

INLAND WETLANDS COMMISSION
TUESDAY, April 13, 2021
ZOOM Meeting

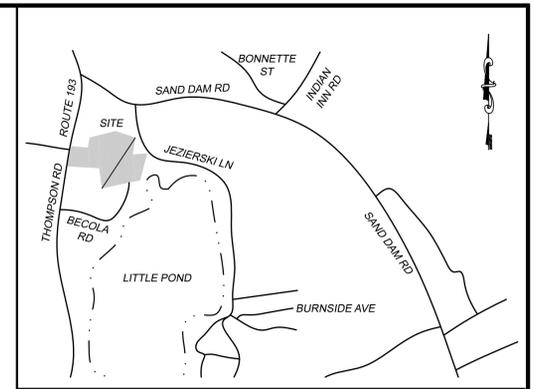
- A) Call to Order & Roll Call
- B) Appointment of Alternates

Agenda Item C.a.
Action on Minutes of Previous Meeting
Minutes of March 9, 2021

Agenda Item D.
Citizens Comments on Agenda Items

Agenda Item E.a) 1. Old Applications

IWA21004, Keith & Karolyn Champagne, 1321 Thompson Rd w/access from Becola Rd (Assessor's map 114, block 24, lot 54), filling of about 150 square feet of wetlands to provide pedestrian access to Little Pond associated with the construction of single family home located in the 200 foot upland review area review area in Little Pond, stamped received 2/11/2021, statutorily received 3/9/2021.



LOCATION MAP
1" = 1000'

SURVEY NOTES:

1. THIS MAP HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARD FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.

SURVEY TYPE: SUBDIVISION

BOUNDARY DETERMINATION CATEGORY: DEPENDENT RESURVEY, ORIGINAL SURVEY.

ACCURACY: CLASS A2

PURPOSE: TO SUBDIVIDE LOT 54

2. REFERENCE PLANS:

A. CT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP TOWN OF THOMPSON, BRANDY HILL ROAD FROM THE R.R. UNDERPASS NORTHERLY TO THE MASS. STATE LINE ROUTE NO. 193, SHEET 3 OF 4 SCALE 1" = 40', 4-30-57.

B. BOUNDARY LINE AGREEMENT PLAN PREPARED FOR NELLIE WEISS, LOT 56B SAND DAM ROAD, THOMPSON CT, BY MESSIER & ASSOCIATES, FILED AS PLAN NO. 1354

C. PLAN OF LAND CONVEYED TO TOWN OF THOMPSON BY LEON P. JEZERSKI, THOMPSON, CONN, SCALE 1" = 50', SEPT. 12, 1965, BY GILBERT F. PERRY C.E., FILED AS PLAN NO. 485.

D. LAKESIDE LOTS OF BERNHARDT LANGER, THOMPSON, CONN., SCALE 1" = 40' BY WM. K. PIKE & SON C.E.s, 1947.

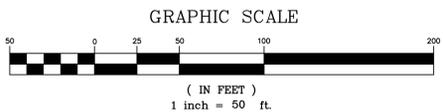
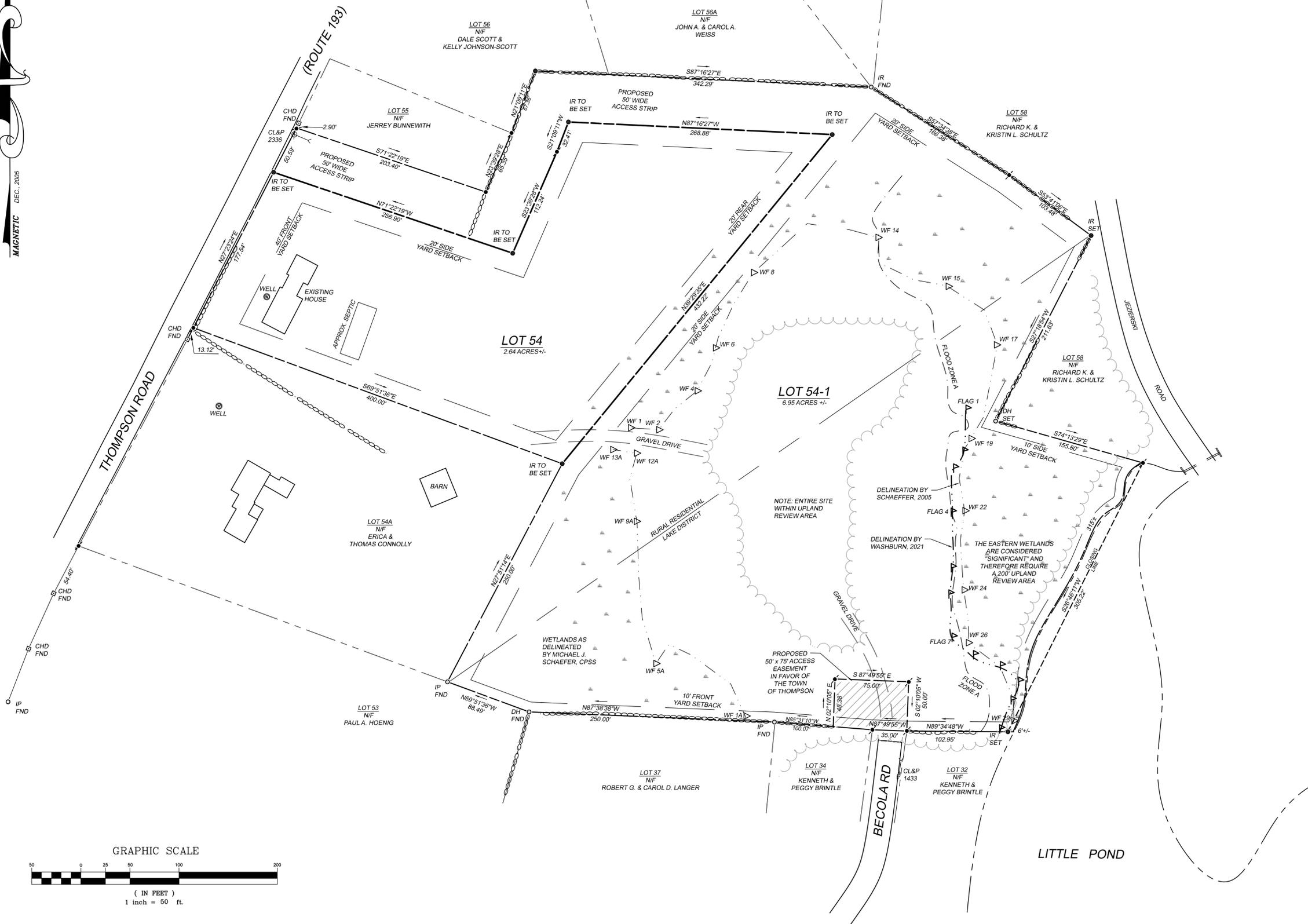
FLOOD ZONE DEPICTED HEREON REFERENCES FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NUMBER 0901170010B, DATED NOVEMBER 1, 1984.

