

MATRIX **NEW** WORLD

Engineering Progress



TECHNICAL QUOTE

IDA DESIGN AND ENGINEERING SERVICES

SUBMITTED TO

State of New Jersey
Department of Community Affairs
Division for Disaster Recovery and Mitigation, 6th Floor
101 South Broad Street
Trenton, NJ 08625
Attention: Laurence Johnson, State Contract Manager

SUBMITTED BY

**Matrix New World Engineering, Land Surveying
and Landscape Architecture, PC**
26 Columbia Turnpike, 2nd Floor
Florham Park, NJ 07932
P: 973.240.1800 F: 973.240.1818

SUBMITTED DATE

December 8, 2023



December 8, 2023

Laurence Johnson, State Contract Manager
State of New Jersey
Department of Community Affairs
Division for Disaster Recovery and Mitigation, 6th Floor
101 South Broad Street
Trenton, NJ 08625

**Re: REQUEST FOR QUOTES FOR IDA DESIGN AND ENGINEERING SERVICES
MATRIX NO. P23-1261**

Dear Mr. Johnson:

Matrix New World Engineering, Land Surveying and Landscape Architecture, P.C. (Matrix) is pleased to submit this quote to the New Jersey Department of Community Affairs (NJDCA) in response to the above-referenced RFQ. Matrix is one of the largest engineering firms in the state, providing civil, environmental, geotechnical, marine, and structural engineering services; landscape architecture; and survey consulting expertise. Our firm has grown progressively in terms of revenue, client base, and project diversity since its inception and has developed a strong reputation for delivering high quality services and work products within budget and on schedule. Matrix has an extensive history of working successfully with multiple municipalities and counties providing similar services.

Matrix personnel have a thorough understanding of the various engineering and consulting services typically required of disaster recovery projects, including structural evaluation and design, geotechnical investigations, cost estimating, landscape architecture, and hazardous materials abatement. We are confident that after a review of our proposal, NJDCA will select Matrix because of our ability to provide:

- The services of a *full-service multi-discipline engineering* firm with a comprehensive array of engineers, scientists, land-use experts, surveyors, asbestos and lead licensed personnel and grant writers.
- Leaders in the field of climate change resiliency, working with government agencies and private property owners to *mitigate future flooding losses* utilizing our comprehensive engineering, ecology, survey, and construction administration services.

Matrix is proud to propose a team that can provide all the necessary services under one umbrella. Our management approach allows us to provide our services in very economical fashion, and the team we have assembled will be able to accelerate project delivery while lowering costs.

We thank you for the opportunity to submit this proposal. Please feel free to contact me directly with any questions or comments regarding our experience at (973) 845-1957 or our Project Manager Michael Soltys at (973) 585-9064 or via email at msoltys@mnwe.com.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jayne Warne".

Jayne Warne, PE
President

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SECTION 1

PROJECT UNDERSTANDING & APPROACH

Matrix New World Engineering, Land Surveying and Landscape Architecture, PC (Matrix) is pleased to present the following proposal to the Department of Community Affairs (DCA) for professional engineering services for the above-referenced project.

Matrix's team will be led by Michael Soltys, PE (Director of Engineering and Project Director) with key team members being Nicholas DeCotiis, PE (Senior Structural/Civil Engineer), Vikki Hon, PE (Senior Geotechnical Engineer), Timothy Pace, PE (Structural Engineer), Frank Barlowski, PLS (Director of Surveying), Sean Savage, PE (Director of Land Development), Craig Test Boring (geotechnical drilling company), and TerraSense (geotechnical laboratory). An organization chart and resumes are provided within.

Of the services requested, Matrix is fully capable of providing all of them with the exception of Architecture, which may be pertinent in "Residential Building Design Services." While Matrix is fully capable of engaging a teaming partner to serve as the architect and can do so, Matrix believes it is in the best interest of the DCA for Matrix to collaborate when necessary with an architecture firm that is approved under this same Contract where combined services would be required. Matrix will coordinate with the DCA on the appropriate teaming partner as this should offer the DCA the best in terms of cost-effectiveness and production.

Matrix's headquarters are in Florham Park, NJ, and we have a sizeable office in Eatontown, NJ as well. Matrix anticipates that we will be performing all our work out of these two offices. Our employees are from all over the state, and we have easy access to all the impacted counties listed within the RFP.

As you are aware, Matrix conducted the initial structural and geotechnical investigations for the Fairfield project, as well as developed the elevation certificate for each of the homes. Many of the team members involved in that previous project will be heavily involved in this project as well. We believe that Matrix exhibits a great rapport with members of the DCA involved with the initial project, and we are very excited for the opportunity to potentially work with these individuals again.

To summarize Matrix's experience, we are a full-service engineering firm that has a unique skillset, particularly in our personnel's expertise in structural design services and resiliency projects. Our blended expertise allows us to seamlessly complete a project of this magnitude as we have done for many public and private clients throughout New Jersey and the rest of the tri-state area. Below please find a list of projects to the anticipated scope:

- NJ DCA Mitigation Assistance Program – Fairfield Structural/Geotechnical Assessments
- NJ DCA 2 Heald Road Elevation Assessment
- Reconstruction, Rehabilitation, Elevation & Mitigation (RREM) Program in response to Superstorm Sandy
- US Merchant Marine Academy Crowninshield & Cressy Pier Design
- Belmar Beachfront Buildings at 5th & 10th Avenues
- NJ DPMC Rebuild by Design Hudson River Flood Wall Investigation and Design
- USDOT Maritime Administration Puerto Rico Port Condition Assessments
- Valley Court Secaucus Floodwall Geotechnical Investigations and Design

Please note that this list is not exhaustive in any way and additional projects or project descriptions can be provided as needed. We have attached project descriptions herein that include reference contact information.

PROJECT AND CONTRACT MANAGEMENT

Matrix has provided similar services to the DCA previously and we are committed to providing the same level of responsiveness and dedication to the potential individual task orders from this contract. We feel we have demonstrated the technical proficiency to deliver high quality investigations and documentation in a timely manner and will continue to do so. We will dedicate all necessary resources to the project or projects while providing consistent quality control and oversight to ensure we provide a consistent and excellent product to the State.

From the overall contract to the individual task orders, our Project Director will work closely with the State Contracting Officer to ensure a quick and seamless execution of the contracts. For the individual projects, we would host a kickoff meeting for each one to confirm all contract and project expectations with the DCA and any other stakeholders. This meeting would be used to set the initial vision of the project; however, consistent communication throughout the process on project status, schedule, budget, and any additional information, will help steer the project as it progresses. Standing calls or meetings will be coordinated with the State Project Director and other key team members as needed. We can hold these meetings virtually or in person at the discretion of the DCA. Should multiple projects be conducted concurrently, Matrix has a substantial team to support this effort, pull in individuals as necessary to adhere to project and schedule requirements, and maintain quality control.

MOBILIZATION PLAN

Upon formal or informal notice of award, Matrix would immediately begin planning and dedicating resources to the project. If any subcontractors are needed for the scope to be provided, we would certainly get the project on their radar for smoother start-up. Matrix would intend to start this while at the same time scheduling the kickoff meeting with the DCA as discussed above. Understanding the purpose of the Contract setup is to mobilize quicker, Matrix is committed to providing unmatched responsiveness. We plan to commence communication immediately to establish the kickoff meeting with the DCA well within the 5-day expected timeframe, where it is understood that items such as contract intent, scope of work, mobilization plan, communication procedures, and reporting forms will all be discussed.

Matrix will provide a mobilization plan for the project that clearly delineates the items requested in the RFQ. As we have done on previous projects with the DCA, we will dedicate the resources we need to for successful completion of the scope on time and on budget. Our mobilization plan will show a timetable demonstrating our staffing reallocation plan, our plan for deployment of management and key personnel, our plan for the recruitment of staff required if necessary, and a plan to purchase equipment or supplies as necessary.

SCOPE OF WORK

Matrix understands that the scope of anticipated projects can be categorized into three main project types and that the projects may consist of any one or more of the below project types:

- Storm Damage Repair and Mitigation
- Building Elevation
- Building Replacement / New Construction

We are committed to providing all design work related to repair, mitigation, elevation, and new construction in conformance with the DRM Program standards and all applicable state and federal requirements.

INVESTIGATION PHASE

Matrix will perform a thorough investigation and analysis of the conditions at each property to define the scope of construction work and the feasibility of the work necessary at the site to repair/mitigate, elevate, or replace the structure. Matrix would request that each homeowner provides any documentation they may have on the home, such as existing surveys, architectural or structural plans, etc., to aid in the understanding of the existing conditions.

The scope of the investigation at each site will be tailored to the specific needs at each site and may include, but not be limited to, site and topography surveys, geotechnical and structural evaluations, field measurements of the existing structures, zoning analyses, and other data necessary to properly document existing conditions prior to providing design solutions and construction documentation.

Matrix anticipates that each homeowner will provide a Right of Entry form to allow access to the property, and Matrix will coordinate any intrusive investigations or site visits with the homeowner to allow them time to move or protect any personal items from damage prior to the commencement of the investigation. Matrix will be very receptive to each homeowner's schedule and will provide all necessary contact information to the homeowner as needed to ensure proper and quick communication.

Any subsurface investigation should be invasive enough to document the subsurface conditions at the footings, as well as identify the soil bearing capacity, compaction, and displacement of soils at the foundation. This includes but is not limited to subsurface investigations, test pits, or other necessary excavation to examine the footing and foundation wall in the vicinity of the foundation.

Ideally, Matrix will be able to coordinate successive investigations at multiple homeowners, and we will attempt to streamline this as much as possible to keep the project running seamlessly and to minimize the schedule as much as possible. Matrix understands that if homes need to be completed per differing schedules, we will do our best to accommodate the DCA and the individual homeowners.

Matrix intends for all structural evaluations and surveys to be completed via non-destructive methodology; however, any geotechnical evaluation will require test pits and borings which are by nature intrusive. Matrix will manage an excavator and geotechnical driller (with an ATV track rig) to complete this work.

Geotechnical investigations would likely consist of multiple test pits to reveal the foundation and provide qualitative data for analysis of fill placed on site. Matrix does not intend to dig deeper than the bottom of foundation to avoid undermining the existing foundations. In areas where a basement is present, the test pits may not be able to reach the foundation and assumptions for the existing foundation will be made in design to be verified during construction.

Geotechnical investigations would likely also include geotechnical borings for quantitative measures of existing soil conditions. The depths will vary depending on project location due to varying soil stratigraphy. It is anticipated that as part of the program, the site will be restored to the satisfaction of the DCA and the homeowner upon completion of the investigation. Soil samples will be submitted for laboratory testing to assist in the development of a geotechnical report complete with foundation recommendations. The exact program and scope will be clearly identified prior to commencement of any individual task order.

In addition to a typical topographic and/or boundary survey, Matrix can also provide an up-to-date Elevation Certificate representing the latest flood plain maps, building characteristics, and lowest floor elevation if needed.

Lastly, a zoning analysis can be completed at any site to verify existing conditions and compliance with zoning requirements, as well as the potential impact of design options on zoning parameters such as setback requirements and potential needs for variance.

DESIGN PHASE

Matrix engineers will conduct a site visit as mentioned above to collect property-specific information, including existing conditions and field measurements of the existing house and property. Matrix will attempt to confirm load paths and dimensions using non-destructive evaluations and measurements.

Matrix will develop a cohesive design solution that incorporates the existing conditions and the proposed project goals with the program requirements. Matrix will document (with drawings and written reports as necessary) the proposed solutions in context with the proposed project feasibility and existing conditions. It will include, as appropriate:

- Floor plans
- Exterior building elevations
- Interior elevations and/or building sections
- Site plans including topographic, utility and zoning information
- Material selection lists and samples
- Budgetary cost analysis

The design of repair and mitigation projects will document the proposed relocations and rerouting of existing building and mechanical elements. The design of any building additions/replacements, new construction, or other alterations to the existing building footprint will include impact to local zoning code compliance, and spell out any required zoning variances.

As discussed earlier, Matrix will dedicate the appropriate staff (civil and structural engineers in particular) to each project as necessary to ensure we meet the project requirements and schedule. We anticipate regular communication with the DCA and homeowner(s) throughout the design process to meet the needs of the project while adhering to overall project goals. Matrix will be prepared to modify the design to suit project conditions, owner input, and programmatic directives to achieve an approved design solution prior to proceeding to the Construction Document phase.

CONSTRUCTION DOCUMENT PHASE

Upon acceptance of the design solutions provided in the Design Phase, Matrix will advance to the Construction Document phase, which will include the progression of the design into construction documents for contractor bid and building permit submission. This will include advancing the plans, elevations, and sections as necessary, as well as development of details and specifications for the proper pricing of the project by contractors and demonstration of code compliance for the issuance of building permits. Matrix will also update the budgetary cost estimate in this phase.

Matrix will submit the Construction Documents to the Program Manager for review and will meet with the Program Manager to review with them. Matrix will incorporate any comments from the Program Manager and key stakeholders and provide final signed and sealed Construction Documents to be submitted to the municipal code office for plan review and acceptance. Matrix will make any adjustments to the Construction Documents as required by the code office to secure construction permits.

Project Cost Estimates

Budgetary cost estimates will be developed for each residence based on the final design package. The estimate(s) are anticipated to include all of the necessary requirements and any others that are applicable for each of the three project subtypes as outlined in the RFP. Matrix will maintain consistent communication as necessary to ensure project designs align with budget estimates and will work with the DCA to make adjustments where possible to meet program and budget restraints.

CONSTRUCTION ADMINISTRATION SERVICES

Matrix understands that the Construction Administration Phase will be limited to the review of contractor submitted change/work orders as requested by the Program. It is understood that construction change orders will be considered for work that could not be adequately identified during the design phase but that becomes apparent during the construction phase of the project, such as unseen structural defects, rotted sill plates, damaged or deteriorated plumbing and other work that once discovered, must be addressed for safety reasons and to achieve a Certificate of Occupancy.

Matrix will review all change orders submitted by the contractor and evaluate them to determine the reason for the change order, if it is needed and why, and determine if the proposed cost is appropriate. Matrix will submit the results of our review to the Program. If the Program determines that additional scope should be added to the project during construction, Matrix will update the drawings for submission to the construction official as required per the additional services section of the contract.

ADDITIONAL SERVICESRecord As-Built Drawings

Matrix may be required to create as-built record drawings of the completed project upon construction completion. The contractor will provide a marked up set of the permit drawings to Matrix indicating changes made during construction, and Matrix will update the permit drawings and submit signed and sealed copies to the permit office as required by the construction official.

Design Changes During Construction

Matrix will update the permit drawings during construction in response to requests by the building code official for updated plans resulting from changes during the construction. If the construction official makes the request for updated plans as a condition of the continuation of construction, Matrix will provide signed and sealed revisions, clarifications, or updated drawings to satisfy the construction official's request.

Professional Services for Zoning / Planning Board Representation

Matrix has many civil engineers with zoning and planning board representation experience and can certainly provide these services to prepare zoning application drawings for variance requests. Matrix will provide any additional services necessary as part of this scope, which may include completion of the application (including addressing of all technical review items), provision of notifications and postings for public meetings, and appearance as an expert witness before the board(s).

SEE ATTACHED EXHIBIT PRICING WORKSHEET

SECTION 2

MATRIX NEW WORLD ENGINEERING

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LOUISIANA ARIZONA

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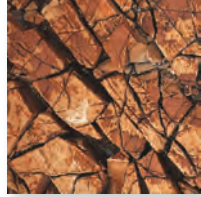
Services



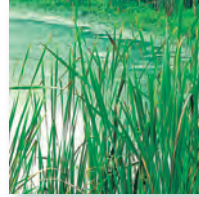
FEDERAL PROGRAMS
& CONTRACTS



ENVIRONMENTAL
REMEDATION



GEOTECHNICAL
ENGINEERING



ECOLOGY
NATURAL RESOURCES



SITE/CIVIL
ENGINEERING



LAND SURVEYING
& HD LASER SCANNING



RAIL & TRANSIT
INFRASTRUCTURE



REMEDATION
PROGRAM



MARINE & WATERFRONT
ENGINEERING



DISASTER
RESPONSE



AIR QUALITY SERVICES
MONITORING & SUPPORT



BIM & 3D MODELING
SOLUTIONS



NYC ENVIRONMENTAL
REVIEW (CEQR)



INDUSTRIAL
HYGIENE



PLANNING
FOR LAND DEVELOPMENT



LANDSCAPE
ARCHITECTURE



LSRP
CONSULTING



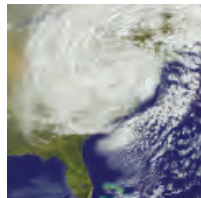
GIS - GEOGRAPHICAL
INFORMATION SYSTEMS



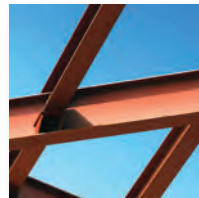
OFFSHORE WIND
DEVELOPMENT SERVICES



COASTAL RESILIENCY
ENGINEERING



FLOOD HAZARD
GRANT PROGRAM



STRUCTURAL
ENGINEERING



LEAD & ASBESTOS
REMEDATION



OYSTER
SURVEYS



PATHOGEN
REMEDATION SERVICES



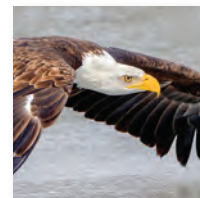
ENVIRONMENTAL
HEALTH & SAFETY (EHS)



AFFORDABLE HOUSING
DESIGN



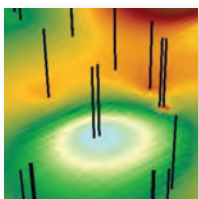
HABITAT
MITIGATION



NEPA & STATE
EQUIVALENT ASSESSMENTS



WATER SYSTEM
ENGINEERING



3D COMPUTER
MODELING



WELL DESIGN
CONSTRUCTION & TESTING



ENVIRONMENTAL SITE
ASSESSMENT (ESA)



WELL DEVELOPMENT
& TESTING



DUE DILIGENCE &
REGULATORY PERMITTING



REGULATORY COMPLIANCE
MONITORING



MATRIX**NEW**WORLD

Engineering Progress

A COMPANY OF ENGINEERS

Solving national & global challenges in water, energy, climate change, transportation & infrastructure requires engineering & scientific ingenuity. That's Matrix.

- Three decade history of success and continued growth in the United States
- 220+ professionals – engineering, scientists and construction professionals with world class expertise
- Headquartered in New York City (NYC) tri-state area with operations in the U.S. southwest and U.S. Gulf Coast
- Track record on some of the most significant projects in U.S., relating to infrastructure and disaster response
- Leader in climate change resiliency projects in New York (NY) and New Jersey (NJ)
- Leader in disaster response services including multi-disciplinary damage assessments

Matrix New World Engineering is a company of engineering and science experts who focus on some of the nation's most pressing long-term challenges, including climate change, water supply, disaster response and urban revitalization. Applying our expertise to areas where these challenges are becoming particularly acute, Matrix intends to further focus our offerings and expertise on these and other emerging National Strategic Issues, where solving environmental challenges through careful planning and engineering is becoming an indispensable measure of success.

Matrix is rapidly expanding with offices in New York, New Jersey, Connecticut, Arizona, Louisiana, and project experience throughout the U.S. and the Caribbean.

Awards & Commendations

- "ENR TOP 200 Environmental Firms for 2021"
- "Commerce: The Business of NJ (CIANJ) Honors – Cleaning up Contaminated Sites" (2021)
- "Commerce: The Business of NJ (CIANJ) Honors – Ecological Site Restoration" (2021); Commerce & Industry Association of New Jersey
- "Salute to Women in Construction Award" Jayne Warne, PE, President (2021)
- "Silver Stevie Award, Female Entrepreneur of the Year – Business Services" Jayne Warne, PE, President (2018)
- "Gold Stevie Award, Women of the Year in Technology" Laurie LaPat-Polasko, V.P. (2018)
- "Outstanding Women Owned Business for 2012" by Anchin, Block & Anchin LLP
- Ernst and Young "Entrepreneur of the Year" Finalist Dennis Petrocelli, PG (2011)
- "Business of the Year" for 2010, for the 51-100 Employees Category
- One of "Top 50 Women-Owned Businesses" in diversitybusiness.com (2005)
- "One of New Jersey's Finest Companies," NJBIZ (2004)

Contact

Matrix New World Engineering

26 Columbia Turnpike, 2nd Floor
Florham Park, NJ 07932

Jayne Warne, PE, President

jwarne@mnwe.com,

or

Dennis Petrocelli, PG, Senior Vice President

dpetrocelli@mnwe.com

973.240.1800

800.747.6287 (MATRIX)

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SITE/CIVIL ENGINEERING SERVICES

Matrix is multi-disciplinary.

Matrix has a diversified staff of engineers, planners, and landscape architects who are experts at integrating new construction within existing communities. Our understanding of state and local permitting processes expedites the regulatory submissions and minimizes the public review process. The design team focuses on creating site plans that are sensitive to the community and environment while achieving land improvements that are functional and aesthetic.

