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THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Town of Amherst

FEE	275 9	-
	P6 -	
C	417	1

APPLICATIO		
	- / 1	() Abandon () - Complete System Individual Components
415 M	leadow St.	Nancy Hardy
4-D	/ q ^{Location}	415 Meadow St., Amberst, MA
	Map/Parcel #	(413) 587-950 Address 01002
10000	Lot #	Richard E, Costa & Telephone # Robert Stover
Lew CI	Installer's Name	Amherst Civil Engineering Designer's Name
PRATT	Address	P.O. BOX 3312, Amherst, MA
259	- /4diless//	(413) 256-3408 01004-3312
	Telephone #	Telephone #
Type of Building: Owelling — No. of Bedr Other — Type of Buildir Other fixtures		Lot Size 30,025 Sq. feet Garbage Grinder (%) o. of persons Showers (), Cafeteria ()
Design Flow (min. requi Plan: Date 8/5/6 Title	red) 440 gpd Calculated Number of sheets 11 Plan of Septice	d design flow 592 gpd Design flow provided gpd s Revision Date System Repair "
Description of Soil(s) Soil Evaluator Form No.	Name of Soil Evalu	uator Lobert Stover Date of Evaluation 7/24/03
DESCRIPTION OF RE	PAIRS OR ALTERATIONS	Install 1500 Gal. Septic Tank.
ITLE 5 and further agrees i	not to place the system in operation ur	ividual Sewage Disposal System in accordance with the provisions of until a Certificate of Compliance has been issued by the Board of Health.
signed		Date
nspections		
10.03-13 Roused	Amherst	TH OF MASSACHUSETTS BOARD OF HEALTH OF COMPLIANCE Richard E. Costa Civil
Description of Work:	☐ Individual Component(s)	No 27440
	ertify that the Sewage Disposal Syste	tem; Constructed (), Repaired (), Upgraded () Apareloned ()
11	Hardy	TOWAL D.
y: Nancy	Harely 51	PROPERTY
y: Nancy t 415 M	eadow St.	10 CMR 15 00 (Title 5) and the approved design plans as hailt
by: Nancy at 415 M has been installed in acc	eadow St. cordance with the provisions of 3	310 CMR 15.00 (Title 5) and the approved design plans/as-built Approved Design Flow (gpd)
by: Namy at 415 m as been installed in accolumn relating to applicat	eadow St. cordance with the provisions of 3	310 CMR 15.00 (Title 5) and the approved design plans/as-built
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by: Namy at 415 M as been installed in accolans relating to applicate anstaller August Designer: Robert	cordance with the provisions of 3 tion No. 03-13 dated dated No. 03-13 dated N	or Park Date 8/19/03
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by: 415 tas been installed in accolans relating to applicate the installer for the issuance of this community of the issuance of this community of the issuance of the issuan	cordance with the provisions of 3 tion No. 3 - 3 dated	Date Date Date Date Date Date Date Date
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No Pregues

FORM 11: Soil Evaluation Form	NO:
**********	onwealth of Massachusetts Town of essment : On-Site Sewage Disposal
Witnessed By:	Zara 105/1: 7/24/03
Location Address of: Lot#	Owner's Name: NAKEY HARLY Address of: 415 mandaus = 587-9500
New Construction ☐ Repair ☑	
Office Review	
Published Soil Survey Availa Year Published Pour Published Source So	ublication Scale Soil Map Unit
Surficial Geologic Report Av Year Published Pub Geologic Material (map unit) _ Landform	lication Scale
Flood Insurance Rate Map: Above 500 year floo Within 500 year floo Within 100 year floo	od boundary? No 🗆 Yes 🗆
Wetland Area: National Wetland Inventory Wetlands Conservancy Pro-	Map (map unit)gram Map (map unit)
Current Water Resource Co Range: Above Normal	nditions (usgs): month Normal □ Below Normal □
Other Reference Reviewed	:

125 ST 2 hours coo see he Ber the F.

Determination: Seasonal High Water Table

Methods Used:	
 □ Depth observed standing in □ Depth weeping from side of □ Depth to soil mottles □ Ground water adjustment 	n observation hole inches f observation hole inches _ inches feet
Index Well No Reading Date Adjustment factor Adjusted g	nound water level
Depth of Naturally Occurring Previous	ous Material
Does at least four feed of nate exist in all areas observed threshold absorption system?	urally occurring previous materials roughout the area proposed for this soil
If not, what is the depth of nat	turally occurring previous material?
Certification	
evaluator examination approved by Protection and that the above analysis	(date) I have passed the soil by the Department of Environmental is was performed by me consistent with d experience described in 310 CMR
Signature	
Date	-
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1 Budrams No 9T

