



Proposal For  
**Town of Barrington, New Hampshire**  
Request for Qualifications for  
Engineering Services



**Prepared By:**

Michael A. Malynowski, PE  
Allen & Major Associates, Inc.  
400 Harvey Road  
Manchester, NH 03103  
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## FIRM CONTACTS

**Main Point of Contact:**

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(603) 627-5500 Ext. 9624

[mmalynowski@allenmajor.com](mailto:mmalynowski@allenmajor.com)

**Contract Administrator/Principal:**

**Robert P. Clarke, PLA, ASLA**

400 Harvey Road

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(603) 627-5500 Ext. 9521

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February 1, 2021

Town of Barrington  
Conner MacIver, Town Administrator  
333 Calef Highway  
PO Box 660  
Barrington, NH 03825

**RE: RFQ Qualifications for Barrington Engineering Services**

Dear Mr. MacIver,

Allen & Major Associates, Inc. (A&M) is pleased to submit the following response to your Request for Qualifications for selection of an Engineering firm to provide general engineering services to the Town of Barrington. We understand that services will vary as needs arise and will include serving as Engineer of Record (EOR) on various Town Projects, assisting the Planning Board in review of site and subdivision plans and performing general civil engineering for Town operations.

As you review our proposal, we ask that you consider the strengths that we offer that will be utilized to successfully complete the services the Town has requested and to best illustrate our interest in working with you.

Upon review of the Scope of Services outlined we understand that the services will include all aspects of project development for the upgrade, maintenance, and/or replacement of Town-owned infrastructure and the review and inspection of private development projects.

A&M is actively involved in various as-needed contracts providing engineering services throughout New England. Because of this experience, we feel that our team is especially well qualified to assist the Town of Barrington throughout the duration of this contract.

We sincerely appreciate the opportunity to provide the Town of Barrington with this proposal and look forward to working with you and your team on this contract. If I can answer any questions or provide you with any additional information, please do not hesitate to contact me directly at (603) 627-5500 Ext. 9624 or mmalynowski@allenmajor.com.

Very Truly Yours,

**ALLEN & MAJOR ASSOCIATES, INC.**



Michael A. Malynowski, PE  
Senior Project Manager

400 Harvey Road  
Suite D  
Manchester, NH  
03103

T 603.627.5500  
F 603.627.5501

**allenmajor.com**

## 2. Firm Profile

Allen & Major Associates, Inc. (A&M) is a multi-disciplinary firm specializing in civil, land surveying, environmental consulting, and landscape architecture. Established in 1973, A&M has three offices that provide services throughout the Northeast.

The A&M team has extensive knowledge in planning, design, and permitting within the State of New Hampshire. We understand the need to have projects completed on time and on budget, while still maintaining a high level of quality to our clients. With over 40 dedicated engineers, landscape architects, land surveyors, project managers, and support specialists, our team brings a wide range of expertise that comes from decades of service and experience within the public and private sectors.

Our goal with each project is to provide you with technically sound advice and practical design solutions that go beyond your expectations without exceeding your budget. It is our commitment of offering consistent, responsive, and reliable service that has kept A&M in business for nearly five decades.

### **Civil - Roadway & “Mode Shift” Engineering Services**

With an increasing need for transportation alternatives, we offer transportation planning and design, utilizing multi-modal and sustainable approaches to create realistic solutions. We link transportation planning and design to the challenges facing communities by leveraging our in-house expertise in civil engineering, stormwater management, and low impact development to provide unique and effective strategies for the future. A&M is pre-qualified with NHDOT and has LPA Certified Professional Engineers on staff.

### **Utility - Sewer Collection & Stormwater Engineering Services**

A&M is pre-qualified with NHDES to provide water and wastewater piping system designs. Almost every project that our team undertakes incorporates utility and stormwater design in some capacity, whether it's the design for sewer connections, extensions or rehabilitations, drainage design, bioretention gardens, infiltration systems, or detention tanks. Our professionals have the expertise to successfully assist you throughout the design process.

