



AECOM USA, INC.

Exit Bryant Park
42 Street &
6 Avenue

Downtown &
Brooklyn

B D
F M

FORM 2: REFERENCE PROJECT DESCRIPTION

Complete a copy of Form 2 for each Reference Project:

Respondent Name	C.A.C. Industries, Inc.			
Reference Project	Design-Build Services for Accessibility Upgrades at 42nd St-Bryant Park & Fifth Avenue Stations (A37149)			
Name of Company	AECOM USA, Inc.			
Role of Company	Construction Contractor:	<input type="checkbox"/>	Designer:	<input checked="" type="checkbox"/>
	Other (describe):	<input type="checkbox"/>		
Experience (years)	Vertical Transportation:	<input checked="" type="checkbox"/>	Other (describe):	<input checked="" type="checkbox"/>
	2.5			Infrastructure, Utilities, Urban MPT, Structural, Steel, Architecture, Micropiles, SOGR

DESCRIPTION OF PRIOR PROJECT

Name of project	MTA C&D ADA Upgrades at Eight Stations – Package 2		
Location	Various Locations, NY		
Brief description	This Design-Build project involves accessibility upgrades, installation of new elevators, replacement of existing elevators, and stage of good repair (SOGR) at eight NYCT stations in the boroughs of Brooklyn, the Bronx, Manhattan, and Queens to bring these stations to full ADA compliance.		
Nature of work for which company was responsible	AECOM is responsible for final design and construction support services for ADA upgrades at eight NYCT stations.		
Brief description of site conditions	The eight stations include Westchester Square–East Tremont Avenue (the Bronx), Eighth Avenue (Brooklyn), Marcy Avenue (Brooklyn), Flushing Avenue (Brooklyn), 181st Street (Manhattan), Woodhaven Boulevard (Queens), Court Square–23rd Street (Queens), and Queensboro Plaza (Queens).		
List any awards or citations received for the project	N/A		
Client details (owner / agency/ contractor etc.)	Client Name	MTA Construction & Development	
	Address	2 Broadway, New York, NY 10004	
	Contact name	Vikram Tadla	
	Telephone	(332) 999-0818	
	Contract Reference #	A37135	
Contract value at time of award (US\$)	\$242M	Final value (US\$):	Ongoing
% of total work done by Firm:	12%	Commencement date:	01/2022
Planned completion date:	03/2025	Actual completion date:	Ongoing
Amount of claims: (US\$)	\$0	Any litigation? (yes or no)	No



MTA C&D ADA Upgrades at Eight Stations – Package 2

SIMILARITIES TO ADA UPGRADES AT BRYANT PARK:

Design-Build for MTA
Vertical Transportation
Transportation Infrastructure
Major Metropolitan Area
ADA Compliance
Elevator Design
Railroad and Transit Infrastructure

- Provision of new elevators appropriate for use in a heavy-duty transportation environment and all associated equipment.
- Provision for new elevator machine rooms and other back-of-house spaces to support the new elevators.
- Replacement of, relocation of, or modification to existing staircases serving the stations.
- Upgrades to existing electrical systems, provision of new power, and other electrical work to support the new elevators.
- Reconstruction of platform edges and ADA-compliant boarding areas.
- Upgrades to existing communications systems and installation of new communications systems and equipment at the stations.
- Relocation of existing utilities.
- SOGR work to stairways, platforms, boarding areas, columns, beams, girders, concrete, canopies, windscreens, back-of-house facilities, ventilators, and other locations, systems, or equipment.

BRIEF DESCRIPTION CONTINUED

This Design-Build project involves accessibility upgrades, installation of new elevators, replacement of existing elevators, and SOGR at eight NYCT stations in the boroughs of Brooklyn, the Bronx, Manhattan, and Queens to bring these stations to full ADA compliance.

NATURE OF WORK CONTINUED

AECOM is responsible for final design and construction support services for ADA upgrades at these eight NYCT stations. The scope of work includes:

- Excavations at street level and modifications to existing stations to accommodate new elevators.
- Expansions or modifications of mezzanines and platforms at stations to accommodate new elevators.

To support the aggressive construction schedule, the design team developed early design work packages for elevator procurement, street utility work, SoGR repairs, and long-lead procurement items.

SITE CONDITIONS CONTINUED

The eight stations are as described below:

1. **Westchester Square–East Tremont Avenue** is an elevated station on the IRT Pelham Line located on Westchester Avenue between Commerce Avenue and Ferris Place in the Bronx, servicing the 6 Train.
2. **Eighth Avenue** is an open-cut station on the BMT Sea Beach Line located between 7th and 8th Avenues in Brooklyn, servicing the N Train.
3. **Marcy Avenue** is an elevated station on the BMT Jamaica Line located at the intersection of Marcy Avenue and Broadway in Brooklyn, servicing the J, M, and Z Trains.
4. **Flushing Avenue** is an elevated station on the BMT Jamaica Line at the intersection of Flushing Avenue and Broadway in Brooklyn, servicing the J, M, and Z Trains.
5. **181st Street** is a below-ground station on the IND Eighth Avenue Line located underneath Fort Washington Avenue in Manhattan, servicing the A Train.
6. **Woodhaven Boulevard** is an elevated station on the BMT Jamaica Line located at Woodhaven Boulevard and Jamaica Avenue in Queens, servicing the J and Z Trains.
7. **Court Square–23rd Street** is a below-ground station on the IND Crosstown Line located at 23rd Street in Queens, servicing the G Train. The station is part of a complex with free transfers between the underground Court Square–23rd Street station (E and M Trains) on the IND Queens Boulevard Line and the elevated Court Square station (7 Train) on the IRT Flushing Line.
8. **Queensboro Plaza** is an elevated station on the IND Queens Boulevard Line located east of the Queensboro Bridge in Queens, servicing the N, W, and 7 Trains.



