



Engineering
& Design

Prepared For
Town of Salisbury, CT

Village of Lakeville Planning Study

Pedestrian and Bicycle Access and Safety, Accessibility and Utility of Public Greenspaces, Traffic Circulation, Parking, and Stormwater Management

Revised July 14, 2022

April 29, 2022

Proposal No. 22003110P

135 New Road, Madison, CT 06443

Accelerating success.

April 29, 2022
Revised July 14, 2022

Ms. Abby Conroy, Land Use Administrator
Town of Salisbury
27 Main Street
PO Box 548
Salisbury, CT, 06068

Subject: RFP 02152022, Pedestrian and Bicycle Access and Safety, Accessibility and Utility of Public Greenspaces, Traffic Circulation, Parking, and Stormwater Management Study
Colliers Engineering & Design Proposal No. 22003110P

Dear Ms. Conroy,

Colliers Engineering & Design CT, P.C. dba Maser Consulting Engineering & Land Surveying (CED) is pleased to submit our response to the Town of Salisbury's Request for Proposals for Professional Planning Services. CED is a multi-disciplinary professional services firm with expertise in professional land use planning, civil engineering, landscape architecture, traffic engineering, environmental services, and surveying. Our planning staff includes licensed professional planners who are also nationally certified by the American Institute of Certified Planners (AICP). As a multi-disciplinary firm, CED is able to rely on in-house expertise when matters such as traffic impacts, pedestrian safety, environmental concerns, historic and cultural resources, and landscape design arise, as they often do in the site development review process.

Please note that as of November 1, 2021, Bergmann D.P.C. has joined CED to further enhance our mutual strengths, resources and capabilities and help our clients meet their goals. The qualifications included within this proposal represent the combined entity of Bergmann and Colliers Engineering & Design.

Thank you for your consideration. We look forward to working with you. If there are any questions or you require further information, please feel free to contact me at 862 324 0104 or via email at debbie.lawlor@colliersengineering.com.

Colliers Engineering & Design CT, P.C.
dba Maser Consulting Engineering & Land Surveying



Deborah Alaimo Lawlor, FAICP
Principal Associate | Planning Discipline Leader



Engineering
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Section 1

Project Approach,
Deliverables & Schedule

Project Understanding

Colliers Engineering & Design (CED) understands that the Planning and Zoning Commission of the Town of Salisbury is seeking an analysis of pedestrian and bicycle access and safety, accessibility and utility of public greenspaces, traffic circulation, parking, and stormwater management for the “downtown” core of the Village of Lakeville.

While the downtown appears bucolic in nature, the main street in the Village of Lakeville is US Route 44, a major east-west thoroughfare between New York and New England states that intersects with State Highway 41 which extends from the New York border into Massachusetts. These two roadways serve as major truck routes in the northwest region of the state. In addition to the volume of trucks, the speed of the vehicles on Route 44 is a concern. The current configuration of the Route 44 and Route 41 intersection needs to be evaluated for improvements to address safety, speed and turning considerations.

In addition to assessing the potential for vehicular traffic improvements, the Town is in need of recommendations for enhancements to the pedestrian and bicycle access in and through the downtown area. Currently there are locations where sidewalks are misaligned or non-existent, and there is a need to clearly establish areas designated for pedestrians and for bikes that are separated from vehicular traffic



lanes. These ideas combined with traffic calming measures and safe crossing designations on the main streets will improve the experience of the downtown area, slow traffic and provide an overall better experience.

Finally, the Town seeks input related to environmental sustainability and green design for a more resilient downtown including stormwater management and low impact design elements.



Project Understanding

The present area generally slopes towards the southwest and Lake Wononskopomuc. The idea is to look at methods to mitigate stormwater runoff and use those areas designated as open space within the natural drainage.

Overall, the proposed Phase One of the project is to look holistically at the area designated as the downtown and determine ways to improve the safety, appearance, circulation and ecological experience of this unique area.



The request for proposals clearly delineates the areas in need of study and improvement. They are listed as:

- Pedestrian access and safety
- Bicyclist access and safety
- Accessibility and utility of public greenspaces
- Traffic circulation
- Parking
- Stormwater Management

Towards this end the Planning Team of CED will work with the Village to review existing historical documents related to zoning, ecological factors, such as wetlands, Rights of Way, public properties within the downtown, and the present state of pedestrian sidewalks and crossings.

These items will inform the study and provide the basis for the planning process. The Planning Team will take this information and distill it in such a way that it can be presented in graphic formats, showing areas of concerns, based upon existing roadways and rights of ways, visibility caused by the sloping nature of the downtown and issues related to stormwater runoff. This mapping will also indicate how public properties, particularly the Lakeville Community Field and the Town Grove can play a role in the creation of a safer and more cohesive downtown.

The Planning Team will become familiar with the present uses within the downtown which as noted range from retail stores and commerce, to the post office and churches. All of these establishments play an important role in making Lakeville what it is today and will be vital to help in determining Lakeville's future.

PHASE 1: BASELINE PLANNING

1. Study Area Map

Prepare a final version of the study area map as follows:

Assess right-of-way, topographic, and location surveys in the field in the vicinity of the improvements as required to prepare base mapping for project design and preparation of construction drawings. Field work will generally consist of the following:

- Control survey and establishment of vertical benches and horizontal control points. All work will be based upon CCGS datum for horizontal control and USGS datum for vertical control, if existing horizontal and/or vertical control can be found within 0.5 miles of the project site, otherwise assumed datum shall be used.
- Schedule of property owners and preparation of property maps as may be required for easements.

Note:

- It is CED's intention to work with the local surveyor (Lamb Kiefer Land Surveyor, LLC) familiar with the historic nature of the area who will assist in identification and location of datum and monuments. CED has contacted and spoken to Mr. Kiefer regarding the project and are hoping that he will be available to help based on confirmation of the Town. Mr. Kiefer stated that he would be more inclined to work directly for the Town and CED has no issue if this is what the Town would like to do.
- All survey will be done to the required standards of a Class D survey, as per the RFP.

2. Topographic Map

Prepare a base map of the project area using available survey maps, USGS datum and GIS data and topography layers from Town of Salisbury.

3. Existing Parking Conditions

Identify all existing and potential parking spaces in the study area - noting which are publicly accessible spaces, which are private spaces associated with a particular store or other destination, and which are private and not available for public use.

CED will conduct field investigations of the Village of Lakeville study area in order to identify existing publicly available and privately owned parking areas within the Village. This will include an inventory of the existing parking within the Village area that is provided both on-street and off-street. Where privately owned parking is associated with a specific store, restaurant or other destination, this will also be identified.

The final deliverables will include detailed breakdowns of available parking spaces presented in a combination of tabular format and diagrammatic visuals. Where appropriate the survey information and available aerial photography will also be utilized to develop these visuals.

4. Analysis of Traffic and Circulation

Identify areas of immediate concern related to:

- Pedestrian access and safety
- Bicyclist access and safety
- Public greenspaces and vacant land
- Traffic circulation
- Parking
- Stormwater management

CED will conduct discussions with Town representatives to obtain a working knowledge of the concerns of the Town. CED also proposes to conduct traffic volume counts during a typical weekday afternoon and a typical Saturday at three (3) intersections within the Village that we believe are of critical importance. These will include:

- Millerton Road (U.S. Route 44) at Holley Street
- Millerton Road/Main Street (U.S. Route 44) at Sharon Road (State Route 41)
- Sharon Road (State Route 41) at Ethan Allen Street

The traffic data, which will be collected via a subconsultant (Traffic Data Bank) will provide information on vehicular traffic volumes and types of vehicles as well as pedestrians and bicyclists at each of these locations. The timing of this data collection effort will be coordinated with the Town to ensure the data is representative of typical peak conditions.

The above information, together with CED's observations of the overall traffic, pedestrian, bicyclist flows within the Village will be utilized to identify existing safety concerns, traffic circulation constraints and parking deficiencies. The traffic volume, pedestrian and bicycle count data will also be utilized inform decisions on types of measures to be implemented and identify appropriate locations for these measures.

Some initial observations based on our review of study area are the relative speed of traffic flow along Main Street and Sharon Road, parking availability for the Lakeville Community Field, Railroad Ramble and the Town Grove as well as accessibility/connectivity between these locations and Main Street. It is also noted that there appears to be substantial parking within the Village but most of which is privately owned with little to no sharing or parking between adjacent land uses limiting abilities for walking within the Village.

