

SUPPLEMENTAL DATA & ENVIRONMENTAL IMPACT REPORT

**63 Gratuity Road
Groton, MA**

August 1, 2024

Prepared For:
Routhier & Roper Gratuity Road, LLC
256 Ayer Road
Littleton, MA 01460

Prepared By:
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ENGINEERING | GEOSPATIAL | REALITY CAPTURE | DIGITAL TWIN TECHNOLOGIES

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1.0 Existing Conditions

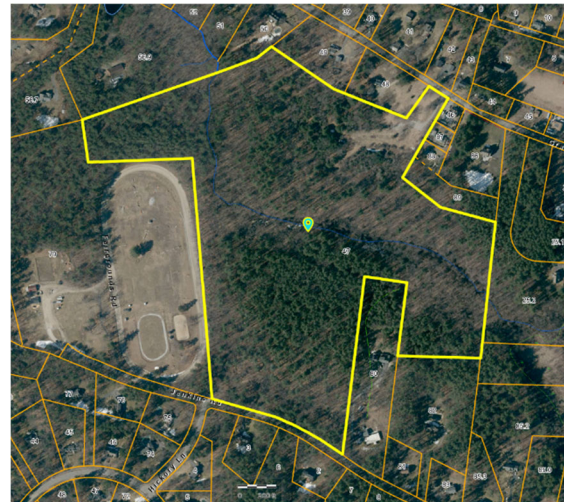
1.1 SITE DESCRIPTION

The proposed project site is located at 63 Gratuity Road in Groton and is owned by Routhier & Roper Gratuity Road, LLC. The lot is approximately 54.8 Acres in size and is currently vacant. Historically the land was occupied as a residential farmhouse with agricultural buildings, however, the structures have been torn down and removed from the property.

The buildings were originally constructed in 1938 and included an 1,800 square foot residential dwelling, a 2,500 square foot barn, and a 200 square foot garage building. The property is shown as Assessor Parcel Number 216-47 and is located entirely within the R-A: Residential-Agricultural District. Further, the lot is bounded to the west by public use land, the Hazel Grove Park Equestrian Facility, and residential zoned properties to the North, East, and South, see Figure-1. Additionally, a locus Map is provided in Appendix A.

Currently there is no formal drainage for the property with runoff sheet flowing in a general way towards Gratuity Brook running through the middle of the property.

Figure-1 – Zoning Map



1.2 SITE ACCESS

The site has approximately 116 feet of frontage along Gratuity Road, a variable width public way, and approximately 738 feet of frontage on Jenkins Road, a variable width public way. Currently access to the property is from an existing curb cut on Gratuity Road with access along Jenkins Road limited to informal trails. The curb cut on Gratuity Road contains a paved driveway with a small turn-around area that was used to provide access to the farmhouse.

1.3 TOPOGRAPHIC FEATURES AND VEGETATION

The topography of the site consists of gentle slopes which flow, in a general way, towards Gratuity Brook running through the center of the property. The brook, which flows from southeast to northwest joins the Nashua River approximately ½ mile northwest of the property. The highest elevation on the site exists in the southeastern portion of the property with an elevation of approximately 217 feet. The lowest elevation on the site exists in the northwestern

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portion of the property with an elevation of approximately 209 feet. Contours for the surrounding area mimic the onsite topography with sloping gently to the Northwest.

Vegetation consists of a mix of the previously developed portion of the site, and natural woodlands. The developed portion of the site includes a small area of pavement and overgrown grassed areas. The forest is primarily dominated by mature white pine trees with a presence of smaller oak and maple trees. The trees vary in size from 12 inches to 32 inches with the locations provided in the attached plans.

The plans also depict the approximate locations of the existing trail system onsite.

1.4 SUBSURFACE CONDITIONS

The Natural Resources Conservation Service (NRCS) Soil survey of Middlesex County, Massachusetts defines the soils on the project site. The area of the proposed project consists of three (3) distinct soil groups. The areas immediate to Gratuity Brook are a Deerfield Loamy Sand with areas to the north defined as Hinkley Loamy Sand and areas to the south defined as a Windsor Loamy Sand. All of the areas are defined as a hydrologic soil group (HSG) 'A'.

The Deerfield series consists of very deep, moderately well drained soils formed in glaciofluvial deposits. They are nearly level to strongly sloping soils on terraces, deltas, and outwash plains. Slope ranges from 0 to 15 percent. The soil is moderately well drained and runoff is negligible to low.

Hinckley soils are described as deep (greater than 5 feet) excessively drained soils on glacial outwash plains, terraces, kames, and eskers. They formed in gravelly and cobbly coarse textured glacial outwash. These soils have loose gravelly and very gravelly sandy loam to loamy coarse sand surface soils and subsoil with rapid permeability. The substratum generally consists of loose stratified sands and gravels with very rapid permeabilities.

Windsor soils are also described as deep excessively drained soils on glacial outwash plains, terraces, deltas, and escarpments. They formed in sandy glacial outwash. Windsor soils have a loamy sand or loamy fine sand surface soil and subsoil. The substratum consists of sand or fine sand to a depth of over 60 inches with a rapid permeability. A copy of the soil map is included in Appendix B.

LandTech Consultants, Inc. also performed soil testing onsite, under the supervision of a representative of the Groton Board of Health, which confirmed the onsite soils as a well-drained sand & gravel texture. Estimated groundwater varied from 18 inches (18") to 32" with a median depth of 24". Percolation tests also confirmed the well-drained soils with rates exceeding two (2) minutes per inch. A copy of the soil logs is included in Appendix B.

1.5 RESOURCE AREAS

Bordering Vegetated Wetlands

Resource areas onsite consist mostly of a bordering vegetated wetland (BVW) area that is associated with Gratuity Brook. The wetland area mimics the stream bank(s), extending out,

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approximately 5 to 10 feet. The resource areas were reviewed by the Groton Conservation Commission with an Order of Resource Area (ORAD) issued on November 12, 2019, with an extension granted through September 16, 2024. The approved BVW is shown on the enclosed plan set with a copy of ORAD included in appendix E.

Bordering Land Subject to Flooding

The project property is located within a Zone X, areas of minimal flood hazard, as shown on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM) Community Panel Number 25017C0201E and 25017C202E, effective dates June 4, 2010. A copy of the FEMA FIRMette Map is included in Appendix C along with an annotated GIS Map showing the extents of the parcel.

It should be noted that the Groton Conservation Commission ORAD Approval did not include a determination on the presence or absence of bordering lands subject to flooding.

Riverfront Area

The Abbreviated Notice of Resource Delineation Application (ANRAD) filed for the property, and the ORAD Approval referenced above, included a detailed evaluation of Gratuity Brook. It was determined that the onsite portion of the brook was found to be intermittent, wetland flag CLW-4 to CLW-70, as shown on the attached plans. The offsite portions of Gratuity Brook, upstream and downstream, were not evaluated with the ANRAD Application, and are classified as perennial with 200-foot riparian zones.

Natural Heritage

The site is not located within the Estimated Habitat of Rare Wildlife as shown on the 15th Edition Natural Heritage Atlas, dated August 1, 2021, available on the MassGIS Online Mapping Tool "Massmapper". A copy is included in Appendix D.

A certified vernal pool (CVP #3393) is located approximately 800 feet north of the development near Oneill Way and the Groton Residential Gardens Complex, 501-523 Main Street. The vernal pool is associated with what appears to be an isolated wetland area and was certified in 2004. The pool contains Facultative Species and is shown on the MassGIS Online Mapping Tool "Massmapper", <https://maps.massgis.digital.mass.gov/MassMapper/MassMapper.html>

Critical Areas

The property not located within a Wellhead Protection Zone II or an Interim Wellhead Protection Area (IWPA) Zone I, as shown on the MassGIS Online Mapping Tool, "Massmapper", <https://maps.massgis.digital.mass.gov/MassMapper/MassMapper.html>

The site is located within an Area of Critical Environmental Concern (ACEC), the Petapawag ACEC, which is a 25,630-acre designation located within the Nashua River and Merrimack River Watersheds in the Towns of Ayer, Dunstable, Groton, Pepperell, and Tyngsborough. The 37,450-acre Squannassit ACEC is also located nearby on the western side of the Nashua River. The Petapawag ACEC encompasses areas east of the Nashua River and the Squannassit ACEC encompasses areas west of the Nashua River.