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Reference Project	Design-Build Services for Accessibility Upgrades at 42nd St-Bryant Park & Fifth Avenue Stations (A37149)			
Name of Company	AECOM USA, Inc.			
Role of Company	Construction Contractor:	<input type="checkbox"/>	Designer:	<input checked="" type="checkbox"/>
	Other (describe):	<input type="checkbox"/>		
Experience (years)	Vertical Transportation:	<input checked="" type="checkbox"/>	Other (describe):	<input checked="" type="checkbox"/>
	1		Infrastructure, Utilities, SOGR	

DESCRIPTION OF PRIOR PROJECT

Name of project	MTA C&D ADA Upgrades at Four Stations – Package 4		
Location	Various Locations, NY		
Brief description	This Design-Build project includes ADA upgrades, installation of new elevators, replacement of an existing escalator, construction of new stairs and rehabilitation of existing stairs, and SOGR work at four NYCT subway stations.		
Nature of work for which company was responsible	AECOM is the lead design firm providing final design and construction support services to improve ADA accessibility at four NYCT stations in Manhattan, Brooklyn, Queens, and the Bronx.		
Brief description of site conditions	The four stations include Bay Ridge–95th Street (Brooklyn), Northern Boulevard (Queens), 137th Street–City College (Manhattan), and Parkchester (Bronx).		
List any awards or citations received for the project	N/A		
Client details (owner / agency/ contractor etc.)	Client Name	MTA Construction & Development	
	Address	2 Broadway, New York, NY 10004	
	Contact name	Bhargav Shah, PE	
	Telephone	(646) 252-3452	
	Contract Reference #	A37139	
Contract value at time of award (US\$)	\$145M	Final value (US\$):	Ongoing
% of total work done by Firm:	3%	Commencement date:	09/2022
Planned completion date:	10/2027	Actual completion date:	Ongoing
Amount of claims: (US\$)	\$0	Any litigation? (yes or no)	No



Parkchester Station Rendering

MTA C&D ADA Upgrades at Four Stations – Package 4

SIMILARITIES TO ADA UPGRADES AT BRYANT PARK:

Design-Build for MTA
Vertical Transportation
Transportation Infrastructure
Major Metropolitan Area
ADA Compliance
Elevator Design
Railroad and Transit Infrastructure

design for architecture, structural, mechanical, electrical, plumbing, fire protection, vertical transportation, civil, and utility and systems engineering, as well as oversight of subconsultants performing civil, MEP, and comms engineering at select stations.

The typical design scope of work at all stations includes the excavation and expansion of the stations to accommodate new accessibility features, new elevators, elevator machine rooms, refurbishment of existing stairs and construction of new stairs, modifications to existing fare control lines including new and relocated turnstiles, power-operated gates and fare vending equipment, upgrades to existing uninterruptible power supply (UPS) systems, new fire alarm systems, communication systems upgrades, platform edge replacement, new standpipe systems or modification of existing, SOGR work in the vicinity of the work, utility relocations, and street restoration.

BRIEF DESCRIPTION CONTINUED

This Design-Build project includes ADA upgrades, installation of new elevators, replacement of an existing escalator, construction of new stairs and rehabilitation of existing stairs, and SOGR work at four NYCT subway stations located in the boroughs of Brooklyn, the Bronx, Manhattan, and Queens. The project encompasses the installation of eight new elevators at three underground stations and one above-grade station, replacement and reconfiguration of existing stairs, and ADA platform modifications. The various improvements will make these stations compliant with ADA-accessibility requirements.

NATURE OF WORK CONTINUED

AECOM is the lead design firm providing final design and construction support services at these four stations. AECOM is responsible for managing the design team and coordinating with the contractor and is providing detailed

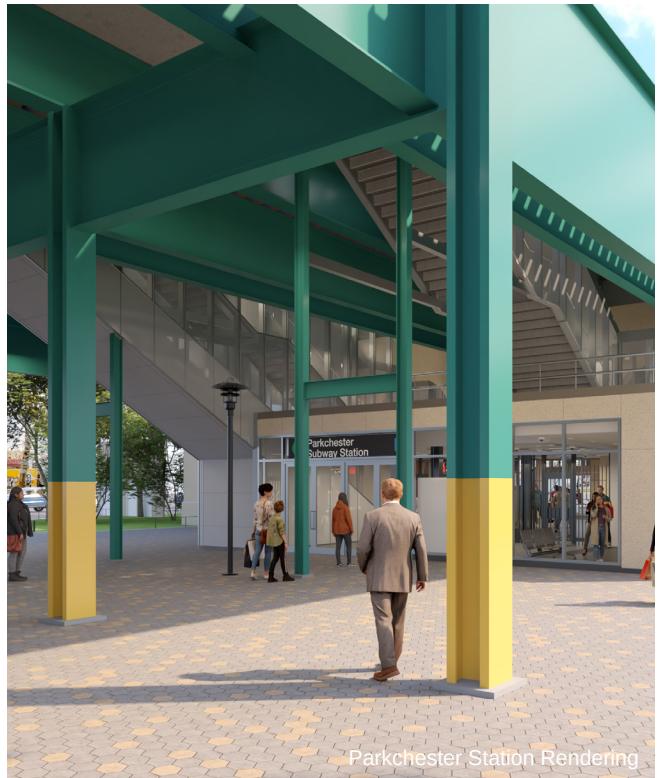
SITE CONDITIONS CONTINUED

The four stations are as described below:

