



MARCH 27, 2013

CUMMINGS PARK AND WEST BEACH
MASTER PLAN AND DESIGN SERVICES

RFP. No. 609

City of Stamford

2321 Whitney Avenue| Hamden, CT 06518

Stantec

Stantec

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Hamden, CT 06518
Phone: (203) 281-1350
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March 27, 2013

Ms. Beverly Aveni
Buyer – City of Stamford Purchasing Dept.
888 Washington Boulevard
Stamford, CT 06901

RE: Cummings Park and West Beach Master Plan and Design Services; RFP No. 609

Dear Ms. Aveni,

Cummings Park, West Beach and Cummings Park Marina comprise a popular, multi-purpose and highly active recreation area in the City of Stamford. However, after many years of use, recent storm impacts and flooding, evolving neighborhood and community needs, and the City's desires to provide the highest quality recreation facilities, the park requires immediate upgrades and a short- and long-term strategy for phased improvements. As is common for all parks, planning and capital improvements are necessary to maintain safe and attractive conditions and public enjoyment. As such, Stantec Consulting Services Inc. (Stantec) is pleased to have this opportunity to provide landscape architecture, architecture, engineering, and survey services in response to the City's request for master plan and design services.

Stantec, as prime consultant, will lead our Team that is assembled purposely to meet the array of project needs. Stantec is an award-winning firm recognized for the planning and design of large, urban, waterfront and multi-use recreational facilities. Recent projects include the master plan for Pleasure Beach Park, Bridgeport, CT; Lighthouse Point Park, New Haven, CT; Flowers (City) Park, New Rochelle, NY; Fort Washington Park, New York City; and internationally, the former Sydney Tar Ponds in Sydney, Nova Scotia, where a new 125-acre park is being constructed along Sydney Harbor. Stantec's in-house Team dedicated to Cummings Park, West Beach and Cummings Park Marina are the same professionals who led and participated on our Team on each of these prominent waterfront and recreation area design and reconstruction projects. For the master plan and Phase I priority improvements, Stantec's in-house professionals will provide all planning, landscape architecture, engineering (civil, structural, mechanical, electrical, plumbing), architecture, and project management services.

Our in-house Team is complemented by Connecticut-based professional consultants with whom we have long-established working relationships. They include Huestis Tucker Architects, LLC (HTA) who will lead concept, schematic and design development in collaboration with Stantec's in-house architectural team; Martinez Couch & Associates, LLC (MCA), a State-certified MBE, who will provide requisite survey services; and Roberge Associates Coastal Engineers, LLC (RACE) who will evaluate Cummings Park Marina. HTA brings a modern colonial style that we feel complements the site well;

MCA has performed excellent survey services on our projects in other municipalities; and Stantec and RACE are working on parallel tracks on the phased improvements at Pleasure Beach Park in Bridgeport. RACE also completed design plans and obtained permits for the Cummings Park Pier renovations and bring hands-on knowledge of the marina to our Team. Contact information for our consultants is as follows:

Huestis Tucker Architects, LLC
Mr. Robert Tucker, AIA
15 Research Drive, #5
Woodbridge, CT 06525
(203) 248-1007

Martinez Couch & Associates, LLC (MBE) — Survey Services
Mr. Richard Couch, PE
1084 Cromwell Avenue
Rocky Hill, CT 06067
(860) 436-4364

Roberge Associates Coastal Engineers, LLC
Mr. Devin Santa, PE, SECB
611 Access Road
Stratford, CT O6615
(203) 377-0663

As Senior Principal, I am authorized to commit Stantec to this contract and I am also the point of contact regarding questions and/or clarifications forwarded or requested by the City of Stamford. I also attest that our offer, contained herein, shall remain in effect for 120-days from the due date of the proposal (March 27, 2013).

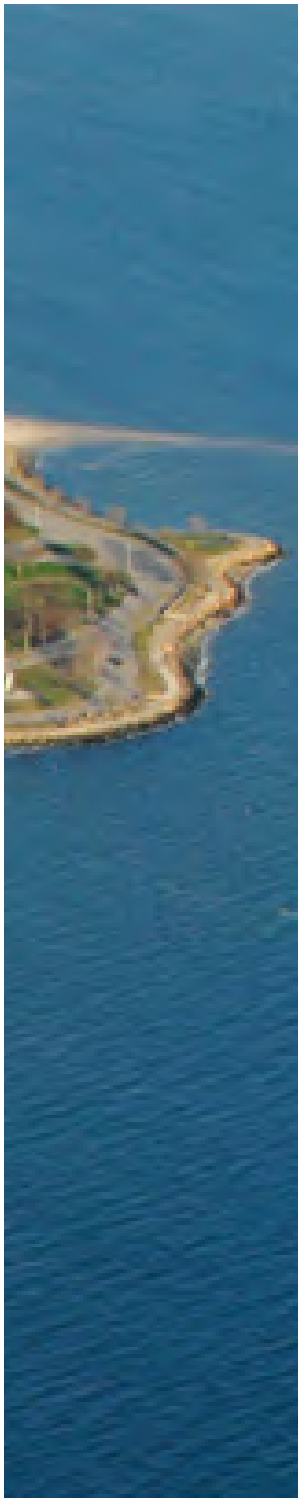
Thank you for your consideration of our qualifications, approach and fee proposal. Should you need any additional information, please do not hesitate to contact me.

Sincerely,

Gary Sorge, FASLA, CSLA, AICP
Senior Principal
Stantec
(203) 281-1350

Table of Contents

Seaside Park, Bridgeport, Connecticut



Project Understanding & Approach

PROJECT APPROACH

The following contains a detailed description of our project approach outlining our vision, action plan and structure to guide short- and long-term improvements to Cummings Park and West Beach. The master plan will establish a blueprint for the City of Stamford and guide future park enhancements to ensure that both parks continue to be attractive, safe and vibrant waterfront amenities for all residents and visitors to enjoy.

Beyond amenities and physical improvements, the plan will guide how the park should be managed with emphasis on sustainability, operations, maintenance and utilization and resiliency. The plan shall include prioritized improvements and those scheduled for full design, bid and construction commencement in 2013.

West Beach and Cummings Park are active and passive recreation areas. Residents, non-residents, leagues and a host of others utilize the popular fields and courts. Others enjoy the beach atmosphere, the playground, the hillsides for winter sledding, the marina and pathways for passive recreation. Our goal is to create a plan that allows all to co-exist so that one play experience does not compromise the other and that the use of the park does not negatively impact the quality of life of neighbors who directly border the park. As our plan for Scalzi Park has accomplished and our vision for Flowers (City) Park has been realized – these are park settings established for all to enjoy. Residents and visitors of all ages, recreational interests and abilities should find enjoyment here. Neighbors should also reap the benefit of having the park next door.

Much hinges on access and circulation, both for neighbors and those already in the park. Specific issues are as follows:

- Access to restrooms is complicated by the lack of convenient pathways.
- Access to the park is very vehicle dependent. Walking and bike paths connecting to neighboring streets are non-existent.
- Internal paths are lacking in areas causing use of roadways for pedestrian circulation.
- Parking along the beachfront, though needed, appears too dominant.

Through planning and design, a host of ideas will be considered to enhance the potential of both parks, improve service to users, and address concerns of neighbors. Disruptive uses within the park may require mitigating elements in the design. Buffering areas of congregation or shifting locations further from park borders will help to achieve this goal and create naturalized buffers is one strategy. A network of connected trail loops will reduce dependency on the automobile, invite more pedestrian neighborhood usage and potentially reduce the need for more parking and impervious surfacing. Synthetic turf options may be viable in select areas, hence, expanding the availability of high performing fields in the City. Also, on a phase by phase basis, reducing the negative visual impact of overhead utilities may be mitigated by placing underground unsightly wires where feasible. Reconstruction of the public marina may provide an opportunity to re-think parking and perhaps reduce the number of vehicle trips now passing along the busy driveways near the beach front promenade in Cummings Park.

SCHEDULE

Stantec will prepare a comprehensive plan for Cummings Park and West Beach within an 18-month duration. Construction Documents for Phase I priority improvements shall be completed in the Fall of 2013.

TASK DESCRIPTIONS

Task 1.0: Conceptual Master Plan Design for Cummings Park and West Beach, Phasing and Cost Estimates for Each Phase

Stantec will prepare a master plan for the combined 105-acre Cummings Park and West Beach. In addition to the Phase I scope (concession and pavilion building, fields 4 and 5 realignment, parking area enhancements, and restroom accessibility upgrades), we will develop an overall strategy for enhancing park circulation, neighborhood access, parking, drainage, storm resiliency, and marina capacity and overall park operations.

The plan shall include an overall illustrative plan accompanied by section-elevations, plan enlargements and support graphics to clearly present the intent of the plan to City representatives, community participants and web-viewers.

Our Team will focus on the site's unique attributes and emphasize connectivity and the interaction between landscape, streetscape, buildings, and programming. Our design framework needs to be flexible and adaptable in recognition of the many stakeholders with whom we will collaborate if we are awarded the project. Th e Comprehensive Plan shall also contain an implementation strategy paying particular attention to how future improvements unfold and shape the overall transformation of Cummings Park and West Beach.

The parks path network has much greater potential than demonstrated here.

The need for parking leads to large expanses of unsightly asphalt directly adjacent to the beaches, shown here at West Beach.

Creating a new conceptual master plan design will involve a series of inter-related steps as follows:

Data Collection and Site Analysis: Our site analysis will include narrative and illustrative plans documenting the following conditions:

- Community context
- Wind patterns
- Noise sources
- Site hydrology
- Geotechnical limitations based on collected and available data
- Existing storm water management systems
- Potential plant list
- Property owners, abutting property owners
- Existing and desirable circulation, parking, and public transit systems
- Buffer areas (existing and needed)
- Water depths based on City bathymetric data
- Building plans (provided by City and supplemented by our field reconnaissance)

Site amenities are worn and in need of updating.

Analysis of Existing Infrastructure: Our analysis shall also include the assessment of the following park features:

- Existing amenities and venues such as natural systems and formations (urban forest and trails system): Our site analysis shall contain a narrative and photo documentation as well as potential active and passive recreation opportunities that may be linked to natural features.

- Analysis of usage and demand on existing infrastructure including current and past major events: The master plan shall include a summary of the capacity of available infrastructure (potable water, electrical services, sanitary, communication and storm water) to support routine activities as well as events. The age and performance of existing infrastructure shall be documented and recommendations to maintain existing, upgrade, replace or add new facilities shall be provided. Infrastructure improvements shall be coordinated with the program plan or the park to ensure that all vital utilities have the capacity to serve peak park usage.

- Review of current park rules and regulations and seasonal permitted uses.

- We will measure the existing buildings and draw them in our 3D CAD program, noting the condition of the structure and building fabric. We will also document the building with digital photographs.

- Review of existing plans and previous public consultations relating to the park property is a vital step in our project approach. It allows our team to hit the ground running and avoid redundant work and escalation of consultant fees.

- Stantec's internal team of environmental specialists will evaluate the existing buildings to determine if any remediation work (asbestos, lead, PCB's, mold) needs to be performed, and will include the cost of a testing lab to perform any sampling and results. Our work shall entail a description of demolition and/or remediation work to be performed, should any be necessary.

Community Consultation Program: Public participation must inform the comprehensive plan in a meaningful way. At the beginning of the planning process, we will involve City staff and key stakeholders to define a program for park improvements. Once we have consensus on a program, our team will prepare concept alternatives. Plan alternatives are then reviewed and critiqued internally and in public forums ultimately leading to the delivery of a preferred alternative.

We will conduct three public forums providing an opportunity for residents to voice their concerns and to influence the plan results in a positive way. Public forums are a key step in the development of the facilities program. Our public forum format shall include a brief presentation by Stantec, break-out group discussion and follow-up summations by each break-out group leader. Stantec shall lead the sessions (introduction, agenda facilitation, purpose, materials) though we will rely on the City to provide the meeting venue, venue maintenance and advertising for meetings. The results of these meetings shall inform our decision-making process and help to finalize the facilities program.

With consensus and understanding of a facilities program, our team will develop alternative concept plans. A program starting point shall include previously identified park needs and key elements of previously prepared park plans. As we develop the facilities program we are mindful of other critical and influential design considerations, such as:

- Connectivity and accessibility
- Sustainability and storm water management
- Year-round activity and visual interest
- Economic stimulus
- Appeal to visitors of all ages and recreation interests
- Event space
- Private sector collaboration
- Maintenance and life-cycle cost

During this important programming phase we will work with the City to define the program for the pavilion/concession building. It is our assumption that it will include public restrooms, changing areas ("cabanas") and an office or control desk area, as well as the kitchen and serving area for the concession stand. Other potential program elements may be first-aid and lifeguard offices, storage, and/or a modest meeting space.

Our outreach strategy shall be supported by our communication strategy. Exhibits and brief narratives shall be made available to the City of Stamford for website posting. This will allow residents and other interested citizens to tune into the master plan's progress. As such, Stantec, via the City's website, may provide review and background information as well as presentation graphics to participants prior to public meetings.

We do not find these efforts to be exhaustive or painful. On the contrary, we find them inspiring, educational, rewarding and often enjoyable. Feedback gleaned enhances the design product, builds public and political support and better positions our collaborative design recommendations for further development. Many perceive community participation as a challenge – as it often is – if you seek to engage a true representative sample of interested stakeholders and the public at large. We approach public communication as an opportunity – an opportunity to create more vibrant and successful plans that embody the spirit and vision of the community. As an example, we aim to engage stakeholders in finalizing the master plan in terms of ecological, passive and active recreation and future economic, educational and marine amenities. Though distinctly different projects, our past performance on the Scalzi Park master plan update and Hatchfield Park design demonstrate our success.

Additional meetings with the City of Stamford will occur in between our three prescribed public outreach sessions.

Paths and trail extension and expansion opportunities in both parks are outstanding.

Proximity to neighbors may require buffering, realignment of back-stops, and better connectivity for pedestrians.

Sustainability: You cannot discuss planning and design without mention of sustainability. What does it mean for the master plan for Cummings Park and West Beach? Stantec will begin by using the Sustainable Sites Initiative and review each topic for relevancy – not to score points or gain certification but to ensure that we are taking a comprehensive look at feasible opportunities that in the long term will benefit the City and residents.

With each topic we will determine what practices are highly likely, likely or not likely to be implemented. This informal exercise will define team and owner expectations and establish the framework for study of site redevelopment concepts.

Sustainability crosses many boundaries, design disciplines and stages of the project. Decisions made during the project planning and design phases greatly influence construction practices. Both design and construction then greatly influence long term sustainability. Our primary goal is to establish performance measures. Key opportunities may include:

- Energy use
- Maximize sourcing of local and/or recycled materials
- Plant material selection
- Pavement systems
- Water conservation
- Storm water management/storm water quality
- Erosion control
- Construction Stage Provisions

Stewardship and Sustainability: Maintenance and operations of parks, open spaces and naturalized landscapes is a daunting task. Even our most successful and well-known public parks face challenges each and every year in supporting full-time and seasonal employees, maintaining equipment, operating facilities and receiving the proper training. Stewardship begins with leadership and partnerships and a community supported revenue stream with reinvestment of this revenue into perpetual park maintenance and continued capital improvements.

Sustainable design reflects the needs of future generations respecting demographics, population densities, environment, culture, economics, public health and related recreational and green space requirements. Achieving sustainability in its many forms presents one of the greatest opportunities in this master plan.

Ballfields at West Beach and Cummings Park are popular and well-used facilities.

Pavilion and Concession Building: Cummings Park has a history of being a significant recreational destination for the residents of Stamford. It provides a variety of opportunities for citizens including sports field, picnic areas, walking trails, and swimming and sunbathing on the beach. The Pavilion in the park had been a focal point of the park. Our intent is to try to recapture this focus and build a structure which functionally meets the needs but makes an architectural statement without dominating the park.

Postcard image of the Pavilion at Cummings Park

There are two competing design criteria which will affect the design of any buildings in the park. These include the need to elevate the buildings in order to keep critical building components out of harm's way. The other is to provide universal access for all residents which would want to keep the buildings as low as possible. In trying to minimally meet the flood criteria, it may create a space on the lower floor that is only six feet high and therefore we would propose elevating the structure further to provide useful space on the lower floor.

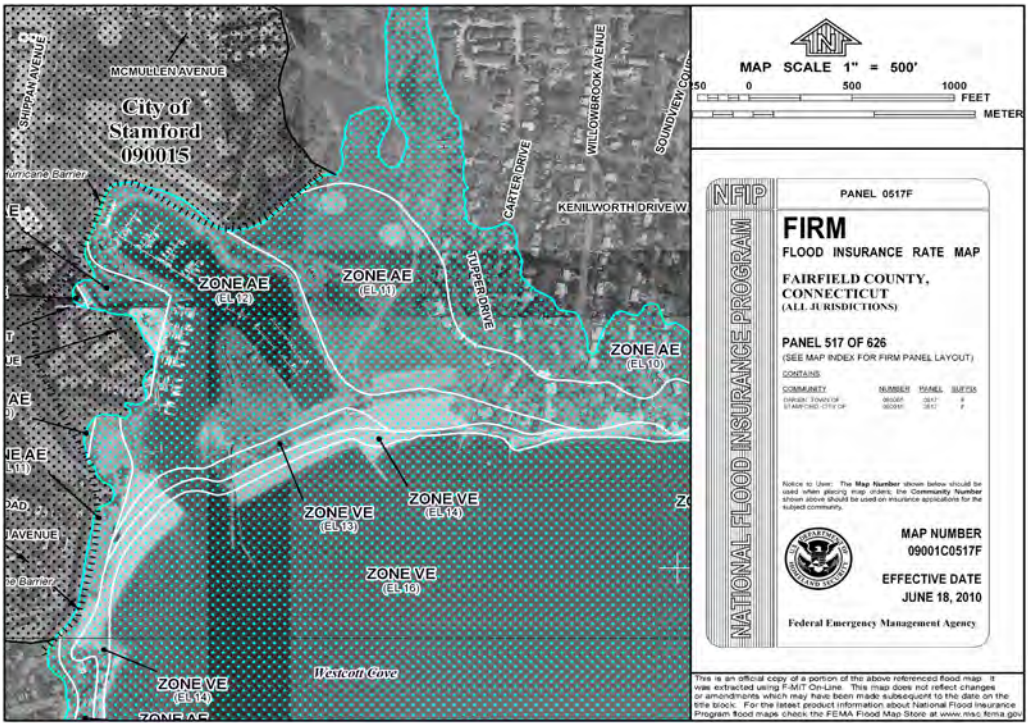
Building Siting: The first step in our design process will be an analysis of all the factors that influence the location of these two program elements. Our approach to this project would start with a site analysis of the beach area. From initial review of the existing conditions, it leads us to believe that the separation of the Pavilion and the Concession Stand has both advantages and disadvantages. Some advantages are:

- It provides two distinct, separated locations for restrooms on the beach which would reduce congestion at one location.
- It helps to distribute the parking of vehicles more evenly.
- The pavilion may be able to be reused and renovated with the addition of a ramp. The concession stand could then be rebuilt as new and raised to current flood levels.

Some disadvantages are:

- There are two sets of restrooms and buildings to maintain.
- The concession stand may not be obvious to the first time visitor, and therefore it might get a less business from beachgoers who park at the east end of the lot or patrons who use other parts of the park.
- With the new flood zone regulations, putting them together would also save money on construction cost, as they will be able to share the cost of pilings, ramps, building utilities, etc.

Much of the park is within the AE flood zone and portions of the beach are in the V zone. The pavilion appears to straddle these two zones. There may be some advantage in shifting the structure slightly to the east to be entirely within the AE zone. However, with the rising sea level and changing flood zones, it would be advantageous to design the structure as if entirely in the V zone.



Flood Map of Site

The new combined building (or the new concession stand), since it has to be raised at least 6 feet above the existing grade, should be raised enough to create a shady area below, much as the pavilion does now. The raised concession stand will need a raised outdoor eating space, or deck, so that customers can enjoy their purchase without having to go back downstairs. In the case of a combined building, this would mean a very large raised area, and a very large covered area below, so making that space below attractive and inviting will be an important factor in the design. The other major factor will be accessibility, and we expect that ramps will need to be designed into the project that will feel integral to the building, and will also add an element of fun for the users. We also feel strongly that any new building located at the traffic circle needs to be able to serve as an iconic element within the park. The building should be an attractive and inviting testament to the revitalized park – one that perhaps conjures a bit of historic coastal and civic architecture yet equipped with modern amenities and equipment.

Southeast Federal Center, Washington, DC envisioned by Stantec

Precedents and Materials:

The City of Stamford, as part of the Cummings Park and West Beach Master Plan project, intends to replace the current Beach Pavilion and Concession Stand. The preferred option is to combine the two uses into one new building, located where the pavilion currently stands. Other buildings in Cummings Park include restrooms near the basketball courts, which need ADA upgrades, and the marina building, for which no work is included in this proposal.

The condition and value of the existing pavilion is certainly questionable but one element is particularly successful and should be carried through to this next phase of design – the structures transparency. The existing building allows park visitors at ground level to have open views of Long Island Sound with minimal blockage by the structure. Elevating the structure, required in flood zones regardless, provides an opportunity to maintain transparency and views to the beach and the water. Accessibility to upper levels presents a challenge and it is our intent to study a walkway or concept that is iconic, multi-functional, fully accessible without feeling institutional and cost effective. More on our approach follows.

Master Plan Concepts: Based on a refined facilities program, Stantec shall prepare diagrammatic plan alternatives depicting spatial relationships between access points, circulation routes, structures, and active and passive recreation facilities. At this point, the focus is on physical form, programmatic relationships and optimizing use, performance and maintenance. Plans shall be clear and concise as well as descriptive of the plan components and the impact on existing park features. Illustrative plans, maps, sketches, photo montages and/or aerial perspectives shall be used to convey concepts and spatial relationships. Key steps in the development of our concept alternatives include:

- Background research and site analysis as defined previously, herein
- Base plan preparation
- Finalization of a park improvement program with stakeholder and community outreach
- Preparation of three (3) alternative design concepts followed by stakeholder and community outreach (see further description, below)
- Preparation of concept level opinion of probable construction cost
- Preparation of a preferred concept plan followed by stakeholder and community outreach
- Preparation of regulatory framework and timeline for reviews and approvals
- Preparation of a storm water drainage plan
- Preparation of a utility service plan
- Preparation of a plant list of desired species
- Preparation of site design guidelines for amenities (seating, lighting, surfaces, fences, etc.) to inform phased implementation
- Develop an accelerated schematic design plan for Phase I priority projects

Alternative Design Concepts: Concept studies shall evolve from our previously prepared site analysis and the desired program of new facilities. Stantec will prepare multiple concepts in sketch plan form and present to the City of Stamford. Following review, three alternatives shall be prepared and presented in rendered form with support graphics to project stakeholders in our first public forum. Following presentation and comment, a final preferred alternative will be developed and a follow up public, stakeholder and community meeting will be held.

The preferred concept plan shall be accompanied by opinion of probable construction cost, a phasing strategy, a narrative and graphic presentation, an overlay illustrating low-impact design strategies and a narrative summarizing goals and objectives and impact of the final plan. Previous steps lead to this important milestone in the preparation of the master plan. The concept level plans may include paths and trails, a beach promenade, picnic areas, courts and field alignments, circulation and parking improvements, neighborhood connectivity and support structures such as pavilions and restrooms. The plans shall respond to the desired program and environmental, regulatory and access conditions previously documented by the City of Stamford and previous and concurrent studies.

The preferred concept plan shall be reviewed with the City of Stamford and project stakeholders and will ultimately comprise the final concept plan contained in the overall parks' master plan.

Comprehensive Management Plan for the Park: Stantec's public park design approach always takes into account the short- and long-range management of the built design. As an example, for newly created greenways, parking facilities and athletic fields our design decisions are shaped by the owner's ability to maintain them. Stantec will provide site management guidelines to the City of Stamford.

The contents of a long-range site management plan may include but not be limited to the following:

- Warranty file of any new constructed amenities and/or equipment
- Turf field maintenance guidelines
- Pavement system (porous pavement systems) maintenance
- Urban forest management guidelines
- Storm water control (water quality structure maintenance requirements)
- Water course/channel maintenance guidelines

Resources Requirements Including Lifecycle Planning on Major Infrastructure: Our site management plan shall identify the most viable infrastructure systems for the long-term function of Cummings Park and West Beach. Our goal is to address multiple functions with each improvement and to propose storm water, utility and pavement systems that are durable, appropriate for park settings and relatively easy to monitor and maintain. For storm water conveyance we need to understand site percolation rates. For utility services we need to understand the capacity of existing systems and determine the feasibility and viability of upgrades and/or expansion. For pavement systems we aim to reduce impervious surface, but to do so we need to understand use patterns, maintenance tolerance and subgrade percolation rates. The aforementioned items represent examples and we are prepared to unveil advantages and efficiencies that may be gained by integrated systems.

Recommendations on Major Event Management: Events such as concerts, sporting events, fairs, markets and a host of other large group gatherings are an extraordinary opportunity to promote the community and park offerings as well as a mechanism to generate revenue that may support maintenance and operations of the park for a significant period of time. However, events must be planned for in advance to ensure that they do not have long-term and expensive impacts that compromise enjoyment of the park on all other days.

Key considerations are as follows:

- Access control for pedestrians, vehicles, buses (revenue collection, way-finding, landscape protection)
- Event parking including off-site facilities and transport
- Staging areas
- Stage and performer areas
- Event power sources
- Water service
- Restrooms
- Emergency access
- Lighting (permanent and temporary)
- Concessionaire assembly
- Temporary tent or tensile structure tie-downs

Recommendations on Future Park Development Including Capital Project Priorities and Design Guidelines for Amenities: Our approach outlines how we come to prepare recommendations for future park development: Data collection and review; site analysis; stakeholder and community engagement; definition of a facilities program; a site management plan; and, finally, a concept plan that consolidates all recommendations. Stantec shall also prepare design guidelines that will define a range of amenity choices for use in the park. Amenities, such as benches, bicycle racks, trash receptacles, lamp posts, fences, signage, gates and drinking fountains, represent a significant inventory and our profiles will ensure that materials selections are always complementary and add functional and aesthetic value to Cummings Park and West Beach. Guidelines facilitate the ease of decision making, maintain consistency and, to the extent desired, help support local vendors for manufacturer and supply.

During this phase and concurrent with other project phases, Stantec shall meet with City representatives to review design and development goals. Twelve (12) meetings will be held over a 12 month duration. Stantec shall also lead presentations of the master plan to the Parks and Recreation Commission and the Board of Representatives (two (2) separate meetings).

Accessibility upgrades are in order for the play and tennis area restrooms.

Task 2.0: A-2 Survey of the Phase 1 Area and Cummings Park Softball Fields 4 and 5 – "Phase IA"

Survey services for the priority Phase I project area shall include the following items:

- Research for existing mapping, monuments, benchmarks, GIS data and datum: Our team will research City and State of Connecticut documents to obtain monuments and benchmarks with published data.
- Recover benchmarks and local monuments: Our team will recover monuments and benchmarks in the fields and set new control points on the site. A network of control points will be established. The survey will be performed using GPS and traditional methods.
- The survey will conform to "Minimum Standards for Surveys and Maps in the State of Connecticut", prepared and adopted September 26, 1996.

Survey Criteria are as follows:

- The Topographic survey will conform to the criteria, as detailed in the Addendum No. 2, specifically as follows:
  - Locate and map wetland flags and water bodies (flagging performed by Stantec).
  - Locate all street furniture, trees (greater than 6 inches) and any features etc. within the survey limit area.
  - Provide 1 foot contours on the plan.
  - Provide a minimum of spot elevations on the plan, including high and low points.
  - Locate all existing features with elevations including but not limited to structures, edges of loop road, pavement, curbs, guide rails, walls, fences, etc.
  - Locate and show all existing utilities, overhead and underground (utility poles, light poles, electric and water, sewer, drainage etc.) and show on plan.
  - Show all sanitary and drainage sewer structures, pipes with sizes and inverts.
  - Show property lines as approximate, based on available record information.
  - Show all adjoining property owners and house numbers on plan.
  - Survey shall conform to Horizontal Accuracy Class A-2, Vertical Accuracy Class V-2 and Topographic Accuracy T-2.
  - Provide plan at 1" = 30'. Provide an orientation at 1" = 800'.
  - Show two (2) Benchmarks on the plan using NAVD-88 vertical datum for the project.
  - Final product to be presented on a 24"x36" mylar, using the City of Stamford Standard border, signed and seal by a Registered Land Surveyor from the State of Connecticut. Also, the final product shall be presented in AutoCAD 2004 and 2010 format on CD.
  - Show limit of flood hazard zone, Connecticut Jurisdiction Line, mean high water line, and high tide line.

Roads, drainage swales and the lack of bike and pedestrian paths need to be studied and re-worked in key areas.

Task 3.0: A-2 Survey of Cummings Park and West Beach (including Phase I and IA)

The City of Stamford will direct the selected consultant team regarding the need and extent of survey work to be performed. The City may elect to survey just the Phase I priority project area (see Task 2.0, above) or the entire project area inclusive of Phase I (Task 3.0). The scope of services defined in Task 2.0 applies to Task 3.0; only the limits of work change, as stipulated in Addendum No. 2 issued by the City of Stamford on March 8, 2013.

Task 4.0: Planning Study of Drainage for Both Parks

We need to identify persistent and less frequent drainage problems that hamper access to and use of the park. We have experienced flooding where access by vehicle to the waterfront is truncated. We will evaluate the existing drainage infrastructure including location, capacity and condition of storm catch basins and pipes and the influence of tidal changes on the capacity of the park to drain. We also need to understand current and seasonal ground water levels, percolation rates of soils at key locations throughout the park and regulatory criteria that shape how and where storm water may be discharged.

For the purposes of this proposal, and as directed in Addendum No. 2, it is assumed that a topographic survey and existing conditions base mapping has or will be prepared for both parks. Available drainage and GIS mapping will be obtained from the City as well. From this information, the existing tributary areas will be determined to the various drainage structures and discharge points. Flows will be computed using TR-55 for the 10, 25, 50 and 100 year design storms. Based on City of Stamford drainage standards, recommendations will be included in the report for additional drainage structures and piping network. The report will contain recommendations for storm water treatment to reduce the amount of runoff and pollutants levels discharging to outfalls. Our recommendations may include but not be limited to:

- The reduction in the amount of pavement
- Changes in pavement types to allow for greater infiltration
- Green infrastructure controls such as infiltration trenches and rain gardens
- Subsurface detention chambers
- Grit chambers
- Catch basin filters and hoods

The FEMA flood maps and tidal fluctuations will be reviewed to understand their impact on the functioning of the drainage systems for each park. The need and type of tide gates to control tidal water from entering the drainage system will be determined. The report will contain a narrative describing existing conditions, design parameters and approach. It will make recommendations for the drainage system in both parks. Maps depicting the tributary areas and system improvements will be included. Any calculations performed for the study will be contained in the report appendix. This report will be the basis for future design work in the park.

