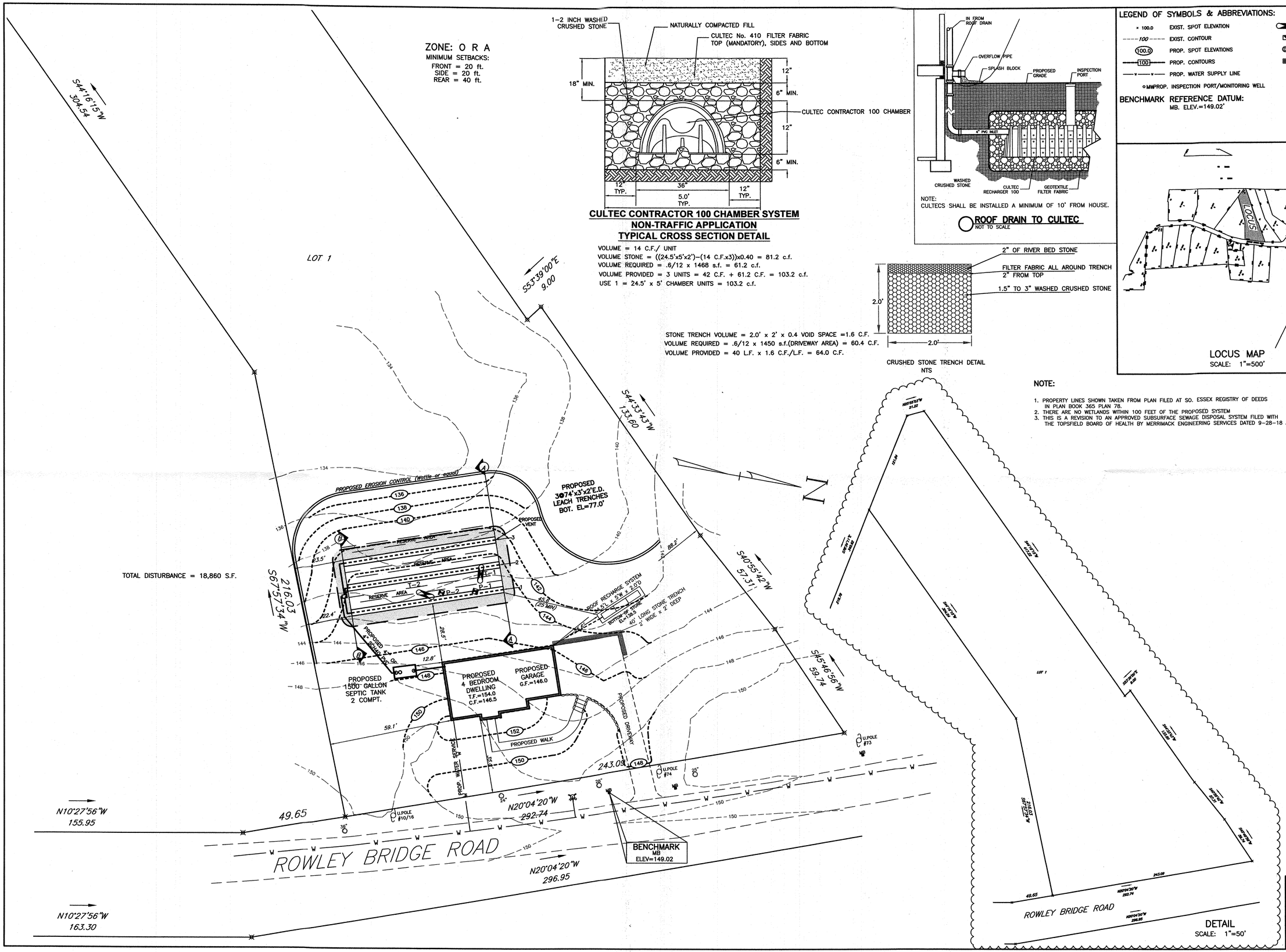
ZONE: O R A
MINIMUM SETBACKS:
FRONT = 20 ft.
SIDE = 20 ft.
REAR = 40 ft.