### **Administration - RFQ & RFP Document Preparation and Technical Peer Review Services**

We understand that the administrative functionalities within a project are just as important as the design itself. That's why the A&M team is available to assist in the preparation of procurement documents, including scheduling and opinion of cost estimates. A&M is available to provide peer review services to the Town as needed to ensure future designs meet all regulations and design standards.

## 3. Project Team/Resumes

Allen & Major Associates, Inc. (A&M) will provide a dedicated team throughout the duration of each assigned project, from design through construction completion. Our team is an assembled group of professionals, knowledgeable in the required areas necessary for the successful completion of this contract.

A&M's Professional Engineers are NHDOT LPA Certified with significant design experience. Our multi-disciplined approach provides seamless integration of design aspects into the overall infrastructure program and provides in-house civil engineering, land surveying, structural engineering, and landscape architecture as necessary for a successful project completion. The entire proposed team is local and available to quickly provide solutions and insight for all aspects of your project.

### **Michael A. Malynowski, PE - Team Lead, Senior Project Manager**

Michael Malynowski will serve as the Team Lead and main point of contact throughout the duration of this contract. Michael has been an active member of the Salem community for nearly twenty-four years, and as such has a vested interest in seeing the continued improvements come to fruition within the Town. As a Senior Project Manager with over twenty years of experience, Michael's knowledge spans a variety of design projects within both the public and private sectors. He is experienced in the design of roadways, sidewalks, parking areas, and streetscape improvements, as well as multi-modal design and pedestrian connectivity. Michael regularly prepares utility designs for extensions, rehabilitation, and relocation, and oversees the construction administration during installation. He routinely provides design services for stormwater management, which includes items such as drainage systems, catch basins, and bioretention systems that will allow for precipitation to infiltrate, providing ground water recharge. He also develops stormwater pollution prevention plans, as well as providing peer review and procurement assistance to municipalities.

### **Brian D. Jones, PE - Key Personnel, Project Engineer**

Brian Jones serves as a Senior Project Manager within the Civil Division at Allen & Major Associates, Inc. Brian's experience is focused in the areas of civil design, environmental permitting, sustainable practices, and construction observation. His extensive knowledge of civil engineering design principles, federal, state, and local land use regulations, computer engineering applications, and field experience provides him with a solid foundation for effective design solutions. Brian's design approach is tailored to each site's unique constraints, resulting in an efficient yet appealing design. Brian's goal for each project he undertakes is to design the built environment so as to not be viewed as an engineered product.. Brian will work alongside A&M's Project Manager to ensure the overall success of each project performed for the Town of Atkinson.

# Project Team/Resumes

## **Stephen Mayer, PE - Key Personnel, Project Engineer**

Stephen Mayer serves as a Project Engineer at Allen & Major Associates, Inc. He is an integral part of the project development team, providing initial zoning research and site assessments in order to determine opportunities and constraints within a site; information that is critical to project viability and development budgets. Once he has completed his initial research, he assists with the preparation of layout and design, permit applications, site grading, drainage, parking, access, and maneuverability. Steve's primary responsibilities are to prepare drawings that conform to local, state, and federal construction regulations, as well as to local and state zoning ordinances. Stephen will also work alongside A&M's Project Manager to ensure the overall success of each project performed for the Town of Atkinson







## Robert P. Clarke, PLA, ASLA


Principal

### **Team Role: *Principal-in-Charge***

Robert Clarke serves as the Principal-in-Charge at Allen & Major Associates, Inc. Bob's approach to site development is differentiating. As a landscape architect, his approach to a project always starts with the aspiration to preserve and rehabilitate the natural environment while demonstrating his commitment to create exceptional and enduring spaces. As a civil engineer, his ability to see creative solutions to site constraints, work within limited budgets and time sensitive deadlines, and navigate the complex state and local permitting process minimizes the pressure that is part of the decision making process for the client. Combined both approaches allow for exploration of design solutions that can advance projects beyond the typical or expected.