Task 5.0: Construction Documents for Pavilion, Concession Building, and all Phase I Renovations

Preparation of construction documents for Phase I will commence while the overall park master plan is in progress. Improvements for Phase I are well-defined and include:

- Design for a combined concession and pavilion building in place of the two independent structures that currently exist on site.
- Accessibility and modest aesthetic enhancements to the existing restroom and maintenance building near the existing tennis courts.
- Realignment of sports fields 4 and 5 to position backstops back-to-back, to eliminate overlap in outfield areas, increase distance of backstop areas to neighboring properties and to optimize placement of new athletic field lights should the City decide to add lights to the fields in the future.
- Parking area enhancements in along the Cummings park promenade and extending up between the channel and public marina.

Submittals will take place at the following milestones:

Schematic Design: To commence schematic design for Phase I, the site survey should be in hand. At the initial stages of schematic design we will also obtain geotechnical and test pit data in the vicinity of new proposed buildings and in fields 4 and 5.

Schematic Design Plans shall comprise 15% complete plans, details and outline specifications. Plans and specifications shall address custom items at this point accompanied by a listing of all intended items. An opinion of probable construction cost shall also be provided.

For building design we will research all pertinent building and local zoning codes prior to starting design. We will then provide plans, elevations and 3D CAD perspectives of at least three different schemes to the City for review, and for presentation at a public meeting (public forum 4 to allow accelerated schedule for building and Phase I design). After public review and comment we will make any necessary adjustments and create a final Schematic Design to be approved by the City. The final Schematic will include an opinion of probable construction cost.

Soil borings will be taken at proposed structure locations during the schematic phase of design. There will be four borings taken at each building site. They will be taken to a minimum depth of 20 feet. It is assumed that new structures will be pile supported. An investigation report will be prepared by a licensed engineer who has observed the work.

In addition, four (4) shallow test pits total shall be excavated and inspected in the areas of the parking areas to be paved and in Fields 4 and 5.

Design Development: Design Development Plans will comprise 30% complete plans, details and specifications. An opinion of probable construction cost will also be provided.

We will make material selections for both interior and exterior and will revise the cost estimate to reflect the selections made. Stantec's structural and building systems engineers will generate requisite plans and update our opinion of probable construction cost accordingly.

Preliminary Design Documents: Preliminary Design Documents will comprise 60% complete plans, details and specifications. An opinion of probable construction cost will also be provided.

We will prepare a full set of construction drawings at preliminary design including plans, elevations, sections, interior elevations and details. We will also provide specifications in CSI format with all pertinent materials and quality standards specified.

Pre-Final Construction Documents: Pre-final Construction Documents will comprise 90% complete plans, details and specifications. An opinion of probable construction cost will also be provided.

We will prepare a full set of construction drawings at pre-final design including plans, elevations, sections, interior elevations and details. We will also provide specifications in CSI format with all pertinent materials and quality standards specified.

Final Construction Documents: Final Construction Documents will comprise 100% complete plans, elevations, sections, interior elevations, details and specifications. We will also provide specifications in CSI format with all pertinent materials and quality standards specified. All requisite design calculations for storm and sanitary systems will be provided. Detailed plans for vertical and horizontal controls will be provided. An opinion of probable construction cost will also be provided. Construction documents will be prepared in AutoCad Release 14, or higher.

The existing pavilion provides open views to the shore at ground level.

Permits and Approvals: We will present the project to zoning boards or other town bodies with jurisdiction over the project. The Stantec Team will complete the necessary technical documentation and plan exhibits for the purpose of obtaining permits.

The following permits, approvals or reviews are anticipated for this assignment:

- Coastal Site Plan Review – Zoning Board: Cummings Park is within the coastal boundary and therefore would require the completion of a Coastal Area Management (CAM) application for the project which is administered locally by the Zoning Board. This process involves evaluating the proposed activities and construction in relation to the Connecticut Coastal Management Manual.

- Stamford Environmental Protection Board: The park is within both the AE and V flood zones and therefore would require review by the City of Stamford Environmental Protection Board. The plans will need to demonstrate that the buildings meet flood zone construction requirements including flood resistant construction and finished floors elevations.

The existing concession occupies a desirable vantage point in the park.

- Storm water and Dewatering Wastewater Associated with Construction Activities: The proposed construction activities will require the preparation of this registration. Depending on the area of disturbance, it may also require a more detailed storm water protection plan.

- Office of Long Island Sound Programs and US Army Corps of Engineers Permits: It is assumed that the Phase I construction will be landward of the Coastal Jurisdiction Limit and therefore not required except as they may relate to Coastal Site Plan Review.

A request for State of Connecticut, Department of Energy and Environmental Protection, (CTDEEP) NDDB review will be submitted by Stantec.

Task 6.0: Construction Documents for Restroom Building

The restroom renovations will include upgrades to achieve compliance for accessibility. Specific items include:

- Modification to the entry door as required to conform to approach requirements.
- Upgrade of the entry door hardware as required to provide a compliant threshold and door opening force.
- Locating the toilet partitions to provide for the required clearances.
- Locating fixtures and accessories for compliant reach and operation.
- Modifying the layout to provide for the required fixture clearances and maneuvering space.
- Providing a slip resistant floor surface.

The production of design and construction documents shall be consistent with Task 5.0, with deliverables at schematic, design development, preliminary, pre-final and final design.

Task 7.0: Construction Documents for Realignment of Softball Fields and Lighting

The production of design and construction documents shall be consistent with Task 5.0, with deliverables at schematic, design development, preliminary, pre-final and final design. Realignment of the fields will require the following plan and detail drawings:

- Detailed survey (Phase IA)
- Removals plan
- Layout, materials and landscape plan
- Grading and drainage plan
- Irrigation plan
- Utility plan including electrical connections and location for athletic field lighting
- Site details

Greater buffer area to neighboring properties, moving backstops away from the park perimeter, providing access to maintenance equipment storage and improved access to restrooms and provisions for new lights now or in a later phase are design considerations.

Task 8.0: Planning Study for Beach Reinforcement and Resiliency

The beach systems at Cummings Park and West Beach consist of gently sloping pocket beaches comprised of generally fine to coarse quartz sands. These beaches are highly influenced by anthropogenic activities, including but not necessarily limited to: Periodic artificial nourishment; interruption of the natural littoral mechanisms by the harbor jetty and the groin structures that are located both to the east of Cummings Park and to the west of West Beach; dredging of the entrance channel; and upland activities at the parks. Any remnant dune systems at these sites were long ago removed or destroyed as part of the recreational development. The beach systems are subject to episodic erosion most notably during hurricane and nor'easter events and were highly impacted by both Storms Irene in 2011 and Sandy in 2012.

The existing beaches are subject to erosion and transformation, predominantly under the influence of waves, and to a lesser extent tidally induced currents. Beach stability is directly linked to the intensity of waves that impact the site(s), to the direction from which the waves approach the site(s), and to the size and character of the sand materials that are on the beach. The only natural source of sand material at these sites is found in the extensive bar systems that are located offshore of these sites. This material on these shoals is typically fine sand and not ideal for use as beach nourishment material. Materials dredged from the entrance channel do not represent a potential source for beach nourishment, though the size and quality of the sand would have to be assessed.

The Stantec Project Team, complemented with site specific knowledge and extensive beach and dune design expertise ,provided by Roberge Associates Coastal Engineers, LLC ("RACE"), will assess and quantify the littoral environment as a means to assess the resiliency of the beach systems. Wave height and period, frequency of wave attack, and predominant direct of wave attack will be developed from wind data that is available for Stamford, CT. In addition, the Team will take samples of the beach sand to quantify the size distribution of those materials.

The Stantec Team will develop several alternatives for beach improvement, based upon the detailed knowledge developed as a part of the site specific studies. The following sections describe the anticipated services that will be provided as a part of this Task.

View to West Beach from Cummings Park; it's close by but difficult to get to by foot.

Cummings Park Marina in damaged condition following Sandy in 2012.

Task 8.1: Site Investigations

The Stantec Team will review existing mapping, including topographic data of Cummings Park Beach and West Beach. This historic mapping will be supplemented with measurements, performed by the Team, of the beach slopes at both sites. The slopes will be characterized offshore to a depth that represents the breaking depth of the largest wave that could impact the site. Typically, this would extend to the approximate -12-ft (MLLW) contour so as to characterize the complete range of wind generated waves that can be expected to impact this site. In addition, the Team will collect sand samples from four (4) locations on each beach site and perform size gradation analyses of each sample. Sand gradation is indicative of wave energy levels that characterize the site. This information is critical to beach stability modeling that will be performed as a part of the Beach Stability Assessment Task.

Task 8.2: Beach Stability Assessment

The Project Team will employ standard coastal engineering model applications to characterize the wave climate at the site(s). It is anticipated that the wave generation and transformation applications, as well as the beach stability analysis applications, in the US Army Corps of Engineers, Coastal Engineering Design and Analysis System (CEDAS) will be employed to efficiently characterize the site(s) and to evaluate various alternatives for beach fills, beach nourishment, dune construction, and related beach improvements. The primary tools within the CEDAS toolbox that will be utilized include the Automated Coastal Engineering System (ACES), Ver. 1.07e for characterization of the deepwater wave conditions. These waves will be transformed using complementary software tools, including but not necessarily limited to STWAVE model, to quantify the effects of wave refraction. The model GENESIS will then be used to ultimately simulate shoreline changes.

Task 8.3: Development of Beach Improvement Schemes

Utilizing the information gathered as a part of Task 8.1 and the stability assessment prepared under Task 8.2, the Team will prepare a series of alternative beach improvements that will be further assessed using the CEDAS computer applications. The conceptual improvement schemes will include:

- Beach nourishment using an upland source of sand with optimum gradation so as to maximize stability;
- Beach nourishment utilizing coarse sand as a stable underlayment and supplementing the coarse sand base with a fine sand during the beach season;
- Construction of artificial “dune” stockpiles of various sand gradations for use following storm induced or other episodic beach erosion events;
- Construction of offshore feeder bars, using imported sand or dredged materials, as near-shore underwater stockpiles of beach material that will migrate to the beach face under normal wave and tidal conditions.

These and other schemes will be evaluated to determine their effectiveness and longevity. An opinion of probable cost (OPC), including annual and/or periodic maintenance costs will be developed for each of the schemes.

Task 8.4: Concept Review with Regulatory Agencies

A recommended beach improvement scheme will be developed and schematic drawings, indicating material source(s), gradation, placement location(s) and methodologies, typical sections, and related specifications will be prepared. The Team will attend a meeting with the CTDEEP, Office of Long Island Sound Programs (OLISP) to discuss the concept alternatives and the recommended beach improvements based upon the findings of the field investigations and assessment of the conceptual scheme(s), the Team will review project objectives and statutory requirements.

The objective of this meeting is to determine the specific statutory requirements and potential restrictions which may be imposed upon any elements of the project and to assess the site resource restrictions which could be imposed on any implemented improvements.

Task 8.5: Prepare Recommended Concept Plan

The Stantec Team will prepare a Recommended Concept Plan, including concept drawing showing the beach improvements and related specifications. These concept drawings will be prepared in 24" x 36" format and will not be sufficient for construction.

Task 8.6: Task Report

The Stantec Team will prepare a Final Report of Findings and present those findings to the City for their use in fiscal and physical planning. The Team will meet with representatives of the City to discuss our findings.

Task 9.0: Cummings Marina Concept Plan

The Stantec Project Team, utilizing the site specific knowledge and marina facility evaluation and design expertise provided by RACE, will use the existing basin data prepared by RACE, past studies performed by other consultants, and the City of Stamford to develop marina concept plans for consideration and approval. Limited site investigations will be performed during this phase. The basis for the concept development will be a current vessel population assessment of all of the public marina facilities in Stamford.

Task 9.1: Site Investigations

The Stantec Team will review existing mapping, including hydrographic data of the Cummings Marina Basin, prepared by RACE as part of the 2003 dredging project, as well as current hydrographic studies and mapping to identify potential areas for expansion and improvement to the existing facilities. It is anticipated that the City of Stamford will provide the Team with mapping showing boundary lines, structure locations, topography, easements, utilities, and related information for the facility unless our team is retained for park survey services. In the event that mapping and site data is not available, it shall be the responsibility of the City of Stamford to obtain that information and provide it to the Team.

Fundamental to the development of any marina improvement plan is a current condition hydrographic survey. The City will provide a current hydrographic survey of the Cummings Marina and approach channels.

In addition, the Team will conduct a field assessment of the Cummings Marina facility and appurtenant areas such as the entrance channel, boat ramp, existing piers, potential areas for expansion, and related sites. This field assessment and the site specific mapping will be used as a basis for development of improved facility layouts to be developed under subsequent tasks.

Task 9.2: Preparation of Conceptual Facility Improvement Schemes

Utilizing the information gathered as a part of the proposed Task 9.1 activities, the Team will prepare a basic Marina Plan of the proposed facility site, showing existing structure locations, regulatory boundaries, relevant topography and other information which can be used for planning and regulatory applications.

The Concept Plans will be developed to show the location of reconfigured and supplementary new floats; relocation or improvement of floating docks, possible navigation restrictions; existing parking areas and public roadway access positions, and related information. It is anticipated that up to four (4) concepts may be developed. These Concept Plans will be provided to the City of Stamford representatives for their evaluation of the feasibility of each scheme.

Our Team will meet with representatives of the City of Stamford, including the Harbor Management Commission, Land Use Bureau, City Engineering, and others, to discuss and evaluate the various concept alternatives.

The Evaluation criteria will include, but not necessarily be limited to: optimization of the floating dock system to a larger vessel size, relative potential for regulatory approval; ability to utilize existing infrastructure; maximization of berthing capacity; costs for the potential improvements; universal access for Stamford residents and other facility users; future maintenance costs; parking impacts and optimization; navigation constraints; current use; and related site specific issues.

The objective of this task is to identify a preferred concept for development. A basic scheme will be selected. Modifications and improvements, identified by the joint evaluation team, will be identified and incorporated into the Proposed Design to be prepared under the subsequent design task.

Task 9.3: Review With Regulatory Agencies

Using the Proposed Design, the Team will attend one (1) meeting with the CTDEEP, Office of Long Island Sound Programs to discuss the Proposed Design. The Team will review project objectives and statutory requirements. The objective of this meeting is to determine the specific statutory requirements and potential restrictions which may be imposed upon any elements of the project and to assess the site resource restrictions which could be problematic.

Task 9.4: Prepare Recommended Proposed Plan

The Stantec Team will advance the Proposed Plan, including showing the marina improvements, recommended parking areas, marina access and gangway locations, service buildings, and related recommended infrastructure. These drawings will be prepared in 24" x 36" format and will not be sufficient for construction but will be the basis for following efforts.

Task 9.5: Financial Viability Study

The Stantec Team will prepare an Opinion of Probable Cost (OPC) using historical unit costs and site specific labor and materials cost data for the Proposed Design. Marina operating costs will be developed based upon anticipated staffing requirements, historical maintenance costs, and related operating costs. The OPC and operating and maintenance cost data will be compared to the anticipated facility utilization and the boat fee schedule to determine the economic viability of the improvements. Specific recommendations will include an estimate on the return of the investment (Pay-back), and assessment of the fee schedule and possible modifications as may be required, revision of the Proposed Design, staging or prioritizing site improvements, and related analyses.

Task 9.6: Task Report

The Stantec Team will prepare a Proposed Marina Design Report of Findings and present those findings to the City for their use in fiscal and physical planning. The Team will meet with representatives of the City to discuss the findings.

Task 10.0: Cummings Marina Evaluation

The Stantec Team will perform an evaluation of the Cummings Marina facilities utilizing existing studies and supplementing those studies with additional analyses. It is anticipated that the City will provide historic and current hydrographic surveys and other relevant studies of the marina basin. The Team expects that site specific geotechnical investigations will be required to properly assess the float anchor piles and pier foundation piles. The following paragraphs describe the anticipated scope of work for this Task.

Task 10.1: Site Investigations

The Stantec Team will review existing mapping, including hydrographic data of the Cummings Marina prepared by RACE as part of the 2003 dredging project as well as current surveys of the facility, to identify potential dredging requirements. It is anticipated that the City of Stamford will provide mapping showing boundary lines, structure locations, topography, easements, utilities, and related information for the facility. In the event that mapping and site data is not available, it shall be the responsibility of the City of Stamford to obtain that information and provide it to the Team. The City of Stamford shall provide current bathymetric survey of the marina location. The Team will conduct a field assessment of the Cummings Marina facilities to assess the conditions of the existing floating docks, piers, gangways and timber piles. This assessment will include verification of structure dimensions, identification of utility locations, types (electrical service, water, CATV, etc.), quantities, condition, and related site information. These field investigations will also include an assessment of critical coastal resources, such as tidal wetlands, intertidal flats, Special Flood Hazard Areas (SFHA), and related site issues that may influence design, regulatory review and approval, and construction.

Roads connecting to neighboring streets favor vehicles, not cyclists or pedestrians.

Task 10.2: Dock Facility Evaluation

Based upon the field investigations to be performed, the Team will evaluate and make recommendations for repairs and/or replacement of the dock systems, including, but not necessarily limited to the floating docks, gangways and landings, access piers, timber anchor and foundation piles, and the perimeter shoreline protection structures. Specific observations will include verification of structure dimensions and a visual assessment of the conditions of each structure.

Assessment of the floating docks will include the flotation components (billets, pods, etc.), the dock hardware, timber frames and deck boards, pile guides, and the timber anchor piles. All observed damage and deterioration will be identified. Areas of specific structural compromise will be further noted. All timber piles will be identified by a distinct number and located on a Marina Plan. The top elevation of each timber anchor pile will be estimated to assess the capacity to retain the floating docks during extreme tidal and storm events. The evaluation will identify the Team's specific recommendation for repair or replacement.

The existing timber access piers and gangway systems will be assessed. Observed damage and deterioration will be noted and any observed structural deficiencies will be quantified (ex: % section loss; deck boards cracked, checked, broken; guard systems not code compliant; etc.). Additionally, an assessment as to their compliance with ADA requirements for marinas will be performed. As noted above, the evaluation will identify the Team's specific recommendation for repair or replacement. The perimeter shoreline of the Cummings Marina includes a variety of structural measures for stabilization. These include, predominantly, sloping stone revetment and vertical timber bulkheads. There is evidence of tidal wetland growth along limited sections of the shoreline. The extent and location of the structures, as well as the observed wetlands and other coastal resources will be identified and included on a Site Plan of the area. The conditions of these structures and the resources will be noted and photographically documented.

The evaluation criteria will include, but not necessarily be limited to: optimization of the floating dock system to a larger vessel size, relative potential for regulatory approval; ability to utilize existing infrastructure; maximization of berthing capacity; costs for the potential improvements; universal access for Stamford residents and other facility users; future maintenance costs; parking impacts and optimization; navigation constraints; current use; and related site specific issues.

Task 10.3: Electric Service Assessment

The current marina facility includes limited utility availability. There are no permanent electrical or service water connections available to the berths at this facility. In general, small recreational vessels do not require shore power. Service water is convenient for washing of decks and related house cleaning activities, though the discharge of wash water, contaminated with marine growth or waste, is strictly prohibited by State statute. Power is available at the marina service building. A part of the facility assessment will be to determine the service capacity and characteristics.

Marina improvements and/or reconfiguration will consider the addition of berthing for larger vessels. Such vessels ordinarily require 30Amp to 50Amp electrical service as well as potable water. The Stantec Team will assess the potential for enlarged berths and the need for utility upgrades to service the anticipated larger vessels. This assessment will include sizing of the service requirements, identification of infrastructure requirements on the floating docks (i.e. conduits, power pedestals, water service, etc.), and related support requirements including cost implications and fee structure.

Task 10.4: Dredging Assessment

The City of Stamford has maintained a program for maintenance dredging of the Cummings Marina basin. The historical pre- and post-dredge hydrographic surveys of the facility, including the most recent condition survey, will be used by the Team to assess the current extent and magnitude of shoaling within the Cummings Marina basin.

Past dredging has been performed to previously approved depths. These will be compared with the current condition hydrographic survey described under Task 9. The dredging assessment will include the computation of dredging volumes required to maintain those depths as well as potential dredging volumes that would be required for deepening and/or enlarging the basin to accommodate deeper draft vessels or enlarging the berthing facilities.

As noted, the site may include coastal resources that could have significant influence on the extent of dredging that is normally allowed. Maintenance of the existing footprint and depths is likely to be readily authorized by the regulatory agencies, i.e. CTDEEP, OLISP and the US Army Corps of Engineers. Expansion of the authorized dredging area will require further assessment by these agencies, as well as review by additional agencies, including but not necessarily limited to the Stamford Harbor Management Commission and Shellfish Commission. Potential conflicts and restrictions to dredging will be identified.

Task 10.5: Insurance Eligibility

The Stantec Team will review the current insurance policy that is maintained by the City of Stamford covering damage to the existing marina facilities. This review specifically excludes liability issues and is intended to focus on storm related damage that could result to the infrastructure improvements. It is critical to note that the Team will provide an opinion of whether the recommended renovations can ensure eligibility for marina insurance, but unqualified assurance must be based upon detailed design and analysis.

A study in landscape contrast from shoreline and beachfront to hillsides and upland and urban hardwood forest.

Geotechnical data, sufficient for analysis and design, does not currently exist to the knowledge of our Team. If the City of Stamford has existing sub-surface data for the Cummings Marina facility, our Team will review this data to determine if it is sufficient for design. Should this data not exist, the City will need to provide geotechnical reports sufficient for design of the pile systems.

This proposal specifically excludes any costs for geotechnical investigations. Should the City of Stamford request and approve additional fees, the Team can coordinate the activities of a drilling contractor to perform a water-based test boring program. These investigations will be required for the proper design of the float anchor piles and potential access pier foundation piles. It is estimated that geotechnical explorations, sufficient to characterize the sub-surface soil conditions and evaluate the soil and rock properties for pile design at the pier and float structures, can be performed by the drilling contractor over an approximate three (3) day period. The estimated cost for the drilling contractor, assuming three (3) days of on-water drilling operations, based on recent project experience is $9,000. The actual costs for these geotechnical services may vary from the estimated amount and will be the responsibility of the City. Should un-anticipated conditions, such as extensive rock coring or other activities be required, additional costs could be incurred.

Task 10.6: Preparation of Summary Report

The Stantec Team will prepare a Final Report of Findings and present those findings to the City for their use in fiscal and physical planning. The Team will meet with representatives of the City to discuss the findings.

Task 11.0: Cummings Marina Cost Estimate

The Stantec Project Team will develop Opinions of Probable Cost (OPC) for construction of the renovations proposed as a part of the Task 9 and Task 10. The OPCs will include costs for each phase of construction of the improvements and will include materials, construction labor and equipment, engineering design and development of construction documents, estimate of building permit fees, and engineering services during construction.

The general approach of the Team is to effectively “build the job on paper”, a non-technical description that describes the approach to developing the OPCs for each improvement. The engineering staff will prepare the OPCs utilizing customized spreadsheets that will be adapted for each operation. The costs for design and regulatory services, normally provided by professional engineers, will be developed based upon the extensive experience of the Team on such projects.

Material costs will be summarized and quantified, utilizing material take-off calculations and soliciting quotes from reputable suppliers. Construction labor and equipment costs will be prepared utilizing regionally corrected published rates as available through R.S. Means Cost Data publications for 2013.

The OPC information will be developed on spreadsheets and subsequently summarized in an Opinion of Probable Cost Report. The report will be submitted to the City of Stamford as the final work product for this Task. It is anticipated that a meeting with the City will follow the submission to discuss the findings and the specifics of the OPC report.

Task 12.0: Evaluation of Maintenance and Staffing Needs for Each Completed Phase

This is an important step in concluding design consultation services and provides a smooth transition for the City to staff and efficiently manage and maintain new facilities. The maintenance and staffing plan should be of no surprise to anyone upon final delivery. The impacts of maintenance and staffing are discussed and understood through each phase of the design process – these measures shape what we ultimately specify for construction.

Three recent projects planned, designed and/or administered during construction by Stantec required maintenance and staffing strategies. The design of athletic fields at Flowers (City) Park in the City of New Rochelle included detailed descriptions of maiantenece equipment and staffing needs; the new 125-acre park at the former Tar Ponds in Sydney, Nova Scotia, includes an extensive description of maintenance and staffing needs; and our master plan for Pleasure Beach Park for the City of Bridgeport included a staffing, expense and revenue strategy.

For Cummings Park and West Beach the management plan may include but not be limited to the following items:

- Public safety
- Park Staffing (seasonal, full time, qualifications)
- Landscape maintenance
- Turf maintenance
- Tyree maintenance and replacement recommendations (hardiness, site tolerance)
- Equipment needs
- Inspections checklist (weekly, monthly, quarterly, annual)
- Winterization needs
- Amenities schedule (brand, model, finishes, suppliers, supplier contact information)
- Building systems

Task 13.0: Bid Services and Construction Administration for Phase I Renovations

Bidding: We will provide electronic and hard copy files of plans and specifications to the City of Stamford. Stantec shall provide bid quantities and assist with assembly of bid package. The City shall reproduce plans for bidding purposes. The Stantec team shall attend a walk through for bidders at the site, respond to field questions and provide an addendum to the documents to answer any questions. Upon conclusion of bidding, Stantec shall provide a set of conformed plans for construction incorporation clarifications or additional information prepared during the bid phase.

The park's scenic beauty should be enhanced along the shore and around interior hills and woodlands.

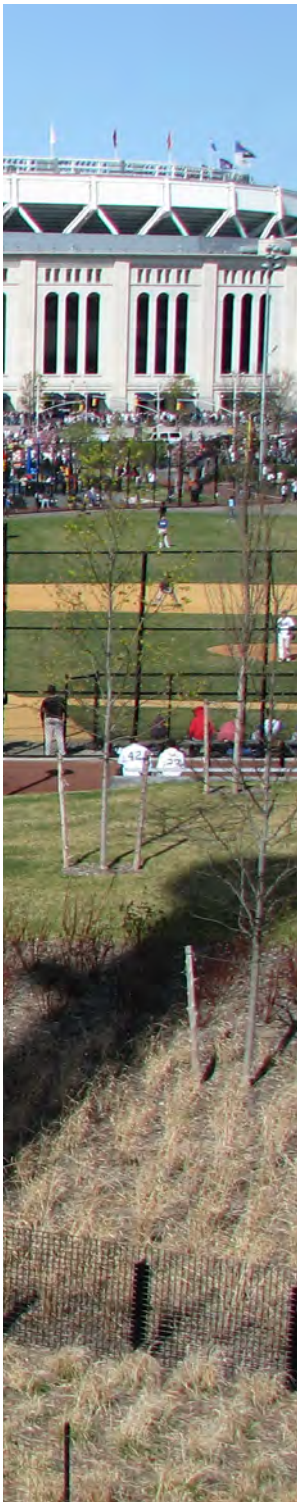
Construction Administration: Stantec shall provide construction administration services. The construction duration is anticipated to be 12 months. Services shall include the following:

- Respond to contractor RFIs and maintain a log of requests and responses.
- Prepare field sketches in response to RFIs if needed and due to unforeseen field condition.
- Field sketches shall be included into conformance set of construction drawings to inform final set of as-built drawings.
- Review shop drawings and material submittals for compliance with construction drawings, specifications and utility company requirements.
- Attend construction progress meetings and prepare meeting minutes (assume 24 meetings on site and reports; bi-weekly for 12 months).
- Provide additional project observations at a minimum of one (1) visit per week. Issue a field report including photographs and attest through visual observations that work is being performed in accordance with plans and specifications (assume 28 meetings and reports).
- Review contractor extra work requests and change orders and make recommendations for approval, revision or dismissal to the City of Stamford.
- Prepare and maintain a punch list toward the completion of construction to ensure that all proposed elements are complete and project is closed out.
- Assist the City with project close-out by attesting to completion of punch-list. Prepare final as-builts drawings and issue final park management plan.
- Stantec shall review contractor's final requisition for payment.

We will make periodic visits to the site as necessary to ensure the construction is according to the plans and specifications. We will review submittals and requests for payment.

Cummings Marina

Heritage Field - Macombs Dam Park, Bronx, New York



Project Team

STANTEC

Stantec, founded in 1954, provides professional design and consulting services in engineering, landscape architecture, park planning, public outreach, architecture, estimating and capital planning. Our urban infrastructure practice throughout the Tri-State region specializes in public park planning, design and implementation. We lead projects that range from neighborhood vest pocket parks and community-based athletic facilities, to premiere waterfront, cultural and historic park sites. Our team provides creative and technical expertise to our clients from our local offices based in Hamden and Hartford, with the resources of our extensive regional practice. Our organization provides local delivery and exceptional responsiveness and communication at all levels of project delivery.

HUESTIS TUCKER ARCHITECTS, LLC

Huestis Tucker Architects, LLC, a full service firm founded in 1988, specializes in custom residential, commercial, and corporate architecture and interior design. The principals work closely and collaboratively with every client throughout the entire process from initial sketches to final punchlist, to create buildings and interiors of timeless beauty and state of the art functionality. Huestis Tucker Architects, LLC works with consultants and contractors in a team-oriented manner to ensure that the process of construction and the final product are the very best for their clients.

ROBERGE ASSOCIATES COASTAL ENGINEER, LLC

Building upon more than 35 years of coastal engineering experience, Roberge provides site evaluation, design services, regulatory assistance, and construction oversight for coastal engineering projects throughout the United States. Roberge designs major port and terminal facilities, residential and commercial bulkheads, revetments and erosion control structures, as well as provide coastal engineering expertise to engineers, architects, planners, municipalities and economic development agencies, and design and coordinate permitting for dredging and dredged material disposal.

MARTINEZ COUCH & ASSOCIATES, LLC *(M/D/SBE)*

Martinez Couch & Associates, LLC (MCA) is a professional services company that provides Land Surveying, Environmental Consulting, Geographic Information System (GIS) and Project Management services to public and private sector clients in Connecticut and throughout the Northeast Region. Founded in 1999, MCA has developed a successful track record of project completion and service delivery, with a mission to provide clients with the proper information so that they can make educated decisions regarding the management of their projects. MCA's staff consists of Professional Engineers, Licensed Environmental Professionals, Licensed Land Surveyors, Construction Inspectors, CADD and field technicians.

