



ENGINEERS
ARCHITECTS
MEP / ENERGY SERVICES
DRONE SERVICES
LITIGATION SUPPORT
RESTORATION SPECIALISTS



Connecticut Delaware Florida Maryland New Jersey New York Pennsylvania Virginia Washington, D.C.



THE FALCON DIFFERENCE

BUSINESS FOCUS & EFFICIENT PROJECT MANAGEMENT

Our project management and financial overview process allows us to consistently deliver projects on schedule and within your budget. We are able to minimize our clients' expenditures while maximizing savings and return on investment.

SUPERIOR RESULTS

Our staff holds the highest level of skillsets and certifications for any job, which in turn yields a higher-level of craftsmanship.

CREATIVITY, FLEXIBILITY & INGENUITY

Having a seasoned, diverse staff with many different backgrounds allows us to customize solutions for specific situations creatively and effectively solving problems as they arise.

ACTIVELY ENGAGED SENIOR MANAGEMENT

Our Principals maintain a visible role on projects to ensure that relevant issues will be anticipated and resolved in a timely fashion.

ACCESSIBLE STAFF & UNPARALLELED PERSONAL ATTENTION

Our clients have peace of mind knowing we are "always on the job" 24 hours a day, 7 days a week. We are personally available to address any issues or emergencies that may arise while monitoring your projects progress.

RESPONSIVE, PROACTIVE & TIMELY COMMUNICATION

We are diligent about keeping clients informed regarding the status of all projects.

EXCEPTIONAL SERVICES

The Falcon Group is a unique, full-service Engineering, Architectural & Energy Consulting firm. Falcon's primary focus is on restoring and evaluating existing facilities ranging from site, building envelope and energy improvements. Our full-service capabilities focus on your building's specific needs. Falcon's mission is to ensure each of our clients are held at the highest level of individualized service.

Falcon takes pride in our work to ensure that our client expectations are exceeded every single time. We look forward to partnering with you on your next successful project.

STAFF CREDENTIALS

APRA – Certified Professional Reserve Analysts

BCxA – Building Commissioning Association

AEE – CEM / Association of Energy Engineers

CPSI – Certified Playground Safety Inspector

HHS – High-Rise / Hazardous Specialists, Building & Fire Inspectors

ICC – International Code Council Certified Building & Mechanical Inspectors

ICS – Industrial / Commercial Specialists, Building & Fire Inspectors

LEVEL I – Certified Infrared Thermographers

LEED AP – Leadership in Energy & Environmental Design Accredited Professionals

Licensed Landscape Architect

LLS – Licensed Land Surveyor

ME – Licensed Mechanical Engineers in NJ, NY, PA

NCARB – National Council of Architectural Registration Boards

NFPA – Fire Prevention Inspector

NJ – New Jersey Special Inspectors Certification for EIFS (Exterior Insulation & Finish System) & Concrete

NYC – Class 2 Special Inspection Agency

PE – Licensed Professional Engineers in CT, DC, DE, FL, MD, NJ, NY, PA, SC, VA, VT

Post-Disaster Safety Assessment Evaluators (Architecture & Engineering)

RA – Registered Architect, DE, FL, MD, NJ, NY, PA, WDC, VA, FL

RCS – Licensed Residential Construction Specialists / Building Inspectors

RRC – Registered Roof Consultants with the Roof Consultants Institute

RRO – Registered Roof Observer

RS – Community Associations Institute Certified Reserve Specialists

SAP Evaluator – Safety Assessment Program



DESIGN PLANS & SPECIFICATIONS

Clients expect customized, well conceived design plans and specifications for initial, as well as remedial, site and building-related construction projects. We take great pride in ensuring that all our recommendations are practical, economically feasible and efficient.

- Building Cladding / Waterproofing
- EIFS / Stucco Remediation
- Curtain Walls
- Roof Systems
- Building Foundation Waterproofing
- Fire Reconstruction
- Parking Garage Design & Renovation
- Recreational Facilities
- Retaining Walls
- Sidewalk Vaults
- Site / Building Capital Improvements
- Asphalt Roadway / Driveway / Parking Area Improvements
- Site Drainage Improvements
- Stormwater Analysis
- Soils Investigation / Subsurface Disposal
- Mechanical, Electrical & Plumbing Design
- Water Distribution & Plumbing Systems
- HVAC (Boilers, Chillers, Cooling Towers)

FAÇADE INSPECTION

With years of experience gained from working with a variety of building types and cladding systems, we have developed specialized expertise in investigating and evaluating aging building façades, designing appropriate, long-lasting economical repairs and providing the necessary oversight to ensure proper construction.

