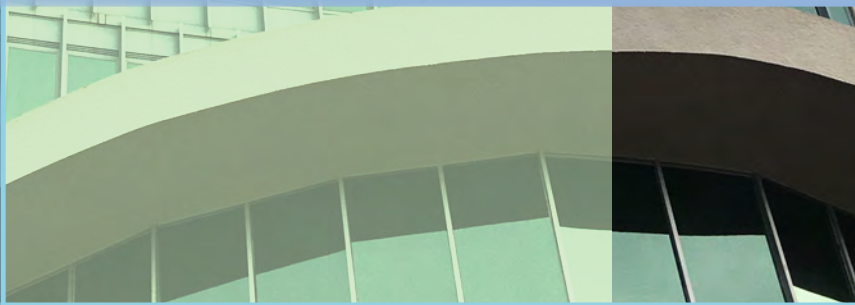


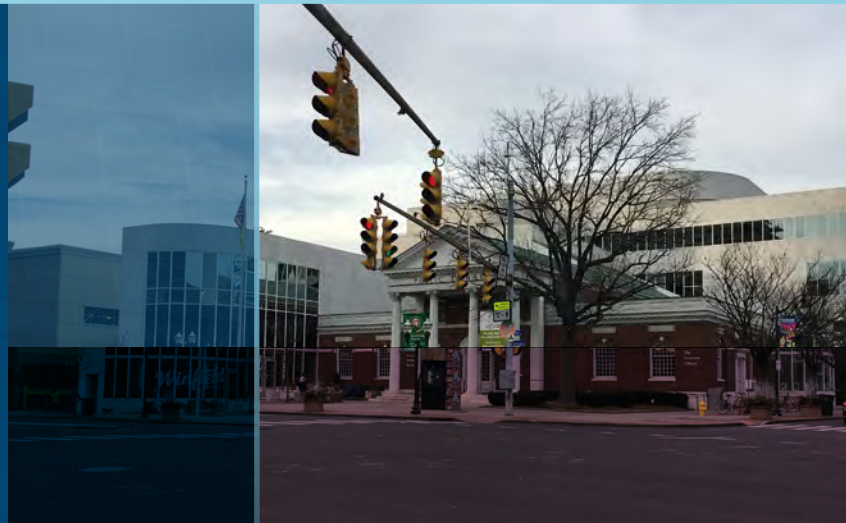
# P R O P O S A L



submitted for  
RFQ 792  
BROAD STREET CORRIDOR SAFETY  
IMPROVEMENTS DESIGN

submitted to  
CITY OF STAMFORD

submitted by







**Environmental, Planning, and Engineering Consultants**

700 Canal Street  
Building 1, Floor 1  
Stamford, CT 06902  
tel: 203 666-2030  
[www.akrf.com](http://www.akrf.com)

March 5, 2020

Frank W. Petise, PE, Traffic Engineer  
Transportation, Traffic & Parking  
City of Stamford  
Government Center  
888 Washington Boulevard, 7th Floor  
Stamford, CT 06901

**Re: Stamford RFQ No. 792 Broad Street Corridor Safety Improvements Design**

Dear Mr. Petise:

AKRF, Inc. (AKRF) is pleased to present one (1) original plus five (5) copies and digital PDF copies on two (2) flash drives of our Statement of Qualifications for multi-disciplinary engineering consulting services for the City of Stamford's Broad Street Corridor Safety Improvements. Since 1981, AKRF has successfully provided a full range of design, traffic, and planning services to address our client's needs on a wide variety of projects including extensive experience with safety improvements and roadway design in dense urban areas. We are recognized as a leader in developing context-sensitive designs, utilizing our deep technical knowledge, comprehensive resources, strategic work approach, and understanding of urban transportation systems to enable quick resolution to challenges that meet project goals. Our team has successfully expedited designs and implemented safety improvement measures for many of New York City's most dangerous and congested corridors, and through our new location in the City of Stamford, we hope to bring our urban expertise locally to the economic center of Connecticut.

We have assembled an outstanding leadership team for this assignment, providing depth of technical expertise in a broad range of specialties. As the Principal-In-Charge (PIC), Michael Beattie, PE, PTOE will ensure that the City is provided with dedicated staff that has the resources and experience to complete the project efficiently and expeditiously. Marissa Tarallo, PE, PTOE will serve as the Project Manager. Marissa has extensive experience managing multi-disciplinary projects for the firm including our planning, transportation, engineering and construction management services and will serve as the main point of contact for the City. She specializes in conceptual roadway design and recommending measures to improve safety, circulation and traffic flow. Michael and Marissa have worked together at AKRF for almost ten years to cooperatively and seamlessly re-envision roadways for municipalities to meet the evolving needs of their communities. With comprehensive multi-disciplinary technical support, the AKRF Team can provide solutions that respond to the City's commitment to achieving excellence in design and delivery.

Thank you for the opportunity to submit this proposal. We hope our qualifications and experience with transportation and civil engineering services meet your expectations and demonstrates our ability to deliver the high level of service and attention we have provided on past assignments. Please do not hesitate to me by phone (203-666-2030) or email ([mbeattie@akrf.com](mailto:mbeattie@akrf.com)) with any questions regarding this proposal.

Sincerely,  
AKRF, Inc.

A handwritten signature in black ink, appearing to read 'Michael Beattie'.

Michael Beattie, PE, PTOE  
Vice President

cc: Freeman Companies, LLC, 39 John Street Hartford, CT 06106  
Stantec Consulting Services, Inc., 30 Oak Street, Suite 400, Stamford, CT 06905



Letter of Intent

Proposer's Information and Acknowledgement Form

**1 FIRM PROFILE**

**2 STATEMENT OF EXPERIENCE WITH REFERENCES**

**3 STATEMENT OF ORGANIZATION, ORGANIZATION CHART AND RESUMES**

**4 PROJECT APPROACH**

**5 SF 330 PART II**

**6 REQUIRED FORMS**

## F I R M P R O F I L E

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**A**KRF is a multidisciplinary consulting firm specializing in all aspects of transportation and municipal planning, civil, traffic and transportation engineering design, permitting, and construction management and inspection. Founded in 1981, we bring together the talents of over 350 employees throughout the Northeast and Mid-Atlantic to handle a wide variety of projects for public agencies, private clients, and municipalities. We are successful because of our technical skill, and because we do whatever it takes in each project stage to accomplish our clients' goals in a timely and cost effective manner. By combining the breadth and resources of larger firms with the specialized know-how and attentiveness offered by smaller ones, AKRF has successfully completed thousands of projects both large and small.



The primary advantage to AKRF's multidisciplinary nature is the ability for fluid communication among the various professionals. Our integrated approach of teaming the traffic engineers who envision circulation and roadway improvements with our experienced roadway engineers will provide a design framework that is able to adapt to new or unforeseen constraints with minimal disruption. Our team is uniquely positioned to execute roadway and traffic design with efficient coordination and an approach focused on the City's ultimate goals.

AKRF's engineers have proven their ability to handle multiple large traffic & engineering contracts, whether as individual assignments or under on-call contracts. Our success derives from ensuring that the proper resources are dedicated to a project – and just as importantly – that consistent leadership and oversight is provided. When the need arises, we are able to fast-track projects by re-allocating resources as necessary to meet project goals. Using this basic framework, AKRF provides a high level of service to all of our clients.

## TRAFFIC & TRANSPORTATION SERVICES

AKRF provides comprehensive traffic and transportation planning and design services – from transportation planning, analysis and alternatives evaluation during conceptual design, to traffic engineering design for preliminary through final design, and traffic and pedestrian management during construction and post implementation studies. AKRF also provides planning and design services related to Intelligent Transportation System (ITS) infrastructure including preemption and Adaptive Traffic Control Systems. We employ state-of-the-art technology, including Synchro/SimTraffic, VISSIM, Viswalk, GIS, and web-based survey capabilities to provide the most precise and detailed information for accurate analysis. Our traffic engineers coordinate and balance the multipurpose roadway among its various users including vehicles, public transit, pedestrians, and bicyclists and provide clients with the necessary expertise and creativity to achieve their project goals.

## SITE/CIVIL ENGINEERING SERVICES

AKRF offers proven experience in the full complement of engineering services including site planning; roadway, street, parking and site circulation design; utility design including sewers, drainage systems, and water mains; grading and stormwater management systems (including Stormwater Pollution Prevention Plans [SWPPPs]); landscape design and erosion control measures; geotechnical engineering; and cost estimating, permitting, construction administration, and inspection. AKRF is experienced in designing roadway improvements that reallocate and repurpose areas dedicated to vehicular travel in the interest of improving service and safety for non-vehicular users.

## CONSTRUCTION INSPECTION & RESIDENT ENGINEERING

AKRF offers a full range of construction administration and resident engineering services for private and public construction projects involving a variety of site and street improvements, such as demolition, excavation, reinforced concrete, roadway reconstruction, utility installation, grading and drainage improvements, traffic signals and lighting, and erosion and sediment control measures. We have represented clients by performing regular periodic inspections to full-time site representation as a resident engineer.

## SUBCONSULTANT PROFILES

### Electrical Engineering (Stantec Consulting Services, Inc.)

Founded in 1954, **Stantec** provides professional design and consulting services in planning, engineering, architecture, surveying, economics, and project management. Continually striving to balance economic, environmental and social responsibilities, they are recognized as a world class leader and innovator in the delivery of sustainable solutions. Stantec supports public and private sector clients in a diverse range of markets in the infrastructure and facilities sector at every stage, from initial concept and financial feasibility to project completion and beyond. Stantec's services are offered through over 22,000 employees operating out of more than 400 locations globally.

### Surveying (Freeman Companies, LLC)

**Freeman** Companies' specializes in land surveying, civil engineering, hydraulic/hydrologic engineering, geotechnical engineering, landscape architecture, environmental sciences, hazardous materials investigation, transportation and traffic/safety engineering, bridge/structure engineering and inspection, utilities engineering, construction engineering and inspection, contractor support services, and owner's representation for projects in the governmental, educational, commercial, industrial, institutional and infrastructure markets. The firm is a certified Disadvantaged Business Enterprise (DBE), Minority Business Enterprise (MBE), Small Business Enterprise (SBE) and SAM-Active, Federal US SBA 8(a) professional consulting enterprise.



**S T A T E M E N T   O F   E X P E R I E N C E  
W I T H   R E F E R E N C E S**

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## ADELAAR RESORT, THOMPSON, NY

**A**KRF was retained by EPR Properties to provide engineering design and construction support services for the development of extensive public infrastructure improvements associated with the Adelaar Resort Development in Thompson, NY. AKRF also provided a comprehensive environmental review and SEQRA documentation for the master development plan.

EPR is in the process of constructing a resort destination including a hotel casino, golf course, waterpark and retail shopping center. Significant improvements to the Town's and NYSDOT's roadway and utility infrastructure were necessary to facilitate the development. AKRF was responsible for engineering design and construction support for the following key infrastructure improvements that will ultimately be dedicated to the Town of Thompson and NYSDOT.

- **NYS Route 17 Exit 106 Interchange** - AKRF has provided design and construction support services to increase the capacity of NYS Route 17 Exit 106 interchange. The improvements include widening the existing off ramp, horizontal and vertical design of proximate county and town roads, signalized intersection design, roundabout design, guide rail design, roadway striping and signage design, pavement design, staging / phasing, and maintenance and protection of traffic. All roadways and intersection designs are based on NYSDOT Highway Design Manual, AASHTO Geometric Design of Highways and Streets, and Roadside Design Manual. The overall design of the interchange was reviewed and approved by the Sullivan County Division of Public Works and NYSDOT.
- **Resort Entry Road** - AKRF has provided services in roadway design and construction support to provide access between the future Adelaar Resort and New York State Route 17. The new four lane divided parkway is over two miles long and passes through streams, wetlands, and complex terrain. AKRF provided services included horizontal and vertical design, sight distance analysis, superelevation design, guide rail design, roadway striping and signage design, pavement design, stream and wetlands crossing, and signalized intersection design. The new roadway design criteria is based on NYSDOT Highway Design Manual, AASHTO Geometric Design of Highways and Streets, and Roadside Design Manual and satisfied reviews and comments from Town Engineer of Thompson.

### REFERENCE

**Nicole M Emmons, AIA**

Hart Howerton

212-683-5631 x124

nemmons@harthowerton.com



## CITY OF NEW ROCHELLE, NY TRAFFIC ENGINEERING SERVICES

Since 2015, AKRF has been retained by the City of New Rochelle to provide traffic and transportation services to address the City's development plans and Complete Streets Policy. In that time AKRF has analyzed over 75 intersections for operations and improvements as well as 15 corridors for complete street, traffic calming and multimodal improvements. Relevant projects include:

- City-Wide Complete Streets** - AKRF prepared a city-wide study to determine optimal corridors for improved street design to encourage walking, cycling, and safety. Phase 1 of the study involved collecting existing conditions data and presenting priority roadways to key stakeholders for implementation of Complete Street Designs for review and input from City staff and community stakeholders. Phase 2 involved conducting walking audits with project stakeholders to aid in developing conceptual level Complete Streets plans and cross sections. Improvements included road diets, implementing bicycle lanes, widening sidewalks, adding crosswalks at pedestrian desire lines, and roundabouts.
- Quaker Ridge Road Complete Streets Design** – Following the city-wide Complete Street study, AKRF assisted the City in securing grant funding to further develop and construct Complete Street design elements along Quaker Ridge Road. The 1.5 mile long corridor would reduce the number of travel lanes from four to two, introduce bike facilities and pedestrian sidewalks, and realign a key intersection to reduce the number of conflict points and reduce vehicle turning speeds. In addition, new signal phasing was developed to eliminate existing vehicle-pedestrian conflicts.
- Downtown Parking Study** - AKRF was tasked with conducting a downtown parking utilization study to summarize the existing parking conditions and identify opportunities to improve parking availability. The study included collecting on-street and off-street parking utilization rates as well as developing an inventory of on-street and off-street parking regulations. Recommendations to improve parking included roadway two-way to one-way circulation changes to provide an additional lane of parking, regulation changes for overnight parking, and wayfinding improvements.
- Downtown Circulation Study** - AKRF was retained to identify and test opportunities and recommendations to improve circulation within a study area encompassing over 50 intersections. This included improving vehicular and pedestrian circulation near the New Rochelle Train Station, the conversion of street directions (one-way streets to two-way streets and vice versa), implementing turn restrictions, creating pedestrian plazas, widening sidewalks, and providing a pedestrian crossing over I-95 via a pedestrian bridge. AKRF prepared microsimulation models of corridors in the study area utilizing Synchro and SimTraffic software, and presented video clips of the results to the public and stakeholders. AKRF developed and calibrated/validated the existing models based on field observations and data collection and developed future volumes for proposed circulation changes. AKRF also prepared technical memorandums outlining results of various stages of the project and assessed the feasibility of the proposed circulation changes. In addition, AKRF developed average daily traffic, greenhouse gas emissions, vehicle miles traveled, and average speed estimates to ensure compliance with Federal Highway Administration (FHWA) funding for upgrading the existing signal system.



### REFERENCE

#### Luiz Aragon

Commissioner of Development  
City of New Rochelle  
515 North Avenue  
New Rochelle, NY 10801  
914-654-2182  
laragon@ci.new-rochelle.nyu



## TOWN/VILLAGE MUNICIPAL TRANSPORTATION PLANNING & TRAFFIC ENGINEERING SERVICES

For over two decades, AKRF has provided transportation planning and traffic engineering services as an on-call consultant to various municipalities in New York including the Villages of Port Chester and Mamaroneck and the Towns of Clarkstown, East Fishkill, and Cortlandt. Our responsibilities include conducting traffic engineering and circulation studies, leading safety, traffic calming and safe routes to school studies, performing Complete Street projects, and preparing parking studies. Our staff coordinate with municipal officials from the mayor/supervisor level to the Planning, Public Works or Engineering Department staff level, and regularly conduct public outreach activities and testify to municipal boards such as the Planning Board. AKRF may also, when required, review traffic, parking and transportation studies prepared by land use applicants to ensure compliance with accepted traffic engineering practices.

- Village of Port Chester On-Call Traffic Engineering Services, Port Chester, NY** - AKRF provides on-call traffic and transportation engineering services to the Village of Port Chester including review of site plan applications, conducting intersection analyses to develop intersection improvements, parking and loading zone studies, and complete street and traffic calming studies to improve safety. AKRF has reviewed over 30 site plan applications for traffic, parking, and safety impacts, working with applicants to develop pedestrian safety improvements and traffic mitigation measures. Other on-call tasks have included conducting traffic signal control warrant studies at an intersection adjacent to the King Street School to improve school pedestrian safety; evaluating pedestrian safety and crash trends as part of the Village's proposed downtown streetscape improvements; evaluating traffic impacts of the Village's downtown form-based code rezoning effort and developing mitigation measures relating to traffic, pedestrians, bicyclists, and transit users; and conducting intersection improvement studies at various locations throughout the Village to identify existing traffic safety issues and developing safety improvements through pedestrian and traffic analyses. In 2019, AKRF was also retained by the Village for on-call engineering services. Tasks will include civil engineering design for roadway improvements, sidewalks, and other pedestrian infrastructure; preparing specifications, schedules, and cost estimates; and traffic and pedestrian studies associated with the proposed improvements.