5. Conceptual Plans

Prepare access, circulation, and safety plans that recommend improvements or changes to alignments, dimensions, and other opportunities for improved and safer routes for:

- Pedestrians
- Bicyclists
- Traffic circulation

Based on the background data and information obtained by CED, conceptual plans will be development identifying recommended improvements to the study area roadways. These improvements could include various recommendations including but not limit to modifications to existing roadway alignments, installation of striping and signage for better delineation of traffic flows, modified circulation patterns and alternate intersection designs. These conceptual plans may also include recommendations for implementation of traffic calming measures, which can be implemented to both slow traffic down through the area Village area as well as to provide better delineated and safer routes for pedestrians and bicyclists. Use of raised crosswalks, pedestrian activated rectangular rapid flashing beacon signs and possible installation of High Intensity Activated Crosswalk (HAWK) signals will be explored. The conceptual plans will identify several alternative solutions for consideration by the Town and ultimately selection of a preferred alternative.

The concept plans will rely on a combination of the study area map, available aerial photography and other collected information to generate conceptual sketches and renderings.

- **Parking Plan** - Identify locations for parking opportunities and prepare a parking plan with implementation strategies.
- **Stormwater Management** - Identify locations for improved stormwater management and public greenspace. Prepare an engineered stormwater management plan and a landscape architecture plan to enhance greenspaces with accompanying implementation strategies.

6. Meetings

Prepare for and attend two Planning and Zoning meetings and one public charette.

7. Final Deliverable

Combine deliverables into a final conceptual plan accompanied by a detailed narrative, identifying, immediate, short-term, and long-term actions. Include plans and renderings necessary for implementation in stages. This conceptual plan and narrative should include pertinent boundaries such as wetlands and watercourses, wetland and watercourse upland review areas (URAs), Lake Protection Overlay District, and the Aquifer Protection Area (APA).

PHASE 2: IMPLEMENTATION

The costs to provide the Phase 2 Implementation portion of the work will need to be based upon the scope of proposed improvements developed in the Phase 1: Planning phase of the work. The background information, survey and mapping will have been completed and the recommendations outlined, but the preliminary cost estimates and construction level documents will not have been developed. It should be noted that a current topographic survey is not included within Phase 1 of this proposal and will be required prior to engineering design. It is our understanding that the topographic survey will be prepared by Mr. Kiefer under separate contract with the Town when needed for Phase 2 of this project.

The range of the recommendations from the first phase, from the development of pedestrian and bicycle circulation systems, the development of designated crossing and other traffic related issues, to the potential expansion of the cartway and right of way to accommodate multiple users safely, or recommendations for signage and other means to slow traffic and provide direction and interest, is so vast and varied in potential scope and cost that in order not to limit the visioning in the first phase, it would be premature to provide any costs.

CED understands that the following would be the necessary steps to develop any ideas into construction level documents and is fully capable of providing all of the services necessary in house. Once the scope is defined, we will be glad to provide engineering design costs.

1. Implementation Plan & Timetable

Consult (CED) will work with the Planning & Zoning Commission to establish an implementation plan accompanied by timetable.

2. Cost Estimates & Preliminary Plans

Based upon the Phase 1 deliverables that establishes an ordination of actions to be taken by the Town for referral to the Board of Selectmen/Finance, prepare cost estimates and preliminary drawings (as needed) based.

Design Plans

1. Finalize designs for priority actions as endorsed by the Board of Selectmen/Finance for review and permitting by required entities (State & Town Commissions/Departments).

Final/Construction designs shall consist of:

- 1" = 40' scale design drawings outlining the proposed designs
- Final construction drawings 1" = 20' scale, as appropriate
- Stormwater Management Plan(s)
- Maintenance and protection of traffic, if required
- Detailed estimates of construction costs, including materials
- Prepare 90% plan submission to Town of Salisbury for review
- Prepare subsequent 100% plan submission to Town of Salisbury for review
- Provide bid documents and assemble the bid packages. American Association of State Highway and Transportation officials (AASHTO), State of Connecticut DOT Form 817 will be utilized as the base technical specifications and the consultant will prepare supplemental technical specifications, special provisions and quantity estimate, as necessary for public bidding and award of the construction contract. Submit one set of final plans, an original copy of all special provisions and mylars of contract drawings for public bidding by the Town, assist the Town in bidding the project electronically
- Provide hourly rate to attend review meetings with Town staff and agencies beyond what is specified in the RFP
- Review bids received by the Town for accuracy and check references. Report to the Town on a recommendation for selecting contractors
- Based upon the approved preliminary design concept, documentation will be prepared and submitted to appropriate Federal, State and local agencies for permitting and/or review. As may be appropriate, permits are expected to include:

- ✓ State of Connecticut Department of Transportation
- ✓ Town of Salisbury – Planning & Zoning Commission and the Inland Wetlands & Watercourses Commission.
- ✓ State or local Historic District Commissions
- ✓ Consultation with State of Connecticut DEEP, as needed

Town of Salisbury, Lakeville Downtown Pedestrian and Traffic Study (Phase 1)

SCHEDULE

Task	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8																						
Task 1 - Public Outreach / Stakeholder Meetings																														
Project Kick-Off Meeting & Communication	<div></div>									<div></div>												<div></div>								
Public Workshops												<div></div>																		
																								<div></div>						
Task 2 - Phase 1: Planning Tasks																														
Study Area Map					<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>																			
Topographic Survey								<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>																	
Existing Parking Conditions								<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>																
Analysis of Traffic and Circulation								<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>													
Conceptual Plans															<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>					
Meetings (see above)																														
Final Phase 1 Planning Document																							<div></div>	<div></div>	<div></div>	<div></div>	<div></div>			
<div><div></div> CED Tasks<div></div> Public Workshops/Events<div></div> Town Working Meetings<div></div> Public Presentation</div>																														

Section 2

Corporate Profile

**Colliers****Engineering
& Design**

Firm Overview

Colliers Engineering & Design is a trusted provider of multi-discipline engineering and architecture, consulting and design delivering customized solutions to public and private clients. Established in 1984 as Maser Consulting, Colliers Engineering & Design maintains its same dedicated leadership, systems and services to clients. Today, the firm employs over 1,800 professionals nationwide. Over its history, the company has consistently been recognized nationally by Engineering News Record as a Top 500 Design Firm and ranked on The Zweig Group Hot Firm List of fastest growing companies.

Driven by our values of quality, accountability, and safety in the work environment our dedicated professionals take pride in their commitment to providing clients the highest standards of customer service. Our full-service, in-house resources, advanced technologies, and proven project management approach combine to provide accessibility to resources and strategies that maximize the success of our clients' project potential.

Core Disciplines

Civil/Site

- Commercial & Residential
- Landscape Architecture
- Land Use Planning
- Water Resources

Transportation

- Traffic Engineering & ITS
- Transportation Planning
- Highway Design
- Bridges

Governmental

- Civil Engineering
- Water/Wastewater
- Planning
- Landscape Architecture
- Coastal/Marine Engineering
- Geographic Information System (GIS)
- Grants & Funding

Survey/Geospatial

- Land Survey & Measurement
- Mobile & Static LiDAR
- Unmanned Aerial System (UAS)
- Rail & Tunnel
- Subsurface Utility Engineering (SUE)

Infrastructure

- Structural Engineering
- Construction Engineering & Inspection
- Coastal/Marine Engineering

Geotechnical/Environmental

- Geotechnical
- Environmental
- Natural Resources

Architecture

- Energy & Sustainability
- Interior Design

Telecommunications

- Cell Site Modification & Design
- New Site Build
- Small Cell & DAS
- Structural Analysis & Design
- Fiber Construction Network & Design

Utilities/Energy

- Renewables
- Substation Design
- Oil & Gas Pipelines
- Transmission & Distribution
- Electrical System Design

