

# Merrikin Engineering, LLP

*Consulting Engineers*

730 MAIN STREET  
SUITE 2C

MILLIS, MA 02054

TELEPHONE (508) 376-8883

January 9, 2018

Planning Board  
Carby Street Municipal Building  
50 Carby Street  
Westwood, MA 020980

Ref: 85 Burgess Avenue  
Earth Materials Movement EIDR Application

Dear Members of the Board:

Please find enclosed the following relative to an application for EIDR review for earthwork associated with the proposed demolition and reconstruction of an existing single-family dwelling at 85 Burgess Avenue:

- One original and eight copies of an executed EIDR application form;
- A check in the amount of \$750.00 for the filing fee;
- Nine copies of the proposed site plan (six 11x17 and three full-size); and
- Nine copies of an earthwork summary and narrative.

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

Yours Truly,

MERRIKIN ENGINEERING, LLP

Daniel J. Merrikin P.E.  
Partner

cc: File

**WESTWOOD PLANNING BOARD APPLICATION FOR HEARING**

PB File # \_\_\_\_\_

Westwood, MA Jan 9 2018

**1. Requested Approval(s):**

Section 7.0 Earth Materials Movement EIDR for proposed single family dwelling reconstruction.

**2. Brief Narrative of Proposal:**

The applicant proposes to demolish the existing single-family dwelling and to construct a new single-family dwelling

**3. Address/Location of Property Subject to Hearing:**

85 Burgess Avenue

**4. Assessor's Map and Parcel Number(s):**

Map 27, Parcel 91

**5. Size of Parcel:**

24,938 s.f.+/-

**6. Name of Applicant:**

Eramo Building & Property, LLC

**7. Applicant's Mailing Address:**

77 Mill Street

Westwood, MA 02090

**8. Applicant's Telephone: (C)**

(W)

**9. Applicant's E-Mail Address:**

10. Applicant is: Owner    Tenant    Licensee    Prospective Purchaser    Other

**11. Name of Property Owner(s):**

Same

**12. Property Owner's Mailing Address:**

Same

**13. Deed Recorded in:**

a. County Registry of Deeds, Book 35585 Page 113

b. Registry District of the Land Court, Certificate Number n/a

Page \_\_\_\_\_ Book \_\_\_\_\_

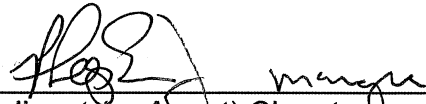
14. Has any Application ever been filed with the Planning Board regarding this Property?

Yes, When?   
 No Not to the applicant's knowledge

15. Has the Lot been surveyed by a Registered Land Surveyor?

Yes, When?   
 No Yes - December, 2017

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

PHILLIP ERAMO Manager   
 Printed Name of Applicant

Signed:    
 Property Owner(s) of Record Signature(s)

PHILLIP ERAMO JR.   
 Printed Name(s) of Property Owner(s) of Record

Date: 1-8-18

Payments Received: Application Fee: \$ 750.00   
 Project Review Fees: \$ \_\_\_\_\_   
 (if applicable)   
 Inspection Fees: \$ \_\_\_\_\_   
 (if applicable)   
 Other Fees: \$ \_\_\_\_\_   
 (if applicable)

This earthwork summary presents analysis of the proposed single-family house reconstruction at 85 Burgess Avenue as depicted on a plan prepared by Colonial Engineering, Inc.

## EXISTING CONDITIONS

The site is currently occupied by a single-family residence and appurtenances.

## EARTHWORK MATERIAL AND QUANTITIES

The NRCS soil report indicates that soils on the site are a glacial till (Charlton). The site lies on a slope down and away from the road. Our cut-fill analysis concludes the following:

- Disturbed Area: ~ 18,500 s.f.
- Total Volume of Earth to be Removed from the Site: 0 c.y.
  - The site is a net fill. Minor quantities of unsuitable soils may need to be removed from the site if encountered.
- Total Volume of Earth to be Imported into the Site: 900 c.y.
  - This is the fill volume for consists of the following types of materials.
    - Gravel subbase for the proposed driveways;
    - Crushed stone for foundation installation and for the proposed infiltration systems;
    - Mulch and other miscellaneous landscape materials; and
    - General fill for the front and backyard areas.