### REFERENCES

#### PORT CHESTER

##### Eric Zamft, AICP

Director of Planning and Economic Development  
 222 Grace Church St, Suite 202  
 Port Chester, NY 10573  
 914-937-6780  
[ezamft@portchesterny.com](mailto:ezamft@portchesterny.com)

#### CLARKSTOWN

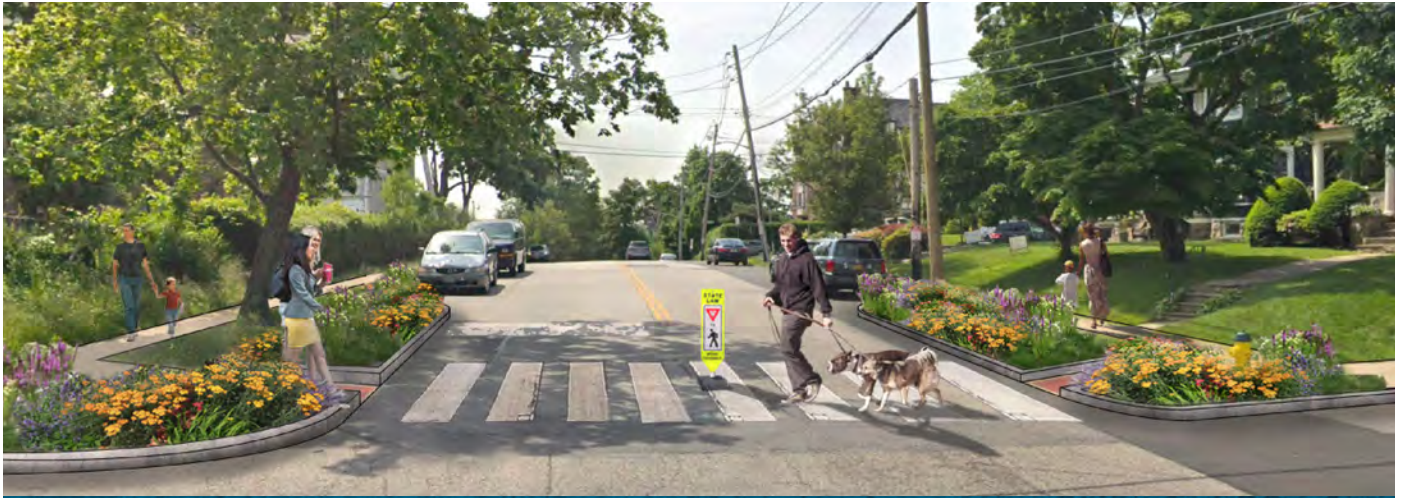
##### Jose Simoes

Principal Town Planner  
 10 Maple Avenue  
 New City, NY 10956  
 845-639-2067  
[j.simoes@clarkstown.org](mailto:j.simoes@clarkstown.org)

#### MAMARONECK

##### Dan Sarnoff

Assistant Village Manager  
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 123 Mamaroneck Avenue  
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## TOWN/VILLAGE MUNICIPAL TRANSPORTATION PLANNING & TRAFFIC ENGINEERING SERVICES (CONT.)

- **Clarkstown Complete Streets, Clarkstown, NY** - AKRF is providing transportation planning, traffic engineering, and public outreach services to the Town of Clarkstown in support of its Complete Streets Policy. Using Rockland County Department of Health grant funds, AKRF completed three complete streets projects which improved commuter access to the Nanuet Metro-North Station, increased safety and walkability to the Town Community Center in Spring Valley, and provided a sidewalk connection along a busy street in a dense commercial area in West Nyack. AKRF drafted a Complete Street Committee handbook to guide the Town's committee in selecting and coordinating projects including best practices, site selection and project scoping guidance, a toolbox of improvements unique to the Town, and recommendations on community and stakeholder coordination for successful complete streets project implementation. AKRF also conducted two additional Complete Street projects in New City and West Nyack to address vehicular and pedestrian safety, speeding, safe routes to schools, park access, and residential livability issues.
- **Village of Mamaroneck Transportation Engineering On-Call, Mamaroneck, NY** - AKRF is contracted to provide on-call transportation planning and engineering services to the Village. AKRF's role is to field requests from the Mayor, Village Manager's Office, Engineer, Planner, and Traffic Board to conduct safety, traffic calming, school safety, and complete street studies in support of the Village's Safe Street initiative and Vision Zero policy, and review private applicant traffic and parking studies and provide testimony to Village Trustee, Planning and Zoning Board of Appeals as needed. Tasks have included a traffic calming study for a residential neighborhood with complaints of speeding and cut-through traffic next to the Rye Neck High School/Middle School campus, attending several walking safety assessments, identifying pedestrian safety improvements for an intersection near Palmer Avenue, developing a list of school safety improvements and preliminary cost estimates so the Village could apply for a Community Development Block Grant for the Mamaroneck Avenue School, recommending speed reduction measures on streets in the Washingtonville neighborhood, and identifying streets in the Village that could be restriped for Complete Street improvements when they are repaved. AKRF also developed several concepts for a new school crosswalk at the busy Mamaroneck Avenue, Halstead Avenue and Mt. Pleasant Avenue intersection by the Metro-North Station and coordinated review with the Traffic Engineer for the Westchester County Department of Transportation and Public Works.



## NYCDOT ENGINEERING SERVICE AGREEMENT FOR ENGINEERING, DESIGN, AND INSPECTION SERVICES CITYWIDE

As part of a 3-year on-call contract, AKRF is the Prime consultant leading a team of engineers to deliver one of the four Great Streets corridors in New York City, Grand Concourse in The Bronx. A flagship of the Vision Zero program to transform high-crash arterial roads, the Great Streets initiative redesigns major corridors to prevent crashes, enhance mobility, increase accessibility, and bolster neighborhood vitality. In addition, AKRF is assisting the city in developing city-wide standards for safety and accessibility improvement measures.

- **The Reconstruction of Grand Concourse** - AKRF is currently providing NYCDOT with Preliminary and Final Design services for the roadway reconstruction of Grand Concourse in The Bronx as part of DOT's Vision Zero Great Streets Initiative. The goals of the project are to improve safety for pedestrians and cyclists, rationalize traffic flow, and improve livability for residents. The central focus of the reconstruction involves widening the existing medians, as well as introducing new median segments to eliminate unsafe vehicle movements. The slip ramps between access roads and the mainline roadway are being redesigned to discourage speeding and increase visibility of cyclists, with guidance from the National Association of City Transportation Officials (NACTO) Urban Street Design Guide and NYCDOT Street Design Manual. As part of the Preliminary Design, AKRF prepared a traffic analysis report to recommend potential improvements to be implemented in the Schematic Geometric Design. As the project was partially federally funded, AKRF coordinated with NYCDOT and NYCDOT to prepare the Design Approval Document (DAD) and the final Plans, Specifications, and Estimate (PS&E) for submission to NYSDOT.
- **The Delancey Street Safety Improvements** - The Delancey Street corridor is classified as being among the top 10 percent of High Crash Corridors in the City, with the highest rates of pedestrians killed or severely injured in the borough in the last five years. AKRF is currently providing NYCDOT engineering design services to implement pedestrian safety, a new bike path and streetscape improvements on Delancey Street between Clinton Street and Bowery in lower Manhattan. Recommended improvements include sidewalk extensions, pedestrian and bicycle wayfinding signage, pedestrian ramps, new crosswalks, and new bike lanes. With the introduction of the crosstown bicycle lanes and the new connections to the existing uptown and downtown bicycle traffic, this will further improve the interconnection within the existing bicycle network in the borough.

### REFERENCE

**Hanan Bashjawish, PE,**  
Director, Capital Project Engineering  
New York City Department of  
Transportation  
55 Water Street, New York, NY 10041  
212-839-6957  
hbashjawish@dot.nyc.gov

# NYCDDC ON-CALL ENVIRONMENTAL AND ENGINEERING TERM CONTRACT (HWEAR03), VARIOUS LOCATIONS, NY

Since 2014, AKRF as part of a joint venture has provided on-call environmental and engineering support to the NYCDDC infrastructure division for various projects throughout the city. Some of the services provided under this contract include Environmental Assessment Statements (EASs), Uniform Land Use Review Procedure (ULURP) support, traffic studies in support of roadway improvements, and roadway design including the preparation of roadway reconstruction design drawings and specifications for contractor bidding. AKRF is directly responsible for the implementation and monitoring of the task orders issued including the project management, staffing, schedule, and budgetary requirements of the contract.

- **Reconstruction of Travis Avenue, Staten Island, NY** - AKRF is preparing design documents for the roadway realignment and widening of Travis Avenue in Staten Island to reduce traffic congestion and improve safety along this heavily used truck route which recently introduced a multi-use greenway along the southern boundary of the roadway. AKRF prepared the traffic analysis and evaluated several roadway alternatives including signals, roundabouts and pedestrian safety measures to develop a preliminary design which provides for better traffic routing to the major corridors adjacent to Travis Avenue as well as pedestrian safety improvements such as new crosswalks, new sidewalks, and curb extensions. AKRF is currently preparing the design drawings and specifications in coordination with NYCDDC and NYCDOT.

## REFERENCE

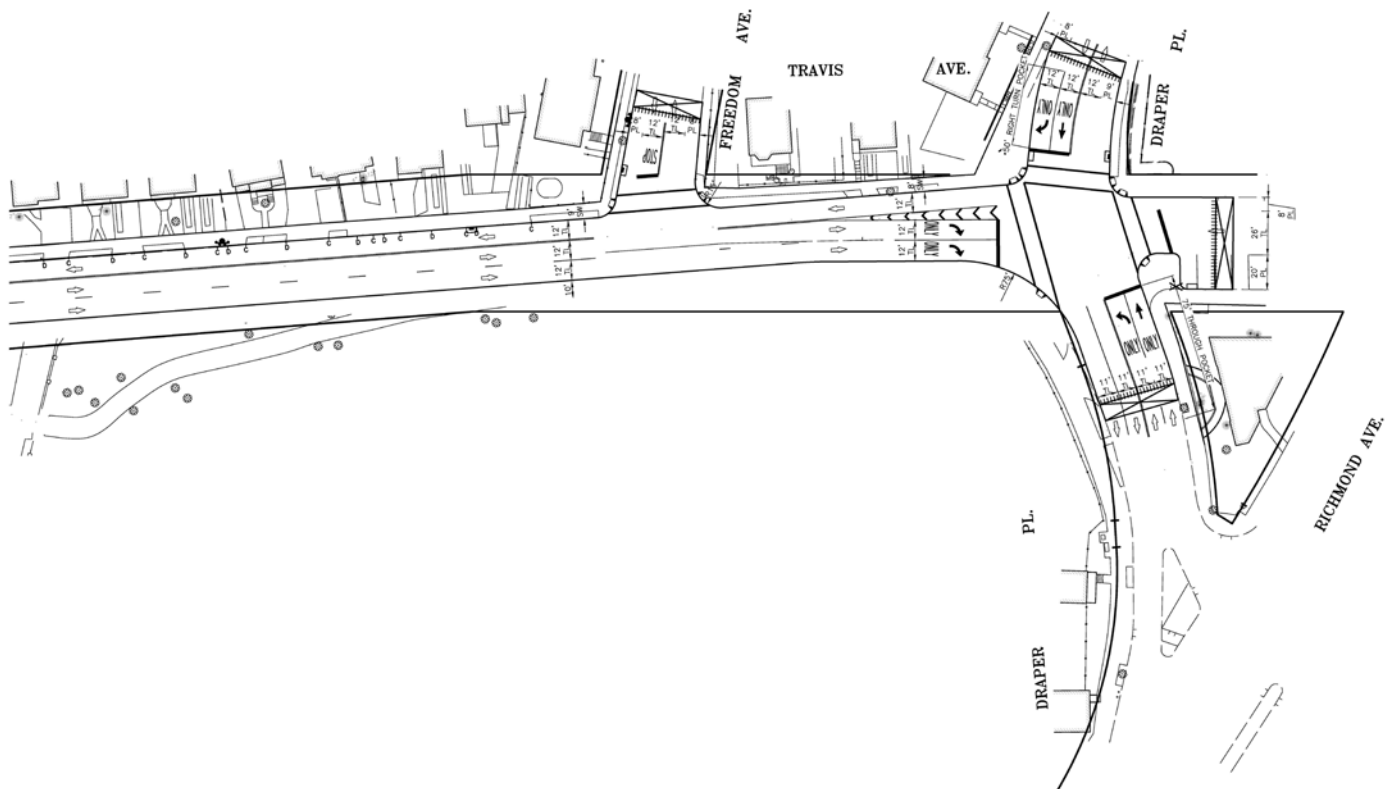
### Hayden Benjamin

New York City Department of  
Transportation

55 Water Street, New York, NY 10041

212-839-4911

hbenjamin@dot.nyc.gov





## U.S. ROUTE 6 TRAFFIC SIGNAL IMPROVEMENTS, TOWN OF CORTLANDT, NY

Following the completion of the Cortlandt Crossing EIS prepared by AKRF for the 36-acre Cortlandt Crossing retail development located on U.S. Route 6 in Cortlandt, NY, AKRF provided design and permitting services for the roadway and traffic signal improvements identified by AKRF necessary to provide for sufficient traffic flow. Improvements included two new traffic signals adjacent to the proposed development as well as the design and installation of an emergency vehicle preemption system for ten intersections and an Adaptive Traffic Control System (ATCS) for seven traffic signals along approximately 1.6 miles of U.S. Route 6.

AKRF provided preliminary design documents for the proposed traffic signals and preemption devices based on NYSDOT specifications, met and coordinated with NYSDOT, provided response to comments, and prepared the final design documents for construction.

In addition, AKRF guided key stakeholders through the selection process for an ATCS that maintained the use of NYSDOT's central management software and provided unique solutions to detection, communication, and pedestrian management constraints. AKRF also provided construction inspection services for the project as the NYSDOT consultant inspector. AKRF was tasked with supervising construction activities (road widening, drainage improvement, new signals and upgrades) to confirm compliance with NYSDOT standards and specifications.

### REFERENCE

#### Matthew Harrison

Director, Development  
Acadia Realty Trust  
914-288-8198  
mharrison@acadiarealty.com

#### Maureen Kuinlan, PE

Regional Traffic Signal Engineer  
NYSDOT Hudson Valley  
610 Dutchess Turnpike  
Poughkeepsie, NY 12603  
845-437-5143  
maureen.kuinlan@dot.ny.gov







## HARTSDALE FOUR CORNERS ENGINEERING/PLANNING CONSULTANT SERVICES, TOWN OF GREENBURGH, NY

**A**KRF is providing engineering and transportation planning services to the Town of Greenburgh to provide initial insight into the redevelopment capacity of the Four Corners area surrounding the intersection of Central Park Avenue and East & West Hartsdale Avenues.

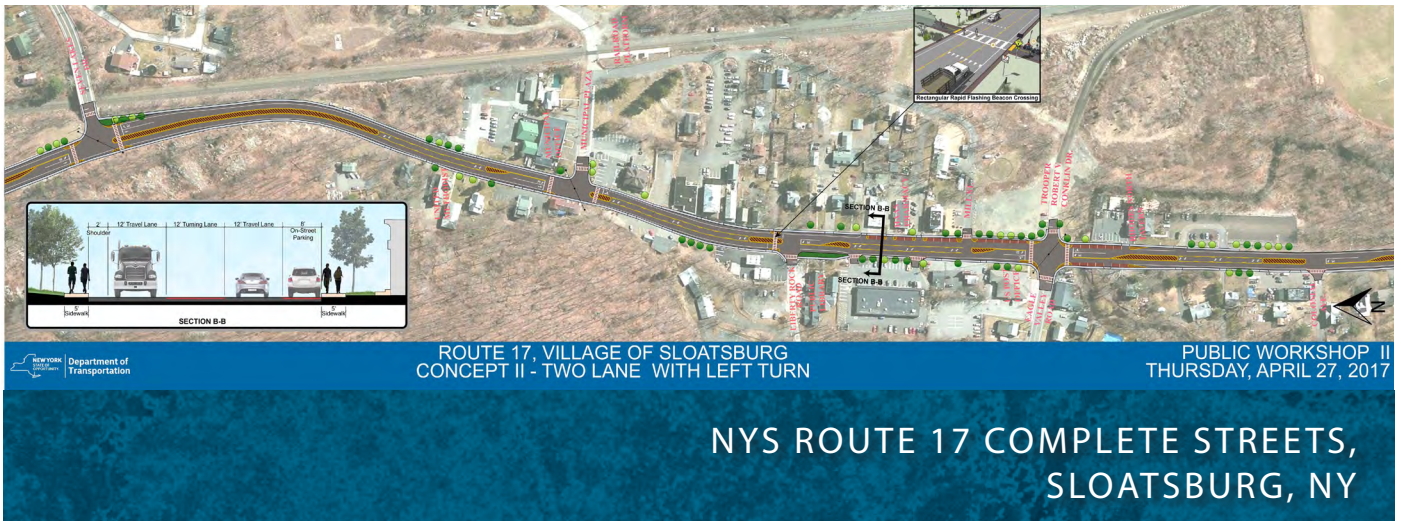
AKRF is conducting an assessment of current issues affecting the transportation and stormwater infrastructure systems and proposing measures to manage conditions including evaluation of traffic congestion, parking and pedestrian facilities as well as preliminary water and sanitary sewer capacity. In addition, AKRF is currently guiding the Town through an evaluation of pedestrian safety improvements and an Adaptive Traffic Control System along East Hartsdale Avenue from the train station to the four corners intersection to improve traffic operations and safety conditions.

### REFERENCE

#### Garrett Duquesne

Commissioner - Community Development and Conservation  
Town of Greenburgh  
P.O. Box 205  
Elmsford, New York 10523  
(914) 989-1532  
gduquesne@greenburghny.com





ROUTE 17, VILLAGE OF SLOATSBURG  
CONCEPT II - TWO LANE WITH LEFT TURN

PUBLIC WORKSHOP II  
THURSDAY, APRIL 27, 2017

## NYS ROUTE 17 COMPLETE STREETS, SLOATSBURG, NY

**A**KRF was retained by the New York State Department of Transportation (NYSDOT) to provide traffic modeling services associated with the Complete Streets design proposed along a 0.5-mile segment of Route 17 in Sloatsburg. The Complete Streets design seeks to reduce the two travel lanes in either direction to one travel lane with turning pockets and improved pedestrian and bicycle connectivity and safety along the corridor. In order to improve traffic operating conditions with reduced roadway capacity, NYSDOT seeks to employ an Adaptive Traffic Control System (ATCS) for the corridor.