PROJECT ORGANIZATION

Legend:
H= Huestis Tucker Architects
R= Roberge Associates Coastal Engineers
M = Martinez Couch & Associates (M/D/SBE)

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PROJECT MANAGER
Thomas Hammerberg, ASLA

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SPORTS FACILITIES
Kent Gannon, PE
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M/E/P
Chris Malanga, PE, CPO
Michael Kalb, PE
Robert Minicucci, PE

Gary Sorge FASLA, AICP

Project Director/Design Lead

Stantec

Mr. Sorge joined Stantec in 1987 and is a Practice Leader for Planning and Landscape Architecture. His leadership, planning, design and technical capabilities are diverse and include streetscapes, park, and public plazas; restoration of urban, historic, waterfront and wetland sites; greenway and bicycle corridor planning and design; and transportation facility enhancement studies and detailed design. Mr. Sorge has led many interdisciplinary projects as well, encompassing site planning; infrastructure and traffic engineering; ecological studies; and landscape architecture and urban design. He led the restoration of Central Park's Great Lawn in New York City and the design of the new park at the former Tar Pond's site in Sydney. Mr. Sorge was elected Fellow by the American Society of Landscape Architects in 2009, recognized for his works in landscape architecture and the design and restoration of promi nent public spaces and is also a member of the Atlantic Province Association of Landscape Architects.

EDUCATION

Bachelor of Science, Landscape Architecture, Cook College, Rutgers University, New Brunswick, New Jersey, 1986

REGISTRATIONS

Certified Planner #018913, American Institute of Certified Planners

Registered Landscape Architect #00836, Council of Landscape Architectural Registration Boards

Registered Landscape Architect #836, State of CT

Registered Landscape in NY, NJ, DE, PA, VA

MEMBERSHIPS

Fellow, American Society of Landscape Architects

Member, Canadian Society of Landscape Architects

Member, Atlantic Province Association of Landscape Architects

Member, American Institute of Certified Planners

Member, Council of Landscape Architectural Registration Boards

Member, American Planning Association

PROJECT EXPERIENCE

Former Sydney Tar Ponds Park Development Plan, Sydney, Nova Scotia

Lead Designer for a new 125-acre community and regional park on former contaminated property in downtown Sydney. The remediated site was the former location of the second largest steel plant in North America. Now in construction, the reclaimed site will feature prominent gateways, waterfront access, 2.5-miles of greenway multi-use paths, recreation fields, outdoor performance areas, an adventure playground, four pedestrian bridges and nearly 75-acres of recreated wildlife habitat. The design also features a comprehensive interpretive plan that celebrates the community's rich history. Six interpretive themes are represented and call for local artisan participation, salvage and re-use of relics, renovated rail cars, and figurative sculpture. Construction will be complete by the Spring of 2014.

Reconstruction of the Great Lawn and Surrounding Landscapes, Central Park, NY

One of the most prominent outdoor public spaces in our nation designed by Frederick Law Olmsted and Calvert Vaux, the Great Lawn was in need of renovation. Now in use for over 15 years, the space has performed as designed and continues to provide a quality passive and active recreation venue to residents and visitors to the City. As Project Manager and Lead Designer at Stantec, Mr. Sorge was responsible for the reconstruction of the 55-acre area encompassing new path configurations, athletic fields, courts, all-new infrastructure, site grading, an expanded and restored pond, a wildlife viewing platform, decorative pavements, curbing, benches, fencing, and extensive plantings.

Hatch Field Park Rehabilitation, Stamford, CT

Principal-in-Charge for the rehabilitation of an existing one-acre urban park. The park/playground features separate play areas for younger and older children, a splash pad, basketball court, walking path, picnic area with shelter and shaded seating areas.

North Woods Watershed Study/North Meadow Ballfield Reconstruction, Central Park, NY

Project Manager and Lead Designer responsible for the hydrological analysis of the 200-acre Northwoods/North Meadow Watershed and reconstruction of multiple natural turf sport's fields. The analysis was prepared to assist in the design development and preparation of contract drawings for the reconstruction of the drainage and irrigation systems of the 25-acre North Meadow Ballfields.

Aesthetic Design Consulting for the Ottawa Queensway, Ottawa, Ontario

Principal-in-Charge of the Stantec team that prepared aesthetic design guidelines for the Queensway/Highway 417 between Walkley Road and Highway 416 through Ottawa. The work included context sensitive and aesthetic design services for Highway 417 through the Capital District in Ottawa. The highway rehabilitation project includes the addition of new lanes and widened or replacement bridge structures and new or replacement retaining and noise walls. The project goals are to create a sense of arrival to Ottawa, Canada's Capital; create a sense of place for Ottawa as a major city by establishing an integrated and cohesive aesthetic corridor vision for this major transportation route. The recommendations contained in the report will inform and guide the final design of the various segments so that when completed, the corridor presents a cohesive image that represents the City and the Nation. A Technical Advisory Committee comprised of staff from MTO, the City of Ottawa, the National Capital Commission and Parks Canada participated as major stakeholders in the development of the guidelines. Cost: Planning Study for the Ontario Ministry of Transportation.

Gary Sorge FASLA, AICP (continued)

Yankee Stadium Upland Improvement Project, New York, NY

Principal-in-Charge of design services for the NYCEDC Yankee Stadium Upland Improvement Project. The project includes creating two major public spaces and recreation areas including new parks on the Harlem River waterfront and on the site of the former Yankee Stadium, rejuvenating the streetscapes, and upgrading the roadway and infrastructure network associated with the new Yankee Stadium Redevelopment project. The new community parks contribute greatly to the resurgence of the West Bronx.

Fort Washington Park Master Plan, New York, NY

Principal-in-Charge for the preparation of a comprehensive master plan, phase I development and an environmental assessment of 233 acres of diverse passive and active recreation activities of a 2-mile linear Hudson River waterfront park. Since its initial mapping in 1894, the park has experienced significant transformation due to adjacent transportation facility construction. The study resulted in a consensus-driven Master Plan priced at $150m. Plan refinement, community interests and available funding defined the first phase that is currently under construction.

Pleasure Beach Park, Bridgeport, CT

Principal-in-Charge and Lead Designer for the master plan of the 74-acre park located on Long Island Sound off the mainland of the City of Bridgeport. Stantec conducted ecological observations and public meetings, developed a facilities program and prepared concept alternatives for future improvements to the peninsula island park. Once a bustling amusement park decades ago, Pleasure Beach access was severed from Bridgeport's East End after a bridge fire in 1996. Anticipating water taxi service in the near future, the master plan shall set the course for new active and passive amenities while protecting endangered and sensitive plant and wildlife species that have adapted to the beachfront and grassland habitat. The first phase of the restoration plan will commence in the Fall of 2012.

Flowers (City) Park Master Plan and Implementation, New Rochelle, NY

Principal-in-Charge responsible for the master plan of the 20+-acre urban park and preparation of the multi-phase design plans. The design includes reconstruction of multiple athletic fields, new playgrounds, pathways and gathering spaces as well as parking and circulation enhancements. Stormwater measures are key elements of the design whereas Phase I implementation alone has eliminated flooding conditions via storage for over 100,000 cubic feet of stormwater volume. The park master plan was instrumental in obtaining over $12m in public funding for the complete park and park structure renovation.

Lighthouse Point Park, New Haven, CT

Project Manager and Lead Designer leading the site analysis, public outreach and schematic design for Lighthouse Point Park, one of the City of New Haven's premiere waterfront and most popular parks. The 75-acre site is located on New Haven Harbor and contains a beach, promenade, an historic lighthouse, a carousel and numerous buildings. In great need are improvements to circulation patterns and parking layout as well as overall aesthetic and passive recreation enhancements. Stantec's work consists of site evaluation and conducting staff and public meetings.

Eisenhower Park, Milford, CT

Project Manager and Landscape Architect for the master plan of a 330+ acre public park. The master plan revealed the potential of the mostly undeveloped parkland with minimal impact on the parks natural beauty. Multiple projects have been funded via non-municipal sources based on the recommendations of the master plan. Stantec continues to provide design services including monitoring of a newly constructed and Stantec designed 6-acre wetland. Stantec assisted the municipality in funding the construction of the wetland and in obtaining a grant to design and construct a new scenic pedestrian and vehicular bridge that now links the two sides of the park separated by the Wepawaug River.

South Meadow Wetland Creation, Eisenhower Park, Milford, CT

Stantec was retained by the Connecticut Light and Power Company (CLP) to pursue the option of establishing a new wetland habitat within the Park, as required by the Army Corps of Engineers. Stantec conducted site observations and prepared design plans for the 6-acre restoration project including buffer areas and three wet depressions sustained by seasonal groundwater and periodic floodwaters from the nearby Wepawaug River. The wetland is to be maintained for a minimum 5-year period following final installation acceptance. The new wetland has established new wildlife and plant habitat, provides flood attenuation during storm events, and provides an attractive and educational environmental feature within the Park.

West River Memorial Park Master Plan and Phase I Implementation, New Haven, CT

Lead Designer for the completion of a master plan for the 200-acre river front urban park. The plan carefully integrates access, parking, pathway, athletic field and passive recreation amenities into the naturalized park setting.Construction documents followed for the implementation of Phase I of the Master Plan. Work included the development of two athletic fields, associated parking, and infrastructure improvements along the West River in response to community demand for new play fields.

Renovation of Scalzi Park, Stamford, Connecticut

Project Manager for the renovation of the 40-acre urban park including evaluation of all existing active and passive facilities, recommendations for improvement, public outreach, and preparation of design and construction documents. The work entailed utility design, traffic and circulation improvements, restoration of existing park structures, and environmental permitting. Phase I involves reconstruction of existing tennis courts and a new state park. Phase II construction commenced in 2011.

Soldier's and Sailor's Monument, New Haven, Connecticut

Project Manager for the evaluation and master plan for the restoration of Soldier's and Sailor's Monument in East Rock Park. The 116-foot tall monument was constructed in 188. Stantec prepared a phased restoration strategy including exterior and interior renovations encompassing structural, utility and architectural improvements as well as landscape and accessibility enhancements. Construction documents were prepared for multiple bid projects. The renovation was substantially complete in 2010. Statue restoration at the lower level of the monument was performed in 2011.

Thomas Hammerberg ASLA

Project Manager

Stantec

Mr. Hammerberg has over 28 years of landscape architecture design experience in park master planning, park and streetscape design and in the preparation of construction documents for recreational, institutional, corporate and municipal projects. His recent experience includes the design of Town Woods Park in Old Lyme; Sydney Tar Ponds in Sydney, Nova Scotia; and Fairfield Hills Baseball Field. Mr. Hammerberg is also highly experienced in preparing construction cost estimates for park development and improvement projects.

EDUCATION

Bachelor of Science, Landscape Architecture, Iowa State University, Ames, Iowa, 1979

Masters of Landscape Architecture, University of Minnesota, Minneapolis, Minnesota, 1991

REGISTRATIONS

Licensed Landscape Architect #20931, State of MN

MEMBERSHIPS

Member, American Society of Landscape Architects

PROJECT EXPERIENCE

Bridgeport Parks Renovation and Construction, Bridgeport, CT

Senior Landscape Architect for the design and construction documents for the renovation of four urban parks using a federal UPARR grant. The work included installation of pedestrian lighting at Washington Park; the installation of playground equipment, fencing and reconstruction of basketball courts at Longfellow Park; the installation of playground equipment and ADA access at Success Park; and the installation of a radio-control race track, fencing and playground ADA renovations at Alice Street Park.

Hatch Field Park Rehabilitation, Stamford, CT

Project Manager/Senior Landscape Architect responsible for project management and QA/QC review of construction documents for the rehabilitation an existing one-acre urban park. The park/playground features separate play areas for younger and older children, a splash pad, basketball court, walking path, picnic area with shelter and shaded seating areas.

Former Sydney Tar Ponds Park Development Plan, Sydney, Nova Scotia

Project Manager for a new 125-acre community and regional park on former contaminated property in downtown Sydney. The remediated site was the former location of the second largest steel plant in North America. Now in construction, the reclaimed site will feature prominent gateways, waterfront access, 2.5-miles of greenway multi-use paths, recreation fields, outdoor performance areas, an adventure playground, four pedestrian bridges and nearly 75-acres of recreated wildlife habitat. The design also features a comprehensive interpretive plan that celebrates the community's rich history. Six interpretive themes are represented and call for local artisan participation, salvage and re-use of relics, renovated rail cars, and figurative sculpture. Construction will be complete by the Spring of 2014.

Seaside Park - Phase Two, Bridgeport, CT

Joined project to develop design detailing, specifications and cost estimate for design development phase. Project Manager responsible for completion of construction drawings, specifications, cost estimates, bidding and construction administration for waterfront park. The project involved redesign of the West Beach end of Seaside Park, including a new park boulevard, parking areas, main entrance booth, new accessible West Beach Bath House with picnic terrace, shade trellises and beach accessibility.

Renovation of Scalzi Park, Stamford, Connecticut

Design landscape architect for the renovation of the 40-acre urban park including evaluation of all existing active and passive facilities, recommendations for improvement, public outreach and preparation of design and construction documents. Work to date has included the renovation of existing tennis courts, the design of a new skatepark and basketball court, the design of oval walking paths with pedestrian lighting and an electrical master plan for the park.

Hebron Parks Master Plan, Hebron, CT

Senior Landscape Architect for master plan improvements of two newly acquired properties over 100 acres each. Responsible for the generation of multiple schematic design scenarios and review of follow-up design. The design of former agricultural lands included active and passive recreation taking into account site opportunities and constraints such as existing water features, wetlands, steep slopes, vernal pools and deed restrictions.

Lighthouse Point Park, New Haven,, CT

Senior Landscape Architect for master plan improvements to Lighthouse Point Park. Proposed improvements included reconfiguring parking and pedestrian circulation throughout the site. Other improvements included a seaside boardwalk, seating, shade structures and review of existing building facilities.

Edgewood Park - Phase IV, New Haven, CT

Project Manager responsible for design development drawings, specifications and cost estimate for design development phase as well as for completion of construction drawings, specifications, cost estimates, bidding and construction administration for redesign of the playground. The project involved redesign of Edgewood Park Playground that included redesign of the play areas, overseeing design and installation of custom play equipment, surrounding seat walls, a pedestrian promenade and park amenities.

Thomas Hammerberg ASLA (continued)

Chapel Street Park Improvements, Norwalk, CT

Project Manager/Senior Landscape Architect for design of park improvements to the City park at the corner of Chapel Street and Academy Street. Project included the renovation of basketball/ tennis courts, new court lighting, new fencing and curbs, new pedestrian lighting, benches, walkways, irrigation and plantings. The project included working closely with the director and representatives of the Carver Center, a non-profit facility that works with under-privileged kids.

Pardee Seawall Lighting, New Haven, CT

Project Manager for the repairs and renovation to the pedestrian lighting along an existing 1,500-foot-long brownstone seawall built circa 1930 in the Morris Cove section of New Haven. Work included the replacement of light poles and fixtures, conduit, wiring and electrical service box.

Soldier's and Sailor's Monument, New Haven, CT

Senior Landscape Architect/Technical Advisor responsible for QA/QC review of the construction documents for the site landscape architectural improvements for the restoration of Soldier's and Sailor's Monument in East Rock Park. The 116-foot tall monument was constructed in 1885.

Central Park, Vernon, CT

Technical Advisor (Senior Landscape Architect) for the development of schematic plans and contract documents for the reconstruction of this town green located within a nationally designated historic district. The park includes war memorials, lawn areas, trees, and paths as well as a zinc fountain dating from 1883. The project includes utility relocation, the installation of a new irrigation system, repairs to pavement and masonry, a new planting plan reflecting the park's original configuration and restoration of the fountain.

Loring Park Athletic Fields and Comfort Station, Queens, NY

Senior Landscape Architect/Technical Advisor responsible for QA/QC review of the construction documents for the renovation and reconstruction of an existing park in the Borough of Queens. Improvements included fencing, ballfield renovation, new plantings and prefabricated comfort station.

St. Andrews Park, Brooklyn, NY

Senior Landscape Architect/Technical Advisor responsible for the renovation of an existing park in the Borough of Brooklyn to provide athletic facilities for a new high school across the street. Improvements include a multi-purpose synthetic turf athletic field, renovation of sports field lighting, new fencing, an 850-seat bleacher, an athletic equipment storage building, and the renovation of or installation of a new prefabricated comfort station.

Wagner Playground Athletic Turf Field, New York, NY

Technical Advisor (Senior Landscape Architect) for the design and contract documents for the renovation of the Wagner Playground. The project included the addition of an artificial turf field with associated drainage the renovation of handball and basketball courts, fence and site furnishings replacement, and the renovation of a plaza featuring a monument dedicated to Robert F. Wagner, Jr., for whom the park is named.

Brainerd Park Master Plan, Enfield, CT

Landscape Architect for the Master Plan to expand and rehabilitate this 33-acre community park. The work entailed the development of plan alternatives, construction cost estimates and identification of regulatory requirements for presentation to the Enfield Town Council. A final scheme was selected and a final master plan was submitted to the town and set forth for a Town-wide referendum to approve funding for final design and construction.

Lyndale Neighborhood Pocket Park, Minneapolis, MN

Project Manager responsible for schematic design, neighborhood meetings, final design and construction documents and specifications for a small neighborhood park.

Jason Yadlovski LLA, RLA

Landscape Architect

Stantec

Mr. Yadlovski's 10 years of professional experience include a wide range of landscape architectural projects for various public agencies, school boards, and municipalities, as well as private clients. His areas of expertise range from urban design, streetscapes, and corridor management planning, to community parks, sports fields, and synthetic turf. He has been responsible for assembling and producing conceptual through final construction documents, estimating, multidisciplinary coordination, construction services, and project budget management.

EDUCATION

Bachelor of Science, Landscape Architecture, Cook College, Rutgers University, New Brunswick, New Jersey, 2002

REGISTRATIONS

Licensed Landscape Architect #A5001056, State of NJ

Registered Landscape Architect #002107, State of NY

MEMBERSHIPS

Member, Council of Landscape Architectural Registration Boards

Member, American Society of Landscape Architects

PROJECT EXPERIENCE

Nutley Park Oval, Nutley, NJ

Mr. Yadlovski was the junior landscape architect on the projected. Responsibilities included preparing conceptual designs, preliminary through final construction documents,presentation boards and various graphics for the Nutley Board of Education and community workshops. The scope of the project called for redevelopment of Nutley's premier recreational facility and community center. Responsibilities included the preparing of a master plan with design elements that include synthetic turf football/ soccer/lacrosse/baseball fields, sports field lighting, spectator seating and various architectural enhancements.

Newport Green, Jersey City, NJ

Landscape Architect on a multidisciplinary team to design, prepare construction documents and construction services for a 4+ acre park in the Newport section of Jersey City, NJ. Responsibilities on the project included coordination with the designers, Mathews Nielsen, civil, structural, and electrical engineers, the client, various venders as well as preparation of all preliminary through final construction documents and construction services.

Alexander Hamilton Bridge – Highbridge Park Skate Plaza, New York, NY

As part of the restoration and mitigation projects, Mr. Yadlovski assisted in the coordination of the design and agency approval of a new 24,000-ft² skate board plaza in Highbridge Park. The design entailed the coordination with a skate board consultant to gain design approval through the New York State Department of Transportation, New York City Dept. of Parks & Recreation, and the New York Public Design Commission. Mr. Yadlovski also assisted in the coordination of the design and development of the skate plaza walls, obstacles, seating areas, stairways, structural and electrical elements. Coordination between civil, structural, and electrical engineers as well coordination with Jacobs (prime) was critical in the development of construction documents and specifications which were also prepared by Mr. Yadlovski. Additional responsibilities on the project included creating a 3D model of the project, presentation graphics, project financial management, construction support, shop drawing review, and post award design changes.

Realignment of Chatham Square/Park Row, New York, NY

Project Manager for the urban design and streetscape improvement of a three block section between Chatham Square (the gateway to Chinatown); Police Plaza; and the ramps to the Brooklyn Bridge, in order to create a safe pedestrian and vehicular environment while also complying with the security requirements of the NYC Police Department and the federal Marshall's office. Mr. Yadlovski is responsible for the preparation of construction documents and specifications as well as coordination with subconsultants and vendors.

Reconstruction of Houston Street, New York, NY

Landscape Architect responsible for urban and streetscape design improvements for the Bowery to FDR Drive length of Houston Street. The work included new curbs, pavements, street trees, medians, crosswalks, lighting and sidewalk amenities associated with roadway geometric improvements. The work entailed a detailed tree inventory to facilitate the street tree planting and replacement program and documentation of historic stone curbing and sidewalks. Mr. Yadlovski was responsible for assisting with the design of the project, the preparation of preliminary through final construction documents, estimating, graphics, and coordination between internal staff and the client (NYCDDC).

Millstone Valley Scenic Byway, Millstone, NJ

Mr. Yadlovski was a Landscape Architect on the team for the development of the Millstone Valley Scenic Byway Corridor Management Plan. The project, for the New Jersey Department of Transportation, includes coordination and meetings with a stakeholder group, local jurisdictions, and public outreach meetings to develop specific goals and a vision for the byway. Existing conditions and corridor surveys were conducted to gather information and make an assessment of the intrinsic qualities located within the corridor. A roadway analysis was completed

Jason Yadlovski LLA, RLA (continued)

and context sensitive solutions will be recommended. A signage study plan was completed and recommendations will be made to unify signage in the corridor and reduce redundant signage. Significant resources were examined and recommendations will be made on ways to distribute information regarding the resources, i.e. brochures, websites, multi-media, etc. This plan was used to gain designation as a state and national scenic byway. Mr. Yadlovski's responsibilities include project management, information collection and analysis, attendance to all meetings, graphic presentations, and assisting in the preparation of the Millstone Valley Scenic Byway Corridor Management Plan.

14th Street Viaduct, Hoboken, NJ

Landscape Architect on a multidisciplinary team responsible for the planning and urban design of the park space located below the newly redesigned 14th Street Viaduct in Hoboken, NJ. Responsibilities included coordination with civil and electrical engineers as well as various manufacturers, directing junior staff, preparing preliminary through final construction documents, estimating, various graphics, preparing NJDOT specifications, and providing construction services.

West Side Park, Essex County, NJ

Mr. Yadlovski was responsible for the preparation of final construction documents for a synthetic turf baseball field located within West Side Park in Newark, NJ. Site improvements include a synthetic turf baseball field with warning track, site drainage, fencing, public address system, scoreboard, addition of flag poles, concrete bleacher restoration, walkway restoration and additions, trash receptacles, benches, a drinking fountain, pedestrian lighting, and landscaping. Currently the project is under construction and completion is expected by the fall of 2007.

Columbia University, New York, NY

Landscape architect responsible for the development and presentation of several grading studies to demonstrate how additional trees can be added to the site on top of an underground parking structure. Planning for the project included site analysis and exploring how landform can transform the location from a level site to a visually more appealing site. Coordination between civil engineers and the project architect was an important part of the process.

Park Inventory and Master Plan, Waldwick, NJ

Junior landscape architect on the project. Responsibilities included inventory of existing facilities, community population totals, park and field usage, community outreach, redesign of nine parks and analysis of future park development sites. The Borough of Waldwick has approximately 115 acres of developed parkland, which was in need of redevelopment to more adequately meet the needs of residents.

Mill Creek Ballfield, Secaucus, NJ

Mr. Yadlovski provided landscape and site design for the development of a five-acre mult- purpose Ballfield renovation project. Site design required detailed plans for bleacher structures, drainage, sanitary sewer and site amenities. Primary duties included preparation of site plan, landscape plan, and construction details as well as estimates and construction support.

Jewish Home at Rivervale, Township of Rivervale, NJ

Township of Rivervale, Bergen County, NJ. Junior Landscape Architect responsible for planting design, tree preservation assessment, field survey assistance and preparation of landscape plans for a 110-unit assisted living facility, approximately 49,000 S.F., on 5 acres of land.

Village of Ridgewood, Traffic Calming, Ridgewood, NJ

Junior landscape architect on the project, Mr. Yadlovski assisted in the streetscape redesign of five intersections to facilitate traffic calming. Primary duties included field survey work, map preparation, and final design layout. The Village of Ridgewood requested Stantec to design a way to slow traffic in their town center to increase pedestrian safety and ease the flow of traffic.

Irving Gladstein Commemorative Garden, West Caldwell, NJ

Mr. Yadlovski assisted in planting design and layout for Commemorative Garden within a public park. Design elements included a retaining wall with built in benches and plaques, a new walkway and extensive planting design.

Outdoor Multi-Purpose Center, Waldwick, NJ

Mr. Yadlovski was a landscape architect on the project. Responsibilities included site and landscape design. Stantec was responsible for conceptual design, survey, layout, grading, drainage/utility design, planting design, preparation of contract documents and construction inspection. The Waldwick Outdoor Multi-Purpose Center features an amphitheater consisting of a terraced lawn seating area looking out upon a rink/stage.

Hillside and Tenakill Schools, Closter, NJ

Junior landscape architect on the project, Mr. Yadlovski provided landscape design and assisted in site design and layout in support of new additions to each school. Design items included a newly reconfigured drop-off/pick-up area, a new parking lot and retaining walls. The scope of work included grading, drainage design, design of sanitary sewers and other site utilities, survey, environmental services, landscape design and permitting and structural design.

Newark Downtown District Streetscape Project, Newark, NJ

Mr. Yadlovski was the project manager for the Newark Downtown District Streetscape Project.The project included 56 blocks of streetscape improvements within the Newark Downtown District. Improvements included granite corner treatments, crosswalk treatments, driveway treatments, pedestrian and vehicular street lighting, new traffic signals, addition of trees, trash receptacles, benches, planters, pedestrian way finding signage, consolidation and examination of existing regulatory signage. Mr. Yadlovski's responsibilities included project management and coordination, design and layout of streetscape elements, site detailing, managing the production of final contract documents and attending biweekly meetings with the streetscape committee for the project.

Phillip Champagne

Landscape Designer

Stantec

Mr. Champagne has experience with a variety of projects including parks and trails master planning and rehabilitation, urban and recreational park design and institutional site design and planning. Other expertise includes preparation of construction and contract documents as well as graphic renderings.

EDUCATION

Bachelor of Science, Landscape Architecture, University of Connecticut, Storrs, Connecticut, 2006

PROJECT EXPERIENCE

Lawrence Road Park, South Windsor, CT

Landscape Architectural Designer assisting with the schematic design, design development and construction documents for passive recreation improvements to Lawrence Road Park. Improvements included stone screenings, walking paths, gravel parking lot, invasive plant removal, and fishing dock and seating.

Lighthouse Point Park, New Haven, CT

Landscape Architectural Designer for this master plan, assisting with site analysis, public outreach and schematic design for Lighthouse Point Park, one of the City of New Haven's premiere waterfront and most popular parks. The 75-acre site is located on New Haven Harbor and contains a beach, promenade, an historic lighthouse, a carousel and numerous buildings. In great need are improvements to circulation patterns and parking layout as well as overall aesthetic and passive recreation enhancements. Stantec's work consists of site evaluation and conducting staff and public meetings.

Eisenhower Park, Milford, CT

As Landscape Architectural Designer, assisted with the compilation of the master plan report for this 350-acre public park. The master plan will reveal the potential of the mostly undeveloped parkland. Stantec will prepare design and construction documents upon adoption of the Master Plan.

Soldier's and Sailor's Monument, New Haven, CT

Landscape Architectural Designer assisting with the evaluation and design plans for the redesign and restoration of the base of the Soldier's and Sailor's Monument in East Rock Park. The 116-foot tall monument was constructed in 1885. Construction documents were also prepared for bidding. Restoration of the base began in late 2008.

City (Flowers) Park, New Rochelle, NY

Landscape Designer for the reconstruction of this 20-acre park in an urban setting. The primary driver for the reconstruction is the need for additional athletic fields within the City. A master plan was prepared examining alternate layouts and was presented to the various park stakeholders. Construction documents are being prepared for the first phase of improvements. Park elements include five (5) multi-purpose fields, a basketball court, a water spray feature, a playground, and paved trails linking them together. The majority of the fields will have synthetic surfaces and lighting to increase playing time and field availability. The plan required coordination with the City of New Rochelle, Westchester County and FEMA.

Former Sydney Tar Ponds Park Development Plan, Sydney, Nova Scotia

Landscape Designer for a new 125-acre community and regional park on former contaminated property in downtown Sydney. The remediated site was the former location of the second largest steel plant in North America. Now in construction, the reclaimed site will feature prominent gateways, waterfront access, 2.5-miles of greenway multi-use paths, recreation fields, outdoor performance areas, an adventure playground, four pedestrian bridges and nearly 75-acres of recreated wildlife habitat. The design also features a comprehensive interpretive plan that celebrates the community's rich history. Six interpretive themes are represented and call for local artisan participation, salvage and re-use of relics, renovated rail cars, and figurative sculpture. Construction will be complete by the Spring of 2014.

West Thames Park, New York, NY

The design of West Thames Park is part of the ongoing design and construction of the West Street Promenade from Battery Place to Chambers Street. The park design requires coordination with various city agencies and community groups and ascribes to the design criteria established by the Route 9A design guidelines. As Junior Landscape Architectural Designer, Mr. Champagne provided design support and drafting as well as preparation for presentations.

Cedar Street Streetscape Improvements, Norwalk, CT

As Junior Landscape Architectural Designer, assisted with design of streetscape improvements to Cedar Street, a small historic neighborhood commercial and retail hub within walking distance of downtown Norwalk and the South Norwalk Train Station. Project includes roadway reconstruction, new granite curbs, new pedestrian lighting, decorative pavement, plantings and other streetscape elements. The project included working closely with the Golden Hill Neighborhood Association to develop the design and construction documents.

Broad Street Streetscape, Manchester, CT

Landscape Architectural Designer assisting with schematic design and graphic rendering of plan. Stantec is providing survey, highway design, traffic design, access management analysis, and landscape architecture design services that will assist the Town of Manchester in providing for a safe and attractive roadway system that will balance functionality with visual appeal and continuity on this heavily traveled arterial street. A critical aspect of the project has been in the extensive public outreach effort for corridor stakeholders and the Town's general public.

University of Bridgeport Guidelines, Bridgeport, CT

Landscape Architectural Designer assisting with the photographs and graphic work for the Design Guideline Booklet. Stantec prepared design guidelines for the University of Bridgeport that included illustrations, sketches, cost, suppliers, and photos of preferred site amenities and circulation patterns to guide University officials in future site improvement decisions.

Christina Lynch LEED®AP

Landscape Designer

Stantec

Ms. Lynch is accomplished in the preparation of schematic, preliminary and final designs for recreational facilities, streetscape improvements and transportation projects. Her technical expertise includes the preparation of presentation drawings in Photoshop and Illustrator, the generation of cost estimates, and the production of contract documents using AutoCAD. Additionally, Ms. Lynch has particular expertise in the use of plant materials in the urban landscape.

