

SOILS DATA

TEST PITS OBSERVED BY RYAN McCAMMON OF CHATHAM HEALTH DISTRICT

TEST PIT# 1P
DATE: 4/5/21
DEPTH: 108"
GROUNDWATER: NONE
MOTTLING: NONE
LEDGE: NONE
MATERIAL: 0-8" DARK BROWN TOPSOIL
8-24/34" ORANGE BROWN FINE SANDY LOAM
34-108" TAN MED SANDY LOAMY SAND (SCHIST)

TEST PIT# 2P
DATE: 4/5/21
DEPTH: 112"
GROUNDWATER: NONE
MOTTLING: NONE
LEDGE: NONE
MATERIAL: 0-7" DARK BROWN TOPSOIL
7-28" ORANGE BROWN FINE SANDY LOAM
28-112" GREY MED SANDY LOAMY SAND (SCHIST)

TEST PIT# 2R
DATE: 4/5/21
DEPTH: 85"
GROUNDWATER: NONE
MOTTLING: NONE
LEDGE: NONE
MATERIAL: 0-10" DARK BROWN TOPSOIL
10-32" ORANGE BROWN FINE SANDY LOAM
32-52" OLIVE ORANGE FINE SILTY LOAM
52-85" GREY MEDIUM SANDY LOAM (SCHIST)

TEST PIT# 1R
DATE: 4/5/21
DEPTH: 83"
GROUNDWATER: NONE
MOTTLING: NONE
LEDGE: NONE
MATERIAL: 0-10" DARK BROWN TOPSOIL
10-46" ORANGE BROWN FINE SANDY LOAM
46-83" GREY MED SANDY LOAMY SAND (SCHIST)

TEST PIT# DG (DOWN GRADIENT)
DATE: 4/5/21
DEPTH: 90"
GROUNDWATER: NONE
MOTTLING: NONE
LEDGE: NONE
MATERIAL: 0-10" DARK BROWN TOPSOIL
10-32" FINE SANDY LOAM
32-90" GREY MED SANDY LOAMY SAND (SCHIST)

NOTE: MAINTAIN A MINIMUM OF 18" ABOVE SCHIST PER CHATHAM HEALTH

M.L.S.S. CALCULATIONS

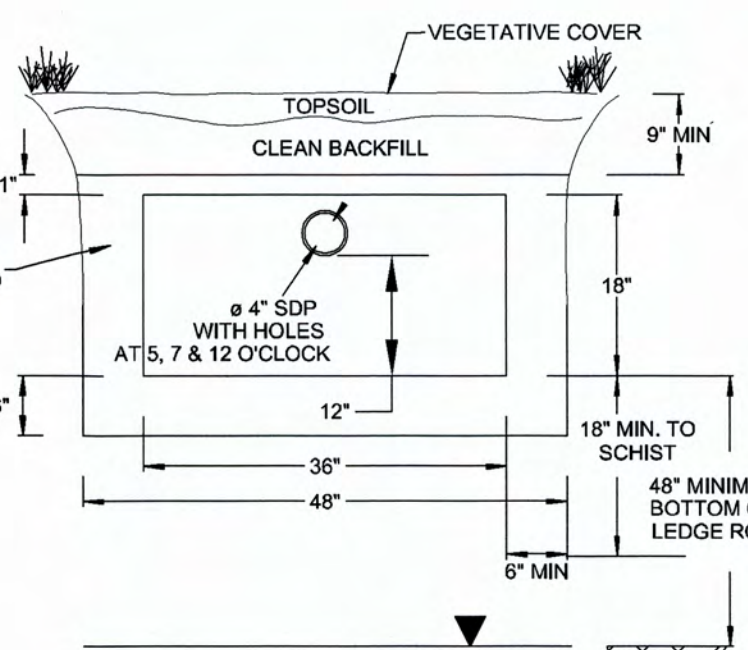
BEDROOMS: 3
RESTRICTIVE LAYER: 26"
SLOPE: 11.3 %
PERC. RATE: 10 MIN./IN.
 $(HF)24 \times (FF)1.25 \times (PF)1.25 = 45 \text{ L.F.}$
675 SF LEACHING AREA REQUIRED