Project Management

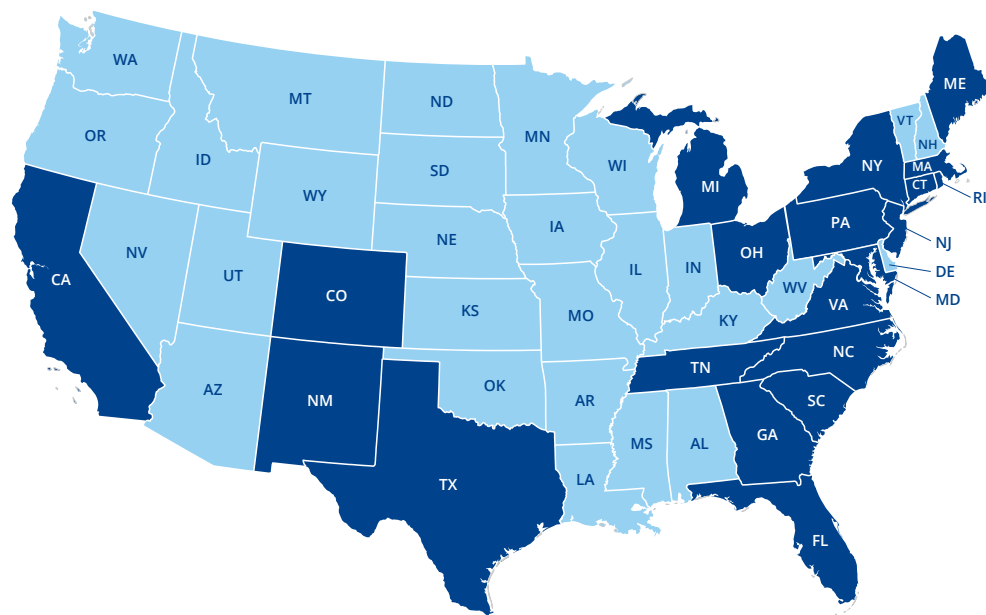
- Project & Program Management
- Planning & Advisory Services
- Commissioning & Energy Services

1984–2022
38 Years of Experience

Accelerating success.



Engineering
& Design



Office Locations

For a detailed listing of our office addresses please visit colliersengineering.com

California

Los Angeles

Colorado

Denver

Connecticut

Madison
Stamford

Florida

Boca Raton
Fort Myers
Jacksonville
Miami
Orlando
Tampa

Georgia

Atlanta

Michigan

Grand Rapids
Lansing
Southfield

Maine

Brunswick

Massachusetts

Agawam
Boston

Maryland

Columbia

New Jersey

Clinton
Egg Harbor
Hamilton
Mays Landing
Montvale
Mt. Arlington
Mt. Laurel
Red Bank*
Totowa

New Mexico

Albuquerque

New York

Albany
Binghamton
Buffalo
Goshen
Newburgh
New York City
Rochester
Syracuse
Westchester

North Carolina

Charlotte
Raleigh
Wilmington

Ohio

Toledo

Pennsylvania

Conshohocken
Cranberry
Exton
Lehigh Valley
Philadelphia
Pittsburgh
Trevose

Rhode Island

Providence

South Carolina

Columbia

Tennessee

Nashville

Texas

Bryan
Dallas
Houston
New Braunfels
San Antonio

Virginia

Norfolk
Sterling

Washington, D.C.

*Corporate Headquarters located in Red Bank, NJ

Contact & Qualifications

Colliers Engineering & Design

Name: Debora Alaimo Lawlor, FAICP, PP
Title: Planning Discipline Leader
Email: Debbie.lawlor@colliersengineering.com

135 New Road
Madison, CT 06443

Direct Line: 860 395 0055
Cell: 862 324 0104

Professional Planning

Our planning professionals take into consideration the past, present, and future needs of communities to create a balanced vision between environmental sustainability, positive land use, and economic growth. We have the experience to address all aspects of comprehensive planning for municipalities, counties, and regional agencies. We analyze and evaluate existing resources, issues, and conditions to assist regional and local governments in the establishment of goals and objectives for future growth. We also assist with the development of strategic planning policies embodied in planning documents such as master plans, zoning ordinances and redevelopment plans. Our staff includes AICP professionals who are responsive and dedicated to performing all work on time and within budget.

Colliers Engineering & Design's planning professionals are current in Municipal Land Use Law, redevelopment law, and court decisions that affect land use and development controls and zoning regulations. We are also well-versed in the latest innovative planning principles, including neo-traditional neighborhood design and "Smart Growth" initiatives.

Colliers Engineering & Design has prepared and/or modified zoning maps for many of our municipal clients using GIS technology. We have experience with a variety of special projects, including areas in need of redevelopment studies, redevelopment plans, downtown revitalization and streetscape studies, open space and recreation master plans, visioning studies, form-based codes, affordable housing studies, and sustainable economic development plans.

Planning Services

- Community Master Plans
- Master Plan Reexamination/Revision
- GIS Asset Management
- Greenway Studies
- Recreational Master Plans
- Traffic Circulation Master Plans
- Special Improvement Districts
- Grant Applications/Writing
- Affordable Housing Plans
- Development Site Yield Analysis
- Redevelopment Plans
- Land Planning & Design
- Variance & Rezoning Applications
- Ordinance Updates
- Feasibility Studies
- Expert Testimony
- Downtown Revitalization
- Developer Agreements

Section 3

Relevant Experience

Planning Services

Our professional planners have the expertise and experience to address all aspects of municipal and regional planning and design.

We analyze and evaluate existing resources and conditions to assist regional and local governments in the establishment of goals and objectives, and the development of strategic planning policies. These foundations are translated by our Professional Planners into action items, including master plans and zoning ordinances.

Utilizing a vast knowledge of planning standards, regulations, and innovative planning techniques, our Planning Team is uniquely positioned to service all municipal and regional planning needs.



Customized solutions to meet your project goals

- Community & Regional Master Plans
- Affordable Housing Plans
- Conservation Plans
- Form Based Codes
- Community Visioning & Public Outreach
- Highlands Regional Master Plan Conformance
- Recreation & Open Space Master Plans
- Redevelopment Area Studies & Plans
- Community Revitalization Plans
- Development Application Planning & Zoning Board Review
- Eminent Domain Litigation
- Grant Applications/Writing
- Ordinance Updates
- Litigation Support
- GIS Mapping & Analysis
- Sustainable Economic Development Plans



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Project Profile

Project Highlights

Client:

Point Pleasant Beach
Borough
Mayor Paul
Kanitra'732.892.0510

Completion:

2020

Consulting Value:

\$7,000

Services:

Master Planning, GIS/
Asset Management,
Planning, Public
Outreach, Ordinance
Amendment

Historic Preservation District Overlay and Zoning Code

Point Pleasant Beach Borough, NJ

Project Description

Colliers Engineering & Design worked with Point Pleasant Beach Borough officials and representatives of the Point Pleasant Beach Historic Preservation Commission to define the boundaries of a historic downtown district, to prepare incentivized zoning for businesses and residences within the delineated jurisdiction, and to create an overlay zoning map. Public engagement included an online Business Summit to explain the purpose and incentives of the overlay district and how changes will enhance the overall aesthetic and vitality of the downtown commercial district.



Project Profile

Project Highlights

Client:

Union Township

Don Travisano,
Township
Administrator
908.851.8500

Completion:

2020

Services:

Master Planning, GIS/
Asset Management,
Stormwater
Management Services,
Transportation
Planning, Sustainable
Design, Public
Outreach, Story Map
Creation, Community
Online Survey

- 2021 New Jersey
Planning Officials
Achievements in
Planning Award

Union Township Master Plan

Union Township, NJ

Project Description

Colliers Engineering & Design prepared a new Master Plan for Union Township, replacing the prior plan which had not been updated in its entirety since 1982. After examining the current plan and 40 years of amendments, our planners produced a comprehensive analysis and update of data for all plan elements and documented the status of goals and objectives in the 1982 Plan.

Our staff facilitated various community engagement meetings using different techniques throughout the Master Plan process. These included stakeholder interviews, multiple public workshops, subcommittee meetings, and public hearings. As a result of this feedback, the firm authored new plan elements that would help guide Union Township's future growth and development, particularly around its downtown, neighborhood centers and transit station through the lens of land use, transportation, economic development, green building and environmental sustainability, housing, parks and recreation, stormwater management, historic preservation, and community facilities.

State Street Park & Downtown Placemaking

Auburn, NY



PROJECT HIGHLIGHTS

- Community Involvement
- Concept Plan and Graphic Development
- Flexible Space Design
- Construction Drawing Development
- Environmental Assessment
- Incorporation of the Arts

Client:

City of Auburn
Jennifer Haines, Director
(315) 255-4115

Completed:

2022

PROJECT DESCRIPTION

Located in the heart of downtown Auburn, the State Street Park is the location of the former Kalet's department store. The building, which laid vacant for several years, was eventually demolished in 2015 creating a void in the streetscape. Through the Auburn Sparks Brownfield Opportunity Area study, a market conditions analysis was completed recommending the City develop the site as a public green or outdoor urban plaza space that allows room for arts, cultural and performance events. Bergmann was hired by the City of Auburn to design the park, incorporating input from the community gathered through a series of public engagement activities. Bergmann was able to solicit input from the community and create a series of concept plans that satisfied both the wants and needs of the public. In addition to the park space, Bergmann is designing aesthetic treatments for the streetscape, creating a holistic design for this active downtown corridor.

