Town of Montville Inland Wetlands Application

220 IWC 10
110.00 CK# 3486

APPLICANT INSTRUCTIONS: All applicants must complete this application form. The Commission will notify the applicant of any additional information that may be required and will schedule a Public Hearing if necessary. In addition to the information required, the applicant may submit other supporting facts or documents which may assist the Commission in its evaluation of this proposal. **PLEASE SUBMIT NINE COPIES OF THE APPLICATION AND NINE COPIES OF ANY OTHER DOCUMENTS AT LEAST FIVE BUSINESS DAYS PRIOR TO THE MEETING.**

I. Applicant Information

Name David Lytwyn
Address 163 RUBY RD WILLINGTON CT 06279
Tel # _____ Cell # 860 933 1464
Fax # _____ Email SALES@ADMIRALSEPTIC.COM

Interest in Property Owner Option Holder Developer Harvester ✓ Other

Attach a Written Consent to the proposed activity from the owner if applicant is not the owner Required Not Required

II. Owner Information

Name JOSEPH BASIL Address 255 FITCH HILL Rd MONTVILLE
Tel # _____ Cell # 860-933-5653
Fax # _____ Email josephbasil1979@gmail.com

III. Engineer Information

Contact _____
Firm _____ Address _____
Tel # _____ Cell # _____
Fax # _____ Email _____

IV. Attorney Information

Contact _____
Firm _____ Address _____
Tel # _____ Cell # _____
Fax # _____ Email _____

V. Property Information

Address of Proposed Activity 255 FITCH HILL RD
Assessor's Map and Lot Number 055 - 013 - 000
Land Records /Deed Volume: _____ Page: _____ Acreage of Property _____
Zoning _____

Provide a List of the Names and Mailing Addresses of Adjacent Property Owners (Attach Sheet)

VI. Wetlands and Watercourse Information

Total Acreage of Wetlands on the site_____ acres

Wetland Disturbance Area_____0_____ sq ft

Upland Review Disturbance Area _____875_____sq ft

Have the Wetlands Been Flagged Yes ✓No Year_____

Name of Soil Scientist_____

Linear Feet of Watercourse Disturbance_____0_____ ft

Creation of New Wetlands_____0_____ sq ft

VII. Project Description

☐ Subdivision ☐ Review No Regulated Activity Permit Modification

☐ Regulated Activity ☐ Permitted Use as of Right Permit Renewal

Activity will involve (Check all that apply)

☐ Alteration ☐ Construction Pollution ☐ Stormwater Discharge

☐ Deposition of Material _____ cubic yards

☐ Removal of Material _____ cubic yards

See attached checklist of items that are to be included on Plan and supplemental data.

A) Attach a Detailed Plan of the Proposal and indicate Plan Title and Date.

Septic design & related documents

B) Provide Brief Description of the Proposed Project on separate piece of paper. Instructions attached.

C) List Titles and dates of all documentation which will be included and submitted with this application and attach to application. Documents should include, but are not limited to; Project Proposal, Soil Scientist Reports, and Drainage Calculations.

VIII. Other Information

1. Does the application involve an activity in a regulated area that is within 500 ft of another municipality?

Yes ✓No

- If YES, then a copy of the application and all material is to be submitted to said Town and a copy of the transmittal form is to be provided to the Commission.

2. Is the property located within a Flood Hazard Area? ✓Yes ✓No ONE MAP INDICATE 100 yr ANOTHER MAP - OUT OF HAZARD

-If YES, then please provide additional material showing the location of the area.

3. Is the regulated activity within a Public Water Supply Aquifer or Watershed? ☐Yes ☐No

- If YES, then a copy of the application and all material is to be submitted to the State Department of Health as well as the appropriate Water Company. See attached instructions for the Notification Process for the State Health Department. A copy of the transmittal forms shall be provided to the Commission.

4. Does the application require approval from Uncas Health District? ✓Yes ☐No
   - If YES, then a copy of the approval is to be provided to the Commission.

5. Does the application require approval from the Public Works Dept? ☐Yes ✓No

   - If YES, then a copy of the approval is to be provided to the Commission.

6. Does the application require approval from the Town of Montville WPCA? ☐Yes ✓No
   - If YES, then a copy of the approval is to be provided to the Commission.

7. Does the application require permits from the following agencies?

			Submission Info
Army Corps of Engineers	☐Yes	✓No	Date _____
Department of Environmental Protection	☐Yes	✓No	Date _____
Department of Transportation	☐Yes	✓No	Date _____

   - If YES, then a copy of the application and all material is to be submitted to said Agency and a copy of the transmittal form is to be provided to the Commission.

8. Does this permit require a State Water Diversion Permit? ☐Yes ✓No

9. Does this permit require a State Dam Permit? ☐Yes ✓No

10. Is this property subject to a Conservation Restriction and/or a Preservation Restriction?

    -If YES, attach a copy of certified notice. ☐Yes ✓No

11. If the application is a renewal or modification of an existing permit, is a copy of the original approval included in the documentation package? ☐Yes ✓No

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The undersigned applicant hereby consents to necessary and proper inspections of the above mentioned property by agents of the Montville Inland Wetlands Commission at reasonable times, both before and after the permit in question has been granted by the Commission.

Name _____ Date 7/24/20

Property Owner if other than Applicant _____ Date _____

TOWN OF MONTVILLE
INLAND WETLANDS APPLICATION CHECKLIST

N/A		
☐	☑	Completed application signed by the property owner. If you are acting on behalf of the property owner than a letter must also be submitted by the property owner stating that you are acting as his/her agent.
☐	☑	Application must have the disturbance area in square feet and acres to include the buffer area, as well as, the wetland area and what type of activity it will be in tabular format.
☐	☑	A narrative describing the activities to take place on the property. This is to include but not limited to:
	☑	Alternatives considered.
	☑	Description of the activity including location and square footage of disturbance.
	☑	What type of erosion and sediment control will be used.
	☑	If machinery will be used or if work will be done by hand.
	☐	Identify the sub-drainage basin where the proposed activity will occur.
☑	☐	List of abutting property owners and names indicated on plan.
☐	☑	Location of all wells and septic systems of abutting property owners, as well as, any located onsite.
☑	☐	Existing and proposed contours at 5 ft contours.
☐	☐	Location of all designated wetland and watercourse areas by a Certified Soil Scientist. A soils report from the soil scientist shall also be provided along with a live signature and stamp on the plans.
☐	☐	Location of all Flood Zones per Federal Flood Insurance Rate Maps.
☐	☑	Location of all existing and proposed buildings and their uses.
☑	☐	Location of all crossings and storm water drainage systems and their drainage. calculations based on ten (10) and Twenty-five (25) year storms. In addition all points of ground water discharge will also be shown.
☐	☑	Location of all Erosion and Sediment control devices and an Erosion and Sediment control plan.
☐	☑	North arrow and location key at 1"= 1000".
☑	☐	DEEP Report Form.

☐ ☐ The requirements of Section 7.5 shall apply if the proposed activity has been determined **significant.**

- ☐ Site plans for the proposed use or operation and the property which will be affected, which show existing and proposed conditions, wetland and watercourse boundaries, land contours, boundaries of land ownership, proposed alterations and use of wetlands and watercourses, and other pertinent features of the development drawn by a licensed surveyor, professional engineer or landscape architect registered in the State of Connecticut or by such other qualified person;

- ☐ Engineering reports and analyses and additional drawing to fully describe the proposed project and any filling, excavation, drainage or hydraulic modifications to watercourses and the proposed erosion and sedimentation control plan;

- ☐ Mapping of soil types consistent with the categories established by the National Cooperative Soil Survey of the U. S. Soil Conservation Service (the Commission may require the applicant to have the wetlands delineated in the field by a soil scientist and that the field delineation be incorporated onto the site plan);

- ☐ Description of how the ecological communities and functions of the wetlands or watercourses involved with the application and the effects of the proposed regulated activities on these communities and wetlands functions;

- ☐ Description of how the applicant will change, diminish, or enhance the ecological communities and functions of the wetlands or watercourses involved in the application, and with each alternative, and a description of why each alternative considered was deemed neither feasible nor prudent;

- ☐ Analysis of chemical or physical characteristics of any fill material;

- ☐ Measures which mitigate the impact of the proposed activity. Such measures include, but are not limited to, plans or actions which avoid destruction or diminution of wetland or watercourse functions, recreational uses and natural habitats, which prevent flooding or degradation of water quality.