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1.6 UTILITIES

The following utilities are available to the site:

- **Electric:** Overhead electric service is available along both Gratuity Road and Jenkins Road.
- **Telephone:** Overhead telephone service is available along both Gratuity Road and Jenkins Road.
- **Cable Television:** Overhead cable television service is available along both Gratuity Road and Jenkins Road.
- **Natural Gas:** Natural gas service is currently not available nearby.
- **Water:** Municipal water service exists on Gratuity Road and at the intersection of Jenkins Road and Hickory Lane.
- **Sewer:** Municipal Sewer is located on abutting properties to the south and west, however, the locus parcel is not located within the (Consolidated Center) Sewer District and sewer is not available to the site. Properties outside of the municipal sewer districts in the Town of Groton treat wastewater flows with onsite septic systems.

2.0 Proposed Development

2.1 PROJECT DESCRIPTION

The proposed project will be an age-restricted residential community consisting of twenty-eight (28) units, set on 14 Use Areas, designed in accordance with the Major Residential Development Regulations. All the buildings will be duplex style multi-family homes situated on a conventionally sized use area. The units will be accessed from two (2) new roads, "Gerard Way" off Gratuity Road, and "Therese Lane" off Jenkins Road. The development will be constructed with moderately priced housing, offering several different styles, and includes the preservation of open space by limiting tree clearing and permanently protecting large tracts of land. As compared to a conventional development, the Major Residential Development Layout helps minimize environmental impacts by providing a more efficient design of utilities and roadways while reducing the overall scale of the project.

The layout of the open-space parcels was determined by analyzing the site topography, wetlands, and soil conditions. This included reviewing the characteristics of the neighborhood and the use of the adjacent properties. Accordingly, the open-space was designated to areas surrounding Gratuity Brook and the adjacent Equestrian Facility (See Figure 2 – Open-Space Vicinity Plan).

Figure-2 Open-Space Vicinity Plan



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The areas chosen for open space, Parcel A, maintain the on-site natural features of Gratuity Brook while providing a wildlife corridor through the development. The use areas will also include protected open space around the units by limiting tree clearing, with permanent easements, to buffer the development to adjacent properties. A significant buffer was allocated to the western portion of the property, nearest Hazel Grove Park, enhancing privacy.

The development includes a diversity in housing styles by providing a variety of floor plans, various layouts, and alternating access configurations. Each Building will include 2 equally sized units with each unit containing approximately 2,200 square feet of floor area, a two-car garages, and heights less than 32 feet. Construction of the dwellings includes sustainable construction practices, with buildings designed in accordance with the Updated Strech Energy Building Code. The updated code is a performance-based code, that focuses on electric appliances and high efficiency mechanicals that will provide energy efficient homes.

The design of the housing development is consistent with a Conventional Subdivision layout but uses the Major Residential Development guidelines to provide meaningful open space in accordance with the goals of the Town of Groton. The following is a summary of the development and open space:

Unit Area Calculations

- Minimum Unit Area Required: 80,000 sf
Minimum Unit Area Provided: 80,000 sf
- Minimum Frontage Required: 225 ft
Minimum Unit Area Provided: 225 ft

Open Space Calculations

- Total Lot Area: 2,301,460 sf
- Open Space Area: 961,438 sf (Parcel A)
783,872 sf (Restricted Use Areas)
Total: 1,745,310 sf (76% of Lot Area)

Less the total Wetland and Drainage Easement Areas

50,618 sf (Wetlands)

44,150 sf (Drain Easements)

Total: 1,650,542 sf (72% of Lot Area)

2.2 SITE ACCESS, PARKING AND LOADING

The design includes two (2) new paved roadways, Gerard Way and Therese Lane. Gerard Way will act as access for 10 units and will be constructed off Gratuity Road. Therese Lane will act as access for 18 units and will be constructed off Jenkins Road. Each road is approximately 950 feet long with a standard size cul-de-sac suitable for emergency-response vehicles turning around. Both roads are designed as a 'Minor' Street with a 50-foot right-of-way and a 22-foot-wide road.

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The roads are proposed to have minimal slopes, less than 5%, designed to correspond with the existing topography. The roadway layout includes standard curbing, utilities, and a sidewalk for pedestrian access. It is anticipated that each unit will have dedicated off-street parking with two (2) garage spaces and two (2) exterior driveway spaces.

The sight distances at both intersections for the new roadways with Gratuity Road and Jenkins Road Carlisle Road exceed the minimum standards for stopping sight distance, see Transportation Impact Assessment provided by others under a separate cover for additional information.

2.3 UTILITIES

The following utilities would be utilized by the proposed development:

Electric: Electric services will be installed underground from the existing services located in Gratuity Road and Jenkins Road. The services can be provided to the proposed development with minimal impact expected to the existing electric service.

Cable Television: Cable Television services will be installed underground from the existing services located in Gratuity Road and Jenkins Road. This service can be provided to the proposed development with minimal impact expected to the existing cable television service.

Telephone: Telephone services will be installed underground from the existing services located in Gratuity Road and Jenkins Road. This service can be provided to the proposed development with minimal impact expected to the existing telephone service.

Natural Gas: Natural Gas service will not be extended to the development with construction of the dwellings focusing on sustainable alternatives, such as heat pumps, for heating and cooling.

Town Water: Town water will be extended to the site from the existing water service located in Gratuity Road. The water line will extend through Gerard Way and Therese Lane to the existing water main located at the intersection of Jenkins Road and Hickory Lane.

Water line improvements include installing multiple water valves and hydrants, as required by the Water and Fire Departments, with minimal adverse impacts expected to the existing system.

Additionally, most of the waterline will be constructed with conventional liner construction techniques; however, a portion of the water line, near Gratuity Brook, will be constructed with directional drilling to minimize impacts. Directional drilling reduces

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environmental impacts by limiting the amount of digging required to install the water line, while preserving the onsite resource areas in a natural state.

Septic System: The development will be serviced by two (2) on-site centralized septic systems designed in accordance with State and Local Criterion. One system will service Gerard Way, and one system will service Therese Lane.

Centralized septic systems were preferred for this development to reduce the amount of infrastructure required for individual septic systems. Constructing one leach field is more efficient than building individual leach fields and limits the total disturbance for the development. Centralized systems also require added Operation and Maintenance requirements to ensure the system is being used and maintained in a way that is safe for public health.

As an alternative to municipal sewer, onsite septic systems properly treat the wastewater while recharging groundwater and replenishing aquifers. It is expected that by meeting the performance standards of the regulations, the systems will be designed to protect the public health and not have a significant adverse impact on the environment or the adjacent lands.

2.4 STORMWATER MANAGEMENT

The stormwater management system for the proposed development has been designed in accordance with the DEP Stormwater Management Policy. This includes a combination of Best Management Practices (BMPs) provided to achieve over 80 percent removal of total suspended solids as well as other required performance standards. See the Stormwater Management Report (under separate cover) for the results of the drainage calculations.

The development will incorporate a closed drainage system designed to handle the additional runoff that will be generated as a result of the proposed development. The closed drainage system will collect runoff from the roadway system with typical catch basin and drain manholes which will then discharge to an infiltration system.

The deep sump catch basins will help separate sediment and debris prior to discharging to the infiltration system. The infiltration system will be used to detain peak flow rates and infiltrate the stormwater back into the groundwater.

The stormwater system is designed to reduce runoff rates of stormwater produced from the 2-year, 10-year, and 100-year storm events as well as provide appropriate recharge and water quality volumes. Additionally, the proposed grading will be completed in such a manner as to not increase the post development peak rate of runoff to the adjacent properties.