Downtown and Waterfront Public Realm Improvements

Canandaigua, NY



PROJECT HIGHLIGHTS

- Pedestrian and Bicycle Improvements
- Placemaking
- Public Realm Enhancements
- Economic Development + Tourism
- Signage and Wayfinding

Completed 2020

Contact:

Genesee Transportation Council
Bob Williams, Program Manager
(585) 502-8751

PROJECT DESCRIPTION

Bergmann is currently collaborating with the City and Town of Canandaigua on an Active Transportation Plan for South Main Street and Lakeshore Drive in the City. The corridor runs along the Canandaigua waterfront and provides a direct link to downtown and is a unique area for both residents and tourists; however, the Route 5 and 20 intersection presents a daunting experience and barrier for those on foot or bike. The purpose of this plan is to identify pedestrian and bicycle improvements as well as public realm enhancements to create enhanced connectivity and safety for multi-modal users along the corridor that provides access to local and regional destinations. When completed the plan will include of a detailed existing conditions analysis, preferred transportation and streetscape concepts, as well as a funding and financial plan to assist with the implementation of future infrastructure improvements.

Art Walk Urban Trail and Placemaking

Rochester, NY



PROJECT HIGHLIGHTS

- Public Art
- Community Engagement
- Urban Art Trail
- Placemaking Destination
- Streetscape Amenities

Contact:

City of Rochester, NY
James R. McIntosh, P.E.
City Engineer
(585) 428-6828

Completed:
2012

PROJECT DESCRIPTION

The Art Walk project is a unique blend of public infrastructure improvements and artistic express along an important historic roadway through Rochester's Neighborhood of the Arts. This project improved pavement deficiencies along University Avenue and enhanced the public realm. An even greater impact the project had on the neighborhood and region was to create an 'outdoor museum' and gathering place for residents and visitors alike.

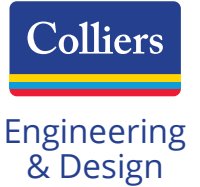
The infusion of everyday streetscape infrastructure with art results in a memorable place—making destination within the city. This destination, known as Art Walk, is branded by the inclusion of art within the public realm both as commissioned exhibit pieces, as well as being incorporated into the various streetscape elements such as sidewalks, benches, utility boxes, and bus shelters. These indirect design elements along with the commissioned artwork have permanently altered the context of the University Avenue corridor; the street is now more than a conduit for vehicles, it is a medium for artistic expression where residents of all ages have free, safe everyday access to extraordinary creative experiences.

Section 4

Project Staffing

Deborah Alaimo Lawlor, FAICP, PP

Principal Associate | Planning Discipline Leader



Education

M.A. Geography, Rutgers University, 1985

B.S. Environmental Planning and Design, Rutgers University, Cook College, 1980

Professional Registrations

Professional Planner (PP) New Jersey

American Institute of Certified Planners (FAICP)

Affiliations or Memberships

New Jersey Planning Officials

New Jersey Climate Change Alliance, Long Term Planning Committee Co-Chair

American Planning Association/American Institute of Certified Planners National AICP President/Commissioner – Chair Certification Maintenance Evaluation Task Force, Former Chair Community Assistance Planning Services Committee, Former Chair Membership Committee, Former Co-Chair Exam Committee, Member of APA Education Committee and Research Committee, Member of APA Sustainable Development Taskforce

Experience

Ms. Lawlor has over three decades of professional planning experience and is a nationally recognized planning expert working with municipalities, regional authorities, counties, state and federal agencies, as well as private clients. She has facilitated the preparation of planning reports for applications submitted to multiple boards and agencies and is well-versed in redevelopment investigations and plans, master plans and reexaminations, resiliency planning, and grant application processes. Ms. Lawlor has facilitated community engagement initiatives around the country for projects and topics including brownfields redevelopment, transportation-oriented development, recreation and open space planning, creation of an arts district, healthy community planning, affordable housing, pop-up retail, bicycle/pedestrian connectivity, and more. As Immediate Past President of the American Planning Association's American Institute of Certified Planners, she has chaired numerous committees including the national Community Assistance Planning Services Committee that provides professional planning and stakeholder engagement services to areas in need.

Representative Projects

Union Township Master Plan and Story Map Union Township, Union County, NJ

Provided planning services to Union Township for preparation and adoption of a new comprehensive Master Plan and Story Map. It was the desire of Union Township to update their nearly 1982 Master Plan which was periodically reexamined over nearly four decades. The new master plan contains nine elements including Land Use, Circulation, Economic Development, Housing, Green Building and Environmental Sustainability, Community Facilities, Historic Preservation, Parks, Recreation and Open Space, and Stormwater Management. An ESRI GIS based story map was created to present the document to the public in an interactive, easy to understand format. It contains text, images, maps and charts related to each element. This a public information as well as a community engagement tool. Union Township Master Plan story map included a survey option to collect public comment and engage the public during the pandemic.

Pompton Lakes Master Plan Reexamination Pompton Lakes Borough, Passaic County, NJ

Provided planning services to Pompton Lakes for preparation and adoption of a Master Plan Reexamination Report. Report addresses updated goals and objectives, redevelopment opportunities, and recommendations including changes to the Borough Zoning Ordinance/Map and design guidelines, creating a sidewalk improvement program and updating recreation and open space inventory.

Resume

Ramapo Valley County Reservation Management Plan, Bergen County, NJ

Providing planning services to Bergen County to guide the vision for the future of Ramapo Valley County Reservation. Responsibilities include holding a charrette with Parks Department professionals, meeting with key stakeholders, holding a public open house, and developing a report regarding how to manage the park's natural resources, recreational activities, and facilities into the future.

Route 36 Corridor Study and Design Standards, Middletown Township, Monmouth County, NJ

Facilitated community engagement process for two NJDEP Post-Sandy Grant projects including a public visioning event to gather information specific to five Middletown neighborhoods along the Route 36 corridor and multiple public meetings. Findings and recommendations were conveyed in the form of new design standards and overlay zoning to improve economic growth and synergy with adjacent land uses. The study analyzed impacts of Superstorm Sandy to determine where inclusion of resiliency measures and green infrastructure may best enhance future development potential.

Naval Weapons Station Earle Joint Land Use Study (JLUS), Monmouth County, NJ

Supervised the preparation of a Joint Land Use Study for NWS Earle located in Monmouth County. The JLUS is a cooperative land use planning effort between the affected local governments and the military base, in this case representatives of Monmouth County, the base municipalities (Colts Neck, Howell, Middletown, Tinton Falls, and Wall), the Military Influence Area municipalities (Atlantic Highlands, Highlands, Eatontown, Farmingdale, Freehold Township, Keansburg, Neptune, and Ocean), and NWS Earle. The JLUS process includes working with stakeholders to ensure a harmonious existence, minimizing operational effects on neighboring jurisdictions and the encroachment of the civilian community within a military influence area to avoid any impact to the continued operational utility of the military installation or public health, safety and welfare. It also researches potential to enhance economic growth related to the needs of the military base, its employees, and residents.

Bergen County Master Plan, Bergen County, NJ

Retained by the County of Bergen to develop the County's first comprehensive master plan since the 1970's. Demographic data is being compiled and land uses mapped to prepare a social, economic, cultural, and physical profile of the County. Colliers Engineering & Design will facilitate a community engagement workshop to receive local input. In addition to the text of each Master Plan element, matrices of goals, objectives, and action items will be incorporated into the final elements.

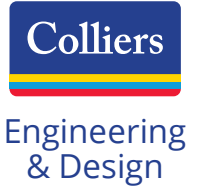
Mahwah Township Master Plan Reexamination/Amendments and Zoning Code Update

Mahwah Township, Bergen County, NJ

Provided planning services to Mahwah Township for preparation and adoption of a Master Plan Reexamination Report and Amendments, as well as an updated Zoning Code. The Master Plan Reexam identified changes to the Land Use Plan and recommended the updating and creation of several new elements. The Master Plan Reexam also identified numerous updates to the municipal zoning code to modernize the code and address missing sections including definitions, design guidelines, signage, specifications related to bulk requirements and an updated zoning map. Amendments to the Master Plan addressed the addition of a Statement of Strategy, electric vehicle charging stations, revisions to the Land Use Map, and zoning recommendations.