In addition to this checklist, the applicant is also responsible for those items listed in the EROSION & SEDIMENT CONTROL CHECKLIST

EXHIBIT A

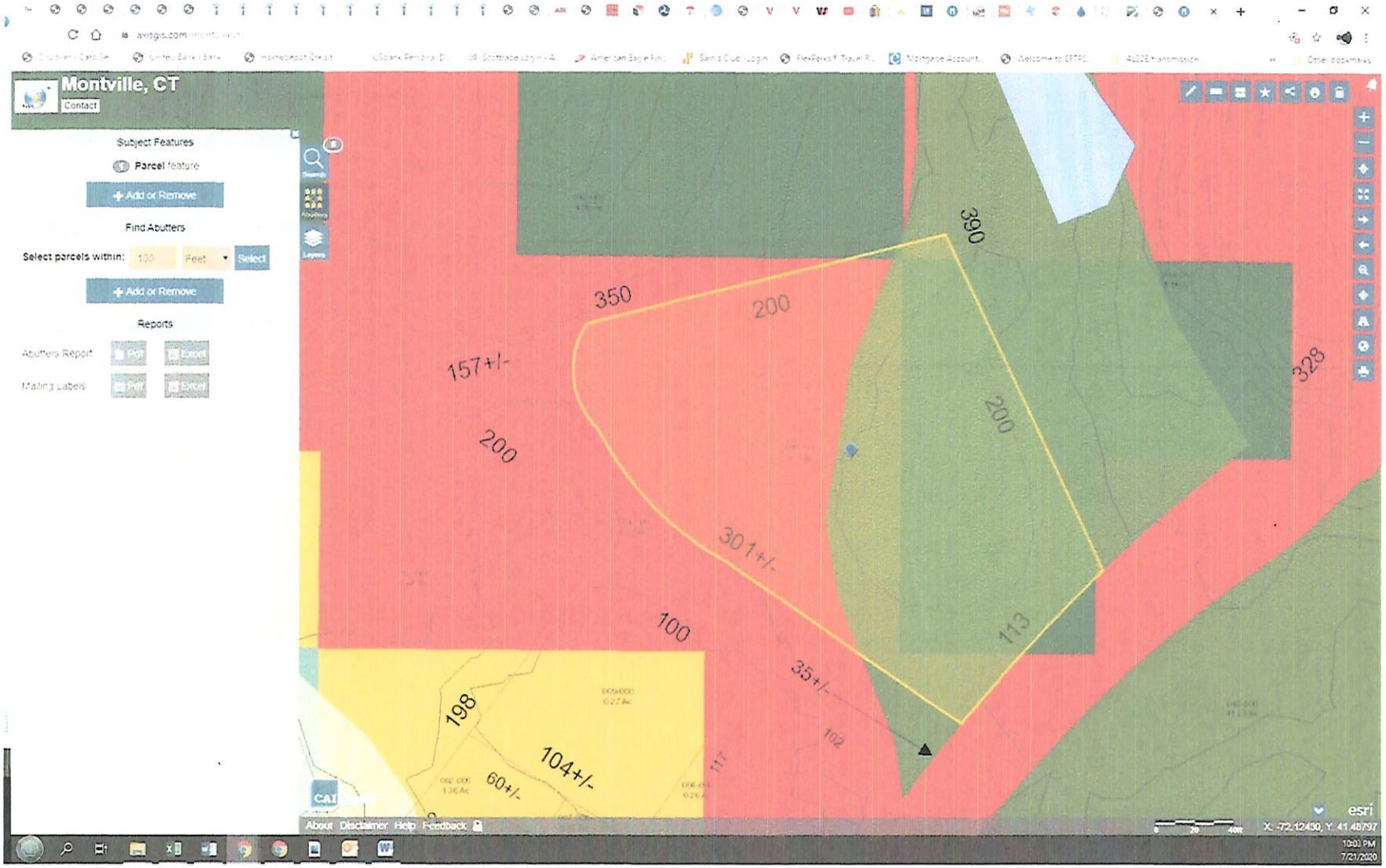
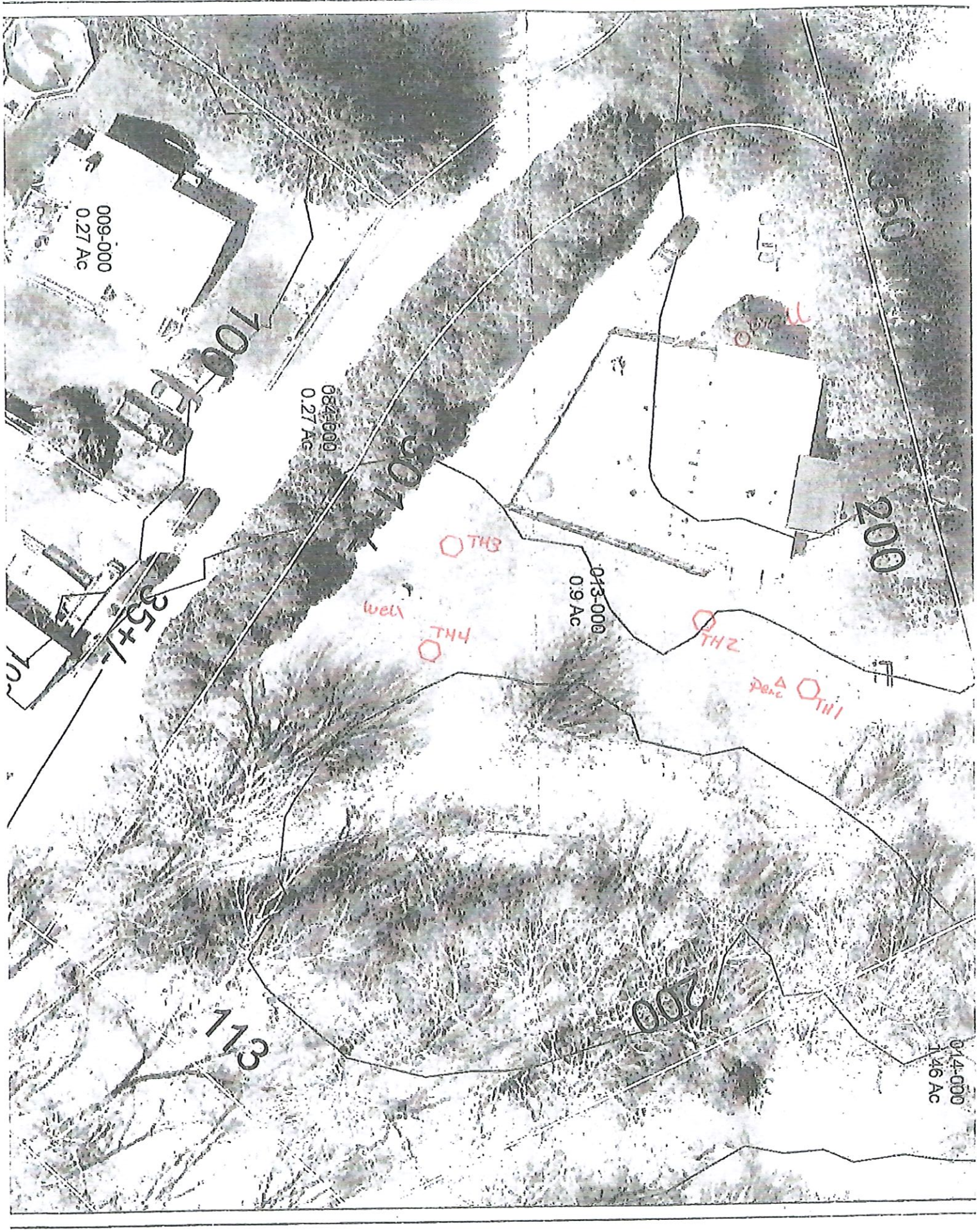

Montville, CT
Contact
Subject Features
Parcel feature
+ Add or Remove
Find Abutters
Select parcels within:
Feet
Select
+ Add or Remove
Reports
Abutters Report
Mailing Labels
390
350
200
157+/-
200
200
328
301+/-
100
113
35+/-
198
104+/-
60+/-
About Disclaimer Help Feedback
esri
X: -72.12430, Y: 41.48797
10:01 PM
7/21/2020