## CONSTRUCTION METHODOLOGIES

Topsoil will be excavated from the house and driveway footprints as-needed and stockpiled. Existing loam in the yard areas will also be stripped and stockpiled. Erosion controls and limit of work demarcations are in-place along the downhill perimeter of the disturbance and will remain until the site is fully stabilized.

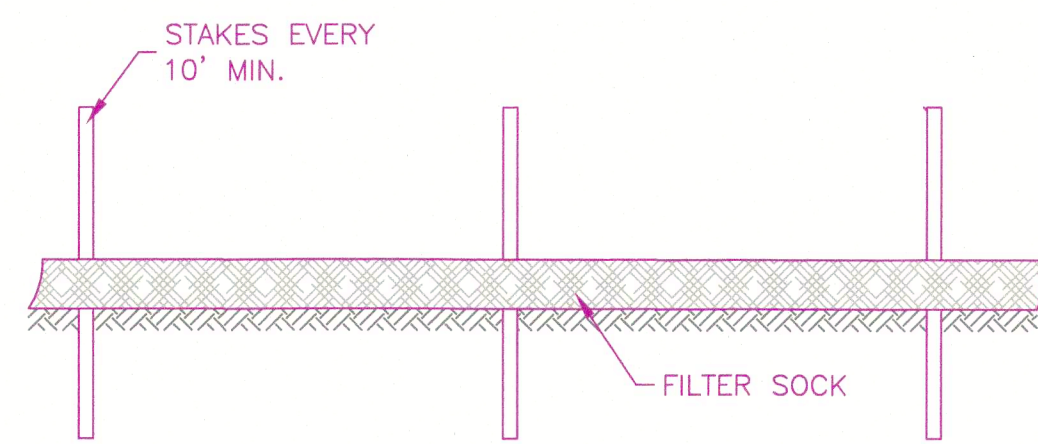
Fill will be imported via dump trucks on Burgess Avenue, which is the only access to the property.

Once the sitework 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.

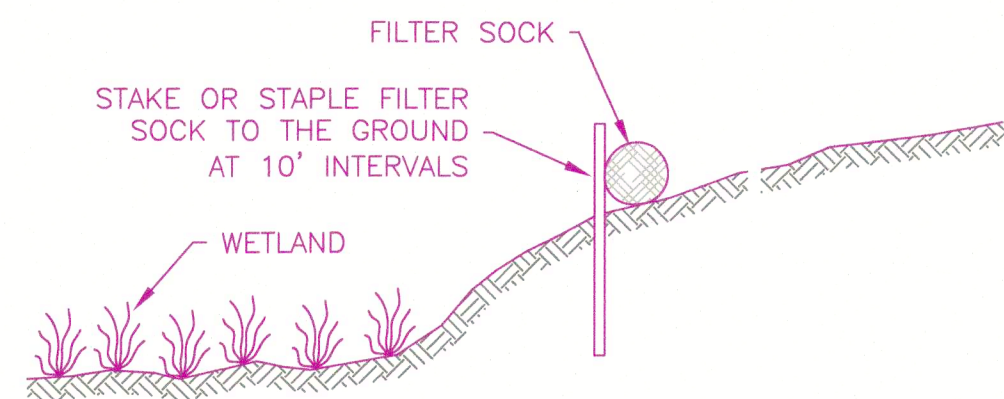
## STORMWATER MANAGEMENT

A roof runoff infiltration system is proposed to infiltrate roof runoff.