1. **Bay Ridge–95th Street** is an underground station at the southern terminal of the R Train in Brooklyn at the intersection of 95th Street and Fourth Avenue. The station entrance and new street-level elevator that are part of the project are directly in front of the historic Fort Hamilton branch of the Brooklyn Public Library. The station features a mezzanine one level below-grade and an island platform two levels below-

grade. In addition to the typical station design scope, this station includes a new ADA-compliant public toilet and the relocation of existing traction power and signal duct bank and cables.

2. **Northern Boulevard** is an underground station servicing the M and R Trains at the intersection of Northern Boulevard and 54th Street in Queens. The station has two side platforms and sits partially above a tunnel with express tracks for the IND Queens Boulevard Line. In addition to the typical station design scope, this station includes the reopening of an existing out-of-service public stair and expansion of the station footprint to create a new control area.
3. **137th Street–City College** is an underground station servicing the 1 Train at the intersection of West 137th Street and Broadway in Manhattan. The station has two side platforms and a center express track to bypass the station. In addition to the typical station design scope, this station includes expanded state of good repair work for deteriorated finishes and structural elements throughout the station.
4. **Parkchester** is an elevated station within Hugh J. Grant Circle in the Bronx servicing the 6 Train. The station has two platforms and three tracks. The outside tracks provide local service while the center track between the two platforms is used for express service during peak periods. The eastern end of the station sits above the Cross Bronx Expressway. In addition to the typical station design scope, this station includes expanding the existing street-level headhouse to the west; adding a new control area, customer service center to replace the existing agent booth, and escalator; and modifications to the existing platform-level canopies and stair enclosures. Parkchester station is currently eligible to be listed on the National Register of Historic Places and all work must undergo review and approval by the New York State Historic Preservation Office.