EXHIBIT B



009-000
0.27 Ac
084-000
0.27 Ac
013-000
0.9 Ac
014-000
1.46 Ac
100
35+/-
113
200
200
TH1
TH2
TH3
TH4
well
Perc

UNCAS HEALTH DISTRICT

Exhibit C

SITE INVESTIGATION FOR SUBSURFACE SEWAGE DISPOSAL

Owner: Danny Gill & Michelle Bryan

Location: 255 Fitch Hill Road Montville

Deep Test Hole Data/Soil Descriptions

DATE: December 23, 2019

Test Hole # 1	Test Hole # 2	Test Hole # 3	Test Hole # 4
0-12" Topsoil 12-36" Loamy subsoil 36-62" compact sand & silt	0-20" Fill 20-27" Topsoil 27-45" Subsoil 45-60" Gray silty sandy till	0-34" Fill 34-44" Topsoil 44-84" Gray silty sandy till	0-34" Fill 43" Deep
Mottling: None	Mottling: 36"	Mottling: None	Mottling: None
GW: 24"	GW: 45"	GW: 42"	GW: 24"
Ledge: None	Ledge: None	Ledge: None	Ledge: None
Roots: None	Roots: None	Roots: None	Roots: 20"
Restrictive: 24"	Restrictive: 36"	Restrictive: 42"	Restrictive: 24"

Percolation Test Data

Date: December 23, 2019

Perc # 1		**Perc Rate:**		Perc #		**Perc Rate:**	
Depth: 24"		7.5 min/inch		Depth:			
Presoak time: < 2 hours				Presoak:			
Time	Reading	Time	Reading	Time	Reading	Time	Reading
0	12"	35	21¼"				
10	18"	40	22"				
15	19 ¼"						
20	19 ½"						
25	20"						
30	20½"						

Soil Moisture: Moist

Location: 255 Fitch Hill Road Montville

Exhibit C

SITE INVESTIGATION FOR SUBSURFACE SEWAGE DISPOSAL

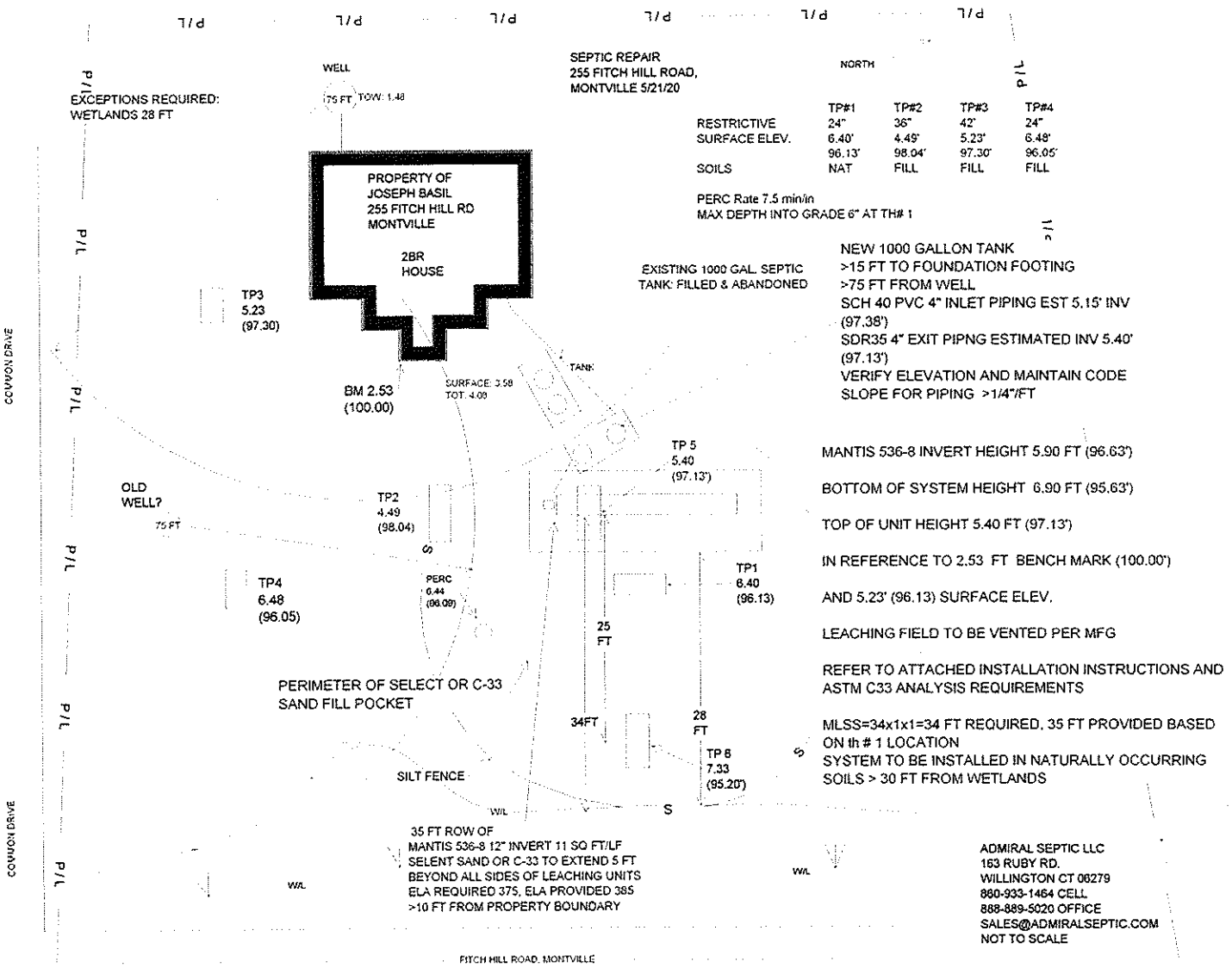
See Sketch

SPECIAL CONDITIONS		CONCLUSIONS	
Design Flow > 2000 GPD		Suitable for Sewage Disposal	X
Public Water Supply Watershed		Unsuitable for Sewage Disposal	
Probable High Groundwater		Additional Investigation Required	
Ground Water < 36 inches below grade	X	Wet Season Monitoring Required	
Slope > 25%		Retest During Wet Season	
Perc Rate < 1 min/inch		Licensed Engineer's Plan Required	
Perc Rate > 30 min/inch		Other:	
Ledge < 5 feet below grade			
Limited Suitable Area	X		
Open Watercourse or Wetlands	X		
Flood Plain/Seasonal Flooding			

DESIGN RECOMMENDATIONS/COMMENTS: A 2 BR house requires 375 sf of leaching area. %.7% gradient. MLSS in area of TH 1 – 34 x 1 x 1 = 34'. Maximum below grade to the bottom of the system is 6". The Montville Inland Wetlands Officer must be contacted.

Form Completed By: Michael J. Kirby, R.S., Chief Environmental Sanitarian
Others Present For Site Investigation: David Lytwyn, Licensed Installer

EXHIBIT D



SEPTIC REPAIR
255 FITCH HILL ROAD,
MONTVILLE 5/21/20

NORTH

	TP#1	TP#2	TP#3	TP#4
RESTRICTIVE	24"	36"	42"	24"
SURFACE ELEV.	6.40'	4.49'	5.23'	6.48'
	96.13'	98.04'	97.30'	96.05'
SOILS	NAT	FILL	FILL	FILL

PERC Rate 7.5 min/in
MAX DEPTH INTO GRADE 6" AT TH# 1

EXISTING 1000 GAL. SEPTIC TANK: FILLED & ABANDONED

NEW 1000 GALLON TANK
>15 FT TO FOUNDATION FOOTING
>75 FT FROM WELL
SCH 40 PVC 4" INLET PIPING EST 5.15' INV (97.38')
SDR35 4" EXIT PIPNG ESTIMATED INV 5.40' (97.13')
VERIFY ELEVATION AND MAINTAIN CODE SLOPE FOR PIPING >1/4"/FT

MANTIS 536-8 INVERT HEIGHT 5.90 FT (96.63')

BOTTOM OF SYSTEM HEIGHT 6.90 FT (95.63')

TOP OF UNIT HEIGHT 5.40 FT (97.13')

IN REFERENCE TO 2.53 FT BENCH MARK (100.00')

AND 5.23' (96.13) SURFACE ELEV.