Site development in this age of numerous and varied regulatory requirements requires professionals who are skilled in grading, drainage, utilities, roadway, earthwork, and site lighting design, as well as environmental impact and land use permitting. Our experience with civil and site design of a wide variety of facilities ranging from schools, parks, medical centers, commercial development, petroleum storage, and distribution facilities has exposed us to a myriad of regulatory requirements on the local, state, and federal levels.

Matrix also provides civil engineering services geared to the development of major transportation, infrastructure and facility projects for public sector clients including airports, ports, highway, and rail facilities.

Land development continues to become more and more challenging. Many state and municipal governing bodies have adopted the principals of, and are encouraging, "smart growth." This concept encourages the redevelopment of urban and suburban sites taking advantage of existing infrastructure and intelligent planning incorporating solutions.

Services provided

- Site/Concept Planning
- Coordination with Regulatory Agencies
- Construction Administration/Management
- Rough & Finish Grading Plans
- Stormwater Management
- Roadway Design
- Site Feasibility & Cost Studies
- Parking and Traffic Analysis
- Environmental Studies
- Retention/Detention Basins
- Land Surveying & Mapping
- Site Lighting
- Soil Erosion & Sediment Control Plans
- Soils Investigations & Surveys
- Infrastructure Planning & Design
- Cut/Fill/Haul Calculations
- Landscape Architecture
- Wetland/Wastewater System
- Geographic Information System (GIS)
- Environmental Permit Acquisitions
- Local Zoning/Planning Board Expert Testimony
- HECRAS Modeling

Contact

Matrix New World Engineering

973.240.1800

800.747.6287 (MATRIX)

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GEOTECHNICAL ENGINEERING SERVICES

Matrix is a collaborator.

Matrix provides a full complement of geotechnical services including soil, rock, and groundwater investigations, geotechnical engineering design and construction support. We have provided a broad spectrum of geotechnical investigations for public agencies, private corporations, architects, engineering firms, and commercial and residential developers.

Our geotechnical engineering services range from initial site evaluation to development of complete site-specific engineering recommendations for the selection, design and construction of effective and functional foundation and pavement systems. Matrix has provided consultation on excavation, shoring, and permeability analysis and dewatering for environmental and construction projects.

Matrix also provides forensic engineering services to aid design and construction engineers with mitigation services in the event of deterioration or catastrophic occurrences.

Our work is characterized by a spirit of partnership and a commitment to understanding the client's needs and objectives, and working collaboratively toward their goals.

Services provided

- Geotechnical Management & Oversight for Soil, Rock & Groundwater Investigations
- Design & Analysis of Shallow & Deep Foundation Systems
- Design & Analysis of Retaining Structures
- Bedrock & Soil Slope Stability
- Design of Soil & Rock Anchors
- Settlement Analyses
- In-situ testing & Analysis for Permeability, Percolation, & Infiltration
- Geotechnical Laboratory Testing Programs
- Consultation on Excavation, Shoring, Underpinning & Dewatering Systems
- Consultation of soil Improvement Methods
- Pavement Design for Roadways, Airport Runways & Taxiways
- Consultation on Tunneling (Bored & Cut-and-cover Techniques)
- Planning/oversight of Deep Foundation Installation
- Geophysical Studies
- Site selection & Feasibility Studies
- Investigation of Karst Terrain, Sinkholes & Voids in Bedrock
- Forensic Engineering
- Hydrogeologic Investigations
- Monitoring & Instrumentation programs

Contact

Matrix New World Engineering

973.240.1800

800.747.6287 (MATRIX)

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STRUCTURAL ENGINEERING SERVICES

Matrix is dynamic.

Matrix offers a full complement of diverse structural engineering services ranging from structural evaluation to rehabilitation to complete design utilizing concrete, steel, timber, and masonry materials. Our clients encompass a broad spectrum that includes public agencies, private corporations, architects, engineering firms, and commercial and residential developers.

We provide consultation, design, plan and specification development, and structural inspection on a vast array of projects including foundations, waterfront structures, utility structures, amusement park rides, ferry terminals, warehouses, public buildings, bridges, site structural features, and many more. We collaborate with design teams consisting of architects, MEP and geotechnical engineers on the projects to develop economical, code-compliant solutions. Our professionals are experienced with applicable State, IBC, ASCE, ACI, AISC, and AASHTO design codes and guidelines, with particular expertise in accommodating flood resiliency design. Matrix also provides forensic engineering services to aid design and construction engineers with mitigation services in the event of deterioration or catastrophic occurrences.

Our work is characterized by a spirit of partnership and a commitment to understanding the client's needs and objectives, and working collaboratively toward their goals.

Services provided

- Site Structures & Retaining Walls
- Waterfront Structures – Bulkheads, Docks, Piers, Platforms, Boat Ramps, Boardwalks
- Shoreline Stabilization Inspection & Damage Assessments
- Foundation Designs
- Utility Structures – Wastewater, Water & Drainage Structures & Pump Stations
- Bridges & Culverts
- Dam Structural Evaluations, Design, & Repair
- Structural Evaluations, Rehabilitation, Repair & Restoration
- Forensic Engineering
- Code Compliance Evaluations
- Amusement Park Structures & Foundations

Contact

Matrix New World Engineering

973.240.1800

800.747.6287 (MATRIX)

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CONSTRUCTION SUPPORT SERVICES

Matrix supports.

Matrix offers construction support and inspection services for a wide range of projects including: infrastructure, building, remediation and demolition for both public agencies and private sector clients. We've provided construction support and inspection services on major projects for transportation agencies, multi-state agencies, municipalities, and Fortune 500 companies.

Matrix is uniquely positioned to offer our clients both construction support and environmental consulting expertise, usually with the same inspection personnel.

Our staff is knowledgeable of current Federal, State, and local regulations. This wide range of experience furnishes Matrix with a unique skill set, and delivers value to our clients and partners, which is beneficial on redevelopment and large scale, high-profile construction projects.

Services provided

- Office Engineering
- Design Review
- Cost Estimating
- Change Order Evaluation & Processing
- QA/QC Services
- Hazardous Waste Management
- Lead & Asbestos Abatement Oversight
- Documentation & Reporting
- Soil Erosion & Sediment Control Plans
- Dewatering & Treatment Design
- Bid Support
- Payment Requisition Review
- Project Closeout
- Punch List
- Construction Monitoring & Inspection
- Air Monitoring
- Permitting
- Noise & Vibration Monitoring
- Piles & Foundations
- Remedial Construction
- Utilities

Contact

Matrix New World Engineering

973.240.1800

800.747.6287 (MATRIX)

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ECOLOGY NATURAL RESOURCES SERVICES

Matrix is the future.

Matrix is focused on solving problems related to natural resources and the environment. We offer a wide array of services, from baseline ecological studies and ecosystem restoration designs to Federal, State and local natural resources permitting. We have delivered ecological consultation and design services for many important wetland restoration projects of regional significance.

We possess extensive experience with many of the individual state regulatory programs and have performed ecological risk assessments under a variety of State and Federal programs throughout the U.S. Matrix's staff of ecologists has the proven technical capabilities to strategically identify the issues and couple them with a remedy that is technically feasible and defensible, cost effective, and can be easily implemented. We have earned a strong reputation for negotiating reasonable solutions to complex issues with Federal and State agencies.

Services provided

- Wetland Enhancement/Restoration/Creation Design
- Natural Resource Banking/Restoration Up Front
- Ecological Risk Assessment
- Natural Resource Valuation & Asset Management
- Natural Resource Damage Assessment (NRDA)
- Stream Assessment and Restoration
- Environmental Assessments (EA), Environmental Impact Statements (EIS), & Categorical Exclusions
- Federal & State Natural Resources Permitting
- Wetland Delineation & Functional Assessment
- Threatened & Endangered Species Surveys
- Wildlife Surveys & Habitat Evaluations
- GIS/GPS Data Collection, Inventory, & Mapping
- Cost Estimating, Bid Administration, Construction Management & Construction Oversight

Contact

Matrix New World Engineering

973.240.1800

800.747.6287 (MATRIX)

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ENVIRONMENTAL SERVICES

Matrix is qualified.

Matrix provides a unique multi-disciplinary approach to projects that involve the physical and natural environment. Long recognized for technical excellence, we bring more than two decades of successful, progressive experience to projects involving the identification of potential sources of contamination and associated development constraints. We offer turnkey services, from the investigation of existing conditions, remedial investigations, and remediation design, to the operation of treatment systems, and oversight of construction.

In addition to remediation issues, Matrix's experienced professionals are qualified to address a wide variety of environmental health and safety issues from environmental permitting and compliance, hazardous waste/hazardous materials management, asbestos and lead, survey and design, environmental management systems and National Environmental Policy Act (NEPA) documentation. We provide services across a wide range of assignments, from a simple property transaction, to a large scale transportation and infrastructure design and construction project.

Matrix provides full-service permitting associated with development of properties and infrastructure projects to allow for the seamless progression of projects. We also provide our clients with regulatory compliance services to allow them to conduct their daily operations. Matrix understands that it is essential to identify environmental constraints ahead of final design and construction, to minimize the impact to the contaminated areas, and to understand the nature and extent of the contamination prior to construction. In that way, the contamination can be more effectively managed, minimizing the impacts to cost and schedule.



Services provided

- Phase I and II Environmental Assessments
- Preliminary Assessments & Site Investigations
- Remedial Investigations (RIs) & Feasibility Studies (FS)
- Remedial Alternative Analysis & Remediation Design
- Asbestos, Lead Paint Survey, Abatement Design & Project Monitoring
- Corridor Analysis/Screening
- National Environmental Policy Act (NEPA) Compliance
- Hazardous/Contaminated Materials Management
- Construction Environmental Control Plans (CECP)
- Underground/Aboveground Tank Management & Removal
- Construction Plans, Specifications & Cost Estimates
- Spill Prevention, Control & Counter-measure (SPCC), Discharge Prevention Containment & Countermeasure (DPCC) Plans
- Regulatory Compliance & Permitting
- Environmental Compliance Audits & Environmental Management Systems/ISO 14001

Contact

Matrix New World Engineering

973.240.1800

800.747.6287 (MATRIX)

MNWE.com



MATRIX**NEW**WORLD

Engineering Progress

LEAD & ASBESTOS REMEDIATION SERVICES

It's not pretty, but it's work Matrix does very well.

Matrix brings a unique approach to hazardous materials consulting services by providing inspection and design professionals that are not only experienced with hazardous materials, but also with the building systems and components with which they are associated. We work as an integral member of the design team.

Long recognized for technical excellence, Matrix brings more than two decades of successful, progressive experience to projects involving the identification and abatement of hazardous materials. We offer turnkey services, from the initial survey, through abatement design, bid document preparation, bid support, construction administration, project monitoring and final reporting.

Matrix's hazardous materials professionals are qualified to address a wide variety of substances frequently encountered during planned construction and demolition activities. Matrix's staff also has the credentials and experience to meet regulatory and contractual requirements for any project.

We offer services across a wide range of assignments, from a simple property assessment, to large scale transportation and infrastructure design and construction projects. Matrix understands that it is essential to recognize issues that have the potential to impact the project early on in the design phase to ensure that project costs and schedules can be controlled.

Services provided

- Hazardous Materials Investigations & Surveys
- Asbestos Containing Materials (ACM)
- Lead-Based Paint (LBP)
- PCB Caulks and Ballast
- Microbial Contaminants (Mold)
- Pigeon Guano
- Mercury Containing Equipment
- Other Hazardous Materials
- LBP Risk Assessment Services
- Building Assessments
- Abatement & Remedial Design Services
- Construction Document Preparation & Bid Support
- Construction Administration & Inspection Services
- Project Monitoring

Contact

Matrix New World Engineering

973.240.1800

800.747.6287 (MATRIX)

MNWE.com





MATRIX**NEW**WORLD

Engineering Progress

LANDSCAPE ARCHITECTURE

Matrix is grounded.

We provide full-service landscape architectural services ranging from preliminary site assessment and investigation to conceptual layout and design to development of detailed site drawings and construction specifications. Landscape architecture combines the design skills of architecture with the scientific principles of engineering and the broad development knowledge of urban planning to design aesthetic and practical relationships with the land.

The work of landscape architects surrounds us in design and planning of public squares, parkways, college campuses, hospital gardens, community parks, waterfront walkways, recreation areas, and corporate courtyards, as well as through the preservation of national parks and monuments. By providing well-managed design and development plans, we offer a broad range of services and expertise that will add long-term value to your project. Matrix's certified landscape architects and designers provide full-service landscape architectural design services including conceptual planning, design and renderings for residential and commercial projects, detailed landscaping design, streetscape design, and creative grading design as well as wetland restoration and mitigation design.

Matrix excels in park design for municipalities and counties. Projects include tennis and handball court reconstruction and entrance improvements, park restoration projects, athletic field design and lighting design, entrance plaza for public sporting venues, and park rehabilitation and gateway improvements. Our landscape architects create designs that are environmentally sensitive and aesthetically pleasing, while maintaining respect of the historical and cultural significance of the area.

Services provided

- Parks Planning & Renovation Services
- Greenways & Trails
- Athletic Field Design
- Green Infrastructure
- Site Renderings & Perspectives
- Ecological Restoration Design
- Landscape & Lighting Design
- Sustainability & LEED Design
- Wetland/Habitat Mitigation Design
- Conceptual & Master Planning
- Streetscape Design & Layout
- Graphic Rendering
- Parks & Recreation Master Planning
- Green Roof & Green Wall Design

Contact

Matrix New World Engineering

973.240.1800

800.747.6287 (MATRIX)

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MATRIX**NEW**WORLD

Engineering Progress

LAND SURVEYING & MAPPING SERVICES

Matrix means precision.

Matrix has established and continues to expand upon our strong land surveying reputation. We are dedicated to being leaders in the profession with team members holding leadership positions in state and national surveying organizations. Our surveyors are committed to lifelong learning so that we can apply creative and cutting edge solutions to our clients and partners projects.

Our highly experienced staff has prepared surveys for public and private sector clients including roadway and railway transportation projects, land development, right of way location and acquisition, construction, and natural resource boundaries, including riparian, tidelands and wetlands locations. Matrix also has special expertise in deformation monitoring surveys and in high accuracy geodetic control networks. Our clients include transportation agencies, national and international corporations, developers, law firms, environmental firms and A/E firms.

Accurate survey and topographic mapping is the foundation of all successful design, and construction projects. The Matrix surveying team utilizes extensive quality assurance and control measures for internal review to ensure our clients and team partners are receiving clear and precise data and mapping. The Matrix team is ready to conquer the challenges of your project. Our team is committed to excellence and is able to respond to any challenge in real time utilizing the latest and most state of the art technologies including 1-second robotic total stations, real time kinematic GPS, and high definition laser scanners.

Matrix is committed to safety with team members holding OSHA HAZWOPER certification, 10-hour OSHA construction certification, Transportation Worker Identification Credential (TWIC) cards, rail safety training, and first aid. The Matrix survey team is ready to assist our partners in completing safe and successful projects.



Services provided

- Boundary, Topographic & Utility Surveys
- ALTA/ACSM Land Title Surveys
- Right-of-Way Determination & Acquisition
- Hydrographic/Bathymetric Surveys
- Construction Stakeout/Layout
- Engineering & Architectural Surveys
- GPS & Geodetic Surveys
- Environmental Surveys
- HD Laser Scanning
- FEMA Flood Elevation Surveys & Certificates
- Green Acres Program & Farmland Preservation Surveys
- As-built Record Surveys
- Wetlands Location & Stream Surveys
- Roadway Cross Sections
- Tidelands & Riparian Surveys
- Legal Descriptions
- Expert Testimony
- Hazardous Waste Site Surveys

Contact

Matrix New World Engineering

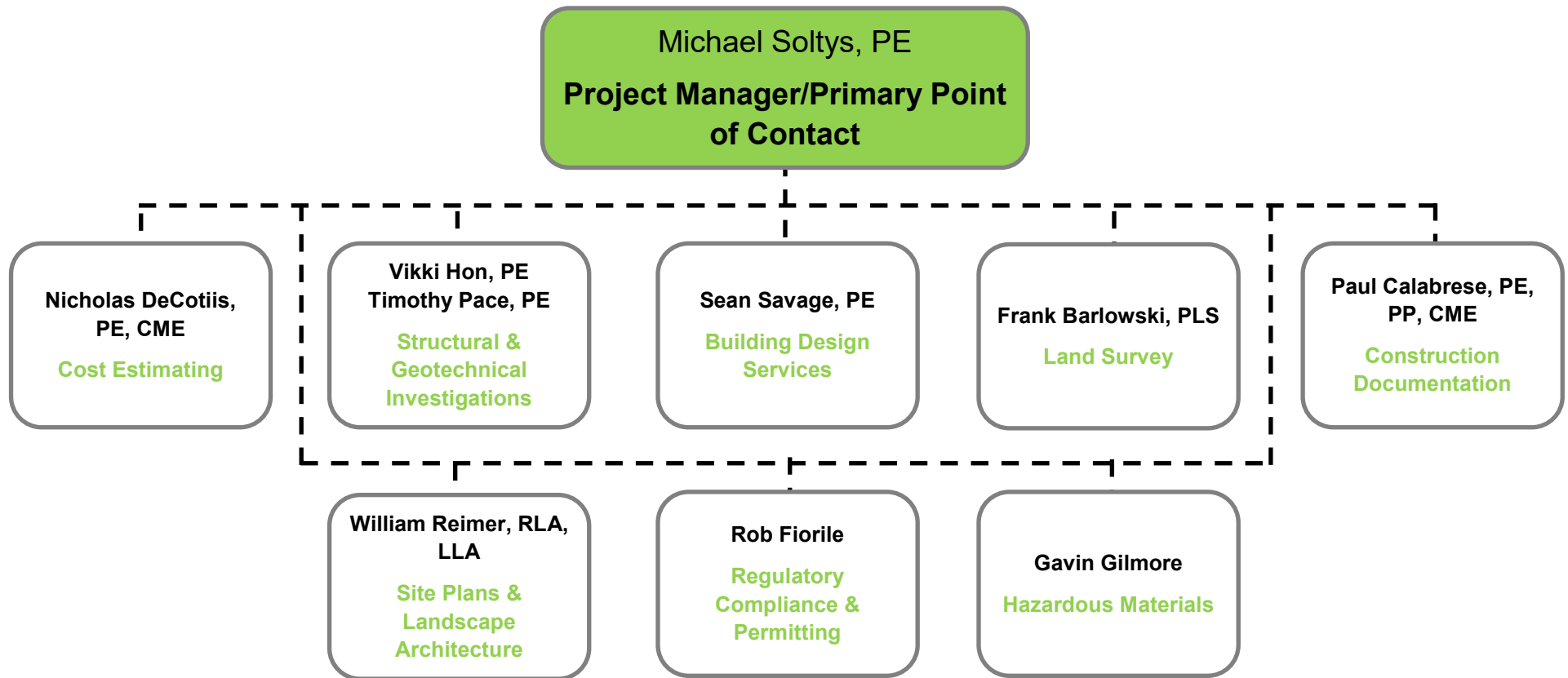
973.240.1800

800.747.6287 (MATRIX)

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SECTION 3

Team Organization



MICHAEL SOLTYS, PE

Director of Structural & Geotechnical Engineering

Professional Qualifications

Michael Soltys is a structural, geotechnical, and civil engineer. With more than 15 years of experience, he is well-versed in steel, concrete, masonry, and timber design; plans and specifications preparation; engineering report development; structural evaluations; and overall project management for a wide variety of public and private projects. His diverse structural consulting experience includes the design of waterfront structures, piers, marinas, bulkheads, roller coasters, water slides, buildings, bridges/culverts, retaining walls, grandstands, treatment plants, dams and more. Mr. Soltys' background includes complete management of geotechnical investigations; driller and laboratory procurement and coordination; development of geotechnical investigation reports; evaluation of geotechnical data for bearing capacity, settlement, global stability, sliding, overturning, and liquefaction potential; and design development and coordination of shallow and deep foundations, slab and pavement subgrade, ground improvements, and retaining walls, in addition to the analysis of bearing capacity, settlement, global stability, sliding, overturning, and liquefaction potential. His civil engineering background has focused on site plan development, including site layout, drainage, grading, utility and soil erosion plans; front end and technical specification development for public bid projects; and project management of multi-discipline civil engineering projects.

Professional Experience

NJ DCA FEMA Mitigation Assistance Program - Fairfield Geotechnical & Structural Evaluation

Structural and Geotechnical Lead responsible for the evaluation of 20 residences designated as properties that receive Repetitive Losses or Severe Repetitive Losses. The purpose of the assessments was to determine the suitability and viability of the residences' subsurface conditions, overall structural layout, and structural condition to support raising the house to mitigate flood damages.

NJ DCA 2 Heald Road Brigantine Geotechnical & Structural Evaluation

Structural and Geotechnical Lead responsible for the evaluation of damage pertaining to the RREM program elevation of the property in question. Active damages were evaluated using structural non-destructive investigations and geotechnical investigations to assess the validity and precision of the project design plans and construction techniques and materials based on the investigation results.