3.0 Development Impacts

3.1 TRAFFIC AND ACCESS

The proposed project will access Gratuity Road and Jenkins Road at points that provide proper offsets to adjacent streets, as well as, providing adequate stopping sight distances. A detailed Transportation Impact Assessment (TIA) has been prepared, by others, under a separate cover, evaluating the developments impacts to the existing road network.

The TIA uses trip-generation statistics to compare the proposed age-restricted development to a conventional development and the resulting benefits. Typically age-restricted developments generate less traffic, and the site specific data provided, shows a reduction of about 44% for average weekday trips.

The TIA also evaluates vehicle queuing, turning movements, and evaluations of nearby intersections, demonstrating that the project can be accommodated within the existing roadway network and infrastructure.

3.2 UTILITIES/LIGHTING/LANDSCAPING

UTILITIES

As noted in Section 2.3, water and electric/cable/telephone are currently available in Gratuity Road and Jenkins Road. No significant impact is anticipated with the proposed development. The project also focuses on carbon-free heating and cooling mechanicals for each unit as a more environmentally friendly system. The systems will be more efficient, meet current regulations, and help minimize impacts to the environment.

LIGHTING

To help reduce the impacts of lighting on abutting properties, light fixtures are limited to residential style post lights that are dark-sky friendly. Post lights will be lower to the ground than commercial light fixtures with residential style bulbs, with low wattage, that are shielded to limit light pollution.

LANDSCAPING

Landscaping includes preserving large tracks of natural open space and supplementing the developed areas with formal landscaping. Designated open space emphasizes the aesthetic assets of the existing site, preserving trails, and providing screening to neighbors and public ways to the greatest extent possible. The proposed development will leave more than 72% of the site undisturbed as protected open space, with the majority allocated to areas around the onsite resource areas and areas directly adjacent to abutters. Effort will also be made to preserve large specimen trees and trails along the clearing by staking the limits prior to any site work.

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Screening has also been provided along the adjacent public properties by limiting clearing and grading for the individual lots and installing a permanent fence. The screening includes maintaining a large tract of existing vegetation and the fence will be a 4 foot tall chain link fence, with a critter passage gap at the bottom, to buffer the facility.

Formal landscaping includes replanting shade trees along the roadways and with more formal plantings around the buildings. Plants will consist of native vegetation, which tend to be drought tolerant, that minimizes maintenance requirements. See landscape plan for site specific plantings.

3.3 ENVIRONMENTAL

3.3.1 Resource Areas

Construction Period

The development is designed to limit impacts on the nearby resource areas by minimizing the amount of clearing and grading onsite while maintaining natural buffers to the onsite wetland area. The site plan includes a detailed construction and erosion control plan to ensure construction is controlled and that the project will not disturb any wetland areas or modify any resource area as outlined in Section 1.5.

All stormwater collected from runoff created by the roadway, building roof tops and landscaped areas will be conveyed to the closed drainage system treated, retained and recharged on site in accordance with the DEP Stormwater Management Policy. Since the drainage system has been designed in accordance with DEP's Stormwater Management Policy, it is not expected that the development will result in any adverse effects on site or on adjacent parcels.

To mitigate sediment runoff and erosion during construction, temporary erosion and sediment control measures are proposed. This includes the installation of straw wattles, silt fences, temporary basins, temporary stabilization, as well as check dams in accordance with the Environmental Protection Act (EPA) National Pollution Discharge Elimination System (NPDES) Construction General Permit (CGP) Requirements. Additionally, all existing catch basins on-site, or along Gratuity Road or Jenkins Road, within 100 feet of the site, will be lined with Silt-Sacks to further help reduce impacts from stormwater runoff during construction.

Post Construction Period

Project manuals have also been developed for the site and include an Operation and Maintenance (O&M) Manual and a Long-Term Pollution Prevention Plan (LTPPP). Both are designed for the site-specific Best Management Practices (BMP's) to ensure the drainage system is maintained to effectively treat stormwater long-term. Additionally, a Homeowner Association (HOA) will be developed with the requirement to maintain the stormwater system.

3.3.2 Critical Areas

Critical Areas, as defined by Standard 6 of the 2008 MassDEP Stormwater Management Handbook, are areas where higher levels of stormwater treatment are required to help protect key surface waters. This includes Outstanding Resource Waters (ORW's), shellfish beds, swimming beaches, cold-water fisheries, and recharge areas for public water supplies.

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Nashua River

The site is located near the Nashua River, which flows north towards the New Hampshire state line. The river is listed in the 2022 Massachusetts List of Integrated Waters as a Category 5 water requiring TMDL. The section of river, at the confluence of Gratuity Brook, is 9.1 miles long and is designated as MA81-06, extending from confluence of Squannacook River, Shirly/Groton/Ayer to the Pepperell Dam (NATID: MA00373), Pepperell (through former 2008 segment: Pepperell Pond MA81167). The Massachusetts Surface Water Quality Standards (314 CMR 4.00) list this section of river as a Class B Water. This section of the river is not designated as a Wild and Scenic River, is not an Outstanding Resource Water (ORW), and is not a cold-water fishery.

Impairments include Nutrient Eutrophication and impacts to Benthic Macroinvertebrates, as well as non-native aquatic plants (Water Chestnut, Curly-Leaf Pondweed, and Fanwort). Both Impairments are Indicators of Water Quality and typically associated with untreated stormwater discharge from point source discharges and the introduction of non-native organisms. Action items for these impairments include the following.

- A. Action items to help reduce impacts to Benthic Macroinvertebrates / Nutrient Loading include.
 - a. Encourage Nitrogen reducing practices.
 - b. Stormwater facilities designed with pre-treatment devices typically provide protection to streams/rivers from biological impairment.
 - c. Maintaining Landscape Buffers and/or Restoring Riparian Zone are also beneficial to reducing impacts.

- B. Action items to help prevent the spread of Non-native plants include.
 - a. Reducing untreated stormwater runoff from streets
 - b. Provide Total Suspended Solid (TSS) treatment techniques and infiltration systems to help reduce impairments.

Area of Critical Environmental Concern (ACEC): Petapawag

The site is located within the Petapawag ACEC, which is a 25,630-acre designation, located within the Nashua River and Merrimack River Watersheds, in the Towns of Ayer, Dunstable, Groton, Pepperell, and Tyngsborough. The 37,450-acre Squannassit ACEC is also located nearby on the westerly side of the Nashua River. The Petapawag ACEC encompasses areas east of the Nashua River and the Squannassit ACEC encompasses areas west of the Nashua River. While separate ACEC's, they share the same Nashua River wildlife corridor and the associated resource areas. Resources within the ACEC include water supplies, habitat resources, water bodies, and natural open space. Approximately 66% of the Petapawag ACEC is comprised of forest and farmland with nearly 30% of the ACEC comprised of protected open space.

Development Impacts

The projects proposed BMPs are consistent with the MassDEP Stormwater Management Handbook for discharges near critical areas and meet or exceed the requirement for all the

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areas noted above. The stormwater management system will be designed to capture and treat the first 1.0-inch of runoff and includes deep sump hooded catch basins and sediment forebays to remove at least 44-percent of the TSS from the runoff generated from impervious areas. Additionally, suitable practices for source control and pollution prevention are also identified in the Long-Term Pollution Prevention Plan (LTPPP) included with this submittal.

3.3.3 Subsurface Waters

No adverse impacts to subsurface water are anticipated. It is expected that by meeting the performance standards of State and Local regulations for septic systems and stormwater management system, they are designed to protect the public health and are not expected to have an adverse impact on the environment or the adjacent lands (see sections 2.3 and 2.4 above for additional information).