AKRF refined the existing Synchro/SimTraffic model for the corridor and established an optimized version of the corridor without ATCS to compare to the operations with the proposed ATCS. AKRF, working with Trafficware, provided a microsimulation model using virtual traffic controllers to simulate the corridors operations with ATCS. In addition, AKRF worked closely with NYSDOT to incorporate the design alternatives and capacity analysis findings into the Design Approval Documents (DAD).

### REFERENCE

**Sandra Jobson, RA, RLA, AICP**  
Regional Planning and Program  
Manager  
New York State Department of  
Transportation, Hudson Valley  
4 Burnett Boulevard  
Poughkeepsie, NY 12603  
845-431-5723  
Sandra.jobson@dot.ny.gov

## **1212 & 1214 Main Street and 271-273 & 150 Windsor Street: Utility Investigation Hartford, Connecticut**

Freeman Companies, LLC provided Civil Engineering services for the “due diligence” investigation of existing utilities to service the minor league baseball stadium development site, for the City of Hartford’s Department of Development Services. Work involved site observations, and research from land records, previous surveys, GIS mapping and assessors mapping. A utility investigation for existing telephone (AT&T), water and storm/sewer (MDC), electric (NU) and gas (CNG) utilities was conducted and a “Class D” Compilation Plan prepared. Additionally, the floodplain was identified within Flood Zone “X”. The final report included mapping for location, utility, sanitary sewer, water distribution system and FEMA. Land Surveying: Freeman Companies, LLC provided Land Surveying services for the proposed baseball stadium development site, for the City of Hartford’s Department of Development Services. Parcel surveys, including boundary survey research, boundary survey, topographic survey and roadway survey, including topographic survey, are being prepared for each of the parcels in downtown Hartford.



## **Downtown Traffic Signal Improvements: Land Surveying and Basemapping of 28 Intersections Hartford, Connecticut**

Freeman Companies has provided land surveying and basemapping support to both the City and Prime Engineer for a major Traffic Signal Improvement Program within the City of Hartford’s downtown area. The project entails land surveying and base mapping of 28 intersections, of which five (5) of the intersections involved State highway ramps, necessitating permitting and maintenance/protection of traffic coordination with CTDOT District 1. For each intersection, Freeman Companies provided topo within 50’ of the intersection and located curbing and pavement markings for an additional 150’ for each approach. The V-2 features located have included but are not limited to: ramps, sidewalks, curb lines, pavement, survey monuments, signs, pavement markings, street lighting, fence lines, utility poles, traffic signal equipment, and above ground utility structures. The field survey also included the plotting of visible evidence of underground utilities. Utility lines not observed in the field have been shown on the survey plans from available record plans from the appropriate utility agency. Utility information depicted on the topographic survey included: Approximate location and size of water and gas mains, steam lines, and other utilities including, but not limited to, buried tanks, vaults, etc.; Location of fire hydrants and fire department connections to buildings within the site; Approximate location of power, telephone, cable utilities, traffic signal systems, street lighting, parking area and athletic areas lighting, above and below the ground. Freeman Companies also conducted research and performed office calculations in order to plot the existing right of way boundaries at all intersections. Evidence of highway lines (monuments, pipes, fences, walls, etc.) were field measured, analyzed, and compiled with record data and depicted on the Right of Way Survey.

## **Metropolitan District Commission in collaboration with Paganelli Construction: Multiple Streets Greater Hartford, Connecticut**

Freeman Companies provided Land Surveying services for storm drainage and roadway improvements on multiple construction and road projects for the Metropolitan District Commission within Connecticut, including Greenhurst Road, Bonny View Road, Smallwood Road, Westbrook Road, and Webster Hill Boulevard. Freeman Companies established benchmarks and horizontal control points within project limits providing construction staking for the storm drainage and roadway remodeling processes for each roadway.

**STATEMENT OF ORGANIZATION,  
ORGANIZATION CHART, AND RESUMES**

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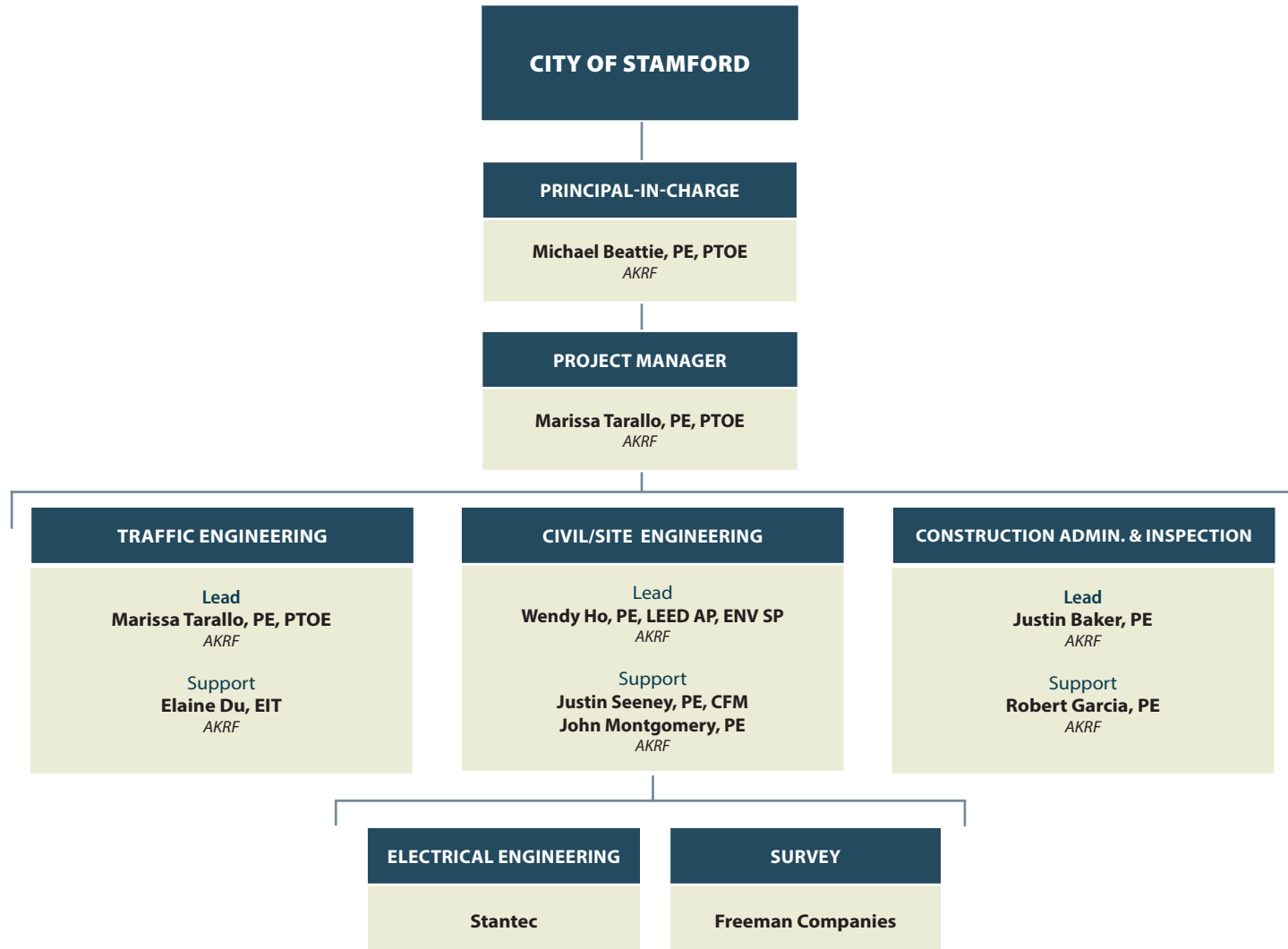


## STATEMENT OF ORGANIZATION

**A**KRF will serve as the Prime Consultant supported by Freeman Companies, LLC, a certified Disadvantaged Business Enterprise (DBE), Minority Business Enterprise (MBE), and Small Business Enterprise (SBE), for surveying services and Stantec Consulting Services, Inc. for electrical engineering services.

Marissa Tarallo, PE, PTOE, will serve as the Project Manager ensuring all information, directives, and deliverables are funneled through one location and disseminated appropriately. With a strong background in traffic engineering she will ensure the project goals are being met from concept to construction. Ms. Tarallo will be supported by our in-house multidisciplinary team, each with a technical lead as a point of contact. Having worked together for many years, the team we have carefully assembled complements and strengthens our capacity to successfully complete the services and deliverables identified in the Project Approach.

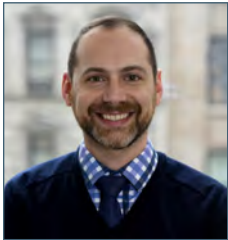
Ms. Tarallo, along with Michael Beattie, PE, PTOE serving as Principal-in-Charge, will oversee QA/QC of all deliverables from the AKRF team. Our QA/QC process emphasizes client satisfaction, management commitment, leadership, continuous communication, and decisions based on sound evaluation. We will ensure that design documents conform to and comply with applicable regulations; that the work produced satisfies project goals and objectives; and that the quality of the final design is consistent with our own high standards of excellence and exceed the City's expectations.





# MICHAEL A. BEATTIE, PE, PTOE

PRINCIPAL IN CHARGE



**M**ichael Beattie, PE, PTOE is a Vice President of the firm and manages AKRF's Traffic and Transportation Group. He has 17 years of experience in the field of traffic engineering and transportation planning and is a certified Professional Engineer (P.E.) and a Professional Traffic Operations Engineer (PTOE). Michael has served in a lead role on a wide range of public and private sector transportation studies, managed teams of professionals and subconsultants

on complex projects and participated in public presentations and informational forums. He is well versed in the use of Highway Capacity Software, Synchro/SimTraffic, VISSIM, and other traffic analysis software and specializes in circulation, microsimulation, traffic calming and complete streets studies. He is highly valued by the firm and his clients for his grasp of complex issues, ability to develop a variety of innovative and alternative solutions and present highly technical material to a non-technical audience for municipalities, agencies or in support of public outreach efforts.

## RELEVANT EXPERIENCE

### CITY OF NEW ROCHELLE TRAFFIC ENGINEERING SERVICES, NEW ROCHELLE, NY

Since 2015, AKRF has been retained to provide traffic and transportation services to address the City's development plans and Complete Streets Policy. In that time AKRF has analyzed over 75 intersections for operations and improvements as well as 15 corridors for complete street, traffic calming and multimodal improvements. Mr. Beattie, serving as Principal in Charge, has assisted the City in achieving their vision for a sustainable city. This includes developing innovative Complete Street design concepts and carrying them through construction bid documents, identifying parking solutions to address increase demand in a rapidly growing city, securing funding through grant writing, and presenting to a multitude of stakeholders, including leading public participation events and presenting to the City Council, to gain consensus and approval on proposed projects.

### PORT CHESTER ON-CALL TRAFFIC ENGINEERING SERVICES, VILLAGE OF PORT CHESTER, NY

The Village of Port Chester retained AKRF for on-call traffic and transportation engineering services. Services include reviewing site plan applications, conducting intersection analyses to develop intersection improvements, parking and loading zone studies, and complete street and traffic calming studies. Mr. Beattie is the Project Manager responsible for project scope, schedule, budget and documentation for all on-call service requests, overseeing traffic and transportation analyses, and presenting results to the public during monthly Planning Commission meetings.

### HARTSDALE FOUR CORNERS ENGINEERING/PLANNING CONSULTANT SERVICES, TOWN OF GREENBURGH, NY

AKRF is providing engineering and transportation planning services to the Town of Greenburgh to provide initial insight into the redevelopment capacity of the Four Corners area surrounding the intersection of Central Park Avenue and East & West Hartsdale Avenues.

## BACKGROUND

### Education

MS, University of California, Berkeley, Transportation Engineering, 2003  
BS, Rensselaer Polytechnic Institute, Civil Engineering, 2002

### Licenses/Certifications

Professional Engineer, CT - PEN.0033522  
Professional Engineer, NY - 089901  
Professional Engineer, DE - 23057  
Professional Engineer, CA - 71077  
Professional Transportation Operations Engineer, Institute of Transportation Engineers

### Professional Memberships

Member, Institute of Transportation Engineers  
Member, American Society of Civil Engineers

### Years of Experience

17 years in the industry  
9 years with AKRF

AKRF is conducting an assessment of current issues affecting the transportation and stormwater infrastructure systems and proposing measures to manage conditions including evaluation of traffic congestion, parking and pedestrian facilities as well as preliminary water and sanitary sewer capacity. In addition, AKRF is currently guiding the Town through an evaluation of pedestrian safety improvements and an Adaptive Traffic Control System along East Hartsdale Avenue from the train station to the four corners intersection to improve traffic operations and safety conditions. Mr. Beattie serves as Principal in Charge.

### **NYCDOT ENGINEERING SERVICE AGREEMENT FOR ENGINEERING, DESIGN, AND INSPECTION SERVICES, NEW YORK, NY**

As part of a three year on-call contract, AKRF is the Prime consultant leading a team of engineers to deliver one of the four Great Streets corridors in New York City, Grand Concourse in the Bronx. A flagship of the Vision Zero program to transform high-crash arterial roads, the Great Streets initiative redesigns major corridors to prevent crashes, enhance mobility, increase accessibility, and bolster neighborhood vitality. Mr. Beattie, serving as the traffic technical lead, assisted the City in developing improvements for the Grand Concourse and Delancey Street corridors. Recommended improvements included sidewalk extensions, ADA compliant pedestrian ramps, new connections to the existing bicycle network, widening of existing medians and introducing new median segments to eliminate unsafe vehicle movements. In addition, Mr. Beattie led the traffic operational analysis to assure traffic flow for the high volume roadways would continue to be accommodated with the proposed improvements.

### **ADELAAR RESORT (FORMERLY KNOWN AS CONCORD RESORT), THOMPSON, NY**

As part of a multi-disciplinary team, AKRF is providing planning, permits/entitlements, environmental analyses and civil engineering services for a 1,500 acre Master Planned resort community. The proposed project will transform a historically significant site in the Catskills into a world class resort property. AKRF is preparing an Environmental Impact Statement (EIS) to assess possible impacts from the proposed Adelaar development. Mr. Beattie led the technical analysis which involved preparing a detailed traffic volume network for existing and future conditions with and without the project, developing trip generation estimates for the proposed project, and performing capacity analysis. Mr. Beattie is utilized Synchro and SimTraffic software to determine significant adverse traffic impacts. In addition, Mr. Beattie

utilized the VISSIM software to develop conceptual mitigation plans to improve interchange and roadway operating conditions.

### **PUTNAM COUNTY COMMERCIAL CORRIDORS FEASIBILITY STUDY, PUTNAM COUNTY, NY**

AKRF was retained by Putnam County to prepare a Commercial Corridors Feasibility Study with a Recommended Plan of Action including a market study and an evaluation of various commercial revitalization strategies, as well as a needs assessment of roadways and transportation conditions for nine commercial corridors throughout the County. AKRF is preparing the needs assessment of roadways and transportation elements for the nine commercial corridors in the county. Mr. Beattie was responsible for overseeing the development of short, mid, and long term recommendations, documentation, and presenting results.

### **MERRITT BOULEVARD TRAFFIC CALMING AND SAFETY IMPROVEMENTS, FISHKILL, NY**

AKRF was retained to address concerns raised by the Merritt Park community regarding speeding along Merritt Boulevard, difficulty crossing Merritt Boulevard and other safety concerns/issues of the residents of Merritt Boulevard Fishkill NY. AKRF developed to improve pedestrian crossings, enhance pedestrian safety, and calm traffic along Merritt Boulevard. Recommendations included the assessment and preliminary design of a roundabout, improved intersection geometries to enhance pedestrian crossings and slow down traffic. Mr. Beattie was responsible for project scope, schedule, budget and documentation, overseeing the traffic analysis, and presenting results.

### **NEW NY BRIDGE, NYACK, NY**

AKRF was retained to develop bicycle and pedestrian visitation estimates for the Shared-Use Path proposed on the New NY Bridge. Visitation estimation was based on field surveys, population trends, and modal split studies. Mr. Beattie was responsible for the development of and overseeing surveys of similar facilities and the development of pedestrian, bicycle, and parking demand associated with the shared-use path. In addition, Mr. Beattie provided an assessment of different interchange configurations to accommodate the increase in pedestrian and bicycle demand.





# MARISSA A. TARALLO, PE, PTOE

PROJECT MANAGER - TRAFFIC LEAD



**M**arissa Tarallo, PE, PTOE is a Senior Technical Director and is a certified Professional Engineer (PE) and Professional Traffic Operations Engineer (PTOE). She has served as project manager for a variety of multidisciplinary development projects for both public agencies and private developers. She is highly skilled in innovative roadway design, site access and circulation planning, and the preparation of traffic studies including traffic data collection, capacity analyses, and recommending mitigation measures to improve circulation and safety. Ms. Tarallo has developed numerous microsimulation models for a variety of projects including traffic signal phasing improvements and optimization as well as Adaptive Traffic Control Systems and is skilled in the use of Highway Capacity Software, Synchro/SimTraffic, VISSIM and AutoCAD and specializes in corridor, microsimulation, traffic calming and complete streets studies.

## RELEVANT EXPERIENCE

### CITY OF NEW ROCHELLE, CITYWIDE COMPLETE STREETS STUDY, NEW ROCHELLE, NY

AKRF was retained to complete a citywide study to determine where changes to streets and roadways are desirable and to provide design documents to improved street design to encourage walking, cycling and safety. Ms. Tarallo was the technical advisor responsible for developing the complete streets recommendations for several key corridors in the City including Quaker Ridge Road and Webster Avenue. She led the field reconnaissance, developed multimodal roadway improvements, and complimentary safety improvements such as improved intersection geometry, signal phasing, and ADA compliant pedestrian facilities and oversaw the development of the conceptual design documents and technical memorandums.