CULTEC CONTRACTOR 100 CHAMBER SYSTEM
NON-TRAFFIC APPLICATION
TYPICAL CROSS SECTION DETAIL

VOLUME = 14 C.F./ UNIT
VOLUME STONE = ((24.5'x5'x2')-(14 C.F.x3))x0.40 = 81.2 c.f.
VOLUME REQUIRED = .6/12 x 1468 s.f. = 61.2 c.f.
VOLUME PROVIDED = 3 UNITS = 42 C.F. + 61.2 C.F. = 103.2 c.f.
USE 1 = 24.5' x 5' CHAMBER UNITS = 103.2 c.f.

NOTE:
CULTECS SHALL BE INSTALLED A MINIMUM OF 10' FROM HOUSE.

ROOF DRAIN TO CULTEC
NOT TO SCALE

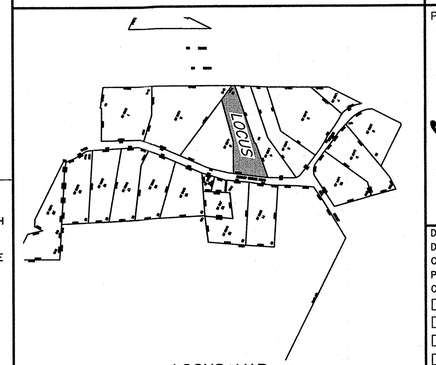
STONE TRENCH VOLUME = 2.0' x 2' x 0.4 VOID SPACE =1.6 C.F.
VOLUME REQUIRED = .6/12 x 1450 s.f.(DRIVEWAY AREA) = 60.4 C.F.
VOLUME PROVIDED = 40 L.F. x 1.6 C.F./L.F. = 64.0 C.F.

CRUSHED STONE TRENCH DETAIL
NTS

LEGEND OF SYMBOLS & ABBREVIATIONS:

× 100.0	EXIST. SPOT ELEVATION		TEST HOLE
100	EXIST. CONTOUR		PERC TEST
(100.0)	PROP. SPOT ELEVATIONS		DRAIN MANHOLE
100	PROP. CONTOURS		CATCH BASIN
—W—W—	PROP. WATER SUPPLY LINE		
MW	PROP. INSPECTION PORT/MONITORING WELL		

BENCHMARK REFERENCE DATUM:
MB. ELEV.=149.02'



LOCUS MAP
SCALE: 1"=500'

NOTE:

1. PROPERTY LINES SHOWN TAKEN FROM PLAN FILED AT SO. ESSEX REGISTRY OF DEEDS IN PLAN BOOK 365 PLAN 78.
2. THERE ARE NO WETLANDS WITHIN 100 FEET OF THE PROPOSED SYSTEM
3. THIS IS A REVISION TO AN APPROVED SUBSURFACE SEWAGE DISPOSAL SYSTEM FILED WITH THE TOPSFIELD BOARD OF HEALTH BY MERRIMACK ENGINEERING SERVICES DATED 9-28-18 AND APPROVED 10-16-18

Prepared For:

Applicant
Frank Ivanella
North Shore Auto Auction
23 Aerin Drive
Topsfield, Ma. 01983
Map 75 Lot 21
Area=87,500 s.f.

Prepared By:

Hayes Engineering, Inc.
603 Salem Street
Wakefield, MA 01880
Ph: 781.246.2800
Fax: 781.246.7596
www.hayesengg.com

Design By: gr
Drawn By: gr
Checked By: pjo
Project File: TOP-0332
Comp. No: TOP142
☐ Issued For Permit
☐ Issued For Review
☐ Issued For Bid
☐ Issued For Construction
☐ Not For Construction

No.	Revision	Date
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Scale: 1"=20'
0' 10' 20' 40'
Date: April 1, 2019

Drawing Title:

Stormwater Management and Erosion Control plan 195 Rowley Bridge Road Topsfield, Mass.

Seal:
COMMONWEALTH OF MASSACHUSETTS
PETER J. OGREN
CIVIL
No. 27145
REGISTERED PROFESSIONAL ENGINEER

Drawing No.:
PL
SHEET 1 OF 1

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