LEACHING FIELD TO BE VENTED PER MFG

REFER TO ATTACHED INSTALLATION INSTRUCTIONS AND ASTM C33 ANALYSIS REQUIREMENTS

MLSS=34x1x1=34 FT REQUIRED, 35 FT PROVIDED BASED ON th # 1 LOCATION
SYSTEM TO BE INSTALLED IN NATURALLY OCCURRING SOILS > 30 FT FROM WETLANDS

ADMIRAL SEPTIC LLC
163 RUBY RD.
WILLINGTON CT 06279
860-933-1464 CELL
888-889-5020 OFFICE
SALES@ADMIRALSEPTIC.COM
NOT TO SCALE

Exhibit E

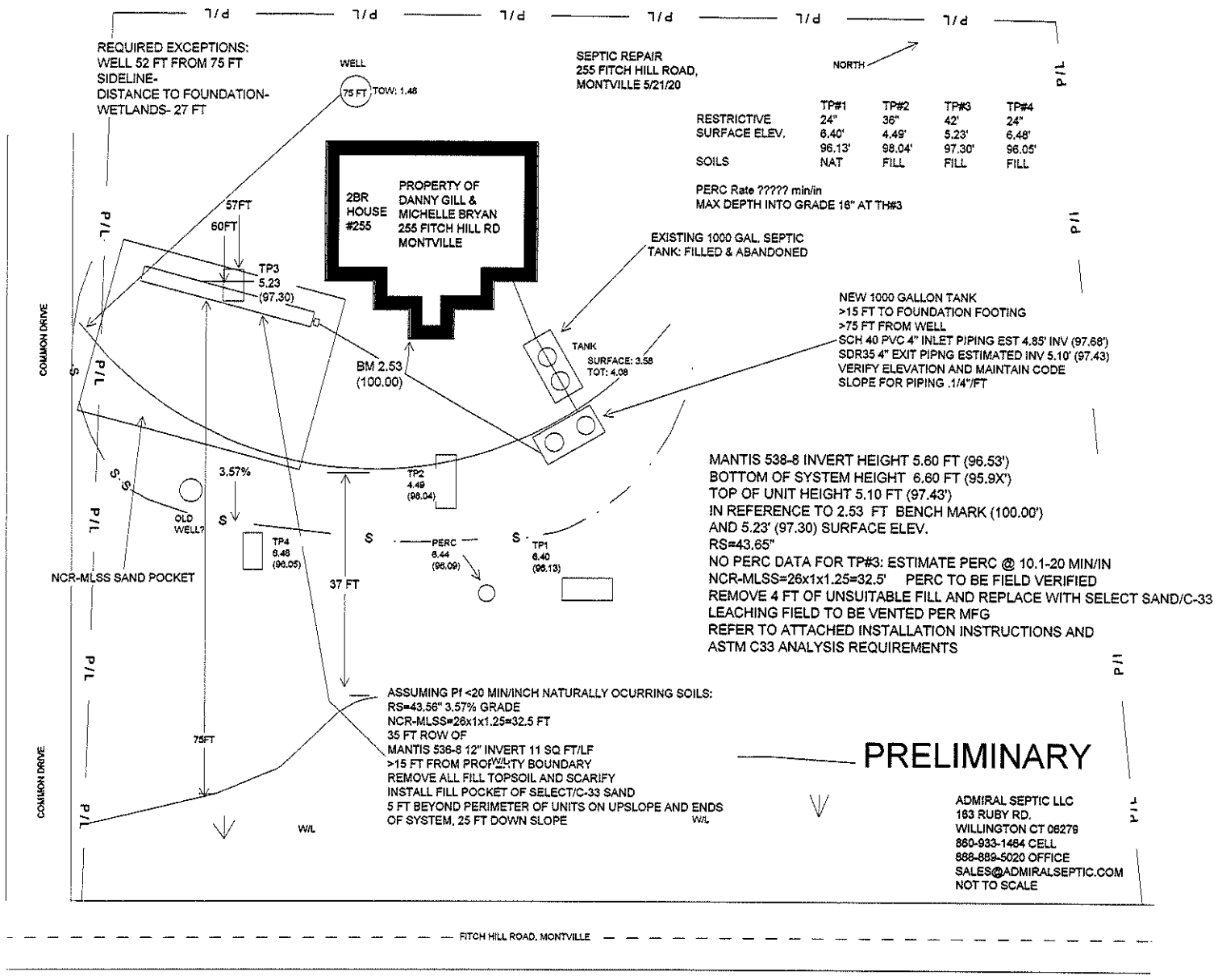
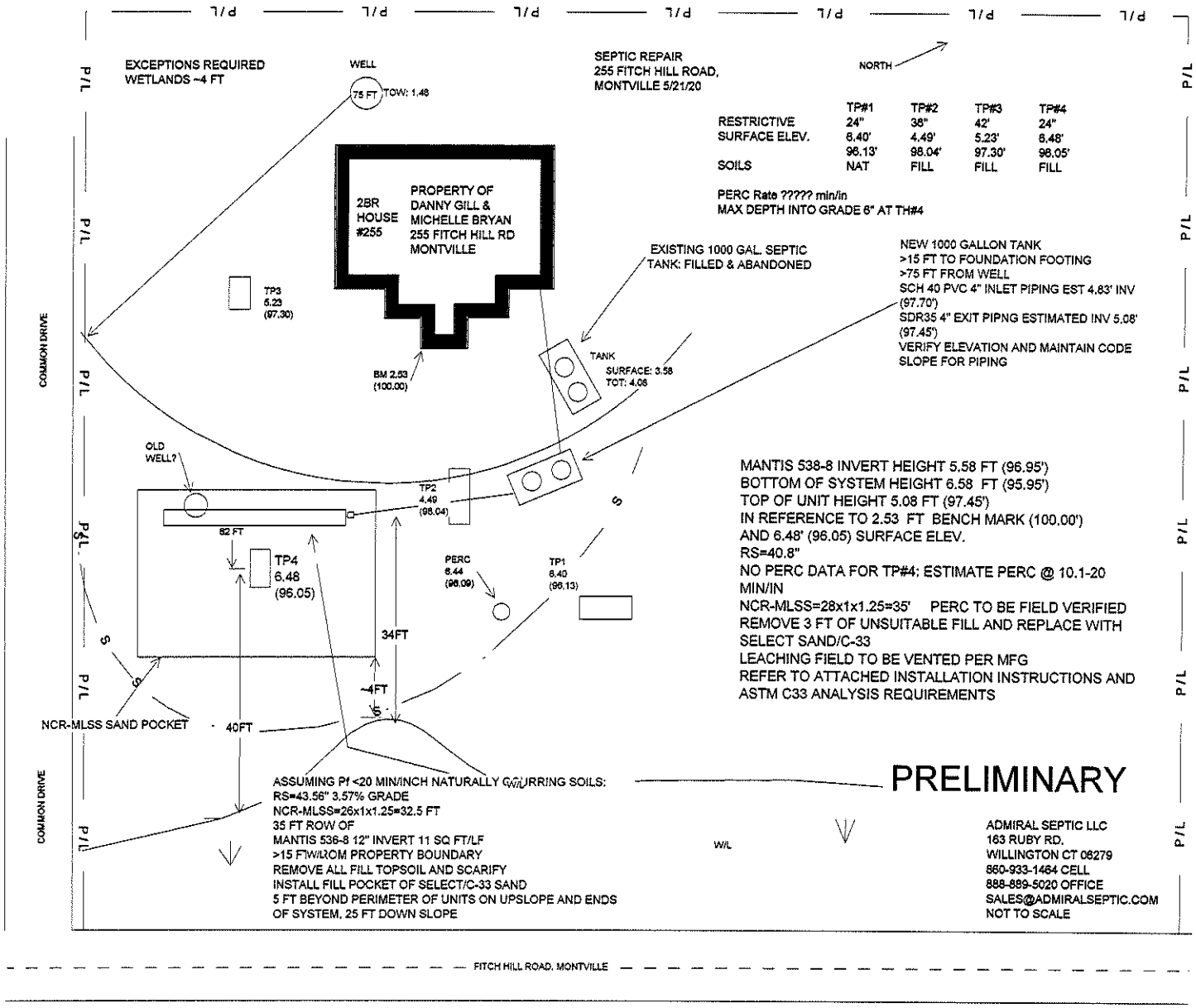