EDUCATION

Bachelor of Science, Environmental Planning and Design, Landscape Architecture, Rutgers University, New Brunswick, New Jersey, 2008

Associate of Applied Science, Landscape Management and Design, County College of Morris, Randolph, New Jersey, 2004

California State University at Northridge, Northridge, California, 1984

REGISTRATIONS

LEED Green Associate, U.S. Green Building Council

MEMBERSHIPS

Member, American Society of Landscape Architects (New York Chapter)

AWARDS

2008 NJASLA National Student Honor Award

2007 NJASLA National Student Merit Award

2006 James C. Rose Environmental Design Award

PROJECT EXPERIENCE

Redevelopment of Fort Washington Park, New York, NY

As a Junior Landscape Designer on this multi-phase redevelopment project along the Hudson River in northern Manhattan, Ms. Lynch has developed a native plant based plant pallet for the parks' planting scheme in addition to preparing planting plans for recreational and playground areas along the 4 mile long park system. Ms. Lynch also prepared graphic renderings of sections to illustrate proposed design concepts for treatments within selected areas of the park.

Playgrounds to Parks Initiative, New York, NY

PlaNYC's 2030 initiative creates green space by refurbishing playgrounds into parks which are open for public use after school hours. Ms. Reimer assisted the Project Manager in working with students, faculty, community representatives and participating agencies with presentations and facilitation during individual schools Design Day process. Ms. Lynch also facilitated in conceptual design development, as well as the estimating and construction document process.

Pulaski Park and Tilden Playground, Brooklyn, NY

Landscape Designer and Assistant Project Manager for the reconstruction of a multipurpose play area adjacent to a public school, including handball, basketball, baseball, and Tennis Courts, water service amenities and an underground water infiltration and stormwater retention system. The work included design development, analysis of subsurface conditions, and construction documentation including custom specifications, cost estimates, construction drawings and all client, subconsultant and agency coordination.

Dyckman Street Pedestrian and Bicycle Ramp, New York, NY

The Dyckman Street Project includes design services for the construction of an ADA compliant pedestrian and bicycle ramp in Fort Washington Park, as well as greenway improvements in Inwood Hill Park in Northern Manhattan. Ms. Lynch researched plant material appropriate to the areas' native plant community to develop extensive planting plans, including plans for a Proposed Emergent Successional Hardwood Forest Community around the accessible ramp area.

Inwood Hill Park Little League Baseball Field, Tennis and Basketball Courts, New York, NY

Landscape Designer and Assistant Project Manager for the reconstruction of the Little League Baseball Field, nine tennis courts and two basketball courts in Inwood Hill Park in Northern Manhattan. The baseball field renovation included re-grading the playing field to provide safe and improved playing conditions, ADA access compliance, fence reconstruction, and site amenities, including a player warm-up area. The tennis and basketball courts renovation included analysis of the subsurface conditions and possible reorientation of the courts to optimize playing conditions. The work included new full depth pavement, color seal coat, fence reconstruction, site amenities, ADA access compliance, and improvements to drainage and water supply systems.

Bridgeport Hospital Entry Plaza, Bridgeport, CT

Project Landscape Designer assisting with urban plaza design to transform a public roadway formerly bisecting this busy hospital into a private drive with an enhanced, pedestrian-based entry sequence, extensive landscaping and event spaces. In addition to assisting with urban design on the project, Ms. Lynch prepared planting plans, contract drawings and facilitated the coordination and management of the multi-disciplinary team involved on the project.

Phil Katz PE

Civil Engineer

Stantec

Mr. Katz has extensive experience in the design, permitting and construction administration on a variety of civil engineering projects. His experience includes transportation, infrastructure, residential and commercial development, parks and recreation projects.

EDUCATION

MBA, University of New Haven, West Haven, Connecticut, 1990

Bachelor of Science, Civil Engineering, University of Maine, Orono, Maine, 1983

REGISTRATIONS

Professional Engineer #15307, State of CT

MEMBERSHIPS

Member, American Society of Civil Engineers

PROJECT EXPERIENCE

City (Flowers) Park, New Rochelle, NY

Project Manager for the reconstruction of this 20-acre park in an urban setting. The primary driver for the reconstruction is the need for additional athletic fields within the City. A new ice rink has also been identified as a need. A Master Plan was prepared examining alternate layouts and was presented to the various park stakeholders. Construction documents are being prepared for the first phase of improvements. Park elements include five (5) multi-purpose fields, a basketball court, a water spray feature, a playground, and paved trails linking them together. The majority of the fields will have synthetic surfaces and lighting to increase playing time and field availability. The plan required coordination with the City of New Rochelle, Westchester County and FEMA.

Fort Washington Park, New York, NY

Managed the multi-phased design of improvements to this NYC DPR park. The park is located between the Henry Hudson Parkway and the Hudson River. The park master plan included new ballfields, playground, volleyball courts and a new comfort station. The proposed plan segregates the bicycle traffic from the pedestrian for a large portion of the project.

Scalzi Park, Stamford, CT

Prepared the civil engineering portion of the improvements to this park as Phase 1 of an overall development plan. The first phase included the reconstruction of the oval roadway around the park perimeter, new drainage, a lighted pedestrian path around the oval, playground improvements and configuration of ballfields

Mill River Park, Stamford, Connecticut

Managing the construction administration for the development of a new urban park in the downtown core. Project elements will include granite, grand stairs down the river, various walking paths and trails and a great lawn for gathering. The project includes extensive plantings and the establishment of a natural river corridor. The supporting infrastructure for future park features will also be installed in this phase of the project.

Burning Tree Country Club, Greenwich, CT

Provided engineering support and coordination for the development of the golf master plan for improvement. Coordinated the design with the various local and State regulatory agencies.

Criscuolo Park, New Haven, CT

Evaluated the erosion damage to this park and prepared a preliminary plan to stabilize the waterfront using riprap. Permits will filed and obtained from the CTDEP and the Army Corps of Engineers.

Woodend Road Courts, Stratford, CT

Managed the design and construction administration for replacement basketball courts and the refurbishment of the handball court at this park. The existing basketball courts did not have sufficient safety areas around them and were not standard size. New subsurface drainage chambers were added to reduce runoff from the site. Site furniture was replaced and a new drinking fountain was added.

Waterfront Improvements at East Shore Park, New Haven, CT

Managed the construction administration for the installation of shoreline erosion protection measures for this park which is located on New Haven Harbor. Two measures were used on the shore front. The first included the installation of large riprap along the slope. The second solution included the use of dunes, beach grass and other plantings to stabilize the shorefront. Coordinated all work with the CT DEP and the Army Corps of Engineers. After completion of the shorefront protection measures, the walking path along the top of slope was reconstructed and new plantings were added.

Stamford Transportation Center, Stamford, CT

Prepared a comprehensive Master Plan for the development of the transportation center into a vital intermodal hub and a gateway to the City of Stamford. Both short term and long range planning are being considered. An objective of the plan is to encourage Transit Oriented Development (TOD) around the center. It is being coordinated with the Connecticut Department of Transportation, Metro-North Commuter Railroad and other operators with the transportation center. Major stakeholders within the City are providing insight into the development of the plan. Evaluation is ongoing for train operations, parking, pedestrian movements, vehicular traffic, buses and shuttle operations.

Chatham Square/Park Row Improvements, New York, NY

Evaluated the existing utilities located below these city streets to determine potential conflicts with various landscape improvements at the surface. The roadways were being reconfigured to reroute traffic from potential terrorist targets. Vaults adjacent to buildings and below the sidewalks were also examined for potential conflicts.

Andrew Lessard PE

Structural Engineer

Stantec

Mr. Lessard is an experienced project manager and structural designer, with expertise on bridge, roadway and building projects. He provides his clients with his extensive knowledge gained from over fourteen years of his work, including with the Connecticut Department of Transportation's Bridge Design Unit. Mr. Lessard brings his expertise in bridge design and analysis, load rating analysis, and complex structural analysis to his public sector clients, such as CTDOT, CT municipalities, and NYSDOT, as well as contractors. He is also experienced in reviewing contractor's submittals, including shop drawings and design of temporary structures. He is additionally familiar with several codes and requirements, including AASHTO LRFD & LRFR, AREMA, AISC, CT Building Code, CAN/CSA, and the CTDOT Bridge Manual.

EDUCATION

Master of Science, Civil Engineering, Rensselaer Polytechnic Institute, Troy, New York, 1999

Bachelor of Science, Civil Engineering, University of Virginia, Charlottsville, Virginia, 1997

REGISTRATIONS

Professional Engineer #22652, State of Connecticut

MEMBERSHIPS

Member, American Society of Civil Engineers

PROJECT EXPERIENCE

Yankee Stadium Heritage Field, Bronx, NY

Provided structural design in support of Heritage Field at the site of the old Yankee Stadium. Work included structural design of a new retaining wall supporting portions of the old Yankee Stadium decorative frieze, as well as a pedestrian ramp with two span prestressed bridge structure.

Lighthouse Point Park Seawall, New Haven, CT

Provided structural design and permitting for the rehabilitation of an existing seawall. Permitting was completed through CTDEP's Office of Long Island Sound Programs

Soldiers' and Sailors' Monument Restoration, New Haven, CT

Phased rehabilitation of an existing 120' tall monument at East Rock Park. Work included hands-on inspection and rehabilitation cost estimates necessary for the development of a rehabilitation master plan, developing specifications and contract documents, assisting with historic grant applications, and coordinating restoration and strengthening of existing bronze statues.

Dover Beach Seawall, New Haven, CT

Provided structural design and permitting for the rehabilitation of an existing seawall adjacent to a park improvement project. Permitting was completed through CT DEP's Office of Long Island Sound Programs.

Irvington Waterfront Park, Irvington, NY

Provided structural design for new field lightpoles supported by piles.

New London Vista Walkway, New London, CT

Design of a new multi-use trail for the City of New London, including preliminary trail alignment and cost estimating. Work also included layout of several retaining wall structures necessary to minimize impacts to adjacent properties.

Central Park, Vernon, CT

Provided structural design in support of the reconstruction of this town green located within a nationally designated historic district. Work included design of lightpole foundations, retaining wall repair, and other miscellaneous structural items.

Queens Botanical Garden, Queens, NY

Provided structural design for 7,000 LF of new fencing and columns at the perimeter of the garden, including the unique steel tree entry gate. Special piers and foundations were designed for areas where the existing subsurface soil conditions or high water table did not permit a standard foundation.

Reconstruction of the Floodplain and Channel of the Bronx River, Bronx Park, New York, NY

Provided structural design and contract documents for new pedestrian and vehicular boardwalks. The boardwalks utilize exotic hardwood decking supported by galvanized steel framing to ensure durability while minimizing future maintenance. Helical screw piles were chosen for substructure support to minimize environmental impacts.

Fort Shantok Pond Restoration and Trail Development, Uncasville, CT

Provided preliminary and final layout of a new 4,000-foot trail for this project associated with the restoration of Tantequidgeon Pond. Work also included structural design for a new 376-foot-long timber pile supported boardwalk and concrete abutments for a prefabricated pedestrian bridge.

Edgerton Park Wall Evaluation, New Haven, CT

Rehabilitation of an existing ¾-mile-long stone masonry wall surrounding a City-owned park. Work included developing a rehabilitation report for the wall and phased contract documents, including developing new precast coping details, repointing specifications, and cost estimates.

Japanese Hill and Pond Garden, Brooklyn Botanic Garden

Provided structural design and improvements for the reconstruction of the Viewing Pavillion and Shrine.

Antonio Di Camillo PE

Civil Engineer

Mr. Di Camillo has been involved in numerous civil engineering projects since joining Stantec. His experience includes all aspects of site development, including grading and drainage, hydraulic and hydrological analysis, and environmental permitting. He is familiar with HEC-HMS, HEC-RAS, StormCAD and HydroCAD modeling software. Additionally, he is certified as an ACI Field Testing Technician - Grade 1.

EDUCATION

Bachelor of Science, Civil Engineering, University of Connecticut, Storrs, Connecticut, 2000

REGISTRATIONS

Professional Engineer #25500, State of CT

PROJECT EXPERIENCE

New London Vista Walkway, New London, CT

Project Engineer for the design of the TEA-21 multi-use trail for the City of New London. Work included layout, grading, and drainage of trail, along with minor roadway realignment and utility relocation.

Edgerton Park Drainage Study, New Haven & Hamden, CT

Project Engineer responsible for site investigation, report preparation and cost estimating for the study of erosion and drainage problems at the 22-acre Edgerton Park. Some of the on-site problems included erosion along paved areas and significant ponding at existing drain basins. The project involved site inspection of all drainage structures at the site, evaluation of existing conditions to identify specific erosion and flooding areas, and proposing recommendations to remedy the drainage issues at the site along with a cost estimate for the proposed work.

Fort Hale Drainage Study, New Haven, CT

Junior Engineer responsible for the hydrological analysis and preliminary design of drainage improvements to Fort Hale Park in New Haven, Connecticut. The Fort, which dates back to colonial times, has experienced degradation due to increased development in the area surrounding the park. Stantec is studying means to provide flood protection measures for the park while maintaining the important historical features of the site.

Broad Street Roadway and Streetscape Improvements, Manchester, CT

Project Engineer for survey and design for improvements to 3,000 lf of Broad Street, a significant Town arterial roadway with significant commercial and service type of retail establishments. Project includes roadway reconstruction, new and upgraded storm drainage facilities, new major culvert analysis and replacement, extensive utility relocations, traffic signal analysis and replacements and streetscape elements. Due to the nature of the surrounding businesses, an extensive public outreach process was formulated and implemented to garner stakeholder approval for the plan of improvements.

Rooster River Flood Control Project, Phase 3, Fairfield, CT

Engineer responsible for hydrological and hydraulic analysis for the new phase 3 study of the entire watershed basin for the Rooster River in Fairfield, Connecticut. Stantec developed new alternatives and recommendations including cost estimates for controlling flooding in problematic areas for an 11-square-mile watershed. The study included extensive HEC-HMS and HEC-RAS analysis.

Drainage Analysis, Rose City Trading Co. Site Plan, East Hartford, CT

Junior Engineer responsible for the design of a parking lot reconstruction project located in East Hartford, Connecticut. Due to the limited site area, a sub-surface storm water detention system was designed with an outlet structure which limits peak flows for the 2-, 5-, 10-, 25-, 50- and 100-year storm events to preconstruction levels. A new parking lot will be constructed over the stormwater detention system.

Riverhouse Development, Fairfield, CT

Project Engineer for the design of this mixed use development consisting of 20,000 sf of retail space and 42 condominium units. The site is a significant redevelopment project for this area of Fairfield and includes extensive site environmental remediation. Stantec provided site layout design, civil and traffic engineering, and landscape architecture for the project. Work included all facets of design as well as parking analysis, site grading and storm drainage design and stormwater quality review. Due to critical issues associated with flooding in the area, special consideration was provided for in designing to reduce flood impacts associated with the grading and construction activities. Stantec is responsible for all permitting for this project at both the local and State level, including Town of Fairfield Planning and Zoning Commission, Inland Wetlands Commission and State Traffic Commission.

Woodbridge Village, Woodbridge, CT

Project Engineer for a mixed-use active adult development on 15 acres. The development will include 137 housing units (73 townhomes and 64 condominiums); 12,000 square feet of retail space; and a 4,000-sf restaurant. Duties included site layout, grading and drainage, detention design, and utility layout/ coordination.

Stonington Commons, Borough of Stonington, CT

Junior Engineer for the redevelopment of a 5-acre former factory site. The waterfront property was converted to a mixed-use residential and commercial development consistent with the Borough's New England character and charm. Existing buildings on site pre-dating the Civil War were preserved. Stantec was the project landscape architecture, civil engineering, traffic and parking consultant.

Joseph Lamagese AIA, LEED®AP

Architect

Stantec

As a licensed architect, LEED accredited professional, and project manager, Mr. Lamagese offers nearly 24 years of experience in the design and management of a wide variety of project types. His experience includes the preparation of feasibility studies, space planning, programming, design and the preparation of construction documents for governmental, institutional, and private sector projects including complex federal facilities, pharmaceutical facilities, universities and secondary schools, religious institutions, as well as municipal parks.

EDUCATION

Bachelor of Science, Architectural Technology, New York Institute of Technology, Old Westbury, New York, 1989

Associate in Applied Science, Construction Engineering Technology, State University of New York, Farmingdale, New York, 1986

REGISTRATIONS

Registered Architect #024854, State of Connecticut

MEMBERSHIPS

Member, United States Green Building Council, New York Upstate Chapter

Member, American Institute of Architects

PROJECT EXPERIENCE

Preservation Hither Hills State Park Bathhouse, Montauk, NY

Programming and design of a new 26,000 sf bathhouse and visitors' center, including men's and women's toilets, Changing rooms and shower rooms. The project also included the restoration of a historic structure for use as a concession stand involving the replacement of damaged and decaying wood deck piles. The design for this structure kept a low profile to keep in harmony with the scale of the surrounding dunes. The natural material selections allowed the structure to blend and become part of the landscape.

Heritage Field Comfort Station, Bronx, NY

Programming and design services for the Yankee Stadium Upland Parks contract associated with New York City's new park development program in the West Bronx Community. The program included design documents and construction support for a new 650 SF comfort station. The comfort station contains men's and women's restroom facilities and a central mechanical space that houses all of the 13-acre park's primary mechanical equipment.

New York State Office of Parks, Recreation and Historic Preservation Jones Beach West Bath House, Wantagh, NY

Design services for repair and renovation work including a complete roof replacement, masonry facade restoration, cast stone repairs and replications, window and door replacements, structural repairs and ADA compliance upgrades including ramps and elevator installation.

St. Gregory of Nyssa Orthodox Church, Seaford, NY

Provided planning and design for additions and interior and exterior restoration work for this to historic (1895) church.

New York State Office of Parks, Recreation and Historic Preservation Bayard Cutting Arboretum, Great River, NY

Restorative design services for a circa 1886 mansion to address water infiltration issues including masonry restoration and a complete roof replacement.

New York State Office of Parks, Restoration and Historic Preservation Caleb Smith State Park, Smithtown, NY

Provided Architectural design services for repairs and renovations to the cracked and spalling masonry chimneys and the metal roofed wrap-around porch of this historic 1819 farmhouse. Restorative epoxies and specialized coatings allowed for minimal replacement of the historical fabrics that make up the porch framing and metal roof surfaces.

New York State Office of Parks, Recreation and Historic

Trinity Evangelical Lutheran Church, Walden, NY

Provided programming and preliminary architectural design services for a new 9,000 sf Fellowship Hall and Gymnasium, and an additional 12,000 sf wing to house new classrooms, conference rooms, offices, kitchen, and storage space. Estimated Value - $2,100,000. The project also included preliminary design services for the renovation of the existing 6,100 sf sanctuary

New York State Office of General Services Pilgrim Psychiatric Center Bldg. 25, Brentwood, NY

The project involved the removal of two 2,000 sf brick, steel, and glass porch/skylight enclosures and restoration of the building envelope to address water infiltration problems. The scope of work involved design for the complete removal of these structures, roof replacements, window replacements, scoping replacements, and repairs to the masonry facade.

New York State Office of General Services Pilgrim Psychiatric Center Bldg. 25, Brentwood, NY

The project involved the removal of two 2,000 sf brick, steel, and glass porch/skylight enclosures and restoration of the building envelope to address water infiltration problems. The scope of work involved design for the complete removal of these structures, roof replacements, window replacements, scoping replacements, and repairs to the masonry facade.

Gabreski Air National Guard, Westhampton Beach, NY

Managed a multi-disciplined design-build team for a two-story, 40,000 sf facility that would serve as a new headquarters for the Air National Guard. The project also included a separate 28,000 sf vehicle maintenance/aerospace ground equipment facility to house the aircraft and vehicle maintenance operations.

Kent Gannon PE

Civil Engineer

Stantec

Mr. Gannon has been involved in a variety of projects covering numerous phases of site development. His knowledge includes roadway design, site grading, drainage, sanitary sewer design and rehabilitation, as well as hydrological site analysis. He is familiar with Autodesk Land Desktop, Pond Pack, HydroCAD and StormCAD software.

EDUCATION

Bachelor of Science, Civil Engineering, Rensselaer Polytechnic Institute, Troy, New York, 2005

REGISTRATIONS

Professional Engineer #0027452, State of CT

PROJECT EXPERIENCE

Flowers (City) Park Master Plan and Implementation, New Rochelle, NY

Civil enginner for the master plan of the 20+-acre urban park and preparation of the multi-phase design plans. The design includes reconstruction of multiple athletic fields, new playgrounds, pathways and gathering spaces as well as parking and circulation enhancements. Stormwater measures are key elements of the design whereas Phase I implementation alone has eliminated flooding conditions via storage for over 100,000 cubic feet of stormwater volume. The park master plan was instrumental in obtaining over $12m in public funding for the complete park and park structure renovation.

95/7 Development, Norwalk, CT

Civil Engineer for preparation of design documents for new buildings on the City's 1,000,000 SF mixed use site. Site elements included new utilities, roads, sidewalks, and grading.

360 State Street Development, New Haven, CT

Civil Engineer for the site development portion of this new 32-story residential tower and retail building. The project will make modifications to the Pitken Tunnel, which will be used as the primary means of site access. Coordinated with the various utility companies for connections to the new structure. Prepared plans for review by the various City agencies and the State Traffic Commission.

Fairfield Hills Parking Improvements, Newtown, CT

Civil Engineer for the addition of over 250 parking spaces and small athletic field area to be utilized by newly constructed youth academy and rehabilitated existing building that will house relocated town hall offices.Tasks included site layout, grading, and drainage design. Prepared construction documents.

Broad Street Roadway and Streetscape Improvements, Manchester, CT

Civil Engineer for design improvements to 3,000 lf of Broad Street, a busy town arterial roadway with significant commercial and service type of retail establishments. Tasks included roadway reconstruction, new and upgraded storm drainage facilities, and utility relocations along with preparation of preliminary plans and documents. Access was also studied and improved with the ultimate goal of promoting business activity.

Newtown Youth Academy, Newtown, CT

Civil Engineer responsible for site grading and drainage design in support of a youth sports academy. Tasks included grading site to accommodate future development as well as design and layout of a new storm drainage network.

Signal Hill Subdivision, Stonington and North Stonington, CT

Civil Engineer for the design of a 20-lot subdivision in Stonington, CT. Prepared construction documents and completed hydraulic computations for town permitting. Coordinated with Town personnel and the project attorney to abide by written settlement from previous commission.

Gateway Community College, New Haven, CT

Civil Engineer for the consolidation of the Gateway Community College from its Long Wharf and North Haven site to downtown New Haven. Prepared construction documents for this 367,500 square foot building in an urban setting. Designed a subsurface stormwater detention system to reduce run off, and also provide sustainable site LEED credit. Provided various utilities services to the two buildings. Coordinated work with CT DPW. Prepared permits and plans, including drainage for STC and FMC.

The Roberto Clemente School, New Haven, CT

Civil Engineer for the design of site improvements in support of the new school facility. Site improvements included grading, storm drainage and facility design, utility routing, signage, and development of demolition plans.

Eli Whitney Regional Vocational Technical School, Hamden, CT

Civil Engineer assisting in hydrologic anaylsis of the existing and proposed storm sewer systems for the expansion and renovation of the existing high school. Responsibilities included modeling pre and post conditions using HydroCAD and development of the drainage report.

Stonington Lumber Condominiums, Stonington, CT

Civil Engineer for the design of site improvements for a residential development. Role included utility routing, grading, sediment and erosion control measures, and demolition planning as well as preparation of all construction documents.

414 Kings Highway, Fairfield, CT

Stormwater management and site Civil Engineer for the redevelopment of a commercial property. Tasks included: preparation of design drawings, design and layout of stormwater sewer network, design of underground stormwater detention system, computer modeling of pre- and post-development conditions and assembly of stormwater management report with associated drawings.

Mike McIntyre RLA, ASLA, CLARB

Principal

Michael McIntyre brings to Stantec creative, thoughtful, and collaborative processes specializing in planning, design, engineering, and construction services for Action Sport and Adventure Environments. Mike has created over 200 successful Action Sport Environments such as Skate Parks, BMX facilities and Action and Adventure themed projects Worldwide as both a Licensed Landscape Architect and former Sponsored rider. McIntyre has helped pioneer such movements as the "skate plaza" and now the "wheel friendly-barrier free plaza" along with the development of BMX racing standards used in today's track development, and has to participated in projects from the US, Canada, South Africa, London, Israel to Grand Cayman Islands. Mike talents, designs and innovations have been featured in Time Magazine, Scholastic Books, Landscape Architecture Magazine, Transworld Media, and on the Discovery Channel.

EDUCATION

Bachelor of Science, Landscape Architecture, California Polytechnic State University, School of Architecture and Environmental Design, San Luis Obispo, California, 1994

REGISTRATIONS

Registered Landscape Architect #1122, State of CT

Registered Landcape Architect in: NY, PA, OH, DE, MD, VA, GA, CA, WY, WI, UT, TX, TN, OK, NM, NV, MT, MO, MN, MI, IA, IN, CO, AZ, AL

Licensed Landscape Contractor, State of California, Contractors State License Board

Certified General Contractor, State of California, Contractors State License Board

Registered Landscape Architect #36669, Council of Landscape Architectural Registration Boards

PROJECT EXPERIENCE

Wexford Skate Park Design Build*, Hartford, CT

Mr. McIntyre will be responsible for designing and constructing the new concrete skate park on the Center Platform of the Interstate 84 Tunnel, Hartford, CT.

Bristol-Rockwell Skate Park*, Bristol, CT

Principal-in-Charge responsible for creating a conceptual design based upon public meetings with the local skating community. He collaborated on unique design ideas such as using integral colored concrete as well as incorporating some of the large boulders that were already on site into the skate park design. Once the design was finalized he created the construction documents and performed construction observation alongside skate park builder California Skate parks to make sure that the skate park was built per plans and specifications.

Rochester Skatepark, Rochester, NY

Principal-inCharge for this Master Plan update. Stantec's Boston based Sport Group, paired with our Rochester New York Landscape Architects and Civil Engineers will work with the City of Rochester and the ROC City Skatepark Advocacy Group to further develop a previous Concept Design and bring it closer to reality. The project site is under a freeway and complex user conditions will require setbacks to maintain access for property owners (NYSDOT). Program elements will include poured-in-place concrete features and urban walking trails to create a destination that attracts the community-at-large in addition to the local and visiting skateboarders.

Hingham Skate Plaza*, Hingham, MA

Principal-inCharge for the development one of New England's most innovative skate plazas, working with the city's Engineering Department. The skate park has a progressive flow bowl design. It is approximately 7,500 sf and uses colors that integrate with the adjacent facilities. Stamped brick textures give the park an authentic urban feel. Designing the flow bowl required creativity, as the park is in a cold climate. To assure success, the footings were placed below the frost line. The park plans also included developing adequate community ingress and egress to ADA compliant facilities, as well as off-street parking spaces, a Wheel Friendly environment, and the use of green technology. The team designed the park so that the flow zone and the street plaza blended together to create a seamless design. The firm's range of services included planning, community outreach, 3-D modeling, and schematic, conceptual, and final design development; cost estimating and preparation of construction documents; and services through construction administration. The Grand Opening in January 2011 was a huge success.

Charles River Skate Park, Cambridge, MA

Principal-in-charge for this 40,000 square foot wheel friendly park, which will be the largest park in New England. Responsible for the detailed public participation process and community engagement. The park will reflect the character of Boston's skateboarding scene and prominent sports culture through graphic and sculptural art, and will maximize the opportunities to include sustainable design elements.

James Woody Bike/Skate Park*, Apple Valley, CA

Project Manager/Landscape Architect for the removal of an existing restroom, relocation and installation of a new restroom, installation of lighting and fencing around the new BMX park and existing skate park. Additional site improvements include walkways, benches, trash receptacles, signage, shade ramada, picnic benches and drinking fountains. The BMX only park is approximately 10,500 Sq. Ft. and skate park renovation and expansion was 6,000 sq. ft.

Poplar Bluff Skate Plaza*, Poplar Bluff, MO

Developed the city's first "Wheel Friendly" Skate Plaza that is pedestrian friendly with spectator viewing. The project has an urban plaza theme that integrates with the existing brick building and adjacent brick walls embracing the city's historical architecture. Responsibilities include: planning, public facilitation, schematic, conceptual, 3-D modeling, design development, construction documents and will continue services through construction administration and grand opening assistance.

* *denotes projects completed with other firms*

David Nardone RLA, LEED®AP

Sports Field Design

Mr. Nardone has 18 years of experience as a Landscape Architect. He serves as Project Manager on projects for higher academic institutions, municipal agencies, and developers for residential projects. For these project types, Mr. Nardone is responsible for site planning, schematic design through construction documents, specifications, cost estimates, site supervision and client coordination.

EDUCATION

Bachelor of Landscape Architecture, University of Rhode Island, Kingston, Rhode Island, 1993

REGISTRATIONS

Registered Landscape Architect #1280, State of MA

MEMBERSHIPS

Member, Boston Society of Landscape Architects

Member, American Society of Landscape Architects

PROJECT EXPERIENCE

Connecticut College Silfen Field Renovation*, New London, CT

Master Plan, design and construction administration for the conversion of an existing natural grass track infield to an infilled synthetic turf surface for competition NCAA field hockey and other multi-sport use.

Harvard University Athletic Campus Master Planning, Allston, MA

Comprehensive phased master planning and cost estimating services for renovation and reconfiguration of all of the university's outdoor athletic fields and tennis courts. Geotechnical and structural design considerations for mitigating serious unsuitable soil conditions and overcoming existing flood plain issues.

Phillips Academy Andover Athletic Master Plan, Andover, MA

Athletic Master Plan and phased cost estimating for the reorganization and renovation of existing athletic facilities originally designed by the Olmsted Brothers. Plans included new infilled synthetic turf fields as well as reconstructed and renovated natural grass fields.

Belmont Hill School Athletic Field Master Plan, Belmont, MA

Athletic Master Planning for the renovation and reorganization of existing athletic fields to include 2 new infilled synthetic turf fields and upgrades to existing natural grass practice and game fields.

University of Rhode Island Athletic Master Plan*, Kingston, RI

Comprehensive Athletic Master Plan for future (25-50 years) improvements to existing facilities and athletic campus expansion opportunities.

Dean College Athletic Master Plan*, Franklin, MA

Complete Outdoor Athletic Grounds Master Plan to include renovated natural grass softball and baseball facilities, 2 infilled synthetic turf fields with sports lighting and bleacher upgrades, cross country course, new parking and maintenance facility.

