

**ANDOVER PLANNING BOARD**

**APPLICATION FOR SPECIAL PERMIT  
FOR EARTH MOVEMENT**

(Section 6.3. of the Andover Zoning Bylaw)

**APPLICATION MUST BE COMPLETE**

(Please print or type)

This application, completed and signed, shall be submitted with 18 copies of the application and narrative, 12 copies of the plans, 1 CD with PDFs of the plans and 7 copies of any drainage report.

Application is hereby made for a Special Permit for removal and/or regrading of Earth Materials pursuant to Section 6.3 of the Zoning By-Law and Section 3.0 of the Rules Governing Special Permits of the Andover Planning Board.

1. Applicant(s): \_\_\_\_\_  
    Contact Name: \_\_\_\_\_  
    Mailing Address: \_\_\_\_\_  
    Telephone Number: \_\_\_\_\_
  
2. Record Owner(s) Name: \_\_\_\_\_  
    Mailing Address: \_\_\_\_\_
  
3. Interest in Property: \_\_\_\_\_ Owner \_\_\_\_\_ Other \_\_\_\_\_  
    (Describe): \_\_\_\_\_
  
4. Engineer: \_\_\_\_\_  
    Contact Name: \_\_\_\_\_  
    Mailing Address: \_\_\_\_\_  
    Telephone Number: \_\_\_\_\_  
    Name of Professional Surveyor: \_\_\_\_\_ PLS # \_\_\_\_\_
  
5. Name of Subdivision: \_\_\_\_\_
  
6. Square footage of roadway construction land disturbance: \_\_\_\_\_
  
7. Square footage of total land disturbance: \_\_\_\_\_  
    (Attach a breakdown of land disturbance for roadway construction including drainage system and each individual lot.)



8. Property Address: Bancroft Road  
Assessors Map 59 Lot(s) 30  
Zoning District(s) including overlay districts: SRB

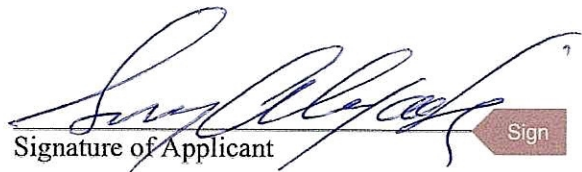

9. Site Information: The application shall include an engineering report and plan which provides information on all of the following in narrative and graphic detail:
- a. Site soil types and boundaries based on U.S.D.A. S.C.S standards;
  - b. Areas of steep slopes, i.e. greater than 15%;
  - c. Predominant site vegetation, including existing cleared areas;
  - d. Locations of ledge/rock outcroppings;
  - e. Locations of standing water, wetlands, and perennial or intermittent streams;
  - f. Proposed locations of earth material stockpiles;
  - g. Maximum depth and width of proposed cuts;
  - h. Volume of earth materials to be removed from the site;
  - i. Type(s) of earth materials to be removed;
  - j. Destination(s) of material to be removed;
  - k. Estimated number of truckloads of materials;
  - l. Proposed schedule of removal operations;
  - m. Volume of earth materials to be regarded on the site;
  - n. Proposed soil and slope stabilization program;
  - o. Certified statement by the engineer that the data submitted to the Board is accurate;

The Applicant shall satisfactorily demonstrate to the Board that the subdivision plan associated with the request for removal and/or regarding makes the best feasible use of the existing topography of the site.

  
Signature of Record Owner 

Greg Alexandris  
Print Name

Date

  
Signature of Applicant 

Same  
Print Name

Date



# REPORT TO ACCOMPANY APPLICATION FOR SPECIAL PERMIT FOR EARTH MOVEMENT

9 Bancroft Road, Andover, Massachusetts

## Introduction

**Description:** The site is located at 9 Bancroft Road between South Main Street (Rt. 28) and Holt Road in Andover, Massachusetts and consists of approximately 3.9± acres. The project involves subdividing one (1) lot into three (3) lots, two (2) parcels and a local road (Eden Lane). Topography generally slopes from the easterly boundary of the property to the northwest corner of the site along Bancroft Road. The existing vegetation mainly consists of grass areas with a tree line area along the perimeter of the property. The soils as mapped by the Natural Resource Conservation Service (NRCS) are mainly Woodbridge Series (fine sandy loam).