Gerald DeFelicis, Jr., LLA, RLA, PP

Senior Project Manager | Planning



Education

B.S. Landscape Architectural and Environmental Planning, Rutgers University, 1983

Professional Registrations

Licensed Landscape Architect (LLA) New Jersey

Registered Landscape Architect (RLA) Pennsylvania

Professional Planner (PP) New Jersey

Affiliations or Memberships

American Society of Landscape Architects

NJ Chapter of the American Society of Landscape Architects

NJ Recreation & Parks Association

Experience

Mr. DeFelicis has over 35 years of varied experience within the fields of landscape architecture and planning. His expertise lies in educational and recreational design, and he is fully versed in the management and design of projects, including site analysis, conceptual and final design, design development, construction document preparation, and project site supervision.

Mr. DeFelicis' current responsibilities include the coordination, design, and overall management of recreation facility projects and the provision of landscape architectural services in the Philadelphia and Southern New Jersey region. He has been instrumental in the creation and development of many stormwater management design initiatives within the City of Philadelphia. By combining his landscape architectural background with his many years of experience in urban landscape design, construction, and engineering-related fields, Mr. DeFelicis has been able to provide innovations that are both practical and capable of implementation on a broad scale.

Representative Projects

Atlantic City Municipal Access Plan City of Atlantic City, Atlantic County, NJ

As both a shore and bay front community, Atlantic City strives to provide comprehensive public access for all of its tourists and residents. One of the City's main ongoing goals is to maintain and improve all existing public access points, create new public access where appropriate, and ensure that the location of waterfront access is better identified for residents and visitors. To help achieve that goal, the City retained Colliers Engineering & Design to prepare a Municipal Public Access Plan. The Municipal Public Access Plan (MPAP) analyses the existing conditions and lays out a vision for providing access to tidal waters and shorelines within the municipal boundary. To prepare the plan, Mr. DeFelicis completed a report containing an inventory of existing public access points; a City map indicating the locations; a general description of the City and the beach and bay; a map showing all waterways; a summary of the City's goals, policies, and objectives; an inventory of any access restrictions; and an assessment of additional access needs. The MPAP was developed in accordance with Coastal Zone Management Rules, and its development and implementation supports the policy of local determination of public access locations and facilities, while safeguarding regulatory flexibility.

Resume

Naval Weapon Station Earle, Joint Land Use Study (JLUS)

Monmouth County, NJ

The lead consultant for the Monmouth County directed planning effort of a Joint Land Use Study (JLUS) for Naval Weapons Station (NWS) Earle, which is a US Department of Defense (DoD) facility located in the heart of the county. NWS Earle was commissioned in 1943 with a mission to provide ordnance for the Atlantic Fleet Carrier and Expeditionary Strike Groups, and the JLUS is a recent attempt at a cooperative land use planning effort between local governments and military installations. While the mission of the facility has remained constant, the county has grown in population around it, posing a number of issues that required open dialog between all parties. Mr. DeFelicis led the team of national recognized consultants, HR&A, AECOM, and Rutgers University Climate Specialists to evaluate the existing conditions of the area from Economic to Climate Resilience standpoint, and to plan for future courses of action that can benefit all parties.

Post-Sandy Planning Grant Initiatives

City of Atlantic City, Atlantic County, NJ

Worked with the City of Atlantic City on the development of Post-Sandy Planning Strategy and initiatives, as part of the Federal FEMA planning program for resilient redevelopment of shore areas. The entire planning process, from the initial gathering of historic and sociological data to working with the public on the visioning process for each of the four designated study areas, was organized by Mr. DeFelicis. Once assembled, this information provided the bases for the development of Conceptual Design Plans that address the pressing issues of spurring economic development, while providing a sustainable environmental plan for future growth. This includes developing a range of strategies for redevelopment and "greening" recommendations to provide guidance into the future.

Middletown Route 36 Corridor Study

Middletown Township, Monmouth County, NJ

The Township of Middletown was awarded a Sandy Planning Assistance Grant administered by the State Department of Community Affairs for the development of Design Guidelines for the planning and redesign of the Route 36 Corridor along the northern edge of the Township adjacent to the Sandy Hook Bay. Route 36 is a State Highway stretching approximately eight miles from Keansburg in the west to the Highlands in the east. The properties along the corridor contain a mix of both commercial and residential uses. Route 36 was already underutilized because of its remote location, and the aftermath of Superstorm Sandy only exacerbated the problem.

Mr. DeFelicis assisted in the development of the Design Guidelines, in conjunction with an update of relevant ordinances to help codify special design standards for an overlay district that can guide improvements in the future for the Route 36 Corridor and its gateway centers. He engaged the community to gather information about existing conditions and potential future land uses. The goal is to revitalize this corridor and further the Township goal of economic development, in order to enable reconstruction efforts, foster a sense of unity in the neighborhoods along the route, and maintain an appealing aesthetic for the area.

Resume

Bay Head Borough Master and Neighborhood Plans

Bay Head Borough, Ocean County, NJ

Bay Head is a small community along the shore located between Point Pleasant and Mantoloking in Ocean County. The Borough was in the path of Superstorm Sandy in 2012 and suffered damage, particularly along the Barnegat Bay or backbay portion of the municipality. Planning grants were used to review the current standards and zoning codes and to look at ways that the Borough could be more resilient while also increasing its adaptability and appearance. One of the main features of Bay Head is Twilight Lake, a tidal waterbody fed from the bay. This feature adjacent to the downtown area has long been in question, with people occasionally using the area for fishing and paddle boarding. The Master Plan's goal was to revive this area and engage users with floating walkways and bridges to connect former railroad trestles and to make the lake a recreational destination.

Kingwood Township TDR Plan

Kingwood Township, Hunterdon County, NJ

Working with the local municipality to plan for strategic growth through the use of the Transfer of Development Rights (TDR) designation as a means of consolidating growth for the creation of a town center area, while allowing farmland areas to sell their development rights to retain the rural character of the area. The ability to concentrate development is seen as a way to reduce the impact on the entire region and pressure for development in a piecemeal fashion by removing the need to extend infrastructure into areas that will remain in farmlands.

Richard G. D'Andrea, Jr., PE, PTOE

Principal Associate | Project Manager



Experience

Mr. D'Andrea has 13 years of experience in various aspects of traffic and transportation engineering; including the preparation of various studies for a variety of land use types including retail centers, residential subdivisions, hotels, office complexes, mixed use developments, etc. These studies include traffic impact evaluations, capacity analyses, signal warrant studies, parking utilization studies, accident investigation studies and justification studies. He has also been responsible for coordinating SEQRA reviews for multiple New York State Municipalities. Mr. D'Andrea has also been responsible for the development of preliminary and final roadway improvement and traffic signal plans as well as conducting detailed cost estimates for such improvement projects and assisting in obtaining NYSDOT Highway Work Permits work within the state Right-of-Way. He also has been responsible for providing Construction Administration services for NYSDOT Highway Work Permit projects. Mr. D'Andrea has significant knowledge of traffic engineering and highway design software including AutoCAD Civil 3D, Synchro, HCS and AutoTurn. He also has experience with other related software programs such as TSIS-Corsim, Transyt-7F and Microstation. He is responsible for the preparation of Priority Investigation Location (PIL) reports when such preparation is directed by the state under the New York State Highway Safety Investigation (HIS) Program. His responsibilities include the collection and summarization of accident data for the identified PIL location as well as the preparation of accident diagrams.

Representative Projects

LEGOLAND, Town of Goshen, Orange County, NY

Project Manager responsible for traffic impact evaluations, including all traffic projections, capacity analysis, and identification of mitigation measures as part of the SEQRA review of this major regional entertainment attraction. Completed all traffic study documents for DEIS, FEIS, and Findings. Coordinated design and preparation of detailed access and offsite roadway improvement and traffic signal plans for obtaining New York State Department of Transportation Highway Work Permits including preparation of Design Report and related design plans for a new highway interchange for NYS Route 17/Future I-86. Developed detailed highway Work Zone Traffic Control Plans for all phases of work. Prepared bid documents for Contractor bidding of offsite improvement project as well as onsite bridge construction project. Reviewed all Contractor bids, conducted interviews with short listed Contractors and assisted in Contractor selection. Provided Construction Administration services throughout the 2+ year construction of the offsite roadway improvements including coordination of multiple Contractors work, coordination of all consultant inspection efforts on behalf of NYSDOT and coordination with NYSDOT Engineer-in-Charge. Conducted weekly progress meetings and maintained project schedule.