SANITARY SYSTEM DESIGN

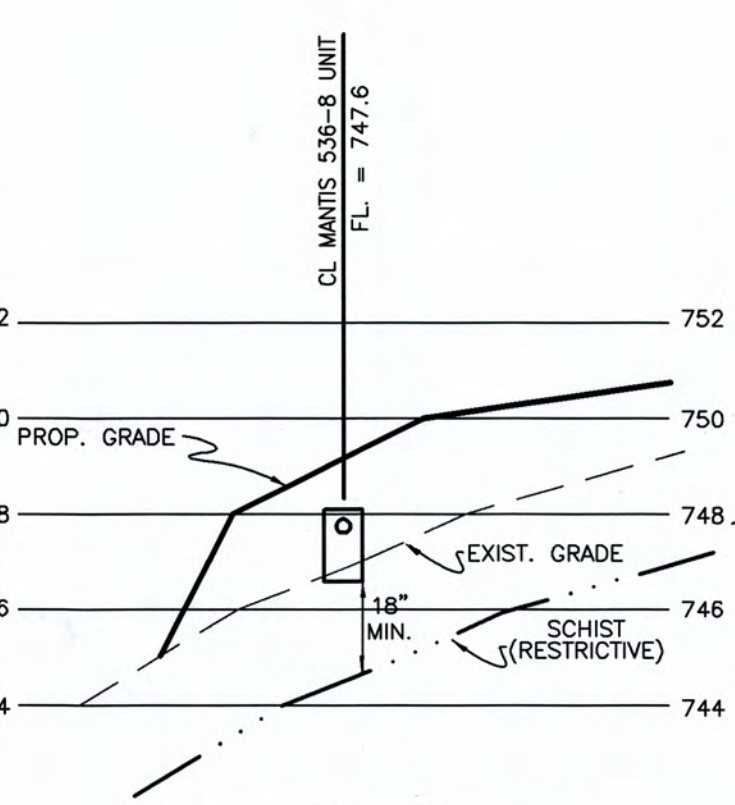
NUMBER OF BEDROOMS: 3
PERCOLATION RATE: 20 MIN./IN.
ABSORPTION AREA REQUIRED: 675 S.F. (MIN.)
USE 1 ROW MANTIS 536-8 UNITS (11S.F./L.F.) 65 L.F. REQ.
SEPTIC TANK CAPACITY: 1000 GAL.
SEPTIC TANK CAPACITY TO BE INCREASED BY 250 GALLONS IF GARBAGE DISPOSAL IS TO BE INSTALLED.
SEPTIC TANK CAPACITY SHALL BE INCREASED IF A LARGE CAPACITY TUB IS TO BE INSTALLED. FOR TUBS 100-200 GALLONS TANK SIZE WILL BE INCREASED BY 250 GALLONS. TUBS OVER 200 GALLONS WILL REQUIRE A 500 GALLON INCREASE IN TANK SIZE.
RISERS MAY BE REQUIRED ON TANK TO WITHIN 1' OF FINISHED GRADE
BENCHMARK TO BE SET IN AREA OF SEPTIC SYSTEM AT TIME OF STAKE OUT

PROPOSED SANITARY SYSTEM ELEVATIONS

BOTTOM OF MANTIS	746.6
FL. MANTIS	747.6
D.B. OUTLET TO MANTIS	747.8
D.B. INLET	748.0
SEPTIC TANK OUTLET	748.20
SEPTIC TANK INLET	748.45
FL. 4" PVC @ FDN. WALL	749.10
TOP OF FOUNDATION	758.00
BASEMENT FLOOR	747.4±
TOP OF SEPTIC TANK	749.2



MANTIS 536-8 DETAIL
N.T.S.



CROSS SECTION A-A
SCALE: HORIZ. 1"=20'
VERT. 1"=4'

PROPOSED FILL QUANTITIES

FILL FOR SEPTIC SYSTEM	FILL WITHIN UPLAND REVIEW AREA	FILL OUTSIDE UPLAND REVIEW AREA	TOTAL PROPOSED FILL
256 C.Y.	422 C.Y.	741 C.Y.	1,163 C.Y.

I HAVE REVIEWED THE WETLAND BOUNDARIES AS SHOWN ON THIS PLAN AND AM OF THE OPINION THAT THEY REPRESENT THE SOIL BOUNDARIES MARKED BY ME IN THE FIELD.

MARK W. FRIEND
SOIL SCIENTIST

MEGSON & HEAGLE CIVIL ENGINEERS & LAND SURVEYORS, LLC 81 RANKIN ROAD GLASTONBURY, CONN. 06033			
JOB NO.	19-21	TEST HOLE NO.	PERC-1
DATE:	4-6-21	BY:	TCJ
DEPTH OF HOLE:	22"	GROUND WATER	⊙
MOTTLING	⊙	LEDGE	⊙
MATERIAL:			
PERCOLATION TEST - COND.:			
TIME	READING	PRESOAK @ 1:30P	
2:15	3.5"	2:50	14.25"
2:20	5.5"	2:55	15"
2:25	7.75"	3:00	15.75"
2:30	4.5"	3:05	16.25"
2:35	11"	3:10	16.75"
2:40	12.25"	3:15	17.25"
2:45	13"		
10.0 MIN./IN.			