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

JOHN A. BARTOLOMEI	DATE	LICENSE NUMBER

LEGEND

- EXISTING MONUMENT
- IRON ROD SET OR TO BE SET
- ANGLE POINT
- EXISTING IRON ROD OR IRON PIPE
- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- BUILDING SETBACK
- EDGE OF EASEMENT
- STONE WALL
- UTILITIES
- TREELINE
- FLOOD ZONE A
- WETLAND FLAG BY SCHAEFFER, 2005
- WETLAND FLAG BY WASHBURN, 2021



ZONING INFORMATION:

ZONE: RURAL RESIDENTIAL AGRICULTURAL
MINIMUM AREA: 40,000 S.F.
MINIMUM FRONTAGE: 150 FT (50 FOR INTERIOR LOTS)
MINIMUM FRONT YARD: 40 FT
MINIMUM SIDE YARD: 20 FT
MINIMUM REAR YARD: 20 FT

ZONING INFORMATION:

ZONE: LAKE DISTRICT
MINIMUM AREA: 4,500 S.F.
MINIMUM FRONTAGE: 50 FT
MINIMUM FRONT YARD: 10 FT
MINIMUM SIDE YARD: 10 FT
MINIMUM REAR YARD: 10 FT

PROPERTY OWNER
CHARLES R. ADAMS

REFERENCE DEED
THOMPSON LAND RECORDS
VOL. 807 PG. 167

ASSESSORS REFERENCE
MAP 114 BLOCK 24 LOT 54

TOWN OF THOMPSON RECEIVED FOR RECORDING	APPROVED PLANNING AND ZONING COMMISSION	APPROVED INLAND WETLANDS COMMISSION
	CHAIRMAN _____ DATE _____	CHAIRMAN _____ DATE _____
TOWN CLERK _____ DATE _____ TIME _____ MAP # _____		