## 7. Land Disturbances:

| Description    | Disturbance (s.f.) |               | Total Area (s.f.) | Volume (c.y.) |              |              |              | Volume Export (c.y.) |
|----------------|--------------------|---------------|-------------------|---------------|--------------|--------------|--------------|----------------------|
|                | Cut                | Fill          |                   | Cut           | Basement     | Tot. Cut     | Fill         |                      |
| Roadway        | 15,813             | 8,834         | 24,646            | 1,190         | -            | 1,190        | 328          | 862                  |
| Lot 1          | 23,905             | 1,482         | 25,386            | 1,169         | 230          | 1,399        | 17           | 1,382                |
| Lot 2          | 6,625              | 12,297        | 18,921            | 199           | 370          | 569          | 572          | (4)                  |
| Lot 3          | 5,111              | 9,471         | 14,581            | 103           | 420          | 523          | 375          | 148                  |
| Parcel A       | -                  | -             | -                 | -             | -            | -            | -            | -                    |
| Parcel B       | 9,706              | 14,717        | 24,423            | 344           | -            | 344          | 619          | (275)                |
| <b>TOTALS:</b> | <b>61,158</b>      | <b>46,800</b> | <b>107,958</b>    | <b>3,004</b>  | <b>1,020</b> | <b>4,024</b> | <b>1,912</b> | <b>2,113</b>         |

<sup>1</sup>Includes excavation for basements

<sup>2</sup>Negative numbers indicate Cut

## 9. Site Information

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- a. *Site soil type and boundaries based on U.S.D.A. Natural Resource Conservation Service Standards:*

The soils within the project consist of the Woodbridge fine sandy loam series. Refer to the Soils Map at the end of this report and the Existing Conditions Plan (Definitive Subdivision Plan Set, Sheets 3 of 7).

- b. *Areas of Steep Slopes, i.e. greater than 15%:*

There are a few small areas within the site that exceed fifteen (15) percent. These areas total approximately 1,500 square feet out of the total area of the site (168,800 square feet). None of these areas exceed twenty-five (25) percent.

- c. *Predominant site vegetation, including existing cleared areas:*

The predominant site vegetation is mainly grass with treed areas along the perimeter of the property. Treed areas include various species including oak and maple.

- d. *Locations of ledge/rock outcroppings:*

No areas of ledge/rock outcroppings were observed on the site.

- e. *Locations of standing water, wetlands, and perennial or intermittent streams:*

There are no wetland areas that exist on the property.

- f. *Proposed locations of earth material stockpiles:*

The location of the earth material stockpile will be between lots 1 and 2 as shown on the Grading & Erosion Control Plan (sheet 4 of 7). Note that there are no wetlands within 100 feet of the earth material stockpile.

- g. *Maximum depth and width of proposed cuts:*

The depth of cuts varies with the greatest depth being approximately 2.5 feet. With the excavation for the foundations, some cuts may be approximately 6.5 feet. Refer to the Earthwork Exhibit in this report.

- h. *Volume of earth materials to be removed from the site:*

No material export is anticipated to balance the site.

- i. *Type(s) of earth materials to be removed:*

The primary earth material to be removed from the site is the Woodbridge soil series. This series consists of moderately well drained loamy soils formed in lodgment till. They are very deep to bedrock and moderately deep to a densic contact. They are nearly level to moderately steep soils on hills, drumlins, till plains, and ground moraines. Slope ranges from 0 to 25 percent.