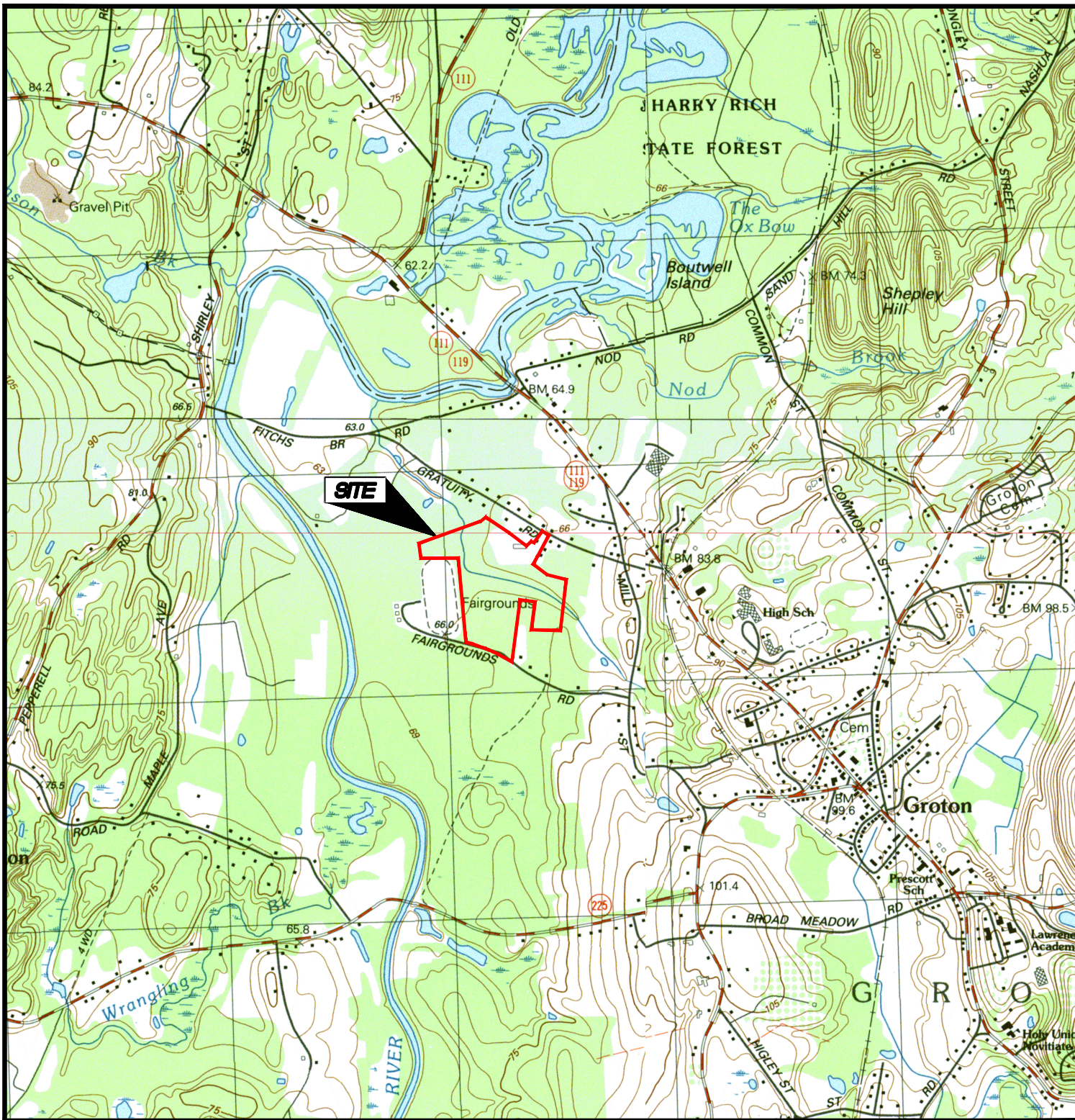
3.3.4 Wildlife

The development of any project has impacts on wildlife habitats in the immediate area. The proposed development is surrounded by a combination of open space areas, residential developments and public use properties. The designated open space provides a natural wildlife corridor continuously through the property and not expected to significantly impact wildlife on-site.

The site does not fall within an Estimated Habitat of Rare Wildlife or a Priority Habitat of Rare Species and therefore the project is not expected to have any adverse effects on endangered species. No work is proposed within 800 feet of a certified vernal pool.

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Groton, MA**

APPENDIX A. LOCUS MAPS



**U.S.G.S. QUADRANGLE
LOCUS MAP**

Scale: 1"=2,000' JULY 24, 2024

63 GRATUITY ROAD
GROTON, MA



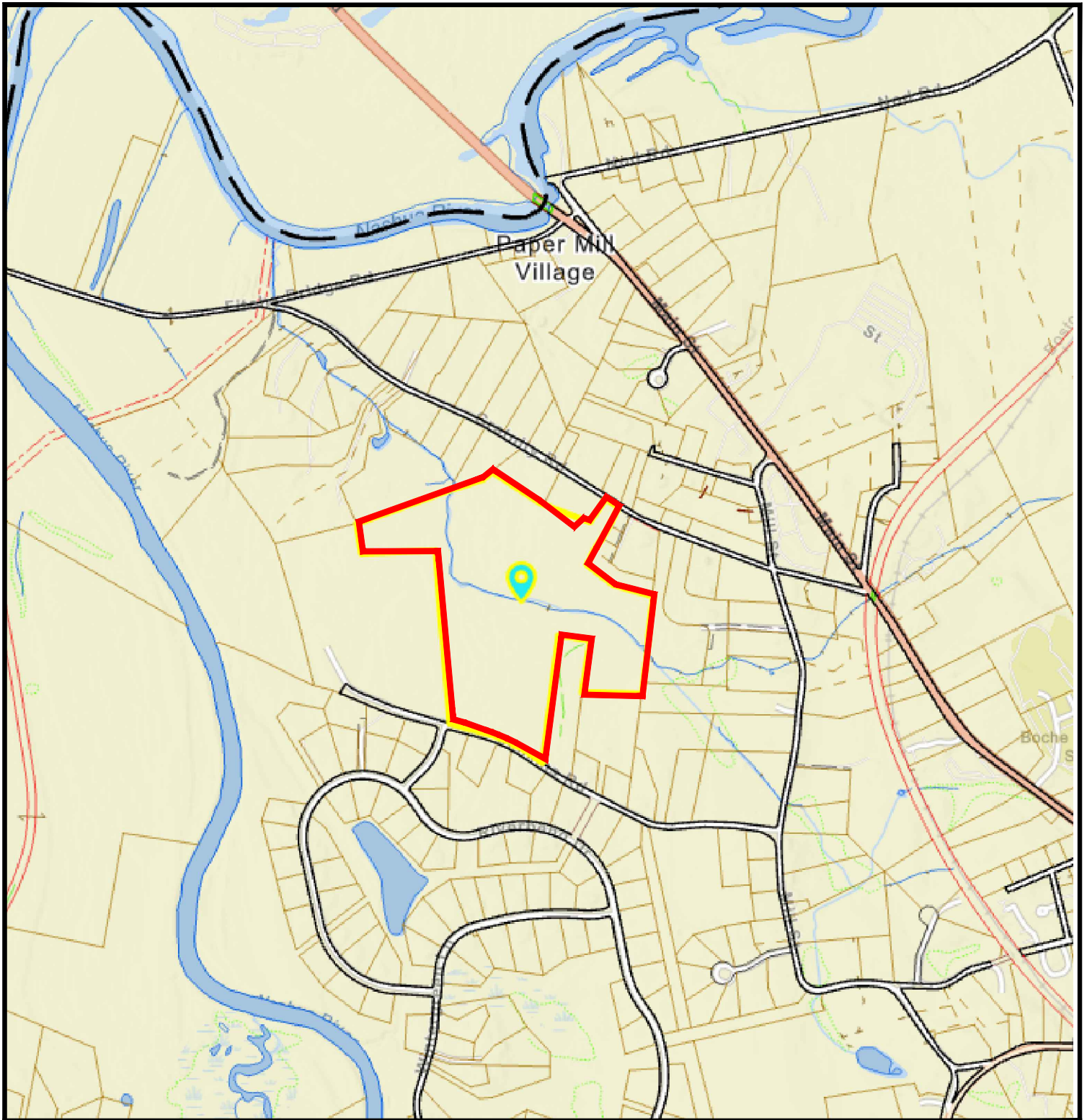
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Job No. 22-243