REQUIRED EXCEPTIONS:
WELL 52 FT FROM 75 FT SIDELINE-
DISTANCE TO FOUNDATION-
WETLANDS- 27 FT
WELL
75 FT
TOW: 1.48
SEPTIC REPAIR
255 FITCH HILL ROAD,
MONTVILLE 5/21/20
NORTH
RESTRICTIVE
SURFACE ELEV.
SOILS
TP#1 24" 6.40' 96.13' NAT
TP#2 36" 4.49' 98.04' FILL
TP#3 42' 5.23' 97.30' FILL
TP#4 24" 6.48' 96.05' FILL
PERC Rate ????? min/in
MAX DEPTH INTO GRADE 16" AT TH#3
2BR HOUSE #255
PROPERTY OF
DANNY GILL &
MICHELLE BRYAN
255 FITCH HILL RD
MONTVILLE
EXISTING 1000 GAL. SEPTIC
TANK: FILLED & ABANDONED
57FT
60FT
TP3
5.23
(97.30)
BM 2.53
(100.00)
TANK
SURFACE: 3.58
TOT: 4.08
NEW 1000 GALLON TANK
>15 FT TO FOUNDATION FOOTING
>75 FT FROM WELL
SCH 40 PVC 4" INLET PIPING EST 4.85' INV (97.68')
SDR35 4" EXIT PIPNG ESTIMATED INV 5.10' (97.43)
VERIFY ELEVATION AND MAINTAIN CODE
SLOPE FOR PIPING .1/4"/FT
COMMON DRIVE
3.57%
TP2
4.49
(98.04)
OLD WELL?
TP4
6.48
(96.05)
PERC
6.44
(96.09)
TP1
6.40
(96.13)
NCR-MLSS SAND POCKET
37 FT
MANTIS 538-8 INVERT HEIGHT 5.60 FT (96.53')
BOTTOM OF SYSTEM HEIGHT 6.60 FT (95.9X')
TOP OF UNIT HEIGHT 5.10 FT (97.43')
IN REFERENCE TO 2.53 FT BENCH MARK (100.00')
AND 5.23' (97.30) SURFACE ELEV.
RS=43.65"
NO PERC DATA FOR TP#3: ESTIMATE PERC @ 10.1-20 MIN/IN
NCR-MLSS=26x1x1.25=32.5' PERC TO BE FIELD VERIFIED
REMOVE 4 FT OF UNSUITABLE FILL AND REPLACE WITH SELECT SAND/C-33
LEACHING FIELD TO BE VENTED PER MFG
REFER TO ATTACHED INSTALLATION INSTRUCTIONS AND
ASTM C33 ANALYSIS REQUIREMENTS
ASSUMING Pf <20 MIN/INCH NATURALLY OCURRING SOILS:
RS=43.56" 3.57% GRADE
NCR-MLSS=26x1x1.25=32.5 FT
35 FT ROW OF
MANTIS 536-8 12" INVERT 11 SQ FT/LF
>15 FT FROM PROPERTY BOUNDARY
REMOVE ALL FILL TOPSOIL AND SCARIFY
INSTALL FILL POCKET OF SELECT/C-33 SAND
5 FT BEYOND PERIMETER OF UNITS ON UPSLOPE AND ENDS
OF SYSTEM, 25 FT DOWN SLOPE
75FT
W/L
PRELIMINARY
ADMIRAL SEPTIC LLC
163 RUBY RD.
WILLINGTON CT 06279
860-933-1464 CELL
888-889-5020 OFFICE
SALES@ADMIRALSEPTIC.COM
NOT TO SCALE
FITCH HILL ROAD, MONTVILLE

Exhibit F


EXCEPTIONS REQUIRED
WETLANDS ~4 FT
WELL
75 FT
TOW: 1.48
SEPTIC REPAIR
255 FITCH HILL ROAD,
MONTVILLE 5/21/20
NORTH
TP#1 TP#2 TP#3 TP#4
RESTRICTIVE 24" 36" 42" 24"
SURFACE ELEV. 6.40' 4.49' 5.23' 6.48'
96.13' 98.04' 97.30' 96.05'
SOILS NAT FILL FILL FILL
PERC Rate ????? min/in
MAX DEPTH INTO GRADE 6" AT TH#4
2BR HOUSE #255
PROPERTY OF
DANNY GILL &
MICHELLE BRYAN
255 FITCH HILL RD
MONTVILLE
EXISTING 1000 GAL. SEPTIC TANK: FILLED & ABANDONED
NEW 1000 GALLON TANK
>15 FT TO FOUNDATION FOOTING
>75 FT FROM WELL
SCH 40 PVC 4" INLET PIPING EST 4.83' INV (97.70')
SDR35 4" EXIT PIPNG ESTIMATED INV 5.08' (97.45')
VERIFY ELEVATION AND MAINTAIN CODE SLOPE FOR PIPING
TP3
5.23
(97.30)
BM 2.53
(100.00)
TANK
SURFACE: 3.58
TOT: 4.08
OLD WELL?
TP2
4.49
(98.04)
62 FT
TP4
6.48
(96.05)
PERC
6.44
(96.09)
TP1
6.40
(96.13)
34FT
~4FT
40FT
NCR-MLSS SAND POCKET
COMMON DRIVE
P/L
W/L
MANTIS 538-8 INVERT HEIGHT 5.58 FT (96.95')
BOTTOM OF SYSTEM HEIGHT 6.58 FT (95.95')
TOP OF UNIT HEIGHT 5.08 FT (97.45')
IN REFERENCE TO 2.53 FT BENCH MARK (100.00')
AND 6.48' (96.05) SURFACE ELEV.
RS=40.8"
NO PERC DATA FOR TP#4; ESTIMATE PERC @ 10.1-20 MIN/IN
NCR-MLSS=28x1x1.25=35' PERC TO BE FIELD VERIFIED
REMOVE 3 FT OF UNSUITABLE FILL AND REPLACE WITH SELECT SAND/C-33
LEACHING FIELD TO BE VENTED PER MFG
REFER TO ATTACHED INSTALLATION INSTRUCTIONS AND ASTM C33 ANALYSIS REQUIREMENTS
ASSUMING Pf <20 MIN/INCH NATURALLY OCCURRING SOILS:
RS=43.56" 3.57% GRADE
NCR-MLSS=26x1x1.25=32.5 FT
35 FT ROW OF
MANTIS 536-8 12" INVERT 11 SQ FT/LF
>15 FT FROM PROPERTY BOUNDARY
REMOVE ALL FILL TOPSOIL AND SCARIFY
INSTALL FILL POCKET OF SELECT/C-33 SAND
5 FT BEYOND PERIMETER OF UNITS ON UPSLOPE AND ENDS OF SYSTEM, 25 FT DOWN SLOPE
PRELIMINARY
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WILLINGTON CT 06279
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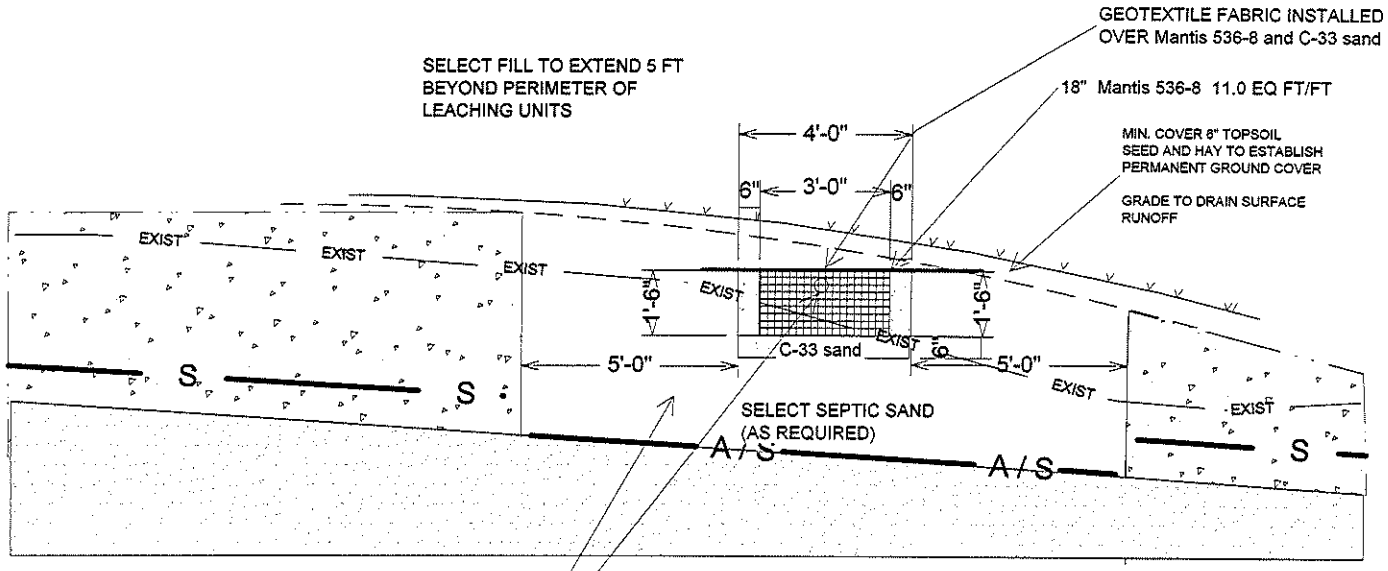
888-889-5020 OFFICE
SALES@ADMIRALSEPTIC.COM
NOT TO SCALE
FITCH HILL ROAD, MONTVILLE