*j. Proposed soil and slope stabilization program:*

- a) Install erosion control measures (Compost Filter Socks or equal) at the downgradient portion of the property to prevent sediment from leaving the site.
- b) Install sediment control measures around all catch basins and Erosion Control Silt Sacks in the basins.
- c) Grade site to bring the roadway to subgrade, install utilities, place binder course of pavement, and loam and seed side slopes.
- d) Construct houses, loam, and seed all disturbed areas.

*k. Destination(s) of materials to be removed:*

Any export from the site is expected to be transported to 39 Sunset Rock Road.

*l. Estimated number of truckloads of materials:*

Assuming an average of eighteen (18) cubic yards per truck, the estimated number of truckloads of materials is one hundred (117).

*m. Proposed schedule of removal operations:*

Although the schedule of operations is unknown at this time, typically the operation time is between 7:00 am and 5:00 pm.

*n. Volume of earth materials to be re-graded on the site:*

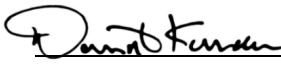
The site cut volume, including foundations and basements, is approximately 4,000 cubic yards and the site fill volume is approximately 1,900 cubic yards. No assumption has been made for shrinkage or expansion in the calculations so the net excess is approximately 2,100 cubic yards.

*o. Proposed soil and slope stabilization program:*

All disturbed areas remaining idle for more than fourteen (14) days shall be stabilized. Disturbed portions of the site where construction activities have permanently ceased shall be hydroseeded within three weeks of completion. All disturbed areas shall be loamed and seeded within six (6) months from the start of that lot construction.

*p. Certified statement by the engineer that the date submitted to the Board is accurate:*

I certify that to the best of my knowledge, the information presented in this report is accurate.

  
Prepared by: Daniel Koravos, P.E.  
Date: May 15, 2024



## **Norse Environmental Services Test Pit Data**

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December 12, 2022

**See Following Page**



# Soil Suitability Assessment

Site: 9 Bancroft Street

City/Town: Andover, MA

Soil Evaluator/Soil Scientist: Maureen Herald – Norse Environmental Services, Inc.

## A. Facility Information

1. Owner Information:

Greg Alexandris

Street Address:

9 Bancroft Street

Town:

Andover

MA

01810

City/Town

State

Zip Code

## B. Site Information

1. (Check one) New Construction  Upgrade  Repair

2. Published Soil Survey available? Yes  No  If yes: Web Soil Survey 1"=1410 310  
Year Published Publication Scale Soil Map Unit  
Woodbridge None  
Soil Name Soil limitations

3. Surficial Geological Report available? Yes  No  If yes: \_\_\_\_\_  
Year Published Publication Scale Map Unit

Geologic Material

Landform

4. Flood Rate Insurance Map:

Above the 500-year flood boundary? Yes  No  Within the 100-year flood boundary? Yes  No   
Within the 500-year flood boundary? Yes  No  Within a Velocity Zone? Yes  No

5. Wetland Area: National Wetland Inventory Map

Map Unit

Name

Wetlands Conservancy Program Map

Map Unit

Name

6. Current Water Resource Conditions (USGS) Aug/2022 Range: Above Normal  Normal  Below Normal   
Month/Year

7. Other references reviewed: \_\_\_\_\_

# Soil Suitability Assessment

Site: 9 Bancroft Street

City/Town: Andover, MA

Soil Evaluator/Soil Scientist: Maureen Herald – Norse Environmental Services, Inc.