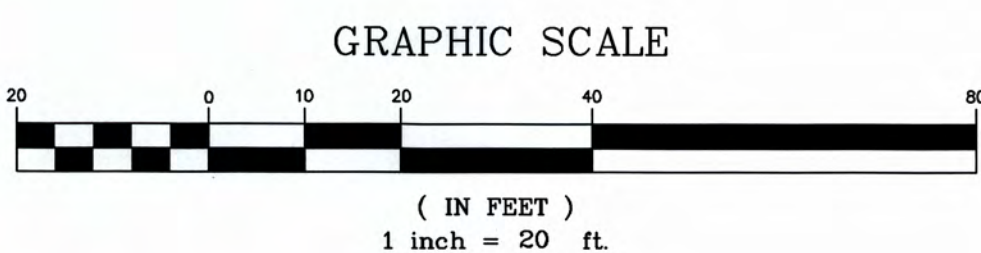
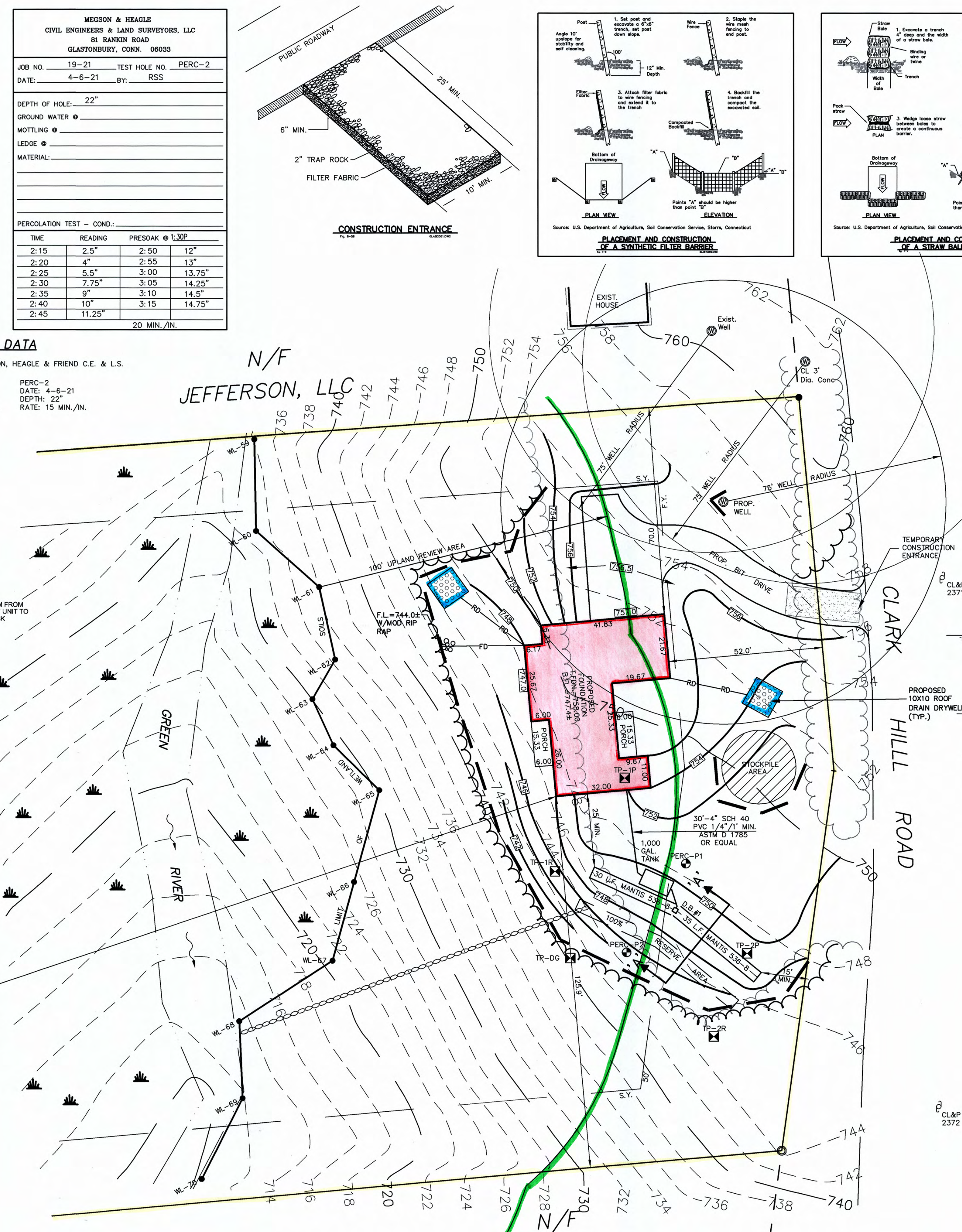
MEGSON & HEAGLE CIVIL ENGINEERS & LAND SURVEYORS, LLC 81 RANKIN ROAD GLASTONBURY, CONN. 06033			
JOB NO.	19-21	TEST HOLE NO.	PERC-2
DATE:	4-6-21	BY:	RSS
DEPTH OF HOLE:	22"	GROUND WATER	⊙
MOTTLING	⊙	LEDGE	⊙
MATERIAL:			
PERCOLATION TEST - COND.:			
TIME	READING	PRESOAK @ 1:30P	
2:15	2.5"	2:50	12"
2:20	4"	2:55	13"
2:25	5.5"	3:00	13.75"
2:30	7.75"	3:05	14.25"
2:35	9"	3:10	14.5"
2:40	10"	3:15	14.75"
2:45	11.25"		
20 MIN./IN.			