SUBDIVISION PLAN
PREPARED FOR
KAROLYN & KEITH CHAMPAGNE
1321 THOMPSON ROAD, THOMPSON, CT
MAP 114, BLOCK 24, LOT 54

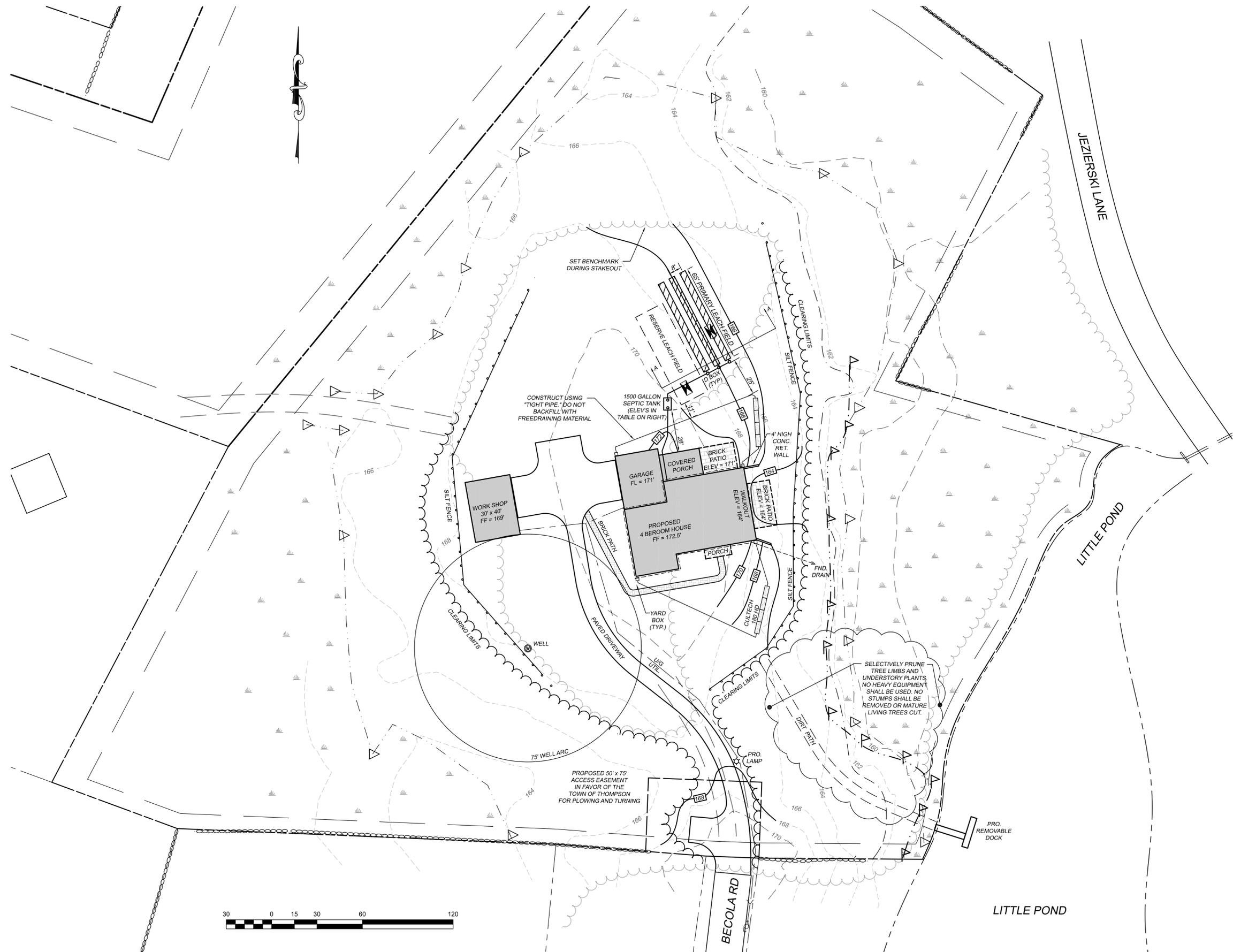
J&D CIVIL ENGINEERS
401 RAVENELLE ROAD
N. GROSVENORDALE, CT 06255
860-923-2920

DESIGNED: DDB
DRAWN: APS

REVISIONS:
2021-04-07 NEW WETLANDS
DELINEATION & EASEMENT

JOB NO: 20219
SCALE: 1" = 50'

DATE: FEBRUARY 8, 2021
SHEET: 2 OF 4



SURVEY NOTES:

1. THIS MAP HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARD FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.

THE SURVEY TYPE IS TOPOGRAPHIC, PERFORMED ON NOV. 2005, AND IS INTENDED TO BE USED FOR THE DESIGN OF AN ENGINEERED SEPTIC SYSTEM.

PROPERTY LINES DO NOT EXPRESS A BOUNDARY OPINION.

2. TEST PIT AND PERC TEST LOCATIONS HAVE BEEN COMPILED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. THIS INFORMATION IS TO BE CONSIDERED APPROXIMATE AND J & D CIVIL ENGINEERS DOES NOT TAKE RESPONSIBILITY FOR SUBSEQUENT ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THIS PLAN AS A RESULT.

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DENNIS R. BLANCHETTE DATE 12/07 LICENSE NUMBER

SEPTIC ELEVATIONS

INVERT AT HOUSE	169.50'
INVERT INTO TANK	168.50'
INVERT OUT OF TANK	168.25'
INVERT INTO D-BOX	167.60'
HIGH LEVEL OVERFLOW	167.85'
INVERT INTO D-BOX	166.80'
HIGH LEVEL OVERFLOW	167.05'
INVERT INTO D-BOX	166.00'

LEGEND

	BUILDING SETBACK LINE
	PROPERTY LINE
	EXISTING CONTOUR LINE
	PROPOSED CONTOUR LINE
	EDGE OF WETLANDS
	EDGE OF WATERBODY
	EROSION CONTROL DEVICES
	LEACHING TRENCH
	STONEWALL
	UTILITIES
	TREELINE
	FLOOD ZONE A
	TEST PIT