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 rclarke@allenmajor.com

### **EXPERIENCE**

A&M - 13 Years  
Overall - 26 Years

### **EDUCATION**

1993, B.S., Landscape  
Architecture, University of  
Massachusetts, Amherst

### **REGISTRATIONS**

Professional Landscape  
Architect —

ME (LAR4194)

MA (1355)

NH (030)

RI (LA.0000444)

[allenmajor.com](http://allenmajor.com)

### **PROJECT EXPERIENCE**

#### **Residential**

- The Edge at Orchard Trails - Orono, ME
- Tidewater at Salisbury - Salisbury, MA
- University Edge - Durham, NH

#### **Commercial**

- CVS Corporate Headquarters - Cumberland/Woonsocket, RI
- Trade Center 128 - Woburn, MA
- Walmart Supercenter - Saugus, MA

#### **Institutional**

- The Residences at Silver Square - Dover, NH
- Southern New Hampshire Medical Center - Various Locations
- Winchester Hospital Healing Garden - Winchester, MA

#### **Hospitality**

- AC Marriott - Worcester, MA
- The Chelsea Residence Inn by Marriott - Chelsea, MA

#### **Specialty**

- Indian Ridge Country Club - Andover, MA
- Sports Complexes - Middleton & Worcester, MA
- Wiggins Airway Hanger Addition - Manchester, NH





## Michael A. Malynowski, PE

Senior Project Manager

### **Team Role: Project Manager**

Michael Malynowski serves as a Senior Project Manager at Allen & Major Associates, Inc. Michael's experience spans a variety of site and building projects for public and private sector clients. As a Project Manager, Michael provides technical oversight and coordination of project engineering. He strives to give his clients the personal service and quality that they expect from each project that he undertakes. Michael brings first-hand experience in site design, including utilities, zoning, parking, ADA accessibility, and storm water management. He is directly involved in bringing projects through local and state permitting agencies with a demonstrated ability to work through site challenges and design constraints. Relationship building and collaboration with team members and municipalities at all levels illustrates his ability to manage projects through successful completion.

### **PROJECT EXPERIENCE**

#### **Residential**

- 90 Antwerp Street - Brighton, MA
- Melnea Residence - Roxbury, MA
- Princeton Westford - Westford, MA
- The Edge at Orchard Trails - Orono, ME
- University Edge - Durham, NH

#### **Commercial**

- Plaistow Center - Plaistow, NH
- Silver Square - Dover, NH

#### **Hospitality**

- Fairfield Inn & Suites - Cambridge, MA
- Hilton Homewood Suites - Chelsea, MA
- Hampton Inn & Suites - Worcester, MA
- Holiday Inn Express & Residence Inn - Chelsea, MA
- Residence Inn by Marriott - Roxbury, MA
- Town Place Suites by Marriott - Chelsea, MA

#### **Public/Municipal**

- Montachusett Regional Transit Authority - Fitchburg, MA
- NH Dept. of Environmental Services Facility - Concord, NH

#### **Specialty**

- Ground Mount Solar Array - Chelmsford, MA
- Indian Ridge Country Club - Andover, MA

400 Harvey Road  
Manchester, NH 03103

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mmalynowski@allenmajor.com

### **EXPERIENCE**

A&M - 8 Years  
Overall - 23 Years

### **EDUCATION**

1996, B.S., Civil Engineering  
Technology, Wentworth  
Institute of Technology

### **REGISTRATIONS**

Professional Engineer —

ME (PE11522)

MA (47269)

NH (12205)

Certifications —

NHDES Designer (1739)

NHDOT LPA Certification  
(1834)

[allenmajor.com](http://allenmajor.com)



## Brian D. Jones, PE

Senior Project Manager

### **Team Role: Project Manager**

Brian Jones serves as a Senior Project Manager within the Civil Division at Allen & Major Associates, Inc. Brian's experience is focused in the areas of civil design, environmental permitting, sustainable practices, and construction observation. His extensive knowledge of civil engineering design principles, federal, state, and local land use regulations, computer engineering applications, and field experience provides him with a solid foundation for effective design solutions. Brian's design approach is tailored to each site's unique constraints, resulting in an efficient yet appealing design. Brian's goal for each project he undertakes is to design the built environment so as to not be viewed as an engineered product.