		<u>Or</u>	-Site Rev	<u>iew</u>	
Weather	le Number (CAST	ate: 7/2		ime FAR
Surface	Stonex	Losle MAPL		Sid	ppe (%)
Landforn	n:	ý			
Distance (s from: Open Water Possible We	Body Body Body Body Body Body Body Body	feet feet		geway 100 feet ty Line 40 feet
depth from surface (inches)	soil horizon	DEEP OBSE soil texture (USDA)		HOLE LOG	other (structure, stones, boulders) Consistency, % gravel
12	Kell	Leam	101x,		Friest
20	Ab	FSL	2/2 25x	NONO	FRIDALE
30	Bw	FSC	14/4	CONTA	FRIAR!
96	C	FSL	0/5/3	2.54 1/6	FIND HO SURE FRANCES
Depth to	Groundwat Standing W Weeping fro		ole <u> </u>	2"	

On-Site Review

Deep Ho	ole Number	D	ate:	Ti	me	
Weathe	r (identify or	site plan)				
Land Us	e	- one plany		Slo	pe (%)	
Surface	Stone					
Vegetati	on:					
Landfor	m:					
-						
		pe (sketch o	n back)			
Distance		c Dody	fool	Desire		foot
	Possible We	r Body et Ares	_ feet	Proper	geway ty Line	
	Drinking Wa	ater Well	feet	Other		
			THE PERSONS			
	1			HOLE LOG		
depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsel)	soil mottling	other (structure, sto Consistency, s	nes, boulders) % gravel
				1		
Parent I	Material (ge	ologic)				
	Groundwa	ter:				
	Standing W	ater in the H	ole			
	Estimated S	om Pit Face	h Mator			
	Louinated	oasonai nigi	vvalei		-	

1 System Speed Spe

FORM 12: Percolation Test	415 Mepl.	PT
Location Adrress or Lot #	119 MEDE	

Commonwealth of Massachusetts Town of

	PERCOLATION TES	ST *
DATE	7 63	TIME: 8 1914
Observation Hole #		
Depth of Perc	60"	
Start Pre-soak	5: 11	
End Pre-soak	8178	
Time at 12"	8:28	
Time at 9"	8:30	
Time at 6"	8:37	
Time (9"-6")	2+	
Rate Min./Inch		

*Minimum of one percolation test must be performed in both the primary area and reserve area.