Salem State College Athletic Master Plan and Alumni Field Renovation*, Salem, MA

Multi- site Athletic Facilities Master Plan for renovation and expansion of existing athletic facilities.

University of Pennsylvania Franklin Field Fabric Seasonal Air Structure, Philadelphia, PA

Master Plan and feasibility study for the addition of a seasonal air structure over the playing surface at historic Franklin Field and protection of track surface used for the famous Penn Relays.

Tufts University Alumni Field Master Plan*, Medford, MA

Design for reorganization of existing athletic fields and identification of location for a new infilled synthetic turf field hockey field.

University of Regina Athletic Master Plan, Saskatchewan, Canada

Master Plan for the addition of new natural grass athletic fields. Comprehensive analysis of existing natural grass maintenance program and subsequent maintenance planning to improve the condition of existing natural and synthetic turf athletic fields.

Harvard University Ohiri Soccer Field Master Plan, Boston, MA

Master planning and design for a new NCAA soccer game and practice facility.

* *denotes projects completed with other firms*

Chris Malanga PE, CPD

Senior Mechanical Engineer

Stantec

Chris brings nearly 15 years of experience in the management, design, engineering, and construction of mechanical systems for the Central Utilities, Life Sciences, Education, Healthcare, Financial, Laboratory, and Industrial sectors. His project experience includes the design of central boiler and chiller plants, cogeneration systems, thermal storage systems, thermal distribution, clean room systems, medical gases, and the development of design documentation from the conceptual level through detailed design. His construction administration duties include shop drawing documentation, site investigations, and final turnover documentation. Chris also develops mechanical specifications for HVAC, plumbing, fire protection; layout of mechanical equipment room including chillers, boilers, air conditioning units, and fans; design of process air conditioning systems and dust collection systems; central plant design for chilled water and high/low pressure steam applications; balance of plant equipment, as well as retrofit design for existing mechanical systems to achieve greater performance/efficiency.

EDUCATION

Bachelor of Science, Mechanical Engineering, Polytechnic University, Farmingdale, New York, 1997

REGISTRATIONS

Professional Engineer #080573, State of NY

Certified in Plumbing Design (CPD) #1-71925, State of NY

MEMBERSHIPS

Member, Association of Energy Engineers

Member, American Society of Plumbing Engineers

Member, American Society of Heating, Refrigerating & Air-Conditioning Engineers

PROJECT EXPERIENCE

Pace University - Dyson Hall Renovation*, Pleasantville, NY

Directly responsible for managing the project and leading the mechanical design team for the complete retrofit of the educational lab building on campus. This project was designed in phases to maintain building operability during construction. Design included a new air cooled chilled water plant and distribution piping as well as central HVAC systems and critical exhausts.

White Plains Hospital - Central Chilled Water Plant Retrofit*, White Plains, NY

Directly responsible for leading the mechanical team in designing additional capacity for the existing chilled water and condenser water systems. This included the addition of a free cooling system, integration of existing distribution including adding redundancy (N+1) capabilities, refrigerant venting, new fuel oil piping system, and conversion of the existing distribution to a complete primary, variable flow system.

Hudson Valley Hospital - Facilities Expansion, NY

Provided QA/QC and code review for critical and non-critical systems including humidification, water treatment, and hospital environment requirements.

North Shore University Hospital - Central Utilities Plant Design, Manhasset, NY

Directly responsible for leading the mechanical design team in estimating, planning, and designing a new chilled water and high pressure steam central utilities plant. Project includes all campus wide distribution and interface to individual existing buildings. The central plant also includes a 5.6 MW natural gas turbine (cogeneration) and a full emergency power generator system.

New York University College of Dentistry - Central Chilled Water Plant Design*, New York, NY

Directly responsible for leading the mechanical design team in estimating, planning, and designing a new chilled water central plant for fully occupied building. Duties included energy analysis for various equipment models yielding maximum efficiency and ease of operation. Design also included HVAC retrofits for increased capacity and compatibility with new chilled water plant operation.

White Plains Hospital - Central Plant Redesign, White Plains, NY

Project involved new chillers, primary chilled, secondary chilled water system, and condenser water system. included new tower design, high pressure steam, low pressure steam, refrigerant venting, refrigerant purging system, fuel oil system, and emergency generator design. N+1 design for all critical systems.

The Metropolitan Museum of Art - Cooling Tower Upgrade*, New York, NY

Directly responsible for managing and design of the replacement of existing forced draft cooling towers with new induced draft cooling towers to generate approximately $1.2 million in annual energy savings. Duties included presentation to New York City Department of Commerce, Landmarks filing preparation, and full construction administration through client turnover.

Pfizer (formerly Wyeth Pharmaceuticals) - Bio-Safety Level III Laboratory, Pearl River, NY

Building 211: Directly responsible for managing and design of entire BSL-3 laboratory suite within an occupied lab facility. Duties included fume hood systems, bio safety cabinet system, glass wash system, room sterilization system, filtration systems, complete HVAC, lab gasses, dedicated vacuum and compressed air, controls sequencing, and bio waste system design.

* *denotes projects completed with other firms*

Michael Kalb PE

Electrical & Lighting Designer

Mr. Kalb's electrical engineering design experience includes the preparation of contract documents for a variety of highway, local roadway, site development, recreational facilities, parking facilities and intersection improvement projects.

EDUCATION

Bachelor of Science, Electrical Engineering, Rensselaer Polytechnic Institute, Troy, New York, 2002

REGISTRATIONS

Professional Engineer #086690, State of NY

MEMBERSHIPS

Illuminating Engineering Society of North America

PROJECT EXPERIENCE

Flowers (City) Park, New Rochelle, New York

The study included site investigation of existing lighting and electrical systems for a city park. The renovations considered included new sports lighting, walkway lighting, parking lot lighting and a new community building.

Wilton Athletic Field Complex, Wilton, CT

Mr. Kalb was responsible for electrical distribution and lighting design for two (2) athletic team rooms for a high school.

Fairfield Hills Playing Field, Newton, CT

Mr. Kalb was responsible for the design of electrical distribution for a sports lighting system. Other responsibilities included utility coordination and electrical service design.

Howell Cheney Regional Technical Vocational School, Manchester, CT

Mr. Kalb was responsible for the design of electrical, lighting and PA system for a high school softball, baseball and football field.

Hudson Riverwalk Bike Path, Manhattan, NY

Mr. Kalb was responsible for electrical distribution and lighting design for a new bike path along the Hudson River. The design included pedestrian pole lighting and illuminated bollards on a pedestrian bridge. Mr. Kalb was also responsible for the design of electrical service and controls for a motorized gate with a card access reader to the entrance of a DEP Protection facility.

Newport - The Shore Club, Jersey City, NJ

Mr. Kalb was responsible for the design of electrical and lighting systems for new condominium development. The design included decorative street lighting, plaza lighting, ice rink lighting and roof top tennis court lighting.

Randall's Island Waterfront Pathways, New York, NY

Mr. Kalb was responsible for electrical distribution and lighting design for a new bikeway walkway along the East River. Other responsibilities included obtaining approvals from NYC Department of Transportation Division of Street Lighting and NYC Department of Parks and Recreation.

Edgewater Ferry Landing, Edgewater, NJ

Mr. Kalb was responsible for the design of electrical distribution to boat slips and ferry dock for new Edgewater/Manhattan ferry. Other responsibilities included site lighting design, telephone and cable TV conduit and cable layout and utility coordination.

North Shore Park, Pittsburgh, PA

Mr. Kalb was responsible for electrical distribution and lighting design for a new waterfront walkway along the Ohio River. Other responsibilities included emergency telephone layout and utility coordination.

Local Law 68 Modifications, Manhattan, NY

Mr. Kalb was responsible for the design of electrical distribution for ferry loading platform upgrades at three (3) New York City piers. The electrical design included 5HP and 10HP lift motors.

Yonkers Waterfront Phase 2, Yonkers, NY

Mr. Kalb was responsible for the design of electrical distribution and lighting system for a waterfront project. The lighting design included roadway, landscape and pier lighting. Other responsibilities included utility coordination and construction administration.

St. Andrews Park, Brooklyn, NY

The study included site investigation of existing lighting and electrical systems for a city park. The renovations considered included new sports lighting and a new comfort station with the replacement of park electrical service and distribution.

Mantua Site Improvements 33rd & Wallace Playground, Philadelphia, PA

Mr. Kalb was responsible for electrical distribution and lighting design for basketball court, tennis court and playground lighting.

Robert Minicucci PE

Senior Associate/Electrical & Civil Engineer

Stantec

Mr. Minicucci's extensive electrical/civil engineering design experience includes the preparation of contract documents for a variety of highway, local roadway, intersection improvement, site development, lighting and electrical design projects. He also has construction inspection experience and has performed many final inspections for a variety of projects. He has worked on numerous projects and is familiar with the NEC and other NFPA codes, the FHWA MUTCD, AASHTO design manuals, traffic control systems, roadway and electrical details and design specifications.

EDUCATION

Bachelor of Science in Engineering Technology, New Jersey Institute of Technology, Newark, NJ, 1981

REGISTRATIONS

Professional Engineer #40522, State of NJ

PROJECT EXPERIENCE

Pleasure Beach Park, Bridgeport, CT

Project Engineer for the master plan of the 74-acre park located on Long Island Sound off the mainland of the City of Bridgeport. Stantec conducted ecological observations and public meetings, developed a facilities program and prepared concept alternatives for future improvements to the peninsula island park. Once a bustling amusement park decades ago, Pleasure Beach access was severed from Bridgeport's East End after a bridge fire in 1996. Anticipating water taxi service in the near future, the master plan shall set the course for new active and passive amenities while protecting endangered and sensitive plant and wildlife species that have adapted to the beachfront and grassland habitat. The first phase of the restoration plan will commence in the Fall of 2012.

Waterfront Park and Senior Center in the Village of Irvington, NY

Project Engineer responsible for designing the lighting for two baseball fields, park trails and a parking lot; and the design for the electrical service from a new on-site transformer to service the three (3) proposed lighting systems, a new comfort station, storage building and renovated senior center. Mr. Minicucci prepared contract documents including plans, specifications and cost estimates for the new construction. He was responsible for coordination with other consulting engineers and architects on the project, and Con Ed for the electrical requirements needed, including the primary service to the transformer. He also provided construction support and inspection services throughout the construction phase

Randall's Island Waterfront Pathways – Phase I, NY

Project Manager responsible for the design of the pathway electrical/lighting system and water distribution system for the fountains along the path. He performed inspection of five adjacent buildings, to determine the best location to provide the services needed for the project. He also reviewed shop drawings and cut sheets, and provided construction support services throughout construction.

Sam Curtis Park Reconstruction, Brooklyn, NY

Project Engineer responsible for reviewing electrical, mechanical and plumbing contract drawings; the review of the Mechanical, Electrical, Plumbing (MEP) Shop Drawings and catalog cuts for the project, along with resolving a number of issues during construction.

Chelsea Waterside Park & Community Building, New York, NY

Project Engineer responsible for the review and modification of construction documents for the park's electrical lighting distribution. Also responsible for the review of shop drawings and cut sheets for the electrical and water park equipment; the design of the new Community Building electrical and lighting systems and on-site electrical service equipment relocation; the building shop drawings for Mechanical, Electrical, and Plumbing (MEP); and final construction inspection.

Putnam County Bikeway III Design, Putnam County, NY

Mr. Minicucci was responsible for the right-of-way acquisition and design of a 3.5 mile bikeway. The right-of-way work on the project included surveying over 40 parcels, preparing ROW maps, obtaining property appraisals and preparing ROW taking descriptions along with construction and grading easements for 32 parcels. The project design included the construction of two precast box culvert tunnels, a prefabricated pedestrian bridge, and the reconstruction of two railroad bridges. The design of the 10 foot wide asphalt bikeway also included an intense drainage design with 17 Detention Basins and numerous culverts crossing under the bikeway to handle the stormwater runoff. Coordination with COE for the wetlands encountered and with DEP for the environmental impacts was a critical path in the project design, as were the NYS and County reviews.

Point State Park Rehabilitation, Pittsburgh, PA

Project Manager responsible for the design of a new electrical service and distribution systems for a park and museum building, including: medium voltage (5kv) switchgear, transformers, panelboards, underground vaults, conduit and cable.

Bronx Zoo Irrigation Capital Project, Bronx, NY

Project Manager responsible for the electrical design of the 2.5 acre Bison Range and the 4.5 acre Tiger Area irrigation systems. The project electrical design included providing service from two existing building distribution panels to the two new irrigation pump stations, control panels and receptacle locations. Each system included a 10 HP booster pump with disconnect switch. He also performed a number of building inspections during the design phase.

Robert Tucker AIA

HUESTIS TUCKER ARCHITECTS, LLC

Architect

Licensed architect with over 25 years of experience and extensive knowledge of residential, commercial and institutional design and construction. Specialist in traditional design, both new structures and renovations.

EDUCATION

Master of Architecture, Yale School of Architecture, New Haven, Connecticut, 1989

Bachelor of Arts, Hamilton College, New York, 1984

REGISTRATIONS

Registered Architect: Connecticut and Utah

MEMBERSHIPS

Member, American Institute of Architects

EXPERIENCE

Huestis Tucker Architects, LLC 1998-Present

Principal and Managing Member

Founded firm in 1998 with Jennifer Huestis.

As Principal, manage multiple projects from start to finish. Maintain contact with clients and contractors. Do schematic design and oversee detailing and construction documents. Make regular site visits to projects under construction. Completed projects include:

- Multiple Residential additions and renovations, 500 sf to 5000 sf, $100,000 to $3 million
- Multiple New Single family residences, custom and spec, 2500 to 8,000 sf, $1m to $4m
- Top Dog Diner, Cos Cob CT: New diner to replace historic one. 820 sf, $200,000
- CT Countertops: Showroom addition to cabinetry shop. Contextual design. Zoning board representation. Steel frame and concrete block structure. 1600 sf addition, $250,000
- Camp Sequassen Waterfront, New Harford, CT: Designed accessible waterfront area with deck, changing area, lifeguard tower, and storage. 6000 sf.
- Camp Sequassen Pavilion: Designed Post and Beam pavilion for program activities. 1000 sf.
- Deer Lake Dining Hall, Killingworth, CT: New facility for Boy Scout Camp. Timber frame Dining Room with standard wood frame for kitchen and restrooms. Assembly/Educational use. Incorporated many sustainable design concepts, including natural ventilation. 8200 sf, $3.7 million
- Deer Lake Scout Reservation Master Plan, Killingworth, CT: Programming and master planning for 250 acre camp. Schematic design for multiple buildings from Dining Hall to Administration to program pavilions. Managed design team with civil, site, landscape consultants. Zoning/wetlands representation.
- Design Within Reach Retail Store, Stamford, CT: Architect of Record. Code compliance and permitting, zoning review and signage application. 6800 sf.

Jennifer Huestis AIA

HUESTIS TUCKER ARCHITECTS, LLC

Architect

Architect with 25 years of experience extensive knowledge of residential design and construction. Specialist in traditional design, both new homes and renovations. Areas of experise includes:

- Traditional architectural design in a variety of historical vernaculars
- Wood frame construction and traditional details
- Cabinetry and millwork design
- Interior Design
- Sustainable Design and Energy Efficient Construction
- Single Family Residential
- Traditional style commercial interiors

EDUCATION

Master of Architecture, Yale School of Architecture, New Haven, Connecticut, 1989

Bachelor of Arts, Washington University, 1985

REGISTRATIONS

Registered Architect: Connecticut, New York and Massachusetts

MEMBERSHIPS

Member, American Institute of Architects

EXPERIENCE

Huestis Tucker Architects, LLC 1998-Present

Principal and Managing Member

Founded firm in 1998 with Robert Tucker. As Principal, manage projects from start to finish. Maintain contact with clients and contractors. Do schematic design and oversee detailing and construction documents. Make regular site visits to projects under construction. Projects completed throughout CT, as well as in New York and Massachusetts. Selected Project Experience:

- New Residence and Barn, New Canaan, CT: Shingle style home, with attached garage and barn, courtyard plan. 9000 sf, $3 million (est)
- New Residence, Scarsdale, NY: English Arts and Crafts Style, Stucco on wood frame. 4600 sf $1million
- Multiple Single Family Renovations/Additions: Range from 500 sf to 5000 sf, $100k to $2 m
- Schoolhouse Restaurant, Wilton, CT: Converted one-room schoolhouse into restaurant. 900 sf
- Mellon Independence Center Lobby Renovation, Philadelphia, PA: Interior renovations of office building lobby to fit within historic context of Independence Hall nearby. 4600 sf, $400,000

Robert Orr and Associates 1990-1995

Staff Architect/Project Architect

Involved with all phases of high end residential projects with and emphasis on traditional design and detail including planning, schematic design, design development, construction documents, bidding and construction administration.

Glenn Willoughby AIA

HUESTIS TUCKER ARCHITECTS, LLC

Architectural Designer

Architectural Designer with 15 years of experience in residential, commercial and institutional projects. Specialist in traditional design and detailing. Areas of experise includes:

- Construction documents production
- Wood frame construction and traditional details
- Cabinetry and millwork detailing
- Virtual modeling, Building Information Modeling
- Physical model building
- Green building and energy efficient construction
- As-built documentation, BOMA standards

EDUCATION

Master of Architecture, New Jersey Institute of Technology, 1998

Bachelor of Arts, University of New Haven, 1995

MEMBERSHIPS

NCARB, Intern Development Program

EXPERIENCE

Huestis Tucker Architects, LLC 2004-Present

Architectural Designer

Responsible for Design Development drawings, 3D modeling, and Construction Document production. Perform Construction Administration tasks including site visits, RFI responses, drawing file updates, and phone consultation with contractors. Projects included:

- High end residential additions and renovations.
- Adaptive reuse/conversion of historic schoolhouse to restaurant
- Office interiors and restaurant addition.

Kevin Roche John Dinkeloo & Associates 1998-2004

Intern Architect

Design development in drawings and physical models for commercial and institutional projects. Notable projects included:

- NYU Student Center: A ten story multifunctional building on Washington Square Park South in New York City containing a 900 seat theater, 450 seat auditorium, dining facilities, meeting spaces and a top floor special events hall.
- BSCH Bank – Madrid, Spain: A four million square ft rural corporate campus for Ciudad Grupo Santander. Environmental sensitivity and sustainability were major factors in the design of the campus, including a one million square ft. green roof.
- Dublin National Conference Center – Dublin, Ireland: A 494,000 square ft conference and exhibition center with a 2,000 seat auditorium, two 450 seat multimedia halls, banquet halls, meeting rooms and lecture areas.
- Metropolitan Museum of Art – New York, NY: Worked on various projects from a 1967 master plan. Most notably, the 30,000 square ft Greek and Roman Galleries that house 5,300 objects for permanent display.

Niko Tombras LEED®AP

HUESTIS TUCKER ARCHITECTS, LLC

Architectural Designer

Architectural Designer with 11 years of experience in residential, commercial and institutional projects. Areas of experise includes:

- Physical and virtual modeling, Building Information Modeling (BIM)
- Green building and energy efficient construction
- Construction documents production

EDUCATION

Bachelor of Architecture, Virginia Polytechnic Institute and State University, 2001

REGISTRATIONS

USGBC Member, LEED AP BD+C

NCARB, Member

EXPERIENCE

Huestis Tucker Architects, LLC 2012-Present

Architectural Designer

Projects included:

- High-end residential construction: New homes, additions and renovations.

David Jameson Architect (June- August) 2012

Architectural Designer

Projects included:

- Operational Villas for JW Marriot, Hanoi , Vietnam
- Custom Single-Family Residence, The Plains, VA.

Wnuk Spurlock Architecture 2007-2012

Architectural Designer

Projects included:

- Embassy of Cameroon, Chancery, Washington, DC
- Custom Single-Family Residence, Stinson Beach, CA
- KIA Auto Showroom, Falls Church, VA
- Alexandria Animal Hospital, Alexandria, VA
- Cherry Hill Seventh Day Adventist Church, Baltimore, MD

Sorg and Associates 2006-2007

Architectural Designer

Projects included:

- Gaithersburg Aquatic Center, Gaithersburg, MD

Responsibilities: Made schematic drawings, constructed physical models and prepared public design presentations.

ROBERGE ASSOCIATES
Coastal Engineers, LLC
611 Access Road
Stratford, CT 06615

John Roberge PE

Principal/Vice President, Coastal Engineering

Mr. Roberge provides 40 years of coastal and hydraulic engineering experience to the project team. He has wide-ranging expertise in nearshore sediment transport, beach nourishment, coastal and riverine flood hazard analysis, inspection and design of coastal structures, shoreline stabilization, dredging and dredged material disposal, sand bypassing system design and operations, regulatory permitting and marine construction. As a Professional Engineer, he has performed feasibility studies, coastal structure condition inspections, hydraulic modeling of nearshore systems, design and preparation of construction documents for steel, concrete, and timber bulkheads, stone revetment and breakwater structures, marina and mooring facilities, performed flood insurance and FIRM map revision studies, designed and managed beach nourishment programs, designed and constructed sand bypassing installations at tidal inlets throughout the US. He is proficient with numerical modeling applications typically used for such coastal and hydraulic engineering programs, including but not limited to ACES 1.07, GENESIS, RCPWAVE, SBEACH and software normally employed for FEMA coastal flood analyzes CHAMP, WHAFIS and RUNUP2.

He maintains comprehensive knowledge in beach and shoreline erosion and mitigation measures, coastal and riverineflood hazard assessment and mapping, inspection and design of coastal structures, design and improvement of marina and yacht club facilities, and related marine construction expertise. Mr. Roberge is an expert in nearshore sediment transport, wave transformation and flood hazard assessment, assessment and design of coastal structures, sand bypassing system design and operations, and dredging operations. He has performed extensive wave climatology, beach erosion, and dredging studies throughout the New England region. Mr. Roberge has published more than 30 technical papers and reports related to coastal engineering studies and projects.

As founder of Roberge Associates Coastal Engineers Mr. Roberge set a powerful benchmark of leadership, design innovation, excellence and integrity.He culled valuable concepts and philosophies from his diverse past professional experiences as a Research Hydraulic Engineer at the US Army Corps of Engineers Waterways Experiment Station and as an instructor at Worcester Polytechnic Institutewhile affiliated with the Alden Research Laboratory. He is a recognized authority on sand bypassing system design and dredging operations, design of dredged material disposal facilities, sedimentation processes, erosion control, shoreline stabilization, and related construction activities. He has worked extensively with the US Army Corps of Engineers, US Navy, US Coast Guard, FEMA and a broad range of State agencies and private clients.

EDUCATION

Master of Engineering, Coastal and Oceanographic Engineering, University of Florida, Gainesville, Florida, 1973

Bachelor of Science, Mechanical Engineering, Tufts University, Medford, Massachusetts, 1972

REGISTRATIONS

Professional Engineer, State of CT

Professional Engineer, State of MA

Professional Engineer, State of RI

Professional Engineer, State of NH

MEMBERSHIPS

Member, American Society of Civil Engineers (ASCE)

Memeber, CT Society of Professional Engineers

Structural Engineers Coalition (SEC)

Associate Member & Director, Connecticut Harbor Management Association: Associate Member (CHMA)

NAUI/P DI Scuba Certification

ROBERGE ASSOCIATES
Coastal Engineers, LLC
611 Access Road
Stratford, CT 06615

Tim DeBartolomeo PE, SECB

Principal/Vice President, Structural Engineering

Mr. DeBartolomeo has over 25 years of experience in structural engineering and the design of waterfront structures. He maintains extensive expertise in the design of buildings and other structures such as bridges, retaining walls, seawalls and bulkheads, and port facilities such as bulk unloading terminals, offshore structures, fendering systems for oil tankers, ferry docking systems, marinas, and other commercial and industrial waterfront structures.

His design experience spans commercial, industrial, and residential structures that have included a variety of foundation and geotechnical designs, traditional shallow foundations, deep foundations including piles, caissons, drilled shafts, and soil and rock anchor systems. His structural design expertise includes development of flood loads, seismic loads and wind loads on buildings and other structures. His expertise extends to the engineering analysis for structural steel design, reinforced concrete design, prestressed concrete design, and timber design. Mr. DeBartolomeo maintains extensive expertise in the development of vehicular loading for bridges and similar structures, and development of vessel impact loading for docking and fender systems. His experience extends to forensic investigation and analysis of collapsed and damaged structures and he has been called to provide expert witness testimony. In addition, he has extensive experience in investigation and evaluation of existing structures as they relate to code compliance and structural capacity.

As Vice President of Structural Engineering, and as part of the executive leadership team, Mr. DeBartolomeo utilizes his salient analytical abilities for the development and implementation of design standards, coordination and review of structural design work prepared by engineering staff, review of structural calculations and design specifications, review of design drawings, and maintaining client relations. Mr. DeBartolomeo maintains a Project Management role and is also responsible for preparation and oversight of structural calculations and design specifications, and preparation of contract documents. His responsibilities extend to the construction phase of projects and include assisting the client during the bid process, evaluation of bids, review of construction methodologies, coordination and review of opinion of probable costs, lead construction project meetings, preparation of meeting minutes, coordination and review of contractor submittals, review, approval of contractors payment requisitions, and preparation of as-built documents.

Mr. DeBartolomeo is intimately familiar with the regulatory requirements for waterfront projects, and has secured numerous permit authorizations from agencies in Connecticut and New York State. He is an active member of the Connecticut Society of Civil Engineers where he is a member of the Connecticut Department of Environmental Protection Liaison Committee that deals with regulatory issues related to waterfront structures. Mr. DeBartolomeo currently serves as Vice Chairman on the Town of Fairfield, CT Flood and Erosion Control Board.

EDUCATION

Bachelor of Science, Civil (Structural) Engineering, University of Connecticut, Storrs, Connecticut, 1987

REGISTRATIONS

Professional Engineer, State of CT

Board Certified Structural Engineer, Structural Engineering Certification Board, 2008

MEMBERSHIPS

Member, American Society of Civil Engineers (ASCE)

Structural Engineers Coalition (SEC)

American Institute of Steel Construction (AISC)

Coasts, Oceans, Ports & Rivers Institute (COPRI)

Appointed to Town of Fairfield, CT: Flood & Erosion Control Board, 2011

Department of Energy and Enviromental Protection (DEEP) Liasion Committee

ROBERGE ASSOCIATES
Coastal Engineers, LLC
611 Access Road
Stratford, CT 06615

Devin Santa PE, SECB

President

Mr. Santa provides more than 17 years of coastal and structural engineering experience and focuses on delivering solutions with compelling strategies. He maintainsextensive expertise in hydrographic surveying, data acquisition, and mapping, as well as structural engineering. His professional career includes the management of large design programs that have involved: rehabilitation of waterfront structures; developmentand and design of marina facilities; design of residential, commercial, and industrial waterfront structures; beach nourishment; coastal structures and shoreline stabilization; dredging and dredged material relocation; regulatory permitting; and marine construction.

As a Professional Engineer and Certified Hydrographer, he has proven strength in coastal projects that have involved: feasibility studies; coastal structure condition inspections; hydrographic surveying; design and preparation of construction documents for steel, concrete, and timber bulkheads, stone revetment and breakwater structures; and design of marina and mooring facilities. He is proficient with numerical design applications, typically used for such coastal and structural engineering, hydrographic surveying and dredging design programs. These include, but are not limited to HYPACK, Land Development Desktop, FEMA coastal flood analyzes, CHAMP, and industry standard pile and bulkhead design applications. Mr. Santa maintains comprehensive knowledge and proficiency in beach and shoreline surveying, hydrographic surveying and mapping, inspection and design of coastal structures, design and improvement of marina and yacht club facilities, and related marine construction expertise. His academic and professional experience has been focused in structural engineering where he manages projects with well defined goals and systematized time-lines. His strategic methodologies havesuccessfully been applied in the design of timber, steel, and concrete bulkhead structures, foundation structures exposed to tidal and wave induced load conditions, vessel mooring systems, jib crane and travel-lift facilities, pile foundation and anchor pile systems, and related waterfront structures.

Mr. Santa is well versed with the regulatory requirements for waterfront projects, and has successfully obtained permit authorization from agencies in Connecticut, New York, Rhode Island, and Massachusetts. He has exploited his extensive on-the-water experience gained as a licensed Captain to assist clients in the optimization of marine facility layout, including vessel hauling and launching facilities. His wide-ranging expertise in hydrographic surveying and mapping contributes significantly to the numerous dredging, channel design, and navigation and mooring facility design projects which have been completed by RACE. Mr. Santa has provided expert testimony regarding marina facility design and mooring facility planning and function and is recognized as an expert in the design of those facilities.

As President, Mr. Santa leads RACE with integrity and by example where he and his executive team value personal growth for the entire staff. RACE engineers are empowered not only through this strong leadership but, with the offering of professional development excercises where as a company and individually they achieve extraordinary results.

EDUCATION

Bachelor of Science, Civil (Structural) Engineering, Northeastern University, Boston, Massacusetts, 1995

REGISTRATIONS

Professional Engineer, State of CT

Professional Engineer, State of NY

Certified Hydrographer, American Congress of Surveying and Mapping, 2005

Board Certified Structural Engineer, Structural Engineering Certification Board, 2008

USC, 100-Ton Near Coastal Master License

MEMBERSHIPS

Member, American Society of Civil Engineers (ASCE)

Structural Engineers Coalition (SEC)

Connecticut Harbor Management Association: Associate Member (CHMA)

Society of Naval Architects & Marine Engineers (SNAME)

American Congress of Surveying and Mapping (ACSM)

Richard Couch PE

Environmental Services

As an environmental engineer, Mr. Couch manages and completes Transaction Screens, Phase I Site Assessments, Phase II Site Investigations, and Phase III Remediation designs for many types of facilities, sites and establishments. In addition, Mr. Couch has experience in and manages the transportation and disposal of clean fill, polluted soil, contaminated soil, and hazardous material encountered in excavation activities during construction. As a Member of the firm he is responsible for the operations of the company, client management and acts as a liaison for project teams.

EDUCATION

MS, Environmental Engineering, University of New Haven,1988

BS, Civil Engineering Greenwich University, 1981

REGISTRATIONS

Professional Engineer, States of:CT, MA, RI, NH, VT, ME, FL, TX

MEMBERSHIPS

American Society of Civil Engineers

National Society of Professional Engineers

International Code Council

PROJECT EXPERIENCE

MDC Clean Water Project Sewer Separation, Park River Contract 3, Hartford, CT

Project Manager – Supervised the environmental services for the completion of Site Assessment Plans as a process of characterizing soil for disposal classification. Team coordination. Completing Phase 1 assessments, and Phase 2 subsurface borings with soil and groundwater sampling. Laboratory analysis and interpretation of the date. Determination of the regulatory fate of the soils and preparing specifications for soil and groundwater.