FRONT VIEW

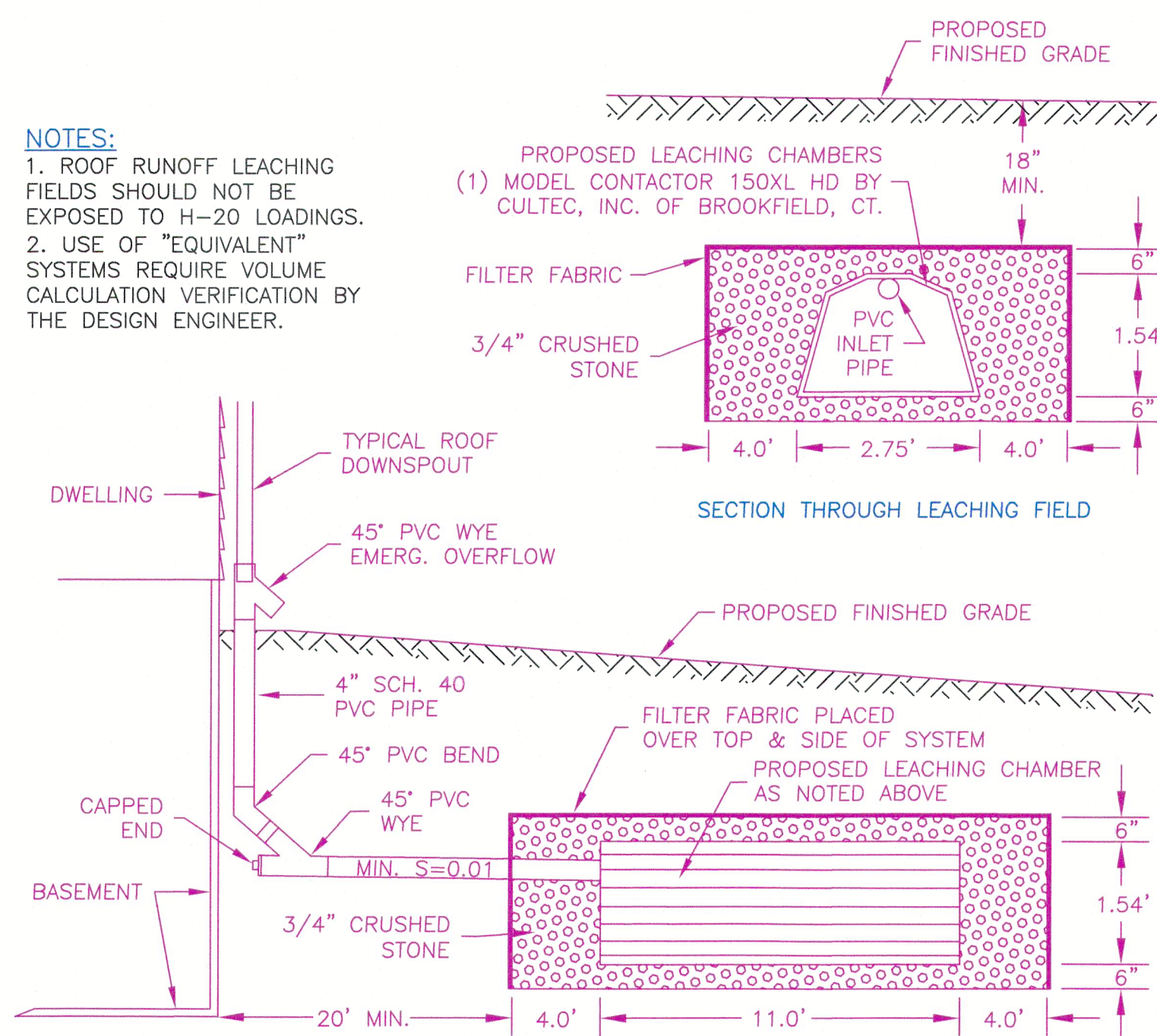


SIDE VIEW

NOTE: FILTER SOCK TO BE CONSTRUCTED OF A NON-BIODEGRADABLE SOCK SHELL FILLED WITH FILTER MEDIA (BIODEGRADABLE OR OTHERWISE). FILTER SOCKS CAN BE FILLED ON-SITE OR PRE-FILLED. IF PRE-FILLED, JOINTS SHALL BE OVERLAPPED BY AT LEAST TWO FEET.

FILTER SOCK  
NOT TO SCALE

NOTES:  
1. ROOF RUNOFF LEACHING FIELDS SHOULD NOT BE EXPOSED TO H=20 LOADINGS.  
2. USE OF "EQUIVALENT" SYSTEMS REQUIRE VOLUME CALCULATION VERIFICATION BY THE DESIGN ENGINEER.



