## EARTH MATERIAL MOVEMENT SPECIAL PERMIT APPLICATION

FOR

# LOT 3A PHILLIPS WAY WESTWOOD, MA

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CONSTRUCTION OF A SINGLE-FAMILY HOME

May 9, 2017

PREPARED BY: MERRIKIN ENGINEERING, LLP CONSULTING ENGINEERS 730 MAIN STREET, SUITE 2C MILLIS, MA 02054

> PREPARED FOR: KEITH FENGLER 19 HIGH ROCK STREET WESTWOOD, MA 02090

#### Merrikin Engineering, LLP

Consulting Engineers MILLIS, MA 02054

730 MAIN STREET SUITE 2C

TELEPHONE (508) 376-8883 FAX (508) 376-8823

May 9, 2017

Westwood Planning Board 50 Carby Street Westwood, MA 02090

Ref: Earth Material Movement **Special Permit Application** Lot 3A Phillips Way

Dear Members of the Planning Board:

In accordance with Section 7.1 of the Westwood Zoning Bylaw and on behalf of the applicant, Keith Fengler, we are pleased to submit the enclosed application for a Special Permit to allow the movement of earth material in excess of 200 cubic yards associated with the construction a new single family home located at Lot 3A Phillips Way. Please find the following enclosed in support of the application:

- > Eleven copies of the submittal package which includes a fully executed Application Form and a variety of supporting information and attachments;
- $\blacktriangleright$  Eleven Site Plans (11- 11 x17 and 4 full-size copies of the plan); and
- ➤ A check in the amount of \$750.00 payable to the Town of Westwood for the application fee.

Please do not hesitate to contact me if you have any questions or comments.

Sincerely,

MERRIKIN ENGINEERING, LLP

Daniel J. Merrikin P.E. Partner

cc: File Keith Fengler (by email)

## EARTH MATERIAL MOVEMENT SPECIAL PERMIT APPLICATION

For

## LOT 3A PHILLIPS WAY Westwood, Ma

CONSTRUCTION OF A SINGLE-FAMILY HOME

May 9, 2017

PREPARED BY: MERRIKIN ENGINEERING, LLP Consulting Engineers 730 Main Street, Suite 2C Millis, MA 02054

> PREPARED FOR: KEITH FENGLER 19 HIGH ROCK STREET WESTWOOD, MA 02090

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Prepared by Merrikin Engineering, LLP 5

### WESTWOOD PLANNING BOARD APPLICATION FOR HEARING

EMM Special Permit Application May 9, 2017 Phillips Way, Westwood, MA Lot 3A

#### WESTWOOD PLANNING BOARD APPLICATION FOR HEARING

1.	Requested Approval(s): <u>Sections 7.1. Earth Material Movement</u>				
2.	Brief Narrative of Proposal: See attached Appendix A				
3.	Address/Location of Property Subject to Hearing: <u>Lot 3A Phillips Way</u>				
4.	Assessor's Map and Parcel Number(s): <u>Map 40, Lot 189</u>				
5.	Size of Parcel: <u>1.0+/- acre</u>				
6.	. Name of Applicant: <u>Keith Fengler</u>				
7.	Applicant's Mailing Address: 19 High Rock Street				
	Westwood, MA				
8.	Applicant's Telephone: (H) <u>n/a</u> (W)				
9.	Applicant's E-Mail Address:				
10.	Applicant is: Owner <u>X</u> Tenant Licensee Prospective Purchaser Other				
11.	Name of Property Owner(s): Ariel & Keith Fengler				
12.	Property Owner's Mailing Address: _19 High Rock Street				
	Westwood, MA				
13.	<ul> <li>3. Deed Recorded in:</li> <li>a. County Registry of Deeds, Book <u>34614</u> Page <u>81</u></li> <li>b. Registry District of the Land Court, Certificate Number</li> <li>Page Book</li> </ul>				
14.	14. Has any Application ever been filed with the Planning Board regarding this Property? <u>X</u> Yes, When? <u>July 2008 (Definitive Subdivision)</u>				
	No				
15.	15. Has the Lot been surveyed by a Registered Land Surveyor?				