## C. On-Site Review

**Deep Observation Hole Number:** DH 1 – DH 4      12/12/22      10:00 a.m.      Cloudy - 33F  
Date      Time      Weather

1. Location

Ground Elevation at Surface of Hole: See Plan

Location (Identify on Plan): See Plan

2. Land Use: Residential site – farm field      None      Varies  
(e.g. woodland, agricultural field, vacant lot, etc.)      Surface Stones      Slope (%)

Grasses  
Vegetation

Drumloldal  
Landform

Back Slope  
Position on landscape (attach sheet)

3. Distances from: Open Water Body >10 ft.      Drainage Way >100 ft.      Possible Wet Area >100 ft.  
feet      feet      feet  
Property Line >10 ft.      Drinking Water Well \_\_\_\_\_      Other \_\_\_\_\_  
feet      feet

4. Parent Material: Glacial Till      Unsuitable Materials Present: Yes  No

If Yes: Disturbed Soil  Fill Material  Impervious Layer(s)  Weathered/Fractured Rock  Bedrock

5. Groundwater Observed: Yes  No  - Varies throughout the Deep Holes – See next page

If Yes: Depth Weeping from Pit \_\_\_\_\_      Depth Standing Water in Hole \_\_\_\_\_

Estimated Depth to High Groundwater: \_\_\_\_\_      \_\_\_\_\_  
inches      elevation

# Soil Suitability Assessment

Site: 9 Bancroft Street

City/Town: Andover, MA

Soil Evaluator/Soil Scientist: Maureen Herald – Norse Environmental Services, Inc.

Deep Observation Hole Number: DH-1

| Depth (In.) | Soil Horizon/ Layer | Soil Matrix: Color-Moist (Munsell) | Redoximorphic Features (mottles) |           |         | Soil Texture (USDA) | Coarse Fragments % by Volume |                  | Soil Structure | Soil Consistence (Moist) | Other |
|-------------|---------------------|------------------------------------|----------------------------------|-----------|---------|---------------------|------------------------------|------------------|----------------|--------------------------|-------|
|             |                     |                                    | Depth                            | Color     | Percent |                     | Gravel                       | Cobbles & Stones |                |                          |       |
| 0-14"       | Ap                  | 10YR 2/2                           |                                  |           |         | FSL                 |                              |                  | Granular       | Friable                  |       |
| 14-33"      | Bw                  | 10YR 5/6                           |                                  |           |         | FSL                 |                              |                  | Weak Blocky    | Friable                  |       |
| 33-48"      | C                   | 2.5Y 5/3                           | 43"                              | 7.5YR 5/6 | 20%     | SL                  |                              |                  | Massive        | Friable                  |       |
|             |                     |                                    |                                  |           |         |                     |                              |                  |                |                          |       |
|             |                     |                                    |                                  |           |         |                     |                              |                  |                |                          |       |
|             |                     |                                    |                                  |           |         |                     |                              |                  |                |                          |       |
|             |                     |                                    |                                  |           |         |                     |                              |                  |                |                          |       |

Additional Notes: ESHWT 43" / No Observed Water

# Soil Suitability Assessment

Site: 9 Bancroft Street

City/Town: Andover, MA

Soil Evaluator/Soil Scientist: Maureen Herald – Norse Environmental Services, Inc.

Deep Observation Hole Number: DH-2

| Depth (In.) | Soil Horizon/ Layer | Soil Matrix: Color-Moist (Munsell) | Redoximorphic Features (mottles) |           |         | Soil Texture (USDA) | Coarse Fragments % by Volume |                  | Soil Structure | Soil Consistence (Moist) | Other |
|-------------|---------------------|------------------------------------|----------------------------------|-----------|---------|---------------------|------------------------------|------------------|----------------|--------------------------|-------|
|             |                     |                                    | Depth                            | Color     | Percent |                     | Gravel                       | Cobbles & Stones |                |                          |       |
| 0-14"       | Ap                  | 10YR 2/2                           |                                  |           |         | FSL                 |                              |                  | Granular       | Friable                  |       |
| 14-28"      | Bw                  | 10YR 5/6                           |                                  |           |         | FSL                 |                              |                  | Weak Blocky    | Friable                  |       |
| 28-51"      | C                   | 2.5Y 5/3                           | 32"                              | 7.5YR 5/6 | 20%     | SL                  |                              |                  | Massive        | Friable                  |       |
|             |                     |                                    |                                  |           |         |                     |                              |                  |                |                          |       |
|             |                     |                                    |                                  |           |         |                     |                              |                  |                |                          |       |
|             |                     |                                    |                                  |           |         |                     |                              |                  |                |                          |       |
|             |                     |                                    |                                  |           |         |                     |                              |                  |                |                          |       |