### U.S. ROUTE 6 TRAFFIC SIGNAL IMPROVEMENTS, TOWN OF CORTLANDT, NY

Following the completion of the Cortlandt Crossing environmental review prepared by AKRF for the 36-acre Cortlandt Crossing retail development located on U.S. Route 6, AKRF provided design, permitting and construction inspection services for the roadway and traffic signal improvements identified by AKRF necessary to provide for sufficient traffic flow. The retail facility required two new traffic signals along the Route 6 corridor in coordination with roadway widening and geometric improvements. In addition, the project included the design and installation of fire preemption devices and an adaptive signal control system for seven traffic signals along approximately 1.6 miles of U.S. Route 6. Ms. Tarallo, serving as project manager, served as the point of contact for NYSDOT regarding traffic and site/civil design and permitting. Ms. Tarallo reviewed and coordinated the site plan and pavement marking plans for consistency with the conceptual improvements, developed preliminary and final design documents for construction of the proposed traffic signals and preemption devices and provided permitting coordination, bid support, and support to the contractors and construction inspector throughout construction. In addition, Ms. Tarallo guided key stakeholders through the selection, design and implementation process for an adaptive system which maintained the use of NYSDOT's central management software and provided unique solutions to detection, communication, and pedestrian management constraints.

## BACKGROUND

### Education

BS, Smith College of Engineering and Computer Science, Syracuse University, Civil Engineering, 2011

### Licenses/Certifications

Professional Engineer, CT - PEN.0034264  
Professional Engineer, NY - 96451  
Professional Transportation Operations Engineer, Institute of Transportation Engineers

### Professional Memberships

Member, Institute of Transportation Engineers CT & NY  
Member, Intelligent Transportation Society CT & NY  
Member, American Society of Civil Engineers

### Years of Experience

9 years in the industry  
9 years with AKRF

### **TRAVIS AVENUE ROADWAY IMPROVEMENTS, STATEN ISLAND, NY**

As part of AKRF's on-call environmental and engineering term contract with the NYCDDC, AKRF conducted a traffic study to evaluate alternatives for the Travis Avenue corridor in Staten Island to reduce traffic congestion and improve safety along the corridor. AKRF is currently preparing the design drawings and specifications for the selected roadway design. Ms. Tarallo, serving as traffic technical lead, led the preparation of the traffic report and developed a microsimulation model to evaluate alternatives for the corridor including a roundabout, street direction changes, traffic signals, and opening the median on the adjacent Richmond Avenue to improve traffic flow and ease congestion. In addition, to improve pedestrian safety and accessibility where a multi-use greenway had recently been constructed, new crosswalks, sidewalks, pedestrian signals and curb extensions were included in the analysis and design.

### **HARTSDALE FOUR CORNERS ENGINEERING/ PLANNING CONSULTANT SERVICES, TOWN OF GREENBURGH, NY**

AKRF is providing engineering and transportation planning services to the Town of Greenburgh to provide initial insight into the redevelopment capacity of the Four Corners area surrounding the intersection of Central Park Avenue and East & West Hartsdale Avenues. AKRF is conducting an assessment of current issues affecting the transportation and stormwater infrastructure systems and proposing measures to manage conditions including evaluation of traffic congestion, parking and pedestrian facilities as well as preliminary water and sanitary sewer capacity. Ms. Tarallo, serving as technical advisor, is currently guiding the Town through an evaluation of pedestrian safety improvements and an Adaptive Traffic Control System along East Hartsdale Avenue from the train station to the four corners intersection to improve both traffic operations and safety conditions.

### **TOWN OF CLARKSTOWN, TRAFFIC CONSULTANT, CLARKSTOWN, NY**

As the Town Traffic Consultant, AKRF's responsibilities include reviewing site plans and environmental assessments from a traffic standpoint to ensure that capacity analyses, parking, site access and egress, and internal site circulation issues are adequately and correctly addressed in reports that are submitted to the Town. In addition, AKRF has provided transportation planning and

engineering services on a variety of Town initiatives including rezoning and complete street applications. Ms. Tarallo, serving as project manager, has led the review of a wide variety of Traffic Impact Studies, ranging from due diligence studies to large-scale EIS reviews involving vehicular, pedestrian, bicycle and safety concerns. In addition, Ms. Tarallo has led several standalone projects including complete street design, transit oriented development (TOD), parking and warrant studies. Her responsibilities include managing the scope, budget, and documentation for each individual project and close coordination with the Town. Ms. Tarallo has also frequently presented findings to the Town Planning Board.

### **VILLAGE OF MAMARONECK TRANSPORTATION ENGINEERING CONSULTANT, MAMARONECK, NY**

AKRF is contracted by the Village of Mamaroneck to provide on-call transportation planning and engineering services to the Village. AKRF's role is to field requests from the Mayor, Village Manager's Office, Engineer, Planner, and Traffic Board to conduct safety, traffic calming, school safety, and Complete Street studies in support of the Village's Safe Street initiative and Vision Zero policy, and review private applicant traffic and parking studies and provide testimony to Village Trustee, Planning and Zoning Board of Appeals as needed. Ms. Tarallo serves as the deputy project manager and technical lead on a variety of roadway improvement projects including traffic calming, complete streets, and traffic signal design.

### **ROUTE 17 COMPLETE STREETS, SLOATSBURG, NY**

AKRF was retained by the New York State Department of Transportation, Hudson Valley (NYSDOT) to provide traffic modeling services associated with the complete streets design proposed along a 0.5-mile segment of Route 17 in Sloatsburg. In order to improve traffic operating conditions with reduced roadway capacity, NYSDOT seeks to employ an Adaptive Traffic Control System (ATCS) for the corridor. Ms. Tarallo, serving as project manager, coordinated the calibration of the existing Synchro/SimTraffic model of the corridor and developing an optimized signal timing plan to be compared with ATCS to determine the benefits of an Adaptive Signal System for the corridor. She also coordinated with Trafficware to use their virtual traffic controller platform to develop a microsimulation model of the ATCS. In addition, Ms. Tarallo worked closely with NYSDOT to incorporate the design alternatives and capacity analysis findings into the Design Approval Documents (DAD).



# WENDY HO, PE, LEED AP, ENV SP

LEAD - SITE/CIVIL ENGINEERING



**W**endy Ho, P.E., LEED® AP, is a Senior Vice President and licensed Professional Engineer and a LEED® Accredited Professional with 23 years of experience in the design and management of large-scale infrastructure and highway projects, as well as site development projects. Ms. Ho oversees all of AKRF’s roadway and infrastructure projects. She serves as the Principal-in-Charge on multiple on-call contracts for the New York City Department of Design and Construction (NYCDDC) and the New York City Department of Transportation (NYCDOT), and has completed and managed numerous high-profile projects for the New York City Vision Zero initiative. Her area of expertise in design includes roadway geometric design, pavement design, grading and drainage design, maintenance and protection of traffic, street lighting design, and utility relocations. Ms. Ho’s experience has allowed her to develop a keen eye for identifying critical paths and issues early in a project, minimizing surprises and headaches for clients as timelines progress. She is known for her proactivity, anticipating what permits and approvals are needed, and moving various components of a project schedule forward at one time to meet aggressive deadlines and tight schedules.

## RELEVANT EXPERIENCE

### NYCDOT ENGINEERING SERVICES AGREEMENT FOR ENGINEERING, DESIGN, AND CONSTRUCTION INSPECTION SERVICES CITYWIDE

Ms. Ho serves as Principal in Charge for the 3-year on-call engineering services agreement to provide comprehensive design and inspection services for many of NYC’s high-crash arterials roadways. She is responsible for the development, implementation, and monitoring of the task orders as well as managing coordination among all the agency and utility stakeholders. Ms. Ho is responsible for the overall success of the contract.

**Grand Concourse Phase IV Reconstruction, the Bronx, NY** - AKRF provided Preliminary and Final Design services for 6,500 LF of roadway reconstruction on Grand Concourse in The Bronx from East 175th Street to East Fordham Road, comprising the fourth phase of improvements along the thoroughfare as part of DOT’s Vision Zero Great Streets Initiative. The goals of the project are to improve safety for pedestrians and cyclists, rationalize traffic flow, and improve live ability for residents. As part of the Preliminary Design, AKRF prepared a traffic analysis report to recommend potential improvements to be implemented in the Schematic Geometric Design, such as signal warrants and removal of service road access points. Since the project crosses three bridges, AKRF also coordinated with NYCDOT Bridges to receive approvals for adjacent work. Since the project was partially federally funded, AKRF coordinated with NYCDOT and NYCDDC to prepare the DAD and the final PS&E for submission to NYSDOT.

**4th Avenue Safety Improvements, Brooklyn, NY** - AKRF is implementing Vision Zero Infrastructure to remake the 4th Avenue corridor from 8th Street to 64th Street as a Great Street for the City of New York. This is a federally funded project to improve pedestrian, cyclist and vehicular safety. Improvements include a wider raised median for pedestrian refuge with landscaping, curb neckdowns and enhancing pavement markings and street lighting which aim to calm traffic and provide a safer roadway for pedestrians and vehicles. The project required extensive coordination with NYCT as 4th Avenue runs above the R and N subway lines.

## BACKGROUND

### Education

B.S. in Civil Engineering with Honors, Rutgers University, NJ, 1996

### Licenses & Certifications

Professional Engineer CT - Pending  
Professional Engineer NY - #079943  
LEED® Accredited Professional

### Professional Memberships

Member, American Society of Civil Engineers (ASCE)

### Years of Experience

23 years in the industry  
12 years with AKRF

**Delancey Street Safety Improvements** – The Delancey Street corridor is among the top 10 percent of High Crash Corridors in NYC, with the highest rates of pedestrians killed or severely injured in the borough in the last five years. AKRF is currently providing engineering design services to implement pedestrian safety, a new bike path and streetscape improvements on Delancey Street between Clinton Street and Bowery in lower Manhattan. Recommended improvements include sidewalk extensions, pedestrian and bicycle Wayfinding signage, pedestrian ramps, new crosswalks, and new bike lanes.

### **NYS ROUTE 17 EXIT 106 INTERCHANGE - ROADWAY IMPROVEMENTS, ADELAAR RESORT DEVELOPMENT, THOMPSONVILLE, NY**

For the Adelaar development, AKRF has provided design and construction support services to increase the capacity of NYS Route 17 Exit 106 interchange. AKRF designed a roundabout at the interchange and modified that adjacent entrance and exit ramps, adjacent county and town roads, as well as design of a new town road to increase capacity to support future demands. The improvements include widening the existing off ramp, modifying horizontal and vertical alignments of the adjacent county and town roads, traffic signal design, and traffic safety improvement such as guide rails, striping and signage design. In addition, AKRF developed construction staging and phasing plans, as well as associated work zone traffic control plans and detour plan for each construction stages. All roadways and intersection designs are based on NYSDOT Highway Design Manual, AASHTO Geometric Design of Highways and Streets, National MUTCD and AASHTO Roadside Design Manual. The overall design of the interchange was reviewed and approved by the Sullivan County Division of Public Works and NYSDOT. Ms. Ho was the Task Leader overseeing the roadway design.

### **RESORT ENTRY ROAD, ADELAAR RESORT DEVELOPMENT, THOMPSONVILLE, NY**

AKRF was responsible for the roadway design and construction support to provide access between the future Adelaar Resort and New York State Route 17. This resort entry road is a new four lane divided parkway that is over two miles long and pass through streams, wetlands, and complex terrain. The roadway design components include horizontal and vertical geometric design, embankment study, guide rail systems, roadway striping and signage, pavement design, utility relocations, retaining wall, and traffic signals. In addition, AKRF designed a bridge to cross over

existing wetlands. The new roadway design criteria is based on NYSDOT Highway Design Manual, AASHTO Geometric Design of Highways and Streets, and Roadside Design Manual and satisfied reviews and comments from Town Engineer of Thompson. Ms. Ho was the Task Leader overseeing the roadway design.

### **DDC ON-CALL ENVIRONMENTAL AND ENGINEERING TERM CONTRACT (HWEAR01), VARIOUS LOCATIONS, NY**

**Amboy Road and Arden Avenue Intersection Improvements, Staten Island, NY** - Under the DDC On-Call contract, AKRF was retained to prepare schematic roadway improvement plans for roadway improvements at the intersection of Amboy Road and Arden Avenue in Staten Island. The planned street improvement project includes sufficient roadway widening and realignment along Amboy Road to allow for exclusive turn lanes to minimize delay, improve the horizontal alignment along the roadway, and improve overall operations throughout the neighborhood. The project also includes improvements along Seidman Avenue within the project limits to open the street to through traffic.

AKRF conducted roadway capacity and accident analyses at the 12 study area intersections to identify necessary improvements for roadway operations and safety. AKRF presented these results and improvements in a PDI, which documented project limits; existing condition findings, including survey, geotechnical issues and soil borings; utilities; agency regulations; design goals and limitations; and schematic design recommendations. The schematic design outlined geometric, striping, pavement, sidewalk, curb, lighting, traffic signal, signage, utility improvements and relocations, and grading changes. Throughout the development of the schematic design, Ms. Ho served as Principal in Charge and coordinated extensively with the relevant agencies and utility providers to ensure that all the design criteria and regulations were met, and that all necessary utility relocations were planned accordingly.



# JUSTIN BAKER, PE

LEAD - CONSTRUCTION ADMINISTRATION & INSPECTION



Justin Baker is a Senior Technical Director with 28 years of professional Civil/Environmental, Roadway, Facility Construction and Engineering experience and is a certified Professional Engineer (P.E.). Mr. Baker has extensive experience working with commercial, industrial, municipal, government, and health care/education facilities as well as residential clients and owners all of which demand a close attention to detail, schedule and client acceptance. He has a strong working knowledge regarding site civil and earthworks projects involving site utilities, bridges, roadways, traffic signals, building foundations, superstructure, site coordination along with experience in handling complex projects with multiple contractors and stakeholders with a focus on tight project coordination and on time client delivery.

## RELEVANT EXPERIENCE

### U.S. ROUTE 6 TRAFFIC SIGNAL IMPROVEMENTS, TOWN OF CORTLANDT, NY

AKRF is providing design and permitting services for traffic signal improvements needed for the construction of the 36-acre Cortlandt Crossing retail development. The retail facility required two new traffic signals along the Route 6 corridor in coordination with the roadway improvements necessary to provide for sufficient traffic flow. In addition, the project included the design and installation of fire preemption devices and an adaptive signal control system for seven traffic signals along approximately 1.6 miles of U.S. Route 6. Mr. Baker is serving as the consultant Resident Engineer responsible for construction management and inspection of all work to be performed in the NYSDOT ROW on US Route 6. In addition, to the traffic signal work this also includes oversight of road improvements in order to install turn lanes at key intersections as well as various stormwater improvements along the corridor.

### ADELAAR RESORT, SULLIVAN COUNTY, THOMPSON, NY

AKRF is responsible for site civil, utilities, roadways, pump stations, electrical distribution system and earthwork for this major \$1 Billion resort project developed over numerous phases and several years. Mr. Baker was the Engineer-In-Charge/Resident Engineer for NYS DOT HWP 20150951054 for the SR 17 Ramp Widening & Signalization Project and HWP 20150951603 for the Route 17 Water Main Direction Drill Crossing. He is responsible for Resident Engineering Services to satisfy NYSDOT and Sullivan County DPW construction requirements relating to the roadway construction and traffic signals within the NYS DOT and Town of Thompson jurisdictions. As the Engineer-In-Charge, he managed the field office staff and review of all project records to ensure that the construction complies with NYSDOT standards and specifications. When completed, the Adelaar Resort project will redevelop the historic Adelaar Resort into a variety of amenities, uses, and experiences which include a Resort Core with both resort and casino hotel facilities, conference facilities, entertainment village, a family resort area, a waterpark, and a residential village encompassing a total area of over 1,500 acres.

### NATIONAL GRID BROOKLYN QUEENS INTERCONNECT, BROOKLYN AND QUEENS, NY

On behalf of National Grid, AKRF project manager for the installation of a new gas pipeline in the Rockaways and Brooklyn. This project reinforces the existing natural gas transmission and distribution systems and provides for projected increases in energy demand in

## BACKGROUND

### Education

MS, Civil and Environmental Engineering, Villanova University, 1990  
BS, Civil Engineering, Villanova University, 1987  
Captain - US Air Force- Saint Joseph's University AFROTC, 1987

### Licenses & Certifications

Professional Engineer, NY #079597  
Professional Engineer, PA #PE041171E  
NYCDDC Water Main Inspection Certification  
Certified Professional Stormwater Quality (CPSWQ)

### Years of Experience

30 years in the industry  
7 years with AKRF

## JUSTIN BAKER, PE

both Brooklyn and Queens. Two parallel (12- and 26-inch) natural gas mains installed between Beach 169th Street on the Rockaway Peninsula to Avenue U in Brooklyn. The project environmental review included land use, open space, cultural resources, hazardous materials, coastal zone consistency, construction, and natural resources. Mr. Baker coordinated with agencies to secure construction permits, discharge permits, Erosion & Sediment Control Plans/Stormwater Pollution Prevention Plan (SWPPP), and related oversight during construction.

### **WILDWOOD SUBSTATION EXPANSION, BROOKHAVEN, NY**

Project Manager for the facility expansion of the existing Wildwood Substation. The work included construction of a new Substation and a Dynamic Reactive Support System (DRSS) Facility. The project involved significant site preparation, site utility installation, foundations, superstructure, electrical switchgear equipment installation and commissioning. Additionally, AKRF managed the Site, Grading and Drainage, Erosion and Sediment Control as well as the SWPPP. Mr. Baker served as the lead engineer on the SWPPP and is responsible for the review of the weekly SWPPP inspection reports.