Education

M.S. Transportation Planning and Engineering, Polytechnic Institute of New York, 2012

B.S. Civil Engineering, University of Delaware, 2007

Professional Registrations

Professional Engineer (PE) New York

Professional Traffic Operations Engineer (PTOE)

Professional Training

Traffic Signal Change & Clearance Intervals (2020)

Traffic Signal Detection & Smart Work Zones (2020)

Intelligent Transportation Systems (2019)

PTOE Refresher (2018)

Integrated Corridor Management (2017)

AutoTurn (2016)

Highway Capacity Manual 2015 Update (2015)

Construction Traffic Management (2014)

Adaptive Traffic Signal Control (2013)

Roundabout Design and Operation (2012)

Affiliations or Memberships

American Society of Civil Engineers

Institute of Trans. Engineers

National Soc. of Prof. Engineers

Resume

Amy's Kitchen/Science of the Soul, Village of Goshen, Orange County, NY

Project Manager responsible for preparation of traffic projections, capacity analysis, and intersection evaluation for traffic impact studies as part of the SEQRA process. Responsible for compilation of detailed analysis and simulations for this manufacturing warehouse and religious retreat facility. Prepared detailed design plans for offsite roadway improvements along NYS Route 17M including development of traffic signal plans for issuance of NYSDOT Highway Work Permits. Coordinated all permitting with Client, Contractors and NYSDOT for offsite improvements including Route 17M intersection improvements and utility installations. Prepared bid documents for Contractor bidding of offsite improvement project as well as onsite bridge construction project. Reviewed all Contractor bids, conducted interviews with short listed Contractors and assisted in Contractor selection.

U.S. Route 1, Roadway Diet Program, City of Rye, Westchester County, NY

Preparation of design documents including pavement marking alterations, raised and flush median installation and signing inventory and evaluation for upgrade of an approximately two-mile section of U.S. Route 1. Preparation of Synchro analysis for signalized intersections to determine new signal timings to accommodate the diet.

Patterson Multimodal, NYS Route 311, Town of Patterson, Putnam County, NY

Contributed to the design of roadway improvements including the widening of an approximately ¼ mile stretch of NYS Route 311 at the Interstate 84 interchange to provide left turn lanes at the two I-84 ramp intersections. Also provided detailed designs for two new traffic signals at the Interstate 84 ramp intersections. Developed detailed cost estimates for the proposed improvements which were then incorporated into contract bid documents. Coordinated response to contractor's requests for information during the bid process.

Arthursburg Commons/Dunkin Donuts, NYS Route 82, Town of Lagrange, Dutchess County, NY

Prepared a complete traffic study for the proposed Dunkin Donuts facility including collection of traffic data, estimates of trip generation and analysis of area intersections impacted by the project traffic. Developed several different access scenarios using the existing access driveways to the Arthursburg Commons shopping center. Performed signal warrant analysis for the main access intersection to determine need for a future traffic signal. Developed conceptual layout of improvements to NYS Route 82 to provide a left turn lane at the main site access intersection. Prepared detailed design documents for the left turn lane improvement as well as the signal to be constructed at the site access intersection. Coordinated improvements with NYSDOT to obtain a Highway Work Permit. Also used AutoTurn to analyze ability of delivery vehicles to circulate within the site.

Rivertowns Square SEQRA Review, Mixed Use Development, Dobbs Ferry, Westchester County, NY

Conducted detailed review of traffic reports and analysis as consultant to the Village Board for the mixed-use development project that consists of approximately 200 residential units, approximately 200,000 SF of commercial space including, a movie theater and an approximately 100 unit hotel. Worked closely with the Applicants consultants to develop the Final Environmental Impact Statement and the Findings Statement. Developed several alternatives for improvement scenarios and conceptual improvement plans for roadways within the Village impacted by the project including in residential neighborhoods nearby the development.

Elizabeth Podowski King, ASLA, AICP

ASSISTANT PROJECT MANAGER/LANDSCAPE ARCHITECT



BACKGROUND

Liz has expertise in planning, landscape architecture, community engagement, and ecology. She thoughtfully approaches every project from an interdisciplinary perspective, valuing the unique characteristics and connections of a site. Liz's portfolio of work is comprised of public sector projects that advance community priorities, and she has the ability to take a project from planning through design and implementation. Her experience includes master planning, downtown revitalization, active transportation and complete streets, parks and trails design, and environmental review. Liz is driven by a passion for designing places that improve the quality of life for all. She is a talented communicator, an active listener, and she has extensive experience implementing creative public engagement strategies tailored to community needs.

Education

MLA, Landscape Architecture
University of Oregon

MS, Biology
Pennsylvania State University

BS, Biology and GIS Minor
Pennsylvania State University

Professional Affiliations

American Society of Landscape
Architects

Eastern Section Chair of New York
Upstate Chapter of ASLA

Licenses

Connecticut

PROJECT EXPERIENCE

- Arrowhead Gateway Master Plan | Hartford, CT | Project Manager
- State Street Park & Downtown Placemaking | Auburn, NY | Landscape Architect
- Genesee River Park and Open Space Master Plan | Rochester, NY | Landscape Architect
- City Green Master Plan | Rome, NY | Landscape Architect
- Waterfront and Open Space Master Plan | Rome, NY | Landscape Architect
- Lark Street Improvement Study | Albany, NY | Project Manager
- Sheridan Hollow Master Plan | Albany, NY | Project Manager
- Albany County Economic Development Plan | Albany, NY | Project Manager
- *Stratford Complete Street Plan | Stratford, CT | Assistant Project Manager
- Lower Niagara Shoreline Trail Connectivity Study | Niagara County, NY | Landscape Designer/Planner
- *Southern Regional Council of Governments | Complete Streets Toolkit | CT | 2017 | Landscape Designer
- Canandaigua Active Transportation Plan | Canandaigua, NY | Landscape Designer
- NYS Route 104 Complete Streets Plan | Oswego, NY | Landscape Designer
- Downtown Amsterdam Form-Based Code | Amsterdam, NY | Project Manager
- Downtown Revitalization Initiative | Auburn, NY | Assistant Project Manager
- Downtown Revitalization Initiative Implementation Projects | Rome, NY | Landscape Designer

*prior to joining Bergmann

Resume

Education

B.S. Survey Technology
University of Maine, 2020

A.A.S., Civil Engineering, Land
Survey Option, Gloucester
County College, 2011

B.A. Theater Arts, Drew
University, 2000

Professional Registrations

Society of American Military
Engineers, Philadelphia Post
(Elective Governance Director
2020-2023)

New Jersey Society of
Professional Land Surveyors
(Director at Large 2022-2024)

New Jersey Licensed Site
Remediation Professional
Association

Professional Certifications

Licensed Land Surveyor
Connecticut, License # 70438,
Issued February 2016

Professional Land Surveyor
New Jersey, License # 43428,
Issued April 2021

Registered Land Surveyor
New York, License # 051164-01,
Issued February 2022

Professional Land Surveyor
Pennsylvania, License #
SU075641, Issued August 2020

Professional Land Surveyor
Delaware, License # 802, Issued
November 2013

Professional Surveyor, West
Virginia, License # 2262, Issued
December 2012

Certified Survey Technician
Level IV – NCEES, ID # 0207-
2768, Issued November 2010

Robert W. Telschow, Jr., PLS, CST

Geographic Discipline Leader | Survey/Geospatial
Services

Experience

Mr. Telschow has been responsible for the supervision of field crews and CADD technicians for over fifteen years. His surveying experience ranges from boundary/property line analysis, commercial and residential development, wetlands, tidelands, riparian, hydrographic surveys, highway surveys, road and stream cross-sections, topography, GPS (both static and RTK), and remediation projects. He has extensive experience with the preparation of proposals, field crew scheduling, planning and reduction of GPS data, mapping, and legal description preparation. State Plane and Geographic Coordinate computations, preparation and mapping of engineering surveys, topographic survey surface creation and analysis, legal research (deed research and protraction, filed maps, archive records, etc.), volume calculations, billing and client contact are also areas of expertise.