Beachfront Pavilions, Borough of Belmar, Monmouth County, NJ

Structural Engineer/Project Manager responsible for the design of the two beachfront multi-story pavilions. Responsibilities included management and coordination with all disciplines involved with the project design, including civil, architectural, and mechanical/electrical/plumbing. Also provided structural design for the buildings, one of which is a two-story, steel-framed assembly-use building, and the other a timber-framed lifeguard/Police building that includes a three-story tower. Both buildings are supported on steel pipe piles and are designed to meet FEMA and ASCE flood loads.

NJDPMC / NJDEP Rebuild by Design Hudson River, Hoboken/Jersey City/Weehawken, Hudson County, NJ

Geotechnical Lead responsible for coordinating engineering services to



EDUCATION

M.S. Civil Engineering, Rutgers University, 2010

B.S. Civil Engineering, University of Notre Dame, 2007

PROFESSIONAL REGISTRATIONS

Professional Engineer - New Jersey 2011, New York 2016, Connecticut 2013, Pennsylvania 2014, Utah 2017, North Carolina 2017, South Carolina 2017, Oregon 2017, Georgia 2019, California 2020, Rhode Island, 2023

AFFILIATIONS

New York Building Congress

MICHAEL SOLTYS, PE

Director of Structural & Geotechnical Engineering

investigate subsurface conditions for the high-profile design and construction of flood resiliency measures along the Hudson River. The project involved a substantial subsurface investigation program of nearly 60 borings, extensive rock coring, in situ permeability testing, environmental sampling, soil drumming and disposal, pump and slug tests, and CPT drilling. Responsibilities included coordination with city officials and police and transit employees for maintenance and protection of traffic. At the conclusion of the investigation, Matrix provided a full geotechnical report complete with boring logs, laboratory results, and recommendations for design and construction.

USDOT Maritime Administration Puerto Rico Port Condition Assessments, Puerto Rico

Structural Engineer primarily responsible for property condition assessments and marine structure assessments at numerous ports throughout Puerto Rico in response to destruction caused by Hurricanes Irma and Maria. Responsibilities included visual inspections and evaluations at each of the ports and development of an in-depth condition assessment of the buildings, marine structures, site features, and utilities located within the property limits of each port.

DPMC Liberty State Park Ferry Terminal Reconstruction, City of Jersey City, Hudson County, NJ

Project Manager providing engineering design services for the reconstruction of the Liberty State Park ferry terminal and the dredging of the area to provide boat access into and adjacent to the slips and docks. Liberty State Park is one of the highest-visited state parks in New Jersey and is home to the Central Railroad New Jersey (CRRNJ) Terminal and Ferry Terminal, both of which are listed on the State and National Registers of Historic Places. The ferry terminal, consisting of ferry house platforms, fender rack piers, and timber access bridges, was utilized for transferring millions of immigrants that came through Ellis Island. The ferry terminal sustained significant damage from Superstorm Sandy in 2012 and reconstruction was a high priority. The scope of work also included 3D Laser Scanning and an existing conditions inspection survey, including underwater diving, of the dilapidated piers. Using remote sensing, the dolphins and pier data was collected from the safety of the shore without the need for additional marine equipment. Services also included geotechnical soils analysis, full waterfront and structural engineering services, and construction administration.

DPMC Forked River State Marina, Lacey Township, Ocean County, NJ

Structural Design Engineer for new bulkhead, docks, utilities, boat ramp, dredging, and site and drainage improvements for state marina. Design and contract documents met NJDPMC standards.

DPMC Liberty State Park Shoreline Stabilization, City of Jersey City, Hudson County, NJ

Structural Engineer for design and construction administration for shoreline stabilization project along the south side of Liberty State Park. Scope included investigation of failing relieving platform, historic fill testing, and waterfront permitting challenges due to platform and replacement option of utilizing a stone revetment shoreline, as well as wave analysis for shoreline design. Improvements also included new waterfront walkway, rails, lights, and landscaping in conformance with Hudson Waterfront Walkway Standards. Project was coordinated with NJDEP Coastal Engineering and NJDPMC.

Valley Court Flood Wall, Secaucus, NJ

Geotechnical Engineer responsible for a subsurface investigation for the design of a flood wall to protect the residences of Valley Court and Gail Place in Secaucus. Due to extremely soft grounds and tidal influences of the creek, the field investigation required substantial matting and a specific rig to complete the project. The final product included a geotechnical report complete with boring logs and design recommendations for structural support of the flood wall and permeability considerations for a cutoff wall.

U.S. Merchant Marine Academy, Crowninshield and Cressy Pier Reconstruction, Kings Point, NY

Structural Lead responsible for the design of a replacement timber pier, aluminum gangway, timber floating docks, composite wave screen, concrete retaining wall, and site amenities and utilities. Responsibilities include structural design and calculations, drafting, site design, and overall project coordination and management. The original piers have been damaged from past storm events and are in dire need of repair/replacement. The proposed pier is designed for heavy duty loads up to 400 psf loading or 20T mobile crane loading. The facility, once constructed, is to be used primarily by students and employees of the Academy for educational purposes.

NICHOLAS DECOTIIS, PE, CME

Senior Civil Engineer

Professional Qualifications

Nicholas DeCotiis has over 18 years of experience providing project management, design, construction inspection, permitting, and project funding services. His broad experience encompasses a wide array of civil and structural engineering disciplines including:

- Inspection of dams and dam rehabilitations
- Waterfront structures including bulkheads, piers, docks, fendering systems, ferry landings, ports
- Living shorelines and eco restoration projects
- Public parks, skate parks, and spray parks
- Site structures including retaining walls, decks, footings, and foundations
- Drainage systems, outfalls, and green infrastructure
- FEMA 404, 406 and 428 funding
- Fueling systems and fuel docks
- Transmission pipelines, including levee crossings
- NYC permitting including SCARA, SCP, SWPPP & Stormwater Permitting, DOB and SBS Waterfront Permitting
- Amusement ride foundations and sitework
- Sanitary sewer mains, pump stations and septic systems
- Lighting and irrigation systems
- Hydrologic and hydraulic calculations
- Coastal engineering calculations including wave environment analysis
- Site design for public buildings and schools
- Water infrastructure including water mains, cement lining of mains, wells, RPZs.

Professional Experience

MARAD Puerto Rico Critical Port Assessments - Mayaguez and Dept N&ER Ports and Piers, Puerto Rico

Assistant Project Manager and Engineer of Record for the structural assessments for ports and piers within Puerto Rico in response to the devastation resulting from Hurricane Maria making landfall as a Category 5 hurricane. Mr. DeCotiis prepared findings reports for structural assessments of critical port facilities.

USMMA - Crowninshield & Cressy Piers

Senior Engineer responsible for the design of a new building, replacement pier, aluminum gangway, timber floating docks, composite wave screen, concrete retaining wall, and site amenities and utilities of the Crowninshield Pier and Cressy Pier at the U.S. Merchant Marine Academy (USMMA), adhering to requirements from the New York Historic Preservation Office (SHPO). The project included the removal and disposal of the existing Crowninshield Pier, a replacement pier including a wave screen, and floating dock connections and utilities. The proposed pier is designed for heavy duty loads up to 400 psf loading or 20T mobile crane loading. Responsibilities included structural design and calculations, drafting, and site design.

5th and 10th Avenue Pavilions, Belmar Borough, Monmouth County, NJ

Engineer of record for the construction of two beachfront pavilions. The pavilions include space for beachfront amenities such as emergency services, ticket sales, public restrooms, public meeting space, and



EDUCATION

M.E. Coastal Structures, Stevens Institute of Technology, 2010

B.E. Civil Engineering, Stevens Institute of Technology, 2005

PROFESSIONAL REGISTRATIONS

Professional Engineer – New Jersey (2009), New York (2018), Puerto Rico (2018), Texas (2021)

CERTIFICATIONS AND TRAINING

Certified Municipal Engineer (CME) – New Jersey (2012)

Transportation Worker Identification Credential (TWIC)

NICHOLAS DECOTIIS, PE, CME **Senior Civil Engineer**

concessions. The buildings replace former structures in those locations that were destroyed in Superstorm Sandy.

Perrine and 4th Avenue Bulkhead Reconstruction, Borough of Manasquan, NJ

Project Manager providing marine, structural, and civil engineering design and construction administration for the replacement of the bulkhead along Perrine Boulevard and 4th Avenue. The project included the alteration of an existing fixed dock, upgrading the amenities to existing slips at the bulkheads to provide shore power and water, and coordinating with the Environmental Infrastructure Trust (EIT), which funded the project.

Lake Como Stormwater Outfall Improvements, Belmar, NJ

Project Manager for the design and permitting of a new stormwater outfall into the Atlantic Ocean. The project included the structural, hydrologic, and hydraulic design of the outfall.

Student Success Center, Township of Mount Laurel, Burlington County, NJ

Civil Engineer and project manager for the construction of a state-of-the-art Student Center on the Rowan College at Burlington County Mount Laurel Campus. The building includes a campus bookstore, cafeteria, library, emergency medical services, and registrar office. Responsibilities included the design, permitting, and construction administration of utilities, parking lot, lighting, and landscaping. Also served as project manager for the structural and geotechnical design of the project.

Nuview Academy Annex, Piscataway, NJ

Civil Engineer for the construction of a proposed addition to the annex building. The project includes the construction of a building addition, new access roadway, drainage, and utilities.

East Amwell Elementary School Addition, Ringoes, NJ

Civil Engineer for the construction of a proposed addition to the East Amwell Elementary School. The project included the construction of an addition, relocation/reconfiguration of the existing septic system, and a new drainage system with a rain garden.

North Brunswick Middle School, North Brunswick, NJ

Civil Engineer for the construction of a new 170,000 square foot middle school. The project was constructed in two phases. The site was prepared for construction during the first phase of the project, which included the regrading of 60,000 cubic yards of soil. Phase II includes the construction of the new school building, utilities, drainage, access roadways, parking lots, and other site improvements.

City of Peekskill, Fleischmann Pier Reconstruction, Peekskill, NY

Project Manager responsible for the design of a replacement timber pier. Responsibilities include structural design and calculations, drafting, site design, and overall project coordination and management. The proposed pier will be constructed wider than the existing pier and will be programmed for daily cruise tours, while maintaining the tourist attraction and recreational use it has today.

NJDOT Bordentown Training Facility, Sewer and Water Installation, Bordentown, NJ

Project Manager responsible for surveying, civil engineering, and construction management services for the construction of water and sewer services to New Jersey Department of Transportation (NJDOT) modular offices at their Bordentown Training Facility in Bordentown, NJ. Although the modular office space was used year-round as classroom space, the office was not serviced by city water or sewer utilities. Project challenges included designing the utility services to mitigate conflicts with existing utilities, providing repairs to the existing sanitary sewer lift station, and staging construction to minimize impact to the active training facility.

Vopak Terminal Perth Amboy, City of Perth Amboy, Middlesex County, NJ

Design Engineer for the rehabilitation of the former Hess oil receiving terminal. Responsibilities included the design of waterfront elements including terminal platform and catwalk pilings, berthing fender systems, and other structural elements. Work included berthing load and wave loading analysis.

VIKKI HON, PE Project Manager

Professional Qualifications

Vikki Hon is a project manager with more than nine years of civil, environmental, geotechnical, dredging, and construction management experience. Ms. Hon has managed a variety of multi-disciplinary projects across multiple industries. Ms. Hon's work assignments have included geotechnical and environmental investigations, field sampling and testing programs, defining subsurface soil and groundwater conditions, coordinating and managing aboveground and underground storage tank removals, dredge oversight, subcontractor oversight, cost estimation, and preparation of contract drawings and specifications.

Professional Experience

NYCDDC NYPD Tow Pounds, Multiple Locations, NY

Project Manager responsible for overseeing environmental and geotechnical services for twelve NYPD Tow Pounds sites located in the Bronx, Brooklyn, Manhattan, and Queens. Environmental services included limited Environmental Site Assessments at each of the sites. Geotechnical services included a desktop review of neighboring properties to identify regional subsurface conditions. Environmental and geotechnical field investigations are proposed for select sites.

NYCDDC Clove Road Field Operations, Staten Island, NY

Project Manager responsible for overseeing environmental and geotechnical services for a new field operations facility in Staten Island, NY. Responsibilities included review of historical reports and providing technical support for the schematic design, design development, and construction administration phases of the project.

NYSDOT Hunts Point Interstate Access, Bronx, NY

Project Manager responsible for overseeing soil characterization program at the Hunts Point Interstate Access improvement project. Developed and executed the Soil Sampling Plan for proposed excavations to identify off-site disposal options. Oversaw simultaneous environmental permitting effort for proposed construction.

NYCEDC Lower Concourse Park, Bronx, NY

Project Manager responsible for providing environmental and geotechnical services at the proposed Lower Concourse Park in the Bronx, NY. Environmental services included review of the existing Phase I ESA and identifying the subsequent Phase II environmental investigation activities. Managed geotechnical field program for proposed construction of waterfront features and comfort station.

Citywide Ferry Service, Multiple Locations, NY

Project Manager responsible for conducting Phase I assessments and Phase II environmental investigations as part of due diligence environmental consulting services for NYCEDC Citywide Ferry Service implementation at multiple locations in NY.

NYCDEP Pumping Stations, Multiple Locations, NY

Project Manager responsible for environmental and geotechnical engineering services associated with the implementation of flood protection at various pumping stations located in all 5 boroughs of New York City. Responsibilities



EDUCATION

ME, Civil Engineering, Cooper Union, 2013

BS, Civil Engineering, Cooper Union, 2012

PROFESSIONAL REGISTRATIONS

Professional Engineer, New York 2017, Massachusetts 2019

CERTIFICATIONS & TRAINING

Transportation Worker Identification Credential (TWIC)

Secure Worker Access Consortium (SWAC)

OSHA 40-Hour HAZWOPER, 8-Hour Refresher

OSHA 10-Hour Construction

VIKKI HON, PE **Project Manager**

included coordinating environmental services for waste disposal purposes and geotechnical engineering services to investigate subsurface conditions and evaluate their impact on the proposed design and construction.

NYC Parks Flushing Meadows Corona Park, Fields 8 and 9, Queens, NY

Project Manager responsible for geotechnical engineering services associated with the settlement of synthetic turf fields 8 and 9. Responsibilities included coordinating geotechnical field investigation program and limited environmental waste characterization program.

PANYNJ Dredge Oversight Services, Multiple Locations, NY & NJ

Project Manager responsible for overseeing maintenance and deepening dredging operations in multiple NY & NJ locations, including Port Newark, Port Elizabeth, and the Holland Tunnel Piers. Responsibilities included maintain compliance with dredge permits, managing dredge field engineers; review of dredge management and dewatering reports for submission to USACE, NYSDEC, and NJDEP dredge divisions, and providing technical support during dredging.

PANYNJ Newark Bay Confined Disposal Facility (NBCDF), Newark, NJ

The project is the first subaqueous pit constructed for the disposal of contaminated dredged spoils on the East Coast. Engineer responsible for overseeing monitoring operations of the sand cap located above dredged spoils. Reported on monitoring results during operations including turbidity, water quality, confined disposal facility capacity, and recommended on-going and future dredge operations.

Alcoa Howmet Facility, LaPorte, IN

Geotechnical Engineer responsible for the geotechnical subsurface investigation, micropile and load transfer platform design, and construction management activities. Responsibilities included procuring the driller and geotechnical laboratory, oversight of the subsurface field program, development of a complete geotechnical report with boring logs and design recommendations, development of contract drawings and specifications, and oversight of drillers and contractors during foundation installation.

Accurate Box Facility, Paterson, NJ

Project Manager responsible for overseeing environmental, civil, and geotechnical aspects for construction of new warehouse facility. Responsibilities included coordinating the subsurface investigation and soil laboratory testing, preparing the geotechnical report, providing foundation recommendations, and overseeing product recovery efforts via vacuum truck. Completed project was recipient of multiple awards, including the 2018 ACEC-NJ non-transportation award.

PANYNJ Due Diligence & Phase I/II Investigations, Multiple Locations, NY & NJ

Engineer for multiple due diligence assessments and Phase I/II investigations. Conducted site reconnaissance, identified potential sources of petroleum impacts, bulk chemical storage, and ozone depleting substances, and managed drilling activities. Communicated with the client in a time sensitive review to identify potential risks and associated past remediations, current and future permitting status, as well as previous environmental enforcements and/or actions with the subject property.

JFK Building 23 Striping Plan, Queens, NY

Project Manager responsible for developing aircraft parking striping plan for Category V and Category VI aircraft. Submitted striping plan for PANYNJ under Minor Works Agreement. Coordinated with client and PANYNJ on aviation design criteria and maintained compliance with manufacturer, FAA, and PANYNJ requirements.

PANYNJ Community Right to Know Survey, Multiple Locations, NY & NJ

Project Manager responsible for overseeing the field operations to conduct facility surveys of all PANYNJ operated properties in NY and NJ. Activities included developing electronic data collection system, coordination with multiple PANYNJ site managers, verifying inventory of chemicals and other constituents, and assembling regulatory reporting.

TIMOTHY PACE, PC **Structural/Civil Engineer**

Professional Qualifications

Tim Pace has more than eight years of field/design experience in the areas of civil, structural, and geotechnical engineering as well as AutoCAD drafting. Mr. Pace's experience includes soil sampling/logging for multiple projects across New York and New Jersey, foundation and retaining wall design, various industrial/residential piping and utility design, observation well inspection and water permeability testing. He also has extensive experience in the preparation of geotechnical reports, which include subsurface classifications, soil properties (bearing capacity, settlement, sliding, overturning) and foundation recommendations in accordance with the International Building Code and New York City Building Code.

Professional Experience

NJ DCA FEMA Mitigation Assistance Program - Fairfield Geotechnical & Structural Evaluation

Structural and Geotechnical Engineer supporting the evaluation of 20 residences designated as properties that receive Repetitive Losses or Severe Repetitive Losses. The purpose of the assessments was to determine the suitability and viability of the residences' subsurface conditions, overall structural layout, and structural condition to support raising the house to mitigate flood damages.

NJ DCA 2 Heald Road Brigantine Geotechnical & Structural Evaluation

Structural and Geotechnical Engineer supporting the evaluation of damage pertaining to the RREM program elevation of the property in question. Active damages were evaluated using structural non-destructive investigations and geotechnical investigations to assess the validity and precision of the project design plans and construction techniques and materials based on the investigation results.

Weeks Marine, Inc., Whites Basin Bulkhead Installation, Logan Township, NJ

Project Engineer in charge of the geotechnical subsurface investigation to determine pertinent engineering characteristics of the on-site soils for the construction of a new bulkhead at Whites Basin in Logan Township, NJ. Prepared boring logs, classified soil samples, evaluated subsurface conditions, and provided relevant design parameter for the soils encountered on site. This geotechnical information was later utilized during the structural design of the proposed bulkhead – Mr. Pace recommended multiple wall types for the proposed construction using the SPW911 software as a basis for design. Site plans were also developed depicting the various wall alternatives for further analysis by Weeks Marine, Inc.

Maplewood Township, Maplewood DPW Fuel Station, Maplewood, NJ

Project Engineer responsible for the structural review of numerous proposed concrete slabs to hold new fuel pumps, tanks, and a canopy. Responsibilities also included the design, if necessary, of new slabs to safely hold the proposed loads from the new structures.

MARAD Puerto Rico Waterfront Assessments

Field Engineer tasked with structural inspections of various waterfront structures along the coast of Puerto Rico. These inspections were conducted in response to the significant damage caused by hurricanes Irma and Maria



EDUCATION

BS, Civil Engineering, Stevens Institute of Technology, 2013

MS, Civil Engineering – Structural Concentration, Stevens Institute of Technology, 2015

PROFESSIONAL REGISTRATIONS

Professional Engineer - New Jersey
(No. 24GE05641600, 2020)

CERTIFICATIONS & TRAINING

NJT Contractor Safety Training, 2019

HBLR Contractor Safety Training, 2019

Amtrak Contractor Safety Training,
2019

OSHA Construction Safety Program, 10
Hours

OSHA HAZWOPER 40 Hour Training

TIMOTHY PACE, PC **Structural/Civil Engineer**

in late 2017. Marine structures including piers, bulkheads, revetments, fendering and mooring structures. Also included in the project was the structural inspection of waterfront buildings along the coast. These structures were assessed for any significant damage, and recommendations were made regarding rehabilitation or, in some cases, replacement of the existing structures. Resiliency measures were also recommended for the existing structures to better withstand future catastrophic events.

U.S. Merchant Marine Academy, Crowninshield and Cressy Pier Reconstruction, Kings Point, NY

Project Engineer involved in the design of a new concrete pier, composite wave screen, classroom/fitness building, and site amenities and utilities. Responsibilities include structural design, calculations, and civil/structural plan drafting. The original piers have been damaged from past storm events and are in dire need of repair/replacement. The proposed pier is designed for heavy duty loads up to 400 psf loading or 20T mobile crane loading. The facility, once constructed, is to be used primarily by students and employees of the Academy for educational purposes.