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(603) 627-5500 Ext. 9622

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bjones@allenmajor.com

### **EXPERIENCE**

A&M - 15 Years  
Overall - 21 Years

### **EDUCATION**

1999, B.S., Civil Engineering,  
University of Massachusetts,  
Lowell

### **REGISTRATIONS**

Professional Engineer —

MA (49212)

NH (13809)

RI (0011089)

[allenmajor.com](http://allenmajor.com)

### **PROJECT EXPERIENCE**

#### **Residential**

- Saugus Ridge - Saugus, MA
- Stone Place - Melrose, MA
- Taj Estates - Stoughton, MA

#### **Commercial**

- Infiniti of Nashua - Nashua, NH
- Northern Bank & Trust Corporate Headquarters - Woburn, MA
- Self-Storage Facility - Allentown, NH
- Pelham Plaza - Pelham, NH

#### **Senior Living/Healthcare**

- Benchmark Senior Living at Woburn - Woburn, MA
- ConvenientMD - Belmont, NH
- Lahey Health IT Building - Woburn, MA
- MedExpress - Various Locations
- Southern New Hampshire Health Systems - Various Locations
- Winchester Hospital - Winchester, MA

#### **Public/Municipal**

- Newburyport Intermodal Transit Facility - Newburyport, MA
- Walnut Hill Parking Garage - Woburn, MA

#### **Specialty**

- BAE Systems MER23 Expansion - Merrimack, NH
- Dave & Buster's Entertainment Complex - Woburn, MA
- Wiggins Airways Hanger - Manchester, NH
- Worcester Ice Center - Worcester, MA





## Stephen Mayer, PE


Project Engineer


### **Team Role: Project Engineer**

Stephen Mayer serves as a Project Engineer at Allen & Major Associates, Inc. He is an integral part of the project development team, providing initial zoning research and site assessments in order to determine opportunities and constraints within a site; information that is critical to project viability and development budgets. Once he has completed his initial research, he assists with the preparation of layout and design, permit applications, site grading, drainage, parking, access, and maneuverability. Steve's primary responsibilities are to prepare drawings that conform to local, state, and federal construction regulations, as well as to local and state zoning ordinances.

 400 Harvey Road  
Manchester, NH 03103

 (603) 627-5500 Ext. 9621

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 smayer@allenmajor.com

### **EXPERIENCE**

A&M - 6 Years  
Overall - 9 Years

### **EDUCATION**

2010, B.S., Civil Engineering,  
University of New Hampshire

### **REGISTRATIONS**

Professional Engineer —  
NH (14945)

Certifications —  
NH DOT LPA Certification  
(1833)

[allenmajor.com](http://allenmajor.com)

### **PROJECT EXPERIENCE**

#### **Residential**

- 2 Washington Street - Melrose, MA
- 32-34 South Main Street - Concord, NH
- 37 Washington Street - Melrose, MA
- Princeton Westford - Westford, MA
- Saugus Ridge - Saugus, MA
- Taj Estates - Stoughton, MA
- University Edge - Durham, NH

#### **Commercial**

- Automotive Dealership - Derry, NH
- CVS Corporate Campus - Woonsocket, RI
- Giorgio's Ristorante - Manchester, NH
- Prime Subaru of Manchester - Manchester, NH
- Silver Square - Dover, NH
- Town Place Suites by Marriott - Chelsea, MA
- Tractor Supply - Pelham, NH

#### **Senior Living/Healthcare**

- LCB Senior Living - Lexington, MA
- Medical Eye Associates - Manchester, NH

#### **Specialty**

- Essex Sports Complex - Middleton, MA
- MGM Springfield - Springfield, MA
- Worcester Ice Arena - Worcester, MA

## 4. Firm's Related Experience

Allen & Major Associates, Inc. (A&M) offers civil engineering design and project management for projects within both the public and private sectors. We offer services from conceptual design, to design development, through construction completion. At A&M, our goal is to provide our clients with a single source for all of their project design and development needs.