Mr. Telschow's working experience includes deed research, protraction, title review, creating points for stake out (point translation and transformation), and daily maintenance of ongoing projects. He has managed and drafted various award-winning surveys and construction plans.

Representative Projects

NJDOT OMR, Sunflower Island, 2020

City of Brigantine Beach, Atlantic County, NJ

Survey Project Manager included UAV Photogrammetric Drone imagery pre and post dredging for volume calculations of material placed on sunflower island and beach placement. A Primary Control Report was prepared for this project including three-point swing ties for traverse and control points. Local NGS monuments were utilized to ensure that the project was performed in NJSPCS NAD83 (2011) and NAVD 88. GNSS / GPS, total station instruments, and a digital level were used in a combination of conventional surveying techniques throughout the course of the project and to establish the control network and aerial targets.

Union County, NJ, East Hazelwood Avenue Bridge Replacement, 2019

City of Rahway, Union County, NJ

Project Manager, preliminary and final design services to develop plans specifications and estimates for the installation of scour countermeasures. Included with this project are field survey, hydrologic and hydraulic analysis, scour analysis, scour countermeasures design, utility and right-of-way investigation, right-of-way and tidelands parcel map preparation, permit application preparation, development of plans, specifications and estimates, along with construction engineering support services.



Resume

USACE New England District New York Ordnance Works: Monitoring Well Survey/GIS Database, 2021 Onondaga County, NY

Project Manager for survey field work, office reduction and creation of a spreadsheet report required to document the location of perform sixty-four (64) newly installed temporary piezometers. Additional site features were included in the report as reference points for the new piezometers. Horizontal control was based upon NY Central State Plane Coordinate System, NAD 1983 (2011 adj.) and the vertical control was based on NAVD of 1988 for the report. Approximate Fee: \$9K

Baltimore District U.S. Army Garrison Aberdeen Proving Ground, Aberdeen Erosion Study, 2019-2020 Harford County, MD

Project Manager for survey field work, office reduction and drafting required to perform a ground based topographic survey for the project areas designated to study for areas of erosion. The topography was compiled to comply with National Map Accuracy Standards for 1:600 scale mapping with a contour interval of 1'. Horizontal control was based upon MD State Plane Coordinate System, NAD 1983 and the vertical control was based on NAVD of 1988. Visible planimetric features were located and platted in a three-dimensional digital format. Approximate Fee: \$20K

NJDOT OMR, Fisherman's Cove Conservation Area, 2021, Manasquan, Monmouth County, NJ

Survey Project Manager, included UAV Photogrammetric and LiDAR Drone data collection of existing conditions prior to dredging for a base map to compare to post dredging surface for future volume calculations. GNSS / GPS and total station instruments were used in a combination of conventional surveying techniques throughout the course of the project and to establish the control network and aerial targets.

Pennsylvania Department of Transportation, SR 0414 (059) Roadway Reconstruction, 2016 District 3-0, Borough of Liberty, Tioga County, PA

Project Manager, Preliminary and final design associated with the roadway reconstruction of a 0.75-mile section of SR 414 in Liberty Borough. In addition to the roadway reconstruction, substandard drainage features will be upgraded, and existing deteriorated roadside walls and sidewalks will be replaced. Traffic will be maintained through the use of a one-way detour. Scope of work items include roadway design, right-of-way plans, traffic control plans, utility coordination, E&S plans, wetland studies, hazardous waste studies, waterway permitting, drainage and stormwater management design, public involvement, and project management.

Black & Veatch, Mt. Pleasant Interceptor—Environmental Survey and Stakeout Services, 2018-2021 Community of Mount Pleasant, New Castle County, DE

Professional Land Surveyor. We provided boundary resolution, cross-sections, property line stakeout, establishment of the rights-of-way for roadways near the project location, and platted lot lines and easements. Final deliverables included an updated base map, derived from plans, maps, deeds, prior surveys, and other record documents, and adjusted coordinates for primary project control points and horizontal and vertical benchmark referenced for further construction activities. Returned for a separate client to perform stakeout and as-builts for the sewer line.

Resume

Salem County Farmland Preservation, Borough of Elmer, Salem County, NJ

Project Manager. Provided a SADC survey for the project site located between Jefferson Road and NJ State Highway Route 40. The property is approximately 35 acres in size. Produced a deed mosaic of the subject property and adjoining, established project control, based on NJSPCS NAD83 (2011), using a GPS Virtual Reference System (VRS); field reconnaissance to locate existing monuments and boundary analysis. The setting of property corners was not required on this property. A Plan of Survey, in accordance with NJDEP Green Acres Standards (SADC), depicting the subject parcels, a metes and bounds deed description and Surveyor's Certification Form were also prepared.

New Jersey Department of Agriculture, Harris Property, Township of Quinton, Salem County, NJ

Survey Project Manager. Provided a SADC survey for the project site located on New Jersey State Highway Route 49. The property is approximately 121 acres in size. Completed extensive deed research, produced a deed mosaic of the subject property and adjoining, established project control, based on NJSPCS NAD83 (2011), using a GPS Virtual Reference System (VRS); field reconnaissance to locate existing monuments, boundary analysis and setting new concrete monuments and/or iron pins at missing property corners. This project included two exception areas: one non-severable containing 3.0 acres and one severable containing 0.6 acres. The severable exception was an old cemetery dating back to the early 1800's. A Plan of Survey, in accordance with NJDEP Green Acres Standards (SADC), depicting the subject parcels, a metes and bounds deed description and Surveyor's Certification Form were also prepared.

New Jersey Department of Agriculture, State Agricultural Development Committee, Multiple Municipalities, NJ.

Project Manager for various preservation sites throughout NJ including but not limited to the following: Manno Farm (2020), Cruzan Farm (2019), Feeley Farm (2019), Garoppo Farm (2019), Koval Dare Farm (2019), Ecker Estates (2019), & Agrinova Farm (2018). Each survey required a deed mosaic, field reconnaissance, boundary analysis, and preparation of a survey, metes and bounds descriptions, and Surveyor's Certification Form.

Air National Guard Stations, Varies by Task, Delaware, New York, West Virginia

Professional Land Surveyor in responsible charge of field work, office reduction and drafting required to perform a ground based topographic survey for the project areas designated. The topography was compiled to comply with National Map Accuracy Standards for 1:600 scale mapping with a contour interval of 1'. Horizontal control was based upon the respective State Plane Coordinate System, NAD 1983 and the vertical control was based on NAVD of 1988. Visible planimetric features were located and platted in a three-dimensional digital format. This project also included the designation of underground utilities along with the location and mapping of the same. Approximate Fee: \$35K

Dupont FS&RE, Dupont Tralee Park, City of Newark, New Castle County, DE

Professional Land Surveyor Responsible for overseeing field work, drafting, setting property corners, and preparation of an ALTA/NSPS Land Title Survey for the 7+/- Acre site. GNSS / GPS and total station instruments were used in a combination of conventional surveying techniques throughout the course of the project. The survey was prepared in accordance with the 2016 American Land Title Association / National Society of Professional Surveyor minimum standards of care.

Section 5

Cost Proposal

Task 1: Public Outreach / Stakeholder Meeting

Project Kick-off Meeting & Communication	Fee	\$	3,500.00
Public Workshops	Fee	\$	3,500.00
Fee for Task 1:		\$	7,000.00

Task 2: Planning Tasks

Study Area Map	Fee	\$	15,000.00
Topographic Survey	Fee	\$	5,000.00
Existing Parking Conditions	Fee:	\$	7,000.00
Analysis of Traffic & Circulation	Fee:	\$	5,500.00
Conceptual Plans	Fee:	\$	12,500.00
Meetings (See Above)	Fee:	\$	-----
Final Phase 1 Planning Document	Fee:	\$	6,000.00
Fee for Task 2:	Fee:	\$	51,000.00

Total	Fee:	\$	58,000.00
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Additional Services

Meetings and services not specifically included in the proposal are specifically excluded. If an item not listed herein, or not mentioned within this agreement, is deemed necessary, work may be performed in accordance with the prevailing Colliers Engineering & Design Rate Schedule upon written authorization of the client. An addendum to this agreement may be provided upon request, outlining the scope of Additional Services and associated professional fees regarding the extra services.

At the end of Phase 2 and with all of the input received, the CED Project Team will develop recommendations for improvements that may result in the creation of Construction Drawing and Bid Documents.