- 🌀 Project Planning, Budgeting & Management
- 🌀 Evaluation of Thermal & Moisture Concerns
- 🌀 Non-destructive Test Methods to Identify Concealed Defects
- 🌀 Identification of Deteriorated Components & Potentially Unsafe Conditions
- 🌀 Development of Repair & Bid Plans
- 🌀 Facilitate Compliance with Local Building Department Requirements
- 🌀 Specifications for Building Repair & Maintenance
- 🌀 Construction Administration & Inspection
- 🌀 Façade Inspection Safety Program (FISP) (Formally Know as Local Law 11)





ROOF CONSULTING

Our multi-disciplinary in-house staff is unique in the roof consulting field. We are able to look beyond just the roof to understand the entire envelope, structure and mechanical systems of a building, allowing us to better identify the most appropriate roofing repair and replacement strategies.

- Roof Inspections
- Storm Damage Inspections
- Insurance Claim Inspections
- Moisture Surveys
- Project Management
- Plans & Specifications for Roof Replacement & Repairs
- Preventive Maintenance
- Cool Roof & Green Roof Designs

BUILDING CONDITION ASSESSMENTS

Sites, buildings and their systems require ongoing monitoring and maintenance to ensure that they fulfill their designed purpose. Weather, age, natural disaster, poor construction, and substandard materials all contribute to deterioration. We offer a complete range of testing services to anticipate and diagnose potential and current problems.

- Pavement Coring
- Concrete Coring & Testing
- Mold Testing
- EIFS / Stucco Moisture Testing
- Lighting Analysis
- Temperature
- Water Pressure Evaluation
- Sound Transmission
- Roofing Moisture Surveys
- Structural Movement Monitoring
- Window, Siding, Roofing, Insulation Destructive & Non-destructive Testing & Analysis
- HVAC Systems
- Piping Condition





ALTERATIONS

From conception to creation, we provide inspired architecture. Our well-conceived designs are strategically sculpted for function but aesthetically shaped for beauty. We specialize in blending new with the old and our clients receive customized services and personalized attention from a licensed architect ensuring a high-quality design tailored to their needs.

- Design Development
- Additions / Alterations
- Office & Retail
- Tenant Fit Out
- ADA Analysis & Compliance Renovations
- Change of Use
- Building Code Review
- Roof Deck Conversion
- Forensic Analysis
- Fire & Water Damage Reconstruction
- Historic Preservation
- Lobby & Corridor Renovation

STRUCTURAL & CIVIL ENGINEERING

The Falcon Group uses classical design methods, along with current software, to analyze existing structures and design new structural elements and systems. We have experience in all types of structural systems, specializing in the evaluation, analysis and design of the repair, rehabilitation and adaptive reuse of existing structures.

- Reinforced & Plain Concrete, Composite Slab, Clay Tile & Brick Arch, Metropolitan Catenary Slab, Sawn, Engineered Wood, Stone, Steel & Cast Iron
- Foundation Evaluation for Increased Loads & Design for New Construction & Additions
- Evaluation of Structural Capacity & Effects of Steel Corrosion, Concrete Deterioration & Decay of Wood Members
- Sidewalk Vault Evaluation & Restoration Design
- Retaining Wall Evaluation & Design
- Evaluation & Design of Mechanical Equipment Supports & Dunnage
- Design of Structural Repairs & Strengthening Using Traditional & Modern Approaches
- Wind & Seismic Analysis
- Design & Inspection of Underpinning & Excavating Support
- Signed & Sealed Calculations for Façade Attachments & Fenestration





CAPITAL NEEDS PLANNING / CAPITAL RESERVE FUND ANALYSIS

The primary purpose of a Capital Needs Plan is to offer recommendations as to the amount of money a community, building or other organization should set aside on a yearly basis for the future replacement or major refurbishment of their commonly owned elements. A properly funded reserve program is essential to keeping a community's physical assets in prime condition. We recommend updating your Capital Needs Plan every three (3) years.

Value

- Sustain / Increase Property Value By Upholding Exterior Appearances Through Timely Repair or Replacement of Common Elements
- Facilitating Project Efficiency & Cost Effectiveness
- Minimize Disruptions & Inconveniences
- Reduce Member Dissatisfaction Associated with the Passage of Large or Sudden Assessments

Process

- Inspection & Testing
- Evaluation for Repair / Replacement
- Life Cycle Analysis
- Develop Realistic Repair / Replacement Plans & Budgets
- Prepare a Comprehensive Report in Accordance with CAI & APRA Standards & Guidelines

MEP / ENERGY SERVICES

Our expert team of licensed and accredited engineers and architects provide the most comprehensive services in our industry for assessment, design services and project administration. We offer full-service mechanical, electrical and plumbing (MEP) designs and specifications, inspections, troubleshooting, building commissioning and energy studies.