PERC. DATA

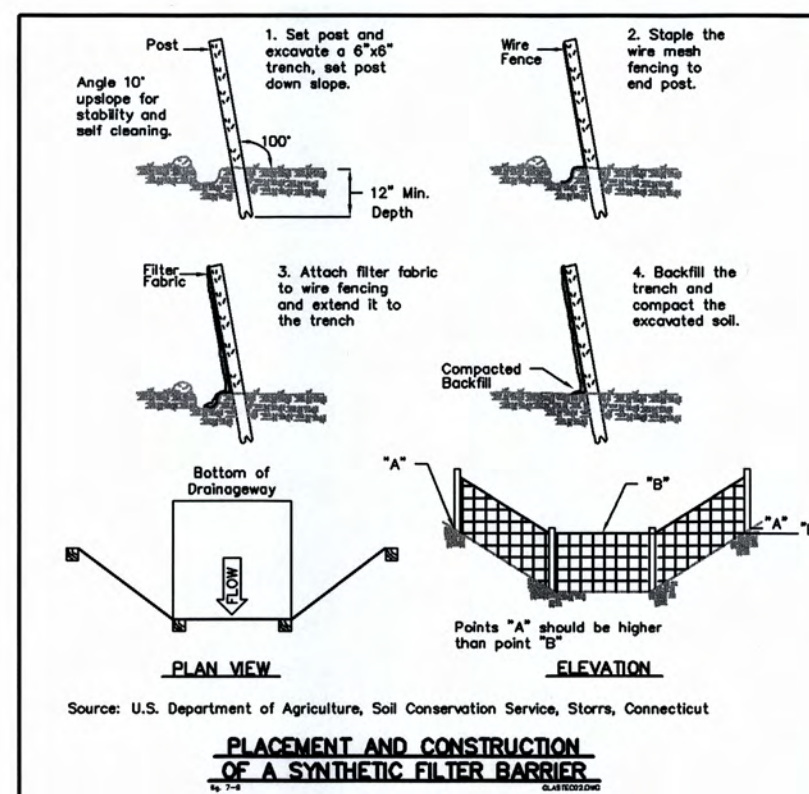
PERC TESTS PERFORMED BY MEGSON, HEAGLE & FRIEND C.E. & L.S.

PERC-1 DATE: 4-6-21 DEPTH: 22" RATE: 10 MIN./IN.
PERC-2 DATE: 4-6-21 DEPTH: 22" RATE: 15 MIN./IN.