<u>X</u>Yes, When? <u>2015</u> \_\_\_\_No

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The Applicant hereby requests a public hearing before the Westwood Planning Board and consents to pay for the cost of all legal advertisements required by the Zoning Bylaw and/or Planning Board Rules and Regulations, which will be billed directly to the Applicant by the newspaper at a later date. The Applicant also consents to pay for all costs required pursuant to applicable sections of the Westwood Zoning Bylaw and/or Planning Board Rules and Regulations, unless expressly waived by the Planning Board, including all project review fees, inspection fees, and costs associated transcription, in addition to all other fees, expenses and costs in connection with the Planning Board's review and evaluation of this Application.

Signed:

Applicant (or Agent) Signature

Keith Fengler Printed Name of Applicant

Signed:

Property Owner(s) of Record Signature(s)

Keith Fengler Printed Name(s) of Property Owner(s) of Record

5/1/2017

Date:

Payments Received: Application Fee:

Project Review Fees: (if applicable)

Inspection Fees: (if applicable)

Other Fees: (if applicable)

\$ <u>\$750.00</u>	
\$ <u>n/a</u>	
\$ <u>n/a</u>	
\$ n/a	

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## APPENDIX A: EARTHWORK REPORT

EMM Special Permit Application May 9, 2017 Phillips Way, Westwood, MA Lot 3A This earthwork summary presents analysis of the single-family house lot known as Lot 3A Phillips Way as depicted on a plan entitled "Lot 3A Phillips Way Site Plan of Land in Westwood, MA" prepared by Merrikin Engineering, LLP dated May 8, 2017.

#### **EXISTING CONDITIONS**

The site consists of a 1.0 acre single-family residential house lot created in 2008. It is currently wooded.

#### EARTHWORK MATERIAL AND QUANTITIES

The house location is raised above the existing street grade. As a result, the excavation of the foundation, driveway and appurtenant yard areas will result in the removal of excess soils from the site. The cut-fill analysis concludes the following:

- Disturbed Area: ~35,000 s.f.
- Total Volume of Earth to be Removed from the Site: 2,800 c.y in-place volume (3,220 c.y. including 15% expansion factor).
- Total Volume of Earth to be Imported into the Site: ~100 c.y. in-place volume (115 c.y. including 15% expansion factor). This soil is comprised of gravel, crushed stone, sand bedding and other incidental structural soil components associated with the house, driveway and utility systems.

#### CONSTRUCTION METHODOLOGIES

Topsoil, subsoil, and glacial soil to be removed from the site will be excavated with appropriate equipment, temporarily stockpiled on-site as needed, loaded into dump trucks and removed from the site via Margery Lane, Trailside Drive, Bubbling Brook Road (Walpole) and North Street (Walpole). Erosion controls and limit of work demarcations will be installed around the perimeter of the disturbance and will remain until the site is fully stabilized.

Once the site work is nearly complete, the site will be finish-graded and paved or loamed and seeded (as appropriate). Once newly established lawn areas are fully vegetated, erosion controls will be removed.

#### STORMWATER MANAGEMENT

Although not required by the DEP Stormwater Management Standards, the proposed lot development includes the construction of underground stormwater infiltration systems for roof runoff. This lot lies within a recently constructed subdivision which includes stormwater management BMPs that will capture and treat runoff from the proposed driveway. These systems will serve to mitigate runoff from the post-construction condition of the site.

### APPENDIX B: LOT 3A PHILLIPS WAY SITE PLAN OF LAND IN WESTWOOD, MA" DATED MAY 8, 2017, PREPARED BY MERRIKIN ENGINEERING, LLP