### **HOLTSVILLE SUBSTATION, HOLTSVILLE, NY**

As part of the National Grid on-call contract, AKRF was selected to serve as the project manager to facilitate the construction of the Holtsville Substation. The proposed work includes construction of a new Substation and a DRSS Facility. As part of the site/civil work, AKRF managed the project closely regarding the Site Plans, Grading and Drainage Plans, Erosion and Sediment Control Plans and the SWPPP.

### **INDUSTRIAL FACILITY CONSTRUCTION MANAGER – MANHASSET, NY**

Project Manager and In-house manager for heavy industrial corporation with facilities in Atlanta, Baltimore, Chicago, Charlotte, Detroit, Erie, Houston, Los Angeles, Philadelphia, and Pittsburgh. Mr. Baker functioned as Owner's Representative for all aspects of site development including site selection, due diligence, permitting, and construction. Mr. Baker conducted project management and contract administration for the installation of new utilities, pavement, and storm drainage systems; rail sidings and rail/truck weigh scales; metal crushers/shredders; fuel and solvent storage tanks; air filtration stations and radiation detection equipment; and groundwater remediation project. Mr. Baker also implemented corporate compliance and training programs to

satisfy stormwater pollution prevention, and managed numerous construction contracts of a 5 year duration.

### **NYCEDC, HUDSON SQUARE STREETScape, NEW YORK, NY**

AKRF designed enhanced pedestrian space and new amenities along Hudson Street to improve pedestrian, bicycle, and vehicular safety as part of the \$27 million "Hudson Square is Now" streetscape improvement plan, a major public-private, design-build investment between Canal Street and West Houston in Manhattan. The project scope includes over 8,000 square feet of planting areas using continuous tree pits and permeable pavers to maximize stormwater capture and support healthier trees; new benches providing the capacity for over 150 seats; 2,255 square feet of allowable space for future sidewalk cafes; sidewalk realignments and new pedestrian ramps; a dedicated, parking-protected bike lane on Hudson Street from Houston to Canal Street; and over 40 additional bicycle racks. Mr. Baker serves as a Resident Engineer on behalf of the City Agency governing the work. His main responsibilities include managing all aspects of the construction oversight process including the assembly of project files, submittals reviews, cost controls/payment applications review, safety reviews, change orders, RFI responses, As-Builts review, QA/QC monitoring, and conducting progress meetings.

### **FACILITY AND RETAIL PROJECT MANAGER – RONKONKOMA, NY**

Project Manager for several commercial clients consisting of Lowe's Home Centers, Storage Deluxe Self Storage, and Public Storage facilities. Services provided included site work; comprehensive due diligence assessments; cost estimates(non-building); site preparation and construction; represented various owners a public hearings and presentations to municipalities and civic groups as necessary; and coordination of sub consultant services (traffic, land surveys, environmental, geotechnical). Mr. Baker worked on over 40 development locations on Long Island and the Bronx, Brooklyn, and Queens.

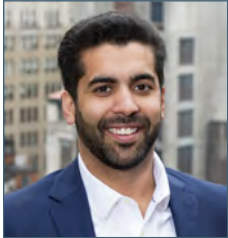
### **PROJECT SUPERINTENDENT – WHITESTONE, NY**

Project Superintendent for the construction of a waterfront residence on a 6 acre property in Plandome, NY. Mr. Baker's responsibilities included management and oversight of exterior and interior trades; resolution of construction/building problems and conflicts; monitoring of compliance with tidal wetland permits; building inspector coordination; ordering of construction materials; and review of invoices for payment purposes. He was responsible for the holding of numerous construction contracts with direct responsibility for Profit/Loss.



# JUSTIN H. SEENEY, PE, CFM

SITE/CIVIL SUPPORT



**J**ustin Seene, PE is a Senior Technical Director with AKRF. Mr. Seene has project experience on a variety of projects with an emphasis on site/civil engineering, hydraulic and hydrologic analysis, stormwater analysis and design, green infrastructure implementation, and erosion and sediment control design. He has experience in project planning, engineering design, hydrologic & hydraulic modeling, field work, preparation of construction plans and stormwater

pollution prevention plans, permitting, technical specifications, construction contract bid documents, and construction administration. Prior to joining AKRF, Mr. Seene worked at a firm in Gerenwich, CT, where he worked on a variety of site/civil projects in Connecticut. Mr. Seene is skilled in using AutoCAD Civil 3D, AutoCAD Map 3D, HydroCAD, StormCAD, Hydraflow Hydrographs, MathCAD, and Microsoft Office.

## RELEVANT EXPERIENCE

### NEW ROCHELLE ON-CALL ENGINEERING, NEW ROCHELLE, NY

AKRF was retained by the City of New Rochelle for on-call engineering services. As part of the first task order under the on-call engineering contract, AKRF was responsible for preparation of design documents for a new pedestrian improvements on North Avenue, near the New Rochelle Metro-North Station. Mr Seene was the Project Manager for preparation of construction bid documents and worked closely with the City of New Rochelle to issue bid documents and drawings in accordance with City standards and requirements.

### PORT CHESTER ON-CALL ENGINEERING, PORT CHESTER, NY

AKRF was retained by the Village for on-call engineering services. Tasks will include civil engineering design for roadway improvements, sidewalks, and other pedestrian infrastructure; preparing specifications, schedules, and cost estimates; and traffic and pedestrian studies associated with the proposed improvements. Mr. Seene serves as Project Manager for all site/civil engineering projects through the on-call engineering contract.

### SANITARY SEWER AND WATER MAIN IMPROVEMENTS, WHITE PLAINS, NY

In conjunction with the redevelopment of the Winbrook Housing Campus in White Plains, NY, AKRF prepared construction documents for the upsizing of an existing sanitary sewer in South Lexington Avenue, replacement of an existing 14-inch water main in the Brookfield paper street, and a new water main through the Winbrook property. Mr. Seene serves as Project Manager for preparation of construction documents, permitting through state agencies and issuance of construction documents for bid.

### CHURCH OF THE RESURRECTION CAMPUS, PARKING, PEDESTRIAN AND CIRCULATION IMPROVEMENTS, RYE, NY

AKRF assisted the Resurrection Parish with developing a master plan for site access and circulation. The campus program included the main church building a rectory, grammar school, middle school, secondary church building, playground, open sports field and three residence buildings. As site access, parking and pedestrian facilities are shared among the campus uses, AKRF conducted a campus-wide traffic and pedestrian circulation improvements master plan to assess and make recommendations regarding site access, parking optimization and

BACKGROUND	
<b>Education</b>	BS, University of Delaware, Civil Engineering, 2010
<b>Licenses/Certifications</b>	Professional Engineer, NY #95227 Certified Floodplain Manager, Association of State Floodplain Managers
<b>Years of Experience</b>	10 years in the industry 7 years with AKRF

## JUSTIN H. SEENEY, PE, CFM

school safety. Following the traffic master plan, AKRF provided site/civil engineering services for the recommended parking lot improvements as well as a new playground area. The project included securing City approvals and preparation of construction documents for the reconfiguration of the existing parking lot in order to facilitate vehicular and pedestrian movements. The firm's services include site layout and design; grading and drainage; and permitting with the City of Rye. Mr. Seeney served as Project Manager for the development of site/civil engineering construction documents for the parking lot improvements and led the project through the local approvals process.

### **ADELAAR RESORT (FORMERLY KNOWN AS CONCORD RESORT), THOMPSON, NY**

Developed over several years and phases, the Adelaar Resort project will redevelop the historic Concord Resort into a variety of amenities, uses, and experiences. The Adelaar Resort will include a Resort Core with casino hotels and conference facilities, an entertainment village, a family resort area, and a residential village encompassing a total area of over 1,500 acres. As a Project Engineer, Mr. Seeney was responsible for the design of stormwater infrastructure improvements for the new and redeveloped roadways. This included design of storm drainage conveyance, stormwater management ponds, stormwater wetlands and green infrastructure practices. Mr. Seeney was also responsible for the preparation of the Stormwater Pollution Prevention Plan (SWPPP) for the project including the design of erosion and sediment control measures. As a Senior Project Engineer for construction, Mr. Seeney was responsible for review of submittals, response to RFIs, inspection of drainage improvements, and management of a SWPPP inspection program.

### **ETIHAD CITY FOOTBALL ACADEMY, ORANGETOWN, NY**

The NYCFC retained AKRF to complete due diligence, environmental review, and site planning services for the -construction of their training facility on a 16-acre site in Orangetown, NY. AKRF completed an extensive review of environmental impacts related to traffic, natural resources, cultural resources and hazardous materials. AKRF also assisted in site planning and prepared engineering site plans for local approval. Mr. Seeney served as project manager for the development from the site plan approval phase through construction, which is actively on going. Mr. Seeney served as Project Manager and oversaw the

preparation of approvals and construction documents including drawings, technical specifications and a SWPPP for the project. Mr. Seeney assisted NYCFC in value engineering the site improvements and evaluating qualified contractors. Mr. Seeney was also responsible for construction administration including review of submittals, response to RFI's and assisting the client in managing the contractor.

### **MILLWOOD FIREHOUSE, MILLWOOD, NY**

Before retaining AKRF, the Millwood Fire District (MFD) submitted a draft EIS (DEIS) that received numerous comments during the public review period. Subsequently, the MFD chose to revise its site layout and DEIS. AKRF was retained to provide environmental planning and engineering services to develop a site plan that meets the District's goals while avoiding significant adverse environmental impacts and addressing concerns of the public and involved agencies. As a Project Engineer, Mr. Seeney was responsible for the preparation of construction drawings and specifications for the Fire House site plan. Mr. Seeney designed the stormwater management program for the project in accordance with NYCDEP regulations for enhanced phosphorus removal due to the project's location within the NYC drinking water supply watershed. This included design of bioretention basins, porous pavement and a stormwater management pond. As the Project Manager throughout construction, Mr. Seeney was responsible for daily interaction with the construction manager and site contractor, review of submittals, response to RFIs, weekly construction inspections and change order review.





# JOHN D. MONTGOMERY, PE

SITE/CIVIL SUPPORT



**J**ohn Montgomery, PE, a Technical Director with AKRF, is a professional engineer with experience in Site/Civil Engineering design and construction document preparation. Mr. Montgomery’s technical skills include site layout and circulation design, grading and drainage design, utility layout and connection design, horizontal alignment and vertical profile design, erosion and sediment controls, stormwater permit preparation and specification preparation.

Mr. Montgomery has proven experience and the ability to lead design on public and private site/civil projects, new utility and utility relocation projects, streetscape and roadway improvement projects, and open space/recreation projects.

Mr. Montgomery is experienced in conducting site observations and inspections, design coordination, plan production, construction oversight and administration, and writing technical specifications. Mr. Montgomery is a well-rounded civil engineer with experience in multiple areas and an understanding of how to coordinate and administer projects. He is well versed at working and coordinating on projects outside of his immediate technical strengths and learning new processes.

Mr. Montgomery has experience working with city, state, and federal agencies, and with public sector clients. Mr. Montgomery has worked on several large development projects including Adelaar Phase I Infrastructure, Montreign Casino, Monster Golf Course, Adelaar Resort Hotel and Waterpark, and New York City Football Club Training Facility.

Prior to joining AKRF, Mr. Montgomery worked at another firm in Connecticut and has over 7 years of experience working on civil/site projects in Connecticut.

## RELEVANT EXPERIENCE

### ADELAAR RESORT (FORMERLY KNOWN AS CONCORD RESORT), THOMPSON, NY

The Adelaar Resort project redeveloped the historic Catskill Mountains Property into a variety of amenities, uses, and experiences. The Adelaar Resort includes a Resort Core with a casino hotel and conference center, an entertainment village with hotel, a waterpark hotel resort, reconfiguration of the historic Monster Golf Course, and a residential village encompassing a total area of over 1,500 acres. Mr. Montgomery was responsible for the management of the SWPPP Inspection and Reporting program. Mr. Montgomery oversaw a team of inspectors, reviewed and issued reports, coordinated with clients, contractors and the NYSDEC to ensure the project objectives were met. Mr. Montgomery also assisted with construction administration services on the project, which included RFI response, submittal review, generation of construction sketches and engineering directives, and attendance at field coordination meetings.

### ETIHAD CITY FOOTBALL ACADEMY NEW YORK, ORANGETOWN, NY

The NYCFC retained AKRF to complete due diligence, environmental review, and site planning services for the -construction of their training facility on a 16-acre site in Orangetown, NY. AKRF completed an extensive review of environmental impacts related to traffic, natural resources, cultural resources and hazardous materials. AKRF also assisted in site planning and prepared engineering site plans for

## BACKGROUND

### Education

BS, Rensselaer Polytechnic Institute, Civil Engineering, 2007

### Licenses/Certifications

Professional Engineer, CT #PEN.0028717  
Professional Engineer, NY #100112

### Professional Memberships

Member, Chi Epsilon National Engineering Honor Society,

### Years of Experience

13 years in the industry  
5 years with AKRF

## JOHN D. MONTGOMERY, PE

local approval. Mr. Montgomery worked on the design of site utilities including stormwater, sanitary sewer, gas, electric and water services. Mr. Montgomery prepared profiles for the sewer utilities to identify conflicts and coordinate crossings. Mr. Montgomery also prepared technical specifications for the project.

### **BEACON HILL BLUFF STABILIZATION, PORT WASHINGTON, NY**

AKRF was retained by the Town of North Hempstead to provide geotechnical engineering services for their planned stabilization work of an existing eroding slope in the town of Port Washington. The site, which consists of an area of about 30 acres and is bound to the north by West Shore Road, to the east and southeast by a capped landfill, to the south and southwest by the Harbor Links Golf Course, and to the west by Summit Road, is currently undeveloped, vegetated, and has steep slopes. A portion of the slope has experienced localized slope failures from stormwater runoff which has created significant erosion. AKRF reviewed existing soil borings for the site, and performed two deep borings to understand the stability of the existing slope. Slope stability analyses have been performed for the areas where significant erosion occurred, and recommended slope restoration details were suggested for implementation by the Town. Mr. Montgomery was responsible for preparation of the SWPPP, technical specifications, and engineering estimates of construction cost.

### **USTA NTC MASTER PLAN SUPPORT, QUEENS, NY**

AKRF prepared an EIS for the New York City Departments of City Planning (DCP) and Environmental Protection (DEP) as co-lead agencies to analyze the expansion of the National Tennis Center, which includes multiple improvements and construction projects at the USTA campus over several years. The EIS addressed a full range of environmental impacts associated with the tennis stadium, park space, and traffic improvements.

Mr. Montgomery was responsible preparing permit documents for the New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity. Mr. Montgomery prepared the Stormwater Pollution Prevention Plan (SWPPP) for the proposed project in accordance with the NYSDEC New York State Standards and Specifications for Erosion and Sediment Control and the NYSDEC Stormwater Management Design Manual. Mr. Montgomery was also responsible for overseeing the SWPPP Inspection and Reporting program.

Mr. Montgomery reviewed and edited draft reports, coordinated efforts with the client, and oversaw billing for this effort.

### **ROBERTO CLEMENTE STATE PARK, BRONX, NY**

The New York State Office of Parks, Recreation and Historic Preservation is redeveloping the Roberto Clemente State Park in Bronx, NY. The project consists of constructing two synthetic turf fields, new paths and recreation areas. AKRF completed the stormwater design to support the project. Existing soils at the site are contaminated and require a clean soil cap following disturbance. AKRF also completed detailed earthwork calculations to determine the required contaminated soil export. Mr. Montgomery was responsible for Project Management overseeing the stormwater management design and detailed earthwork calculations. Mr. Montgomery worked on the stormwater design, prepared the project Stormwater Pollution Prevention Plan (SWPPP), prepared the Erosion and Sediment Control Plans, assisted in the development of detailed earthwork calculations, prepared construction details, and prepared technical specifications. Mr. Montgomery also attended meetings and coordinated the design with consultants.



# ELAINE DU, EIT

## TRAFFIC ENGINEERING SUPPORT



**E**laine Du is driven to improve local communities using transportation engineering and planning expertise. She is a skilled traffic engineer with experience in transportation infrastructure projects for public agencies and private clients in New York, New Jersey, and Massachusetts. Prior to joining AKRF, Ms Du conducted traffic and comprehensive safety analyses for over 100 intersections in midtown Manhattan to identify high crash locations and guide roadway improvement strategies. Ms. Du has also conducted several Road Safety Audits (RSAs) for the Massachusetts Department of Transportation at vehicular, pedestrian, and bicycle high crash locations in Boston and western Massachusetts to identify existing safety issues and develop potential safety improvements.

### RELEVANT EXPERIENCE

#### QUAKER RIDGE COMPLETE STREET DESIGN, CITY OF NEW ROCHELLE, NY

AKRF assisted the City of New Rochelle in developing and submitting a Transportation Alternatives Program (TAP) grant application to design and construct Complete Street design elements on Quaker Ridge Road, a 1.5-mile roadway segment with four travel lanes and minimal/substandard bicycle and pedestrian facilities. AKRF reviewed crash histories and traffic volumes to evaluate the feasibility of converting the roadway segment from four lanes to three lanes with bike lanes and sidewalks as part of a road diet. The City was subsequently awarded the largest TAP grant in the mid-Hudson Region (\$3.5 million) in the 2017 cycle. As part of a multidisciplinary design team, AKRF is currently providing traffic engineering support by modeling traffic, bikes, and pedestrians using Synchro and Vissim simulation software, conducting a safety analysis including intersection-level crash diagrams, preparing a Draft Design Report, and providing public outreach support. Ms. Du serves as Deputy Project Manager.