Exhibit G

TYPICAL TRENCH CROSS SECTION



TOP OF UNIT 5.40 FT (97.13')

INVERT HEIGHT 5.90 FT (96.83')

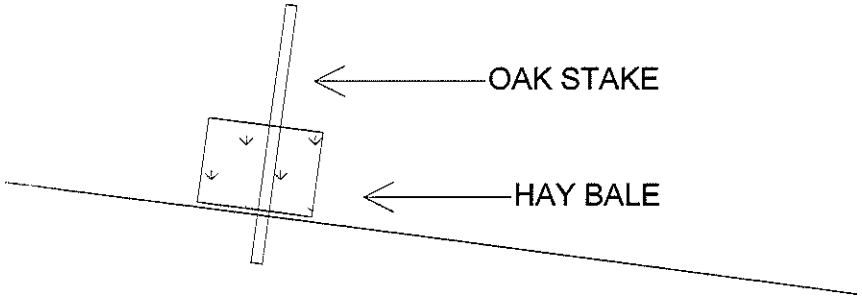
BOTTOM OF SYSTEM HEIGHT 6.90 FT (95.80')

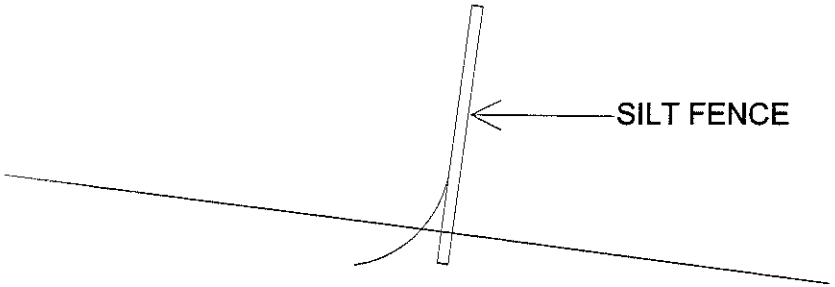
RESTRICTIVE LAYER 24"

IN REFERENCE TO 2.53 FT (100.00') BENCH MARK

ADMIRAL SEPTIC LLC
163 RUBY RD
WILLINGTON, CT 06279
860-933-1464/888-889-5020

Exhibit H





SILT FENCE AND HAY BALE
INSTALLATION-TYPICAL

ADMIRAL SEPTIC LLC
163 RUBY RD.
WILLINGTON CT 06279
860-933-1464 CELL
888-889-5020 OFFICE
SALES@ADMIRALSEPTIC.COM

Exhibit I

Joseph Basil
255 Fitch Hill Rd
Montville CT 06382

February 20, 2020

David Lytwyn
Admiral Septic
163 Ruby Rd
Willington CT 06279

I, Joseph Basil, give permission for David Lytwyn from Admiral Septic to move forward with design and presentation of the proposed septic system to the Wetlands Commission. The Wetlands Commission and Admiral Septic have permission to access the property at 255 Fitch Hill Rd Montville Ct to perform site visits and acquire the appropriate site data to achieve wetlands approvals for construction of a septic system.

Thank you for your time,

Joseph Basil 02/20/2020 08:56 PM GMT

Joseph Basil
(306) 304-9247

Exhibit 5

From: Colleen Bezanson <CBezanson@montville-ct.org>
Sent: Tuesday, July 14, 2020 9:14 AM
To: sales@admiralseptic.com
Subject: 255 Fitch
Attachments: Subdivision and Land Record Maps.pdf

Please contact the Town Clerk's office to get copies of the attached maps. The Town Hall is open so you can come in and view them. The IWC meets the 3rd Thursday of the month at 7:00 pm. Currently the meetings are virtual but that is subject to change. The fee will be $110 cash or check made payable to the Town of Montville. Applications are due the Wednesday the week before the meeting. 9 Hard copies are needed as well as a digital copy of the map.

Colleen Bezanson
Assistant Planner/ Gis Specialist
Town of Montville
310 Norwich New London Tpke
Uncasville, CT. 06382
(860) 848-6779

Exhibit J

Subdivision and Land Record Maps

Maps are located in the Town Clerks Office

Subdivision: Uncas Manor Map #'s V1P4, 184A

Additional Maps #'s 35A

Exhibit K

From: sales@admiralseptic.com
Sent: Sunday, June 14, 2020 9:32 PM
To: Michael Kirby
Subject: RE: 255 Fitch Hill Road
Attachments: 255 Fitch Hill Rd Montville septic TP1 design.pdf; 255 Fitch Hill Rd Montville septic TP 3 design.pdf; 255 Fitch Hill Montville septic TP4 design.pdf

Hello Mike,

I've attached three designs based on test holes #1,#3, & #4 to hopefully clarify my concerns and proposed preferred design for TP #1.

TP#1 design:
Pros-Soils are naturally occurring with restrictive at 24" and does comply with MLSS. Based on site evaluation, both the tank and leaching field are outside the existing well radius. The down hill area of disturbance for a standard Mantis 536-8 leaching field would be 34 ft for the leaching units, and 28 ft for the lower edge of the fill pocket from the wetlands. Old well not a significant concern for contamination by effluent.

Cons-Old well(?) would need to be excavated, filled with site material/abandon. WTW drywell would need to be added on south side of property in fill soils.

TP#2 Consideration of a design for TP#2 area was discarded due to the NCR-MLSS fill pocket would extend into the wetlands.

TP#3 preliminary design:
Pros-farthest location of leaching units from surface wetlands. Lower edge of fill pocket at 34' from wetlands. WTW could be in native soils in the area of TP#1.

Cons- Soils are fill/topsoil down into water table. Less than 8" of naturally occurring soil (TS). NCR-MLSS design required. No perc data at this time to determine MLSS and may be slower than 30 min/in due to topsoil layer and mechanical compaction from construction equipment used to transport and spreads the significant quantity of fill in the wetlands area of this site. Conversely TP#3 may have the opposite problem that the soils are fast (hence the hand dug well located in near proximity). Exceptions required: well exception, sideline exception, foundation exception. The old well is downhill of septic potentially requiring a more stringent abandonment (excavated and fill with bentonite).

TP#4 preliminary design:
Pros-Based on site evaluation, both the tank and leaching field are outside the existing well radius. WTW could be in native soils in the area of TP#1.

Cons-Soils are fill/topsoil down into water table. Less than 0" of naturally occurring soil (TS). NCR-MLSS design required. Lower edge of select/C-33 fill pocket would be ~4ft from wetlands. TP#4 was excavated to 84+ inches but shoaled in to a 43" depth in <24hrs-indicating potentially higher permeability soils (hence adjacent hand dug well in that area). Hand dug well would be directly in leach field/fill pocket, potentially requiring a more stringent abandonment (excavated and fill with bentonite). Conversely, with no perc data at this time to determine MLSS and may be slower than 30 min/in due to buried topsoil layer and mechanical compaction from construction equipment used to transport and spreads the significant quantity of fill in the wetlands area of this site.