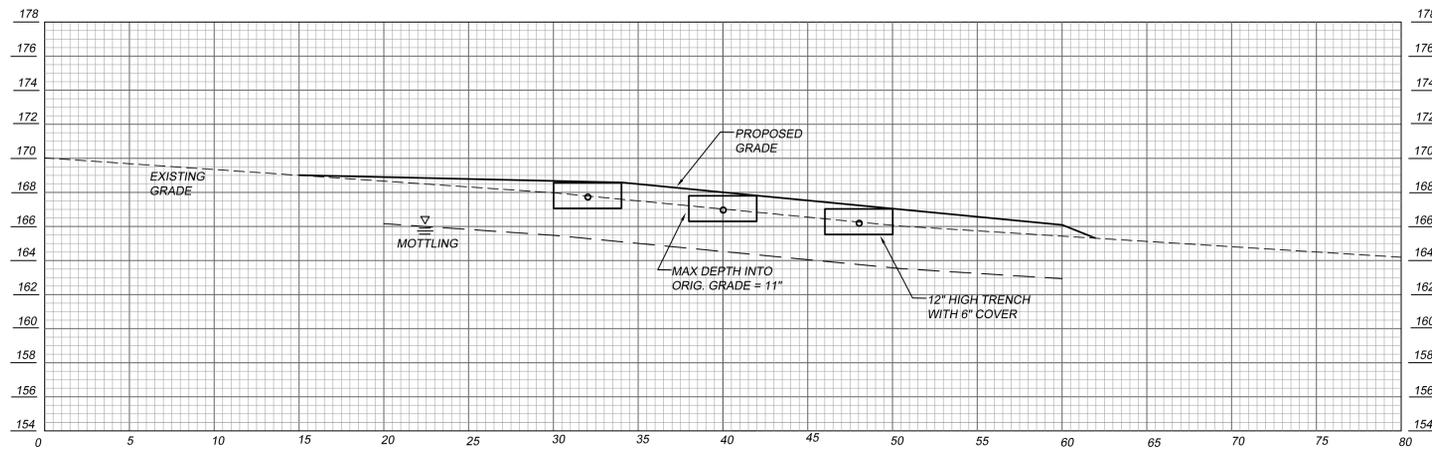
SITE DEVELOPMENT PLAN
 PREPARED FOR
KEITH & KAROLYN CHAMPAGNE
 1321 THOMPSON ROAD, THOMPSON, CT
 MAP 114, BLOCK 24, LOT 54

J&D CIVIL ENGINEERS
 401 RAVENELLE ROAD
 N. GROSVENORDALE, CT 06255
 860-923-2920

DESIGNED: DDB DRAWN: APS	REVISIONS: 2021-04-07 WETLANDS COMMENTS
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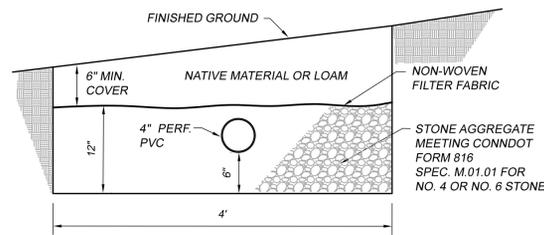
JOB NO: 20219	DATE: FEBRUARY 8, 2021
SCALE: 1" = 30'	SHEET: 3 OF 4

TOWN OF THOMPSON RECEIVED FOR RECORDING	APPROVED PLANNING AND ZONING COMMISSION	APPROVED INLAND WETLANDS COMMISSION
TOWN CLERK	CHAIRMAN	CHAIRMAN
DATE	DATE	DATE
TIME		
MAP #		

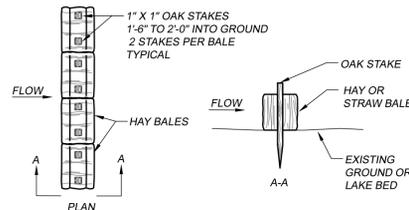


LEACHING FIELD CROSS SECTION A-A

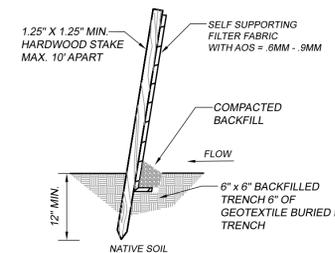
1" = 5'



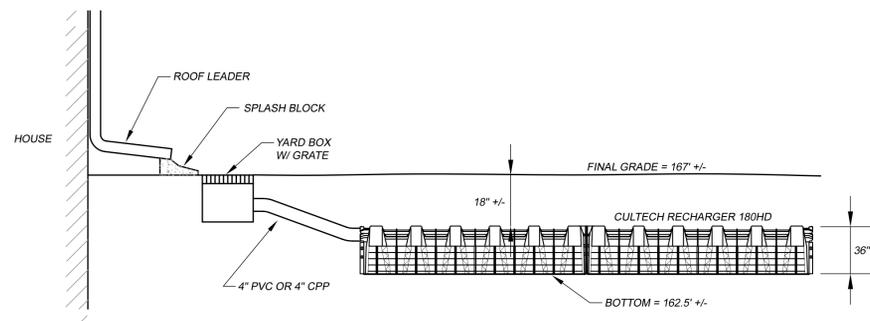
LEACHING TRENCH DETAIL
N.T.S.