MDC Clean Water Project Sewer Separation, Granby Contract 1, Hartford, CT

Project Manager – Supervised the environmental services for the completion of Site Assessment Plans as a process of characterizing soil for disposal classification. Team coordination. Completing Phase 1 assessments, and Phase 2 subsurface borings with soil and groundwater sampling. Laboratory analysis and interpretation of the date. Determination of the regulatory fate of the soils and preparing specifications for soil and groundwater.

New London Parade, New London, CT

Project Manager – This project involved completing a Site sampling the stockpiled soils in the soil containment yard of CB Utilities, submitting the soils for laboratory analysis for the disposal criteria of available disposal landfills. The soil was loaded into trucks engaged directly by MCA and transported to the most appropriate landfill for disposal.

MDC Clean Water Project Sewer Separation Project, Project No. 2008-91, Hartford, CT

Project Manager – This project involved sampling the stockpiled soils in the soil containment yard of CB Utilities, submitting the soils for laboratory analysis for the disposal criteria of available disposal landfills. The soil was loaded into trucks engaged directly by MCA and transported to the most appropriate landfill for disposal.

MDC Clean Water Project Sewer Separation Project, Albany Contract 3, Hartford, CT

Project Manager – Supervised the environmental services for the completion of Site Assessment Plans as a process of characterizing soil for disposal classification. Team coordination. Completing Phase 1 assessments, and Phase 2 subsurface borings with soil and groundwater sampling. Laboratory analysis and interpretation of the date. Analysis included determination of the delineation of contaminated soil and clean fill prior to excavation to assist in efficient excavation. Determination of the regulatory fate of the soils and preparing specifications for soil and groundwater

Solid Waste Facility - Milford, CT

Project Manager – This project involved completing a Site management of a CT Establishment under Transfer of a solid waste transfer station. The transfer station had direct connection to a railroad spur. The design included railroad sidings, land surveying, groundwater modeling. Including soil and groundwater sampling, permitting with the CTDEEP for solid waste, Storm water discharge. The on-site investigation included borings with groundwater monitoring wells for groundwater analysis.

Industrial Property - Derby, CT

Project Manager – Soil Remediation - The project included an Environmental Site Assessment (ESA), Ground Penetrating Radar, UST removal, subsurface investigation of soil and groundwater volatile and semi volatile organic compounds, total petroleum hydrocarbons, metals, off-site investigation, contaminant fate modeling, remedial design, and closure plan. The MCA team completed a comprehensive risk assessment including mapping of potable water wells.

Rafael Martinez LLS

Survey Manager

Mr. Martinez is a Licensed Land Surveyor with over 30 years of surveying experience, including fifteen as a Survey Manager. Throughout his career Mr. Martinez has performed and managed the survey of commercial and residential land developments, urban and suburban sewer systems, waste water treatment plants, telecommunication sites, airport expansions, rail, bridge and roadway improvements and large-scale and small-scale housing developments. His surveying experience includes both field work and office work.

Mr. Martinez's area of expertise includes; boundary and topographic surveys, construction stakeouts, as-builts, volumetric calculations, preparing easements and descriptions, and staking of applicable easements for both private and public sector clients. Local, State and Federal organizations which Mr. Martinez has completed and managed surveys for include: The State of Connecticut, Department of Transportation (CTDOT), The Metropolitan District Commission (MDC), Rhode Island Department of Transportation (RIDOT), Department of Homeland Security (DHS) and U.S. Army Corps of Engineers (USACE). As a Member of MCA, Mr. Martinez is directly responsible for the business operations and strategic planning efforts. As a Client and Project Manager Mr. Martinez acts as the liaison between Design Engineers, General Contractors, Architects and Sub-Contractors. In addition, Mr. Martinez coordinates schedules, delivery methods and submittals, and the implementation of QA/QC plans and measures.

EDUCATION

Hartford Graduate Center,1993

Universidad Autonoma De Santo Domingo, School of Civil Engineering,1976

REGISTRATIONS

Licensed Land Surveyor, State of CT

OSHA 40-Hour Hazardous Waste 1910 CFR 120

MEMBERSHIPS

Member, Connecticut Association of Land Surveyors

PROJECT EXPERIENCE

Hill Central School and Sheridan Magnet School, New Haven, CT

Survey Project Manager - MCA completed vertical and horizontal survey with a boundary and topographic survey of the sites which was certified To Class A-2/T-2 Accuracy.

Sheriden Magnet School, New Haven, CT

Survey Project Manager – MCA completed a boundary and topographic survey of the site which was certified to Class A-2/T-2 accuracy.

Seymour High School, Seymour, CT S

Survey Project Manager - Boundary and Topographic Survey Of 26-Acre Property, certified To Class A 2/T-2 Accuracy.

Mattabasset Wastewater Treatment Plant,Cromwell, CT

Survey Project Manager - MCA completed Boundary and Perimeter Survey conforming to class A-2 Accuracy. The survey depicts meets and bounds and the existing monuments on the corners of the property.

Judicial Building, State of CT Project, Hartford, CT

Survey Project Manager - Completed a Class A-2 accuracy boundary and Class T-2 accuracy topographic survey with utility research.

Old Saybrook High School, Old Saybrook, CT

Survey Manager - MCA conducted a boundary and topographic survey of the 35 acres parcel. Location of surface and underground utilities in the field was complemented with the gathering of existing mapping from the utility companies. The delineation and location of wetlands was part of the scope of work as well as location of soil borings. A network of ground control points for vertical and horizontal reference was established throughout the site with benchmarks for future construction use.

Boom Bridge North Stonington, CT

Survey Project Manager - MCA completed a topographic and planimetric survey to A-2 accuracy to provide horizontal (Connecticut Grid System) and vertical control (FEMA Datum) in the vicinity of the bridge. The topographic survey extended approximately 300 feet in all directions from the bridge. Roadway centerline, curb lines, drainage structures, guardrail and existing traffic signage were located for 500 feet, in all directions from the bridge along Boom Bridge Road. R.O.W. lines were to A-2 accuracy. In addition, utilities, and State & Federal Wetlands were located. Survey files were prepared in Microstation and met CTDOT survey standards.

Amtrak Rail Stations, Guilford, Branford and Clinton, CT

Survey Project Manager - Supervised the completion of a boundary and topographic survey to Class A-2 and T-2 accuracy including full utility location. Coordinated field crews, office staff, schedules and QA/QC.

Route 64 & Route 188, Middlebury, CT

Survey Project Manager - Supervised, set the performance schedules, maintained quality control and coordinated all tasks associated with the survey. Mr. Martinez coordinated the police protection necessary to conduct the survey safely and according to state law.

Norwalk Bus Terminal Project, Norwalk, CT

Survey Project Manager - Performed Topographic, Boundary Surveys and Easements. Survey included full utility location.

New London Parade Ground, New London, CT

Survey Project Manager - Performed Topographic, Boundary Surveys and Easements. Survey included full utility location.

Joseph Reing LLS

Senior Surveyor/CADD Specialist

Mr. Reing is a Licensed Land Surveyor with over 25 years of surveying experience. His experience includes field work, office calculations and mapping, easements and right-of-ways. Throughout his career, Mr. Reing has worked on projects that range from local property research and title surveys in rural areas to heavy infrastructure construction surveying projects in urban and sub-urban areas. Mr. Reing's project experience includes large-scale and small-scale housing developments, commercial and residential land developments, urban and suburban sewer systems upgrades, waste water treatment plants, telecommunication towers and sites, Amtrak Railroad, gas transmission lines, bridges and roadway improvements. His surveying experience includes both field work and office work.

Mr. Reing's area of expertise includes CADD operations, boundary and topographic surveys, A-2/T-2 surveys, ALTA surveys, construction stake out and as-builts, preparation of easement surveys and property descriptions, establishing survey control points, establishing survey and construction baselines and volumetric calculations. He has knowledge and experience working in and producing deliverables in AutoCAD, Civil 3D and MicroStaion DGN V8. Agencies for which Mr. Reing has produced surveys for The State of Connecticut Department of Transportation (CTDOT), The Metropolitan District Commission (MDC), Department of Homeland Security (DHS) and U.S. Army Corps of Engineers (USACE).

EDUCATION

AS, Civil Engineering, University of New Haven,1996

University of Connecticut, 1981

Southern Connecticut State University, 1977

REGISTRATIONS

Licensed Land Surveyor, State of CT

MEMBERSHIPS

Member, Connecticut Association of Land Surveyors

PROJECT EXPERIENCE

Hill Central School and Sheridan Magnet School, New Haven, CT

Senior CADD Specialist - MCA completed vertical and horizontal survey with a boundary and topographic survey of the sites which was certified To Class A-2/T-2 Accuracy.

Sheriden Magnet School, New Haven, CT

Senior CADD Specialist - MCA completed a boundary and topographic survey of the site which was certified to Class A-2/T-2 accuracy.

Seymour High School, Seymour, CT

Senior CADD Specialist - Boundary and Topographic Survey Of 26-Acre Property, certified To Class A-2/T-2 Accuracy.

Mattabasset Wastewater Treatment Plant,Cromwell, CT

Senior CADD Specialist - MCA completed Boundary and Perimeter Survey conforming to class A-2 Accuracy. The survey depicts meets and bounds and the existing monuments on the corners of the property.

Judicial Building, State of CT Project, Hartford, CT

Senior CADD Specialist - Completed a Class A-2 accuracy boundary and Class T-2 accuracy topographic survey with utility research.

Old Saybrook High School, Old Saybrook, CT

Senior CADD Specialist - MCA conducted a boundary and topographic survey of the 35 acres parcel. Location of surface and underground utilities in the field was complemented with the gathering of existing mapping from the utility companies. The delineation and location of wetlands was part of the scope of work as well as location of soil borings. A network of ground control points for vertical and horizontal reference was established throughout the site with benchmarks for future construction use.

Boom Bridge North Stonington, CT

Senior CADD Specialist - MCA completed a topographic and planimetric survey to A-2 accuracy to provide horizontal (Connecticut Grid System) and vertical control (FEMA Datum) in the vicinity of the bridge. The topographic survey extended approximately 300 feet in all directions from the bridge. Roadway centerline, curb lines, drainage structures, guardrail and existing traffic signage were located for 500 feet, in all directions from the bridge along Boom Bridge Road. R.O.W. lines were to A-2 accuracy. In addition, utilities, and State & Federal Wetlands were located. Survey files were prepared in Microstation and met ConnDOT survey standards.

Amtrak Rail Stations, Guilford, Branford and Clinton, CT

Senior CADD Specialist - Mr. Reing rendered and supervised the AutoCAD drawings of the survey for three Amtrak Train Station Sites as part of the Northeast Electrification Project. The survey included a wetland location survey and mapping of the three sites for the proposed paralleling stations and access roads, including inland and tidal wetlands.

Route 64 & Route 188, Middlebury, CT

Senior CADD Specialist - MCA completed the survey of a sound barrier wall for CTDOT. The survey included Stake-out, baseline, drainage, cleaning limits, cut & fill stations. Required tying in to the Connecticut grid system. Established temporary benchmarks for elevation control.

Norwalk Bus Terminal Project, Norwalk, CT

Senior CADD Specialist - MCA performed topographic, boundary surveys and easements. Survey included full utility location.

Victoria Man LEP

Environmental Services

Ms. Man is a Licensed Environmental Professional with more than 20 years of experience in Connecticut. She has comprehensive knowledge of remedial investigation techniques and strategies, federal and state regulatory requirements, and analytical chemistry. She specializes in tailoring project scopes of work to meet client objectives in a cost-effective manner, while satisfying regulatory requirements and quality objectives. Ms. Man has completed numerous projects involving in-field chemical testing of soil and groundwater for petroleum products, organic chemicals and metals, to determine contaminant presence and distribution, direct cleanups, design and install remedial systems simultaneously with the exploration phase, or to test and optimize operating remedial systems. Also, as manager for chemical testing services, she participated in numerous projects to develop sampling and analytical programs, advised personnel on appropriate sampling and testing procedures, supervised outside laboratories in their execution of analyses, and reviewed laboratory data for quality assurance and quality control (QA/QC) concerns. She is co-developer of STERDI™, an innovative methodology for low-cost, fast-start site remediation.

EDUCATION

BS, Biology/Chemistry, University of Connecticut, 1980

OSHA 8-Hour Supervisor Training 29CFR 1910.120

OSHA 40-Hour Safety Training (1988), 29CFR 1910.120 with 8- hour refreshers annually thereafter

REGISTRATIONS

Licensed Environmental Professional, No. 17, State of CT

PROJECT EXPERIENCE

MDC Clean Water Project - Sewer Separation, Albany Contract 3

Environmental Specialist - Completed corridor study and an environmental assessment using NEPA and CTDOT Task 110, 210, and 310 for a 3-mile route. The route was designed by Stearns and Wheeler for sanitary, storm and potable water construction.

MDC Clean Water Project Sewer Separation, MDC Project No. 2008 - 91 – Hartford, CT

Environmental Specialist - This involved sampling the stockpiled soils in the soil containment yard of CB Utilities, submitting the soils for laboratory analysis for the disposal criteria of available disposal landfills. The soil was loaded into trucks engaged directly by MCA and transported to the most appropriate landfill for disposal.

Environmental Consultant, various Consulting Firms in Connecticut

Environmental Specialist - Project support on an as- needed basis. Work completed includes Phase I, II and III environmental site assessments, preparation/ review/finalization of project reports, preparation of Environmental Condition Assessment Forms and remedial action specifications, review of remedial contractor bids, recommendations for contractor selection, soil vapor surveys, and soil and groundwater sampling.

PUBLICATIONS

EPOC, "Laws, Regulations and Policies Relating to CT Licensed Environmental Professionals", April 2009

EPOC, "Verification/Audit Short Course", December, 2008

EPOC, "Expedited Site Assessment: A Three- Dimensional Approach", November 2008

Aerial of Silver Sands State Park

Relevant Project Experience

Stantec's design of quality parks, recreation facilities, open spaces, greenways and trails is built upon our sensitivity to function, aesthetics and the environment. Our landscape architects, planners, biologists, ecologists, architects, and engineers work together to provide comprehensive design services. For municipalities throughout the State and region, our landscape architects have led our team in transforming, enhancing and restoring major municipal parks through master planning and subsequent phases of implementation. Milford's 330-acre Eisenhower Park master plan was completed in 2007 and since then over $1,500,000 in improvements have been realized, funded by private and non-municipal sources. Bridgeport's Pleasure Beach Park master plan was completed in 2012 accompanied by our Threatened and Endangered Species Management Plan. After nearly 17 years, Pleasure Beach Park will receive its first public visitors in the Fall of 2013. Silver Sands State Park will realize a significant restoration in the coming years and the former Tar Ponds in Sydney, Nova Scotia will open as a new 125-acre municipal park in the Spring of 2014. Jones Beach State Park, on the heels of Super Storm Sandy, will undergo significant landscape, concession building and circulation enhancements to complement our phased architectural restoration of the historic West Bath House by our in-house architectural team. Scalzi Park's phased improvements were shaped by the modified master plan and have received high marks from neighbors and visitors to one of Stamford's most important park facilities. Our team, as assigned to Cummings Park and West Beach, led Stantec in these highly successful park enhancement projects.

Stantec has planned, designed and inspected well over $1 billion in municipal park improvements in the Tri- State area alone. We are an award winning firm, recipients of awards from the American Society of Landscape Architects (ASLA), Engineering News Record, ACEC and New York Construction News. Relevant to this RFP, Stantec completed or is currently consulting on the following assignments:

- Recontruction of the Great Lawn, New York, NY
- Eisenhower Park Master Plan, Milford, CT
- Pleasure Beach Park Master Plan, Bridgeport, CT
- Lighthouse Point Park Master Plan, New Haven, CT
- Mill River Park, Stamford, CT
- Heritage Field - Macombs Dam Park, Bronx, NY
- Flowers (City) Park, New Rochelle, NY
- Fort Washington Park, New York, NY
- Restoration of Soldiers' and Sailors' Monument, New Haven, CT
- Reconstruction of Scalzi Park, Stamford, CT
- Master Plan for Cranbury Park, Norwalk CT
- Jones Beach State Park West Bathhouse, Wantagh, NY
- Hither Hills State Park, Montauk, NY
- Silver Sands State Park, Milford, CT
- Mount Greylock Historic Parkway Rehabilitation, North Adams, MA

The Reconstruction of the Great Lawn and Surrounding Landscape in Central Park

NEW YORK, NEW YORK

Stantec provided survey, landscape architectural and engineering services for the preparation of contract documents for the reconstruction of the Great Lawn and surrounding landscapes in Central Park, one of New York City's premier public open spaces.

The 55-acre project had numerous elements. The design included new path configurations, decorative pavements, curbing, benches, fencing, trees, shrubs, ground cover, as well as perennial and aquatic plantings. Athletic fields and courts were reconstructed, and Turtle Pond was reconfigured to include new dock/ nature blind.

The firm also designed new storm drainage and water service systems for a major portion of the project area. The firm prepared the required application to the Department of Environmental Protection for site connections.

The $17 million capital project required extensive coordination with the Central Park Conservancy and other project consultants. Contract documents including survey, demolition, and design plans and details were completed entirely in AutoCAD on an accelerated schedule.

Eisenhower Park Master Plan

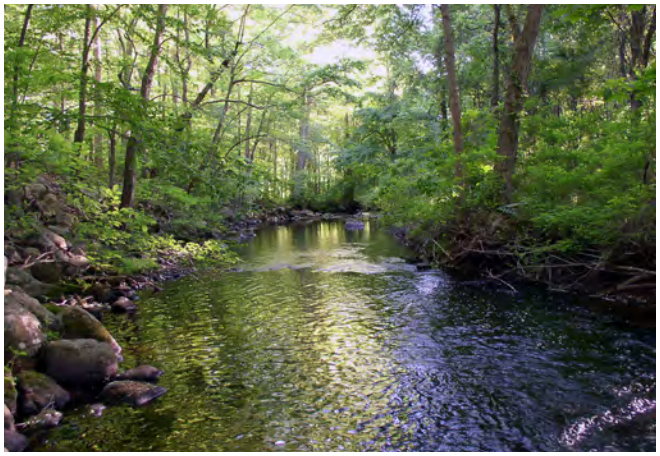
MILFORD, CONNECTICUT

Following extensive study, a Master Plan was prepared for the development and preservation of this 330-acre recreational park and open space with amenities appealing to visitors of all ages in all seasons.

The objective of the project was to create a four-season park with recreation amenities, as well as preservation of woodlands, topography and wetlands. Safety, maintenance, aesthetics and storm water management were key planning issues.

The park currently contains a softball field, community garden, playground, fishing pond, tennis courts, walking trails and a 3/4 mile length of the Wepawaug River. The firm presented many passive and recreational amenities to be considered by the City of Milford as enhancements to the current park.

To prepare the Master Plan, Stantec prepared an inventory of the site, provided detailed maps documenting existing conditions, studied the environmental implications of development and, with the City, determined the program elements of the project and how they could best be met. The Master Plan report contained a program; summary of environmental resources and existing conditions; a full rendered plan and enlargements of key areas; a phasing plan; and cost schedule. The Master Plan was completed in the Spring of 2006.



Aerial Rendering

Master Plan

Pleasure Beach Park Master Plan

CITY OF BRIDGEPORT, CONNECTICUT

Stantec is providing master planning services for Pleasure Beach Park, a former amusement park and popular beach destination for Bridgeport residents and visitors throughout the northeast. A carousel, roller-coaster, play house, white sand beaches, play fields, food concessions and amusements provided unparalleled entertainment along the Connecticut coastline dating back to the 19th century.

Since the 1950's, the once renowned 45-acre park destination began to decline in stature. In 1996, the sole access point from the City of Bridgeport, a rotating steel and wood bridge over navigable waters, was lost to a fire. Vehicular and pedestrian access from the nearby community was now severed. However, Pleasure Beach is a peninsula accessible from the nearby Town of Stratford albeit by a restricted access, mile-long beach path.

The City aims to reactivate the park with passive and active recreation amenities, beach access and protection of environmentally sensitive tidal wetlands, beach grass, and piping plover habitat. Stantec is providing the requisite landscape architecture and ecological design services to restore access and appropriate public recreation to Pleasure Beach. Our master plan and feasibility report will identify existing conditions, opportunities and constraints, and regulatory framework and provide illustrative design plans and support graphics. Our team will develop an implementation plan outlining capital costs and priorities over a specified period of time. Our team will also develop a business plan outlining opportunities to generate revenue for the parks ongoing staffing, security, maintenance, and future capital investment.

All photos are of existing conditions

Before

After

Lighthouse Point Park Master Plan
NEW HAVEN, CONNECTICUT

Since Lighthouse Point Park is one of the most popular spots along the East Coast for bird watching enthusiasts, the Master Plan also included consolidation of the trail system and enhancements in the form of native understory plantings for wildlife habitat.

Stantec performed the site analysis, public outreach and park rehabilitation planning services for Lighthouse Point Park in New Haven, Connecticut. This 83-acre waterfront park is one of the City's most popular recreation destinations, home to a National Register of Historic Places lighthouse and one of less than 100 remaining antique carousels still in operation today.

The park is located at the eastern point of New Haven Harbor and contains a beach, shorefront promenade, pavilions and numerous public buildings and maintenance structures. Through site evaluation and staff and public meetings, Stantec developed a program plan and master site plan to address needed improvements to circulation patterns and parking layout as well as overall aesthetic and passive recreation enhancements. The Master Plan includes a phased strategy for consolidation and re-organization of roadways, a perimeter parking scheme with room for weekend and holiday overflow parking, bio-swales for storm water treatment, redesign of the promenade, and functional, aesthetic and program improvements to the park buildings.

Master Plan

All photos are of existing conditions

Mill River Park: Phase 1 – Construction Administration

STAMFORD, CONNECTICUT

The construction of Phase 1 of Mill River Park continued the transformation of the river's edge in Downtown Stamford providing vital open space for residents, employees and visitors to the City.

Much has been accomplished to date including the Army Corps of Engineers' removal of the dam and concrete walls that had confined the river for many years effectively restoring the river's natural condition. Phase 1 of the park plan will further enhance the natural environment with trees and plantings and provide civic spaces for gatherings and events. The Mill River Park is an important asset to the City of Stamford and Stantec provided the requisite construction administration and design support services to achieve successful implementation of the City's vision.

The design included granite clad sepentine retaining walls which followed the river's alignment on the east side. The west side is sloped down to the river. Monumental granite grand stairs lead down to the river providing seating and overlook opportunities. An existing city street was transformed into an esplanade with granite pavers, street trees and lighting to connect the park to the city streets. New walking paths provide access to the river and are part of the overal trail system along the waterfront. Custom benches were installed along pathways. New lighting and irrigation was installed throughout the park. Storm water measures were installed to reduce runoff and suspended solids using infiltration trenches and grit chambers.

Services included construction administration services with the review of shop drawings and submittals, review of payment requisitions and potential. Requests for Information were addressed and design clarification was provided. Bi-monthly construction progress meetings were held to review construction progress, review the project schedule and discuss project issues. Periodic site visits were conducted to observe construction progress and quality of construction.

All photos are during the construction of the site

Heritage Field - Macombs Dam Park

BRONX, NEW YORK

When the City agreed to allow the Yankees to build a new stadium in the Bronx, they promised the community that the former site would be redeveloped to not only replace any parkland lost to the new structure, but also to enhance and even improve on the community resources available to the neighborhood.

In doing so, the history and heritage of the original site could not be forgotten, making proper commemoration of the original Yankee Stadium another top priority of the new site's design. As such, the plans for Macombs Dam Park took shape, focusing on intensive community involvement to create a public recreation area that would be resilient against yet accommodating of the many visitors and seasonal fluctuations of the site, attractive as a neighborhood centerpiece, and reflective and respectful of the site's history.

The resulting design for the 11-acre park included several ball fields, track and field facilities, and other amenities such as a new public restroom and landscaped berms, overlooks, and built-in bleachers for visitors and spectators. As part of the project, the pedestrian corridor along 157th Street was upgraded and Ruppert Plaza, which unites Heritage Field with the adjacent rooftop park, was transformed into an exciting gathering space and promenade with distinctive pavement, a playground, and access to major park features, the new stadium, and public transportation. Throughout the area, artifacts and nods to the site's former use mark the landscape and pay proper homage to its history.


Macombs Dam Park

Flowers (City) Park

NEW ROCHELLE, NEW YORK

In April 2007, a Nor'easter dumped 7 inches of rain in a 24 hour period over New Rochelle, NY. This storm event, which was greater than the 100 year storm, flooded City Park and caused damage to the existing synthetic soccer surface. FEMA/SEMO were called in to evaluate the damage and awarded the City approximately $2 million to clean up the damage and replace the field.

Stantec was retained by the City to first develop a Master Plan and then to design and prepare construction documents for the Phase I work which included the replacement field. The Master Plan evaluated the layout of all fields to minimize overlap and maximize the playability of the recreational fields. The plan called for the realignment of the softball and baseball fields and the moving of a softball field. The damaged soccer field would be replaced at the same location and the football field would be enlarged to accommodate soccer as well as football. New sports lighting would be added for fields without lights. In addition to athletic fields, a system of new walking trails connected the fields to the picnic pavilion, relocated basketball court and playground with water spray feature. Parking areas were realigned and some additional parking spaces would be provided.

An extensive public participation program was utilized during the Master Plan process to solicit input from the park's stakeholders. Stantec assisted the City in applying for funding under the Westchester County Parks Department Legacy Program. Stantec's services included landscape architecture, civil engineering, surveying and electrical engineering, and construction administration.

Aerial Rendering

Green infrastructure: storm water infiltrators

Fort Washington Park

NEW YORK, NEW YORK

For this ongoing project, Stantec has prepared a master plan and is now providing comprehensive design services for Phase I improvements for active and passive recreational improvements to historic Fort Washington Park, Riverside Park North and portions of Inwood Hill Park.

The principal objectives of the Stantec project are to upgrade and supplement existing recreational facilities, to enhance scenic and landscape quality, to improve pedestrian connections, and to extend the Hudson River Greenway north of the George Washington Bridge. The initial phase involved developing a master plan and preparing a final scope of work for the Phase I design of comprehensive improvements. The master plan included analysis of existing usage patterns, demographic trends, effects of proposed development on usage, circulation patterns, constraints, opportunities, security and safety concerns, types and conditions of vegetation, erosion and drainage issues, and condition of existing facilities.

One of the project's chief priorities is to improve pedestrian connections from the surrounding community to park facilities, and along the shoreline to Dyckman Street at the Park's northern end. Phase I improvements will include upgrades to park utilities; entrances, paths, pedestrian bridges, landscape restoration, and drainage; playgrounds and recreational facilities for baseball, tennis, soccer, and volleyball; a kayaking launch; official vehicular access; a new comfort station and upgrades to comfort stations to accommodate ADA compliance; and restoration and enhancement of historic park structures.

All photos are of existing conditions

Restoration of Soldiers' and Sailors' Monument

NEW HAVEN, CONNECTICUT

This historic landmark required a thorough evaluation to determine the immediate restoration needs and those that can be phased to completely restore and preserve the Monument.

Stantec evaluated Soldiers' and Sailors' Monument in East Rock Park, New Haven and prepared a master plan for the preservation and refurbishment of the 19th Century landmark, recognizing four major wars leading to and including the Civil War. The 116-foot-tall stone monument on the summit in East Rock Park, over 300 feet above downtown New Haven, features bronze statues, plaques, and the names of New Haven war veterans.

The goal of the project was to re-open the monument to the public, preserve the structure, and prevent future deterioration. The plan included the conservation of all the original bronze.

Stantec is evaluated both the exterior and interior of the monument and identified immediate restoration needs as well as phased improvements to fully restore the landmark. The firm inspected the condition of the masonry, joints, statuary, bronze work, and the perimeter site area, as well as the interior where a spiral iron staircase to the top of the monument has fallen into disrepair.

The comprehensive master plan resulted in the phased restoration of the monument and grounds. From the complete dismantling of the park to full ADA accessibility at ground level, the restoration is complete and the monument is once again the host location for City-sponsored events.

Historic Sunnyside - Drainage Improvements & Landscape Restoration

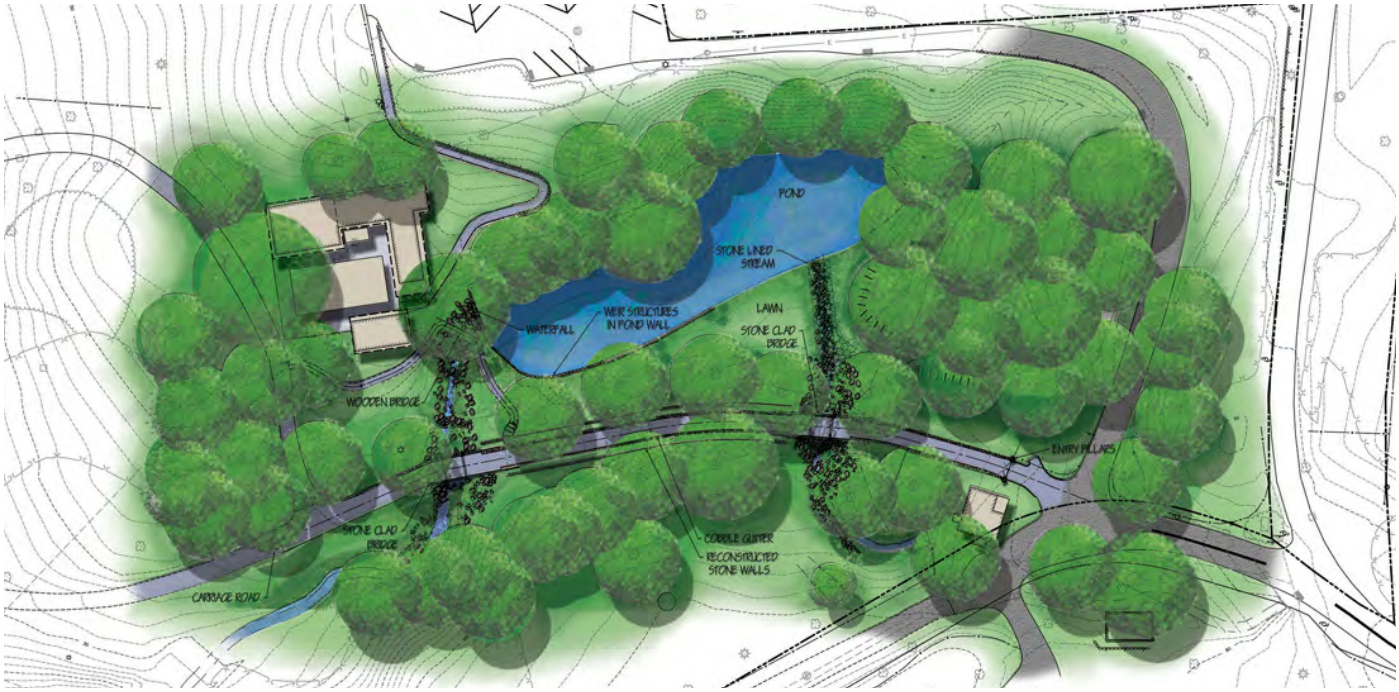
TARRYTOWN, NEW YORK

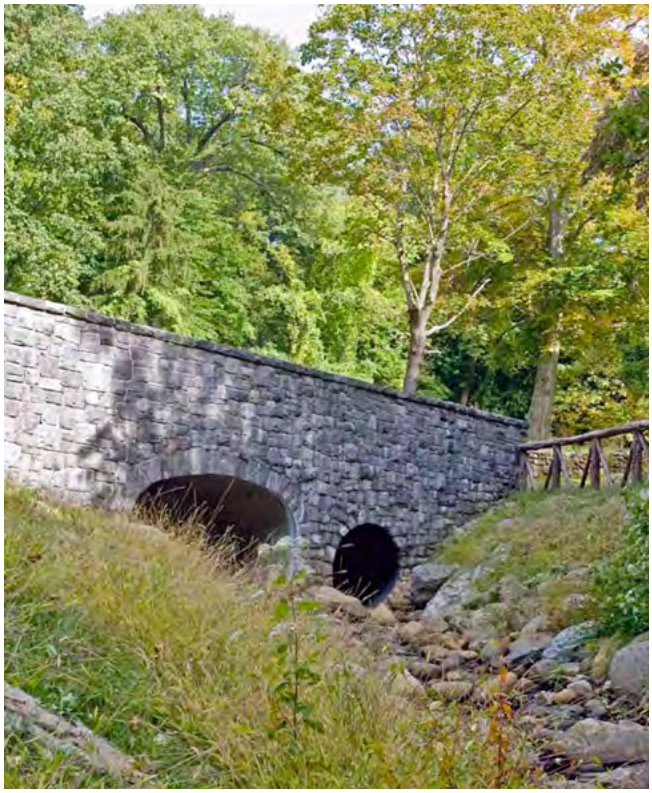
Stantec provided multidisciplinary design services to return this 19th Century riverside home of renowned American author Washington Irving to its former elegance through innovative flood mitigation and enhanced landscape design.