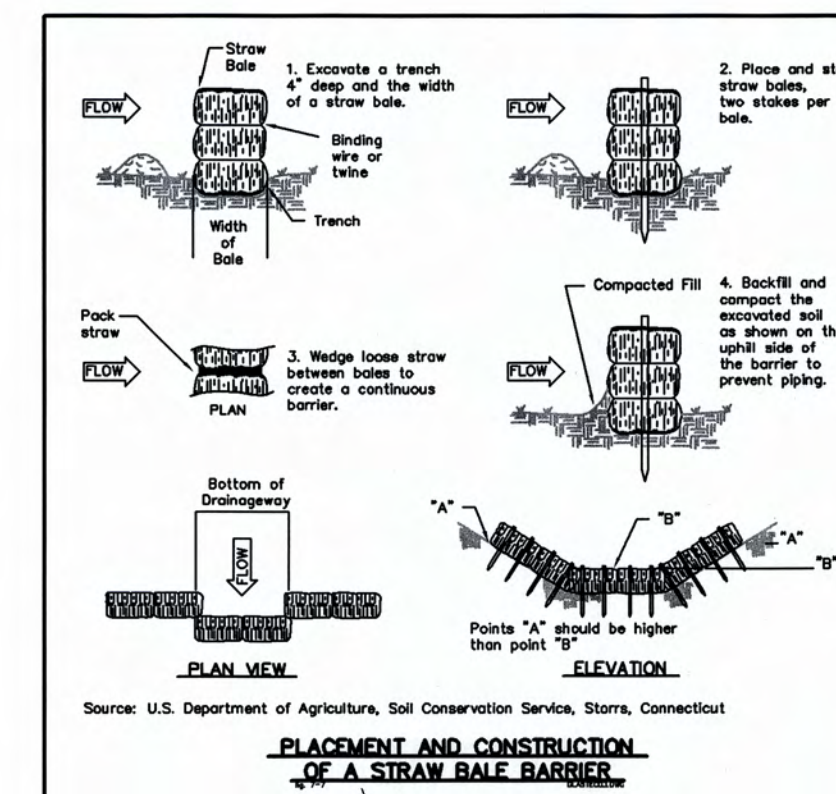
N/F
JEFFERSON, LLC



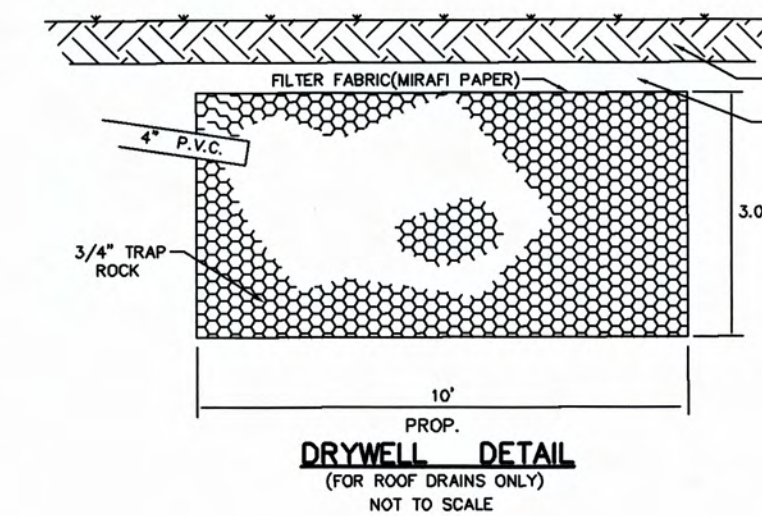
GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.



PLACEMENT AND CONSTRUCTION OF A SYNTHETIC FILTER BARRIER

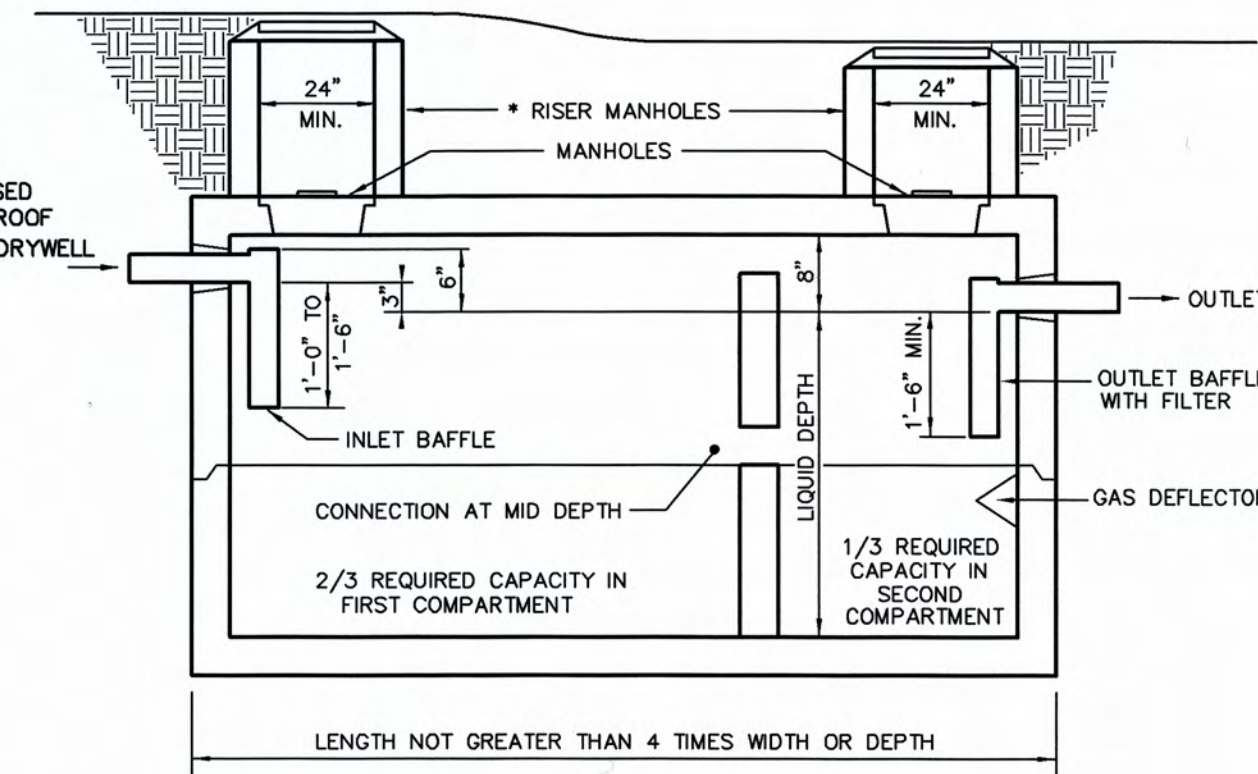


PLACEMENT AND CONSTRUCTION OF A STRAW BALE BARRIER



DRYWELL DETAIL
(FOR ROOF DRAIN ONLY)
NOT TO SCALE

2165 S.F. x 1" x 1" = 180.4 C.F. REQUIRED
DAY 12
AREA OF DRYWELL = 10X10 = 100 S.F./V.F.
100 x 0.33 = 33.00 S.F./V.F. (VOLUME OF VOID SPACE)
180.4 = 5.46 V.F. DRYWELL REQUIRED
33.0
USE (2) 10 X 10 DRYWELLS @ 3.0' DEEP