Parkchester Station Rendering

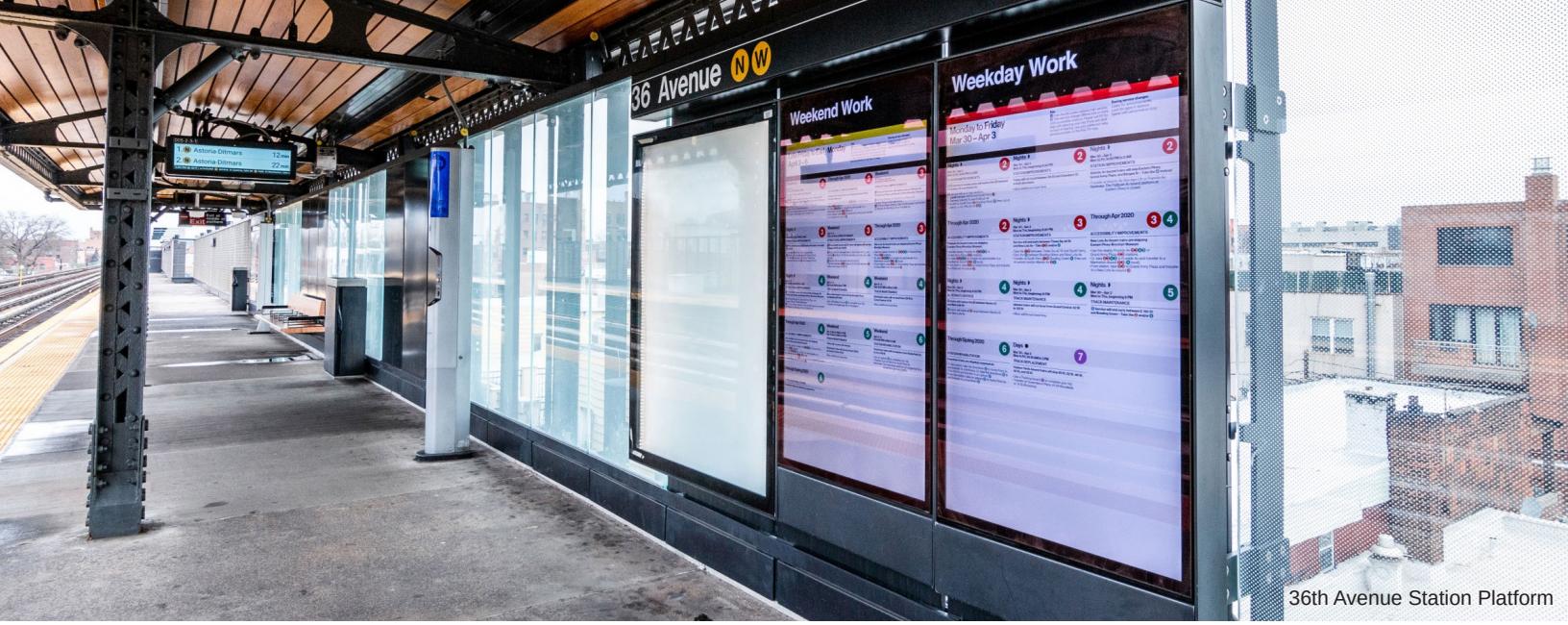


Parkchester Station Rendering

FORM 2: REFERENCE PROJECT DESCRIPTION

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Respondent Name	C.A.C. Industries, Inc.			
Reference Project	Design-Build Services for Accessibility Upgrades at 42nd St-Bryant Park & Fifth Avenue Stations (A37149)			
Name of Company	AECOM USA, Inc.			
Role of Company	Construction Contractor:	<input type="checkbox"/>	Designer:	<input checked="" type="checkbox"/>
	Other (describe):	<input type="checkbox"/>		
Experience (years)	Vertical Transportation:	<input checked="" type="checkbox"/>	Other (describe):	<input checked="" type="checkbox"/>
	2		Visual Quality & Enhancement, Infrastructure, Structural, Architectural, MEP	
DESCRIPTION OF PRIOR PROJECT				
Name of project	MTA NYCT Enhanced Station Initiative (ESI) – Package 2			
Location	Various Locations, NY			
Brief description	NYCT Station Enhancements – Package 2 was a part of NY Governor Cuomo's Enhanced Station Initiative. The project included four stations in Astoria, Queens – 30th Avenue Station, Broadway Station, 36th Avenue Station, and 39th Avenue Station on the Astoria Line.			
Nature of work for which company was responsible	AECOM was the lead design firm and developed construction documents for all four stations as well as construction support services.			
Brief description of site conditions	The four NYCT stations are located in Astoria, Queens. They are all elevated stations with side platforms and mezzanines hung below the main line structure.			
List any awards or citations received for the project	N/A			
Client details (owner / agency/ contractor etc.)	Client Name	MTA New York City Transit		
	Address	2 Broadway, New York, NY 10004		
	Contact name	Brian Liona		
	Telephone	(212) 987-1408		
	Contract Reference #	A36622B		
Contract value at time of award (US\$)	\$92M	Final value (US\$):	\$149M	
% of total work done by Firm:	70% (design)	Commencement date:	04/2017	
Planned completion date:	02/2019	Actual completion date:	02/2019	
Amount of claims: (US\$)	\$0	Any litigation? (yes or no)	No	



36th Avenue Station Platform

MTA NYCT Enhanced Station Initiative (ESI) – Package 2

SIMILARITIES TO ADA UPGRADES AT BRYANT PARK:

Design-Build for MTA Transportation Infrastructure Major Metropolitan Area ADA Compliance Railroad and Transit Infrastructure

The enhancement included the renovation of the mezzanine and platform level at all the stations. Mezzanine enhancements included bringing all existing slabs to a SOGR, replacing the timber flooring with black granite tile, relocating and refurbishing agent booths, providing new fare arrays and signage, and replacing all stairs from the mezzanine level to the platform. The platform was renovated with fritted glass and metal mesh windscreens with integrated led lighting and speakers and all canopy finishes were removed and replaced.

New benches, signage, trash receptacles were provided to match the overall intent of improved aesthetics.

The existing cast in place slabs were topped with new concrete, precast slabs were replaced as required based on inspection and the entire length of platform received safety yellow platform edge tactile floor tiles for the visually impaired.

Work also included replacing outdated street entry stairs at 30th and 36th Avenue Stations and making them ADA compliant. An additional entry stair was installed at the Broadway station which was designed to accommodate the increasing volume of passengers with DOT and ADA compliance in mind. All new station entry stairs are enclosed with a metal and glass canopy with recessed lighting, glass guardrails and include local information and wayfinding totems. The handrails are stainless steel with integrated LED lighting. Also, much needed egress stairs at the 30th Avenue and Broadway Stations were provided from platform level to street sidewalk.

BRIEF DESCRIPTION CONTINUED

This Design-Build project was a part of NY Governor Cuomo's Enhanced Station Initiative and included four stations in Astoria, Queens – 30th Avenue Station, Broadway Station, 36th Avenue Station, and 39th Avenue Station on the Astoria Line. This initiative aimed to improve passenger experience at a range of existing stations and establish a framework for design excellence in future stations. The enhancements established a common line-wide identity for NYCT and included improvements to lighting and safety, clearer wayfinding and passenger information systems, more comfortable station environments, integrated technology, considered urban connectivity, expanded amenities, and a new family of station furniture.

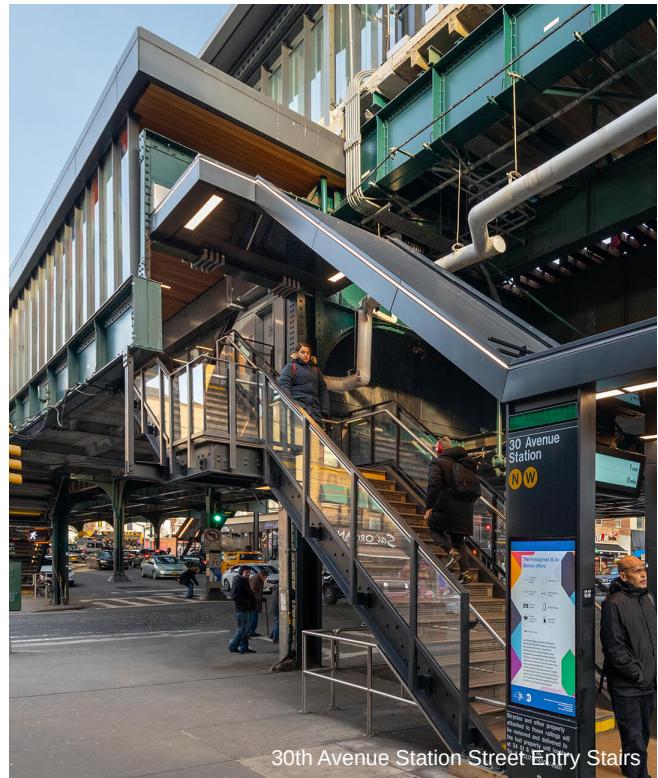
A significant challenge on this project was the shortened time frame which was dictated by the governor's office. Through an innovative design approach that included careful planning, coordination and strategic uses of resources the Design-Build team was able to complete the project within the tight schedule and budget thus being an overall success.