#### HARTSDALE FOUR CORNERS ENGINEERING/PLANNING CONSULTANT SERVICES, TOWN OF GREENBURGH, NY

AKRF is providing engineering and transportation planning services to the Town of Greenburgh to provide initial insight into the redevelopment capacity of the Four Corners area surrounding the intersection of Central Park Avenue and East & West Hartsdale Avenues. AKRF is conducting an assessment of current issues affecting the transportation and stormwater infrastructure systems and proposing measures to manage conditions including evaluation of traffic congestion, parking and pedestrian facilities, as well as preliminary water and sanitary sewer capacity. AKRF is working with the Town to address pedestrian safety concerns in the study area, including conducting signal warrant analyses and proposing rectangular rapid flashing beacons (RRFB) and curb extensions to improve pedestrian safety at an unsignalized crosswalk. Ms. Du serves as traffic technical lead, including conducting comprehensive safety analyses to identify existing crash trends and crash factors.

#### VILLAGE OF MAMARONECK TRANSPORTATION ENGINEERING ON-CALL, VILLAGE OF MAMARONECK, NY

AKRF is contracted by the Village of Mamaroneck to provide on-call transportation planning and engineering services to the Village. AKRF's role is to field requests from the Mayor, Village Manager's Office, Engineer, Planner, and Traffic Board to conduct safety, traffic

**BACKGROUND**

**Education**  
BE, The Cooper Union, Albert Nerken School Of Engineering, Civil Engineering, 2014

**Licenses & Certifications**  
Engineer-in-Training, New York

**Professional Memberships**  
Member, Institute of Transportation Engineers, Metropolitan Section of New York & New Jersey

**Years of Experience**  
6 years in the industry  
1 year with AKRF

calming, school safety, and Complete Street studies in support of the Village's Safe Street initiative and Vision Zero policy, and review private applicant traffic and parking studies and provide testimony to Village Trustee, Planning, and Zoning Board of Appeals as needed. As part of this contract, Ms. Du prepared the Rye Neck Traffic Calming Study with a traffic calming toolbox to reduce speeding and cut-through traffic and introduce pedestrian and safety improvements in the vicinity of the Rye Neck High School/Middle School campus. Additionally, Ms. Du conducted an assessment of the Fenimore Road and Prospect Avenue intersection to provide pedestrian safety improvements such as daylighting, curb extensions, and improved pedestrian signage at an unsignalized crosswalk location.

### **PORT CHESTER ON-CALL TRAFFIC ENGINEERING SERVICES, VILLAGE OF PORT CHESTER, NY**

The Village of Port Chester retained AKRF for on-call traffic and transportation engineering services. Services include reviewing site plan applications, conducting intersection analyses to develop intersection improvements, parking and loading zone studies, signal warrant studies, and complete street and traffic calming studies. Ms. Du is the Deputy Project Manager and reviews traffic studies submitted with land use applications, supports the Village on transportation improvement projects, and presents findings to the Village Planning Commission. Ms Du's tasks have included conducting a traffic signal warrant study by the King Street School to improve school pedestrian safety and intersection operations, evaluating pedestrian safety and crash trends as part of the Village's downtown streetscape improvements, evaluating safety impacts of proposed developments, and proposing safety improvements as part of development application site plans.

### **CORTLANDT MEDICAL-ORIENTED DISTRICT, TOWN OF CORTLANDT, NY**

AKRF was retained by the Town of Cortlandt to prepare a Due Diligence Traffic Study associated with the proposed Cortlandt Medical Oriented District (MOD) along the Route 202/35 corridor. AKRF performed trip generation surveys and estimated the levels of traffic associated with the proposed development plan including a hospital expansion, medical office space, hotel, retail and residential uses. Ms. Du serves as traffic analyst, developing trip generation rates for a mixed-used development and analyzing intersection operations. In addition, Ms. Du conducted a comprehensive safety analysis and developed safety measures and mitigations for over 20 intersections in the Cortlandt MOD study area.

### **NEW ROCHELLE UPDATED PARKING STUDY, NEW ROCHELLE, NY**

AKRF was retained by the City of New Rochelle to evaluate parking conditions in the downtown area and provide recommendations to increase the on-street parking supply. The study included collecting and summarizing existing parking supply, existing demand, and parking regulations to identify areas that were operating above capacity versus areas that were underutilized. Recommendations included parking regulation changes, improved wayfinding signage, and roadway reconfigurations or re-striping in increase parking supply. Ms. Du was the Deputy Project Manager responsible for collecting and summarizing existing parking data and developing recommendations to increase parking supply.



# ROBERT GARCIA, PE

## CONSTRUCTION ADMINISTRATION & INSPECTION - SUPPORT



**R**obert Garcia, PE is a Technical Director with experience in civil engineering. He has extensive experience in site development and public infrastructure design. Mr. Garcia’s project work includes roadway (both vertical and horizontal alignments), stormwater management, water and sanitary sewer design including lift/pump station design. He is also well experienced in field/site reconnaissance and construction observation, inspection and construction management. Mr. Garcia has brought his array of experience to AKRF and has become a valued employee working on various assignments in New York City metropolitan area.

Prior to joining AKRF, Mr. Garcia had gained his engineering experience in both New Jersey and Florida, and has worked on a myriad of projects ranging from small commercial to large residential development projects. In his time in Florida, Mr. Garcia focused on the infrastructure design of these projects and assisted on the permitting process to meet the project goals. He focused on the stormwater management and utility design of the projects, working closely with the developers and municipal agencies to facilitate permit approvals. He was also involved in the construction inspection and certification of projects to assure they were constructed as intended to obtain Certificate of Occupancy.

### BACKGROUND

#### Education

Certificate, New Jersey Institute of Technology, Construction Management, 2014

BS, New Jersey Institute of Technology, Civil Engineering, 2003

#### Licenses & Certifications

Professional Engineer, NY #093666

Professional Engineer, FL #69935

NYCDDC Water Main Inspection Certification

OSHA 10 Hour Construction Safety & Health Course

#### Years of Experience

17 years in the industry

6 years with AKRF

## RELEVANT EXPERIENCE

### U.S. ROUTE 6 TRAFFIC SIGNAL IMPROVEMENTS, TOWN OF CORTLANDT, NY

AKRF provided design, permitting and construction inspection services for traffic signal and roadway improvements needed for the construction of the 36-acre Cortlandt Crossing retail development. The retail facility required two new traffic signals along the Route 6 corridor in coordination with the roadway improvements necessary to provide for sufficient traffic flow. In addition, the project included the design and installation of fire preemption devices and an adaptive signal control system for seven traffic signals along approximately 1.6 miles of U.S. Route 6. Mr. Garcia is currently assisting in providing Consultant Resident Engineer Inspector services for the traffic signal system and roadway improvements (widening and drainage) within the NYSDOT ROW on Route 6 as part of the Cortlandt Crossing retail development.

### ADELAAR RESORT, TOWN OF THOMPSON, NY

AKRF was the Civil Engineer for the Kartrite Waterpark Resort which included an 80,000 square foot indoor waterpark attraction, four story hotel, and conference center. The project location was historically landfilled and environmentally blighted which qualified it for redevelopment under the New York State Brownsfield Clean-up Program. Mr. Garcia served as Deputy Project Manager, and assisted and coordinated with the Master Developer, the waterpark developer and the waterpark developer’s architect in the general site planning and layout of the project. He also oversaw and prepared various site plans from initial concepts to final construction documents for discussion on weekly coordination meetings with the project team in order to adhere to the Master Developer’s Comprehensive Development Plan. He assisted in various planning board meetings between the Town and the waterpark developer to ensure discussion design inputs are incorporated in site plans. He is currently in the lead role for construction administration of site work to ensure the work is done in accordance to the construction documents and coordinates with the developer’s construction management team to

## ROBERT GARICA, PE

address any issues that arise. He also works through the construction manager's web-based software "ProCore" to respond to RFI's, Submittals and construction document revisions.

### **LENOX TERRACE REDEVELOPMENT, NEW YORK, NY**

Mr. Garcia assisted the planning team in conducting the due diligence study of the existing infrastructure to provide relevant information of the existing site/street, utility infrastructure and determine any issues/deficiencies that may need proper attention during the future design phases and ULURP process. He worked with the surveyor and the planning team to review existing site and building survey drawings with respect to topography and drainage, site inventory, location of existing curb cuts, site lighting, underground utilities, signage, and provided guidance on any potential conflict. In addition, he reviewed utility maps and as-builts obtained from various agencies and utility providers to confirm the location, availability, and capacity of the services to and throughout the site.

### **NYCEDC, HUDSON SQUARE STREETScape, NEW YORK, NY**

AKRF designed enhanced pedestrian space and new amenities along Hudson Street to improve pedestrian, bicycle, and vehicular safety as part of the \$27 million "Hudson Square is Now" streetscape improvement plan, a major public-private, design-build investment between Canal Street and West Houston in Manhattan. The project scope includes over 8,000 square feet of planting areas using continuous tree pits and permeable pavers to maximize stormwater capture and support healthier trees; new benches providing the capacity for over 150 seats; 2,255 square feet of allowable space for future sidewalk cafes; sidewalk realignments and new pedestrian ramps; a dedicated, parking-protected bike lane on Hudson Street from Houston to Canal Street; and over 40 additional bicycle racks. Mr. Garcia serves as a Resident Engineer on behalf of the City Agency governing the work. His main responsibilities include managing all aspects of the construction oversight process including the assembly of project files, submittals reviews, cost controls/payment applications review, safety reviews, change orders, RFI responses, As-Builts review, QA/QC monitoring, and conducting progress meetings.

### **PHIPPS HOUSES, COMBINED SEWER DRAIN IN E. 180TH STREET, THE BRONX, NY**

The site development project, located at 988 East 180th Street in The Bronx, consisted of the demolition of the Lambert Houses Building 3A existing 7-story residential building and construction of a new 18-story high-rise residential building with open space components. As part of the project, the New York City Department of Environmental Protection (DEP) required upgrades to the water and combined sewer systems. AKRF designed and prepared the construction documents for the Private Sewer Design permit package incorporating the water and combined sewer system improvements in coordination with and in accordance to DEP requirements. The utility system improvements consisted of approximately 200 feet of water main replacement and approximately 575 feet of combined sewer upgrades. Mr. Garcia served as lead Resident Engineer on the project and supervised the day-to-day Field Inspector; attended construction progress meetings; performed submittal, payment application, As-Built drawing, and change order reviews; responded to RFIs; and supervised critical construction work such as sheeting/shoring installation, concrete pours and final roadway restoration. Mr. Garcia also prepared the final close-out acceptance package of the infrastructure work for review and approval by DEP.

### **IS 323, NEW YORK, NY**

AKRF is providing site/civil engineering, consulting services for renovations to the school and playground, in the downtown area of Manhattan. The project includes the renovation of an existing building and a new play yard, inclusive of striping. The firm's services include site layout and design; grading and drainage; and permitting with New York City Department of Environmental Protection (DEP), New York City Department of Transportation (DOT), New York City Department of Parks and Recreation (DPR), New York City Transit (NYCT), and the Building Code Compliance Division BCC of the SCA for construction within the street, sidewalk, and property. Mr. Garcia coordinated with school and DEP for the design / drainage issues with the existing infrastructure as part of the engineering due diligence. He has also provided civil engineering design services and permitting support, as well as engineering due diligence and schematic design.

**P R O J E C T   A P P R O A C H**

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**A**KRF understands the primary goal of the Broad Street Safety Improvements Project is to reduce the number and severity of crashes along the segment of Broad Street from Atlantic Street to Greyrock Place through the Local Roads Accident Reduction Program (LRARP). We understand that the intention of the LRARP is to fund low to moderate cost improvements that will address spot hazards based on existing crash data and proven countermeasures. As the City of Stamford has already provided a comprehensive assessment of available data for the corridor and patterns in the crash data, AKRF will provide complementary design services that investigate the site constraints and feasibility of the potential improvement measures. In addition and if desired by the City, AKRF can build upon the proposed improvement measures to provide a holistic future vision for the corridor including complementary green infrastructure and intelligent transportation systems (ITS) technologies which could serve as a guide for street improvement projects throughout the City.

## IDENTIFICATION OF SAFETY IMPROVEMENTS

AKRF will commence the project with a Kick-Off meeting to allow our team to understand the primary concerns of the City officials most familiar with the corridor and priority improvement measures. AKRF will work with the City to determine the scope of AKRF's services to be provided including the desire for an evaluation of the most recent available crash data and evaluation of alternative safety improvement measures.

As the grant application was developed using crash data available from 2012 to 2016, at the direction of the City AKRF would assess the most recent available crash data to ensure trends are similar to what was present at the time of the grant application and refine the recommended improvement measures where necessary. The latest available crash data may include sample crash information after the completion of the citywide traffic signal optimization project.

With in-house traffic engineers and a Roadway Safety Professional (RSP) on staff, AKRF can provide an extensive toolbox to the City for comprehensive innovative traffic and pedestrian safety improvements from which several alternatives could be evaluated. For instance, the City has noted in the LRARP application that the majority of crashes in the area are due to rear-end collisions,

which are frequently attributed to the presence of traffic control devices, following too closely, congestion and driver inattention. Decreasing the number of stops to promote platooning of vehicles and reducing the speed changes throughout the corridor are proven countermeasures in reducing rear-end crashes. This can be accomplished through a coordinated signal system, as was recently implemented by the City of Stamford, and Adaptive Traffic Control Systems (ATCS) which optimize traffic signal timing for arterials, side streets and pedestrians in real-time. Given the varying land uses in the study area with demand for particular patterns and modes of transportation which peak at different times throughout the day, an ATCS would allow the traffic signals to adapt to changes in vehicular and pedestrian activity throughout the day to serve all users efficiently. In addition, AKRF has the ability to model the potential reduction in travel time, delay and number of stops associated with an ATCS in the planning stages before design and construction.

Given the City's existing signal infrastructure including comprehensive detection and communication, an ATCS could meet the economic requirements of the LRARP. However, even if existing funding limits the improvements that can be carried to the design phase, AKRF can provide both short-term improvements which adhere to the LRARP and long-term solutions which could qualify for future funding such as the upcoming Congestion Mitigation Air Quality (CMAQ) Program and provide a guide for future improvements to complement the existing LRARP.

## DESIGN

Once the scope of the proposed improvements has been defined through collaboration with the City, our in-house traffic and civil engineers will work together to complete a robust evaluation of site opportunities and constraints with respect to traffic, drainage, pavement and lighting conditions. In addition, we will work with our survey sub-consultant, Freeman Companies, to procure a boundary, topographic and utility survey of the project area.

From AKRF's extensive experience with urban roadway improvement projects geared toward safety improvements and Vision Zero Policies, we understand that successful multimodal roadway design needs to strike a balance between efficient operations as well as consideration for vulnerable roadway users while



## PROJECT APPROACH

considering economic feasibility which is best accomplished through early collaboration with traffic, safety, and roadway professionals. Our roadway engineers are involved from the initial development of safety improvement measures to identify critical paths and issues early in the project, while using their experience to refine improvement measures for constructability and economic efficiency. For instance, when curb extensions and raised medians are introduced to a roadway they have the potential to impact existing drainage. AKRF's extensive experience with drainage design allows our engineers to refine the shape and transitions of curb extensions and medians to minimize the impact to existing drainage. AKRF also looks for opportunities to enhance roadway improvement projects by incorporating green infrastructure improvements in dense urban areas. AKRF has designed over 1,000 bioswales for New York City and dozens of green infrastructure practices and specializes in designing green infrastructure practices in constrained urban areas and right-of ways.

Our early due diligence and coordination will streamline our schematic design level plans to include the most feasible and economic improvement measures with thoughtful consideration to the urban environment and long term goals of the City. As we understand the value of regular input from the City of Stamford, we will meet with the City following completion of the schematic development plans to review the refined improvement measures. In addition and if desired by the City, AKRF will coordinate with the Connecticut Department of Transportation (CTDOT) Division of Highway Design to discuss the proposed design and ensure the goals of the LRARP are being met.

Following our meeting with the City Staff, AKRF will advance schematic design plans to a preliminary design document level. AKRF is experienced developing a design and plan production schedule that meets the requirements of board meetings and internal City department review schedules. We will coordinate with the City and State engineers to ensure their comments are accurately and expeditiously incorporated into the design documents to produce the final biddable construction documents. At this time AKRF will utilize our electrical engineering sub-consultant Stantec to provide electrical wiring plans for new street lighting.

Upon approval from the City, AKRF will prepare the design submission to CTDOT for Plans, Specifications & Estimates (PS&E) approval to receive authorization to proceed with construction. AKRF will prepare final construction documents in accordance with City of Stamford and CTDOT standards and specifications.

AKRF will utilize CTDOT standard pay items where possible and develop the bid forms, including bid quantities, for use by prospective bidders. If necessary, AKRF will prepare custom specification and pay item sections to specify roadway improvements not covered by the standard CTDOT pay items.

## CONSTRUCTION

AKRF understands that clear and accurate bidding is the first step in any successful construction project. AKRF will attend pre-bid meetings and assist in the evaluation of contractor qualifications to ensure the scope of improvements is clearly and accurately captured in contractor bids.

AKRF has provided construction oversight for all of our design projects. We understand that careful attention must be paid to submittals, responding to Contractor's inquiries, tracking budgets, and maintaining the construction schedule to ensure that the project progresses successfully. AKRF will assist in monitoring the construction to ensure physical improvements meet the requirements of approved construction documents. AKRF will work closely with the City's Construction Manager throughout the construction process to keep the project on schedule and on budget.

If desired, AKRF will provide Construction Inspection services for the proposed work. Through our extensive experience providing Resident Engineering and Inspection services for numerous municipal infrastructure improvement project, we understand the value of field oversight of a contractor's work. Our inspectors are experienced verifying infrastructure improvements meet the requirements of construction documents as well as preparing the requisite forms and reports to ensure contractor payment is consistent with actual construction progress and quality.