1,000 GALLON TWO COMPARTMENT SEPTIC TANK
NOT TO SCALE

*ALL TANKS REQUIRING RISERS SHALL MAINTAIN THE ORIGINAL COVER ON TANKS, HAVE RISER COVERS THAT WEIGH AT LEAST 50 LBS. AND/OR INSTALL A SAFETY DEVICE BELOW THE RISER TO PREVENT INDIVIDUALS FROM FALLING INTO THE TANK. ALL BELOW GRADE TANK OR RISER COVER HANDLES SHALL CONTAIN OR BE FITTED WITH A MATERIAL THAT CAN BE LOCATED WITH A METAL DETECTOR.

LEGEND

- EXIST. IRON PIN
- EXIST. IRON PIPE
- EXIST. CONTOUR
- PROPOSED CONTOUR
- EXIST. TREE LINE
- PROP. LIMIT OF TREE CLEARING
- STAKED HAYBALES/SILT FENCE
- POSS. FDN./FTG DRAIN
- PROPOSED ROOF DRAIN

OWNER:
MAURICE GAGNON
2112 FLANAGAN DRIVE
GLASTONBURY, CT.
TEL. (860) 538-6328

SEE SHEET 1 OF 2
FOR BOUNDARY
INFORMATION

RECEIVED
6.29.2021
East Hampton
Land Use Office

THIS MAP IS NOT VALID IF MODIFIED IN ANY WAY AND/OR DOES NOT BEAR THE EMBOSSED SEAL OF THE UNDERSIGNED.

I HEREBY DECLARE TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS PLAN IS SUBSTANTIALLY CORRECT.

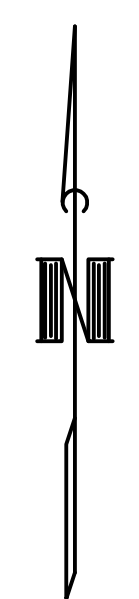
JONATHAN H. SZUREK
P.E. # 26858

MEGSON, HEAGLE & FRIEND
CIVIL ENGINEERS & LAND SURVEYORS, LLC
81 RANKIN ROAD
GLASTONBURY, CONN. 06033
PHONE (860)-669-0687

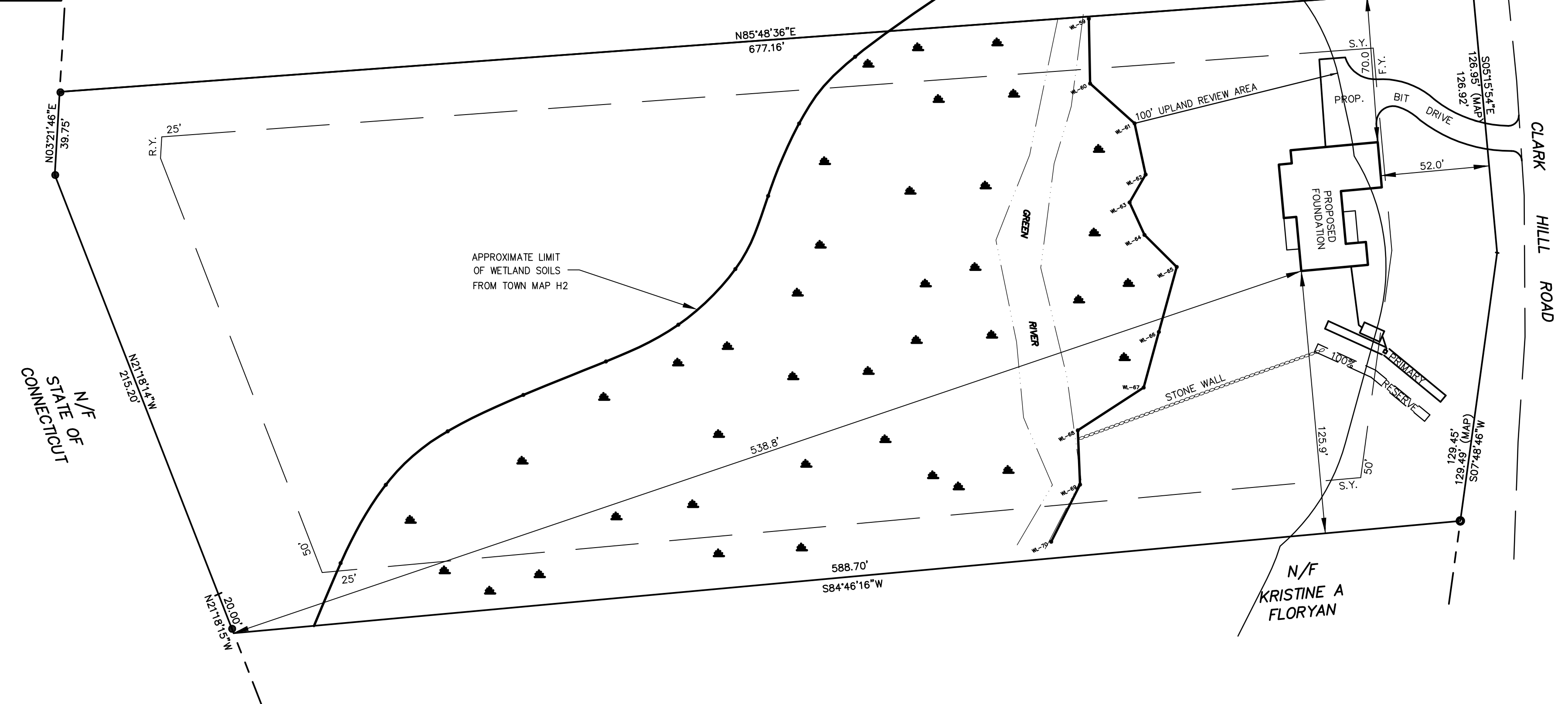
WETLAND PERMIT PLAN ASSESSORS PARCEL 11-40-11B
CLARK HILL ROAD
PREPARED FOR
MAURICE GAGNON
EAST HAMPTON, CONN.