### **Our Civil Engineering Services include:**

- Construction Consultation
- Due Diligence
- Feasibility Studies
- Federal, State & Local Permitting
- Grading & Drainage Design
- Master Planning
- Peer Review Services
- Pedestrian Connectivity & Sidewalk Design
- Roadway & Parking Area Design Services
- Sewer Line Extensions & Relocations
- Site Development/Re-development
- Stormwater Management
- Subdivision Design
- Water Line Extensions & Relocations

Our professional engineering team has the experience and capability to help our clients see their visions come to life. A&M strives to provide innovative and technically sound development solutions while preserving our role as environmental stewards. We are proud members of the U.S. Green Building Council and support sustainable construction, Best Management Practices, and renovation initiatives.

### **Main Street/University Edge - Durham, New Hampshire**

Key Personnel: Michael Malynowski

A&M provided civil and structural engineering, land surveying, and landscape architectural services for the University Edge project, which provided much needed housing for students attending the University of New Hampshire. In partnership with the Town of Durham, walk-ability was the primary focus of the project and included many attributes of a walkable community, including street connections and pedestrian links, with easy accessibility to any destination within town. The existing sidewalk along Main Street was redesigned to 8-feet to accommodate multiple pedestrians. Sustainable design solutions include rain gardens, roof drains, and porous pavers to infiltrate all of the on-site stormwater. *University Edge was the winner of the 2016 Plan NH Merit Award.*

### **Silver Square - Dover, New Hampshire**

Key Personnel: Michael Malynowski,

A&M provided civil engineering, land surveying, and landscape architectural services for the redevelopment of the Macintosh College Campus, encompassing nearly 20 acres. Civil engineering included site design, permitting, and extensive stormwater management. Landscape design services included landscape islands, drive isles, periphery

# Firm's Related Experience

plantings, and landscape design for the roundabout which leads into the project site, downtown Dover, and the NH Route 16 on-ramp. A&M worked with the development team to create innovative solutions that addressed the site constraints, including extensive pedestrian interconnectivity throughout. Due to the size of the project and its proximity to a wetland system, a comprehensive stormwater management system was designed to mitigate the increased stormwater flows to avoid an increase in the total peak rate of runoff from the site. The stormwater system was designed utilizing several smaller treatment areas within the site, which helped minimize the amount of impervious areas directly connected to the discharge points. The stormwater system consists of a combination of closed and open drainage systems, including grass lined treatment swales, level spreaders, and two vegetated under drained soil filter ponds, and one subsurface detention system.

## **Tractor Supply - Pelham, New Hampshire**

Key Personnel: Brian Jones

Allen & Major Associates, Inc. provided land surveying, civil engineering, and landscape architectural design services for this 20,000 SF single-story Tractor Supply along Route 38 in Pelham, New Hampshire.

The project site was originally part of the 17-acre Pelham Plaza shopping center. The land owner wanted to subdivide the property and create an additional retail lot at the southerly end of the existing shopping center. The challenge though, was the 50-foot grade change between the front and rear of the parcel. This was the primary reason the land had not been developed, along with the fact that the site did not have access to municipal water, sewer, or natural gas. Site development required an on-site well, individual septic system, and water cistern/pump house for fire protection.

The solution to the challenges included careful planning and multiple iterations of site layout and grading to minimize the earthwork. Subsurface stormwater infiltration was used below the pavement areas, which helped to reduce the development footprint and the overall earthwork required.