Village of Lakeville, Town of Salisbury, CT Rates are effective January 1, 2022 through December 31, 2022

Billing Titles	Hourly Rates
Project Manager	170.00
Senior Project Specialist	165.00
Project Specialist	155.00
Technical Professional	145.00
Technical Specialist	135.00
Specialist	125.00
Senior Data Technician	115.00
Senior Technical Assistant	105.00
Technical Assistant	95.00
Data Technician	85.00
Survey Crew – 1 Man w/Robotic Equipment	175.00
Additional Survey Crew Member	45.00
SUE Crew (designating) – 1 Man	125.00
Additional (designating) Member	45.00
SUE Crew (locating) – 2 Man	185.00
Additional (locating) Member	45.00
Expert Witness	355.00
Sr. LSRP	245.00
LSRP	220.00

Section 6

Insurance and Licensing

ACORDTM**CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY)

2/28/2022

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 have **ADDITIONAL INSURED** provisions or 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 any rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Marsh & McLennan Agency LLC 18000 Horizon Way Mount Laurel, NJ 08054	CONTACT NAME: PHONE (A/C, No, Ext): FAX (A/C, No): E-MAIL ADDRESS: somersetclsupport@mma-ne.com														
INSURED Colliers Engineering & Design Inc dba Maser Consulting* 331 Newman Springs Rd, Suite 203 Red Bank, NJ 07701	<table border="1"> <thead> <tr> <th data-bbox="816 426 1433 451">INSURER(S) AFFORDING COVERAGE</th> <th data-bbox="1433 426 1568 451">NAIC #</th> </tr> </thead> <tbody> <tr> <td data-bbox="816 451 1433 478">INSURER A : National Union Fire Ins Co PittsburghPA</td> <td data-bbox="1433 451 1568 478">19445</td> </tr> <tr> <td data-bbox="816 478 1433 506">INSURER B : Travelers Property Casualty Co of Amer</td> <td data-bbox="1433 478 1568 506">25674</td> </tr> <tr> <td data-bbox="816 506 1433 533">INSURER C : New Hampshire Insurance Company</td> <td data-bbox="1433 506 1568 533">23841</td> </tr> <tr> <td data-bbox="816 533 1433 560">INSURER D : Navigators Insurance Company</td> <td data-bbox="1433 533 1568 560">42307</td> </tr> <tr> <td data-bbox="816 560 1433 588">INSURER E :</td> <td data-bbox="1433 560 1568 588"></td> </tr> <tr> <td data-bbox="816 588 1433 615">INSURER F :</td> <td data-bbox="1433 588 1568 615"></td> </tr> </tbody> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A : National Union Fire Ins Co PittsburghPA	19445	INSURER B : Travelers Property Casualty Co of Amer	25674	INSURER C : New Hampshire Insurance Company	23841	INSURER D : Navigators Insurance Company	42307	INSURER E :		INSURER F :	
INSURER(S) AFFORDING COVERAGE	NAIC #														
INSURER A : National Union Fire Ins Co PittsburghPA	19445														
INSURER B : Travelers Property Casualty Co of Amer	25674														
INSURER C : New Hampshire Insurance Company	23841														
INSURER D : Navigators Insurance Company	42307														
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	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			GL9925559	03/01/2022	03/01/2023	EACH OCCURRENCE \$2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$1,000,000 MED EXP (Any one person) \$25,000 PERSONAL & ADV INJURY \$2,000,000 GENERAL AGGREGATE \$4,000,000 PRODUCTS - COMP/OP AGG \$4,000,000 \$
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS ONLY			CA4773685	03/01/2022	03/01/2023	COMBINED SINGLE LIMIT (Ea accident) \$2,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> EXCESS LIAB <input checked="" type="checkbox"/> RETENTION \$0			CUP1T66744422NF	03/01/2022	03/01/2023	EACH OCCURRENCE \$10,000,000 AGGREGATE \$10,000,000 \$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? <input checked="" type="checkbox"/> Y / <input checked="" type="checkbox"/> N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	WC025893715	03/01/2022	03/01/2023	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000
D	Excess Liability			NY22MXEZ07LHXIV	03/01/2022	03/01/2023	\$15,000,000

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

Evidence of Insurance

***NAMED INSURED INCLUDE:** Colliers Engineering & Design Inc. dba Bolton Perez & Associates Inc.; Bolton Perez & Associates Inc.; Network Engineering Services Inc.; Colliers Engineering & Design CT,P.C.; Colliers Engineering & Design Inc.; Colliers International Holdings USA Inc.; Colliers International Group Inc.; Colliers International USA, LLC; Maser Consulting Inc.; Maser Consulting P.A.; Maser Consulting Connecticut (See Attached Descriptions)

CERTIFICATE HOLDER**CANCELLATION**

Colliers Engineering & Design Inc. dba Maser Consulting 331 Newman Springs Rd, Suite 203 Red Bank, NJ 07701	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 
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DESCRIPTIONS (Continued from Page 1)

PC; Colliers Engineering & Design/Maser Consulting Inc.; Triangle Surveying & Mapping Inc.; Maser Land Services LLC; Colliers Project Leaders USA NE, LLC; Colliers Engineering & Design Inc dba Colliers Project Leaders; Gorton & Partners LLC ; TerraSense Lab CED, Inc.; Northern Survey Consulting LLC dba Northern Survey Engineering LLC; Bergmann Associates, Architects, Engineers, Landscape Architects & Surveyors, D.P.C (also referred to as Bergmann, DPC); Bergmann Architectural Associates, Inc.; Bergmann Engineering Associates, Inc.; KFW Management LLC dba KFW Engineers & Surveying; KFW Surveying LLC



COLLIER-01

CJOHNSON

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

2/14/2022

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 have ADDITIONAL INSURED provisions or 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 Ames & Gough 859 Willard Street Suite 320 Quincy, MA 02169	CONTACT NAME: PHONE (A/C, No, Ext): (617) 328-6555		FAX (A/C, No): (617) 328-6888
	E-MAIL ADDRESS: boston@amesgough.com		
INSURER(S) AFFORDING COVERAGE			NAIC #
INSURER A : Berkley Design Professional Underwriters			32603
INSURED Colliers Engineering & Design, Inc. dba Maser Consulting* 331 Newman Springs Road, Suite 203 Red Bank, NJ 07701	INSURER B :		
	INSURER C :		
	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 INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS ONLY						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y / N If yes, describe under DESCRIPTION OF OPERATIONS below		N / A				PER STATUTE <input type="checkbox"/> OTH-ER <input type="checkbox"/> E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A	Professional Liab.			AEC905283605	2/25/2022	2/25/2023	Per Claim Limit 1,000,000
A				AEC905283605	2/25/2022	2/25/2023	Aggregate Limit 1,000,000

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

All Coverages are in accordance with policy terms and conditions.

*NAMED INSUREDS INCLUDE: Colliers Engineering & Design Inc. dba Bolton Perez & Associates Inc., Bolton Perez & Associates, Inc.; Colliers Engineering & Design CT, P.C.; Colliers Engineering & Design Inc.; Colliers International Holdings USA Inc.; Colliers International Group Inc.; Colliers International USA, LLC; Maser Consulting Inc; Maser Consulting P.A.; Maser Consulting Connecticut PC; Triangle Surveying & Mapping Inc.; Maser Land Services LLC., Gorton & Partners, LLC; Colliers Engineering & Design/Maser Consulting Inc.

Evidence of Insurance

CERTIFICATE HOLDER

CANCELLATION

Evidence of Insurance	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 <i>Jared Maxwell</i>

STATE OF CONNECTICUT ♦ DEPARTMENT OF CONSUMER PROTECTION

Be it known that

COLLIERS ENGINEERING & DESIGN CT PC

331 NEW SPRINGS RD SUITE 203
RED BANK, NJ 07701

has been certified by the Department of Consumer Protection as a registered

JOINT PRACTICE

Architecture: No Landscape Architecture: Yes Land Surveying: Yes Professional Engineering: Yes

Registration #: JPC.0000131

Effective Date: 05/01/2022

Expiration Date: 04/30/2023

verify online at www.elicense.ct.gov

Michelle Seagull, Commissioner



Colliers Engineering & Design is a trusted provider of multi-discipline engineering, design and consulting services providing customized solutions for public and private clients through a network of offices nationwide.

For a full listing of our office locations, please visit colliersengineering.com

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Geotechnical/Environmental • Telecommunications • Utilities/Energy • Project Management