Exhibit K

Based on the site data and designs, the design located in the TP#1 area would offer the better system due to the native soils offering better processing of effluent thereby protecting groundwater and the wetlands. Additionally, there would be no code exceptions required, and the lower edge of disturbance is only 6 ft closer to the wetlands at 28 ft, than TP#3 design at 34 ft (which would require 3 code exceptions and is in high permeability soils, not in native soils).

Feel free to comment and/or contact me by phone or email.

Thanks

David Lytwyn
AdmiralSeptic.com
888-889-5020
860-933-1464 mobile

Exhibit L

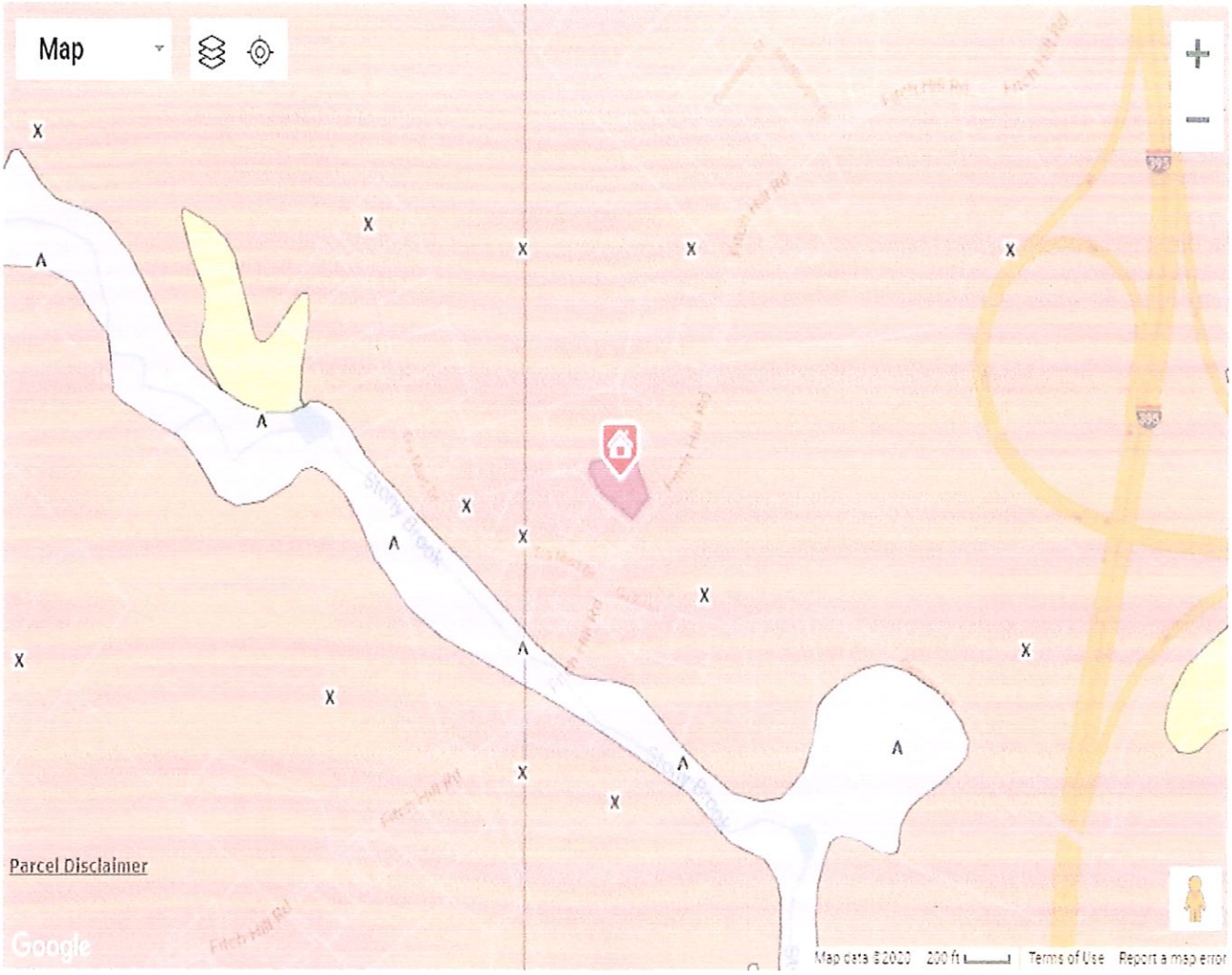
Listing | Att. Docs-download only | Photos | Public Records | Maps | Flood | Prop. History | Tour/Open House

Property Flood Report

255 Fitch Hill Road, Montville, CT 06382 MLS#: 170209895

Flood Zone Code:	X	Within 250 feet of Multiple Flood Zones:	No
Flood Zone Panel:	09011C0351G	Special Flood Hazard Area (SFHA):	Out
Panel Date:	07/18/2011		
Flood Code Description:	**Zone X-An Area That Is Determined To Be Outside The 100- And 500-Year Floodplains.**		

This map/report was produced using multiple sources. It is provided for informational purposes only. This map/report should not be relied upon by any third parties. It is not intended to satisfy any regulatory guidelines and should not be used for this or any other purpose.



Coastal 100-Year Floodway | Coastal 100-year Floodplain | 100-year Floodway | 100-year Floodplain | Undetermined

500-year Floodplain incl. levee protected area | Out of Special Flood Hazard Area

EXHIBIT M

From: Michael Kirby <chfsanit@uncashd.org>
Sent: Thursday, July 2, 2020 2:35 PM
To: sales@admiralseptic.com
Subject: RE: 255 Fitch Hill Road

Hi David,

The test hole will need to be dug prior to the issuance of the permit. You should contact the planning department to see if they have any requirements regarding the digging of the test hole.

From: sales@admiralseptic.com <sales@admiralseptic.com>
Sent: Monday, June 29, 2020 9:11 PM
To: Michael Kirby <chfsanit@uncashd.org>
Subject: RE: 255 Fitch Hill Road

Hello Mike,

Attached are revisions as requested. For the additional test hole, when do you want to dig it, now or at the time of system install?

David Lytwyn
AdmiralSeptic.com
888-889-5020
860-933-1464 mobile

-------- Original Message --------
Subject: 255 Fitch Hill Road
From: "Michael Kirby" <chfsanit@uncashd.org>
Date: Wed, June 17, 2020 12:43 pm
To: "sales@admiralseptic.com" <sales@admiralseptic.com>

#wmQuoteWrapper /* Font Definitions */ @font-face {font-family:"Cambria Math"; panose-1:2 4 5 3 5 4 6 3 2 4;} #wmQuoteWrapper @font-face {font-family:Calibri; panose-1:2 15 5 2 2 2 4 3 2 4;} #wmQuoteWrapper @font-face {font-family:"Script MT Bold"; panose-1:3 4 6 2 4 6 7 8 9 4;} #wmQuoteWrapper /* Style Definitions */ p.MsoNormal, #wmQuoteWrapper li.MsoNormal, #wmQuoteWrapper div.MsoNormal {margin:0in; margin-bottom:.0001pt; font-size:11.0pt; font-family:"Calibri",sans-serif;} #wmQuoteWrapper span.EmailStyle17 {mso-style-type:personal-compose; font-family:"Calibri",sans-serif; color:windowtext;} #wmQuoteWrapper .MsoChpDefault {mso-style-type:export-only; font-family:"Calibri",sans-serif;} #wmQuoteWrapper @page WordSection1 {size:8.5in 11.0in; margin:1.0in 1.0in 1.0in 1.0in;} #wmQuoteWrapper div.WordSection1 {page:WordSection1;}
David,

My comments are attached. I am only reviewing the proposed system at TH 1.