Long Island Railroad, Retaining Wall Design along Queens Interlocking, Queens, NY

Project Engineer responsible for design of multiple concrete retaining walls to retain new built-up signal station areas along the LIRR track line. The retaining wall design required the use of Cooper E-80 train loading to determine the most critical loading on the proposed structures, and involved the use of the Enercalc structural analysis program to design the most efficient and practical retaining wall for the project site. Mr. Pace also prepared final design plans, including section views, to ensure the wall could be installed without any adverse effects to the existing electrical structures or the existing tracks at the project site.

Ironstate Development, 100 Monitor Street, Jersey City, NJ

Contracted by to perform exterior foundation and wall inspections of properties immediately adjacent to 100 Monitor Street in Jersey City, NJ. The purpose of this inspection was to observe and record any structural defects to the existing buildings around the project lot prior to commencement of construction. Project involved a detailed report marking significant damages to building foundations, as well as a photo log to visually record any observed damage.

Lightship Engineering, LLC, Retaining Wall Design at GenOn Facility, Tomkins Cove, Stony Point, NY

Project Engineer responsible for design of a sheet pile retaining wall to improve slope stability of an existing retention pond and to protect an existing electrical cable tower at the Genon Facility in Tomkins Cove. The retaining wall design involved the use of the SPW911 and Enercalc structural analysis programs to determine the most efficient and practical retaining wall alternative for the project site. Prepared final design plans, including section views to ensure the wall could be installed without any adverse effects to the existing electrical structures at the project site.

NJ Transit, Meadows Maintenance Complex, Kearny, NJ

Field Engineer responsible for inspection of a soil boring investigation. Included in the project were the creation of soil boring logs, classification of in-situ soils, as well as recommendations for foundation types and bearing capacities for proposed transformer platforms and flood wall at the site.

NJ Transit, County Yard Improvement Program, New Brunswick and North Brunswick, NJ

Field Engineer responsible for inspection of a subsurface investigation. The program consisted of both soil and rock core sampling, installation and inspection of observation wells and permeability testing. Data collected from the in-situ permeability testing was later compiled to calculate hydraulic conductivities of the existing soils at the site. The County Yard Train Storage Yard is to provide overnight storage and light maintenance facilities for electric multi-level (MU) train consists. Five-yard storage tracks, two pedestal tracks within a service and inspection facility, along with a crew quarters and other railroad appurtenances are included in the development of this yard. Modifications to the Jersey Avenue Platform and electrification of Track 5 and improving five miles of the existing Delco lead are also proposed. 140 borings are proposed for this project to depths varying from 20 feet to 45 feet.

Town of Secaucus, Street Reconstruction, Secaucus, NJ

Field Engineer responsible for the inspection of the reconstruction of multiple streets throughout Secaucus. Mr. Pace oversaw the demolition and construction of the sidewalks, curbs, and streets of the various streets under contract. This project also involved coordination with multiple utility companies, as well as town officials, to assure the street redevelopment was completed with minimal disturbance to the public, and that the finished street elements met all code standards.

SEAN SAVAGE, PE, LEED AP

Director of Land Development

Professional Qualifications

Sean Savage serves as a Director of Land Development and has more than 25 years of in-depth experience that includes a wide range of residential and commercial site design/layout, storm/sanitary sewer design, landfill construction management, landfill capping projects, landfill odor studies, sanitary sewer infiltration/inflow studies, a municipal sewage treatment plant expansion pilot study, field inspection, and permitting compliance. In addition, he has been responsible for the completion and submission of various state/municipal permits and applications some of which include CAFRA and Army Corps permitting, Treatment Works Approvals, Water Main Extension permits, Soil Erosion applications, and Pinelands Commission. Mr. Savage has also served as project and client manager on numerous residential and commercial projects varying from small to large located throughout New Jersey.

Professional Experience

Reconstruction, Rehabilitation, Elevation & Mitigation (RREM) Program, NJ

Mr. Savage is responsible for providing project management and design services for multiple RREM contractors. These services include survey, geotechnical, plot plans, and foundation design. To-date Mr. Savage has completed close to 300 individual site locations in multiple municipalities impacted by Superstorm Sandy.

Ridgefield Warehouse Development, Ridgefield, NJ

Mr. Savage provided project management, professional testimony, and engineering design services for this approximately 350,000 SF warehouse development. Responsible for preparation of site plans, stormwater management design and obtaining Township and outside agency approvals including soil erosion, NJDEP flood hazard area permitting, NJDEP water main extension, NJDEP treatment works approval, SUEZ water company and County. Mr. Savage also managed other services including survey and landscape design as well as coordinated with the client's other consultants (Traffic Engineer and Architect) as needed to complete the design documents. In addition, Mr. Savage was responsible for preparation of NJDEP flood hazard area permitting plans.

River Road Redevelopment, Borough of Chatham, NJ

Mr. Savage provided project management and engineering design services for this development consisting of 320 residential units located within a 4-story building. Design services included site grading, stormwater management, water and sanitary sewer connections, and lighting. Project will also include obtaining Borough Planning Board approval, County approval, and NJDEP permits for water main and sanitary sewer extensions. Mr. Savage also coordinated with the client's Architect as needed to complete the design documents.

18 Central Avenue Mixed Use Development, West Orange, NJ

Mr. Savage provided project management, and engineering design services for this multi-family housing development consisting of 94 units and 3,500 sf of retail within a 5-story building. Responsibilities included the preparation of site plans for submission to City and NJDEP, stormwater management design, NJDEP flood hazard area (FHA) permitting and will include obtaining



EDUCATION

M.Ed. School Business Administration,
Rutgers University, 2000

B.S. Civil Engineering, University of
Maryland, 1992

PROFESSIONAL REGISTRATIONS

Professional Engineer – New Jersey
(2003), New York (2015)

LEED AP

PROFESSIONAL AFFILIATIONS

Shore Builders Association of Central
New Jersey (SBACNJ)

New Jersey Builders Association
(NJBA)

AWARDS

New Jersey Alliance for Action 2015
Distinguished Engineering Award for
the Sandy Hook Bay Marina and
Navesink Development Project

SEAN SAVAGE, PE, LEED AP **Director of Land Development**

City Planning Board and outside agency approvals including soil erosion, County, sanitary sewer and water main extension approvals. Also responsible for flood volume displacement calculations required for the NJDEP FHA application. Mr. Savage also coordinated with the client's Architect as needed to complete the design documents.

Wrightstown Mixed Use Development, Wrightstown, NJ

Mr. Savage provided project management, professional testimony, and engineering design services for this development consisting of 440 residential units, 20,000 sf of retail and a hotel. Responsible for preparation of site plans, stormwater management design and obtaining Township and outside agency approvals including soil erosion, NJDEP water main extension, NJDEP treatment works approval, Pinelands and County. Mr. Savage also managed other services including survey and landscape design as well as coordinated with the client's other consultants (Geotechnical services, Traffic Engineer, and Architect) as needed to complete the design documents.

711 Montgomery Street Mixed-Use Development, Jersey City, NJ

Mr. Savage provided project management, professional testimony, and engineering design services for this development consisting of 299 residential units and 5,000 sf of retail located within a 16-story building. Design services included site grading, stormwater management, water and sanitary sewer connections, and lighting. Also responsible for obtaining City Planning Board approval, County approval, Jersey City MUA water connection approval and NJDEP permit for sanitary sewer extension. Mr. Savage also managed other services including survey and landscape design as well as coordinated with the client's other consultants (Contractor and Architect) as needed to complete the design documents. Mr. Savage also provided construction administration support as needed to review shop drawings and address RFI submittals.

55 Jordan Avenue Mixed-Use Development, Jersey City, NJ

Mr. Savage provided project management, and engineering design services for this development consisting of 267 residential units and 4,300 sf of retail located within a 16-story building. Design services included site grading, stormwater management, water and sanitary sewer connections, and lighting. Also responsible for obtaining City Planning Board approval, County approval, Jersey City MUA water connection approval and NJDEP permit for sanitary sewer extension. Mr. Savage also managed other services including survey and landscape design as well as coordinated with the project Architect as needed to complete the design documents.

620 Montgomery Street Mixed-Use Development, Jersey City, NJ

Mr. Savage provided project management, and engineering design services for this development consisting of 350 residential units and first floor retail located within a 16-story building. Design services included site grading, stormwater management, water and sanitary sewer connections, and lighting. In addition, the project will include obtaining City Planning Board approval, County approval, Jersey City MUA water connection approval and NJDEP permit for sanitary sewer extension. Mr. Savage also managed other services including survey and landscape design as well as coordinated with the project Architect as needed to complete the design documents.

Storms Avenue Residential Development, Jersey City, NJ

Mr. Savage provided project management, and engineering design services for this development consisting of 201 residential units located within a 10-story building. Design services included site grading, stormwater management, water and sanitary sewer connections, and lighting. In addition, the project will include obtaining City Planning Board approval, County approval, Jersey City MUA water connection approval and NJDEP permit for sanitary sewer extension. Mr. Savage also managed other services including survey and landscape design as well as coordinated with the project Architect as needed to complete the design documents.

36 Emory Street Residential Development, Jersey City, NJ

Mr. Savage provided project management, and engineering design services for this development consisting of 114 residential units located within a 10-story building. Design services included site grading, stormwater management, water and sanitary sewer connections, and lighting. In addition, the project will include obtaining City Planning Board approval, County approval, Jersey City MUA water connection approval and NJDEP permit for sanitary sewer extension. Mr. Savage also managed other services including survey and landscape design as well as coordinated with the project Architect as needed to complete the design documents.

FRANK BARLOWSKI, PLS **Director of Survey Operations**

Professional Qualifications

Frank Barlowski is the Director of Survey Operations for Matrix in the Eatontown, NJ office. With more than 43 years of experience in a wide variety of land surveying applications including site development, Mr. Barlowski is expert in the planning, mapping, and management of surveying projects for private and public clients. He is also responsible for managing and overseeing large survey and marine engineering projects that include boundary survey resolutions, engineering surveys, calculations, and field stakeout. Mr. Barlowski also oversees scheduling and field crew supervision. His project experience spans boundary, topographic, riparian/tidelands, railroad, ROW, major and minor subdivisions, construction layout, hydrographic/bathymetric, ALTA/NSPS Land Title Surveys, and as-built surveys.

Professional Experience

Rebuild By Design – Hudson River, Hudson County, NJ

Survey Director for a 1.5-mile-long route survey that includes parcel, right-of-way, and utility record as-built surveys needed to assist with the professional engineering, architectural design, and construction for the Department of Housing and Urban Development (HUD) – selected Rebuild by Design Hudson River Project “Resist, Delay, Store, Discharge” located within the municipalities of Hoboken, Jersey City, and Weehawken.

Rebuild by Design - New Meadowlands Project, Bergen County, NJ

Survey Director for individual lot surveys, route right-of-way, topographic, wetlands and utility record as-built surveys, needed to assist with the professional engineering and architectural design to reduce flooding in the Project Area located within the municipalities of Moonachie, Teterboro, South Hackensack, Little Ferry, and Carlstadt.

Oaks at Glenwood Residential Development, Old Bridge, NJ

Survey Director responsible for comprehensive surveying services for the planning and engineering of a 433-acre residential redevelopment.

Jackson Twenty-One, Jackson, NJ

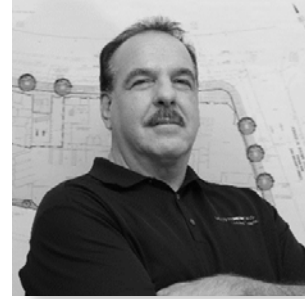
Survey Director for comprehensive survey stakeout services for portion of multi-phase development (±350 acres) that includes forty-four multi-family buildings, recreation center building, maintenance building, and model units building.

Peninsula at Bayonne Harbor, Bayonne, NJ

Survey Director responsible for comprehensive surveying services for the subdivision, redevelopment, and waterfront development of a 450-acre tract.

Reinhard Manor, Woodbridge, NJ

Survey Director for final ALTA/ACSM land title survey and site construction permits for the approximately 2.3-acre site that includes adaptive re-use of two school buildings (originally constructed in 1922 and 1948) and development of one new structure at an underused and poorly maintained school site. The plan includes the development of 55 one-bedroom and 21 two-bedroom LIHTC apartments. Thirty-one of the units fall within the footprint of the existing school; the remaining forty-five units, community room, and the leasing office fall within a new adjoining mid-rise structure and



EDUCATION

Continuing Education Courses, Drexel University, Philadelphia

Ocean County College, Toms River

PROFESSIONAL REGISTRATIONS

Professional Land Surveyor – New Jersey, #24GS03973500, 1996

CERTIFICATIONS AND TRAINING

Transportation Worker Identification Credential (TWIC)

Secure Worker Access Consortium (SWAC)

American Safety & Health Institute (ASHI) – CPR, AED & Basic First Aid

PROFESSIONAL AFFILIATIONS

New Jersey Society of Professional Land Surveyors

FRANK BARLOWSKI, PLS

Director of Survey Operations

48 off-street parking spaces, an abundance of storage and a suite for the social service providers.

Harbor Station South, Bayonne, NJ

Survey Director for boundary survey, topographic survey, and major subdivision for 19.2-acre redevelopment project.

Southeast Affordable Housing, Jackson, NJ

Survey Director for 18.1-acre residential family housing project that included pre- and post-construction ALTA/NSPS land title surveys, construction stakeout, and final record as-built surveys.

Liberty Science Center, Jersey City, NJ

Survey Director for topographic survey of 3.4 acres to assist with additions to the existing Liberty Science Center building.

Columbus Towers, Jersey City, NJ

Survey Director for survey services associated with three multi-story buildings, including foundation location, record utility as-built, and final ALTA/ACSM land title surveys and preparing pre- and post-construction elevation certificates.

Passaic Avenue Redevelopment, Town of Kearny, NJ

Survey Director for boundary and topographic survey and wetlands location survey of ± 11.5 -acre site to be redeveloped in Kearny. Mr. Barlowski provided an updated boundary and topographic survey for a 2.8-acre portion of the site for multi-story residential buildings to contain total of 36 units.

Oyster Creek Nuclear Generating Station, Lacey Township, NJ

Survey Director overseeing the boundary, topographic, and easement survey of 177 parcels of land and providing bathymetric and hydrographic surveys for annual monitoring of intake and discharge canals.

Residences at Symphony Hall, Newark, NJ

Survey Director for ALTA/NSPS boundary and topographic survey and survey construction layout services for four-story building on ± 1.2 -acre vacated Brownfield site.

Dalina Manor Senior Housing, Woodbridge, NJ

Survey Director for ALTA/NSPS boundary and topographic survey and survey construction layout services for development of 57 affordable housing units, community room, and management office, and 57 off-street/on-street parking spaces on ± 1.03 -acre site.

County-Wide Utility Easements, Hudson County, NJ

Survey Director for parcel surveys for the acquisition of multiple utility easements within the municipalities of Bayonne, Jersey City, and North Bergen.

Reconstruction, Rehabilitation, Elevation & Mitigation (RREM) Program, NJ

Survey Director overseeing all survey services for the RREM projects. To date, Matrix completed more than 350 individual site locations in multiple municipalities impacted by Superstorm Sandy. Services include boundary and topographic surveys, foundation location survey, final as-built survey, flood elevation certification, and additional survey services as required.

Bordentown Waterfront Community, Bordentown, NJ

Survey Director for ALTA/ACSM land title survey, easement descriptions, and gateway sign as-built survey services for a 674-unit multi-family housing development, which includes 25,000 sf of retail space.

Schuyler Crossing, Town of Kearny, NJ

Survey Director providing Minor Subdivision, ALTA/ACSM Survey, and comprehensive construction layout services for ± 7.4 -acre project.

PAUL CALABRESE, PE, PP, CPWM

Vice President/Senior Civil Engineer

Professional Qualifications

Paul Calabrese specializes in cost estimating and large-scale projects with waterfront engineering, site engineering, and project management expertise. His responsibilities include site design/calculations, preparation of plans/specifications, project funding applications, construction supervision, and inspection for a wide variety of capital projects. Mr. Calabrese has extensive experience in the sector of site development and design for waterfront facilities and structures, including marinas, shoreline stabilization and ship berths. His experience includes the provision of full engineering responsibilities for water, sewer, roads, drainage, athletic and recreational complexes, shoreline stabilization, dredging, planning/site studies, site improvement projects, permitting compliance, and design/construction management projects. He also has extensive construction and estimating experience and has coordinated and supervised projects providing an array of professional services.

Professional Experience

PANYNJ JFK Terminal One Redevelopment, Queens, NY

Senior Civil Engineer responsible for the design of the drainage, structural, and stormwater management components for the Terminal One Redevelopment project at JFK International Airport. Responsibilities included designing the stormwater management system for the project in accordance with New York State Department of Environmental Conservation (NYSDEC) MS4 requirements. Additional responsibilities included the design of the elevated roadway drainage and bridge scupper system at the proposed terminal departures access drive, arrivals and departures level approach ramps, and the Terminal 4 bypass roadway. In addition to the drainage and stormwater management system design, Mr. DeCotiis was also responsible for the design of large non-standard concrete manholes to withstand large aircraft loading on both land-side and air-side portions of the terminal.

MARAD Puerto Rico Critical Port Assessments

Project Manager responsible for managing and coordinating the preparation of Structural, Biological, and National Environmental Policy Act (NEPA) Environmental Assessments for ports throughout Puerto Rico in response to the devastation resulting from Hurricane Maria, which made landfall as a Category 5 hurricane. Matrix conducted assessments to evaluate potential impacts associated with proposed site restoration and resiliency measures at nationally significant port facilities throughout Puerto Rico. Mr. Calabrese also oversaw and coordinated land and water field inspections completed by more than 40 engineers and scientists and assisted with preparation of findings reports for structural and biological assessments at 30 critical port facilities.

NYCEDC NYC Health + Hospitals/Metropolitan Flood Wall Design, New York, NY

QA/QC Manager responsible for surveying and geotechnical services to the New York City Economic Development Corporation (NYCEDC) flood control improvements for Metropolitan Health & Hospitals project. Matrix completed both topographic and utility surveys at the project site. The geotechnical investigation included 31 borings covering the critical areas of the project site. Matrix also completed a hydrogeological study, evaluating the potential for flood water to harm the existing and proposed structures at the project site.



EDUCATION

MBA, Business Administration, Rutgers Business School, 2002

BS, Civil Engineering, Rutgers College of Engineering, 1998

PROFESSIONAL REGISTRATIONS

Professional Engineer – New Jersey (2004), New York (2015), Louisiana (2015), Mississippi (2016), Texas (2016), Pennsylvania (2020)

Professional Planner – New Jersey (2005)

CERTIFICATIONS & TRAINING

Certified Municipal Engineer (CME) – New Jersey (2005)

Transportation Worker Identification Credential (TWIC)

PAUL CALABRESE, PE, PP, CPWM

Vice President/Senior Civil Engineer

Port Authority of New York & New Jersey, LaGuardia Airport - Flood Control & Resiliency Program, Queens County, NY

Geotechnical Engineer responsible for evaluation of offsite mitigation locations to offset areas at the airport that were expanded for future use.

Welton Street Park, New Brunswick, NJ

Civil Engineer for the Welton Street Park project. The design includes spaces for community gathering, and educational and recreational activities for nearby schools. The park also includes a rain garden and pervious pavements, which will help reduce pressures on the existing stormwater infrastructure.

NYCEDC New York City Financial District and Seaport Coastal Resiliency Master Plan, New York, NY

QA/QC Manager for technical support of master plan development, including evaluation of existing marine structures, bathymetric surveying, regulatory consulting, stormwater management, property acquisition, and utility hardening. Work as part of a multi-disciplined team focused upon developing flood resistance alternatives, with focus upon creation of fast land in lower Manhattan.

NYCEDC Two Bridges Coastal Resiliency Project, New York, NY

QA/QA Manager for technical support of construction drawing development and regulatory approvals. Project includes the construction of multiple flood walls and deployable flip-up barriers. The \$203M project will protect thousands of residents, including many living in affordable housing units while continuing to preserve views and access to the waterfront.

Jenkinsons Seawall, Point Pleasant, NJ

Civil Engineer for design, permitting, procurement and construction of 5,000 foot long steel seawall with rock scour protection. Project includes design and construction of multiple recreational boardwalk amenities (decks, ramps, stairs, railings, etc.), a rock revetment and dune reconstruction. Design includes coastal wave modeling and evaluation of wave runup and overtopping.

NOAA J.J. Howard Sandy Hook Laboratory Seawater Intake, Sandy Hook, NJ

Civil Engineer for design-build construction of a seawater intake system supporting a major marine research laboratory. Design included screen wells, piping, dewatering, pumps and site work.

NJDPMC New Meadowlands Rebuild by Design Coastal Resiliency Project

QA/QC Manager for technical support of design of this Post-Superstorm Sandy resiliency project within the New Jersey Meadowlands. Project elements include flood walls, stormwater management structures and utility resilience. Oversee marine structures evaluation, topographic surveying, bathymetric surveying, property acquisition and regulatory support services.

