picture_0.jpeg)

#### **Jason Stern**

| From:    | Shah, Snehal D (DOT) <snehal.shah@dot.ny.gov></snehal.shah@dot.ny.gov>            |
|----------|---|
| Sent:    | Friday, October 20, 2023 3:26 PM  |
| То:      | Jason Stern   |
| Subject: | RE: ASHE NY Metro 2023-2024 Project of the Year (POY) Nominations and Application |
|          |   |

Ok to submit.

Please proceed.

Wishing you all the best!

Thanks,

**Snehal Shah, P.E.** Deputy Chief Engineer

New York State Department of Transportation 1209 Colgate Avenue, Bronx, NY 10472 347-591-3874(O) | 917-648-2915 (C) snehal.shah@dot.ny.gov www.dot.ny.gov

STATE OF OPPORTUNITY. Department of Transportation

From: Jason Stern <jstern@gpinet.com>
Sent: Friday, October 20, 2023 2:10 PM
To: Shah, Snehal D (DOT) <Snehal.Shah@dot.ny.gov>
Subject: FW: ASHE NY Metro 2023-2024 Project of the Year (POY) Nominations and Application

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Snehal,

Just wanted to follow up with you on this to see if you are ok with GPI submitting HP2 for the ASHE Project of the Year.

Thanks.

![](_page_20_Picture_14.jpeg)

Jason Stern, P.E., DBIA d 631.761.7236 | c 516.419.7874 Greenman-Pedersen, Inc., *An Equal Opportunity Employer* 

From: Jason Stern
Sent: Monday, October 16, 2023 10:46 AM
To: Shah, Snehal D (DOT) <<u>Snehal.Shah@dot.ny.gov</u>>
Subject: FW: ASHE NY Metro 2023-2024 Project of the Year (POY) Nominations and Application

Snehal,

It was good seeing you at Craig's retirement party last week.

GPI would like to submit Hunts Point 2 for the ASHE project of the year. Are you ok with us submitting it?

Thanks.

![](_page_21_Picture_4.jpeg)

Jason Stern, P.E., DBIA d 631.761.7236 | c 516.419.7874 Greenman-Pedersen, Inc., *An Equal Opportunity Employer* 

From: ASHE NY Metro <<u>ashemetro.2021@gmail.com</u>>
Sent: Thursday, October 12, 2023 1:06 PM
To: ASHE NY Metro <<u>ashemetro.2021@gmail.com</u>>
Subject: ASHE NY Metro 2023-2024 Project of the Year (POY) Nominations and Application

# ASHE New York Metro is now accepting nominations for the 2023-2024 Project of the Year (POY).

Nomination packages are due October 27, 2023 and available through the link below: <a href="https://lnkd.in/emb5qkKG">https://lnkd.in/emb5qkKG</a>

#### There are 2 categories:

Projects that are greater than \$20M in construction cost. Projects that are less than \$20M in construction cost.

Applications are available on ASHE's NY Metro website https://ashenymetro.org/images/downloads/Project\_of\_the\_Year/2023\_2024\_\_poy\_nomination\_form\_2.pdf

Please e-mail filled out application to jbrugge@gpinet.com

The application outlines the criteria for judging and the basis of selection. Winners will be announced and be followed by a Project Presentation at the January Meeting for the Projects over \$20M and at the February Meeting for Projects under \$20M.

Per Title VI of the Civil Rights Act of 1964 and other Nondiscrimination statutes, Greenman-Pedersen, Inc. and its related companies will not discriminate on the grounds of race, color or national origin in the selection and retention of subconsultants, including procurement of materials and leases of equipment. Greenman-Pedersen, Inc. and its related companies will ensure that minorities will be afforded full opportunity to submit proposals and will not be discriminated against in consideration for an award.

This communication and any attachments are intended only for the use of the individual or entity named as the addressee. It may contain information which is privileged and/or confidential under applicable law. If you are not the intended recipient or such recipient's employee or agent, you are hereby notified that any dissemination, copy or disclosure of this communication is strictly prohibited and to notify the sender immediately.

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January 31, 2024

ASHE National Committee

Attention: Scott Eshenaur

RE: 2023 ASHE National Project of the Year over \$20M Hunts Point Interstate Access Improvement Design-Build Project – Contract 2 Statement of Commitment

Dear Sir/Madam:

Greenman-Pedersen, Inc. (GPI) is pleased to submit our entry for the 2023 ASHE National Project of the Year award.

I am confirming that a representative from GPI will attend the awards luncheon should this project win.

Very truly yours,

P. E.

Executive Vice President/Branch Manager

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