NATURE OF WORK CONTINUED

AECOM was the lead design firm and developed construction documents for all four stations as well as construction support services. AECOM was responsible for managing the design team and coordination with the contractor and design team. Detailed design was provided for structural, and architectural and oversight of MEP subconsultants. Work included replacement of entry stairs, new egress stairs at two stations, replacement of windscreens and bringing the stations to an overall state of good repair all in accordance with the program's overall goal of providing cleaner, brighter stations.

SITE CONDITIONS CONTINUED

The four NYCT stations are located in Astoria, Queens. They are all elevated stations with side platforms and mezzanines hung below the main line structure. Each station is situated above 31st Street and accessible by street to mezzanine stairs. The stations consist of steel structure with cast in place concrete mezzanines and precast concrete platform slabs. New finishes are designed to be long lasting and aesthetically pleasing.



30th Avenue Station Street Entry Stairs



36th Avenue Station Street Entry Stairs

FORM 2: REFERENCE PROJECT DESCRIPTION

Complete a copy of Form 2 for each Reference Project:

Respondent Name	C.A.C. Industries, Inc.			
Reference Project	Design-Build Services for Accessibility Upgrades at 42nd St-Bryant Park & Fifth Avenue Stations (A37149)			
Name of Company	AECOM USA, Inc.			
Role of Company	Construction Contractor:	<input type="checkbox"/>	Designer:	<input checked="" type="checkbox"/>
	Other (describe):	<input type="checkbox"/>		
Experience (years)	Vertical Transportation:	<input checked="" type="checkbox"/>	Other (describe):	<input checked="" type="checkbox"/>
		2		Visual Quality & Enhancement, Infrastructure, Structural, Architectural, MEP
DESCRIPTION OF PRIOR PROJECT				
Name of project	MTA C&D Penn Station East End Gateway & LIRR Concourse			
Location	New York, NY			
Brief description	Penn Station's transformative modernization reaffirms its role as not just a destination but a civic asset. The goal was to create a smooth, seamless, safe and efficient trip for LIRR and NYCT customers.			
Nature of work for which company was responsible	AECOM designed significant improvements to the LIRR leased areas within Penn Station.			
Brief description of site conditions	New York Penn Station is one of the busiest stations in North America.			
List any awards or citations received for the projects	N/A			
Client details (owner / agency/ contractor etc.)	Client Name	MTA C&D/LIRR		
	Address	Jamaica Station, Jamaica, NY 11435		
	Contact name	Peter Matusewitch: MTA C&D Vice President/ Deputy Program Executive Edwin Rivera: Director LIRR ESA/SP		
	Telephone	Peter Matusewitch: (347) 820-0462 Edwin Rivera: (212) 643-5549		
	Contract Reference #	6168A-02-01-C		
Contract value at time of award (US\$)	\$600M		Final value (US\$):	\$600M
% of total work done by Firm:	8%		Commencement date:	12/2016
Planned completion date:	12/31/2020 (Phase 1)		Actual completion date:	03/2023 (Phase 2)
Amount of claims: (US\$)	\$0		Any litigation? (yes or no)	No



Penn Station LIRR Concourse

MTA C&D Penn Station East End Gateway & LIRR Concourse

SIMILARITIES TO ADA UPGRADES AT BRYANT PARK:

Design-Build for MTA
Vertical Transportation
Transportation Infrastructure
Major Metropolitan Area
ADA Compliance
Elevator Design
Railroad and Transit Infrastructure

NATURE OF WORK CONTINUED

AECOM designed significant improvements to the LIRR leased areas within Penn Station. This project added a new iconic entrance to Penn Station from a street level plaza on 33rd Street, directly to the LIRR Connecting Concourse, and doubled the width of this concourse. Back-of-house spaces for LIRR and MTA Police were upgraded, and allowance were made for support functions for future Metro-North Railroad service to Penn Station. The project was undertaken in two phases: Phase 1 included the new 33rd Street Entrance, and Phase 2 covered the concourse improvements. AECOM prepared bridging documents with an expedited approach to support a real estate development agreement, under which the new entrance and concourse improvements were implemented.

These improvements brought immediate relief to the congestion in the station by expanding the concourses, improving access, “rationalizing” the existing spaces – creating smooth, seamless, safe and efficient trips for customers. The project also improved the amenity of the station with greater ceiling heights, modern finishes, improved lighting, and wayfinding.

AECOM has performed project management, estimating and scheduling services, as well as architecture, interiors, structural, mechanical, electrical and fire alarm, plumbing/fire protection, communications, vertical transportation, security, acoustics, civil and utilities design. AECOM has also undertaken pedestrian modeling for level of service, and evacuation simulations of the proposed improvements.