NJDPMC Hudson Rebuild by Design Coastal Resiliency Project

QA/QC Manager for technical support of design of this Hudson County, NJ Post-Superstorm Sandy resiliency project. Project elements include flood walls, stormwater management improvements, utility resiliency, and flood gates. Oversee marine structures evaluation, topographic surveying, bathymetric surveying, property acquisition, geotechnical and regulatory support services.

Borough of Avon-by-the-Sea Municipal Marina, Avon-by-the-Sea, NJ

Civil Engineer for design and permitting of marina redevelopment, including bulkheads, floating docks, kayak launch, dredging, marina support building and site improvements.

Sylvan Lake Living Shoreline, Avon-by-the-Sea, NJ

QA/QC Manager for Living Shoreline project located on this NJ coastal lake. Work included design, permitting, grant administration, procurement and construction administration. Project elements include shoreline stabilization, stormwater quality improvements, and long-term ecological monitoring.

WILLIAM REIMER, LLA, RLA **Director of Landscape Architecture**

Professional Qualifications

William Reimer is the Director of Landscape Architecture responsible for the design and oversight of all landscape architecture projects and services and serves as project manager for site planning and site engineering projects. With extensive experience in landscape architecture, site development, and construction management, Mr. Reimer has completed the design, planning, and construction management for numerous state, commercial, and institutional projects for clients that include the New York City Department of Environmental Protection (NYCDEP), New Jersey Department of Transportation, New Jersey Department of Environmental Protection, and the U.S. Army Corps of Engineers. He has designed parks, plazas, and large-scale site plans for both residential and commercial developments.

Professional Experience

Feaster and Pittman Parks, New Brunswick, NJ

Project manager and lead Designer for the reconstruction of the parks. Public outreach was performed to gather input on what the community wanted to see in the park spaces. The \$4 million new park, includes a children's playground for the adjacent school, outdoor classroom, two basketball courts, outdoor exercise area, open plaza spaces, outdoor game tables, community gardens, spray park, and Amphitheater for community activity space.

Welton Street Park, New Brunswick, NJ

Landscape Architect/Project Manager for the Welton Street Park project. The design includes spaces for community gathering, and educational and recreational activities for nearby schools. The park also includes a rain garden and pervious pavements, which will help reduce pressures on the existing stormwater infrastructure.

LIRR Port Jefferson Station Enhancements

Landscape Architect responsible for the design of plaza spaces surrounding the station. Coordinated elements with team members during the design process.

Maywood Avenue Wetland Restoration, Maywood, NJ

Project manager and lead designer for the project. Matrix will be providing a monitoring report of the site for NJDEP for the next five years to ensure the success of the installed plant material.

LIRR Northport Station Enhancements

Project manager and lead designer for the design creation of new plaza spaces surrounding the station. The designs included a landscape and pavement design around the train station.

LIRR Syosset Station Enhancements

Project manager and lead designer for the design creation of new plaza spaces surrounding the station. The designs included a grading and pavement design around the train station.

Cedar Swamps Self Storage Facility, Jackson, NJ

Landscape architect responsible for the design and development drawings for the landscape plans for the project.



EDUCATION

BS, Landscape Architecture, Rutgers University, 1992

PROFESSIONAL REGISTRATIONS

Licensed Landscape Architect, New Jersey, 1999

Registered Landscape Architect, New York, 1999 and Pennsylvania

Landscape Architect, Connecticut, 2021, and Louisiana, 2021

WILLIAM REIMER, LLA, RLA **Director of Landscape Architecture**

Clifton Warehouse Landscape Restoration- Clifton, NJ

Landscape architect responsible for the design and development drawings for the landscape restoration plans.

Regency Shopping Center for the Oaks at Glenwood, Old Bridge Tree Inventory

Landscape architect responsible for the identifying the trees for the tree inventory and removals plan, as well as the design and development drawings for the landscape plan.

18 Central Avenue, West Orange, NJ

Landscape architect responsible for the design and development of the landscape plans for the project.

Kingsley Park Tennis Court Reconstruction, South Brunswick, NJ

Landscape architect responsible for the design and development drawings for the removals and layout plan for the restoration work for the proposed new tennis courts.

Stewart Warehouse, Ridgefield, NJ

Landscape architect responsible for the design and development of the landscape plans for the project.

Swimming River Park, Monmouth, NJ

Landscape architect/ lead designer responsible for the design and development drawing a concept plan for the proposal which included a proposed wetland with a boardwalk through the proposed forest, a kayak launch, boat ramp, fishing pier, and a new building.

Summit Ave, Jersey City, NJ

Landscape architect responsible for the design and development of the landscape plans for the project.

Delancey Street Redevelopment- Newark, NJ

Landscape architect responsible for the design and development of the landscape and streetscape plans for the project.

Linwood School Improvements, North Brunswick, NJ

Project manager for the design and development drawing of the parking lot expansion at the site.

Wrightstown Development, Wrightstown, NJ

Landscape architect for the mixed-use development composed of single-family homes, townhouses, apartments and commercial properties over 43-acre site.

MacGregory Brook Trail, Peekskill, NY

Landscape architect/lead designer for the upgrades to MacGregory Brook Park.

Sylvan Lake, Avon, NJ

Landscape Architect responsible for the design of living shoreline elements and stormwater treatment wetlands for the project. When installed, the plantings will provide a more stable edge for the lake and the stormwater treatment wetlands will improve the lake's water quality. Assisted in the creation of the construction drawings. The project included a living shoreline and public water access points.

Former SML Site, Hillside, NJ

Landscape architect for the design, development, construction drawings, permitting, and renderings for the facility, which was remediated by Matrix under Industrial Site Recovery Act (ISRA) regulations. The design included a foundation planting, screening from adjacent property, and planting along the street frontage. Matrix's role included overseeing the construction documents, permitting, and completion of remediation actions for the contaminated site.

11 Mount Pleasant Avenue Warehouse, East Hanover, NJ

Landscape architect for the development of construction drawings for the area surrounding the proposed warehouse.

ROBERT R. FIORILE

Technical Director – Ecological and Regulatory Services

Professional Qualifications

Robert Fiorile is a Senior Scientist with more than 30 years of experience working in the environmental field. Responsible for the completion of environmental reviews, ecological studies/surveys, natural resource inventories, and State and Federal environmental permit applications, Mr. Fiorile has served various client types with an emphasis on environmental assessments and impact statements in accordance with the National Environmental Policy Act (NEPA), as well as NY and NJ State environmental review regulations. He is also highly skilled in preparing permit applications for complex projects involving activities regulated under various State's freshwater wetlands protection programs, flood hazard area control programs, coastal zone management programs, and U.S. Army Corps of Engineers Section 10 and 404 programs.

Mr. Fiorile's experience includes various types of terrestrial and aquatic ecological studies/surveys, including watershed management plans, lake diagnostic-feasibility studies, lake restoration/management programs, nuisance aquatic species control programs, wetland delineations, seagrass surveys, shellfish surveys, acid soils surveys, and seagrass and wetland mitigation/restoration. He is well-versed in:

- Preparation of Freshwater Wetlands Protection Act Individual and Statewide General Permit applications for private development, utility installations, and county/municipal improvements.
- Preparation of Flood Hazard Area Control Act Individual and General Permit applications for private development, utility installations, and county/municipal improvements.
- Delineation of coastal and freshwater wetlands utilizing methodology presented in the Federal Manual for Identifying and Delineating Jurisdictional Wetlands (Federal Interagency Committee for Wetland Delineation, 1989) and the Corps of Engineers Wetlands Delineation Manual (Technical Report Y-87-1, January 1987).
- Wetland mitigation and restoration monitoring in accordance with State and Federal permitting requirements for the purpose of determining the success of wetland mitigation/restoration projects.
- Performance of seagrass surveys conducted in accordance with National Marine Fisheries Service's Seagrass Survey Guidelines to assess impacts resulting from projects occurring within the boundaries of submerged aquatic vegetation beds.
- Performance of seagrass research/restoration projects conducted as part of State and Federal funded grants.
- Preparation of Environmental Impact Statements completed in accordance with local municipal ordinances.
- Preparation of Upland and In-water Waterfront Development Individual Permit applications for dredging projects, utility line installations, and port facility improvements.

Professional Experience

Newark Bay Wetlands Restoration, City of Newark, NJ

Practice Lead responsible for the implementation of a coastal wetland restoration project funded by a grant made to the City of Newark by the Department of Interior National Fish and Wildlife Foundation (NFWF) through the Hurricane Sandy Coastal Resiliency Competitive Grant Program. The project entails the restoration and protection of a 12-acre wetlands complex



EDUCATION

B.S. Environmental Studies, Stockton University, 1993

CERTIFICATIONS AND TRAINING

Georgian Court University – Master of Biology Program

Rutgers, The State University of New Jersey – Cook College, Methodology of Delineating Wetlands | Plant Identification for Wetland Delineation | Hydric Soils | Coastal Project Review

New Jersey Marine Science Consortium, Marine Fossils

Academy of Natural Sciences of Philadelphia, Wetland Plant Identification

NAUI Open Water 1-SCUBA Diving Certification

ROBERT R. FIORILE

Technical Director – Ecological and Regulatory Services

located along Newark Bay. The site, which was historically separated from Newark Bay by an 800-foot revetment wall, is one of only a few remaining natural areas remaining in this highly-industrialized portion of Newark Bay. Although some healthy tidal wetlands remain, most of the site has become highly degraded by invasive species and severe shoreline erosion. This project will restore, enhance, and protect the wetland complex through the implementation of multiple resilient and sustainable measures. These include a living shoreline, saltmarsh restoration, and invasive species eradication. The project will ultimately buffer the wetland complex from continued erosion from the tidal action of Newark Bay, improve flood control for the adjoining upland areas in the City of Newark, and restore the natural habitat.

Rebuild by Design - New Meadowlands, Project Feasibility Study, NEPA Compliance & Environmental Impact Statement, Meadowlands Complex, NJ

Practice Lead responsible for permitting and design support for NJDEP sponsored and Housing and Urban Development (HUD) funded project for construction of flood risk reduction measures designed to address the impacts of inland and/or coastal flooding on the quality of the human environment due to both storm hazards and sea level change. The purpose of the project is to develop innovative, implementable solutions to respond to the region's most complex needs. The "New Meadowlands Project," which proposes to integrate transportation, ecology, and development projects to address a wide spectrum of risks, while providing civic amenities and creating opportunities for new redevelopment within the Meadowlands Basin. The project included evaluation of measures including the construction of floodwalls, surge barriers, pump stations, channel dredging, new and improved open spaces, and green infrastructure systems.

Benthic Habitat Restoration NJDOT State Channel Dredging Program, Barnegat Bay, NJ

Practice Lead responsible for providing marine/biological services necessary to support the New Jersey Department of Transportation (NJDOT) Office of Maritime Resources and their project team with efforts to maintain State Navigation Channels. Matrix led biological services required to support the beneficial reuse of dredge material from various State channels to restore ecologically impaired subaqueous borrow pits (a.k.a. dredged holes). Tasks included detailed site-specific sampling programs and development of dredged hole restoration plans for two locations in Barnegat Bay. The objective of the sampling program was to obtain data regarding the physical and chemical characteristics of sediment within surrounding high-quality shallow water habitat areas to identify the composition of material most appropriate for use in filling and restoring the dredged hole. The objective of the dredged hole restoration plan was to develop measures required to restore the two hypoxic dredged holes in order to promote recolonization of benthic organisms and submerged aquatic vegetation (SAV) beds. The plan included: identification of specific sources for appropriate fill material; specifications for final cover material; filling methodologies; operational best management practices; monitoring requirements; and adaptive management measures.

NYC Economic Development Corp. Raise the Shorelines City-wide Project, New York, NY

Practice Lead responsible for evaluation of ecological and regulatory components for NYC Economic Development Corp.'s (EDC) city-wide effort to plan shoreline improvements for coastal resiliency. Matrix was tasked with providing support for environmental services components as part of a city-wide effort to plan shoreline improvements for coastal resiliency. Specifically, Matrix provided services concerning evaluation/prioritization of NYC standalone sea level rise projects and Staten Island coastal erosion hazards projects, in relation to environmental permitting and ecological evaluations. The prioritization methodology for the Study involves: collection of all available mapping and dataset for environmentally and culturally sensitive resources; creating a database for use in ArcGIS to identify presence/absence of environmentally sensitive resources at all NYC standalone projects and Staten Island erosion hazards; assessing permitting requirements for projects based on resources present and proposed project typologies; determining the level of permitting difficulty for the projects' typology; filtering projects for prioritization relative to environmental factors by applying a numerical ranking system; and assisting the Project Team in preparation of the final report.

Liberty State Park Ferry Terminal Rehabilitation - Jersey City, NJ

Practice Lead responsible for the preparation of environmental assessment in compliance with NJ Executive Order 215 and applications for NJDEP and Army Corp of Engineers Permits. Project proposes reconstruction of the deteriorated and damaged ferry terminal components (upland and in-water) including 5 piers, fendering systems, 4 buffer platforms, and the bulkhead that supports the terminal.

GAVIN GILMORE

Vice President of Hazardous Materials Services

Professional Qualifications

Gavin Gilmore has more than 30 years of diverse experience as an asbestos, lead based paint and microbial investigator, project designer, project monitor, technician, and remediation supervisor. Mr. Gilmore's experience has included multiple size and scale projects for various transportation, industrial and private clients throughout New Jersey and New York. His responsibilities have included all phases of project participation from initial proposal and cost estimating to contract close out. Mr. Gilmore is equally experienced in project design and specification as onsite project monitoring and site compliance. He brings a necessary and valuable degree of field experience to enhance project execution.

Professional Experience

Gilbane Building Company, New Jersey Superstorm Sandy Rehabilitation, Reconstruction, Elevation, and Mitigation (RREM) Program

Project Manager responsible for the implementation and execution of multiple task order asbestos inspections, lead-based paint (LBP) risk assessments, and radon measurement testing (as applicable) for an anticipated 2,000 (+) single and multi-family residential structures. The asbestos, LBP and radon investigations are conducted in preparation of the proposed structural, architectural, mechanical, plumbing, and electrical rehabilitation efforts for both the landlord and homeowner-based State and Federally funded programs. Matrix is tasked with providing these services to program accepted Sandy impacted homes throughout northern New Jersey (north Monmouth to Bergen Counties).

New York City Rapid Repair Program

In response to Superstorm Sandy, Mr. Gilmore served as a New York City Department of Environmental Protection (NYCDEP) Certified Asbestos Investigator (CAI) and provided on-site visual assessments for hazardous materials at single and multi-family homes impacted by Superstorm Sandy. The purpose of the City's Rapid Repair Program was to provide free, emergency repairs needed to help safely restore electricity, heat, and hot water to hurricane-damaged homes and residential buildings in New York City. Mr. Gilmore was directly responsible for hundreds of impact assessments that included environmental areas of concern including asbestos-containing material (ACM), lead-based paint (LBP), visual mold growth, Category 3 (Black) water contaminants, petroleum spills, and/or chemical storage containers related to the storm surge, or materials that may become damaged by the necessary City repairs. Mr. Gilmore reported directly to the program's lead consultant firm and assisted in the program command post during weekend shifts.

Port Authority of NY & NJ – PATH, Federally Funded Superstorm Sandy Related Repair & Resiliency Projects, NJ & NY

Task leader responsible for providing environmental consulting services for the Stage I studies, focusing upon New York and New Jersey hazardous materials management for the PANYNJ's PATH proposed Design and Federally Funded Superstorm Sandy Related Repair and Resiliency Projects. The Projects involved review of the critical design standards and criteria with PANYNJ with an emphasis on the site-specific flood protection level design criteria; review of available documents; performing field surveys;



PROFESSIONAL REGISTRATIONS

USEPA/NYS Department of Labor
Asbestos Inspector, 2006, Project
Designer, Project Monitor, Air Sampling
Technician, 2007

New York City Department of
Environmental Protection Asbestos
Investigator, 2008

NJ Department of Health Lead
Inspector/Risk Assessor,

NY/EPA Lead Risk Assessor, 2007

Certified RMD's LPA-1 Lead Paint
System User

New Jersey Asbestos Safety
Technician, No. 01272, 2007

Certified Microbial Investigator, 2012

Site Remediation Basics, Rutgers
University, 2008

CERTIFICATIONS AND TRAINING

Construction Cost Estimating Training,
PANYNJ, 2008

NJ Transit Roadway Worker Safety
Training

MTA East Side Access Rail Safety
Training

NYC Supported Scaffold Safety
Training

National Environmental Confined Space
Entry Training

GAVIN GILMORE

Vice President of Hazardous Materials Services

completing analysis and design to prepare a Stage I level design with the required drawings, design and construction cost estimates, O&M costs, and schedules; and development of the FTA required event recurrence intervals and damage estimates.

Amtrak/FRA/NJ TRANSIT, Hudson River Tunnel Project, NY & NJ

Project Director responsible for overall project management and coordination with the project's lead engineering design joint venture (The Gateway Trans-Hudson Partnership (GTHP)) as related to the environmental scope and related environmental impacts associated with the proposed expansion of the existing trans-Hudson midtown Manhattan corridor by building a new rail tunnel under the Hudson River as well as associated infrastructure in both New Jersey and New York, including new tracks and platforms near Penn Station New York (PSNY). Under the direction of the GTHP, Matrix was responsible for performing all environmental investigation activities along the entire alignment corridor, including performance of Preliminary Assessments/Phase I Environmental Assessments, Site Investigations, and Remedial Investigations of properties, preparation of sampling and analysis plans, preparation of Preliminary Assessment/Phase I Environmental Assessment and Site Investigation Reports, Remedial Action Workplans, and assistance in the preparation of Property Acquisition Environmental Cost Estimating Reports for properties to be acquired along the right-of-way. During the EPE phase of the project, Matrix also provided environmental monitoring related to the project's geotechnical investigation phase including multiple borings within the Hudson River limits. As part of our services, Matrix worked closely with representatives of the GTHP, Amtrak, the Federal Railroad Administration (FRA), New Jersey Transit (NJ TRANSIT) as well as the Port Authority of New York and New Jersey (PANYNJ).

HOPES CAP, Hoboken, NJ, Asbestos, LBP, Mold Investigation, and Testing

Project Manager, American Council for Accredited Certification (ACAC) Certified Microbial Investigator (CMI), New Jersey Department of Health and Senior Services (NJDHSS) certified lead-based paint (LBP) Risk Assessor, United States Environmental Protection Agency (USEPA) Asbestos Hazard Emergency Response Act (AHERA) Asbestos Inspector. The Hopes Community Action Partnership (CAP) is a non-profit agency that provides child development/education programs serving expectant women, children from birth to age five and their families residing within the City of Hoboken. Mr. Gilmore has provided a wide variety of environmental services related to LBP clearance, mold investigation and remediation, asbestos testing, and investigative response actions to several New Jersey Department of Health (NJDOH) Safe Building Interior Certification requirements.

TEAM Academy, 18th Avenue School, Asbestos Inspection, Design and Abatement Oversight

Lead asbestos inspector, project designer and New Jersey Department of Community Affairs (NJDCA) Certified Asbestos Safety Technician responsible for a comprehensive review of the existing AHERA Management Plan, on-site investigation and testing for suspect asbestos-containing materials (ACM), development of the asbestos abatement design (including the City of Newark UCC permit set), and participation in the asbestos abatement oversight in accordance with the N.J.A.C. 5:23-8 (Subchapter 8) requirements for asbestos abatement within an occupied building. The subject building was a five-story masonry structure with friable asbestos-containing plaster and pipe insulation throughout. Mr. Gilmore developed an abatement plan accepted by the client that met the projects aggressive schedule and budget requirements while meeting and exceeding all regulatory standards.

Newark Housing Authority, Term Contract, Hazmat Investigation

Under our existing Newark Housing Authority (NHA) term environmental contract, Mr. Gilmore served as team leader responsible for a hazardous materials investigation of an existing NHA building that had been scheduled for demolition. The subject property consisted of an un-occupied two-story (split level) masonry structure that had been utilized by the NHA as a community Center. Connected to the structure was a large boiler house that at one time had serviced four separate NHA apartment high and low-rise buildings. During the hazmat investigation, multiple types of friable asbestos-containing materials (ACM) were noted to be in a significantly damaged condition and had (mostly) detached from their respective substrates causing an environmental concern for exposure. Mr. Gilmore was responsible for the field and reporting activities associated with the ACM, lead-based paint (LBP), polychlorinated biphenyls (PCBs) caulking, pigeon guano, and universal waste investigation.

SECTION 4

REFERENCES

New Jersey Department of Community Affairs

DCA Sandy Recovery Division
101 South Broad Street
Trenton, NJ 08625
Terrie Quintero, Sr. Contracting Officer
P: 609-292-6299

U.S. Merchant Marine Academy

Division of Procurement
USMMA-5206
300 Steamboat Road
Kings Point, NY 11024
Edward Kaja, PE
P: 516-726-5903
kajae@usmma.edu

AECOM USA, Inc.