Landscape design had to meet the requirements of the Town Zoning and the national standards of the Tractor Supply Company. Due to the unavailability of irrigation, the design incorporated drought tolerant species and native plantings. Other interesting landscape features included the use of wildflower seed mixes on the disturbed slopes.

## **Pelham Plaza - Pelham, New Hampshire**

Key Personnel: Brian D. Jone, PE

Allen & Major Associates, Inc. provided land surveying, civil engineering, permitting, and landscape architectural services for the rehabilitation of an existing strip mall in Pelham, New Hampshire.

# Firm's Related Experience

- Improvements included updating walk-ways; reconfiguring parking, new façades, landscape design and master planning for future improvements.
- An onerous grade change was the primary reason the out parcel had not been developed. There was a 50-foot grade change between the front and rear of the parcel. The project also did not have access to municipal water, sewer, or natural gas. A&M had been working with Tractor Supply on another project and was instrumental in bringing them to the site.
- A&M completed multiple iterations of site layouts and grading to minimize the earthwork. Subsurface stormwater infiltration was used below the pavement areas, which helped to reduce the development footprint and the overall earthwork required. The site also required an on-site well, individual septic system, and water cistern/pump house for fire protection. Landscape designs used drought tolerant species and native plantings due to lack of irrigation options.

The project successfully attained multiple permits including: Site Plan Review, Zoning Variance, NHDES Alteration of Terrain, NH DOT Highway Access, and NHDES ISDS (Septic).

# 5. References

- |                          |  |
|--------------------------|--|
| <b>#1 Reference</b>      | Town of Durham<br>Department of Public Works   |
| <b>Contact Person</b>    | April Talon, PE  |
| <b>Address</b>           | 100 Stone Quarry Drive<br>Durham, NH 03824   |
| <b>Phone Number</b>      | (603) 868-5578   |
| <b>Relevant Projects</b> | University Edge, Durham, NH<br>- Main Street sidewalk expansion,<br>stormwater management design, and utility<br>design  |
| <b>#2 Reference</b>      | Richert Planning   |
| <b>Contact Person</b>    | Evan Richert   |
| <b>Address</b>           | 38 Willow Way<br>Brewer, ME 04412  |
| <b>Phone Number</b>      | (207) 570-1971   |
| <b>Relevant Projects</b> | The Edge at Orchard Trails, Orono, ME<br>- Utility design, stormwater management,<br>transportation planning, roadway design,<br>and pedestrian connectivity                                 |
| <b>#3 Reference</b>      | City of Newburyport  |
| <b>Contact Person</b>    | Andrew Port<br>Director of Planning & Development  |
| <b>Address</b>           | 60 Pleasant Street<br>Newburyport, MA 01950  |
| <b>Phone Number</b>      | (978) 465-4400   |
| <b>Relevant Projects</b> | Newburyport Intermodal Parking Facility,<br>Newburyport, MA<br>- Utility design, streetscape improvements,<br>pedestrian connectivity, transportation<br>planning, and stormwater management |



## 6. Firm Performance

Our goal with each project is to provide you with technically sound advice and practical design solutions that go beyond your expectations without exceeding your budget. It is our commitment of offering consistent, responsive, and reliable service that has kept A&M in business for nearly five decades.

In reference to whether A&M have had any claims and/or lawsuits filed against our professional liability insurance with in the past five years we answer as follows:

Capital Group Properties, LLC v. Allen & Major Associates, Inc.

A&M is the defendant who provided land surveying services. Plaintiff, Capital Group Properties, LLC claimed that A&M provided the incorrect plans which represented the conditions at the property. Plaintiff knowingly moved forward with design work on old existing conditions base information at their own risk.

This matter was settled 11/2020.

## 7. Billing Rate Structure

**SEE SEPARATE DOCUMENT**

## 8. Conflict of Interest

A&M does not anticipate any real or perceived conflict of interest throughout the duration of this contract with the Town of Barrington. Should a situation arise where we feel there is or could be a conflict of interest, it will be brought to the Town's attention immediately to determine a course of action for moving forward.