HAYBALE EROSION CONTROL
NOT TO SCALE



SILT FENCE INSTALLATION
NOT TO SCALE



ROOF DRAIN INFILTRATION DETAIL
NOT TO SCALE

TEST PIT RESULTS

OBSERVED BY: MAUREEN MARCOUX
DATE: 10-12-04

PIT NO. 1	PIT NO. 2
0-10" TOPSOIL	0-10" TOPSOIL
10-30" SANDY LOAM	10-29" SANDY LOAM
30-75" COMPACT LOAMY FINE SAND	29"-91" COMPACT LOAMY FINE SAND
MOTTLING: 30"	MOTTLING: 29"
RESTRICTIVE LAYER: 30"	RESTRICTIVE LAYER: 29"
LEDGE:	LEDGE:
WATER:	WATER: 78"

PERC. TEST RESULTS

TIME	READING
12:05	5.75"
12:10	8.75"
12:20	11.75"
12:30	13.25"
12:40	14.75"

HOLE DEPTH = 20"
PERC. RATE = 6.6 MINS/IN

SEPTIC SYSTEM DESIGN CRITERIA

PERC RATE: 6.6 MINS/INCH
NUMBER OF BEDROOMS: 4
SEPTIC TANK: 1500 GALLON
LEACHING AREA REQUIRED: 578 SQUARE FEET
LEACHING AREA PROVIDED: (3) 65' LONG, 4' WIDE TRENCHES = 585 SF
MOTTLING: 29" - 30", LEDGE: N/A, WATER: N/A, SLOPE: 4 - 6%
MLSS (PRIMARY) = 49' (HF=28, PF=1.0, FF=1.75)
LSS PROVIDED = 65'

SPECIFICATIONS

SEPTIC SYSTEM INSTALLATION SHALL BE IN ACCORDANCE WITH THE "CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS".

SEPTIC TANK: JOLLEY PRECAST, INC. OR EQUAL TWO-COMPARTMENT TANK WITH OUTLET FILTER. INSTALL RISERS OVER TANK CLEANOUTS IF COVER OVER TANK EXCEEDS 1'.

DISTRIBUTION BOXES: JOLLEY OR EQUAL 4 HOLE D-BOXES

HOUSE AND EFFLUENT SEWER PIPE: 4" PVC ASTM D 1785, ASTM D 2665, OR ASTM F 1760 SCHEDULE 40 WITH RUBBER COMPRESSION GASKETS OR PVC AWWA C-900 WITH RUBBER COMPRESSION GASKETS.

DISTRIBUTION PIPE: 4" PVC PERFORATED, LAID AT 2" PER 100'

POLYLOK PIPE SEAL AS MANUFACTURED BY SUPERIOR SEPTIC TANKS (OR EQUAL) SHALL BE USED TO SEAL SEPTIC TANK AND D-BOX INLETS AND OUTLETS.

BOTTOM OF TRENCHES TO BE LEVEL.

ALL FILL SHALL BE CLEAN BANK RUN GRAVEL, MEETING THE FOLLOWING REQUIREMENTS OF THE CT DEPT. OF PUBLIC HEALTH.:
MAX. PERCENT GRAVEL (PLUS NO. 4 SIEVE MATERIAL) - 45%
GRADATION ON FILL LESS GRAVEL:

SIEVE	DRY PERCENT PASSING	WET PERCENT PASSING
NO. 4	100	100
NO. 10	70-100	70-100
NO. 40	10-75	10-50*
NO. 100	0-5	0-20
NO. 200	0-2.5	0-5

* PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%

FILL MUST PERC AT A RATE EQUAL TO OR FASTER THAN THE UNDERLYING SOIL.

THE HOUSE, WELL, AND SEPTIC SYSTEM LOCATIONS SHALL BE STAKED IN THE FIELD BY A LAND SURVEYOR PRIOR TO THE START OF ANY CONSTRUCTION. THE SURVEYOR SHALL INSTALL A STABLE BENCHMARK DURING STAKEOUT WITHIN 15' OF THE SYSTEM.

EROSION AND SEDIMENT CONTROL NOTES:

1. THE PROPOSED ACTIVITY ON THE SITE WILL CONSIST OF THE CONSTRUCTION OF A SINGLE FAMILY HOUSE, WELL, SEPTIC SYSTEM AND DRIVEWAY.
2. EROSION CONTROL DEVICES MUST BE INSTALLED WHERE INDICATED ON THIS SHEET PRIOR TO THE START OF CONSTRUCTION.
3. DISTURBED AREAS SHALL BE KEPT TO A MINIMUM AND SEEDED OR STABILIZED WITH TEMPORARY MULCH AS SOON AS FINAL GRADES HAVE BEEN ATTAINED.
4. THE OWNER OF RECORD SHALL DESIGNATE THE ON SITE ENVIRONMENTAL AGENT RESPONSIBLE FOR REGULARLY CHECKING THE CONDITION OF THE EROSION CONTROL DEVICES AND REMOVING ACCUMULATED SEDIMENT.