REV. 6-28-21 PROPOSED ROOF DRAIN DRYWELLS & FILL QUANTITIES

CK. BY: RRM
DRW. BY: PEJ
DATE: 5-9-21
SCALE: 1"=20'
SHEET 2 OF 2
MAP NO. 19-21-1PP



LOCATION MAP
SCALE: 1"=500'



HOUSE SITE DEVELOPMENT

PLOT PLANS FOR EACH LOT SHALL INDICATE PROPOSED SEDIMENTATION AND EROSION CONTROLS. THE PROPOSED HOUSE LOCATION, LOT GRADING, LIMIT OF TREE CLEARING, DRIVEWAY DESIGN, SEPTIC SYSTEM DESIGN AND SITE DRAINAGE PLAN SHALL ALSO BE SHOWN. THESE PLANS SHALL BE SUBJECT TO REVIEW AND APPROVAL BY THE TOWN.

ALL DRIVEWAY SHOULDERS SHOULD BE STABILIZED IMMEDIATELY UPON COMPLETION OF ROUGH GRADING. SHOULDER SEED BED PREPARATION SHOULD FOLLOW THE GENERAL NOTES PROVIDED. HAY BALES OR FILTER FABRIC SHOULD BE USED TO ENTRAP ANY SEDIMENT GENERATED FROM EXPOSED SOIL SURFACES. DRIVEWAY ROADBEDS SHALL BE STABILIZED WITH COMPACTED ROAD AGGREGATE AS SOON AS POSSIBLE.

TOPSOIL AND EXCAVATED SUBSOIL FROM THE FOUNDATION AREA SHOULD BE STOCKPILED MUST BE ADEQUATELY RINGED WITH SEDIMENT CONTROL MATERIALS (I.E. HAY BALES AND/OR FILTER FABRIC FENCE).

ANY ADDITIONAL STOCKPILING OF LUMBER OR BUILDING MATERIALS SHOULD ALSO BE CONFINED TO THE AREA OF DISTURBANCE. SIMILARLY, VEHICULAR MOVEMENT SHOULD BE DIRECTED TO ESTABLISHED PARKING AREAS. PROPOSED LEACHING SYSTEM AREAS MUST NOT BE IMPACTED BY VEHICULAR TRAFFIC OR UTILIZED AS PARKING AREAS. DEVELOPMENT OF SEWAGE DISPOSAL LEACHING AREAS SHOULD BE STAGED TO FOLLOW HOUSE SITE PREPARATION. ONLY THE PRIMARY LEACHING SYSTEM NEED BE CLEARED OF EXISTING VEGETATION IN COORDINATION WITH THE APPROVED SEPTIC SYSTEM DESIGN. RESERVE AREAS SHOULD REMAIN UNALTERED IF SITE CONDITIONS PERMIT.

CONTRACTOR SHALL PROVIDE DUMPSTERS AT EACH HOUSE SITE DURING CONSTRUCTION FOR DISPOSAL OF CONSTRUCTION WASTE MATERIALS. THERE SHALL BE NO OUTSIDE STOCKPILES OF CONSTRUCTION WASTE MATERIALS OR DEBRIS.

THE BUILDING LOT SHALL BE LOAMED, SEEDED AND MULCHED WITH STRAW PRIOR TO ISSUANCE OF A C.O. IF THE SEASON DOES NOT PERMIT SEEDING - THEN THE LOT MUST BE STABILIZED WITH STRAW OR NETTING TO PREVENT WINTER AND SPRING EROSION. THE ENVIRONMENTAL PLANNER WILL CHECK LOTS FOR NONCOMPLIANCE WITH EROSION CONTROLS AND STABILIZATION REQUIREMENTS. IF NECESSARY, THE C.O. WILL BE WITHHELD UNTIL THE LOT IS DEEMED STABLE.