# Project Profile



## PROJECT STATS

Rubicon Real Estate Holdings

Retail

5 Acres  
20,000 SF

Completed in 2015



## Tractor Supply

Pelham, New Hampshire

Allen & Major Associates, Inc. provided land surveying, civil engineering, and landscape architectural design services for this 20,000 SF single-story Tractor Supply along Route 38 in Pelham, New Hampshire.

- The project site was originally part of the 17-acre Pelham Plaza shopping center. The land owner wanted to subdivide the property and create an additional retail lot at the southerly end of the existing shopping center. The challenge though, was the 50-foot grade change between the front and rear of the parcel. This was the primary reason the land had not been developed, along with the fact that the site did not have access to municipal water, sewer, or natural gas. Site development required an on-site well, individual septic system, and water cistern/pump house for fire protection.
- The solution to the challenges included careful planning and multiple iterations of site layout and grading to minimize the earthwork. Subsurface stormwater infiltration was used below the pavement areas, which helped to reduce the development footprint and the overall earthwork required.
- Landscape design had to meet the requirements of the Town Zoning and the national standards of the Tractor Supply Company. Due to the unavailability of irrigation, the design incorporated drought tolerant species and native plantings. Other interesting landscape features included the use of wildflower seed mixes on the disturbed slopes.

# Project Profile



## PROJECT STATS

Rubicon Real Estate Holdings

Retail/Mixed-Use

17 Acre Plaza w/  
5 Acre Outparcel

Completed in 2017

## Pelham Plaza

Pelham, New Hampshire

Allen & Major Associates, Inc. provided land surveying, civil engineering, permitting, and landscape architectural services for the rehabilitation of an existing strip mall in Pelham, New Hampshire.

- Improvements included updating walk-ways; reconfiguring parking, new façades, landscape design and master planning for future improvements.
- An onerous grade change was the primary reason the out parcel had not been developed. There was a 50-foot grade change between the front and rear of the parcel. The project also did not have access to municipal water, sewer, or natural gas. A&M had been working with Tractor Supply on another project and was instrumental in bringing them to the site.
- A&M completed multiple iterations of site layouts and grading to minimize the earthwork. Subsurface stormwater infiltration was used below the pavement areas, which helped to reduce the development footprint and the overall earthwork required. The site also required an on-site well, individual septic system, and water cistern/pump house for fire protection. Landscape designs used drought tolerant species and native plantings due to lack of irrigation options.
- The project successfully attained multiple permits including: Site Plan Review, Zoning Variance, NHDES Alteration of Terrain, NH DOT Highway Access, and NHDES ISDS (Septic).



# Project Profile



## PROJECT STATS

VMD Companies

Mixed-Use

19.46 Acres

Completed in 2018



## Silver Square

Dover, New Hampshire

Allen & Major Associates, Inc. provided land surveying, civil engineering, environmental consulting, and landscape architectural services for the redevelopment of Macintosh College campus in Dover, New Hampshire.

- Silver Square is situated on 19.46 acres, just south of the Route 16 on-ramp. Prior to development the majority of the site featured several large commercial buildings and parking areas to support the former academic facility. The site now includes The Residences at Silver Square (76-units), 66,000 SF medical office, Dunkin' Donuts, and the revitalized Garrison Hotel (66-guestrooms).
- Due to the size of the project and proximity to a wetland system, a comprehensive stormwater management system needed to be designed to mitigate the increased stormwater flows to avoid an increase in total peak rate of runoff from the site. A&M designed a stormwater system utilizing several smaller treatment areas within the site helping to minimize the amount of impervious areas directly connected to the discharge points. The system consists of a combination of closed and open drainage systems, including grass lined treatment swales, level spreaders, and two vegetated under drained soil filter ponds, and one subsurface detention system.
- A&M worked with the development team to create innovative solutions for the development constraints including pedestrian inter-connectivity throughout the project allows for cross sharing of parking between the related uses on the site.