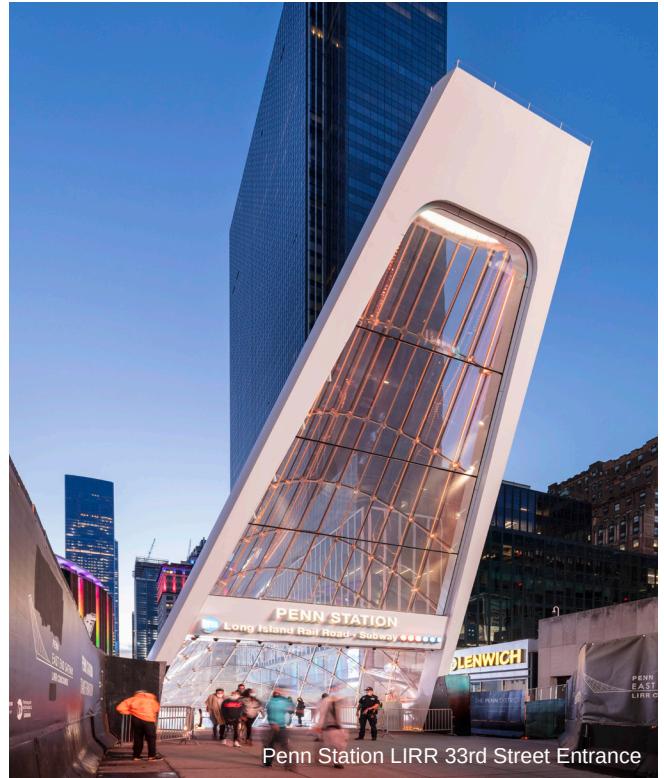
BRIEF DESCRIPTION CONTINUED

Penn Station's transformative modernization reaffirms its role as not just a destination but a civic asset. The goal was to create a smooth, seamless, safe and efficient trip for LIRR and NYCT customers. As part of this effort, AECOM evaluated and designed improvements to areas within Penn Station.

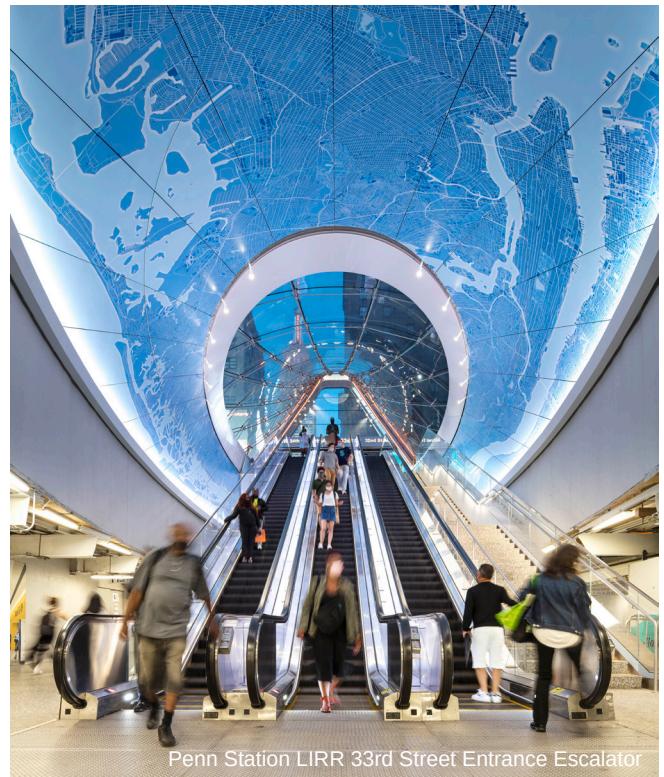
AECOM also prepared bridging documents for an D-B procurement and development agreement to implement the improvements. Accessibility was improved by adding a new street-level elevator that's nearly twice as large as standard transit elevators, widened staircases and fare control area, and the addition of new mosaic artwork. Four other elevators, were replaced in the station to provide more reliable service, and new stairs and enclosures were added at two platforms.

SITE CONDITIONS CONTINUED

New York Penn Station is one of the busiest stations in North America serving 2 commuter rail roads (LIRR and NJT), Amtrak and 6 NYCT subway lines (A/C/E and 1/2/3) totaling almost 600,000 daily riders. The pedestrian corridors along 32nd and 33rd Streets have become overcrowded during the morning and evening rush hours, due to ridership and retail development. The project provides an expansion of the 33rd Street corridor by reducing the depth of retail spaces on either side of the corridor to increase the usable width for pedestrian traffic. The design had to accommodate the construction sequencing and phasing to allow the station to remain open and allow for passenger movement while construction proceeded.