- Energy Audits
- Mechanical, Electrical, Plumbing Analysis / Design
- Building Modeling & Simulation Commissioning
- Sub-metering Analysis / Design
- Testing, Adjusting & Balancing
- Renewable Energy
- Feasibility Studies
- Life Cycle Evaluations
- Control System Analysis / Design
- Energy Rebate & Incentive Analysis
- Solar & Alternative Energy Design
- Benchmarking
- Local Law 87/88
- Local Law 43





EXPEDITING

Falcon will coordinate and facilitate the preparation of drawings, plan filings, necessary forms and supporting documentation as required to obtain approvals / resolutions from local municipal agencies.

- New York City Department of Buildings
- Landmarks Preservation Commission
- Fire Department of New York
- Department of Transportation
- Metropolitan Transportation Authority
- ECB & DOB Violation Hearings
- New York City Department of Parks & Recreations
- Mayor's Office for People with Disabilities
- New York City Department of Finance
- The Department of Environmental Protection
- The Board of Standard Appeals
- City Planning Commission
- Public Design Commission

DRONES

Aerial photo, videography and imaging services elevates projects to new heights, ensuring inspection and analysis happen faster. Our industrial-grade drones deliver the newest, most innovative aerial imaging solutions. As pioneers in Droneengineering, our expert engineers operating the drones know what information to capture and where to focus.

- Inspect Roofs, Façades & Vegetation
- Scanning for Timely Construction Updates
- Promotion & Website Enhancement
- Supporting Data for Forensic Engineering
- New Construction & Renovation Progress Monitoring & Documentation
- Disaster Recovery Surveying for Insurance Claims





LITIGATION SUPPORT

For virtually any type of property or project, Falcon's Litigation Department provides a variety of analytic and related services to assist clients in obtaining successful litigation outcomes with a proven track record of recoveries exceeding \$100 million for our clients. Our expert engineering and architecture staff is on hand to partner with our litigators.

- Developer Transition / Turnover
- Construction Defect Reports & Claims
- Infrared Imaging
- Storm Damage Assessment & Insurance Claims
- Cost to Cure Estimate
- Light & Air Studies
- Material Defect Claims
- Expert Witness / Professional Testimony
- Mediation / Arbitration Services

NEW YORK CITY SPECIAL INSPECTIONS

In NYC it is imperative that Special Inspections are conducted during the construction phase of applicable projects when required by code and / or specified by the design professional in order to verify that the work is being done in accordance with code, approved plans and specifications. Special Inspections can only be performed by certified Special Inspectors. The Falcon Group is certified to perform in the following fields:

- 👉 Structural Steel - Welding
- 👉 Structural Steel - Details
- 👉 Structural Steel - High Strength Bolting
- 👉 Structural Cold - Formed Steel
- 👉 Concrete - Cast-in-place
- 👉 Concrete - Precast
- 👉 Concrete - Prestressed
- 👉 Masonry
- 👉 Wood Installation of High Load Diaphragms
- 👉 Wood Installation of Metal-plate-connected Trusses
- 👉 Wood Installation of Prefabricated I-joists
- 👉 Subgrade Inspection
- 👉 Subsurface Conditions - Fill Placement & In-place Density
- 👉 Subsurface Investigations (Borings / Test Pits)
- 👉 Deep Foundation Elements
- 👉 Helical Piles (BB#2014-020)
- 👉 Vertical Masonry Foundation Elements
- 👉 Wall Panels, Curtain Walls & Veneers
- 👉 Sprayed Fire Resistant Materials
- 👉 Mastic & Intumescent Fire-resistant Coatings
- 👉 Exterior Insulation & Finish Systems (EIFS)
- 👉 Smoke Control Systems
- 👉 Mechanical Systems
- 👉 Fuel-oil Storage & Fuel-oil Piping Systems
- 👉 Structural Stability - Existing Buildings
- 👉 Excavations - Sheeting, Shoring & Bracing
- 👉 Underpinning
- 👉 Private On-site Storm Water Drainage Disposal Systems & Detention Facilities Installation
- 👉 Sprinkler Systems
- 👉 Standpipe Systems
- 👉 Heating Systems
- 👉 Fire-resistant Penetrations & Joints
- 👉 Flood Zone Compliance
- 👉 Emergency & Standby Power Systems
- 👉 Post-installed Anchors (BB# 2014-018, 2014-019)





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