LOCUS MAP GROTON GIS

Scale: 1" = 1,000'

JULY 23, 2024

63 GRATUITY ROAD
GROTON, MA

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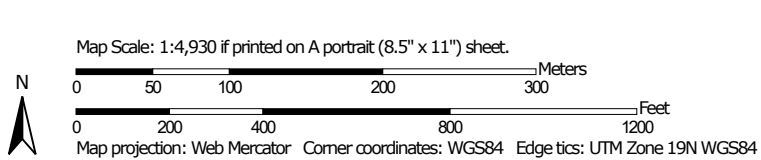
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Job No. 22-243

**63 Gratuity Road
Groton, MA**

APPENDIX B. SOIL REPORTS

Soil Map—Middlesex County, Massachusetts
(63 Gratuity Rd, Groton, MA 01450)



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Middlesex County, Massachusetts
Survey Area Data: Version 23, Sep 12, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 22, 2022—Jun 5, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
253A	Hinckley loamy sand, 0 to 3 percent slopes	9.4	19.4%
255A	Windsor loamy sand, 0 to 3 percent slopes	21.9	45.0%
256A	Deerfield loamy fine sand, 0 to 3 percent slopes	17.4	35.7%
Totals for Area of Interest		48.7	100.0%

DEEP OBSERVATION HOLE LOGS

DATE:	<u>May 10, 2024</u>	JOB NO:	<u>22-243</u>
LOCATION:	<u>63 Gratuity Road Groton, MA</u>	PREPARED FOR:	<u>Routhier & Roper Gratuity Road, LLC</u>
ATTENDEES:	<u>Matthew Stangle, LandTech Lagasse Companies, Operator</u>	APPROVING AUTHORITY:	<u>Kalene Gendron NBOH</u>

Number	Depth (inches)	Soil Horizon	Soil Color	Soil Description
TH-1	0-6	A	10Y/R 3/2	Sandy Loam
	6-16	B	10Y/R 6/8	Loamy Sand
	16-72	C	2.5Y5/2	Medium-Course Sand
Notes:	No Refusal	Water @ 36"	ESHWT @ 24"	
TH-2	0-6	A	10Y/R 3/2	Sandy Loam
	6-18	B	10Y/R 6/8	Loamy Sand
	18-72	C	2.5Y5/2	Medium-Course Sand
Notes:	No Refusal	Water @ 36"	ESHWT @ 24"	
TH-3	0-6	A	10Y/R 3/2	Sandy Loam
	6-16	B	10Y/R 6/8	Loamy Sand
	16-84	C	2.5Y5/2	Medium-Course Sand
Notes:	No Refusal	Water @ 45"	ESHWT @ 32"	
TH-4	0-6	A	10Y/R 3/2	Sandy Loam
	6-18	B	10Y/R 6/8	Loamy Sand
	18-96	C	2.5Y5/2	Medium-Course Sand
Notes:	No Refusal	Water @ 45"	ESHWT @ 32"	

Number	Depth (inches)	Soil Horizon	Soil Color	Soil Description
TH-5	0-18	A	10Y/R 3/2	Sandy Loam
	18-24	B	10Y/R 6/8	Loamy Sand
	24-78	C	2.5Y5/2	Medium-Course Sand
Notes:	No Refusal	Water @ 24"	ESHWT @ 18"	
TH-6	0-18	A	10Y/R 3/2	Sandy Loam
	18-24	B	10Y/R 6/8	Loamy Sand
	24-84	C	2.5Y5/2	Medium-Course Sand
Notes:	No Refusal	Water @ 24"	ESHWT @ 18"	
TH-7	0-16	A	10Y/R 3/2	Sandy Loam
	16-24	B	10Y/R 6/8	Loamy Sand
	24-78	C	2.5Y5/2	Medium-Course Sand
Notes:	No Refusal	Water @ 24"	ESHWT @ 16"	
TH-8	0-12	A	10Y/R 3/2	Sandy Loam
	12-18	B	10Y/R 6/8	Loamy Sand
	18-72	C	2.5Y5/2	Medium-Course Sand
Notes:	No Refusal	Water @ 24"	ESHWT @ 18"	

Percolation Tests

<u>Number</u>	<u>Depth (inches)</u>	<u>Rate</u>	<u>Notes</u>
P-A	28"	2 MPI	24 gallons applied, could not soak.
P-B	28"	2 MPI	24 gallons applied, could not soak.

DEEP OBSERVATION HOLE LOGS

DATE:	<u>May 10, 2024</u>	JOB NO:	<u>22-243</u>
LOCATION:	<u>63 Gratuity Road Groton, MA</u>	PREPARED FOR:	<u>Routhier & Roper Gratuity Road, LLC</u>
ATTENDEES:	<u>Matthew Stangle, LandTech</u>	APPROVING AUTHORITY:	<u>Unofficial (Stormwater)</u>

Number	Depth (inches)	Soil Horizon	Soil Color	Soil Description
TH-101	0-12	A	10Y/R 3/2	Sandy Loam
	12-16	B	10Y/R 6/8	Loamy Sand
	16-72	C	2.5Y5/2	Medium-Course Sand
Notes:	No Refusal	Water @ 52"	ESHWT @ 42"	
TH-102	0-8	A	10Y/R 3/2	Sandy Loam
	8-18	B	10Y/R 6/8	Loamy Sand
	18-60	C	2.5Y5/2	Medium-Course Sand
Notes:	No Refusal	Water @ 48"	ESHWT @ 40"	
TH-103	0-8	A	10Y/R 3/2	Sandy Loam
	8-16	B	10Y/R 6/8	Loamy Sand
	16-66	C	2.5Y5/2	Medium-Course Sand
Notes:	No Refusal	Water @ 52"	ESHWT @ 36"	
TH-104	0-8	A	10Y/R 3/2	Sandy Loam
	8-16	B	10Y/R 6/8	Loamy Sand
	16-60	C	2.5Y5/2	Medium-Course Sand
Notes:	No Refusal	Water @ 36"	ESHWT @ 32"	

Number	Depth (inches)	Soil Horizon	Soil Color	Soil Description
TH-105	0-12	A	10Y/R 3/2	Sandy Loam
	12-16	B	10Y/R 6/8	Loamy Sand
	16-48	C	2.5Y5/2	Medium-Course Sand
Notes:	No Refusal	Water @ 32"	ESHWT @ 20"	
TH-106	0-12	A	10Y/R 3/2	Sandy Loam
	12-18	B	10Y/R 6/8	Loamy Sand
	18-48	C	2.5Y5/2	Medium-Course Sand
Notes:	No Refusal	Water @ 36"	ESHWT @ 24"	
TH-107	0-8	A	10Y/R 3/2	Sandy Loam
	8-16	B	10Y/R 6/8	Loamy Sand
	16-54	C	2.5Y5/2	Medium-Course Sand
Notes:	No Refusal	Water @ 32"	ESHWT @ 20"	

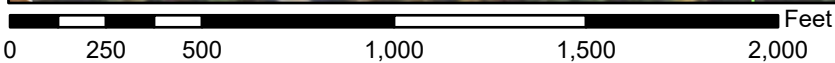
**63 Gratuity Road
Groton, MA**

APPENDIX C. FEMA FIRM MAP

National Flood Hazard Layer FIRMMette



71°35'57"W 42°37'20"N



1:6,000

71°35'19"W 42°36'53"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
MAP PANELS		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