DESIGN NOTES:

1. THIS ROOF RUNOFF LEACHING SYSTEM WAS DESIGNED TO CAPTURE 1-INCH OF RUNOFF FROM THE ENTIRE ROOF AREA OF THE PROPOSED HOUSE SHOWN ON THIS PLAN (APPRX. 2450 S.F.).
2. THE COMPLETED ROOF RUNOFF COLLECTION SYSTEM MUST COLLECT RUNOFF FROM THE ENTIRE ROOF AREA OF THE PROPOSED HOUSE.
3. THE BOTTOM OF THE ROOF RUNOFF LEACHING FIELD SHALL BE A MIN. OF 2 FT. ABOVE HIGH GROUND WATER AS DETERMINED BY A MASS. CERTIFIED SOIL EVALUATOR AT THE TIME OF INSTALLATION.
4. THE ROOF RUNOFF LEACHING FIELD SHALL BE A MIN. OF 20 FT. FROM FOUNDATION WALL WITH BASEMENT.

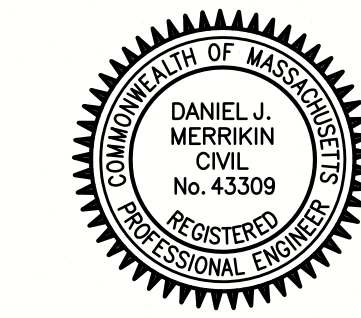
ROOF RUNOFF LEACHING FIELD  
NOT TO SCALE

DESIGN CALCULATIONS

2450 S.F. ROOF X 1" / 12 = 204.2 C.F. REQUIRED  
 10.75 X 19.0 X 2.54 + 518.8 C.F.  
 518.8 - 29.2 (CAMBER VOLUME) = 489.6 C.F.  
 489.6 X 0.40 (VOID VOLUME) = 195.8 C.F.  
 195.8 + 29.2 = 225.0 C.F. (PROVIDED)

NOTE:

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. DIG SAFE IS TO BE NOTIFIED 72 WORKING HOURS IN ADVANCE OF CONSTRUCTION. DIG SAFE 1-888-DIG-SAFE



GRADING, SEWER, DRAIN

ZONING REQUIREMENTS

ZONED SRC

MIN. LOT AREA = 40,000 SF.  
 MIN. LOT FRONTAGE = 125 FT.  
 MIN. LOT WIDTH = 90 FT.  
 MIN. NON WETLANDS 30,000 SQ.FT.  
 MAX. BUILDING COVERAGE = 25%  
 MAX. IMPERVIOUS SURFACE = 50%

SETBACKS

FRONT = 40 FT.  
 SIDE = 20 FT.  
 REAR = 30 FT.