NOTES & DETAILS

PREPARED FOR
KAROLYN & KEITH CHAMPAGNE
1321 THOMPSON ROAD, THOMPSON, CT
MAP 114, BLOCK 24, LOT 54

J&D CIVIL ENGINEERS
401 RAVENELLE ROAD
N. GROSVENORDALE, CT 06255
860-923-2920

DESIGNED: DDB
DRAWN: DDB

REVISIONS:
2021-04-07 WETLANDS COMMENTS

JOB NO: 20219
SCALE: AS NOTED

DATE: FEBRUARY 8, 2021
SHEET: 4 OF 4

TOWN OF THOMPSON
RECEIVED FOR RECORDING

APPROVED
PLANNING AND ZONING COMMISSION

APPROVED
INLAND WETLANDS COMMISSION

TOWN CLERK DATE TIME MAP#

CHAIRMAN DATE

CHAIRMAN DATE

WASHBURN WETLAND CONSULTING LLC

19 Wolf Den Road • Pomfret Center, Connecticut 06259-2022

Telephone (860) 428-8424 • washburnwetland@gmail.com

Daniel Blanchette
J & D Civil Engineers
401 Ravenelle Road
North Grosvenordale, CT 06255

March 28, 2021

Dear Daniel,

Today, at your request, I conducted a site investigation at Map 114, Block 24, Lot 54 on Becola Road in Thompson, CT. The purpose of the site investigation was to delineate a portion of the wetlands on the subject property. The site investigation was limited to the area you indicated.

The subject property is located on an area of nearly level to steeply sloping soils formed in glacial outwash. References used in the soil identification process included *Soil Survey of Windham County Connecticut* (USDA Soil Conservation Service, December 1981), the U.S.G.S. topographic map for the subject property, the Site Development Plan prepared for Keith & Karolyn Champagne, dated 2/8/21, and GIS maps. The wetlands were delineated using consecutively numbered lengths of blue surveyors' ribbon. There is one series of wetland flags (WF), numbered WF1– WF12. Please refer to the attached site sketch for further details.

The wetlands in the area of the delineation on the subject property consist of a wooded shrub swamp bordering on Little Pond.

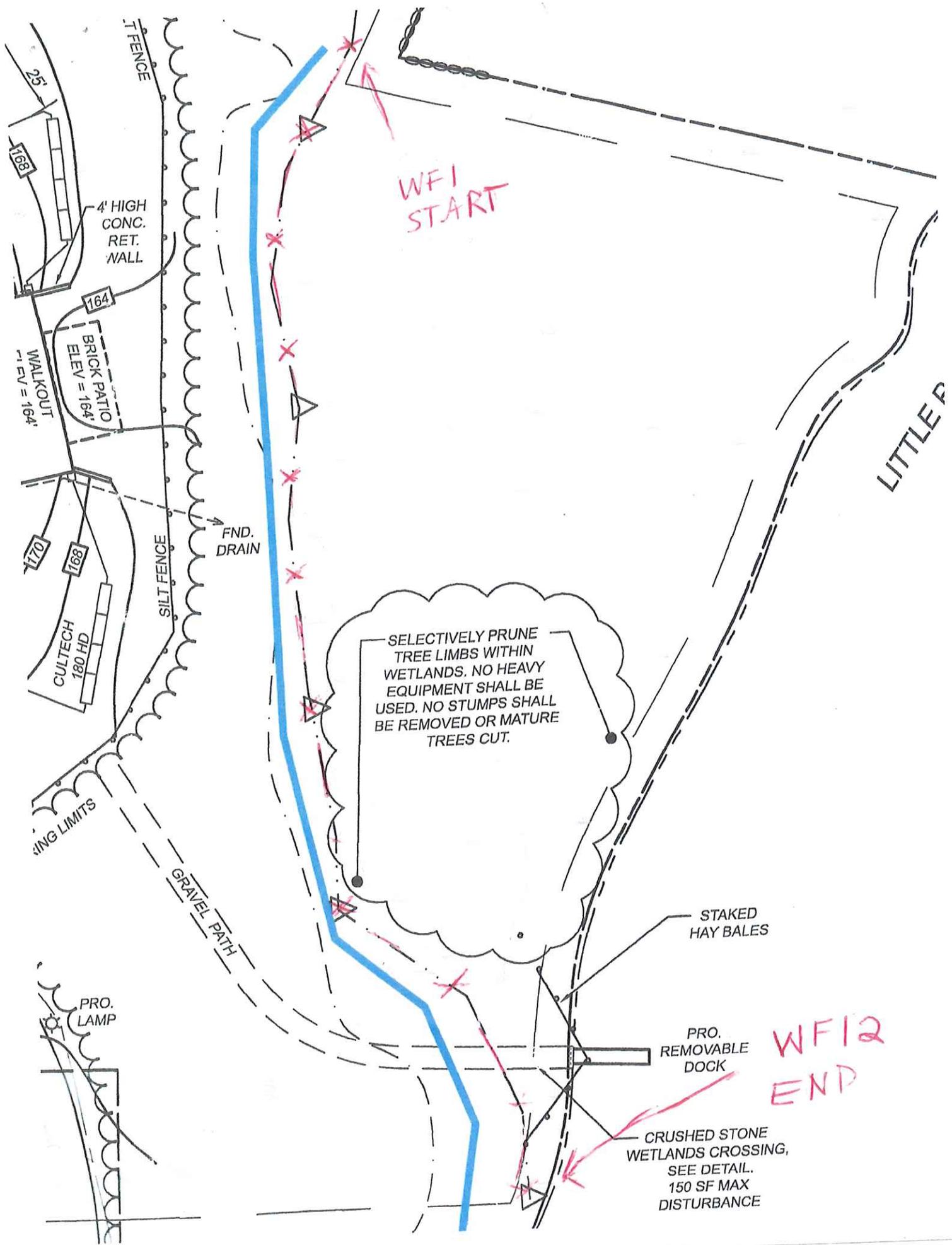
According to Map 4 of the *Soil Survey*, in the area of the wetlands delineation, the upland soils consist of Hinckley gravelly sandy loam, while the wetlands soils consist of Carlisle muck. The site investigation confirmed the mapping in the *Soil Survey*.