**S F 3 3 0 P A R T I I**

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# ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)  
RFQ 792

## PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OR OFFICE) NAME <b>AKRF, Inc.</b>			3. YEAR ESTABLISHED <b>1933</b>	4. UNIQUE ENTITY IDENTIFIER <b>828674114</b>
2b. STREET <b>700 Canal Street, Building 1, Floor 1</b>			5. OWNERSHIP	
2c. CITY <b>Stamford</b>	2d. STATE <b>CT</b>	2e. ZIP CODE <b>06902</b>		
6a. POINT OF CONTACT NAME AND TITLE <b>Wendy Ho, PE, LEED AP, ENV SP, Senior Vice President</b>			a. TYPE <b>Corporation</b>	
6b. TELEPHONE NUMBER <b>203-666-2030</b>			b. SMALL BUSINESS STATUS <b>N/A</b>	
6c. E-MAIL ADDRESS <b>who@akrf.com</b>			c. NAME OF FIRM (If block 2a is a branch office) <b>AKRF, Inc.</b>	
8a. FORMER FIRM NAME(S) (if any)			8b. YEAR ESTABLISHED <b>1933</b>	8c. UNIQUE ENTITY IDENTIFIER <b>828674114</b>
<b>Quinn Engineering Co., Inc.</b> <b>Hawthorne Consultants Engineers, Inc.</b> <b>Knight Associates, Inc. R&amp;D Engineering, Inc.</b> <b>CRA Infrastructure &amp; Engineering, Inc.</b>				

### 9. EMPLOYEES BY DISCIPLINE

### 10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
01	Acoustical Engineer	11		A01	Acoustics, Noise Abatement	4
02	Administrative	39		A10	Asbestos Abatement	3
08	CADD Technician	1		C10	Shopping Centers	3
12	Civil Engineer	60	1	E01	Ecological/Archeological Investigations	5
14	Computer Programmer	7		E09	EIS	8
19	Ecologist	3		E10	Environmental and Natural Resource Mapping	3
20	Economist	7		E11	Environmental Planning	6
23	Environmental Engineer	20		E12	Environmental Remediation	4
24	Environmental Scientist	38		E13	Environmental Testing & Analysis	4
29	Geographic Information System Spec.	6		G04	GIS Services	3
30	Geologist	2		P05	Planning (Community, Regional, State)	5
39	Landscape Architect	4		L03	Traffic Transportation Engineering	6
44	Air Quality Specialist	7		T03	Water Resources Hydrology Ground Water	3
47	Planner:Urban/Regional	27	1	W02	Zoning Land Use studies	4
58	Technician/Analyst	9				
60	Transportation Engineer	16	2			
	Historians	9				
	Other Employees	45				
<b>TOTAL</b>		<b>311</b>	<b>4</b>			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS  
(Insert revenue index number shown at right)

### PROFESSIONAL SERVICES REVENUE INDEX NUMBER

a. Federal Work	1
b. Non-Federal Work	10
c. Total Work	10

1. Less than \$100,000
2. \$100,000 to less than \$250,000
3. \$250,000 to less than \$500,000
4. \$500,000 to less than \$1 million
5. \$1 million to less than \$2 million

6. \$2 million to less than \$5 million
7. \$5 million to less than \$10 million
8. \$10 million to less than \$25 million
9. \$25 million to less than \$50 million
10. \$50 million or greater

### 12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE



b. DATE

3/4/2020

c. NAME AND TITLE

**Wendy Ho, PE, LEED AP, ENV SP, Senior Vice President**

# ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)  
**STAMFORD RFQ 792: Broad Street Corridor Safety Improvements Design**

## PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)


2a. FIRM (OR BRANCH OFFICE) NAME <b>Freeman Companies, LLC</b>			3. YEAR ESTABLISHED <b>2009</b>	4. DUNS NUMBER <b>832772987</b>
2b. STREET <b>36 John Street</b>			5. OWNERSHIP a. TYPE <b>Limited Liability Company</b>	
2c. CITY <b>Hartford</b>	2d. State <b>CT</b>	2e. ZIP CODE <b>06106</b>	b. SMALL BUSINESS STATUS <b>DBE, SBE, MBE; SAM-Active US SBA 8(a)</b>	
6a. POINT OF CONTACT NAME AND TITLE <b>Rohan A. Freeman, PE, LS, President and Founder</b>			7. NAME OF FIRM (if block 2a is a branch office)	
6b. TELEPHONE NUMBER <b>(860) 251-9550 (Office); (860) 712-7077 (Mobile)</b>		6c. E-MAIL ADDRESS <b>rffreeman@freemancos.com</b>		
8a. FORMER FIRM NAME (S) (if any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
<b>02</b>	<b>Administrative</b>	<b>4 FT/ 1 PT</b>		<b>B02/ 011</b>	<b>Bridges</b>	<b>6</b>
<b>12/ 02</b>	<b>Civil Engineer</b> 3 CT Licensed PE; 1 CT PE PMP; 1 Dually Licensed PE, LS; 1 EIT	<b>7</b>		<b>C01</b>	<b>Cartography</b>	<b>2</b>
<b>15</b>	<b>Construction Inspector</b> 1 NICET III (Professional Engineers also Provide Road and Bridge Construction Inspection Services)	<b>1</b>		<b>C07</b>	<b>Coastal Engineering</b>	<b>2</b>
<b>24</b>	<b>Environmental Scientists</b> 1 CT Licensed Environmental Professional (LEP); 1 CT Licensed Asbestos Consultant-Inspector/Management Planner, Asbestos Consultant-Project Monitor and Lead Inspector Risk Assessor	<b>4</b>		<b>C10/ 017</b>	<b>Commercial Building (Low Rise); Shopping Centers</b>	<b>2</b>
<b>27</b>	<b>Foundation/Geotechnical Engineer *</b> 4 CT Licensed PE; 1 Geologist; 1 ACI, NETTCP	<b>6</b>		<b>C15</b>	<b>Construction Management</b>	<b>2</b>
<b>38/ 08</b>	<b>Land Surveyor *</b> 3 CT Licensed LS; 1 Dually Licensed PE, LS	<b>6</b>		<b>C16</b>	<b>Construction Surveying</b>	<b>6</b>
<b>39/ 07</b>	<b>Landscape Architect *</b> 2 CT Licensed LA	<b>4</b>				
<b>57/05</b>	<b>Structural Engineer (Bridge/Structures Design and Inspection) *</b> 1 CT Licensed PE	<b>2</b>		<b>C18</b>	<b>Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting</b>	<b>2</b>
<b>60</b>	<b>Traffic/Transportation Engineer *</b> 1 CT Licensed PE	<b>2</b>		<b>D01</b>	<b>Dams (Concrete; Arch)</b>	<b>2</b>
				<b>D02</b>	<b>Dams (Earth; Rock); Dikes; Levees</b>	<b>2</b>
				<b>D04</b>	<b>Design-Build - Preparation of Requests for Proposals</b>	<b>2</b>
	<b>* Professional Staff are Proficient In CADD and Civil 3D</b>			<b>D05</b>	<b>Digital Elevation and Terrain Model Development</b>	<b>2</b>
	<b>TOTAL EMPLOYEES</b>	<b>37</b>		<b>D08</b>	<b>Dredging Studies and Design</b>	<b>2</b>

**SF 330 – Part II – FREEMAN COMPANIES, LLC - Continued**

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
				D07	Dining Halls; Clubs; Restaurants	2
				E02/ 029	Educational Facilities; Classrooms	5
				E09/ 208, 220	Environmental Impact Studies, Assessments or Statements	2
				F02	Field Houses; Gyms; Stadiums Shopping Centers	5
				G01/ 039	Garages; Vehicles Maintenance Facilities; Parking Decks	2
				G03 103	Geodetic Surveying: Ground and Airborne	3
				G04	Geographic Information System Services: Development, Analysis, and Data Collection	3
				H07	Highways; Streets; Airfield Paving; Parking Lots	5
				H09 048	Hospital and Medical Facilities	2
				H11 050	Housing (Residential, Multi-Family; Apartments; Condominiums)	5
				H13	Hydrographic Surveying	4
				I01	Industrial Buildings; Manufacturing Plants	2
				L02	Land Surveying	5
				P06	Planning (Site, Installation and Project)	4
				P08 084	Prisons and Correctional Facilities	2
				P11	Postal Facilities	2
				P12	Power Generation, Transmission, Distribution	3
				P13	Public Safety Facilities	2
				R04	Recreation Facilities (Parks, Marinas, Etc.)	2
				R06/ 089	Rehabilitation (Buildings; Structures; Facilities	5
				R11/ 092	Rivers; Canals; Waterways; Flood Control	2
				S05	Soils & Geologic Studies; Foundations	5
				S10	Surveying; Platting; Mapping; Flood Plain Studies	6
				S11/ 100	Sustainable Design	3
				S13	Storm Water Handling and Facilities	3
				T02	Testing & Inspection Services	5
				T03	Traffic and Transportation Engineering	2
				T04	Topographic Surveying and Mapping	5
				U02	Urban renewals; Community Development	6
				U03	Utilities (Gas and Steam)	2
				W01	Warehouse and Depots	2
				W02	Water Resources; Hydrology; Ground Water	2
				Z01 117	Zoning; Land Use Studies	4

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS <i>(Insert revenue index number shown at right)</i>		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	<b>1</b>	1. Less than \$100,000	2. \$100,000 to less than \$250,000	3. \$250,000 to less than \$500,000	4. \$500,000 to less than \$1 million
b. Non-Federal Work	<b>6</b>	5. \$1 million to less than \$2 million	6. \$2 million to less than \$5 million	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million
c. Total Work	<b>6</b>	9. \$25 million to less than \$50 million	10. \$50 million or greater		

12. AUTHORIZED REPRESENTATIVE <i>The foregoing is a statement of facts.</i>	
a. SIGNATURE 	b. DATE <b>March 2, 2020</b>

# ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

## PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME <b>Stantec Consulting Services Inc.</b>			3. YEAR ESTABLISHED 2016	4. DUNS NUMBER 07-922-5833
2b. STREET 30 Oak Street, Suite 400			<b>5. OWNERSHIP</b>	
2c. CITY Stamford	2d. STATE CT	2e. ZIP CODE 06905-5313	a. TYPE <b>Corporation</b>	
6a. POINT OF CONTACT NAME AND TITLE Joseph R. Bartels, P.E., Principal			b. SMALL BUSINESS STATUS <b>N/A</b>	
6b. TELEPHONE NUMBER (203) 328-1899		6c. E-MAIL ADDRESS joseph.bartels@stantec.com		
7. NAME OF FIRM (If block 2a is a branch office) <b>Stantec Inc.</b>				
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER
Edwards and Zuck, P.C			1997	07-922-5833

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (See Below)
		(1) Firm	(2) Branch			
02	Administrative	3426	1	A11	Auditoriums & Theaters	6
05	Archaeologist	233	0	C05	Child Care/Development Facilities	3
06	Architect	946	0	C08	Codes, Standards; Ordinances	6
07	Biologist	266	0	C10	Commercial Building (low rise); Shopping Centers	10
08	CAD Technician	665	2	C11	Community Facilities	8
12	Civil Engineer	2529	0	D07	Dining Halls; Clubs; Restaurants	6
14	Computer Programmer	457	0	E02	Educational Facilities; Classrooms	10
15	Construction Inspector	292	0	E03	Electrical Studies and Design	8
21	Electrical Engineer	707	6	F02	Field Houses; Gyms; Stadiums	6
23	Environmental Engineer	435	0	F03	Fire Protection	4
24	Environmental Scientist	934	0	H04	Heating; Ventilating; Air Conditioning	6
30	Geologist	229	0	H06	Highrise; Air-Rights-Type Buildings	6
37	Interior Designer	246	0	H09	Hospital & Medical Facilities	10
38	Land Surveyor	356	0	H10	Hotels; Motels	7
39	Landscape Architect	229	0	H11	Housing (Residential, Multi-Family, Apts, Condos)	10
42	Mechanical Engineer	641	10	L01	Laboratories; Medical Research Facilities	8
47	Planner, Urban/Regional	276	0	O01	Office Buildings; Industrial Parks	9
48	Project Manager	676	1	P07	Plumbing & Piping Design	2
57	Structural Engineer	739	0	S02	Security Systems; Intruder & Smoke Detection	4
58	Technician/Analyst	1869	0	S11	Sustainable Design	5
	Other	1311	0			
<b>Total</b>		<b>17462</b>	<b>20</b>			

<b>11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS</b> <i>(insert revenue index number shown at right)</i>	<b>PROFESSIONAL SERVICES REVENUE INDEX NUMBER</b>
a. Federal Work	10
b. Non-Federal Work	10
<b>c. Total Work</b>	<b>10</b>

### 12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE <p style="text-align: center;"><b>December 1, 2019</b></p>
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c. NAME AND TITLE  
**Thomas M. Walsh, PE, Vice President, Mid Atlantic Regional Leader**

## REQUIRED FORMS

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CERTIFICATE OF CORPORATE RESOLUTION  
RFQ/RFP

I, Steven Krivitzky, SECRETARY OF AKRF, Inc.  
A CORPORATION EXISTING UNDER THE LAWS OF THE STATE OF New York, DO  
HEREBY CERTIFY THAT THE FOLLOWING IS A TRUE COPY OF CERTAIN RESOLUTIONS  
ADOPTED BY THE BOARD OF DIRECTORS OF SAID COMPANY, AT A MEETING THEREOF  
DULY CALLED AND HELD ON THE 11th DAY OF December, 2019.

“RESOLVED, THAT THE Vice President  
OF THE CORPORATION BE AND IS HEREBY AUTHORIZED TO SIGN  
A CONTRACT WITH THE CITY OF STAMFORD, CONNECTICUT FOR  
Broad Street Corridor Safety Improvements Design, RFP/RFQ No. 792”.

I, FURTHER CERTIFY THAT, Michael Beattie IS THE DULY  
ELECTED Vice President OF AKRF, Inc.  
AND THE FOREGOING RESOLUTION HAS NOT BEEN MODIFIED OR REPEALED AND IS  
IN FULL FORCE AND EFFECT.

IN WITNESS WHEREOF, I HAVE, HEREUNTO, SUBSCRIBED BY NAME AND AFFIXED  
THE SEAL OF SAID CORPORATION THE 24 DAY OF February, 2020.



\_\_\_\_\_  
SECRETARY



**City of Stamford**  
**State of Connecticut Contractor Verification (in accordance with Public Act 16-67)**

**Compliance Affidavit**

I, the undersigned, personally and on behalf of AKRF, Inc., having  
(Contractor)  
been duly sworn, affirm and say that I have read, understand and am in compliance with Public Act 16-67 Concerning the Disclosure of Certain Education Personnel Records, Criminal Penalties for Threatening in Educational Settings and the Exclusion of a Minor's Name from Summary Process Complaints, and that neither I nor said Contractor, to the best of my knowledge, is in possession of any information indicating a finding of abuse or neglect or sexual misconduct, or otherwise have knowledge of such a condition(s) for any employees working on the project identified in RFQ/RFP or Bid S- 792. Further, if I or said Contractor (RFQ/RFP or Bid Number) become aware of any information indicating such a finding, or otherwise gain knowledge of such a condition, I and/or said Contractor will immediately forward such information to the City of Stamford.

Contractor Name: AKRF, Inc.

Street Address: 700 Canal Street, Building 1, Floor 1

City, State, Zip: Stamford, CT 06902

Title of person completing this form: Vice President

Signature: [Handwritten Signature]

Printed Name: Michael Beattie

Date: 2/26/2020

ACKNOWLEDGMENT

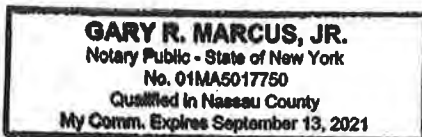
STATE OF NEW YORK

COUNTY OF NEW YORK

ss. 440 PARK AVE So, 7<sup>th</sup> FLOOR

Date: FEB 26, 2020

Personally appeared MICHAEL BEATTIE, as VICE PRESIDENT of the above named Contractor, and attested that the foregoing statements are true and accurate to the best of his/her knowledge and belief on behalf of himself and said Contractor.



[Handwritten Signature]  
Signature of Notary Public

My Commission Expires: 9/13/21

**Contractor's Statement**

Pursuant to Section 103.1 of the Stamford Code of Ordinances, I hereby provide the following:

If a joint venture, trustee, partnership, limited liability company or partnership, the names and addresses of all joint ventures, beneficiaries, partners or members:

Not applicable

If a corporation, the names and addresses of all officers, and the names and addresses of all parties owning over 10% of its common stock or over 10% of its preferred stocks. If any of said stockholders is a holding corporation, the names and addresses of all persons owning a beneficial interest in over 10% if the common or preferred stock of said holding company.

No 1 individual owns 10% or more of the corporation.

The names and positions of all persons listed hereinabove who are elected or appointed officers or employees of the City of Stamford.

Not Applicable

Name of Bidder/Proposer: AKRF, Inc.

Signature of Bidder/Proposer: Steven Krivitzky

Title: Chief Financial Officer

Company Name: AKRF, Inc.

Address: 440 Park Avenue South, 7th Floor, New York, NY 10016

Indicate if company submitting this proposal is:  MBE  WBE  DBE

**COMMISSION ON HUMAN RIGHTS AND OPPORTUNITIES  
CONTRACT COMPLIANCE REGULATIONS  
NOTIFICATION TO BIDDERS**

(Revised 09/3/15)

The contract to be awarded is subject to contract compliance requirements mandated by [Sections 4a-60](#) and [4a-60a](#) of the Connecticut General Statutes; and, when the awarding agency is the State, [Sections 46a-71\(d\)](#) and [46a-81i\(d\)](#) of the Connecticut General Statutes. There are Contract Compliance Regulations codified at [Section 46a-68j-21 through 43](#) of the Regulations of Connecticut State Agencies, which establish a procedure for awarding all contracts covered by [Sections 4a-60](#) and [46a-71\(d\)](#) of the Connecticut General Statutes.