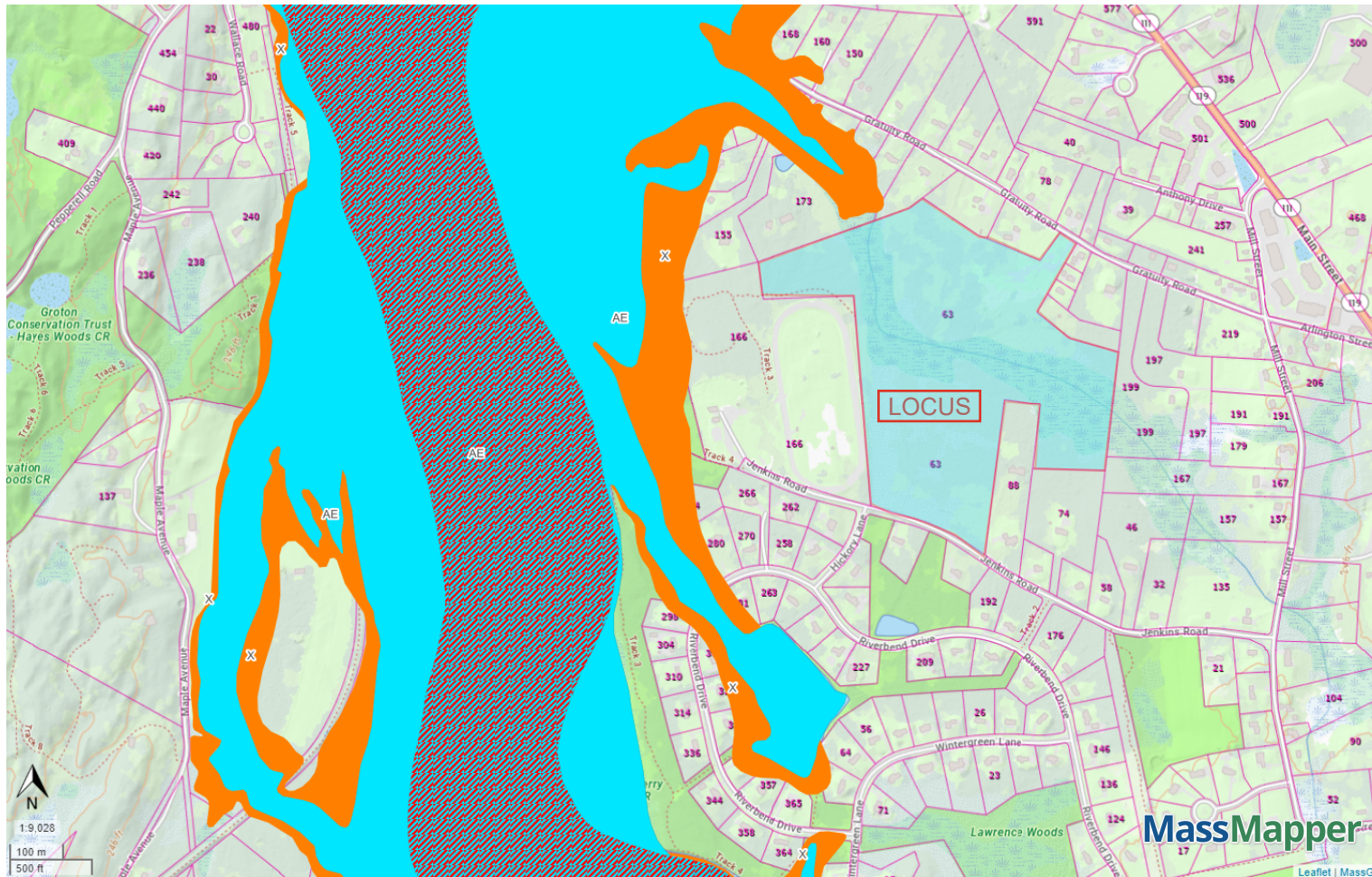


This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **8/1/2024 at 1:38 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

FEMA - GIS



FEMA National Flood Hazard Layer Polygons

- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- Area of Undetermined Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Area with Reduced Risk Due to Levee
- Area Not Included

Property Tax Parcels

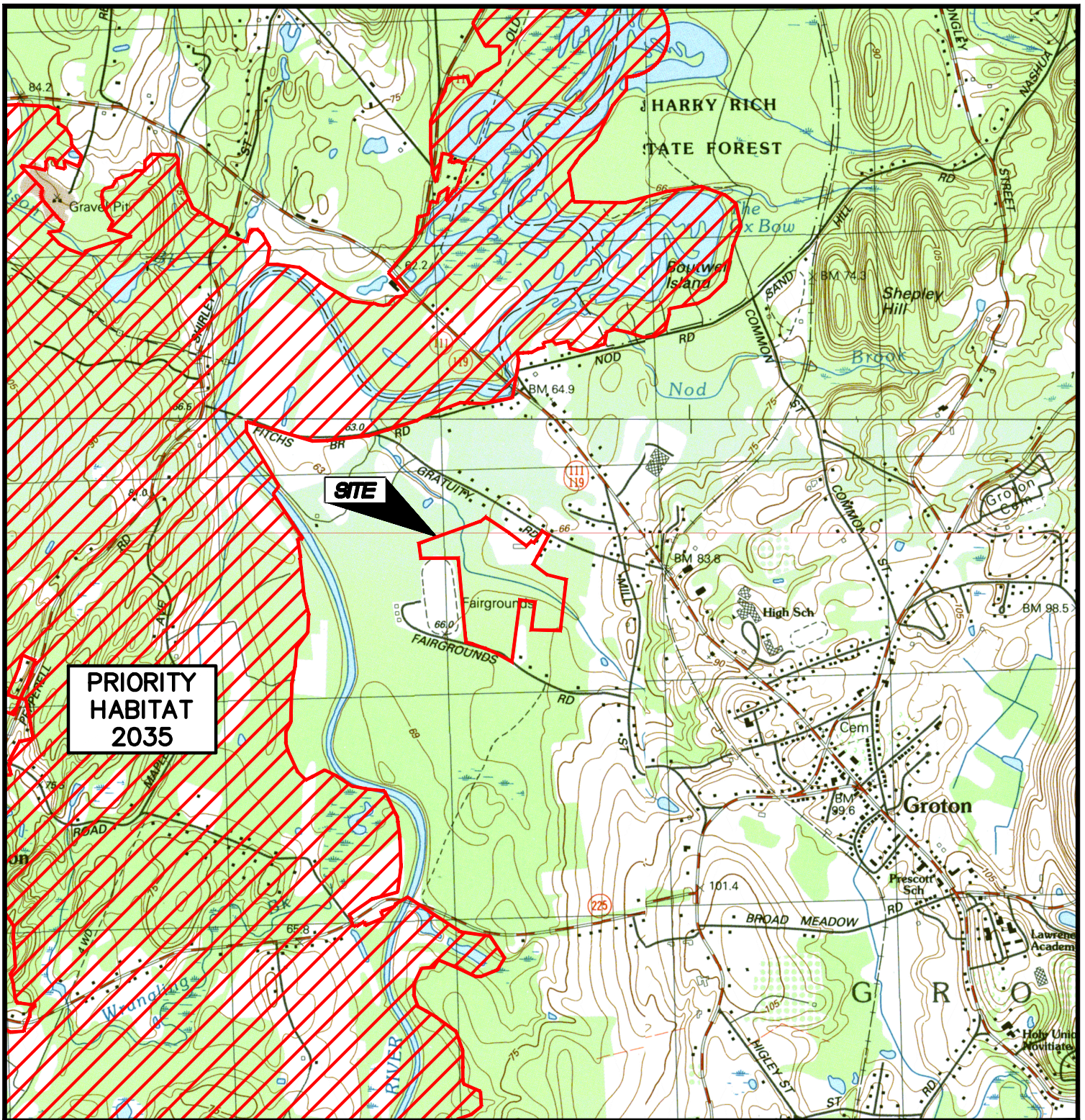
LEGEND

[HTTPS://MAPS.MASSGIS.DIGITAL.MASS.GOV](https://maps.massgis.digital.mass.gov)