EMM Special Permit Application May 9, 2017

Phillips Way, Westwood, MA Lot 3A



#### OWNER/APPLICANT: ARIEL & KEITH FENGLER 19 HIGH ROCK STREET WESTWOOD, MA 02090

ASSESSORS REFERENCE: MAP 40 PARCEL 189

#### ZONING DISTRICTS: SINGLE RESIDENCE C

#### PLAN & DEED REFERENCES:

1. DEED: 34614-81 2. PLAN: 586-5

### ZONING REQUIREMENTS:

- MIN. LOT AREA: 40,000 S.F.
- PROVIDED: 40,244 S.F.
- MIN. LOT FRONTAGE: 125' PROVIDED: 134.0'
- MIN. LOT WIDTH: 125'
- PROVIDED: 125' MIN. NON-WETLAND AREA: 30,000 S.F.
- PROVIDED: 40,242 S.F. MIN. FRONT SETBACK: 40'
- PROVIDED: 80.0'
- MIN. SIDE SETBACK: 20', OR 15' FOR ANY PORTION OF BUILDING NOT EXCEEDING 15' IN HEIGHT (LATTER APPLIES).
- PROVIDED: 17.5'
- MIN. REAR SETBACK: 30' PROVIDED: 59.0'
- MAX. BUILDING HEIGHT: 25'+1' PER ADDITIONAL FOOT OF SETBACK. 25'+2.5'=27.5'
- PROVIDED: 27.4'
- MAX. BUILDING COVERAGE: 25%
- PROVIDED: 8.2% MAX. IMPERVIOUS COVERAGE: 50% PROVIDED: 15.4%

- THE CONTRACTOR PRIOR TO CONSTRUCTION.
- ANY EXCAVATION ON THE SITE. PHOTOGRAPHS.
- 4. OFFSITE UTILITY INVERTS, SIZES, AND MATERIALS FROM
- AVAILABLE RECORD PLANS.
- ELEVATIONS ARE ON THE NAVD 29 DATUM. 5.
- PLAIN AS DEPICTED ON THE LATEST F.I.R.M. MAP.

#### CONSERVATION NOTES:

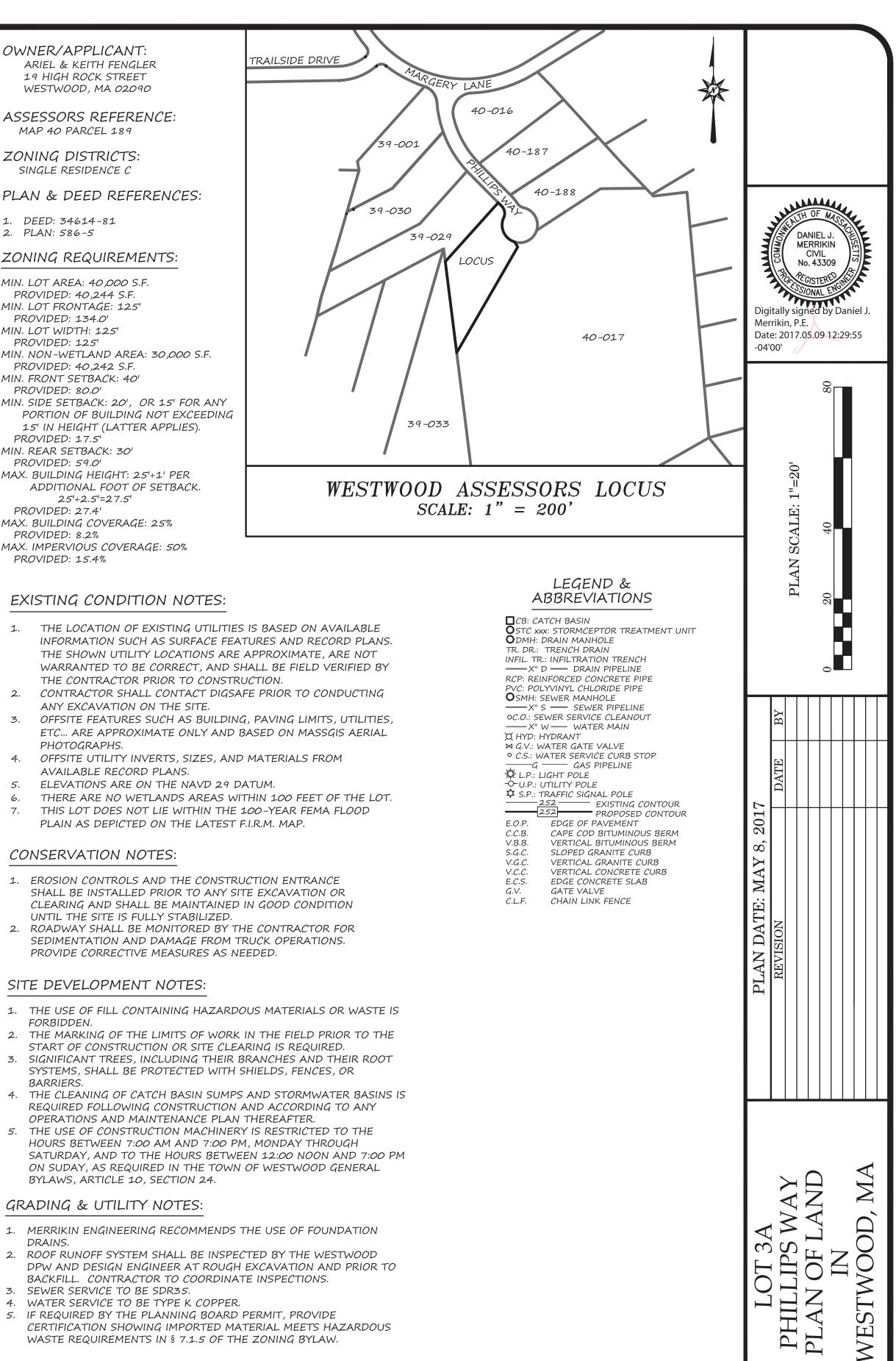
- 1. EROSION CONTROLS AND THE CONSTRUCTION ENTRANCE UNTIL THE SITE IS FULLY STABILIZED.
- 2. ROADWAY SHALL BE MONITORED BY THE CONTRACTOR FOR PROVIDE CORRECTIVE MEASURES AS NEEDED.