Additional Notes: ESHWT 32" / No Observed Water

# Soil Suitability Assessment

Site: 9 Bancroft Street

City/Town: Andover, MA

Soil Evaluator/Soil Scientist: Maureen Herald – Norse Environmental Services, Inc.

Deep Observation Hole Number: DH-3

| Depth (In.) | Soil Horizon/ Layer | Soil Matrix: Color-Moist (Munsell) | Redoximorphic Features (mottles) |           |         | Soil Texture (USDA) | Coarse Fragments % by Volume |                  | Soil Structure | Soil Consistence (Moist) | Other |
|-------------|---------------------|------------------------------------|----------------------------------|-----------|---------|---------------------|------------------------------|------------------|----------------|--------------------------|-------|
|             |                     |                                    | Depth                            | Color     | Percent |                     | Gravel                       | Cobbles & Stones |                |                          |       |
| 0-14"       | Ap                  | 10YR 2/2                           |                                  |           |         | FSL                 |                              |                  | Granular       | Friable                  |       |
| 14-25"      | Bw                  | 10YR 5/6                           |                                  |           |         | FSL                 |                              |                  | Weak Blocky    | Friable                  |       |
| 25-55"      | C                   | 2.5Y 5/3                           | 43"                              | 7.5YR 5/6 | 15%     | SL                  |                              |                  | Massive        | Friable                  |       |
|             |                     |                                    |                                  |           |         |                     |                              |                  |                |                          |       |
|             |                     |                                    |                                  |           |         |                     |                              |                  |                |                          |       |
|             |                     |                                    |                                  |           |         |                     |                              |                  |                |                          |       |
|             |                     |                                    |                                  |           |         |                     |                              |                  |                |                          |       |

Additional Notes: ESHWT 43"/ No Observed Water

# Soil Suitability Assessment

Site: 9 Bancroft Street

City/Town: Andover, MA

Soil Evaluator/Soil Scientist: Maureen Herald – Norse Environmental Services, Inc.

Deep Observation Hole Number: DH-4

| Depth (In.) | Soil Horiz on/ Layer | Soil Matrix: Color-Moist (Munsell) | Redoximorphic Features (mottles) |           |         | Soil Texture (USDA) | Coarse Fragments % by Volume |                  | Soil Structure | Soil Consistence (Moist) | Other |
|-------------|----------------------|------------------------------------|----------------------------------|-----------|---------|---------------------|------------------------------|------------------|----------------|--------------------------|-------|
|             |                      |                                    | Depth                            | Color     | Percent |                     | Gravel                       | Cobbles & Stones |                |                          |       |
| 0-9"        | Ap                   | 10YR 2/2                           |                                  |           |         | FSL                 |                              |                  | Granular       | Friable                  |       |
| 9-24"       | Bw                   | 10YR 5/6                           |                                  |           |         | FSL                 |                              |                  | Weak Blocky    | Friable                  |       |
| 24-51"      | C                    | 2.5Y 5/4                           | 43"                              | 7.5YR 6/6 | 20%     | SL                  |                              |                  | Massive        | Friable                  |       |
|             |                      |                                    |                                  |           |         |                     |                              |                  |                |                          |       |
|             |                      |                                    |                                  |           |         |                     |                              |                  |                |                          |       |
|             |                      |                                    |                                  |           |         |                     |                              |                  |                |                          |       |
|             |                      |                                    |                                  |           |         |                     |                              |                  |                |                          |       |

Additional Notes: ESHWT 43" / No Observed Water

# Soil Suitability Assessment

Site: 9 Bancroft Street

City/Town: Andover, MA

Soil Evaluator/Soil Scientist: Maureen Herald – Norse Environmental Services, Inc.