125 Broad Street, 16th Floor
New York, NY 10004
Karen Appell, Associate Vice President
P: 212-973-2900
karen.appell@aecom.com

DSW Homes, LLC

2770 Hooper Avenue
Brick, NJ 08723
Paul Judson
P: 848-232-2817
Paul.judson@dswhomes.com

Mitigation Assistance Program Structural & Geotechnical Assessment Fairfield, NJ

PURPOSE OF CONTRACT

Matrix New World Engineering (Matrix) provided structural and geotechnical engineering services, as well as land surveying services, to the New Jersey Department of Community Affairs to provide an initial assessment of the viability of flood mitigation measures as part of the FEMA Mitigation Assistance Program at 20 residences in Fairfield, New Jersey.

Matrix oversaw test borings and test pits to determine the suitability of on-site soils for support of elevating the existing home at each location. Matrix submitted samples to the laboratory and provided a detailed geotechnical report detailing our findings. Our surveyors developed an Elevation Certificate at each residence to assess each property's flood zone designation, and establish lowest adjacent existing grades and finished floor grades for raising determinations.

Matrix also conducted an overall assessment of each residence to determine the condition and suitability for raising the houses from a structural perspective as well as any other considerations, and provided DCA with recommendations and cost estimates related to raising the homes in conformance with code requirements.



CLIENT

NJ Department of Community Affairs (DCA)
DCA Sandy Recovery Division

CONTACT

Liz Mackay
Assistant Director, Legal
609-292-1097

Larry Johnson
Program Manager
Sandy Recovery Division
609-292-6093

SERVICES PROVIDED

- Structural Engineering
 - Geotechnical Engineering
 - Land Surveying
-

COST

\$330,000

DURATION

2021 - 2022

KEY PERSONNEL

Michael Soltys, PE
Tim Pace, PE
Vikki Hon, PE
Frank Barlowski, PLS

2 Heald Road Residence Structural & Geotechnical Assessment Brigantine Township, NJ

PURPOSE OF CONTRACT

Matrix New World Engineering (Matrix) provided structural and geotechnical services to the New Jersey Department of Community Affairs to assess and recommend improvements with respect to ongoing structural concerns at the residence in question resulting from the RREM program post-Sandy.

Matrix oversaw test borings and test pits to determine the suitability of on-site soils for support of the newly elevated structure and to verify the construction that took place matched the construction drawings. Matrix submitted samples to the laboratory and provided a detailed geotechnical report detailing our findings.

Matrix also conducted a structural evaluation of the construction plans, the construction quality, and an individual assessment to verify the accuracy of the actual design and construction in concert with the geotechnical report. Matrix found several deficiencies and made remedial recommendations that were likely to be causing the ongoing issues on site.



CLIENT

NJ Department of Community
Affairs (DCA)
DCA Sandy Recovery Division

CONTACT

Terrie Quintero
Sr. Contracting Officer
609-292-6299

SERVICES PROVIDED

- Structural Engineering
 - Geotechnical Engineering
-

COST

\$17,500

DURATION

2018 - 2019

KEY PERSONNEL

Paul Calabrese, PE, PP, CME
Michael Soltys, PE
Tim Pace, EIT



Reconstruction, Rehabilitation, Elevation & Mitigation (RREM) Program On-Call Services Throughout New Jersey

PURPOSE OF CONTRACT

Matrix New World Engineering (Matrix) provided site civil engineering and land surveying services to homeowners throughout New Jersey whose homes were impacted by Superstorm Sandy in 2012. Matrix completed over 350 properties. The scope of services Matrix provided through the various contractors/builders in accordance with the RREM Program requirements were as follows:

Boundary & Topographic Survey: The boundary and topographic survey included all relevant information pertaining to the property boundary. A limited topographic survey was performed that provided pertinent elevation data regarding the finished floor elevation of the existing structure and spot elevations on the property. This information was necessary to ensure that the structure was raised to the proper level above flood stage and provided a basis for the proposed grading of the site after the structure was raised.

Geotechnical Investigation or Analysis: A soil sample (one test boring) was performed at the property. Soils were sampled and classified to a depth of 20 feet. Matrix also provided a foundation recommendation for the property.

Foundation Inspection & Assessment: Once the client excavated test pits exposing the existing foundation and notified Matrix, Matrix visited the site to inspect and document existing conditions which included the type of foundation, general condition (signs of failure, settlement, etc.), and type of structure for house above-grade (observe general layout of walls, type of framing, etc.). All findings were discussed and recommendations/options for action were also discussed. Once the inspection and assessment were completed Matrix worked on the foundation/pile design.

Foundation Design Plan: The design plans indicated the locations, sizes, and types of structural masonry units to be utilized to adequately support the raised structure. The plan was prepared in accordance with all applicable building codes and standards for the municipality. The proposed foundation could have been either concrete block or wood piles and was determined based upon discussions between the structural engineer and the client.



CLIENT

DSW Homes, LLC
Sullivan Land Services, Ltd.
SmartCenter Companies
Ducky Johnson Home
Elevations
A Trubuilders
A Future with Hope

CONTACT

Paul Judson
848.232.2817
Paul.judson@dswhomes.com

SERVICES PROVIDED

- Boundary & Topographic Survey
- Initial & Final Flood Elevation Certificate
- Geotechnical Investigation & Analysis
- Piling/Raising Plan Design
- NJDEP CAFRA Applicability Evaluation
- Plot & Grading Plans
- Cribbing Elevation Drawing
- Foundation Location Survey

COST

\$2,000,000

DURATION

2014 – 2017

KEY PERSONNEL

David Eareckson, PE
Sean Savage, PE, LEED AP
Frank Barlowski, PLS

USMMA - Crowninshield and Cressy Piers Replacement and Partial Seawall Rehabilitation Kings Point, Nassau County, New York

PURPOSE OF CONTRACT

Matrix New World Engineering (Matrix) was retained by the U.S. Merchant Marine Academy (USMMA) to provide structural and civil engineering, surveying, and environmental review and permitting services for the replacement of the Crowninshield Pier and the Cressy Pier, and the rehabilitation of southern sections of the seawall at USMMA located in Kings Point, New York.

The original piers were damaged from past storm events and in dire need of repair/replacement. The existing Crowninshield Pier will be replaced with a composite wave screen and floating docks. The Cressy Pier will be replaced in-place, in-kind, and is designed for heavy duty loads up to 400 psf loading or 20T mobile crane loading. The facility, once constructed, will continue to be used primarily by the USMMA students and employees for educational purposes. The project also includes the rehabilitation of an existing dilapidating southern section of the concrete seawall and replacement of amenities and utilities in the project area.

Matrix completed the structural design, site survey, hazardous materials review, utilities design and evaluation of the subsurface soil conditions, prepared permit applications and submitted to regulatory agencies (NYSDEC, NYSDOS, USACE), prepared State Environmental Quality Review (SEQR) documentation and conducted SHPO Section 106 Consultation. In addition, Matrix prepared an Environmental Assessment (EA) pursuant to the National Environmental Policy Act of 1969 (NEPA) guidelines. Matrix used existing data to prepare an EA for the project that addressed baseline environmental conditions and project-specific and cumulative impact analysis for natural resources, cultural resources, visual resources, noise, land use, coastal resources, socioeconomics and environmental justice, traffic circulation, utilities and infrastructure, hazardous materials/waste, and public services for four alternatives (including No Action). Matrix also helped to develop mitigation measures to minimize potentially adverse environmental impacts below the significant threshold.

CLIENT

U.S. Merchant Marine Academy
Div. of Procurement,
USMMA-5206
300 Steamboat Road
Kings Point, NY 11024

CONTACT

Edward Kaja, PE
516-726-5903
kajae@usmma.edu

SERVICES PROVIDED

- Land Surveying
- Civil Engineering
- Structural Engineering
- Environmental Review & Permitting

COST

\$175,000

DURATION

2016 - 2021

KEY PERSONNEL

Paul Calabrese, PE, PP, CME
Andrew Raichle, PE
Robert Fiorile
Michael Soltys, PE
Nicholas DeCotiis, PE, CME
Rejina Sharma



Rebuild by Design – Hudson River Project Hoboken, Jersey City & Weehawken, NJ

PURPOSE OF CONTRACT

Matrix New World Engineering (Matrix) is part of a multi-disciplined, international consulting team implementing the New Jersey Department of Environmental Protection's Hudson River Flood Resiliency Project. In response to Superstorm Sandy's devastating impact upon Hudson County's waterfront communities, the United States Department of Housing and Urban Development (HUD) issued a \$230 million grant to the State of New Jersey for the implementation of the first phase of the "Hudson River Project" in the cities of Hoboken, Weehawken, and Jersey City. The Project was selected as a winner in HUD's Rebuild by Design competition and includes a "resist" element, consisting of flood walls, tidal gates and urban park improvements designed to keep tidal floodwaters at bay, as well as a high-level stormwater system (HLSS) designed to prevent conveyance of tidal surges through existing stormwater pipes.

Matrix has a multi-disciplined project role that includes data collection (surveying, geotechnical and environmental), design assistance (marine, geotechnical, and civil), and right of way acquisitions. Matrix's role in the project began at inception and will continue through contractor procurement and construction. Unique and challenging efforts in support of the project include subsurface tunnel surveying, bathymetric surveys, and intensive field activities located within a densely populated and traffic-intensive urban environment.

CLIENT

NJ Department of
Environmental Protection
Prime Contractor:
AECOM USA, Inc.
125 Broad Street, 16th Floor
New York, NY 10004

CONTACT

Karen Appell
AECOM
212-973-2900

SERVICES PROVIDED

- Geotechnical Engineering
- Environmental Investigations
- Hydrographic Surveying
- Boundary & Topographic Surveying
- Civil Engineering
- Marine Engineering
- Right-of-way Acquisition

COST

\$3,155,210 to-date

DURATION

2017 – Ongoing

KEY PERSONNEL

Andrew Raichle, PE
Donna McCormack
Frank Barlowski, PLS
Michael Soltys, PE
Amber Radiola, EIT



Belmar Beachfront Building Construction Belmar, NJ

PURPOSE OF CONTRACT

Matrix New World Engineering (Matrix), under previous employment, provided a wide range of professional services for the construction of two beachfront buildings in Belmar, NJ, one of which was destroyed by Superstorm Sandy.

Taylor Pavilion, located at the end of Fifth Avenue, is a 6,800-square-foot facility on steel piles. The building serves as a banquet hall / multi-purpose room with restaurant capabilities, a beach badge booth, and public restrooms. The building at the end of Tenth Avenue is a three-story building on steel piles and serves as a lifeguard observation deck, police substation, first aid station, and concession stand/restaurant.

The design of the buildings focused heavily on meeting flood resiliency requirements set by FEMA by elevating the structures above the FEMA flood elevation.

Matrix was integral to this project's success, from project, subconsultant, client, and public interaction and management, to the overall structural and civil design, to the construction administration and management of the project.

CLIENT

Borough of Belmar
601 Main Street
Belmar, NJ 07719

CONTACT

Colleen Connolly
Former Borough Administrator

SERVICES PROVIDED

- Structural Engineering
 - Civil Engineering
 - Bid Support
 - Construction Administration
-

COST

\$5,450,000

DURATION

2013 - 2017

KEY PERSONNEL

Paul Calabrese, PE, PP, CME
Nicholas DeCotiis, PE, CME
Michael Soltys, PE



NYCDDC Build It Back Brooklyn Outer Borough Resident Market Recovery Brooklyn, New York

PURPOSE OF CONTRACT

Matrix New World Engineering (Matrix) is responsible for the professional land surveying services for various sites that were a part of Build It Back program in Brooklyn for Hurricane Sandy residential community recovery.

Topographic survey, as-built survey, boundary survey, and construction stakeout services are provided for these sites as a part of this project. Conventional survey instruments like GPS and Total Station are being utilized for locating features while techniques like traverse and digital level run are utilized for establishing control.



CLIENT

ZHL Group, Inc.
2383 McDonald Avenue
Brooklyn, NY 11223

CONTACT

Henry Chao
718-331-2807

SERVICES PROVIDED

- Comprehensive Surveying & Mapping

COST

\$42,700 to-date

DURATION

2017 - Ongoing

KEY PERSONNEL

Stephen Moncrief, Jr., PLS
Bartholomew Wyness, PLS

SECTION 5

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.**

FINANCIAL STATEMENTS - RESTATED

YEAR ENDED DECEMBER 31, 2022

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
FOR THE YEAR ENDED DECEMBER 31, 2022**

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**TO THE STOCKHOLDER
MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
Florham Park, New Jersey**

INDEPENDENT ACCOUNTANTS' REVIEW REPORT

We have reviewed the accompanying restated financial statements of Matrix New World Engineering, Land Surveying and Landscape Architecture, P.C. (the "Company"), which comprise the balance sheet as of December 31, 2022, and the related statements of income, stockholder's equity and cash flows for the year then ended, and the related notes to the financial statements. A review includes primarily applying analytical procedures to management's financial data and making inquiries of Company management. A review is substantially less in scope than an audit, the objective of which is the expression of an opinion regarding the financial statements as a whole. Accordingly, we do not express such an opinion.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these restated financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement whether due to fraud or error.

Accountants' Responsibility

Our responsibility is to conduct the review engagement in accordance with Statements on Standards for Accounting and Review Services promulgated by the Accounting and Review Services Committee of the AICPA. Those standards require us to perform procedures to obtain limited assurance as a basis for reporting whether we are aware of any material modifications that should be made to the financial statements for them to be in accordance with accounting principles generally accepted in the United States of America. We believe that the results of our procedures provide a reasonable basis for our conclusion.

We are required to be independent of Matrix New World Engineering, Land Surveying and Landscape Architecture, P.C. and to meet our ethical responsibilities, in accordance with accounting principles generally accepted in the United State of America.

Restatement of Previously Issued Financial Statements

As discussed in Note 1 to the Financial Statements, the Company has restated its balance sheet, statement of income, changes in stockholder's equity and cash flows for December 31, 2022 to correct an accounting estimate.

Accountants' Conclusion

Based on our review, we are not aware of any material modifications that should be made to the accompanying restated financial statements in order for them to be in accordance with accounting principles generally accepted in the United States of America.

Supplementary Information

The supplementary information contained in the schedule of operating expenses is presented for purposes of additional analysis and are not a required part of the basic financial statements. Such information is the responsibility of management. We have not audited or reviewed such information and we do not express an opinion, a conclusion, nor provide any form of assurance on it.

The Meglio Group, P.C.

THE MEGLIO GROUP, P.C.
Certified Public Accountants
Caldwell, New Jersey
November 28, 2023

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
BALANCE SHEET - RESTATED
DECEMBER 31, 2022**

Current Assets

Cash and Cash Equivalents	<u>\$ 9,151,889</u>
Accounts Receivable	
Billed, net of allowance for doubtful accounts of \$1,764,863	16,683,579
Retainages	<u>208,007</u>
Total Accounts Receivable	<u>16,891,586</u>

Other Current Assets

Contract Assets	4,772,484
Due from Employees	16,609
Prepaid Expenses and Other Current Assets	<u>366,220</u>
Total Other Current Assets	<u>5,155,313</u>

Total Current Assets	<u>31,198,788</u>
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Property and Equipment, net of depreciation of \$2,192,501	<u>1,032,104</u>
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Other Assets

Right To Use Assets	5,698,814
Security Deposits	<u>275,072</u>
Total Other Assets	<u>5,973,886</u>

Total Assets	<u><u>\$ 38,204,778</u></u>
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**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
BALANCE SHEET - RESTATED (CONTINUED)
DECEMBER 31, 2022**

Current Liabilities

Accounts Payable	\$ 4,308,758
Accrued Expenses	2,103,750
Current Portion of Capital Lease Liability	209,352
Lease Liability - Current Portion	343,826
Current Portion of Long Term Debt	<u>299,387</u>
Total Current Liabilities	<u>7,265,073</u>

Long Term Liabilities

Deferred Rent	43,160
Capital Lease Liability - Net of Current Portion	271,791
Lease Liability - Long-Term Portion	5,476,620
Long Term Debt - Net of Current Portion	<u>424,089</u>
Total Long Term Liabilities	<u>6,215,660</u>

Total Liabilities	<u>13,480,733</u>
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Stockholder's Equity

Common Stock, No Par Value 200,000 Shares	
Authorized, 190,332 Shares Issued and Outstanding	41,802
Less: Treasury Stock, 9,668 Shares	(725,000)
Additional Paid-in Capital	400,000
Retained Earnings	<u>25,007,243</u>

Total Stockholder's Equity	<u>24,724,045</u>
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Total Liabilities and Stockholder's Equity	<u><u>\$ 38,204,778</u></u>
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**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
STATEMENT OF INCOME - RESTATED
FOR THE YEAR ENDED DECEMBER 31, 2022**

Net Professional Fees	\$ 41,051,931
Direct Labor & Other costs	<u>(13,685,630)</u>
Gross Profit	27,366,301
Operating Expenses	<u>(19,910,540)</u>
INCOME BEFORE TAXES, DEPRECIATION & AMORTIZATION	7,455,761
Interest expense, Net of Interest Income	(36,512)
Depreciation & Amortization	(415,751)
Provision for State Income Taxes	<u>(276,118)</u>
NET INCOME	<u><u>\$ 6,727,380</u></u>

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
STATEMENT OF CHANGES IN STOCKHOLDER'S EQUITY - RESTATED
FOR THE YEAR ENDED DECEMBER 31, 2022**

	<u>Common Stock</u>	<u>Paid-in Capital</u>	<u>Retained Earnings</u>	<u>Treasury Stock</u>	<u>Total</u>
Stockholder's Equity, January 1, 2022	\$41,802	\$400,000	\$19,988,532	\$(725,000)	\$19,705,334
Net Income	-	-	6,727,380	-	6,727,380
Distributions to Stockholder	<u>-</u>	<u>-</u>	<u>(1,708,669)</u>	<u>-</u>	<u>(1,708,669)</u>
Stockholder's Equity, December 31, 2022	<u><u>\$41,802</u></u>	<u><u>\$400,000</u></u>	<u><u>\$25,007,243</u></u>	<u><u>\$(725,000)</u></u>	<u><u>\$24,724,045</u></u>

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
STATEMENT OF CASH FLOWS - RESTATED
FOR THE YEAR ENDED DECEMBER 31, 2022**

CASH FLOWS FROM OPERATING ACTIVITIES	
Net Income	\$ 6,727,380
Adjustments to reconcile net income to net	
Cash Provided from (used by) Operating Activities:	
Depreciation and Amortization Expense	415,751
Deferred Rent	(91,504)
Change in Operating Assets and Liabilities:	
Accounts Receivable, net	(1,880,789)
Unbilled Revenue	29,547
Vendor Prepayments	(714,178)
Prepaid and Other Current Assets	(125,752)
Security Deposits	(99,400)
Accounts Payable	2,869,744
Accrued Expenses	<u>434,088</u>
NET CASH PROVIDED FROM OPERATING ACTIVITIES	<u>7,564,887</u>
CASH FLOWS FROM INVESTING ACTIVITIES	
Increase in Right To Use Assets	(5,698,814)
Net Additions to Fixed Assets	<u>(407,779)</u>
NET CASH USED BY INVESTING ACTIVITIES	<u>(6,106,593)</u>
CASH FLOWS FROM FINANCING ACTIVITIES	
Repayments of Capital Leases	(68,972)
Net Increase in Lease Liabilities	5,820,446
Repayments of Bank Debt	(337,321)
Distributions to Stockholder	<u>(1,708,669)</u>
NET CASH USED BY FINANCING ACTIVITIES	<u>3,705,484</u>
NET INCREASE IN CASH AND CASH EQUIVALENTS	5,163,778
CASH AND CASH EQUIVALENTS - BEGINNING OF YEAR	<u>3,988,111</u>
CASH AND CASH EQUIVALENTS - END OF YEAR	<u><u>\$ 9,151,889</u></u>
Cash Paid During The Year For:	
Interest	\$ 58,195
State Tax Expense	<u><u>\$ 276,118</u></u>

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
NOTES TO FINANCIAL STATEMENTS - RESTATED
DECEMBER 31, 2022**

NOTE 1 RESTATED FINANCIAL STATEMENTS

These financial statements and related notes to the financial statements are restated from those originally issued on July 10, 2023. Material changes of Right To Use Assets, Lease Liabilities and the related Lease and Interest expenses have been corrected to include additional lease obligations not known when the financial statement were originally issued.

NATURE OF OPERATIONS

Matrix New World Engineering, Land Surveying and Landscape Architecture, P.C. ("Matrix" or the "Company") provides consulting services in the fields of environmental engineering, geotechnical surveying, transportation infrastructure, ecology management, marine and waterfront engineering, water resource development, land surveying, land development, and landscape architecture. Clients of the Matrix include engineering firms, local government agencies and private industry, including real estate developers. Projects are primarily located in the Northeast, Southwest and Gulf Coast regions of the United States. The length of the projects varies from approximately one month to several years.