#### SITE DEVELOPMENT NOTES:

- FORBIDDEN.
- BARRIERS.
- BYLAWS, ARTICLE 10, SECTION 24.

#### GRADING & UTILITY NOTES:

- DRAINS.
- 3. SEWER SERVICE TO BE SDR35.
- 4. WATER SERVICE TO BE TYPE K COPPER. 5. IF REQUIRED BY THE PLANNING BOARD PERMIT, PROVIDE
- WASTE REQUIREMENTS IN § 7.1.5 OF THE ZONING BYLAW.

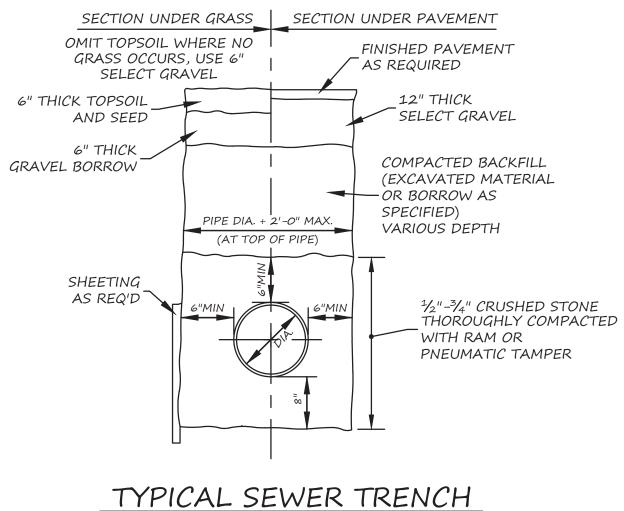


MERRIKIN ENGINEERING, LLP

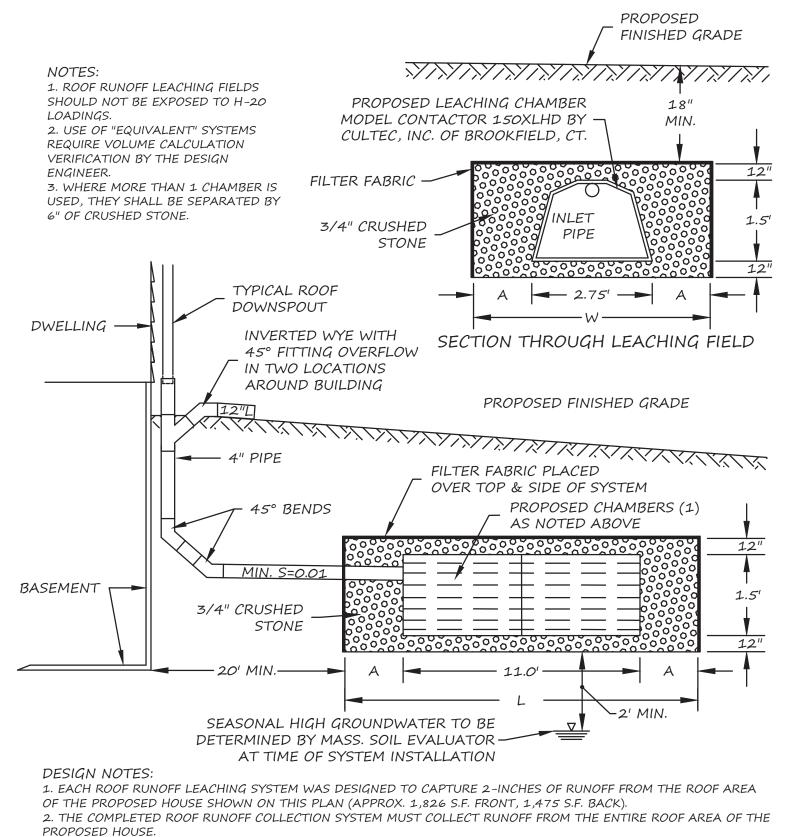
730 MAIN STREET, SUITE 2C MILLIS, MA 02054 Phone: 508-376-8883

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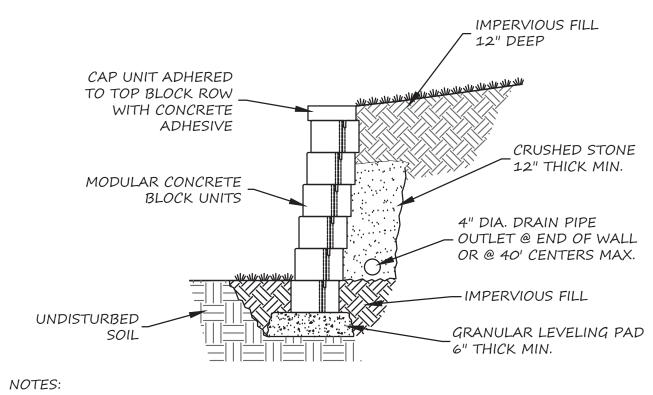






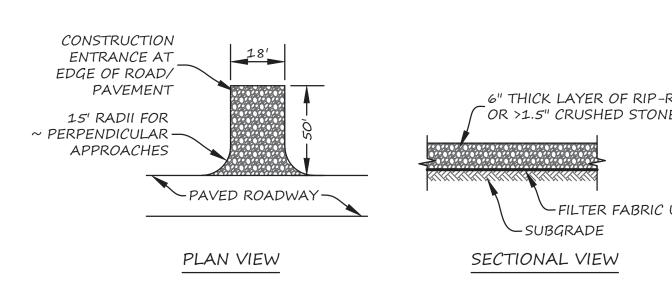
3. PIPING FOR THE ROOF DOWNSPOUT COLLECTION SYSTEM MAY BE SCHEDULE 40 PVC OR HDPE.

ROOF RUNOFF LEACHING FIELD



 SMALL BLOCK UNITS SHALL BE THE SQUARE FOOT PRODUCT BY VERSA-LOK OR APPROVED EQUAL. WALL HEIGHT WITHOUT REINFORCEMENT SHALL BE LIMITED TO 3.5' EXPOSED FACE.
 INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.



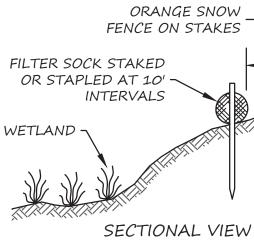


NOTES:

- ENTRANCE SHALL BE INSTALLED BEFORE ANY EXCAVATION WORK OCCURS ON-SITE.
   ENTRANCE SHALL BE MAINTAINED IN GOOD CONTITION UNTIL A PAVED
- DRIVEWAY IS INSTALLED. REPLACE ENTRANCE IF FILLED WITH SOILS OR IF SOILS ARE BEING TRACKED ONTO ADJACENT ROADWAYS.

## CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE



NOTE: NON-BIODEGRADABLE SOCK SHELL FILLED FILTER MEDIA (BIODEGRADABLE OR OTHERWISE). J SHALL BE OVERLAPPED BY AT LEAST TWO FEET. EROSION CONTRO

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