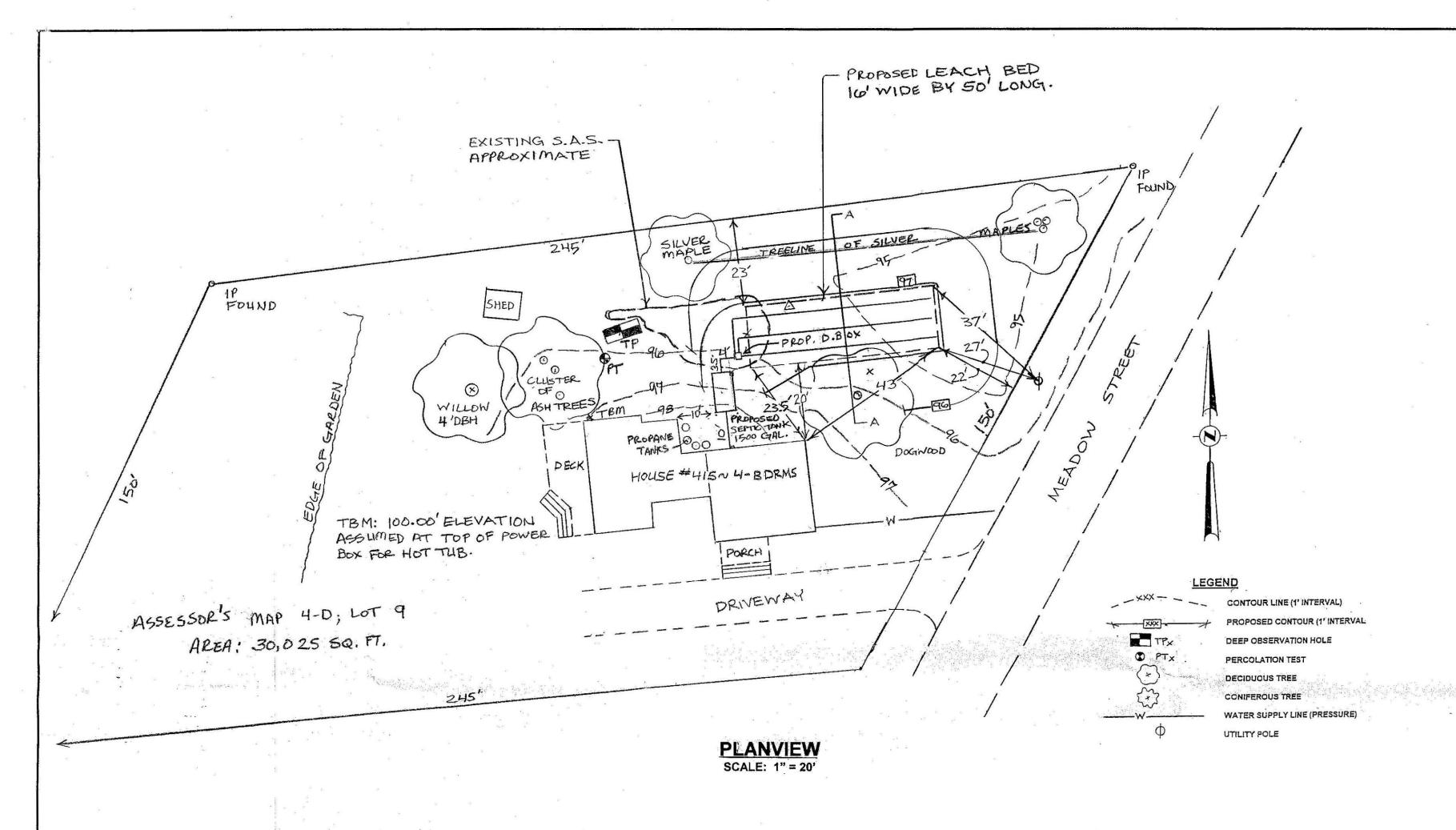
Site Passed Site failed

Performed by Bob Silver

Witnessed by DAV, & ZAROZINSKI

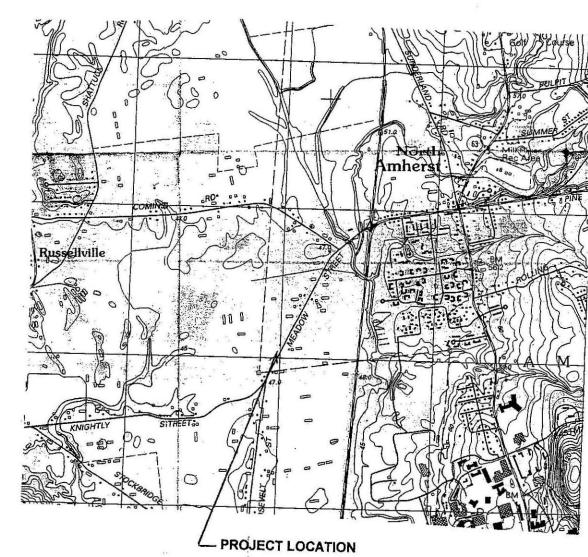
Comments:

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4" DIA. SOLID SCH 40 PVC:

0+00



USGS WILLIAMSBURG, MASS. QUAD SCALE = 1: 25 000

CONNECT TO EXISTING SEWER PIPE WITH A FERNCO COUPLING. PROPOSED 1500 GAL. PRECAST SEPTIC TANK. INSTALL 4" DIA. SOLID SCH 40 PVC INLET & OUTLET TEES TO EXTEND 6" ABOVE THE FLOWLINE WITH A 3" AIR SPACE BETWEEN TOPS OF TEES & THE INSIDE OF THE TANK COVER. INSTALL AT LEAST ONE ACCESS RISER TO WITHIN 6" OF FIN. GRADE & A GAS BAFFLE AT THE TANK OUTLET. 4" DIA. SOLID SDR 35 PVC: CONNECT TO SCH 40 PVC WITH A SCH 40/ SDR 35 CONNECTOR. PROPOSED DISTRIBUTION BOX. 4" DIA. SOLID SDR 35 PVC: FIRST 2' LAID LEVEL. - PROPOSED FINISHED GRADE: LOAM & SEED FOR STABLE COVER. MIN. 12" CLEAN SOIL COVER. EXISTING GROUND SURFACE ---- 2" OF 1/8" TO 1/2" DOUBLE WASHED "PEA" STONE. 4" DIA. PERFORATED SDR 35 PVC W/ GLUED ENDCAPS. PROPOSED FINISHED GRADE -100 100. - 1 1/2" DOUBLE WASHED STONE. SLOPE I ELEV. 95.00': OLD FILL, TOP AND SUBSOIL REMOVE FROM THE AREA 94 BOTTOM OF THE BED IS LEVEL. OF THE LEACH BED AND FOR 5' IN ALL DIRECTIONS. - 6" CRUSHED STONE PROPOSED: ONE LEACH BED: 50' LONG BY 16' WIDE ESTIMATED SEASONAL HIGH GROUND WATER ELEVATION: 91.00' 6" CRUSHED STONE. 88 **INVERT ELEVATIONS OF TRENCHES:** BEGINNING: 95.50' END: 95.75' 85 -0+80 0+20 0440 0460 1+20 0+57 L+20 1+00