FEMA National Flood Hazard Layer
63 GRATUITY ROAD, GROTON, MA 01450

**63 Gratuity Road
Groton, MA**

APPENDIX D. NHESP MAP



**PRIORITY
HABITAT
2035**

SITE

**NATURAL HERITAGE (NHESP) MAP
ESTIMATED HABITAT OF RARE WILDLIFE**

Scale: 1"=2,000' JULY 24, 2024

63 GRATUITY ROAD
GROTON, MA

LandTech
Consultants

515 Groton Road • Westford, MA 01886 • (978) 692-6100 • www.landtechinc.com

Prepared for: ROUTHIER & ROPER GRATUITY ROAD, LLC
256 AYER ROAD
LITTLETON, MA 01460

Draft: MJS
Job No. 22-243

**63 Gratuity Road
Groton, MA**

**APPENDIX E – ORDER OF RESOURCE AREA DELINEATION
(WITH EXTENSION PERMIT)**

Middlesex South Registry of Deeds
Electronically Recorded Document

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Recording Information

Document Number	: 30139
Document Type	: ORD
Recorded Date	: March 28, 2023
Recorded Time	: 10:24:15 AM
Recorded Book and Page	: 81367 / 101
Number of Pages(including cover sheet)	: 6
Receipt Number	: 2899486
Recording Fee	: \$105.00

Middlesex South Registry of Deeds
Maria C. Curtatone, Register
208 Cambridge Street
Cambridge, MA 02141
617-679-6300
www.middlesexsouthregistry.com

Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 4B - Order of Resource Area Delineation
 Massachusetts Wetlands Protection Act M.G.L. c. 131 S40

Provided by MassDEP:
 MassDEP File #:169-1190
 eDEP Transaction #:1153037
 City/Town:GROTON

A. General Information

1. Conservation Commission GROTON

2. This Issuance is for (Check one):

- a. Order of Resource Area Delineation
- b. Amended Order of Resource Area Delineation

3. Applicant Details

a. First Name	RICK	b. Last Name	ROPER	
c. Organization	ROUTHIER AND ROPER GRATUITY ROAD LLC			
d. Mailing Address	256 AYER ROAD			
e. City/Town	LITTLETON	f. State	MA	g. ZIP 01460

4. Property Owner (if different from applicant):

a. First Name	RICK	b. Last Name	ROPER	
c. Organization	ROUTHIER AND ROPER GRATUITY ROAD LLC			
d. Mailing Address	256 AYER ROAD			
e. City/Town	LITTLETON	f. State	MA	g. ZIP 01460

5. Project Location

a. Street Address	63 GRATUITY ROAD			
b. City/Town	GROTON	c. Zip	01450	
d. Assessors Map/Plat#	216	e. Parcel/Lot#	47	
f. Latitude	42.61971N	g. Longitude	71.59284W	

6. Dates

a. Date ANRAD Filed	6/21/2019	b. Date Public Hearing Closed	11/12/2019	c. Date Of Issuance	11/12/2019
---------------------	-----------	-------------------------------	------------	---------------------	------------

7. Final Approved Plans and Other Documents

Plan Title	Plan Prepared By	Plan Signed By	Plan Final Date	Plan Scale
"WETLAND BOUNDARY PLAN OF LAND IN GROTON, S. J. MULLANEY MASSACHUSETTS LOCATED AT 63 GRATUITY ROAD"	ENGINEERING, INC.	STEPHEN J. MULLANEY, R.P.E.	10/03/2019	1" = 40'
"GRATUITY BROOK MONITORING REPORT, GROTON, MA"	CREATIVE LAND & WATER ENGINEERING, LLC	DESHENG WANG, R.P.E.	10/4/2019	N/A

B. Order of Delineation

1. The Conservation Commission has determined the following (check whichever is applicable)

a. **Accurate:** The boundaries described on the referenced plan(s) above and in the Abbreviated Notice of Resource Area Delineation are accurately drawn for the following resource area(s):

- 1. Bordering Vegetated Wetlands
- 2. Other resource area(s), specifically

MARGINAL REFERENCE REQUESTED

BK 71686 PG 80 DOC TYPE Deed

Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
**WPA Form 4B - Order of Resource Area
 Delineation**

Provided by MassDEP:
 MassDEP File #:169-1190
 eDEP Transaction #:1153037
 City/Town:GROTON

Massachusetts Wetlands Protection Act M.G.L. c. 131 S40

a.1. THE DELINEATION OF THE BORDERING VEGETATED WETLAND AS SHOWN ON THE PLAN ENTITLED ? WETLAND BOUNDARY PLAN OF LAND IN GROTON, MASSACHUSETTS LOCATED AT 63 GRATUITY ROAD, PREPARED BY S. J. MULLANEY ENGINEERING, INC., PREPARED FOR ROUTHIER & ROPER GRATUITY ROAD, LLC, DATED 06/10/2019, MOST RECENTLY REVISED 10/03/2019? IS APPROVED. 2. THE STREAM IS FOUND TO BE INTERMITTENT UNDER THE WETLANDS PROTECTION ACT. THIS APPLIES ONLY TO THE PORTION OF THE STREAM FROM WETLAND FLAG ?CLW-4? (DOWNSTREAM) TO ?CLW-70? (UPSTREAM) AS SHOWN ON THE AFOREMENTIONED PLAN. 3. THIS APPROVAL DOES NOT INCLUDE THE PRESENCE OR ABSENCE OF BORDERING LANDS SUBJECT TO FLOODING.

b. **Modified:** The boundaries described on the plan(s) referenced above, as modified by the Conservation Commission from the plans contained in the Abbreviated Notice of Resource Area Delineation, are accurately drawn from the following resource area(s):

1. Bordering Vegetated Wetlands
2. Other resource area(s), specifically
 - a.

c. **Inaccurate::** The boundaries described on the referenced plan(s) and in the Abbreviated Notice of Resource Area Delineation were found to be inaccurate and cannot be confirmed for the following resource area(s):

1. Bordering Vegetated Wetlands
2. Other resource area(s), specifically
 - a.

3. The boundaries were determined to be inaccurate because:

C. Findings

This Order of Resource Area Delineation determines that the boundaries of those resource areas noted above, have been delineated and approved by the Commission and are binding as to all decisions rendered pursuant to the Massachusetts Wetlands Protection Act (M.G.L. c.131, S 40) and its regulations (310 CMR 10.00). This Order does not, however, determine the boundaries of any resource area or Buffer Zone to any resource area not specifically noted above, regardless of whether such boundaries are contained on the plans attached to this Order or to the Abbreviated Notice of Resource Area Delineation. This Order must be signed by a majority of the Conservation Commission. The Order must be sent by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed or hand delivered at the same time to the appropriate DEP Regional Office (see <http://www.mass.gov/dep/about/region/findyour.htm>).

D. Appeals

The applicant, the owner, any person aggrieved by this Order, any owner of land abutting the land subject to this Order, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate DEP Regional Office to issue a Superseding Order of Resource Area Delineation. When requested to issue a Superseding Order of Resource Area Delineation, the Department's review is limited to the objections to the resource area delineation(s) stated in the appeal request. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and a completed Request for Departmental Action Fee Transmittal Form, as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Order. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant. Any appellants seeking to appeal the Department's Superseding Order of Resource Area Delineation will be required to demonstrate prior participation in the review of this project. Previous participation in the permit proceeding means the submission of written information to the Conservation Commission prior to the close of the public hearing, requesting a Superseding Order or Determination, or providing written information to the Department prior to issuance of a Superseding Order or Determination. The request shall state clearly and concisely the objections to the Order which is being appealed and how the Order does not contribute to the protection of the interests identified in the Massachusetts Wetlands Protection Act, (M.G.L. c. 131, S 40) and is inconsistent with the wetlands regulations (310 CMR 10.00). To the extent that the Order is based on a municipal bylaw or ordinance, and not on the Massachusetts Wetlands Protection Act or regulations, the Department of Environmental Protection has no appellate jurisdiction.