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## D. Certification

I certify that I have passed the soil evaluator examination\* approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience described in 310 CMR 15.017.

\_\_\_\_\_  
Signature of Soil Evaluator

Maureen Herald  
\_\_\_\_\_  
Typed or Printed Name of Soil Evaluator

\_\_\_\_\_  
Date

SE13578  
\_\_\_\_\_  
Soil Evaluator Number

# Soil Suitability Assessment

Site: 9 Bancroft Street

City/Town: Andover, MA

Soil Evaluator/Soil Scientist: Maureen Herald – Norse Environmental Services, Inc.

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## **E. Test Pit Locations**

See Plan

## **NRCS – National Cooperative Soils Survey**

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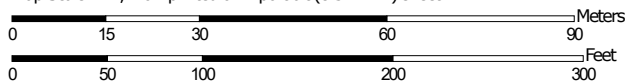
**See Following Pages**



Hydrologic Soil Group—Essex County, Massachusetts, Northern Part  
(42215 ~ 9 Bancroft Rd, Andover, MA)



Map Scale: 1:1,210 if printed on A portrait (8.5" x 11") sheet.




Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84



## MAP LEGEND

### Area of Interest (AOI)









 Area of Interest (AOI)

### Soils

#### Soil Rating Polygons





 A  
 A/D  
 B  
 B/D  
 C  
 C/D  
 D  
 Not rated or not available

#### Soil Rating Lines


 A  
 A/D  
 B  
 B/D  
 C  
 C/D  
 D  
 Not rated or not available

#### Soil Rating Points






 A  
 A/D  
 B  
 B/D

 C  
 C/D  
 D  
 Not rated or not available


### 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 1:15,800.

**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: Essex County, Massachusetts, Northern Part  
 Survey Area Data: Version 18, Sep 9, 2022

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.

## Hydrologic Soil Group

| Map unit symbol                    | Map unit name                                      | Rating | Acres in AOI | Percent of AOI |
|------------------------------------|--|--------|--------------|----------------|
| 310A                               | Woodbridge fine sandy loam, 0 to 3 percent slopes  | C/D    | 1.8          | 38.6%          |
| 310B                               | Woodbridge fine sandy loam, 3 to 8 percent slopes  | C/D    | 2.8          | 59.9%          |
| 310C                               | Woodbridge fine sandy loam, 8 to 15 percent slopes | C/D    | 0.1          | 1.5%           |
| <b>Totals for Area of Interest</b> |  |        | <b>4.7</b>   | <b>100.0%</b>  |

## Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

## Rating Options

*Aggregation Method:* Dominant Condition

*Component Percent Cutoff:* None Specified

*Tie-break Rule:* Higher

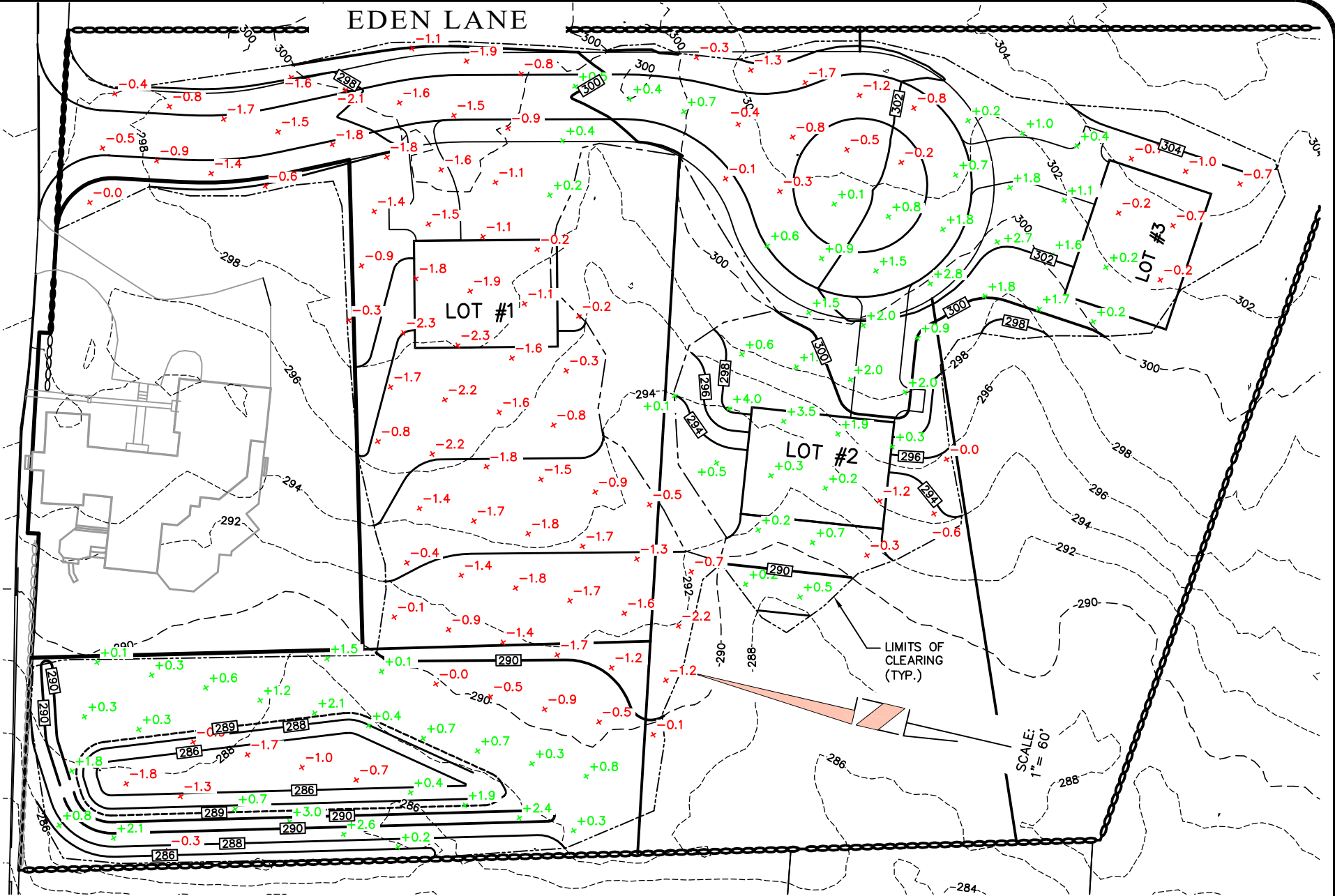
## **Earthwork Cut/Fill Exhibit**

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**See Following Page**



# EDEN LANE



LIMITS OF CLEARING (TYP.)

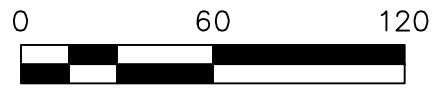
SCALE:  
1" = 60'



**DK Engineering LLC**

59 Granite Lane, Chester, NH 03036  
Tel. Number.: (603) 505-5226  
E-mail Address: dan@dke.llc

| COLOR CODE |         |
|------------|---------|
| FILL       | (Green) |
| CUT        | (Red)   |



|  |                            |
|--|----------------------------|
| Assessor's Map & Lot:<br>Map 59 & Lot 30 |                            |
| Project No.:<br>42215                    | Drawing Scale:<br>1" = 60' |
| Plan Date:<br>05/26/24                   | Revised Date:              |

|  |
|--|
| Sheet Title:<br><br><b>EARTHWORK<br/>QUANTITIES<br/>CUT/FILL MAP</b> |
|--|