According to [Section 46a-68j-30\(9\)](#) of the Contract Compliance Regulations, every agency awarding a contract subject to the contract compliance requirements has an obligation to “aggressively solicit the participation of legitimate minority business enterprises as bidders, contractors, subcontractors and suppliers of materials.” “Minority business enterprise” is defined in [Section 4a-60](#) of the Connecticut General Statutes as a business wherein fifty-one percent or more of the capital stock, or assets belong to a person or persons: “(1) Who are active in daily affairs of the enterprise; (2) who have the power to direct the management and policies of the enterprise; and (3) who are members of a minority, as such term is defined in subsection (a) of [Section 32-9n](#).” “Minority” groups are defined in [Section 32-9n](#) of the Connecticut General Statutes as “(1) Black Americans . . . (2) Hispanic Americans . . . (3) persons who have origins in the Iberian Peninsula . . . (4) Women . . . (5) Asian Pacific Americans and Pacific Islanders; (6) American Indians . . .” An individual with a disability is also a minority business enterprise as provided by [Section 4a-60g](#) of the Connecticut General Statutes. The above definitions apply to the contract compliance requirements by virtue of [Section 46a-68j-21\(11\)](#) of the Contract Compliance Regulations.

The awarding agency will consider the following factors when reviewing the bidder’s qualifications under the contract compliance requirements:

- (a) the bidder’s success in implementing an affirmative action plan;
- (b) the bidder’s success in developing an apprenticeship program complying with [Sections 46a-68-1 to 46a-68-17](#) of the Administrative Regulations of Connecticut State Agencies, inclusive;
- (c) the bidder’s promise to develop and implement a successful affirmative action plan;
- (d) the bidder’s submission of employment statistics contained in the “Employment Information Form”, indicating that the composition of its workforce is at or near parity when compared to the racial and sexual composition of the workforce in the relevant labor market area; and
- (e) the bidder’s promise to set aside a portion of the contract for legitimate minority business enterprises. [See Section 46a-68j-30\(10\)\(E\)](#) of the Contract Compliance Regulations.

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**INSTRUCTIONS AND OTHER INFORMATION**

The following [BIDDER CONTRACT COMPLIANCE MONITORING REPORT](#) must be completed in full, signed, and submitted with the bid for this contract. The contract awarding agency and the Commission on Human Rights and Opportunities will use the information contained thereon to determine the bidders compliance to [Sections 4a-60](#) and [4a-60a](#) CONN. GEN. STAT., and [Sections 46a-68j-23](#) of the Regulations of Connecticut State Agencies regarding equal employment opportunity, and the bidder’s good faith efforts to include minority business enterprises as subcontractors and suppliers for the work of the contract.

1) **Definition of Small Contractor**

[Section 4a-60g](#) CONN. GEN. STAT. defines a small contractor as a company that has been doing business under the same management and control and has maintained its principal place of business in Connecticut for a one year period immediately prior to its application for certification under this section, had gross revenues not exceeding fifteen million dollars in the most recently completed fiscal year, and at least fifty-one percent of the ownership of which is held by a person or persons who are active in the daily affairs of the company, and have the power to direct the management and policies of the company, except that a nonprofit corporation shall be construed to be a small contractor if such nonprofit corporation meets the requirements of subparagraphs (A) and (B) of subdivision [4a-60g](#) CONN. GEN. STAT.

2) Description of Job Categories (as used in Part IV Bidder Employment Information) (Page 2)

**MANAGEMENT:** Managers plan, organize, direct, and control the major functions of an organization through subordinates who are at the managerial or supervisory level. They make policy decisions and set objectives for the company or departments. They are not usually directly involved in production or providing services. Examples include top executives, public relations managers, managers of operations specialties (such as financial, human resources, or purchasing managers), and construction and engineering managers.

**BUSINESS AND FINANCIAL OPERATIONS:** These occupations include managers and professionals who work with the financial aspects of the business. These occupations include accountants and auditors, purchasing agents, management analysts, labor relations specialists, and budget, credit, and financial analysts.

**MARKETING AND SALES:** Occupations related to the act or process of buying and selling products and/or services such as sales engineer, retail sales workers and sales representatives including wholesale.

**LEGAL OCCUPATIONS:** In-House Counsel who is charged with providing legal advice and services in regards to legal issues that may arise during the course of standard business practices. This category also includes assistive legal occupations such as paralegals, legal assistants.

**COMPUTER SPECIALISTS:** Professionals responsible for the computer operations within a company are grouped in this category. Examples of job titles in this category include computer programmers, software engineers, database administrators, computer scientists, systems analysts, and computer support specialists

**ARCHITECTURE AND ENGINEERING:** Occupations related to architecture, surveying, engineering, and drafting are included in this category. Some of the job titles in this category include electrical and electronic engineers, surveyors, architects, drafters, mechanical engineers, materials engineers, mapping technicians, and civil engineers.

**OFFICE AND ADMINISTRATIVE SUPPORT:** All clerical-type work is included in this category. These jobs involve the preparing, transcribing, and preserving of written communications and records; collecting accounts; gathering and distributing information; operating office machines and electronic data processing equipment; and distributing mail. Job titles listed in this category include telephone operators, bill and account collectors, customer service representatives, dispatchers, secretaries and administrative assistants, computer operators and clerks (such as payroll, shipping, stock, mail and file).

**BUILDING AND GROUNDS CLEANING AND MAINTENANCE:** This category includes occupations involving landscaping, housekeeping, and janitorial services. Job titles found in this category include supervisors of landscaping or housekeeping, janitors, maids, grounds maintenance workers, and pest control workers.

**CONSTRUCTION AND EXTRACTION:** This category includes construction trades and related occupations. Job titles found in this category include boilermakers, masons (all types), carpenters, construction laborers, electricians, plumbers (and related trades), roofers, sheet metal workers, elevator installers, hazardous materials removal workers, paperhangers, and painters. Paving, surfacing, and tamping equipment operators; drywall and ceiling tile installers; and carpet, floor and tile installers and finishers are also included in this category. First line supervisors, foremen, and helpers in these trades are also grouped in this category.

**INSTALLATION, MAINTENANCE AND REPAIR:** Occupations involving the installation, maintenance, and repair of equipment are included in this group. Examples of job titles found here are heating, ac, and refrigeration mechanics and installers; telecommunication line installers and repairers; heavy vehicle and mobile equipment service technicians and mechanics; small engine mechanics; security and fire alarm systems installers; electric/electronic repair, industrial, utility and transportation equipment; millwrights; riggers; and manufactured building and mobile home installers. First line supervisors, foremen, and helpers for these jobs are also included in the category.

**MATERIAL MOVING WORKERS:** The job titles included in this group are Crane and tower operators; dredge, excavating, and lading machine operators; hoist and winch operators; industrial truck and tractor operators; cleaners of vehicles and equipment; laborers and freight, stock, and material movers, hand; machine feeders and offbearers; packers and packagers, hand; pumping station operators; refuse and recyclable material collectors; and miscellaneous material moving workers.

**PRODUCTION WORKERS:** The job titles included in this category are chemical production machine setters, operators and tenders; crushing/grinding workers; cutting workers; inspectors, testers sorters, samplers, weighers; precious stone/metal workers; painting workers; cementing/gluing machine operators and tenders; etchers/engravers; molders, shapers and casters except for metal and plastic; and production workers.

3) Definition of Racial and Ethnic Terms (as used in Part IV Bidder Employment Information) (Page 3)

<p><b>White</b> (not of Hispanic Origin)-All persons having origins in any of the original peoples of Europe, North Africa, or the Middle East.</p> <p><b>Black</b> (not of Hispanic Origin)-All persons having origins in any of the Black racial groups of Africa.</p> <p><b>Hispanic</b>- All persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.</p>	<p><b>Asian or Pacific Islander</b>- All persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands. This area includes China, India, Japan, Korea, the Philippine Islands, and Samoa.</p> <p><b>American Indian or Alaskan Native</b>- All persons having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.</p>
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**BIDDER CONTRACT COMPLIANCE MONITORING REPORT**

**PART 1 – Bidder Information**

<p>Company Name: AKRF, Inc.                  Street Address: 440 Park Avenue South, 7th Floor                  City &amp; State: New York, NY 10016                  Chief Executive: Karen Franz, PE</p>	<p>Bidder Federal Employer                  Identification Number:                  Or EIN # 13-5331530                  Social Security Number:</p>
<p>Major Business Activity: (brief description)                  Services include civil, geotechnical, and traffic engineering; multimodal transportation planning; acoustics and noise assessments; air quality permitting; cultural, natural, and water resources assessments; economic and real estate analysis; municipal planning; CEQR/SEQRA review; site assessment and remediation; and permitting and compliance.</p>	<p>Bidder Identification                  (response optional/definitions on page 1)</p> <p>-Bidder is a small contractor? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>-Bidder is a minority business enterprise? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>(If yes, check ownership category)</p> <p>Black <input type="checkbox"/> Hispanic <input type="checkbox"/> Asian American <input type="checkbox"/>                  American Indian/Alaskan Native <input type="checkbox"/> Iberian Peninsula <input type="checkbox"/>                  Individual(s) with a Physical Disability <input type="checkbox"/> Female <input type="checkbox"/></p> <p>-Bidder is certified as above by State of CT? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Bidder Parent Company:                  (If any) n/a</p>	
<p>Other Locations in CT:                  (If any) n/a</p>	

**PART II - Bidder Nondiscrimination Policies and Procedures**

<p>1. Does your company have a written Affirmative Action/Equal Employment Opportunity statement posted on company bulletin boards?                  Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p>7. Do all of your company contracts and purchase orders contain non-discrimination statements as required by Sections 4a-60 &amp; 4a-60a Conn. Gen. Stat.? However, we can make sure they do going forward for CT.                  Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>2. Does your company have the state-mandated sexual harassment prevention in the workplace policy posted on company bulletin boards?                  Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p>8. Do you, upon request, provide reasonable accommodation to employees, or applicants for employment, who have physical or mental disability?                  Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>3. Do you notify all recruitment sources in writing of your company's Affirmative Action/Equal Employment Opportunity employment policy? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p>9. Does your company have a mandatory retirement age for all employees?                  Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>4. Do your company advertisements contain a written statement that you are an Affirmative Action/Equal Opportunity Employer?                  Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p>10. If your company has 50 or more employees, have you provided at least two (2) hours of sexual harassment training to all of your supervisors? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/></p>
<p>5. Do you notify the Ct. State Employment Service of all employment openings with your company?                  Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>11. If your company has apprenticeship programs, do they meet the Affirmative Action/Equal Employment Opportunity requirements of the apprenticeship standards of the Ct. Dept. of Labor?                  Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/></p>
<p>6. Does your company have a collective bargaining agreement with workers?                  Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>6a. If yes, do the collective bargaining agreements contain non-discrimination clauses covering all workers? Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>6b. Have you notified each union in writing of your commitments under the nondiscrimination requirements of contracts with the state of CT?                  Yes <input type="checkbox"/> No <input type="checkbox"/></p>	<p>12. Does your company have a written affirmative action Plan?                  Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>If no, please explain.                  We are not a federal contractor.</p> <p>13. Is there a person in your company who is responsible for equal employment opportunity? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>If yes, give name and phone number:                  Jaimee Alfieri (646) 388-9581</p>

1. Will the work of this contract include subcontractors or suppliers? Yes  No

1a. If yes, please list all subcontractors and suppliers and report if they are a small contractor and/or a minority business enterprise. (defined on page 1 / use additional sheet if necessary)

Freeman Companies, LLC, for survey work, MBE firm  
Stantec, Inc. - Electrical Engineering services

1b. Will the work of this contract require additional subcontractors or suppliers other than those identified in 1a. above? Yes  No

**PART IV - Bidder Employment Information**

Date: 2/20/2020

JOB CATEGORY*	OVERALL TOTALS	WHITE (not of Hispanic origin)		BLACK (not of Hispanic origin)		HISPANIC		ASIAN or PACIFIC ISLANDER		AMERICAN INDIAN or ALASKAN NATIVE	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Management	3	1						1	1		
Business & Financial Ops											
Marketing & Sales											
Legal Occupations											
Computer Specialists											
Architecture/Engineering	5	2	1			1			1		
Office & Admin Support											
Bldg/ Grounds Cleaning/Maintenance											
Construction & Extraction											
Installation, Maintenance & Repair											
Material Moving Workers											
Production Occupations											
TOTALS ABOVE	8	3	1			1		1	2		
Total One Year Ago	n/a	n/a	n/a					n/a	n/a		
FORMAL ON THE JOB TRAINEES (ENTER FIGURES FOR THE SAME CATEGORIES AS ARE SHOWN ABOVE)											
Apprentices											
Trainees											

\*NOTE: JOB CATEGORIES CAN BE CHANGED OR ADDED TO (EX. SALES CAN BE ADDED OR REPLACE A CATEGORY NOT USED IN YOUR COMPANY)

**Part IV. Please note this reflects the workforce to be utilized on this contract.**

**PART V - Bidder Hiring and Recruitment Practices**

(Page 5)

1. Which of the following recruitment sources are used by you? (Check yes or no, and report percent used)				2. Check (X) any of the below listed requirements that you use as a hiring qualification  (X)		3. Describe below any other practices or actions that you take which show that you hire, train, and promote employees without discrimination  When a position is open with AKRF we look to get the broadest and most diverse applicant pool possible. We then hire the most qualified person for the role.  Through out an employee's tenure with AKRF, we offer ongoing training and continuing education opportunities so staff can enhance and increase their skillset.  When an employee achieves mastery in their role (in accordance with our Guidelines for Development Plans which is posted on our intranet), they are eligible for promotion.	
SOURCE	YES	NO	% of applicants provided by source				
State Employment Service	<input type="checkbox"/>	<input checked="" type="checkbox"/>		X	Work Experience		
Private Employment Agencies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22.5%	X	Ability to Speak or Write English		
Schools and Colleges	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15.6%		Written Tests		
Newspaper Advertisement	<input type="checkbox"/>	<input checked="" type="checkbox"/>		X	High School Diploma		
Walk Ins	<input type="checkbox"/>	<input checked="" type="checkbox"/>		X	College Degree		
Present Employees	<input checked="" type="checkbox"/>	<input type="checkbox"/>	43%		Union Membership		
Labor Organizations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0	X	Personal Recommendation		
Minority/Community Organizations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0		Height or Weight		
Others (please identify)	<input type="checkbox"/>	<input type="checkbox"/>			Car Ownership		
Online job sites	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18.9%		Arrest Record		
	<input type="checkbox"/>	<input type="checkbox"/>			Wage Garnishments		

Certification (Read this form and check your statements on it CAREFULLY before signing). I certify that the statements made by me on this BIDDER CONTRACT COMPLIANCE MONITORING REPORT are complete and true to the best of my knowledge and belief, and are made in good faith. I understand that if I knowingly make any misstatements of facts, I am subject to be declared in non-compliance with Section 4a-60, 4a-60a, and related sections of the CONN. GEN. STAT.

(Signature) 	(Title) Director of Human Resources	(Date Signed) 	(Telephone) (646) 388-9581
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**Non-Collusion Affidavit**

The undersigned, having been duly sworn, affirms and says that to the best of his/her knowledge and belief:

1. The prices in this Proposal have been arrived at independently without collusion, consultation, communication, or agreement with any other Proposer or with any competitor for the purpose of restricting competition.
2. Unless otherwise required by law, the prices, which have been quoted in this Proposal, have not been knowingly disclosed by the Proposer and will not knowingly be disclosed by the Proposer prior to opening, directly or indirectly, to any other Proposer or to any competitor.
3. No attempt has been made or will be made by the Proposer to induce any other person, partnership or corporation to submit or not to submit a Proposal for the purpose of restricting competition.

Name of Proposer: AKRF, Inc.

By: 

Print Name: Michael Beattie

Title: Vice President

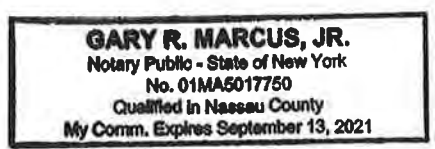
ACKNOWLEDGMENT


STATE OF NEW YORK

COUNTY OF NEW YORK ss. 440 PARK AVE SO., 7TH FL

Date: FEBRUARY 26, 2020

Personally appeared MICHAEL BEATTIE, as VICE PRESIDENT of the above named firm, and attested that the foregoing statements are true and accurate to the best of his/her knowledge and belief.



  
Signature of Notary Public  
My Commission Expires: 9/13/21

EFFECTIVE: 2/24/09



# Request for Taxpayer Identification Number and Certification

Give Form to the requester. Do not send to the IRS.

► Go to [www.irs.gov/FormW9](http://www.irs.gov/FormW9) for instructions and the latest information.

Print or type. See Specific Instructions on page 3.

<b>1</b> Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. <u>AKRF, Inc.</u>	
<b>2</b> Business name/disregarded entity name, if different from above 	
<b>3</b> Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only <b>one</b> of the following seven boxes.  <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input checked="" type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate  <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ► _____ <b>Note:</b> Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is <b>not</b> disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.  <input type="checkbox"/> Other (see instructions) ► _____	<b>4</b> Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):  Exempt payee code (if any) _____  Exemption from FATCA reporting code (if any) _____  <small>(Applies to accounts maintained outside the U.S.)</small>
<b>5</b> Address (number, street, and apt. or suite no.) See instructions. <u>440 Park Avenue South, 7th Floor</u>	Requester's name and address (optional)
<b>6</b> City, state, and ZIP code <u>New York, NY 10016</u>	
<b>7</b> List account number(s) here (optional)	

## Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

**Note:** If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

<b>Social security number</b>										
OR										
<b>Employer identification number</b>										
1	3		5	3	3	1	5	3	0	

## Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

**Certification instructions.** You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

<b>Sign Here</b>	Signature of U.S. person ►	Date ► <u>2-21-2020</u>
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## General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

**Future developments.** For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to [www.irs.gov/FormW9](http://www.irs.gov/FormW9).

### Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

*If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.*





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[www.akrf.com](http://www.akrf.com)