Mike

EXHIBIT M

Michael J. Kirby, R.S.
Chief Environmental Sanitarian
860-823-1189 Extension 119

Exhibit N

List of abutters:

Evelyn M Kokoska

257D Fitch Hill Rd

Uncasville Ct 06382

Sheng Mei Huang

259 Fitch Hill Rd

Uncasville Ct 06382

Kathleen Ryan

245 Fitch Hill Rd

Uncasville Ct 06382

WF Bros LLC

Fitch Hill Rd

Montville Ct 06353

255 Fitch Hill Rd Montville IWC septic repair application-list of exhibits

-Montville IWC application

-IWC checklist

-Exhibit A GIS wetlands mapping

-Exhibit B Aerial view of property with test pit locations 1-4

-Exhibit C Uncas Health soil testing results

-Exhibit D Septic design in TP#1 area with additional TP# 5&6

-Exhibit E Septic design TP#3 area

-Exhibit F Septic design TP#4 area

-Exhibit G Typical leaching trench cross section

-Exhibit H Typical silt fence/hay bale installation

-Exhibit I Owner permission letter

-Exhibit J Colleen Bezanson letter IWC application and map requirements

-Exhibit K email to Uncas Health design review pros and cons per location

-Exhibit L property flood report map

-Exhibit M Uncas Health email requesting additional Test hole to verify TP#1 design/approval

-Exhibit N list of abutters

David Lytwyn –Admiral Septic LLC presenting

Property owner Joseph Basil

Septic was inspected 12/6/19 and deemed failed due to high operating levels, structural deterioration of components (risk of collapse), heavy sludge and grease build up in associated piping, and was deemed at the end of it's service life. Areas of safety concern were marked.

Soil testing was performed 12/23/19. Test pits 1 &2 had native material present and were suitable for septic disposal. TP 3 &TP 4 had significant fill (4-5 ft) down into wetlands soils extending farther west than portrayed by GIS mapping-IE previously filled wetland.

Exhibit K details the engineering technical review presented to Uncas Health. The area of TP#1 was selected by Uncas and DJL as the most suitable.

Flood mapping shows 255 Fitch hill as a 100 year flood designation, but adjacent properties at lower elevation are not flagged as 100 year risk.

Joseph Basil assumed ownership 1/13/20

Admiral Septic provided 4 design alternatives to the Uncas Health Dept-with pros and cons for TP 1-4. See Exhibit K. Uncas Health reviewed the most viable design and requested a down gradient test hole from the design located at TP#1. 7/2/20

Additional soil testing was performed 8/4/20. Additional soil testing verified original soil data for TP#1 for system location and design approval.

UNCAS
HEALTH DISTRICT

August 14, 2020

Colleen Bezanson
Assistant Planner/ GIS Specialist
Town of Montville
310 Norwich New London Turnpike
Uncasville, CT. 06382

Dear Ms. Bezanson:

The septic system at 255 Fitch Hill Road is backing up into the basement creating a public health nuisance and should be replaced as soon as possible.

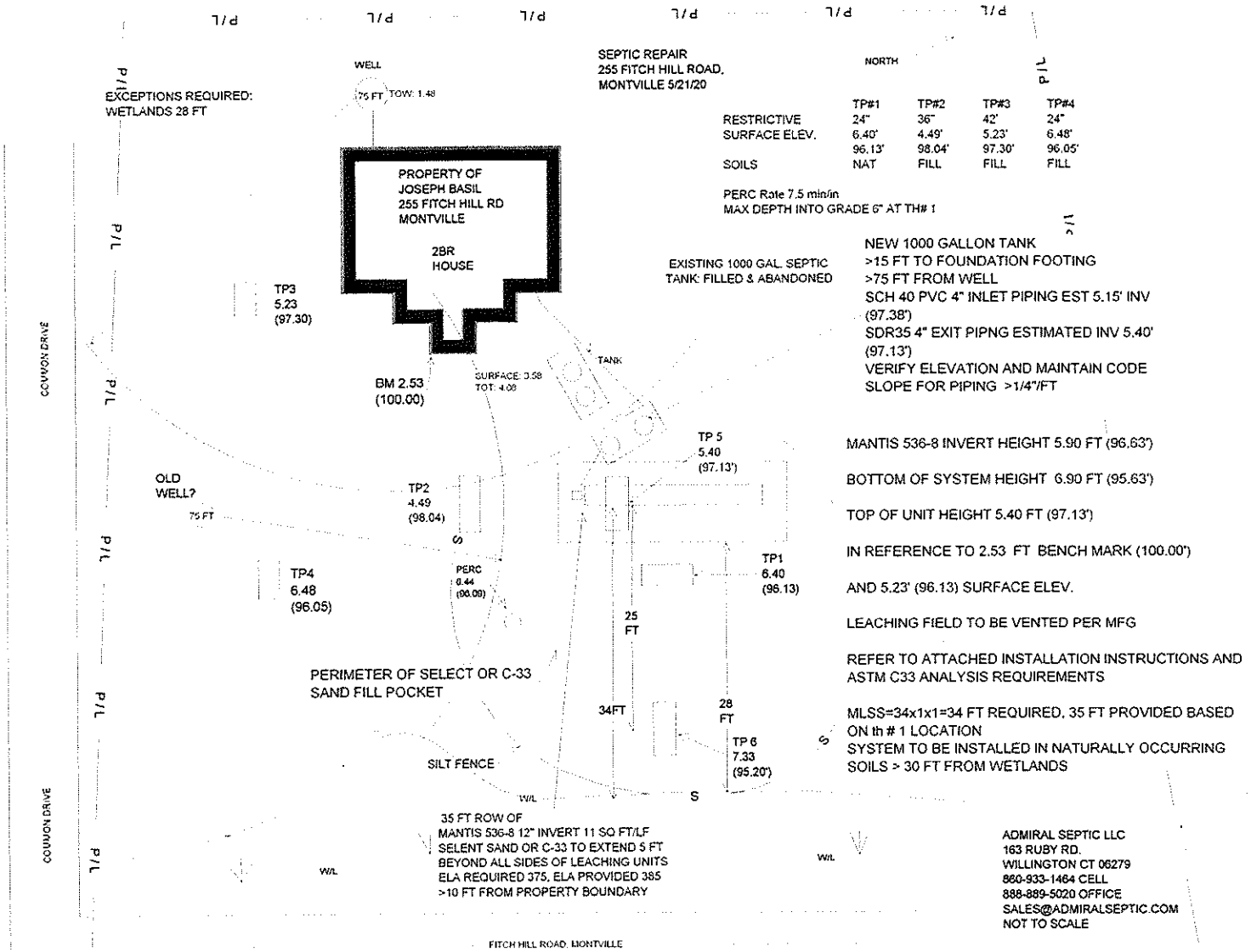
The septic system repair was approved by the District in the area of test hole 1 as that was the only area with natural soil. The other test holes contained fill and the fill extended down to the water table.

Sincerely,

Michael J. Kirby, R.S.
Chief Environmental Sanitarian

401 West Thames Street Suite #106, Norwich, CT 06360-5450
Telephone No. (860) 823-1189 FAX No. (860) 887-7898
E-Mail: chfsanit@uncashd.org
Internet: www.uncashd.org

Exhibit D
Uncas Health Approved Design
Property of Joseph Basil
255 Fitch HIll Rd



	TP#1	TP#2	TP#3	TP#4
RESTRICTIVE	24"	36"	42'	24"
SURFACE ELEV.	6.40'	4.49'	5.23'	6.48'
	96.13'	98.04'	97.30'	96.05'
SOILS	NAT	FILL	FILL	FILL

PERC Rate 7.5 min/in
MAX DEPTH INTO GRADE 6" AT TH# 1

EXISTING 1000 GAL. SEPTIC TANK: FILLED & ABANDONED

NEW 1000 GALLON TANK
>15 FT TO FOUNDATION FOOTING
>75 FT FROM WELL
SCH 40 PVC 4" INLET PIPING EST 5.15' INV (97.38')
SDR35 4" EXIT PIPNG ESTIMATED INV 5.40' (97.13')
VERIFY ELEVATION AND MAINTAIN CODE SLOPE FOR PIPING >1/4"/FT

MANTIS 536-8 INVERT HEIGHT 5.90 FT (96.63')

BOTTOM OF SYSTEM HEIGHT 6.90 FT (95.63')

TOP OF UNIT HEIGHT 5.40 FT (97.13')

IN REFERENCE TO 2.53 FT BENCH MARK (100.00')

AND 5.23' (96.13) SURFACE ELEV.

LEACHING FIELD TO BE VENTED PER MFG

REFER TO ATTACHED INSTALLATION INSTRUCTIONS AND ASTM C33 ANALYSIS REQUIREMENTS

MLSS=34x1x1=34 FT REQUIRED, 35 FT PROVIDED BASED ON th # 1 LOCATION
SYSTEM TO BE INSTALLED IN NATURALLY OCCURRING SOILS > 30 FT FROM WETLANDS