This award-winning project consists of large weirs and subsurface infrastructure carefully engineered and disguised within the landscape to convey severe storm water flows while maintaining water and scenic quality of the former ice pond. The pond edge was lined with stone on one side, and high capacity inlets were placed within the stone to divert the peak flows into an adequately sized and landscaped stream channel.

The carriage roads were restored with stone, improving circulation particularly for emergency vehicles, while maintaining the original 19th-Century look. Two stone-clad pre-cast culverts were installed along the carriage road, each to function as a pedestrian and vehicular bridge.

Stantec's design incorporated landscape and building materials traditionally used during Washington Irving's time at the residence. Plants were carefully selected to reflect those on site during the 1800s. The estates' pedestrian bridges use cedar posts resembling those originally on the grounds.


POND
STONE LINED STREAM
WEIR STRUCTURES IN POND WALL
WATER FALL
LAWN
STONE CLAD BRIDGE
WOODEN BRIDGE
ENTRY PILLARS
STONE CLAD BRIDGE
COBBLE GUTTER
RECONSTRUCTED STONE WALLS
CARRIAGE ROAD



Reconstruction of Scalzi Park

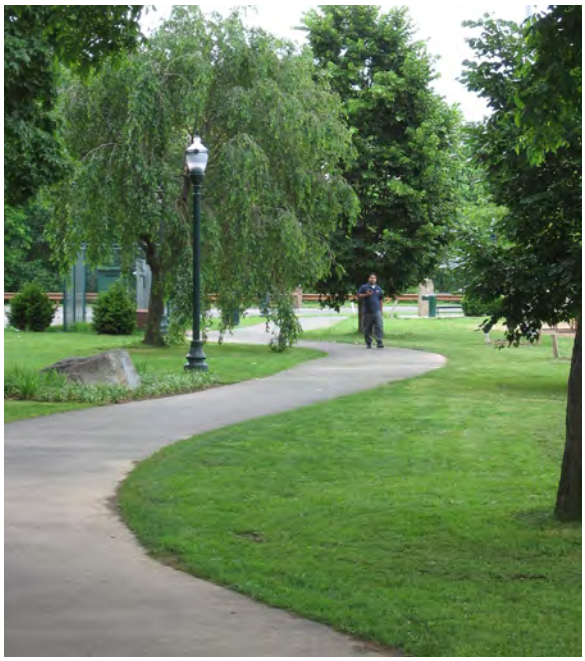
STAMFORD, CONNECTICUT

A number of renovations to the various playing fields, playgrounds, and courts were designed and presented for approval in this heavily-used park that provides passive and active recreation areas for the community.

Stantec provided a range of services including design and construction documents for the renovation of Scalzi Park, the third largest park in Stamford, Connecticut. The 48-acre, heavily-used park adjacent to the Mill River currently provides playing fields, tennis courts, basketball courts, a playground, street hockey rink, bocce courts, handball courts, and numerous areas for passive recreation.

Working with a previously prepared master plan, Stantec developed recommendations for improvements and prepared a new schematic plan for the park. The renovations included ballfield reconfiguration; playground, trail, and hockey rink improvements; hard-court rehabilitation; the addition of a skate park; restroom upgrades (ADA compliance); parking area and roadway modifications; landscaping and irrigation; and lighting improvements. Stantec also prepared construction documents to for Phase I implementation, as well as plans for:

- Tennis courts rehabilitation (April 2006);
- electrical service improvements (April 2007);
- skate park (August 2007) and perimeter landscape; and
- oval walking path and utility improvements (Phase I).



Aerial Rendering

Master Plan for Cranbury Park

NORWALK, CONNECTICUT

Stantec provided site evaluation and schematic design for a Master Plan for the restoration of Cranbury Park in the City of Norwalk.

Services for the Puget Sound Naval Shipyard Memorial were provided by staff at Communication Arts, Inc. prior to their employment with Stantec.

Cranbury Park's historic 227-acre estate is comprised of sprawling forests and expansive fields. Recommendations for the park include a new adventure playground and improvements to the Great Lawn, Orchard and dog park as well as trail hierarchy improvements, invasive species control, and protection of sensitive ecosystems. The Master Plan encourages public education activities, restoration of the forest under-story and preservation of historic estate buildings. It achieves connectivity between major use areas within the park and with key locations in the surrounding community while emphasizing public safety.

Meeting with park users groups, public outreach programs, and a long-term capital improvement plan were essential to the development of the final Master Plan design.

Jones Beach State Park West Bathhouse

WANTAGH, NEW YORK

The New York State Department of Parks, Recreations and Historic Preservation retained Stantec to generate a Conditions Assessment and Recommendations Report for the historic West Bathhouse at Jones Beach which was followed with full construction documents for the required renovations.

The West Bathhouse consists of two separate structures located to the north and south connect by masonry enclosing walls which creates a central pool yard. The pool yard of this 164,000 sf facility houses a large swimming pool, a wading pool and pool deck lounge area. The Main structures of the facility include spaces for concessions, offices for facilities personnel, storage, mechanical space, pool filtration, life guard, restrooms, retail, ticket booths and shower and changing areas.

Stantec's design team performed a thorough review of the condition of the facilities building envelope documenting failure patterns and determining deterioration mechanisms behind the issues that the building is experiencing. The findings were developed into a report that documented the visual observations, probes and materials testing that were performed. Recommendations were provided for necessary remedial work along budgetary cost estimates.

Stantec recommendations were then transformed into full construction documents for the repair and renovation work that was required. The work scope included a complete roof replacement, masonry façade restoration, cast stone repairs and replications, window and door replacements, structural repairs and ADA compliance upgrades including ramps and elevator installation.


A MAIN BLDG SOUTH ELEVATION
B MAIN BLDG SOUTH ELEVATION
LEGEND:
KEY PLAN
Stantec
New York State Office of Parks, Recreations and Historic Preservation
Jones Beach West Bathhouse Restore Exterior of West Bathhouse
MAIN EXTERIOR BUILDING ELEVATIONS
N.T.S.
A-201
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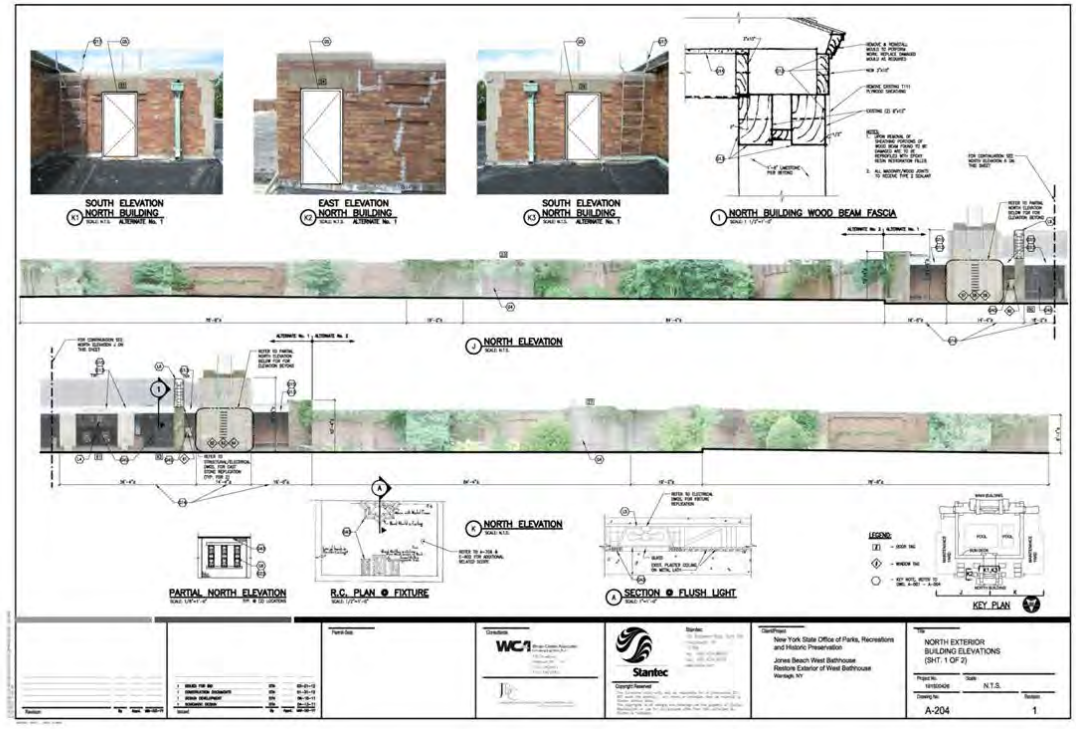

K1 SOUTH ELEVATION NORTH BUILDING
K2 EAST ELEVATION NORTH BUILDING
K3 SOUTH ELEVATION NORTH BUILDING
1 NORTH BUILDING WOOD BEAM FASCIA
J NORTH ELEVATION
K NORTH ELEVATION
PARTIAL NORTH ELEVATION
B.C. PLAN @ FIXTURE
A SECTION @ FLUSH LIGHT
LEGEND:
KEY PLAN
Stantec
New York State Office of Parks, Recreations and Historic Preservation
Jones Beach West Bathhouse Restore Exterior of West Bathhouse
NORTH EXTERIOR BUILDING ELEVATIONS (SHT. 1 OF 2)
N.T.S.
A-204
1

Hither Hills State Park Bathhouse & Visitors Center

MONTAUK, NEW YORK

Hither Hills State Park offers visitors scenic picnic areas and fireplaces, sport fishing, a sandy ocean beach, playing fields, a playground and a 168-site campground on the ocean.

The scope of work included historic restoration, as well as the design and construction of 26,000 square foot of new buildings. Stantec was responsible for designing a new bathhouse and visitors' center, including fully accessible men's and women's toilet and shower rooms. All new work was constructed using materials and an aesthetic consistent with the pale colors of the surrounding landscape and the historic style of the existing structures. In addition to the bathhouse and visitors center, Stantec restored an historic structure for use as a concession stand, and replaced a damaged and decaying wood deck and piles.

Silver Sands State Park

MILFORD, CONNECTICUT

For the State of Connecticut Department of Construction Services and the Department of Energy and Environmental Protection, Stantec will lead the $4.2m renovation of circulation and parking facilities, landscape, utility upgrades and the design of a new bathhouse and maintenance facilities.

The design must factor storm resiliency and flood impacts. Located on Long Island Sound, Silver Sands State Park is constructed on fill and nestled among vast areas of upland and tidal wetlands. Visitation to the State park has increased in recent years and renovations are needed to accommodate demand, enhance the visitor's experience and provide the requisite staff and emergency response facilities much needed at the popular waterfront destination.

Mount Greylock Historic Parkway Rehabilitation

NORTH ADAMS, MASSACHUSETTS

Stantec provided planning, design, and construction phase services for the 13-mile Mount Greylock Historic Parkway Rehabilitation project.

The Stantec team, including landscape architects, botanists, preservation planners, engineers and environmental specialists, addressed issues ranging from improvements to safety and drainage, enhancement of the scenic vistas, and stabilization of slopes and walls to natural resource protection and preservation of existing parkway character for the rehabilitation of this historic roadway.

Key responsibilities included overall project aesthetics and the rehabilitation of historic design features as well as creative solutions to improve drainage while maintaining the natural look of the 13-mile mountain road. The team developed presentations for public workshops and an operations and maintenance manual.

Creative design solutions allowed the stone box culverts to be preserved and the timber guardrails to be restored. Scenic vistas and trail crossings were restored and enhanced. Critical to the success of this project was Stantec's ability to complete the preliminary and final designs, environmental permits, and construction documents within an extremely aggressive schedule.

ROBERGE ASSOCIATES
Coastal Engineers, LLC
611 Access Road
Stratford, CT 06615

Cummings Park Pier Replacement Project

STAMFORD, CONNECTICUT

The City of Stamford contracted with RACE to provide professional engineering services related to the replacement of the 430' long fishing and public access pier located at Cummings Park.

The original pier was destroyed in the 2006 tropical storm Ernesto. The replacement pier was designed to withstand the hydrodynamic forces associated with a 1% annual (100-yr recurrence) storm event. This required particular attention to be paid to the lateral design of the pile foundation and associated structural connections. The replacement pier is founded on 76 timber foundation piles and includes specially designed guardrails to allow for fishing access per the American's with Disabilities Act guidelines. Professional services include:

- Development of wave force impacts on pier structure for 100-yr recurrence interval event
- Engineered design of public access fishing pier structure and ancillary components, including pier guardrails and handicap fishing access, benches, and lighting attachments
- Preparation of detailed engineering specifications for all elements of pier replacement
- Engineering oversight of pile driving operations to verify compliance with design capacity
- Shop drawing submittal, change order, and invoice review
- Engineering services during construction to assess compliance with Contract Documents

Sunrise at the Cummings Park Pier

ROBERGE ASSOCIATES
Coastal Engineers, LLC
611 Access Road
Stratford, CT 06615

Southport Harbor Channel Shoaling Study

FAIRFIELD, CONNECTICUT

RACE is working with the Town of Fairfield Harbor Management Commission to resolve an issue of continual shoaling at the mouth of Southport Harbor.

RACE has performed three annual hydrographic surveys and reviewed two surveys performed by the Army Corps of Engineers, to determine annual accretion rates and overall accretion and impact to navigation since the last dredging project. RACE is working closely with the Town, DEEP, and Army Corps of Engineers to develop a solution to this historic issue that has now become a threat to safe navigation. RACE performed hydrographic and topographic surveys of the adjacent beach system to determine potential sand relocation sites.Professional services include:

- Annual hydrographic surveys of Federal Navigation Channel
- Topographic and hydrographic surveys of adjacent beach system to determine sedimentation sources and potential sediment relocation areas
- Review of historic permits and pre-application coordination with State and Federal Regulatory Agencies
- Review of alternative dredging methodologies for sediment relocation

Aerial Photograph of Shoal Area

ROBERGE ASSOCIATES
Coastal Engineers, LLC
611 Access Road
Stratford, CT 06615

Black Rock Yacht Club: Pier Replacement Project

BRIDGEPORT, CONNECTICUT

The Black Rock Yacht Club (BRYC) Pier in Bridgeport, CT was destroyed during Hurricane Irene in August of 2011.

RACE was contracted by BRYC to design, solicit bids, and perform construction inspections to ensure the completion of this project prior to the following season. Due to the rapid project timeline, RACE coordinated several pre-application meetings with regulatory agencies to reduce permit review periods. In addition, RACE developed design drawings and bid documents during the permit review time. During construction RACE performed detailed construction inspections required by the City of Bridgeport Building Department. RACE filed a Statement of Special Inspections detailing compliance of the constructed pier to the construction documents. Professional services include:

- Development of wave force impacts on pier structure for 100-yr recurrence interval event
- Performance of hydrographic survey in vicinity of pier
- Preparation of City, DEEP and U.S. Army Corps of Engineers regulatory permit applications
- Engineered design of pier replacement structure; including access gangway, floating dock layout, and jib cranes for vessel launching
- Shop drawing submittal, change order, and invoice review
- Engineering services during construction including witnessing of pile driving, review of concrete placement, verification of timber construction, and preparation of Statement of Special Inspections

Black Rock Yacht Club Pier

ROBERGE ASSOCIATES
Coastal Engineers, LLC
611 Access Road
Stratford, CT 06615

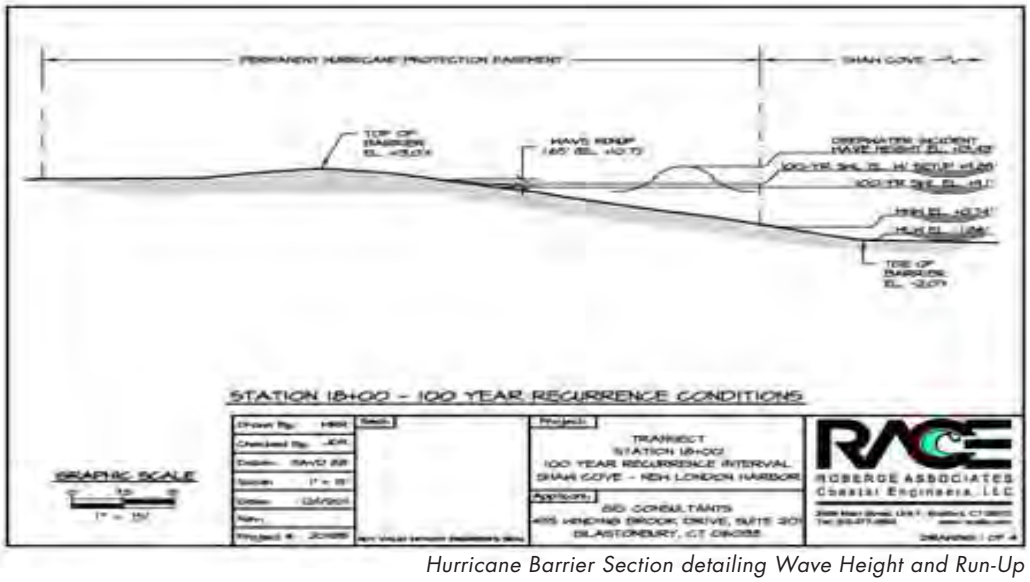
New London Hurrican Barrier: Coastal Engineering Analysis

NEW LONDON, CONNECTICUT

RACE performed a detailed coastal engineering analysis of the Hurricane Barrier in New London, CT for the purpose of recertification of the structure by the Federal Emergency Management Association (FEMA).

RACE worked as a subconsultant to GEI Consultants, Inc. in the preparation of the FEMA submittal. RACE was responsible for the determination of loading and wave overtopping at the subject structure associated with the wind speeds and water surface elevations of the 100-year recurrence storm. Wave run-up & overtopping rates were calculated at each transect analyzed. Additionally, RACE calculated hydrostatic and hydrodynamic pressures on the structure due to the 100-year recurrence storm. RACE utilized specialized computer applications developed by the U.S. Army Corps of Engineers in the preparation of this analysis.Professional services include:

- Determination of incident wave height and period at the Hurricane Barrier associated with the 100-year recurrence storm event
- Calculation of wave run-up and overtopping rates at critical locations on the Barrier structure
- Calculation of hydrostatic and hydrodynamic loads on Barrier structure
- Preparation of detailed Report of Findings with summary tables/preadsheets and graphics



Hurricane Barrier Section detailing Wave Height and Run-Up

HUESTIS TUCKER
ARCHITECTS, LLC

Deer Lake:
Scout Reservation

KILLINGWORTH, CONNECTICUT

Huestis Tucker Architects (HTA) were asked to create a master plan for this 253-acre camp to make it usable for a Cub Scout summer resident camp.

The camp had to continue to serve its other uses as a summer day camp, scout camping on weekends year round, and use by community groups. New buildings in the master plan include a 300 seat Dining Hall, Administration building with offices and camp store, a Health Lodge, and several shower/toilet buildings spread around the camp. HTA were also asked to help locate new campsites, staff cabins and program structures. As of 2012, the Dining Hall, Campsites, and shower/toilet buildings have been built.

Deer Lake - Aerial View Rendering

Deer Lake - Entrance View Rendering

HUESTIS TUCKER
ARCHITECTS, LLC

Deer Lake:
Scout Reservation

KILLINGWORTH, CONNECTICUT

The Good Turn Dining Hall consists of a 4400 s.f. Dining Room and 1700 s.f. Kitchen which is designed to serve 300 scouts.

The building is heated by a radiant slab and incorporates a natural ventilation system through operable windows and barn- style rooftop ventilators. The structure is a true timber frame with exterior insulation over tongue and groove sheathing, set on a concrete slab, with prefinished cement board siding which matches the barns that were already existing on the site. The kitchen and restroom portion is a standard wood frame structure with wood trusses for the roof.

Deer Lake Dining Hall: Exterior (Left) & Interior (Right)

Deer Lake Dining Hall Rendering

HUESTIS TUCKER
ARCHITECTS, LLC

Connecticut Countertops Showroom and Offices
NEWTOWN, CONNECTICUT

Huestis Tucker Architects (HTA) were asked to design an addition to the existing manufacturing facility for this custom cabinet shop.

HTA added the front section of the building, which contains the showroom on the first floor and offices on the second floor. The owner asked for a highly visible building that customers would remember, and that would also showcase his abilities as a builder and craftsman. The building is detailed with pilasters and moldings and copper flashing to give it an air of elegance and timelessness.

HUESTIS TUCKER
ARCHITECTS, LLC

Camp Sequassen Waterfront

NEW HARTFORD, CONNECTICUT

We were asked by the CT Yankee Council of the Boy Scouts of America to design accessibility improvements to the waterfront where the scouts swim and take swimming and boating lessons during summer camp sessions. The area is now easier for all scouts to navigate and makes the experience of being at camp much more enjoyable, as they now have a clean area to change their shoes and store their things. We also designed the Lifeguard tower, which allows the lifeguards to see the entire waterfront area and to be heard when giving instructions.

Before

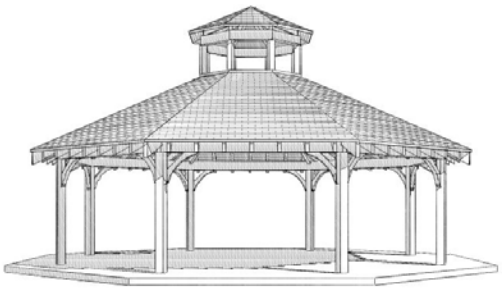
After

HUESTIS TUCKER
ARCHITECTS, LLC

Pisani Pavilion at Camp Sequassen

NEW HARTFORD, CONNECTICUT

The Pisani Pavilion was designed to provide shelter to scouts for merit badge instruction during all types of weather so that other buildings would not be overcrowded. It is a post and beam structure with a steel tension ring and steel posts and connections.



HUESTIS TUCKER
ARCHITECTS, LLC

Top Dog Diner

COS COB, CONNECTICUT

This project started as a renovation of an old diner that turned out to be too decrepit to save, so HTA designed a faithful reproduction of the original. The modern kitchen and restrooms are housed in an addition that evokes the same period through its barrel shaped metal roof. The building is also fully accessible. HTA designed the shell, interior, sign and color scheme, and worked with a consultant on the kitchen layout.

HUESTIS TUCKER
ARCHITECTS, LLC

Schoolhouse Restaurant
WILTON, CONNECTICUT

For the renovation of an old one room schoolhouse from a lunch café into a fine dining restaurant, HTA redesigned the interiors, including the bar, to create a contemporary atmosphere which reflects the quality of the cuisine, also complements the historic exterior. HTA worked with a commercial kitchen consultant to upgrade the cooking facilities, and integrated modern ventilation requirements into the historic fabric. It opened in 2007 and has drawn excellent reviews for both the food and the atmosphere.

MARTINEZ COUCH & ASSOCIATES, LLC
ENGINEERING - ENVIRONMENTAL - SURVEYING
PROJECT MANAGEMENT

Sewer Separation Design Project: Park River Contract 3

HARTFORD, CONNECTICUT

MCA was contracted by GHD to complete an Environmental Evaluation on behalf of the MDC for a Section of the Clean Water Project (CWP) - Sewer Separation Design - in the City of Hartford, CT.

Description of Environmental Work Completed by MCA: The project included the performance of a Phase I Environmental Site Assessment of properties in the vicinity of the site to assess the potential for soil and groundwater contamination associated with current and former land uses and subsurface soils and groundwater testing. The primary purpose of the evaluation was to identify options for managing soil and groundwater that may be encountered during planned sewer separation construction activities. The environmental evaluation was performed simultaneously with the geotechnical testing program and other project design related work.

- 26 borings were completed of which 12 were utilized as groundwater monitoring wells.
- MCA managed the collection and disposal of soil boring tailings.
- The information collected was evaluated and a contaminated soil map was prepared to show the areas where contaminated, hazardous, and clean or native soil would be expected to be encountered.
- MCA prepared the report for inclusion in the Final Design documents.

Description of Surveying Work Completed by MCA:

MCA completed a survey of 3,500 LF of roadway, locating all topographic features from building face to building face with full utility details, and the stake out of the soil borings and as built locations with groundwater monitoring well elevations. In addition, MCA prepared mapping for the purpose of obtaining an easement to design a discharge a storm drain pipe to the Park River Conduit through property belonging to the State of Connecticut Armory.

REFERENCES

1. LIGHTHOUSE POINT MASTER PLAN, NEW HAVEN, CT

The master plan includes access, circulation and parking enhancements to restore the landscape and the recreational attributes of the 70+ acre harbor-front park. Rampant vehicle use has compromised the look and function of Lighthouse Point, New Haven's most popular summer retreats. The plan better organizes permanent and seasonal parking and establishing large and interrupted spaces for passive recreation. An assortment of new and enhanced uses are also proposed for the beach promenade and expected to increase vibrancy, revenue and public enjoyment. Stantec was prime consultant and provided landscape architecture, engineering and public outreach services.

Fee: $45,000
Client: City of New Haven Department of Parks Recreation and Trees
Contact: Robert Levine – Director
Tel: (203) 946-6027

2. THE MASTER PLAN FOR AND PHASED IMPLEMENTATION OF IMPROVEMENTS TO FLOWERS (CITY) PARK, NEW ROCHELLE, NY

Work entailed the renovation of over 25-acres of parkland in the City's premiere athletic field complex. Five new ballfields, a multi-use field, a playground, restrooms, new parking areas, athletic and pedestrian lighting were provided as well as landscaped berms, walking paths and renovations to existing buildings in the four-phase implementation strategy. The project was initiated in 2008 with the master plan and replacement of an existing soccer field. The first and subsequent phases of design and construction addressed significant flooding conditions. Construction of all master plan elements was substantially complete in 2012 to the raves of multiple sports organizations, local colleges and neighbors who use and frequent the park. Stantec was prime consultant and provided landscape architecture, engineering, survey, architectural, construction administration and public outreach services.

Fee: $850,000 (all phases)
Construction Cost: $12,600,000
Client: The City of New Rochelle Department of Parks and Recreation
Contact: William Zimmermann – Director of Parks and Recreation
Tel: (914) 654-2092

3. THE MASTER PLAN FOR PLEASURE BEACH PARK, BRIDGEPORT, CT

The master plan for the 70+ acre peninsula park located off the mainland in Bridgeport has made possible the opportunity for residents to visit once again the cherished waterfront park after nearly 17 years of lost use. The master plan includes passive recreation amenities and focus on protection and enhancement of sensitive wildlife and plant species habitat. The plan includes a management plan for the site that will allow the public and endangered and threatened species to co-exist. Stantec led the master plan effort and developed a program of improvements, plan alternatives and a final preferred plan accompanied by cost and phasing schedules, a permitting framework and regulatory concurrence. Our work was also site intensive requiring very detailed survey of sensitive plant species and monitoring of federally protected bird species (piping plover). Phase I construction is underway and new water taxis are scheduled for delivery later this year. Upon completion and commissioning of the taxis, limited public access should be restored by the Fall of 2013.