Penn Station LIRR 33rd Street Entrance



Penn Station LIRR 33rd Street Entrance Escalator



VERDE ELECTRIC CORP

FORM 2: REFERENCE PROJECT DESCRIPTION

Complete a copy of Form 2 for each Reference Project:

Respondent Name	C.A.C. Industries, Inc.			
Reference Project	Design-Build Services for Accessibility Upgrades at 42nd St-Bryant Park & Fifth Avenue Stations (A37149)			
Name of Company	Verde Electric Corp			
Role of Company	Construction Contractor:	<input checked="" type="checkbox"/>	Designer:	<input type="checkbox"/>
	Other (describe):	<input type="checkbox"/>		
Experience (years)	Vertical Transportation:	<input type="checkbox"/>	Other (describe):	<input checked="" type="checkbox"/>
		30		Infrastructure, Utilities, Electrical
DESCRIPTION OF PRIOR PROJECT				
Name of project	NYCT ESI Package 3- Enhanced Stations Contract A-36622A			
Location	110th, 86th street, 163rd street and 72nd street MTA Stations			
Brief description	Scope of work for the project was a complete design built project which included the design and installation of all electrical and communication systems at various stations. Verde's expertise in the design process assisted the lead-engineer team with the layout/design for the electrical systems.			
Nature of work for which company was responsible	Verde Electric is responsible for all electrical and communication construction work.			
Brief description of site conditions	110th, 86th, 163rd, 72nd Street MTA stations.			
List any awards or citations received for the project	N/A			
Client details (owner / agency/ contractor etc.)	Client Name	ECCO III		
	Address	201 Saw Mill River Road, Yonkers NY 10701		
	Contact name	Richard Lombardi		
	Telephone	914-963-3600		
	Contract Reference #	A-36622A		
Contract value at time of award (US\$)	\$110M		Final value (US\$):	\$110M
% of total work done by Firm:	25%		Commencement date:	09/2018
Planned completion date:	09/2020		Actual completion date:	09/2020
Amount of claims: (US\$)	\$0		Any litigation? (yes or no)	No



NYCT ESI PACKAGE 3

SIMILARITIES TO ADA UPGRADES AT BRYANT PARK:

Design-Build for MTA
Vertical Transportation
Transportation Infrastructure
Major Metropolitan Area
ADA Compliance
Elevator Design
Railroad and Transit Infrastructure



BRIEF DESCRIPTION CONTINUED

The ESI Package 3 contract covered four stations on the IND Eighth Avenue Line, serving both the B and C lines in Manhattan. Stations included 72nd Street, 86th Street, 110th Street, and 163rd Street. Verde Electric Corp (VEC) was responsible for station enhancements, including the installation of countdown clocks, Wi-Fi, Help Points, LED lighting, and general improvements to enhance the customer experience.

NATURE OF WORK CONTINUED

As the designated MTA-experienced electrical contractor for the Design-Build Team, VEC was responsible for the following:

- Design Assistance: Bridging the gap between NYCT's needs, the design plans, and the final Released for Construction (RFC) drawings.

Leveraging extensive transit construction experience, VEC enhanced design constructability during the review process.

- Procurement & Submittals: Ensuring all systems and equipment met MTA criteria while adhering to the construction schedule. This included identifying installation locations that satisfied all stakeholders, including the Station Clearing House and Communications teams.
- NYCT Communications Coordination: Assisting with the layout of equipment in communication rooms (MR-XXs) and ensuring adequate power supply from existing Communications Panels. Where necessary, VEC provided new power from Electrical Power Rooms (EPRs) or Electrical Distribution Rooms (EDRs).
- Countdown Clocks: Ensuring proper placement based on NYCT's criteria for visibility and functionality.

- Wi-Fi Installation: Strategically positioning Wi-Fi units to optimize coverage within the subway environment.
- Help Points: Determining optimal placement to support networking requirements and maximize accessibility for the public.
- LED Lighting Upgrades: Installing LED lighting in key areas to meet the lighting designer's photometric requirements.
- Minimizing Visual Footprint: Routing system wiring through troughs where practical to maintain a clean Commissioning & Testing: VEC's extensive experience in completing MTA projects ensures a seamless transition from construction to commissioning and testing. Our proactive approach allows us to stay ahead of the process, ensuring all systems are ready for final acceptance without delays.
- Safety: VEC prioritizes safety above all else, maintaining an exceptional safety record with a rating of [insert rating here]. Our commitment to rigorous safety protocols ensures the well-being of our workforce and the public.
- Quality: VEC implements a stringent quality control process to ensure all installations meet MTA's rigorous standards. Our team follows detailed inspections and testing procedures to guarantee compliance and long-term system reliability.



This project shares several key elements with the ADA Upgrades At Bryant Park, including:

- Design-Build Process: Collaborative approach to streamline design and construction.
- Subway Environment: Work within the IND line, requiring expertise in transit infrastructure.
- Communication Systems: Installation of countdown clocks, Wi-Fi, and Help Points.
- Electrical Systems: Power distribution, lighting upgrades, and system integration.
- Manhattan Location & Logistics: Navigating complex urban construction challenges.

SITE CONDITIONS CONTINUED

1. The 72nd Street Station is a local station on the IND Eighth Avenue Line of the New York City Subway, located at 72nd Street and Central Park West on the Upper West Side. It is served by the B train on weekdays, the C train at all times except nights, and the A train during late nights.
2. The 86th Street Station is a local station on the same line, situated at Central Park West and 86th Street on the Upper West Side. It follows the same service pattern as 72nd Street, with the B train on weekdays, the C train at all times except nights, and the A train during late nights.
3. The Cathedral Parkway–110th Street Station is located at West 110th Street and Frederick Douglass Boulevard, at the northwest corner of Central Park, serving the Upper West Side and Morningside Heights. It is also served
4. by the B train on weekdays, the C train at all times except nights, and the A train during late nights.
5. The 163rd Street–Amsterdam Avenue Station is in Washington Heights at the intersection of Amsterdam and St. Nicholas Avenues. It is served by the C train at all times except nights, when the A train takes over service.