It has been a pleasure working for you on this site. Please feel free to call me if I may be of further assistance.

Sincerely,



Margaret Washburn, M.S.
Registered Professional Soil Scientist



WF1
START

LITTLE P

SELECTIVELY PRUNE
TREE LIMBS WITHIN
WETLANDS. NO HEAVY
EQUIPMENT SHALL BE
USED. NO STUMPS SHALL
BE REMOVED OR MATURE
TREES CUT.

STAKED
HAY BALES

WF12
END

PRO.
REMOVABLE
DOCK

CRUSHED STONE
WETLANDS CROSSING,
SEE DETAIL.
150 SF MAX
DISTURBANCE

T FENCE

4' HIGH
CONC.
RET.
WALL

BRICK PATIO
ELEV = 164'

WALKOUT
ELEV = 164'

FND.
DRAIN

SILT FENCE

CULTECH
180 HD

PLANTING LIMITS

GRAVEL PATH

PRO.
LAMP



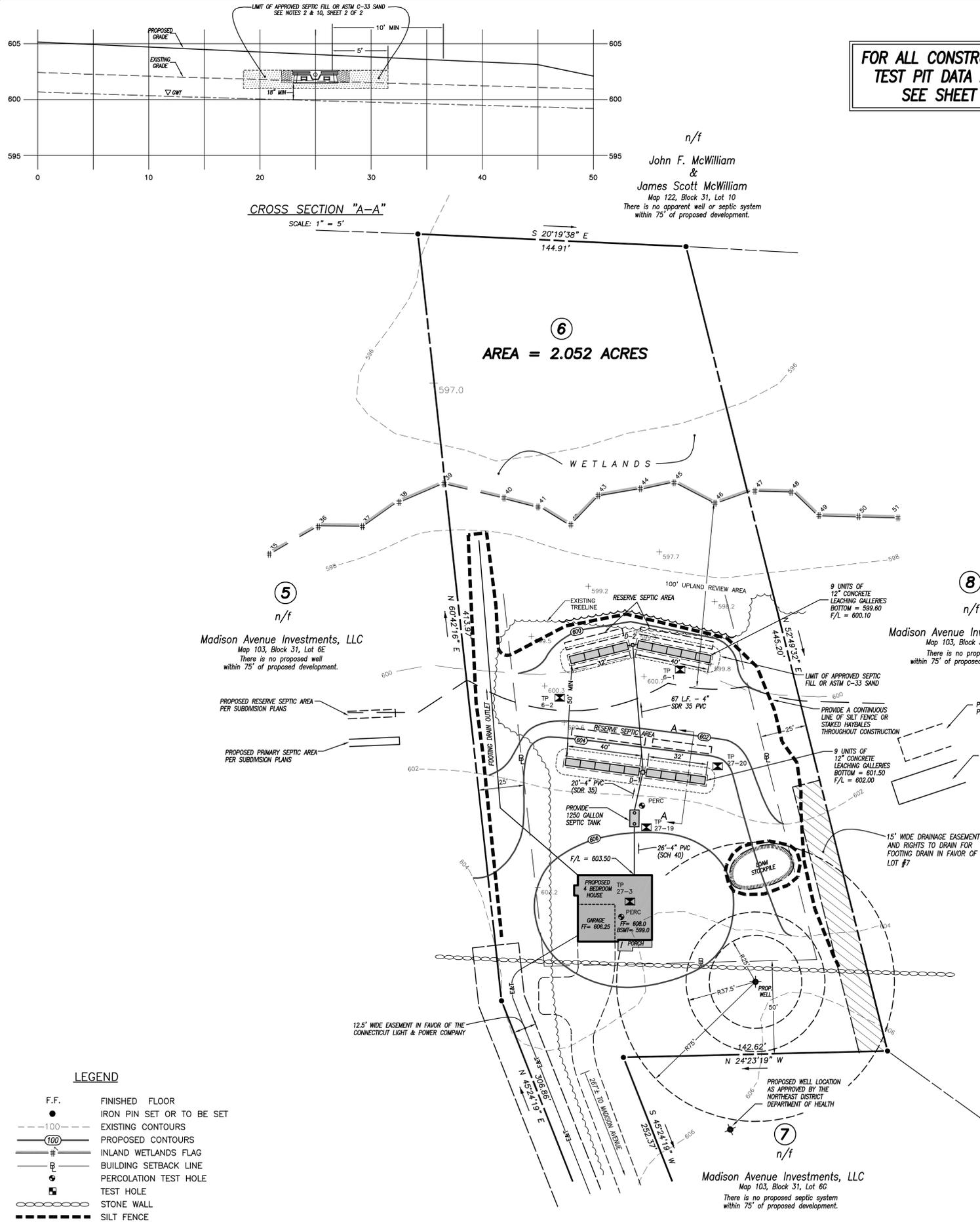
Charlie Obert



Charlie Obert

Agenda Item E.b) 1. New Applications

WAA21007, Madison Avenue Investments, LLC, 0 Madison Ave. (Assessor's map 103, block 31, lot 6F, subdivision lot 6), septic system and footing drain in upland review area for new single-family home stamped received 3/24/2021, issued 3/25/21, legal notice to be published 4/16/21, appeal period ends 4/30/21 (replaces WAA20030).



**FOR ALL CONSTRUCTION NOTES,
TEST PIT DATA AND DETAILS
SEE SHEET 2 OF 2.**

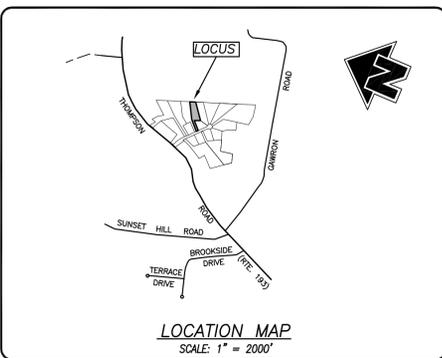
SEPTIC SYSTEM DESIGN DATA

Percolation Rate	= 14.2 min. / in.
4 bedroom house requires	= 787.5 s.f. effective leaching area
Effective Leaching area	= 5.9 s.f. / l.f. 12" concrete concrete galleries
Length Required	= 787.5/5.9 = 133.5 l.f.
Length Provided	= 18 Units @ 8 l.f. ea. = 144 l.f.
Min. Leaching System Spread (MLSS)	= 54 x 1.75 x 1.25 = 118.13'
MLSS Provided	= 144'

LEACHING FIELD

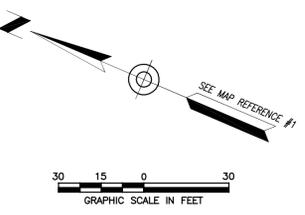
18 Units of 12" concrete leaching galleries @ 8 l.f. each = 144' (piggy back installation)

Maximum depth into existing grade = 3"