PLEASE NOTE - THE BUILDER/OWNER IS RESPONSIBLE FOR ALL EROSION CONTROL AND STABILIZATION REQUIREMENTS. PLEASE REVIEW THE APPROVED PLOT PLAN FOR EROSION CONTROL REQUIREMENTS.

CONTOURS TAKEN FROM ACTUAL FIELD SURVEY. ALL PROPOSED ELEVATIONS ARE IN RELATION TO CONTOURS SHOWN. FINAL ELEVATIONS MAY BE ADJUSTED AS FIELD CONDITIONS WARRANT. VERIFY ALL GRADES IN FIELD.

NOTE: VERIFY ALL UTILITY LOCATIONS IN THE FIELD PRIOR TO START OF ANY WORK (SEE NOTE BELOW).

WARNING: THESE PLANS NOT TO BE USED FOR LOCATION OF UNDERGROUND UTILITIES - CALL BEFORE YOU DIG 1-800-922-4455 TWO WORKING DAYS BEFORE YOU DIG.

VERIFY FOUNDATION DIMENSIONS PRIOR TO CONSTRUCTION

BEARING & COORDINATES REFER TO NAD 83
CONTOURS ARE BASED ON ACTUAL FIELD SURVEY AND REFER TO NAVD 88

ZONE: R-3
LOT AREA = 167,735 S.F.
= 3.850 AC.

SEE SHEET 2 OF 2
FOR SITE GRADING &
SEPTIC DESIGN

REFERENCE MADE TO MAPS TITLED:
"PROPERTY MAP PREPARED FOR EUGENE G. & JANET A. NICHOLS
EAST HAMPTON, CONN. SCALE: 1"=40' DATE MAY 12, 89.
FERDINAND A. CZWAZKA REG. L.S. MARLBOROUGH, CONN."

THIS MAP IS NOT VALID IF MODIFIED IN ANY WAY AND/OR DOES NOT
BEAR THE EMBOSSED SEAL OF THE UNDERSIGNED.

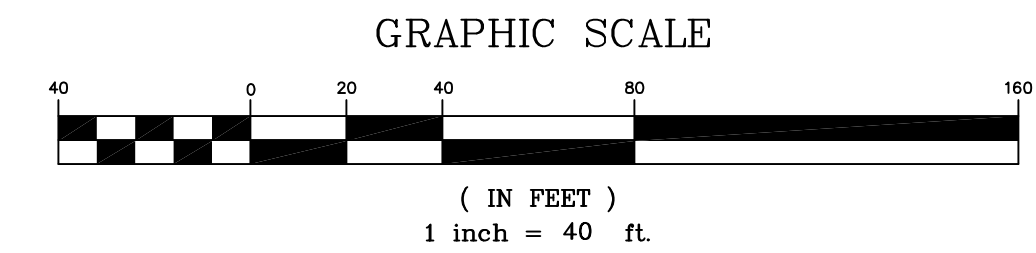
TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT
AS NOTED HEREON. THIS SURVEY WAS PREPARED PURSUANT TO THE
REGULATIONS OF CONNECTICUT STATE AGENCIES SECTION 20-300b-1
THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN
THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT
ASSOCIATION OF LAND SURVEYORS, INC., ON SEPTEMBER 26, 1996.
TYPE OF SURVEY: ZONING LOCATION SURVEY
BOUNDARY DETERMINATION CATEGORY: DEPENDENT RESURVEY
CLASS OF ACCURACY: A-2

I HAVE REVIEWED THE WETLAND BOUNDARIES
AS SHOWN ON THIS PLAN AND AM OF THE
OPINION THAT THEY REPRESENT THE SOIL
BOUNDARIES MARKED BY ME IN THE FIELD.

Mark W. Friend
MARK W. FRIEND
SOIL SCIENTIST

LEGEND

- EXIST. IRON PIN
- EXIST. IRON PIPE



JOHN L. HEAGLE L.S. # 9396

MEGSON, HEAGLE & FRIEND
CIVIL ENGINEERS & LAND SURVEYORS, LLC
81 RANKIN ROAD
GLASTONBURY, CONN. 06033
PHONE (860)-659-0587

WETLAND PERMIT PLAN ASSESSORS PARCEL 11-40-11B
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REV. 6-28-21 PROPOSED ROOF DRAIN DRYWELLS & FILL QUANTITIES

CK. BY: RRM
DRW. BY: PEJ
DATE: 5-9-21
SCALE: 1"=40'
SHEET 1 OF 2
MAP NO. 19-21-1PP

OWNER:
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P:\2021\19-21-1PP\19-21-1PP\19-21-1PP.dwg 6/28/21 10:42:27 PM EDT