MID-AMERICAN ELEVATOR

Exit Bryant Park
42 Street &
6 Avenue

Downtown &
Brooklyn

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FORM 2: REFERENCE PROJECT DESCRIPTION

Complete a copy of Form 2 for each Reference Project:

Respondent Name:	C.A.C. Industries, Inc.			
Reference Project	Elevator Manufacturer Reference Project #1			
Name of Company	Mid-American Elevator Co., Inc 			
Role of Company	Construction Contractor:		Designer:	
	Other (describe):	<input checked="" type="checkbox"/> Elevator Manufacturer		
Experience (years)	Vertical Transportation:	51	Other (describe):	49 (other sectors, e.g. malls, commercial)
DESCRIPTION OF PRIOR PROJECT				
Name of project	Long Island Rail Road (LIRR) Expansion Project from Floral Park to Hicksville			
Location	Queens to Long Island, NY			
Brief description	Design-Build services for LIRR including new installation of 12 hydraulic elevators and one traction elevator for ADA compliance, ADA accessibility, and quality material for long-lasting durability. The project started in January 2018. The pandemic caused restraints in all areas such as supply, deliveries, manpower, installation, and testing. Mid-American was able to work through these setbacks and is project to be completed by the planned completion date.			Meeting & Exceeding Project Objectives <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Design-build <input checked="" type="checkbox"/> Heavy Duty Elevator Manufacturing <input checked="" type="checkbox"/> Railroad and Transit Infrastructure <input checked="" type="checkbox"/> \$5 million <input checked="" type="checkbox"/> More than 5 Elevators <input checked="" type="checkbox"/> More than 2 Locations <input checked="" type="checkbox"/> Completed/Ongoing between 2012-Present <input checked="" type="checkbox"/> Quality Product <input checked="" type="checkbox"/> On Schedule <input checked="" type="checkbox"/> Within Budget
Nature of work for which company was responsible	Furnish and install material with OEM warranties from reliable vendors. Oversight of all work to ensure strict compliance with specifications and safety. Financial forecasting to ensure the project stayed on budget and labor supervision and lookahead to allow for planned completion date.			
Brief description of site conditions	This project is an active construction site in a high traffic area comingling with the public. Currently, 40% of LIRR riders travel along this section on the main line. Mid-American's 30 years of experience provides the firm with the familiarity with which products last in a harsh transit environment. All environmental conditions cannot be controlled for, but the firm is able to control for many of them with the design of the elevators and monthly preventative maintenance.			

List any awards or citations received for the project	NA		
Client details (owner / agency/ contractor etc.)	Client Name	3 rd Track Constructors	
	Address	900 Merchants Concourse, Ste. 400 Westbury, NY 11590	
	Contact name	Onur Kesimal	
	Telephone	(917)783.0048	
	Contract Reference #	MTA #6240	
Contract value at time of award (US\$)	\$10,048,500.00	Final value (US\$):	\$11,373,708.44
% of total work done by Firm:	90%	Commencement date:	January 2018
Planned completion date:	December 2022	Actual completion date:	February 2023
Amount of claims: (US\$)	\$0	Any litigation? (yes or no)	No

FORM 2: REFERENCE PROJECT DESCRIPTION



Mid-American Elevator

Respondent Name:	C.A.C. Industries, Inc.			
Reference Project	Elevator Manufacturer Reference Project #2			
Name of Company	Mid-American Elevator Co., Inc.			
Role of Company	Construction Contractor:		Designer:	
	Equity Member:		Elevator Manufacturer:	X
	Elevator Installer:		Elevator Maintainer:	
	Other (describe):			
Experience (years)	Transit Infrastructure:	51 years	Other (describe):	49 years of experience e in supplying, installing and maintaining elevators for other sectors e.g. malls, offices, commercial.

DESCRIPTION OF PRIOR PROJECT

Name of project	Design-Build Services for the 14 th Street ADA Complex		
Location	Borough of Manhattan, New York		
Brief description	Replacement of 9 hydraulic elevators located at various stations for ADA compliance and long-term performance.		
Nature of work for which company was responsible	Furnish and install ADA compliant material, of the highest quality, with OEM warranties from reliable vendors. Oversight of all work to ensure strict compliance with specifications and safety. Financial forecasting to ensure the project stayed on budget and labor supervision and lookahead to allow for planned completion date.		
Brief description of site conditions	With Mid-American's experience working on transit elevators, we were able to navigate the environmental conditions associated with this installation. With various stations throughout Manhattan a high-level of coordination, logistics' and quality control is needed. Our team scheduled, delivered, and installed the elevators amongst the high-traffic, general public areas surrounding the jobsite.		
List any awards or citations received for the project	N/A		
Client details (owner / agency/ contractor etc.)	Client Name	Citnalta-Forte Joint Venture	
	Address	1601 Locust Avenue Bohemia, NY 11716	
	Contact name	Tony Kebbe	
	Telephone	(484) 550-2734	
	Contract Reference #	A-37129	

Contract value: (US\$)	\$5,570,000.00	Final value (US\$):	\$5,573,345.78
% of total work done by Firm:	90%	Commencement date:	April 2022
Planned completion date:	June 2024	Actual completion date:	June 2024
Amount of claims: (US\$)	N/A	Any litigation? (yes or no)	No