PROFILE OF SYSTEM

SCALE: H: 1" = 10' V: 1" = 3'

SECTION OF LEACH BED SCALE: H: 1" = 10' V: 1" = 3'

L+40

R+Zio

SOIL EVALUATION

Soil Evaluator: BOH Representative: David Zarozinski
Date of Evaluation: 7/24/03

Ground surface elevation at Deep Hole: 95.25'. Estimated Seasonal High Ground Water Elev. 91.00'. Bedrock Elev. Deeper than 87.25'.

Pepth	Soil Horizon	Soil Texture	Soil Color	Mottling	Other	
2-0"	Fill	loam	400000-0140270	none	friable	
-20"	Ab	FSL	10YR2/2	none	friable	
0-30"	Bw	FSL	2.5Y4/4	none	firm, massive	
0-96"	C	FLS	5Y5/3	@ 51" common 2.5Y5/1	firm, no coarse fragments.	

& 2.5Y7/6

Parent Material (Geologic): outwash Standing Water in the Hole: 6 ft. Weeping from Pit Face: 4.5 ft. Estimated Seasonal High Ground Water: 51"

DESIGN CRITERIA

Design flow is for a 4-bedroom house without a garbage grinder.

DESIGN CALULATION

Design flow: 4-bedrooms, no garbage grinder: = 440 gpd.

Proposed Septic Tank: 1500 gallon precast concrete septic tank.

Effluent Loading Rate: Percolation Rate = 2.33 minutes per inch

Class I soils. Effluent loading rate = 0.74 gpd/sf.

Proposed Soil Absorption System: one leach bed:

50' long by 16' wide

Bottom Area: 50' X 16' = 800 sf. Sidewall Area: not allowed = 0 sf.= 800 sf. Total proposed leaching Area: Calculated Design Flow: 800 sf X 0.74 gpd/sf: Total Required Design Flow = 592 gpd. = 440 gpd (OK)

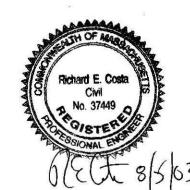
GENERAL CONDITIONS

- 1. This septic system repair plan is prepared in accordance with Title 5, 310 CMR 15.00.
- Construction shall conform to these regulations. 2. The installer shall inform the designer of any unusual conditions and shall not modify the
- plan without the written consent of the designer.
- 3. All debris in the site area shall be removed and disposed of in accordance with the law. 4. There is no guarantee expressed or implied to any user of a system installed pursuant to
- The installer shall notify the designer when the system excavation is ready for inspection and the designer and the Board of Health when the system installation is complete and prior
- to the placement of the cover material for final inspection. Notification shall be 48 hours prior to the time of inspection.
- 6. The on-site sewage disposal system shall be pumped and inspected as necessary and at least once every three years.

CONSTRUCTION NOTES

- 1. Any topsoil, subsoil, old fill, stumps, stones, debris or other impervious materials encountered during excavation shall be removed from the area of the soil absorption system, from five feet around the soil absorption system and from wherever fill is to be placed. Any fill placed under or adjacent to the soil absorption system shall be a clean, granular sand and conform to the specifications of Title 5, 310 CMR 15.255(3).
- 2. The finished grade above the soil absorption system shall have a minimum two percent slope to shed surface runoff away from the system.

 Disturbed areas shall be loamed, seeded and mulched until stable vegetation is established.
- 4. The pipes exiting the distribution box shall have the same invert elevation and shall be level for a minimum of the first two feet.
- The existing septic tank shall be pumped, crushed and disposed of in accordance with the law. Any part of the existing soil absorption system encountered during excavation shall be disposed of in accordance with the law.



PLAN OF SEPTIC SYSTEM REPAIR 415 MEADOW STREET, AMHERST, MASS.

NANCY HARDY

415 MEADOW ST., AMHERST, MA 01002 SCALE: AS SHOWN APPROVED BY DRAWN BY

DATE: 7/31/03 REVISED 8/5/03 AMHERST CIVIL ENGINEERING RICHARD COSTA, P.E. / ROBERT STOVER

P.O. BOX 3312, AMHERST, MA 01004-3312 (413)256-3400