Matrix is a certified Disadvantaged Business Entity and Woman-Owned Business Entity allowing the Company to be awarded certain contracts with a priority over other firms without these certifications.

NOTE 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting

The financial statements of the Company are maintained in conformity with the accrual method of accounting and accounting principles generally accepted in the United States of America.

Use of Estimates

The preparation of financial statements, in conformity with accounting principles accepted in the United States of America ("U.S. GAAP") requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of revenues and expenses during the period. Actual results could differ from those estimates. Significant estimates used in the preparation of these financial statements include the estimated useful lives of depreciable assets and allowance for doubtful accounts.

Cash and Cash Equivalents

The Company considers all highly liquid debt instruments purchased with maturity of three months or less to be cash equivalents.

Accounts Receivable

Accounts receivable are stated at the amount the Company expects to collect from outstanding balances. The Company maintains allowances for doubtful accounts for estimated losses resulted from the inability of its customers to make required payments. Management considers the following factors when evaluating the collectability of specific customer accounts; customer creditworthiness, past transaction history with the customer, current economic industry trends, and changes in customer payments terms when determining the collectivity of specific customer accounts. Based on management's assessment, the Company provides for estimated uncollectible amounts through a charge to earnings and a credit to a valuation allowance account. Balances that remain outstanding after the Company has made reasonable collection efforts are written off through a charge to the valuation allowance account and a credit to the accounts receivable account.

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
NOTES TO FINANCIAL STATEMENTS - RESTATED
DECEMBER 31, 2022**

NOTE 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

Property and Equipment

Acquisitions of property and equipment are recorded at cost, less accumulated depreciation. Improvements and replacements are capitalized. Maintenance and repairs which do not improve or extend the lives of the respective assets are expensed as incurred. When assets are sold or retired, their costs and related depreciation are removed from the accounts and any gain or loss from disposition is reported on the statement of income.

Depreciation is provided by using straight-line or accelerated method over the estimated useful lives of the related assets (3-12 years).

Long-lived Assets

The Company reviews the recoverability of its long-lived assets on a periodic basis in order to identify events or changes in circumstances that may indicate a possible impairment in accordance with the provisions of FASB ASC 360, *Accounting for the Impairments or Disposal of Long-Lived Assets*. The assessment for potential impairments is based primarily on the Company's ability to recover the unamortized balance of its long-lived assets from expected future cash flows from operations on an undiscounted basis. The Company believes that no such events or changes have occurred.

Income Taxes

The Company has elected, with the consent of its stockholders, to be treated under the provisions of Subchapter S of the Internal Revenue Code and certain states that allow such provision. Under those provisions, the Company is not liable for federal or state corporation income taxes on its taxable income. Instead, the stockholder is liable for individual income taxes on their share of the Company's taxable income. Accordingly, no federal income tax provision or liability has been included in the financial statements.

In 2021, the Company elected to participate in the New Jersey and New York Pass-Through Alternative Income Tax provisions, which allow pass-through entities to pay tax due on the owner's share of distributive proceeds. For year ended December 31, 2022, the amount paid for this tax was \$199,699 and is included in the provision for state taxes.

The Company's income tax filings are subject to audit by federal and state taxing authorities. The Company accrues a liability for any uncertain tax benefits and any related penalties and interest. On December 31, 2022, no such asset or liability was recognized. The Company's open audit periods are 2010 through 2021.

Advertising

Advertising and Marketing costs are expensed as incurred. Expenses for the year ended December 31, 2022 were \$277,891.

Concentrations

On December 31, 2022, cash balances at two financial institutions exceeded the federally insured limit of \$250,000 by \$8,875,304. Management monitors regularly the financial condition of the banking institutions, along with their balances in cash and cash equivalents and keeps this potential risk to a minimum.

For the year ended December 31, 2022, one customer accounted for 16.2% of the Company's gross revenue and as of December 31, 2022, there were no accounts receivable concentrations. Generally, the Company's policies do not require collateral to support accounts receivable.

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITURE, P.C.
NOTES TO FINANCIAL STATEMENTS - RESTATED
DECEMBER 31, 2022**

NOTE 3 REVENUE RECOGNITION

Revenue Recognition Policy

The Company derives its revenue primarily from providing contracted engineering services. Revenues are recognized on a monthly basis when services and direct costs, if applicable, are provided. Costs incurred to obtain a contract are expenses as incurred when the amortization period is less than one year.

Disaggregation of Revenue From Contracts with Customers

The Company's revenues are based on the timing of satisfaction of performance obligations at a point in time, typically at the completion of a monthly accounting cycle.

Performance Obligations

For performance obligations related to providing engineering services, control transfers to the customer at a point in time, typically once the services and related direct costs are provided during a month, or more frequently, if the contract contains such a provision.

Payment terms are primarily due upon receipt.

NOTE 4 CONTRACT BALANCES

Contract Assets and Liabilities

Contract Assets include unbilled amounts typically resulting from revenue under contracts when the revenue recognized exceeds the amount billed to the customer. Since the company typically recognized revenue when services are provided, there are no contract liabilities.

Contract balances at December 31, 2022 were:

Contract Receivables - Active Projects	\$ 13,039,381
Contract Receivables - Completed or Inactive Projects	<u>\$ 5,409,061</u>
	<u>\$ 18,448,442</u>
Less: Allowance for Doubtful Accounts	<u>\$ (1,764,863)</u>
Net Accounts Receivable	<u><u>\$ 16,683,579</u></u>
Retainages	<u><u>\$ 208,007</u></u>
Contract Assets	<u><u>\$ 4,772,484</u></u>

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
NOTES TO FINANCIAL STATEMENTS - RESTATED
DECEMBER 31, 2022**

NOTE 5 PROPERTY AND EQUIPMENT

The property and equipment on December 31, 2022 is as follows:

Computer Equipment	\$ 332,766
Office Equipment	5,239
Field Equipment	1,077,395
Leasehold Improvements	528,520
Furniture and Fixtures	311,852
Software	12,061
Vehicles	956,772
Property, Plant and Equipment Cost	3,224,605
Less: Accumulated Depreciation	(2,192,501)
Total Net Value	<u><u>\$ 1,032,104</u></u>

Depreciation expense for the year ended December 31, 2022 was \$415,751.

NOTE 6 DEBT

Line of Credit

The Company has a \$2,000,000 working capital line of credit with a financial institution maturing in December 2024. The interest rate on the line of credit is the bank's five-year cost of funds and will be charged at the rate in effect if future advances are utilized. The Company has pledged its assets as collateral for the line of credit. The stockholder, an officer of the Company and an affiliated entity are also guarantors of the line of credit. At December 31, 2022, there was no outstanding balance on the line of credit.

Term Loan

In December 2019, the Company entered into a term loan agreement with a bank for \$1,690,000. The loan is payable in monthly principal installments of \$24,949, plus interest at 4.9%, and matures in December 2024. The loan secured by the assets of the Company and personally guaranteed by the Company's stockholder, an officer of the Company, and an affiliated entity. The loan agreement contains certain covenants which management believes the Company has met at December 31, 2022 and for the year then ended. At December 31, 2022, the balance outstanding on the loan was \$723,476.

Maturities on the loan at December 31, 2022 are as follows:

2023	\$ 299,387
2024	424,089
Total	<u><u>\$ 723,476</u></u>

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
NOTES TO FINANCIAL STATEMENTS - RESTATED
DECEMBER 31, 2022**

NOTE 7 RETIREMENT PLAN

The Company adopted a standardized 401(k) Plan for all employees. Participants may contribute up to 100% of their compensation up to the federal maximum limit. The Company elected to make a matching contribution for the year ended December 31, 2022 of \$611,466, which was included in the operating expenses

NOTE 8 CAPITAL LEASES

The Company leases automobiles and certain equipment under agreements that are classified as capital leases, which expire periodically through 2025. Automobiles and equipment under capital leases are amortized over the useful lives of the assets and amortization expense is included in the depreciation expense. The obligations are amortized over the terms of the lease.

Future minimum payments under capital lease obligations are as follows:

	<u>Equipment</u>	<u>Automobiles</u>	<u>Total</u>
Current	\$ 91,065	\$ 118,287	\$ 209,352
Long-Term			
2024	43,423	92,276	135,699
2025	8,410	70,124	78,534
2026		32,588	32,588
2027 & Thereafter	-	24,970	24,970
Long - Term	<u>51,833</u>	<u>219,958</u>	<u>271,791</u>
Total	<u>\$ 142,898</u>	<u>\$ 338,245</u>	<u>\$ 481,143</u>

NOTE 9 OPERATING LEASES

The Financial Accounting Standards Board (FASB) requires all leases with a term greater than twelve months be recognized on the balance sheet through a right To Use Asset and a Lease Liability with disclosures of key information pertaining to the leasing arrangements.

The Company entered into several operating lease agreements for the use of property, equipment and vehicles with various terms and monthly payments.

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
NOTES TO FINANCIAL STATEMENTS - RESTATED
DECEMBER 31, 2022**

NOTE 9 OPERATING LEASES (Continued)

Future lease obligations under these leases at December 31, 2022 are as follows:

Actual payments for rent over the next several years are:

	Real Estate	Automobiles & Equipment	Total
2023	\$ 615,453	\$ 25,303	\$ 640,756
2024	1,058,634	14,644	1,073,278
2025	939,220	10,911	950,131
2026	824,943	10,911	835,854
2027 & Thereafter	3,675,639	8,184	3,683,823
Total	\$ 7,113,889	\$ 69,953	\$ 7,183,842

Present Value of rent payments over the next several years are included in the balance sheet as Lease Liability:

Current Portion	\$ 331,170	\$ 12,656	\$ 343,826
2024	817,736	9,420	827,156
2025	736,729	9,938	746,667
2026	656,689	10,485	667,174
2027 & Thereafter	3,227,439	8,184	3,235,623
Long-Term Portion	5,438,593	38,027	5,476,620
Total	\$ 5,769,763	\$ 50,683	\$ 5,820,446

NOTE 10 RELATED-PARTY TRANSACTIONS

An affiliated entity provides construction services for the Company and the Company provides services to the affiliate. The financial statements for the year ended December 31, 2022 include revenue of \$182,734, and cost of services of \$3,443,605 from/to the affiliate. At December 31, 2022, accounts receivable and accounts payable include of \$501,741 and \$311,646 respectively, were from/to the affiliate.

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITURE, P.C.
NOTES TO FINANCIAL STATEMENTS - RESTATED
DECEMBER 31, 2022**

NOTE 11 SUBSEQUENT EVENTS

Management has evaluated subsequent events through November 28, 2023, the date the financial statements were available to be issued.

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
SUPPLEMENTAL SCHEDULE - OPERATING EXPENSES - RESTATED
FOR THE YEAR ENDED DECEMBER 31, 2022**

Salaries	\$ 9,244,425
Officer's Salary	598,385
Payroll Taxes	1,711,711
Employee Benefits	1,956,065
Pension Expense	611,466
Advertising and Marketing	277,891
Information Technology & Computer Expenses	826,040
Office Supplies and Expense	208,156
Postage & Delivery	37,157
Dues and Subscriptions	62,624
Printing and Reproduction	144,439
Licenses and Permits	61,587
Insurance	823,080
Legal & Accounting Fees	180,071
Other Professional Fees	428,689
Occupancy Expenses	1,356,617
Payroll Service	20,050
Repairs & Maintenance	86,829
Telephone	318,260
Seminars & Training	65,012
Vehicle Expense	232,860
Travel	209,889
Bank Charges	10,369
Meals & Entertainment	157,744
Charitable Contributions	20,950
Bad Debt Recoveries, net of expense	260,174
TOTAL OPERATING EXPENSES	<u><u>\$ 19,910,540</u></u>

See independent accountants' review report on supplementary information

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.**

FINANCIAL STATEMENTS

YEAR ENDED DECEMBER 31, 2021

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
FOR THE YEAR ENDED DECEMBER 31, 2021**

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**TO THE STOCKHOLDER
MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
Florham Park, New Jersey**

INDEPENDENT ACCOUNTANTS' REVIEW REPORT

We have reviewed the accompanying restated financial statements of Matrix New World Engineering, Land Surveying and Landscape Architecture, P.C. (the "Company"), which comprise the balance sheet as of December 31, 2021, and the related statements of income, stockholder's equity and cash flows for the year then ended, and the related notes to the financial statements. A review includes primarily applying analytical procedures to management's financial data and making inquiries of Company management. A review is substantially less in scope than an audit, the objective of which is the expression of an opinion regarding the financial statements as a whole. Accordingly, we do not express such an opinion.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these restated financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement whether due to fraud or error.

Accountants' Responsibility

Our responsibility is to conduct the review engagement in accordance with Statements on Standards for Accounting and Review Services promulgated by the Accounting and Review Services Committee of the AICPA. Those standards require us to perform procedures to obtain limited assurance as a basis for reporting whether we are aware of any material modifications that should be made to the financial statements for them to be in accordance with accounting principles generally accepted in the United States of America. We believe that the results of our procedures provide a reasonable basis for our conclusion.

We are required to be independent of Matrix New World Engineering, Land Surveying and Landscape Architecture, P.C. and to meet our ethical responsibilities, in accordance with accounting principles generally accepted in the United State of America.

Accountants' Conclusion

Based on our review, we are not aware of any material modifications that should be made to the accompanying restated financial statements in order for them to be in accordance with accounting principles generally accepted in the United States of America.

Supplementary Information

The supplementary information contained in the schedule of operating expenses is presented for purposes of additional analysis and are not a required part of the basic financial statements. Such information is the responsibility of management. We have not audited or reviewed such information and we do not express an opinion, a conclusion, nor provide any form of assurance on it.

The Meglio Group, P.C.

THE MEGLIO GROUP, P.C.
Certified Public Accountants
Caldwell, New Jersey
May 2, 2022

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
BALANCE SHEET
DECEMBER 31, 2021**

Current Assets

Cash and Cash Equivalents	<u>\$ 3,988,111</u>
Accounts Receivable	
Billed, net of allowance for doubtful accounts of \$1,600,891	14,802,790
Retainages	<u>237,554</u>
Total Accounts Receivable	<u>15,040,344</u>

Other Current Assets

Contract Assets	4,058,306
Due from Employees	16,609
Prepaid Expenses and Other Current Assets	<u>240,467</u>
Total Other Current Assets	<u>4,315,382</u>

Total Current Assets	<u>23,343,837</u>
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Property and Equipment, net of depreciation of \$2,083,235	<u>1,040,076</u>
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Other Assets

Security Deposits	<u>175,672</u>
Total Other Assets	<u>175,672</u>

Total Assets	<u><u>\$ 24,559,585</u></u>
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**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
BALANCE SHEET (CONTINUED)
DECEMBER 31, 2021**

Current Liabilities

Accounts Payable	\$ 1,439,014
Accrued Expenses	1,669,662
Current Portion of Capital Lease Liability	220,147
Current Portion of Long Term Debt	<u>299,387</u>

Total Current Liabilities	<u>3,628,210</u>
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Long Term Liabilities

Deferred Rent	134,664
Capital Lease Liability - Net of Current Portion	329,967
Long Term Debt - Net of Current Portion	<u>761,410</u>

Total Long Term Liabilities	<u>1,226,041</u>
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Total Liabilities	<u>4,854,251</u>
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Stockholder's Equity

Common Stock, No Par Value 200,000 Shares	
Authorized, 190,332 Shares Issued and Outstanding	41,802
Less: Treasury Stock, 9,668 Shares	(725,000)
Additional Paid-in Capital	400,000
Retained Earnings	<u>19,988,532</u>

Total Stockholder's Equity	<u>19,705,334</u>
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Total Liabilities and Stockholder's Equity	<u>\$ 24,559,585</u>
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**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
STATEMENT OF INCOME
FOR THE YEAR ENDED DECEMBER 31, 2021**

Net Professional Fees	\$ 34,740,613
Direct Labor & Other costs	<u>(12,008,124)</u>
Gross Profit	22,732,489
Operating Expenses	(16,381,936)
Gain on Sale of Fixed Assets	<u>20,314</u>
INCOME BEFORE TAXES, DEPRECIATION & AMORTIZATION	6,370,867
Interest expense, Net of Interest Income	(82,200)
Depreciation & Amortization	(376,549)
Provision for State Income Taxes	<u>(424,784)</u>
NET INCOME	<u><u>\$ 5,487,334</u></u>

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
STATEMENT OF CHANGES IN STOCKHOLDER'S EQUITY
FOR THE YEAR ENDED DECEMBER 31, 2021**

	<u>Common Stock</u>	<u>Paid-in Capital</u>	<u>Retained Earnings</u>	<u>Treasury Stock</u>	<u>Total</u>
Stockholder's Equity, January 1, 2021	\$ 41,802	\$ 400,000	\$ 16,886,198	\$ (725,000)	\$ 16,603,000
Net Income	-	-	5,487,334	-	5,487,334
Distributions to Stockholder	<u>-</u>	<u>-</u>	<u>(2,385,000)</u>	<u>-</u>	<u>(2,385,000)</u>
Stockholder's Equity, December 31, 2021	<u>\$ 41,802</u>	<u>\$ 400,000</u>	<u>\$ 19,988,532</u>	<u>\$ (725,000)</u>	<u>\$ 19,705,334</u>

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
STATEMENT OF CASH FLOWS
FOR THE YEAR ENDED DECEMBER 31, 2021**

CASH FLOWS FROM OPERATING ACTIVITIES

Net Income	\$ 5,487,334
Adjustments to reconcile net income to net Cash Provided from (used by) Operating Activities:	
Depreciation and Amortization Expense	376,549
Deferred Rent	(77,825)
Change in Operating Assets and Liabilities:	
Accounts Receivable, net	1,257,336
Unbilled Revenue	68,291
Vendor Prepayments	(807,564)
Prepaid and Other Current Assets	7,061
Security Deposits	(4,551)
Accounts Payable	(1,695,824)
Accrued Expenses	(95,439)
Other Current Liabilities	(8,611)

NET CASH PROVIDED FROM OPERATING ACTIVITIES 4,506,757

CASH FLOWS FROM INVESTING ACTIVITIES

Net Additions to Fixed Assets	<u>(613,097)</u>
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NET CASH USED BY INVESTING ACTIVITIES (613,097)

CASH FLOWS FROM FINANCING ACTIVITIES

Repayments of Capital Leases	(7,464)
Repayments of Bank Debt	(322,012)
Distributions to Stockholder	<u>(2,385,000)</u>

NET CASH USED BY FINANCING ACTIVITIES (2,714,476)

NET INCREASE IN CASH AND CASH EQUIVALENTS **1,179,184**

CASH AND CASH EQUIVALENTS - BEGINNING OF YEAR 2,808,927

CASH AND CASH EQUIVALENTS - END OF YEAR **\$ 3,988,111**

Cash Paid During The Year For:

Interest	\$ 82,629
State Tax Expense	<u><u>\$ 424,334</u></u>

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2021**

NOTE 1 NATURE OF OPERATIONS

Matrix New World Engineering, Land Surveying and Landscape Architecture, P.C. ("Matrix" or the "Company") provides consulting services in the fields of environmental engineering, geotechnical surveying, transportation infrastructure, ecology management, marine and waterfront engineering, water resource development, land surveying, land development, and landscape architecture. Clients of the Matrix include engineering firms, local government agencies and private industry, including real estate developers. Projects are primarily located in the Northeast, Southwest and Gulf Coast regions of the United States. The length of the projects varies from approximately one month to several years.

Matrix is a certified Disadvantaged Business Entity and Woman-Owned Business Entity allowing the Company to be awarded certain contracts with a priority over other firms without these certifications.

NOTE 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting

The financial statements of the Company are maintained in conformity with the accrual method of accounting and accounting principles generally accepted in the United States of America.

Use of Estimates

The preparation of financial statements, in conformity with accounting principles accepted in the United States of America ("U.S. GAAP") requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of revenues and expenses during the period. Actual results could differ from those estimates. Significant estimates used in the preparation of these financial statements include the estimated useful lives of depreciable assets and allowance for doubtful accounts.

Cash and Cash Equivalents

The Company considers all highly liquid debt instruments purchased with maturity of three months or less to be cash equivalents.

Accounts Receivable

Accounts receivable are stated at the amount the Company expects to collect from outstanding balances. The Company maintains allowances for doubtful accounts for estimated losses resulted from the inability of its customers to make required payments. Management considers the following factors when evaluating the collectability of specific customer accounts; customer creditworthiness, past transaction history with the customer, current economic industry trends, and changes in customer payments terms when determining the collectivity of specific customer accounts. Based on management's assessment, the Company provides for estimated uncollectible amounts through a charge to earnings and a credit to a valuation allowance account. Balances that remain outstanding after the Company has made reasonable collection efforts are written off through a charge to the valuation allowance account and a credit to the accounts receivable account.

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2021**

NOTE 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

Property and Equipment

Acquisitions of property and equipment are recorded at cost, less accumulated depreciation. Improvements and replacements are capitalized. Maintenance and repairs which do not improve or extend the lives of the respective assets are expensed as incurred. When assets are sold or retired, their costs and related depreciation are removed from the accounts and any gain or loss from disposition is reported on the statement of income.