Fee: $190,000
Construction Cost: Construction of Phase 1 (underway)
Client: City of Bridgeport
Contact: Ted Grabarz, AIA, ASLA – Sustainability Director, Deputy Director of Public Facilities
Tel: (203) 576-3950

Price Proposal & Required Forms

Included in the following pages are:

- Appendix: Fee Proposal Form
- Hourly Rates
- Non-Collusion Affidavit
- Sample Insurance Certificates
- Statement of Acknowledgement of Addenda

APPENDIX – REVISED FEE PROPOSAL FORM RFP #609

For the services described in the preceding sections of this Request for Proposal pertaining to the Cummings Park and West Beach Master Plan:

TASK / DESCRIPTION	FEE
Task 1: Conceptual Master Plan Design for Cummings Park and West Beach, Phasing, and Cost Estimates for Each Phase	$87,500
Task 2: A-2 Survey of the Phase I area & Cummings Park softball fields 4 & 5 – "Phase IA" – as depicted on amended context map	$13,880
Task 3: A-2 Survey of Cummings Park & West Beach (including Phase I & Phase IA)	$72,280
Task 4: Planning Study of Drainage for Both Parks	$5,600
Task 5: Construction Documents for Pavilion, Concession Building, and all Phase I Renovations	$150,500
Task 6: Construction Documents for Restroom Building	$14,000
Task 7: Construction Documents for Realignment of Softball Fields & Lighting	$17,800
Task 8: Planning Study of Beach Reinforcement and Resiliency	$31,270
Task 9: Cummings Marina Concept Plan	$24,280
Task 10: Cummings Marina Evaluation	$24,740
Task 11: Cummings Marina Cost Estimate	$4,270
Task 10: Evaluation of Maintenance and Staffing Needs for Each Completed Phase	$5,000
Task 11: Bid Services and Construction Administration for Phase I Renovations	$36,000
TOTAL PROPOSAL COST MINUS TASK 2	$473,240
TOTAL PROPOSAL COST MINUS TASK 3	$414,840

Note: Depending on available funding and City priorities, the City at its sole discretion may award any combination of the above listed tasks. The tasks are not listed in any particular order of priority. Proposers are advised to submit fees for each task

Price Proposal: Hourly Rates

STAFF	HOURLY RATE
STANTEC	
Principal	$220
Project Manager	$125
Senior Professional	$160
Professional III	$135
Professional II	$120
Professional I	$110
Junior Professional	$95
Technician	$85
HUESTIS TUCKER ARCHITECTS, LLC	
Principal	$150
Project Manager	$100
Senior Professional	$85
MARTINEZ COUCH & ASSOCIATES, LLC *(MBE)*	
Principal	$200
Survey Crew	$145
Licensed Land Surveyor	$120
Licensed Environmental Professional	$160
Technician	$80
ROBERGE ASSOCIATES COASTAL ENGINEERS, LLC	
Principal	$205
Project Manager	$165
Project Engineer	$130
Engineer	$115
Engineering Associate	$90
Technician	$80

Non-Collusion Certification – RFP/RFQ

By submission of this Proposal, each Proposer or person signing on behalf of the Proposer, certifies 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 a 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.

EFFECTIVE: 12/8/05

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: Stantec Consulting Services Inc.

By: 

Print Name: Gary Sorge

Title: Senior Principal

ACKNOWLEDGMENT

STATE OF Connecticut :

S.S.: Date: March 26, 2013

COUNTY OF Hamden :

Personally appeared Gary Sorge, as Senior Prinicpal of the above named firm, and attested that the foregoing statements are true and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires: 08/31/2017

EFFECTIVE: 12/8/05

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 11/01/2012

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER

AON REED STENHOUSE INC.
AON RISK SERVICES CENTRAL, INC.
900 - 10025 - 102A AVENUE
EDMONTON, AB T5J 0Y2

CONTACT NAME: ANDREA OTTO
PHONE (A/C, No, Ext): 1-800-444-3017 FAX (A/C, No): 952-656-8834
E-MAIL ADDRESS: ANDREA.OTTO@AON.COM

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A: ZURICH AMERICAN INSURANCE COMPANY	16535
INSURER B: ZURICH AMERICAN INSURANCE COMPANY	16535
INSURER C: ZURICH INSURANCE COMPANY	
INSURER D: ZURICH AMERICAN INSURANCE COMPANY	16535
INSURER E:	
INSURER F:	

INSURED

STANTEC CONSULTING SERVICES INC
2321 WHITNEY AVENUE
HAMDEN, CT 06518

COVERAGES **CERTIFICATE NUMBER:** 053 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS		
A	**GENERAL LIABILITY** X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR X CONTRACTUAL/CROSS LIABILITY X OWNERS & CONTRACTORS PROTECTIVE GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT X LOC			GLO6556026 XCU COVER INCLUDED	05/01/12	05/01/13	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ $ $ $ $ $	2,000,000 300,000 10,000 2,000,000 4,000,000 2,000,000
B	**AUTOMOBILE LIABILITY** X ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS			BAP5940882	11/01/12	11/01/13	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ $ $ $	1,000,000
C	X **UMBRELLA LIAB** X OCCUR X **EXCESS LIAB** CLAIMS-MADE DED X RETENTION $10,000			8831307 EXCESS GENERAL, AUTO AND EMPLOYERS LIABILITY (FOLLOW FORM)	05/01/12	05/01/13	EACH OCCURRENCE AGGREGATE	$ $	5,000,000 5,000,000
D	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** Y/N ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? N **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		WC5940881	11/01/12	11/01/13	X WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ $ $	1,000,000 1,000,000 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

HAMDEN, CT

CERTIFICATE HOLDER

TO WHOM IT MAY CONCERN

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Andrea R. Otto

Policy Number: **Specimen Certificate** Date Entered: **2/19/2013**

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) **2/19/2013**

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

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PRODUCER Maloney & Company, LLC 1110 Boston Post Road Guilford, CT 06437	**CONTACT NAME:** **PHONE (A/C, No, Ext):** (203)458-4000 **FAX (A/C, No):** (203)458-4001 **E-MAIL ADDRESS:** mail.maloneyllc.com
INSURED Huestis Tucker Architects, LLC 15 Research Drive Woodbridge, CT 06525	**INSURER(S) AFFORDING COVERAGE** — **NAIC #** **INSURER A :** Zurich/Assurance Co. of America **INSURER B :** Travelers/The Standard Fire Insurance Co **INSURER C :** Navigators Insurance Company **INSURER D :** **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	**GENERAL LIABILITY** [X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [X] POLICY [ ] PRO-JECT [ ] LOC			PAS 050 567 36	1/6/2013	1/6/2014	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$1,000,000 $1,000,000 $10,000 $2,000,000 $2,000,000 $2,000,000
	AUTOMOBILE LIABILITY [ ] ANY AUTO [ ] ALL OWNED AUTOS [ ] SCHEDULED AUTOS [ ] HIRED AUTOS [ ] NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ $ $ $
A	[X] **UMBRELLA LIAB** [X] OCCUR **EXCESS LIAB** [ ] CLAIMS-MADE [ ] DED [X] RETENTION $ N/A			PAS 050 567 36	1/6/2013	1/6/2014	EACH OCCURRENCE AGGREGATE	$ $1,000,000 $1,000,000
B	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** Y / N ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [ ] **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		XCUB-3233 T84-6-12	7/16/2012	7/16/2013	[X] WC STATU-TORY LIMITS [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $1,000,000 $1,000,000 $1,000,000
C	**PROFESSIONAL LIABILITY**			CM12DPL017917IV	7/25/2012	7/25/2013	**LIMIT:**	$500,000/ $1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

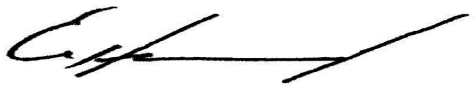
CERTIFICATE HOLDER

SPECIMEN COPY

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



Policy Number: **Specimen Certificate** Date Entered: **7/30/2012**

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) **7/30/2012**

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PRODUCER Maloney & Company, LLC 1110 Boston Post Road Guilford, CT 06437	**CONTACT NAME:** **PHONE (A/C, No, Ext):** (203)458-4000 **FAX (A/C, No):** (203)458-4001 **E-MAIL ADDRESS:** mail.maloneyllc.com
INSURED Martinez-Couch & Associates, LLC 1084 Cromwell Avenue Rocky Hill, CT 06067	**INSURER(S) AFFORDING COVERAGE** — **NAIC #** **INSURER A :** Travelers Indemnity Co. **INSURER B :** Hartford/Sentinel Insurance Company Ltd. **INSURER C :** Zurich/Northern Ins. Co. of NY **INSURER D :** CNA/Continental Casualty Co. **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	**GENERAL LIABILITY** [X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [X] PRO-JECT [ ] LOC			680-5337 M581 -IND-12	8/1/2012	8/1/2013	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG $	$2,000,000 $1,000,000 $10,000 $2,000,000 $4,000,000 $4,000,000 $
B	**AUTOMOBILE LIABILITY** [X] ANY AUTO [ ] ALL OWNED AUTOS [ ] SCHEDULED AUTOS [ ] HIRED AUTOS [ ] NON-OWNED AUTOS			31 UEC HE 4175	8/1/2012	8/1/2013	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) $	$1,000,000 $ $ $ $
A	[X] **UMBRELLA LIAB** [X] OCCUR **EXCESS LIAB** [ ] CLAIMS-MADE [ ] DED [X] RETENTION $ 10,000.			CUP-0564 T931-12-47	8/1/2012	8/1/2013	EACH OCCURRENCE AGGREGATE $	$1,000,000 $1,000,000 $
C	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** Y/N ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [ ] **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		WC 421 75 779 09	5/1/2012	5/1/2013	[X] WC STATU-TORY LIMITS [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $1,000,000 $1,000,000 $1,000,000
D	**PROFESSIONAL LIABILITY**			AEH 288 348 736	4/10/2012	4/10/2013	**LIMIT:**	$2,000,000/ $2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER

SPECIMEN COPY

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

ROBEASS-01 FLEWIS

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 3/6/2013

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Fayne Ann Lewis	
Camilleri & Clarke Associates an Affliliate of Smith Brothers 68 National Drive, Suite 2 Glastonbury, CT 06033	PHONE (A/C, No, Ext): (860) 652-3235	FAX (A/C, No): (860) 652-3236
	E-MAIL ADDRESS: flewis@camillericlarke.com	

INSURED	INSURER(S) AFFORDING COVERAGE	NAIC #
Roberge Associates Coastal Eng 611 Access Road First Floor Stratford, CT 06615	INSURER A : Travelers Property Casualty	25674
	INSURER B : Travelers Indemnity Company	25658
	INSURER C : Travelers Indemnity Co of CT	25682
	INSURER D : XL Specialty Insurance Co	37885
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY PRO-JECT LOC			6802274L054	6/1/2012	6/1/2013	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 300,000 $ 5,000 $ 1,000,000 $ 2,000,000 $ 2,000,000
B	AUTOMOBILE LIABILITY X ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS			BA1045N957	6/1/2012	6/1/2013	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (PER ACCIDENT)	$ 1,000,000 $ $ $
B	X UMBRELLA LIAB OCCUR EXCESS LIAB CLAIMS-MADE DED X RETENTION $ 10,000			CUP2150T293	6/1/2012	6/1/2013	EACH OCCURRENCE AGGREGATE	$ 5,000,000 $ 5,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y / N: Y If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		UB7611Y312	9/4/2012	9/4/2013	X WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 500,000 $ 500,000 $ 500,000
D	Professional Liab			DPS97016118	1/12/2013	1/12/2014	Annual Aggregate	2,000,000
D	RetroDate9/22/1999			DPS97016118	1/12/2013	1/12/2014	AnnualAggregate	2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

FOR PROFESSIONAL LIABILITY COVERAGE, AGGREGATE LIMIT IS THE TOTAL INSURANCE AVAILABLE FOR CLAIMS PRESENTED WITHIN THE POLICY PERIOD FOR ALL OPERATIONS OF THE INSURED. THIS LIMIT WILL BE REDUCED BY PAYMENTS OF CLAIMS AND EXPENSES. THIS INSURANCE IS NOT FOR A SPECIFIC PROJECT. Excluded: John Roberge and Devin Santa.

CERTIFICATE HOLDER

For Proposal Only

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Kimberly S. Connolly

Acknowledgment of Addenda

Stantec acknowledges the receipt of the following Addenda in connection with RFP No. 609:

- Addendum No. 1 – Dated February 20, 2013
- Addendum No. 2 – Dated March 8, 2013

Appendix

Additional Subconsultant Team Information:

- Roberge Associates Coastal Engineers
- Martinez Couch & Associates, LLC *(M/B/SBE)*

COASTAL ENGINEERING SERVICES

Services

Building upon our more than 35 years of coastal engineering experience, we provide site evaluation, design services, regulatory assistance, and construction oversight for coastal engineering projects throughout the United States, with particular expertise throughout the Long Island Sound region.

We design major port and terminal facilities, residential and commercial bulkheads, revetments and erosion control structures, as well as provide coastal engineering expertise to engineers, architects, planners, municipalities and economic development agencies.

We design and coordinate permitting for dredging and dredged material disposal and provide our unique expertise in the design and operations for navigation improvements.

SHORELINE STABILIZATION STRUCTURE

We specialize in:

- **Bulkheads, seawalls, revetment structures**
- **Shoreline stabilization**
- **Breakwater & jetty design**
- **Beach nourishment**
- **Wave transformation studies**
- **Sand bypassing at tidal inlets**
- **Tidal flushing analyses**
- **Wind and wave loading studies**
- **Littoral drift and sediment transport studies**
- **Regulatory permit assistance**
- **Coastal flooding & FEMA flood map revision studies**
- **Dredging & dredged material management**

ROBERGE ASSOCIATES
Coastal Engineers, LLC
611 Access Road
Stratford, CT 06615
Tel: 203.377.0663
Fax: 203.375.6561

STRUCTURAL ENGINEERING

Services

RACE's current professional staff of six Structural, Civil, and Geotechnical Engineers provides resources to perform services such as the design of port facilities, bulk unloading terminals, and offshore structures. This expertise extends to the design of mooring and fender systems.

Our services include the design of buildings, foundations, and earth retaining structures located the in coastal area. Because of the vast and various uses along the waterfront, our design experience includes timber, steel, and concrete structures. Specialized foundation systems are often employed when dealing with in-water structures. These include: piles, caissons, drilled shafts, soil and rock anchor systems.

Other complementary industry design professionals rely on RACE to provide expertise when developing load criteria for structures such as wind, flood, snow, and seismic forces. Design for additional loading conditions such as vehicular and crane loading are part of RACE's unique capabilities.

National Insurance companies and waterfront Facilities owners both commercial and private contract with RACE to perform forensic investigations of structural failures.

Offshore Unloading Platform

We specialize in:

- **Design of Port Facilities, Bulk Unloading Terminals, and Offshore Structures**
- **Design of Vessel Mooring Systems**
- **Design of Fendering Systems for Docks and Bridge Piers**
- **Structural Design of Buildings in the Coastal Area**
- **Building Foundation Design**
- **Design of Earth Retaining Structures**
- **Evaluation of Timber, Steel, and Concrete Structures**
- **Design of Piles, Caissons, Drilled Shafts, Soil and Rock Anchor Systems**
- **Development of Load Criteria for Coastal Structures Wind, Flood, Snow, and Seismic**
- **Design of Bridges and Other Structures Subject to Vehicles**
- **Forensic Investigation of Structural Failures**

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Stratford, CT 06615
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Fax: 203.375.6561

MARINA PLANNING AND DESIGN SERVICES

Our clients include

Coastal communities, marina and yacht club owners who are faced with complex planning, engineering and regulatory challenges at their harbor and marina facilities. We have successfully met these challenges for clients throughout the region.

YACHT CLUB DRY-SAIL FACILITY BEFORE RACE IMPROVEMENTS

YACHT CLUB DRY-SAIL FACILITY AFTER RACE IMPROVEMENTS

Our services include:

- **Docks, piers and mooring facility concept & design**
- **Bulkheads, seawall and revetments improvements**
- **Marina planning and facility layout**
- **Dredging and dredged material disposal management**
- **Navigation channel design**
- **Wave attenuator design**
- **Dry sail & travel lift facilities optimization**
- **Wind and wave loading studies**
- **Hydrographic surveys**
- **Regulatory permit assistance**

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COASTAL PLANNING AND HARBOR MANAGEMENT SERVICES

Clients and Services

Coastal communities, regional planning agencies, State coastal authorities, harbor management commissions and waterfront residents who are faced with complex planning, development, and regulatory challenges at their harbor and community properties. We have successfully met the challenges our clients face in areas such as harbor management, coastal mapping, resource assessment, waterfront infrastructure assessment and evaluation, residential dock build-out analysis, and dredging and dredged material disposal.

Our services include infrastructure inventories; coastal and hydrographic mapping; inspection and condition surveys of existing timber, steel and concrete structures; planning and design of new marina facilities; development of dredging and dredged material management programs; assessment and design of public access facilities; and related engineering services for construction.

MARINA FLOAT AND ANCHOR PILE IMPROVEMENTS

We specialize in:

- **Docks, piers and moorings facilities**
- **Bulkheads, seawalls, revetments**
- **Coastal mapping**
- **Marina planning and facility layout**
- **Navigation channel design and evaluation**
- **Shoreline erosion studies**
- **Resource assessment**
- **Navigation impact studies**
- **Public access issues**
- **Regulatory assessment**
- **Dredging and dredged material disposal**

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Stratford, CT 06615
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Fax: 203.375.6561

CONSTRUCTION RELATED SERVICES

Services

Our coastal and waterfront engineering expertise is founded upon the solid experience gained in professional oversight and hands-on construction activities. This experience has included all elements of engineering services during construction on a broad range of construction types including: dredging and construction of dredged material containment structures; bulkheads, seawalls, and revetment structures; timber, steel, stone, and concrete piers and quay walls; submerged pipeline systems; pre-engineered buildings; small bridge deck, parapets, pier and abutment structures; shoreline stabilization; landfill capping and stabilization; slurry wall construction; water intake structures; industrial cooling water systems and submerged diffusers; and specialty underwater structures.

We specialize in:

- **Preparation of bid documents**
- **Preparation of opinion of probable cost**
- **Resident Engineer and owner's representative**
- **Pre-construction condition survey**
- **Review of change order requests**
- **Design revisions based upon changed conditions**
- **Post-construction surveys**
- **Preparation of as-built drawings**

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Coastal Engineers, LLC
611 Access Road
Stratford, CT 06615
Tel: 203.377.0663
Fax: 203.375.6561

MARTINEZ COUCH & ASSOCIATES, LLC

ENGINEERING - ENVIRONMENTAL - LAND SURVEYING - PROJECT MANAGEMENT

COMPANY PROFILE: LAND SURVEYING

1084 Cromwell Avenue - Rocky Hill, CT 06067
Phone: 860:436-4364 - Fax: 860-436-4626
email@martinezcouch.com - www.martinezcouch.com

COMPANY INFORMATION

Martinez Couch & Associates, LLC (MCA) is a professional services company that provides Civil Engineering, Land Surveying, Environmental Consulting, Geographic Information System (GIS) and Project Management services to public and private sector clients in Connecticut and throughout the Northeast Region. Since inception in 1999, MCA has developed a successful track record of project completion and service delivery. Our mission is to provide our clients with the proper information so that they can make educated decisions regarding the management of their projects. Our dedicated staff consists of Professional Engineers, Licensed Environmental Professionals, Licensed Land Surveyors, Construction Inspectors, CADD and field technicians.

At MCA, we believe that successful projects start with building quality into the planning and the execution process. We strive to bring efficiency, common sense, and a focus on solutions to all our clients, large and small. The commitment to meeting the needs of our clients is what has made and continues to make MCA successful.

Our Approach

Listening

Planning

Communication

Execution

Quality Control

Close Out

Completion

At MCA, we understand that many different factors go into the development of a project. That is why our first step is to listen. Listening allows us begin with sensitive, sensible and efficient planning and design. Once the client's needs are known, our next step is to gather our team of technical staff in order to analyze the project with the end result in mind. At this stage, we identify potential issues and/or obstacles and plan accordingly. We then outline a scope of services in order to meet requirements, goals and objectives in an efficient manner. As the project proceeds, our Project Managers maintain open lines of communication in order to report progress, address issues and present information in order to move a project forward.

Certifications

- **MBE**: Minority Business Enterprise with the Department of Administrative Services (DAS)
- **DBE:** Disadvantaged Business Enterprise with the Department of Transportation (DOT)
- **SBE:** Certified as a Small Business by The Small Business Administration (SBA)
- **SLBE**: Small Local Business Enterprise – Metropolitan District Commission (MDC)
- **MBE**: Minority Business Enterprise with the City of Hartford

Personnel	• Professional Engineers • Licensed Land Surveyors • Licensed Environmental Professionals • Construction Inspectors • Hydrogeologists • Designers • Project Managers • CADD/GIS Technicians • Field Technicians • OSHA Certified Technicians
Types of Projects Completed	• Educational Facilities • Telecommunication Sites • Wastewater Treatment Plants • CSO & SSO Projects • Residential Developments • Commercial Developments • Municipal & Federal Building Sites • Highways & Bridges
NAICS Codes	• 541330 – Engineering • 541340 - Drafting • 541360 – Geophysical Surveying and Mapping • 541370 – Surveying and Mapping • 541611 – Project Management • 541620 - Environmental Consulting Services • 562910 – Remediation • 562211 – Hazardous Waste Treatment and Disposal
Clients	• State, Local & Federal Government Agencies • ENR Top 100 Design & Environmental Firms • Architectural Firms • Construction Companies • Corporations, Mid-sized Companies & Small Businesses • Private Real Estate Development Companies – Commercial & Residential • Commercial & Residential Property Owners
Certifications	• Small Local Business Enterprise (SLBE) • Department Of Transportation Disadvantaged Business Enterprise *(DBE)* • Department of Administrative Services – Minority Business Enterprise*(MBE)* • Department Of Transportation Pre-Qualified Consultant • SOMWBA Certified – State of Massachusetts • City of Hartford, Connecticut Minority Business Enterprise

LAND SURVEYING SERVICES

MCA provides the Land Surveying Services that are an essential component to land development projects. Our survey teams have completed thousands of full boundary and topographic surveys using conventional techniques and Global Positioning Systems (GPS). Our crews have experience operating and using the necessary equipment to perform such surveys, including: robotic instruments, total stations and data collectors. All mapping and drawings can be provided in AutoCAD, Civil 3-D and/or Micro-Station formats, depending on delivery requirements. In addition, MCA has survey crews that are OSHA 40 Hour Hazardous Material 1910 cfr trained & certified and Amtrak Railroad Safety trained & certified.

Notable project experience of our key survey personnel include; The Amtrak Northeast Corridor Electrification Project, EPA Superfund Sites, DOT Bridge Projects, Iroquois Gas Transmission Lines, streetscapes, highways, waste water treatment and pollution control plants, sewer re-alignment projects in urban and sub-urban areas and telecommunication sites throughout New England and New York.

Full Suite of Land Surveying Services:

Conventional Surveys

- Boundary Surveys
- Topographic Surveys
- Land Title Searches
- GPS Surveys
- Utility Mapping
- Wetland Delineation
- Zone Changes

Specialty Surveys

- Hydraulic Surveys
- Bridge Scour Surveys
- River Cross Sections
- Establishing Pre & Post Dredging Conditions
- Geographic Information Systems (GIS)

Heavy Construction Surveys

- As-Built Surveys
- Construction Stakeout
- Bridge Layout
- Bridge As-Built
- Roadway & Highway Improvement Surveys
- Structural As-Built
- Volumetric Calculations

MCA has Survey Crews that are...

- OSHA 40 Hour Hazardous Material 1910 cfr Trained and Certified
- Amtrak Railroad Safety Trained & Certified

1084 Cromwell Avenue, Suite A-2 – Rocky Hill, CT 06067 - Phone: (860) 436-4364 Fax: (860) 436-4626
email@martinezcouch.com – www.martinezcouch.com

Land Surveying Projects

PROJECT	PROJECT OWNER	SERVICES
Tang & Grayling Intersection Design	NAVFAC MID - Atlantic	▪ Topographic Survey for Intersection Improvement
Main Street Streetscape Improvement	City of New Brittan, CT	▪ Topographic Survey for Streetscape Improvement
Rehabilitation of Sunnyside Street Bridge	City of Norwich, CT	▪ Topographic Survey for Bridge Rehab Design
Water Street Steetscape Improvement	City of Bridgeport, CT	▪ Topographic Survey for Streetscape Improvement
Rehabilitation of East Rock Bridge	City of New Haven, CT	▪ Topographic Survey for Bridge Rehab Design
North/South Pond Survey	LaRosa Construction	▪ Topographic Survey ▪ Volume Calculations
Upper Albany Avenue Contract #1 And Contract #2 & #5	Metropolitan District Commission	▪ Topographic Survey for Sewer Separation Design
Park River Area At Hungerford Street	Metropolitan District Commission	▪ Boundary Survey ▪ GPS Survey ▪ Property Inspections
Franklin Avenue Area Sewer Package D	Metropolitan District Commission	▪ Topographic Survey for Sewer Separation Design ▪ Property Inspections
Franklin Street Sewer Separation	Metropolitan District Commission	▪ Topographic Survey for Sewer Separation Design
Granby Street Sewer Separation	Metropolitan District Commission	▪ Topographic Survey for Sewer Separation Design
Ridgebrook Drive & Four Mile Road Replacement Sewer (West Hartford)	Metropolitan District Commission	▪ Topographic Survey for Sewer Separation Design

PROJECT	PROJECT OWNER	SERVICES
The Hartford Water Pollution Control Facility	Metropolitan District Commission	▪ Boundary Survey ▪ Topographic Survey for Plant Improvement Design
Norwalk First Taxing Water District	First Taxing Water District of Norwalk, CT	▪ Topographic Survey ▪ GPS Survey ▪ As Built Conditions Survey
Norwalk Waste Water Treatment Facility	City of Norwalk, CT Public Works	▪ Boundary Survey ▪ Topographic Survey ▪ GPS Survey
Olin Corporation Newhall Neighborhood- Hamden, CT	Sevenson Environmental – Hamden, CT	▪ As-Built Survey ▪ Boundary Survey ▪ Topographic Survey ▪ GPS Survey ▪ Land Survey Plats ▪ Location Staking ▪ Volume Computation
State Street	Town of Ludlow, MA	▪ Topographic Survey ▪ As Built Conditions Survey
Tweed Airport	City of New Haven, CT	▪ Boundary Survey ▪ Topographic Survey
City Barn	City of Torrington, CT	▪ Boundary Survey ▪ Topographic Survey
Hill Central and Mauro Sheridan Schools	City of New Haven, CT	▪ Boundary Survey ▪ Topographic Survey
Northfield Road Bridge	Town of Wallingford, CT	▪ Topographic Survey
Joyner Hall, NWCC, Winsted, CT–	State of Connecticut DPW	▪ Boundary Survey ▪ Topographic Survey
Hamden Farms Residential Development	State Street Holdings, LLC	▪ Construction Stakeout ▪ As Built

PROJECT	PROJECT OWNER	SERVICES
Mary Wade Nursing Facility	City of New Haven, CT	▪ Construction Survey
Skane School	City of Bridgeport, CT	▪ Boundary Survey ▪ Topographic Survey
New London Parade Ground	City of New London, CT	▪ Boundary Survey ▪ Topographic Survey ▪ Easements ▪ Right of Ways
Multi-District Streetscape	City of Bridgeport, CT	▪ Topographic Survey
Waterbury Landfill	City of Waterbury, CT	▪ Topographic Survey
Smith Point	Town of East Lyme, CT	▪ Topographic Survey ▪ Field Survey
Thames River Development	Thames River Development Corporation, LP – Waterford, CT	▪ Construction Stakeout ▪ As Built ▪ Hydrographic Survey ▪ Easements and property transfers
Old Saybrook High School	Town of Old Saybrook, CT	▪ Boundary Survey ▪ Topographic Survey
Southern Connecticut State University	Department of Public Works	▪ Topographic Survey
US Coast Guard Academy Athletic Fields	US Coast Guard Academy – New London, CT	▪ As Built Topographic Survey ▪ Stakeout
Evergreen Residential Development	Trilacon Development – Cromwell, CT	▪ Construction Stakeout ▪ As Built ▪ Easements
Seymour High School	Town of Seymour, CT	▪ Boundary Survey ▪ Topographic Survey
Prospect Street Bridge	Town of Southington, CT	▪ Survey of existing conditions ▪ Topographic Survey ▪ River survey
West Hill High School	City of Stamford, CT	▪ Topographic Survey ▪ Boundary Survey

ENVIRONMENTAL SERVICES

MCA has a seasoned staff of Licensed Environmental Professionals, Professional Environmental Engineers, Professional Geologists and Field Technicians that provide an integrated suite of environmental, geological and hydrogeological consulting services. We help clients safely achieve their business objectives for clean and contaminated land management while controlling costs, satisfying regulatory obligations and managing community expectations. Our focus is on timely, responsive service and developing logical solutions that increase the value of resources and turn environmental responsibility into economic growth.

In addition to the environmental services that MCA provides, our personnel has experience with and has developed expertise in the environmental regulatory compliance and permitting process. Our environmental and engineering teams prepare and execute environmental and water discharge permits on a local, state and federal level for a variety of projects, with agencies such as the Connecticut DEEP and the Army Corps of Engineers. Based on this knowledge and experience, MCA offers clients a solid foundation for projects requiring permitting and regulatory coordination in the State of Connecticut.

Full Suite of Environmental Services Include:

- Environmental Site Assessments
- Soil & Groundwater Investigations
- Soil and Groundwater Remediation
- Environmental Permitting
- Environmental Impact Statements
- Property Transfer Act Consulting
- Underground Storage Tank Removal
- Regulatory Audit
- Site Landfill Dump Calculations
- Emergency Response Plans
- NEPA Studies
- Bridge Containment
- Hazardous Material Identification & Removal
- Contaminated Soil Transportation and Disposal

MCA'S Staff Has Experience Performing Environmental Services for...

- Mixed Solid Waste Facilities
- Public Water Supply Companies
- RCRA/CERCLA Facilities
- Brownfield Sites
- Manufacturing/Industrial Sites
- School Sites

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email@martinezcouch.com – www.martinezcouch.com

GIS SERVICES

MCA manages GIS projects involving the collection, analysis, and dissemination of data. Projects include management of enterprise level hardware and software systems to support storage and delivery of geospatial data, oversight of design and maintenance of databases including the development and compliance of accepted operating standards.

Full Suite of GIS services includes:

- Data Collection & Verification
- Needs Assessment Studies
- Georeferencing
- Map Creation Services
- Spatial Data
- Data Creation
- Data Conversion
- Database Design
- Data Modeling & Analysis
- Digitizing Services
- Plotting & Scanning Services

PERMITTING EXPERIENCE

At MCA, we work to obtain permits for our projects efficiently and promptly, working to minimize time and cost for our clients. Our years of experience, vast knowledge, and communication skills have enabled us to create a strong working relationship with the local and state regulatory agencies to ensure that the permitting process can proceed smoothly through to its conclusion.

MCA offers the following types of permitting services:

- Local Planning & Zoning Approvals (Zone Change, Special Use, Subdivision, Special Exception, etc)
- Local Wetlands and Conservation Approvals
- Discharge of Stormwater Associated with Construction Activity
- Discharge of Stormwater Associated with Industrial Activity
- Discharge of Stormwater Associated with Commercial Activity
- DEP Discharge Permit for Sanitary Sewage
- DOT Encroachment Permit
- VS-1 and VS-2 for Floor Drains and Oil/Water Separators
- Connecticut STC Certification
- Stream Channel Encroachment Permit
- School Facilities Unit applications
- DEP Flood Management Certification
- DEP Application for the Construction and Operation of a Solid Waste Facility
- Army Corp of Engineers Wetland Permit
- Army Corp of Engineers Water Quality Certification
- Connecticut River Assembly - CT River Corridor

City of Stamford

Stantec

2321 Whitney Avenue| Hamden, CT 06518