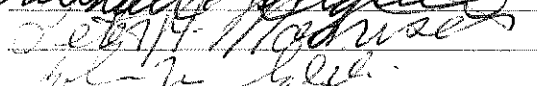
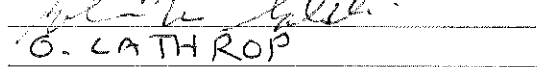
Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
**WPA Form 4B - Order of Resource Area
Delineation**
Massachusetts Wetlands Protection Act M.G.L. c. 131 S40

Provided by MassDEP:
MassDEP File #:169-1190
eDEP Transaction #:1153037
City/Town:GROTON

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 4B - Order of Resource Area
Delineation
Massachusetts Wetlands Protection Act M.G.L. c. 131 S40

Provided by MassDEP:
MassDEP File #:169-1190
eDEP Transaction #:1153037
City/Town:GROTON

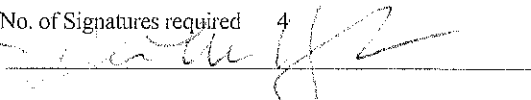
E. Signatures




G. LATHROP

1. Date of Original Order

2. No. of Signatures required

4



This Order is valid for three years from the date of issuance.

If this Order constitutes an Amended Order of Resource Area Delineation, this Order does not extend the issuance date of the original Final Order, and the Amended Order will expire on the date of the Original Final Order unless extended in writing by the Department.

This Order is issued to the applicant and the property owner (if different) as follows:

3. By hand delivery on

4. By certified mail, return receipt requested on

a. Date _____

a. Date _____

ATTACHMENT TO WETLANDS PROTECTION ACT ORDER OF RESOURCE AREA
DELINEATION

SPECIAL CONDITIONS

#169-1190

Street – 63 Gratuity Road; Map 217 Parcel 47

Applicant – Routhier & Roper Gratuity Road, LLC

This Order of Resource Area Delineation is written under and subject to the Massachusetts Wetlands Protection Act M.G.L. Ch. 131 §40, as amended.

At its regularly scheduled meeting on November 12, 2019, the Groton Conservation Commission voted to issue the enclosed Order of Resource Area Delineation with the following **FINDINGS**:

1. The delineation of the Bordering Vegetated Wetland as shown on the plan entitled “Wetland Boundary Plan of Land in Groton, Massachusetts Located at 63 Gratuity Road, prepared by S. J. Mullaney Engineering, Inc., prepared for Routhier & Roper Gratuity Road, LLC, dated 06/10/2019, most recently revised 10/03/2019” is approved.
2. The stream is found to be intermittent under the Wetlands Protection Act. This applies only to the portion of the stream from wetland flag “CLW-4” (downstream) to “CLW-70” (upstream) as shown on the aforementioned plan.
3. This approval does not include the presence or absence of Bordering Lands Subject to Flooding.

PLANS: The work shall conform to the following plans and documents, unless otherwise specified in this Order:

- a) Plan entitled: “Wetland Boundary Plan of Land in Groton, Massachusetts Located At 63 Gratuity Road”, Prepared by S. J. Mullaney Engineering, Inc., Stamped by Stephen J. Mullaney, R.P.E.
- b) Report entitled “Gratuity Brook Monitoring Report” , 19 Pages, prepared by Creative Land & Water Engineering, LLC., stamped by Desheng Wang R.P.E., dated , most recently revised .”
- c) ANRAD Application filed by Desheng Wang, Creative Land & Water Engineering, LLC, on behalf of Routhier & Roper Gratuity Road, LLC, MassDEP#169-1190.

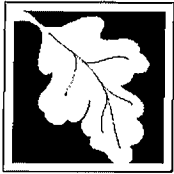
Middlesex South Registry of Deeds
Electronically Recorded Document

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Recording Information

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Document Type	: EXT
Recorded Date	: February 21, 2024
Recorded Time	: 11:50:28 AM
Recorded Book and Page	: 82500 / 106
Number of Pages(including cover sheet)	: 4
Receipt Number	: 2978522
Recording Fee	: \$105.00

Middlesex South Registry of Deeds
Maria C. Curtatone, Register
208 Cambridge Street
Cambridge, MA 02141
617-679-6300
www.middlesexsouthregistry.com



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands

DEP File Number:

WPA Form 7 – Extension Permit for Orders of Conditions

169-1190

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by DEP

A. General Information

Important:
 When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. Applicant:

Rick Roper (Routher and Roper Gratuity Road LLC.
 Name

256 Ayer Road
 Mailing Address

Littleton MA 01460
 City/Town State Zip Code

2. Property Owner (if different):

 Name

 Mailing Address

 City/Town State Zip Code

B. Authorization

The Order of Conditions (or Extension Permit) issued to the applicant or property owner listed above on:

1/23/2024 Issued by: Town of Groton Conservation Commission
 Date Conservation Commission

for work at: 63 Gratuity Road 216/47
 Street Address Assessor's Map/Plat Number Parcel/Lot Number

recorded at the Registry of Deeds for:

Middlesex South Registry of Deeds 71686 80
 County Book Page

 Certificate (if registered land)

is hereby extended until: September 16th, 2024 _____
 Date Date the Order was last extended (if applicable)

This date can be no more than 3 years from the expiration date of the Order of Conditions or the latest extension. Only unexpired Orders of Conditions or Extension may be extended.

This Extension Permit must be signed by a majority of the Conservation Commission and a copy sent to the applicant and the appropriate DEP Regional Office (<https://www.mass.gov/service-details/massdep-regional-offices-by-community>).

MARGINAL REFERENCE REQUESTED
 BK 81367 PG 101 DOC TYPE OOC



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

DEP File Number:

WPA Form 7 – Extension Permit for Orders of Conditions
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

169-1190
Provided by DEP

B. Authorization (cont.)

January 23rd, 2024
Issue Date (mm/dd/yyyy)

Signatures:

Eileen McHugh
Signature

Eileen McHugh
Printed Name

O. LATHROP
Signature

Olin Lathrop
Printed Name

Larry Hurley
Signature

Larry Hurley
Printed Name

Peter Morrison
Signature

Peter Morrison
Printed Name

Signature

John Smigelski
Printed Name

Signature

Bruce Easom
Printed Name

Signature

Alison Hamilton
Printed Name

Signature

Printed Name



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

DEP File Number:

WPA Form 7 – Extension Permit for Orders of Conditions

169-1190
Provided by DEP

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

C. Recording Confirmation

The applicant shall record this document in accordance with General Condition 8 of the Order of Conditions (see below), complete the form attached to this Extension Permit, have it stamped by the Registry of Deeds, and return it to the Conservation Commission.

Note: General Condition 8 of the Order of Conditions requires the applicant, prior to commencement of work, to record the final Order (or in this case, the Extension Permit for the Order of Conditions) in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, it shall be noted in the Registry's Granter Index under the name of the owner of the land upon which the proposed work is to be done. In the case of registered land, it shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done.

Detach this page and submit it to the Conservation Commission prior to the expiration of the Order of Conditions subject to this Extension Permit.

To:

Conservation Commission

Please be advised that the Extension Permit to the Order of Conditions for the project at:

Project Location

DEP File Number

has been recorded at the Registry of Deeds of:

County

for:

Property Owner

and has been noted in the chain of title of the affected property in accordance with General Condition 8 of the original Order of Conditions on:

Date

Book

Page

If recorded land the instrument number which identifies this transaction is:

Instrument Number

If registered land, the document number which identifies this transaction is:

Document Number

Signature of Applicant

**63 Gratuity Road
Groton, MA**

APPENDIX F. DRAINAGE REPORT
(Under a separate cover)

**63 Gratuity Road
Groton, MA**

APPENDIX G. SITE PLAN
(Under a separate cover)