Depreciation is provided by using straight-line or accelerated method over the estimated useful lives of the related assets (3-12 years).

Long-lived Assets

The Company reviews the recoverability of its long-lived assets on a periodic basis in order to identify events or changes in circumstances that may indicate a possible impairment in accordance with the provisions of FASB ASC 360, *Accounting for the Impairments or Disposal of Long-Lived Assets*. The assessment for potential impairments is based primarily on the Company's ability to recover the unamortized balance of its long-lived assets from expected future cash flows from operations on an undiscounted basis. The Company believes that no such events or changes have occurred.

Income Taxes

The Company has elected, with the consent of its stockholders, to be treated under the provisions of Subchapter S of the Internal Revenue Code and certain states that allow such provision. Under those provisions, the Company is not liable for federal or state corporation income taxes on its taxable income. Instead, the stockholder is liable for individual income taxes on their share of the Company's taxable income. Accordingly, no federal income tax provision or liability has been included in the financial statements.

In 2021, the Company elected to participate in the New Jersey and New York Pass-Through Alternative Income Tax provisions, which allow pass-through entities to pay tax due on the owner's share of distributive proceeds. For year ended December 31, 2021, the amount paid for this tax was \$408,574 and is included in the provision for state taxes.

The Company's income tax filings are subject to audit by federal and state taxing authorities. The Company accrues a liability for any uncertain tax benefits and any related penalties and interest. On December 31, 2021, no such asset or liability was recognized. The Company's open audit periods are 2018 through 2021.

Advertising

Advertising and Marketing costs are expensed as incurred. Expenses for the year ended December 31, 2021 were \$181,529.

Concentrations

On December 31, 2021, cash balances at two financial institutions exceeded the federally insured limit of \$250,000 by \$3,714,907. Management monitors regularly the financial condition of the banking institutions, along with their balances in cash and cash equivalents and keeps this potential risk to a minimum.

For the year ended December 31, 2021, one customer accounted for approximately 10.4% of the Company's gross professional fees. As of December 31, 2021, there were no accounts receivable concentrations. Generally, the Company's policies do not require collateral to support accounts receivable.

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITURE, P.C.
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2021**

NOTE 3 REVENUE RECOGNITION

Revenue Recognition Policy

The Company derives its revenue primarily from providing contracted engineering services. Revenues are recognized on a monthly basis when services and direct costs, if applicable, are provided. Costs incurred to obtain a contract are expenses as incurred when the amortization period is less than one year.

Disaggregation of Revenue From Contracts with Customers

The Company's revenues are based on the timing of satisfaction of performance obligations at a point in time, typically at the completion of a monthly accounting cycle.

Performance Obligations

For performance obligations related to providing engineering services, control transfers to the customer at a point in time, typically once the services and related direct costs are provided during a month, or more frequently, if the contract contains such a provision.

Payment terms are primarily due upon receipt.

NOTE 4 CONTRACT BALANCES

Contract Assets and Liabilities

Contract Assets include unbilled amounts typically resulting from revenue under contracts when the revenue recognized exceeds the amount billed to the customer. Since the company typically recognized revenue when services are provided, there are no contract liabilities.

Contract balances at the beginning and ending of the year were:

	<u>Beginning of Year</u>	<u>End of Year</u>
Contract Receivables	<u>\$ 16,059,488</u>	<u>\$ 14,802,790</u>
Retainages	<u>\$ 238,192</u>	<u>\$ 237,554</u>
Contract Assets	<u>\$ 4,126,597</u>	<u>\$ 4,058,306</u>

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITURE, P.C.
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2021**

NOTE 5 PROPERTY AND EQUIPMENT

The property and equipment on December 31, 2021 is as follows:

Computer Equipment	\$ 544,928
Office Equipment	5,239
Field Equipment	1,051,673
Leasehold Improvements	504,516
Furniture and Fixtures	205,449
Software	106,381
Vehicles	670,125
Property, Plant and Equipment Cost	3,088,311
Less: Accumulated Depreciation	(2,048,235)
Total Net Value	<u><u>\$ 1,040,076</u></u>

Depreciation expense for the year ended December 31, 2021 was \$376,549.

NOTE 6 DEBT

Line of Credit

The Company has a \$2,000,000 working capital line of credit with a financial institution maturing in December 2024. The interest rate on the line of credit is the bank's five-year cost of funds, which at December 31, 2021 is 4.59%. The Company has pledged its assets as collateral for the line of credit. The stockholder, an officer of the Company and an affiliated entity are also guarantors of the line of credit. At December 31, 2021, there was no outstanding balance on the line of credit.

Term Loan

In December 2019, the Company entered into a term loan agreement with a bank for \$1,690,000. The loan is payable in monthly principal installments of \$24,949, plus interest at 4.9%, and matures in December 2024. The loan secured by the assets of the Company and personally guaranteed by the Company's stockholder, an officer of the Company, and an affiliated entity. The loan agreement contains certain covenants which management believes the Company has met at December 31, 2021 and for the year then ended. At December 31, 2021, the balance outstanding on the loan was \$1,060,797.

Maturities on the loan at December 31, 2021 are as follows:

2022	\$ 299,387
2023	299,387
2024	462,023
Total	<u><u>\$ 1,060,797</u></u>

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2021**

NOTE 7 RETIREMENT PLAN

The Company adopted a standardized 401(k) Plan for all employees. Participants may contribute up to 100% of their compensation up to the federal maximum limit. The Company elected to make a matching contribution for the year ended December 31, 2021 of \$523,152, which was included in the operating expenses

NOTE 8 CAPITAL LEASES

The Company leases automobiles and certain equipment under agreements that are classified as capital leases, which expire periodically through 2025. Automobiles and equipment under capital leases are amortized over the useful lives of the assets and amortization expense is included in the depreciation expense. The obligations are amortized over the terms of the lease.

Future minimum payments under capital lease obligations are as follows:

	<u>Equipment</u>	<u>Automobiles</u>	<u>Total</u>
Current - 2022	\$ 97,378	\$ 122,769	\$ 220,147
Long-Term			
2023	91,065	80,709	171,774
2024	44,777	54,552	99,329
2025	7,055	51,809	58,864
	<u>142,897</u>	<u>187,070</u>	<u>329,967</u>
Total	<u>\$ 240,275</u>	<u>\$ 309,839</u>	<u>\$ 550,114</u>

NOTE 9 OPERATING LEASES

The Company conducts its operations from facilities that are leased under noncancellable operating leases which expire periodically through 2026. Rent expense under these leases was \$1,108,216 for the year ended December 31, 2021.

The Company is also obligated under operating leases for automobiles and equipment which expire through 2025. Expense under these leases was \$65,851 for the year ended December 31, 2021.

Future lease obligations under these leases at December 31, 2021 are as follows:

	<u>Real Estate</u>	<u>Automobiles & Equipment</u>	<u>Total</u>
2022	\$ 1,007,865	\$ 135,878	\$ 1,143,743
2023	544,625	102,747	647,372
2024	351,316	46,533	397,849
2025	168,773	7,125	
2026	33,663	-	33,663
Total	<u>\$ 2,106,242</u>	<u>\$ 292,283</u>	<u>\$ 2,398,525</u>

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITURE, P.C.
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2021**

NOTE 10 RELATED-PARTY TRANSACTIONS

An affiliated entity provides construction services for the Company and the Company provides services to the affiliate. The financial statements for the year ended December 31, 2021 include revenue of \$488,086, and cost of services of \$6,818,299 from/to the affiliate. At December 31, 2021, accounts receivable and accounts payable include of \$420,813 and \$141,087, respectively, were from/to the affiliate.

NOTE 11 SUBSEQUENT EVENTS

Management has evaluated subsequent events through May 2, 2022, the date the financial statements were available to be issued.

**MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND
LANDSCAPE ARCHITECTURE, P.C.
SUPPLEMENTAL SCHEDULE - OPERATING EXPENSES
FOR THE YEAR ENDED DECEMBER 31, 2021**

Salaries	\$ 7,762,211
Officer's Salary	578,385
Payroll Taxes	1,451,909
Employee Benefits	1,620,859
Pension Expense	523,152
Advertising and Marketing	181,529
Information Technology & Computer Expenses	705,076
Office Supplies and Expense	56,446
Postage & Delivery	31,252
Dues and Subscriptions	47,178
Printing and Reproduction	135,433
Licenses and Permits	66,047
Insurance	706,892
Legal & Accounting Fees	248,392
Other Professional Fees	530,354
Occupancy Expenses	1,180,379
Payroll Service	16,207
Repairs & Maintenance	70,178
Telephone	296,854
Seminars & Training	62,062
Vehicle Expense	107,872
Travel	122,737
Bank Charges	9,783
Meals & Entertainment	80,390
Charitable Contributions	21,000
Bad Debt Recoveries, net of expense	(230,641)
TOTAL OPERATING EXPENSES	<u><u>\$ 16,381,936</u></u>

See independent accountants' review report on supplementary information

SECTION 6

ACORD™

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

5/18/2023

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 Park 80 West, Plaza Two 250 Pehle Avenue, Suite 400 Saddle Brook, NJ 07663	CONTACT NAME: Minal Patel PHONE (A/C, No, Ext): 201 845-6600 FAX (A/C, No): E-MAIL ADDRESS: Minal.Patel01@MarshMMA.com														
INSURED Matrix New World Engineering, Land Surveying and Landscape Architecture, PC 26 Columbia Tpk Florham Park, NJ 07932	<table border="1"> <thead> <tr> <th>INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A : Nautilus Insurance Company</td> <td>17370</td> </tr> <tr> <td>INSURER B : Great Divide Insurance Company</td> <td>25224</td> </tr> <tr> <td>INSURER C : Allmerica Financial Alliance Insurance</td> <td>10212</td> </tr> <tr> <td>INSURER D : Twin City Fire Ins. Co.</td> <td>29459</td> </tr> <tr> <td>INSURER E : Hanover Ins. Co.</td> <td>22292</td> </tr> <tr> <td>INSURER F :</td> <td></td> </tr> </tbody> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A : Nautilus Insurance Company	17370	INSURER B : Great Divide Insurance Company	25224	INSURER C : Allmerica Financial Alliance Insurance	10212	INSURER D : Twin City Fire Ins. Co.	29459	INSURER E : Hanover Ins. Co.	22292	INSURER F :	
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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	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR ☒ Pollution Liability ☒ Contractual Liab. GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☒ PRO-JECT ☐ LOC OTHER:	Y	Y	ECP201734117	03/02/2023	03/02/2024	EACH OCCURRENCE \$2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$300,000 MED EXP (Any one person) \$5,000 PERSONAL & ADV INJURY \$2,000,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS - COMP/OP AGG \$2,000,000 Pollution \$2M Per Claim
C	AUTOMOBILE LIABILITY ☒ ANY AUTO OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☒ HIRED AUTOS ONLY ☒ NON-OWNED AUTOS ONLY	Y	Y	AWY793819919	03/02/2023	03/02/2024	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	UMBRELLA LIAB ☒ OCCUR EXCESS LIAB ☐ CLAIMS-MADE DED RETENTION \$	Y	Y	FFX201734217	03/02/2023	03/02/2024	EACH OCCURRENCE \$10,000,000 AGGREGATE \$10,000,000 \$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? ☒ Y / ☒ N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		Y	WCA201734318	03/02/2023	03/02/2024	☒ PER STATUTE ☐ 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
A	Professional Liab			ECP201734117	03/02/2023	03/02/2024	\$2,000,000 occ/agg \$25,000 Retention

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

Coverage: EPLI and D&O

Insurer D: Twin City Fire Ins. Co.

Policy Number: 13KB0372807

Policy Term: 03/01/2023 - 03/01/2024

Limit: \$5,000,000

(See Attached Descriptions)

CERTIFICATE HOLDER

CANCELLATION

Evidence of Insurance for
 Matrix New World Engineering,
 Land Surveying and Landscape
 Architecture, P.C.

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

Wm. C. Cilento

DESCRIPTIONS (Continued from Page 1)

Coverage: Valuable Papers

Insurer E: Hanover Ins. Co.

Policy Number: RHY502670716

Policy Term: 03/02/2023 - 03/02/2024

Limit: \$500,000 any one occurrence / \$1,000,000 Aggregate

Coverage: Workers' Compensation

Insurer A: Nautilus Insurance Company

Policy Number: WCA201734418 (AZ)

Policy Term: 03/02/2023 - 03/02/2024

Limits: \$1M/\$1M/\$1M

MATRIX **NEW** WORLD

Engineering Progress



STATE-SUPPLIED PRICE SHEETS IDA DESIGN AND ENGINEERING SERVICES

SUBMITTED TO

State of New Jersey
Department of Community Affairs
Division for Disaster Recovery and Mitigation, 6th Floor
101 South Broad Street
Trenton, NJ 08625
Attention: Laurence Johnson, State Contract Manager

SUBMITTED BY

**Matrix New World Engineering, Land Surveying
and Landscape Architecture, PC**
26 Columbia Turnpike, 2nd Floor
Florham Park, NJ 07932
P: 973.240.1800 F: 973.240.1818

SUBMITTED DATE

December 8, 2023

DELIVERABLE DESCRIPTION / EXAMPLES SHEET

Basic Service Deliverables		
Fixed Price Service Category	Fee Basis	Adjustment Factors
Lot Survey (including property identification, legal description, boundaries, topography, utility locations, major site characteristics)	typical suburban 1/4 acre parcel with existing structures	increase / decrease based on \$ per square foot
Elevation Certificate	typical suburban 1/4 acre parcel with existing structures	increase / decrease based on \$ per square foot
Foundation Design	35' x 50 foot existing building footprint to be elevated on new CMU foundation W/ concrete footing	increase / decrease based on foundation type (i.e. deep foundation vs. standard shallow footing)
Geotechnical Analysis (include 2 soil samples w/ testing)	typical suburban 1/4 acre parcel with existing structures	increase / decrease based on \$ per square foot & increase / decrease based on number of soil borings
Plot Plan	for building elevation including stairs, walkway, relocated site utilities, etc.	n/a
Zoning Application (Submit Zoning Permit)	typical zoning submission including zoning analysis and compliance verification	
Foundation Location Survey	existing foundation / footing investigation, analysis and documentation of existing conditions	
Soil Erosion Plan & application	submittal to soils control commission, including paying application fees (either waiver request or full sediment control plans & application)	
Cribbing design for building Elevation	cribbing plans including the placement of cribs, temporary supports, shoring, & lifting beams to elevate rectangular structure.	
Wind Storm Engineering Assessment & Retrofit	including investigation, and documentation for building permit application	
Building utility modification & relocation plans	including building utilities and appliances, e.g. water heater, furnace, electrical panels, etc. & associated piping, ductwork, and wiring.	
Design Plans for Rehabilitation	two story home with full basement in need of moderate repairs on all levels, including roof.	
New Home Design Plans	new home on existing lot within existing footprint for a 2,000 square foot home	increase / decrease based on \$ per 500 sq.ft.
Site Drainage Design	including re-routing existing storm water runoff, by re-grading, introduction of storm water management structures, (drywell, yard drain, swale, etc.) as required to mitigate water intrusion to the building	

Additional Services		
Fixed Price Service Category	Fee Basis	Adjustment Factors
Zoning Variance	making variance request submission, including notices, filing fees, application, & expert witness testimony at public hearing.	
Final As-Built (post construction)	As required by municipal code official to document field changes that occurred during construction.	
unspecified additional services	Provide the basis for any additional services that may be requested and not listed in any of the above deliverables.	

IDA DESIGN AND ENGINEERING SERVICES RATE SCHEDULE

Base Period (EST. 1/1/2024 – 12/31/2024)

Name of Firm: Matrix New World Engineering.

Instructions:

Give a rate (in whole dollars no cents please) below for each of the years listed. Please refer to the RFP for a description of each of the deliverable types. Your proposal may be considered unresponsive if you leave blanks. Provide a rate for ALL deliverables even though you may not at the present time perform the service in-house.

FIXED PRICE DELIVERABLE CATEGORY	PROPOSED RATE	ADJUSTMENT FACTOR
Lot Survey	\$3,500.00	+/- \$0.30 / SF
Elevation Certificate	\$1,950.00	+/- \$0.30 / SF
Foundation Design	\$3,500.00	+ \$1,500 for piles
Geotechnical Analysis (include 2 soil samples w/ testing) *	* \$9,000.00	+ \$7,000 per day
Plot Plan	\$3,000.00	
Zoning Application (Submit Zoning Permit)	\$3,000.00	
Foundation Location Survey	\$1,400.00	
Soil Erosion Plan & application	\$4,000.00	
Cribbing design for building Elevation	\$3,000.00	
Windstorm Engineering Assessment & Retrofit	\$3,000.00	
Building utility modification & relocation plans	\$1,500.00	
Design Plans for Rehabilitation **	** \$4,500.00	
New Home Design Plans **	** \$12,500.00	+/- \$3,500 / 500 SF
Site Drainage Design	\$3,500.00	
Zoning Variance	\$9,000.00	
Final As-Built (post construction)	\$2,500.00	
unspecified additional services	T&M	

Matrix Notes:

* Geotechnical investigation is based on 1 day of drilling with up to 2 borings over the course of 1 day. No test pits or environmental testing are planned. Test pits for foundation depth or configuration measurements are not included as part of this scope nor as part of the Foundation Location Survey. Should these items be desired, Matrix can provide updated costs. The adjustment factor costs are based on additional days of drilling as warranted to complete the scope.

** Per Matrix's proposal, the costs associated with Design Plans for Rehabilitation or New Home Design Plans are for anticipated Structural Engineering design elements only. Though a licensed Professional Engineer is qualified to provide architectural services for single family residences, Matrix anticipates that partnering with another approved consultant specializing in Architecture would be the most beneficial to the DCA for a comprehensive expert design.

IDA DESIGN AND ENGINEERING SERVICES RATE SCHEDULE

Base Period (EST. 1/1/2025 – 12/31/2025)

Name of Firm: Matrix New World Engineering.

Instructions:

Give a rate (in whole dollars no cents please) below for each of the years listed. Please refer to the RFP for a description of each of the deliverable types. Your proposal may be considered unresponsive if you leave blanks. Provide a rate for ALL deliverables even though you may not at the present time perform the service in-house.

FIXED PRICE DELIVERABLE CATEGORY	PROPOSED RATE	ADJUSTMENT FACTOR
Lot Survey	\$3,675.00	+/- \$0.32 / SF
Elevation Certificate	\$2,050.00	+/- \$0.32 / SF
Foundation Design	\$3,675.00	
Geotechnical Analysis (include 2 soil samples w/ testing)	* \$9,450.00	+ \$7,350 per day
Plot Plan	\$3,150.00	
Zoning Application (Submit Zoning Permit)	\$3,150.00	
Foundation Location Survey	\$1,470.00	
Soil Erosion Plan & application	\$4,200.00	
Cribbing design for building Elevation	\$3,150.00	
Windstorm Engineering Assessment & Retrofit	\$3,150.00	
Building utility modification & relocation plans	\$1,575.00	
Design Plans for Rehabilitation	** \$4,725.00	
New Home Design Plans	** \$13,125.00	+/- \$3,675 / 500 SF
Site Drainage Design	\$3,675.00	
Zoning Variance	\$9,450.00	
Final As-Built (post construction)	\$2,625.00	
unspecified additional services	T&M	

IDA DESIGN AND ENGINEERING SERVICES RATE SCHEDULE

Base Period (EST. 1/1/2026 – 12/31/2026)

Name of Firm: Matrix New World Engineering.

Instructions:

Give a rate (in whole dollars no cents please) below for each of the years listed. Please refer to the RFP for a description of each of the deliverable types. Your proposal may be considered unresponsive if you leave blanks. Provide a rate for ALL deliverables even though you may not at the present time perform the service in-house.

FIXED PRICE DELIVERABLE CATEGORY	PROPOSED RATE	ADJUSTMENT FACTOR
Lot Survey	\$3,860.00	+/- \$0.34 / SF
Elevation Certificate	\$2,150.00	+/- \$0.34 / SF
Foundation Design	\$3,860.00	
Geotechnical Analysis (include 2 soil samples w/ testing)	* \$9,925.00	+ \$7,720 per day
Plot Plan	\$3,300.00	
Zoning Application (Submit Zoning Permit)	\$3,300.00	
Foundation Location Survey	\$1,550.00	
Soil Erosion Plan & application	\$4,400.00	
Cribbing design for building Elevation	\$3,300.00	
Windstorm Engineering Assessment & Retrofit	\$3,300.00	
Building utility modification & relocation plans	\$1,650.00	
Design Plans for Rehabilitation	** \$4,960.00	
New Home Design Plans	** \$13,780.00	+/- \$3,860 / 500 SF
Site Drainage Design	\$3,860.00	
Zoning Variance	\$9,925.00	
Final As-Built (post construction)	\$2,760.00	
unspecified additional services	T&M	