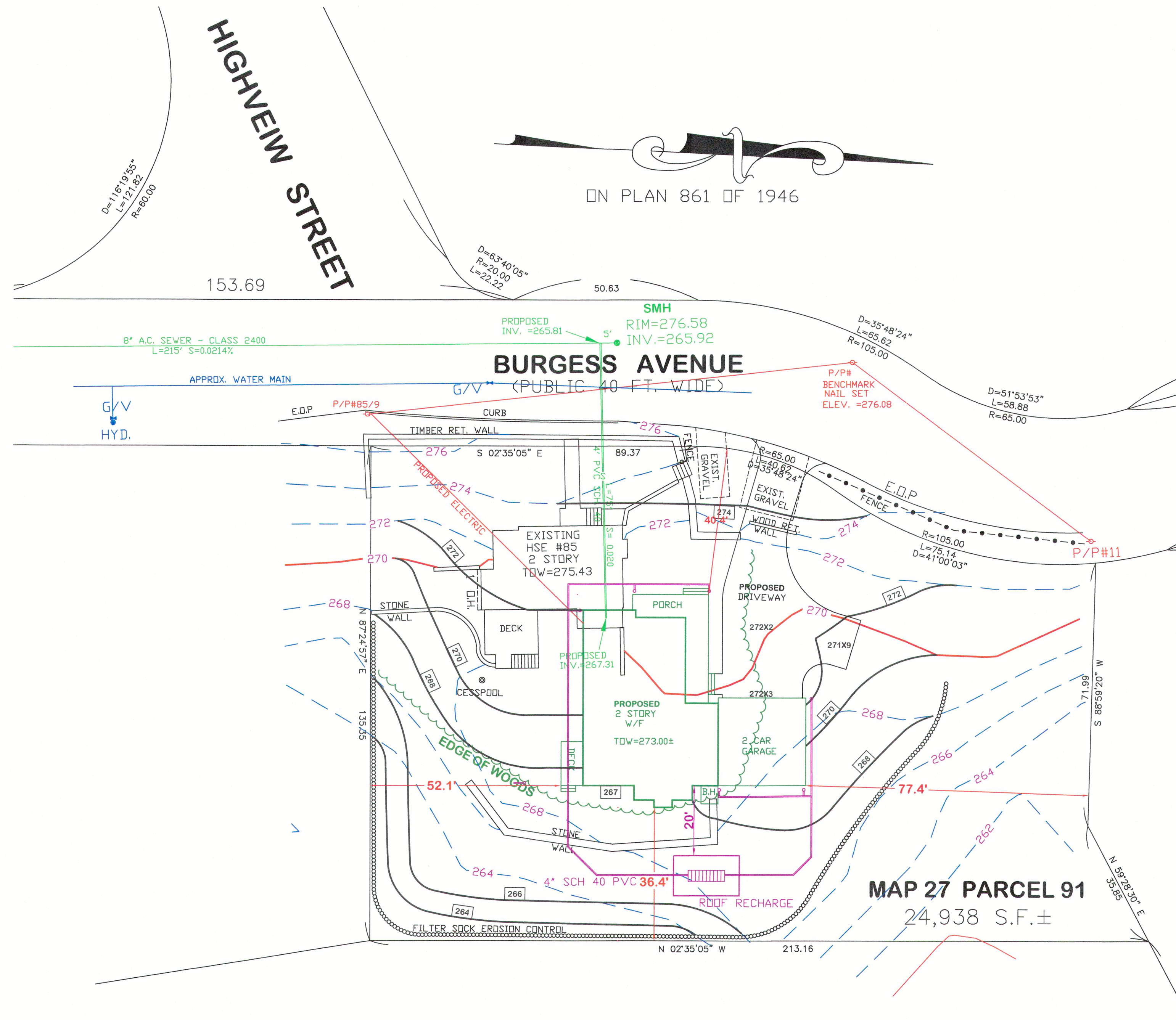
LOT IS PRE EXISTING AND NON CONFORMING TO MIN LOT AREA OF 40,000 SQ. FT. AND TO MIN NON WETLAND AREA OF 30,000 SF.

EXIST. HOUSE BUILT IN 1939

EXISTING BUILDING LOT COVERAGE = 3.64 %  
 PROPOSED BUILDING LOT COVERAGE = 9.80 %

EXISTING IMPERVIOUS SURFACE = 4.08 %  
 PROPOSED IMPERVIOUS SURFACE = 15.4 %

I CERTIFY THAT THE PROPOSED DWELLING SHOWN ON THIS PLAN CONFORMS TO THE TOWN OF WESTWOOD ZONING SET BACK REQUIREMENTS AND IT DOES NOT LIE WITHIN THE FLOOD PLAIN.



MAP 27 PARCEL 91  
24,938 S.F.±

BUILDING PERMIT

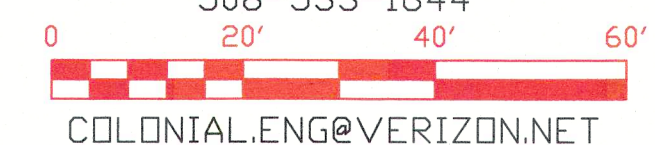
PLAN OF LAND  
IN  
WESTWOOD, MA

OWNER: EDWARD M. & SUSAN SCHREIBER  
 85 BURGESS AVENUE  
 WESTWOOD, MA 02090

APPLICANT: PHILLIP ERAMO  
 77 MILL STREET  
 WESTWOOD, MA 02090

SCALE 1" = 20' JANUARY 2, 2018

COLONIAL ENGINEERING, INC.  
 P.O. BOX 95  
 MEDWAY, MA 02053  
 508-533-1644



COLONIAL.ENG@VERIZON.NET