NOTE: SEPTIC SYSTEMS AND WELLS SHALL BE LOCATED A MINIMUM OF 37.5' FROM PROPERTY LINES PER ARTICLE IV, SECTION 2.R OF THE THOMPSON SUBDIVISION REGULATIONS

- NOTES:**
- This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Sections 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; This map was prepared from record research, other maps, limited field measurements and other sources, it is not to be construed as a Property/Boundary or Limited Property/Boundary Survey and is subject to such facts as said surveys may disclose.
 - This survey conforms to a Class "C" horizontal accuracy.
 - Topographic features conform to a Class "T-2", "V-2" vertical accuracy.
 - Survey Type: General Location Survey.
 - Zone = R-40.
 - Owner of record: Madison Avenue Investments, LLC
89 Wauregan Road
Brooklyn, CT 06234
 - Parcel is shown as Lot #6F, Block #31 on Assessors Map #103.
 - Elevations shown are based on National Geodetic Vertical Datum of 1929 (NGVD 29). Contours shown are taken from map reference. Contour interval = 2'.
 - Test pit data taken from map reference and the Northeast District Department of Health file number: 02001818.
 - Wetlands shown were taken from map reference.
 - Before any construction is to commence contact "CALL BEFORE YOU DIG" at 1-800-922-4455 or 811.



SURVEYOR SHALL SET A BENCH MARK IN THE AREA OF THE SEPTIC SYSTEM AT THE TIME OF CONSTRUCTION STAKE-OUT.

SEPTIC TANK	
1250 GALLON	
TWO COMPARTMENT	
F/L IN = 602.75	
F/L OUT = 602.50	
DISTRIBUTION BOXES	
D-1 (OVERFLOW)	
F/L IN = 602.17	
F/L OUT = 602.00	
OVERFLOW = 602.25	
D-2 (STANDARD)	
F/L IN = 600.27	
F/L OUT = 600.10	

LEGEND

F.F.	FINISHED FLOOR
●	IRON PIN SET OR TO BE SET
---100---	EXISTING CONTOURS
---100---	PROPOSED CONTOURS
---#---	INLAND WETLANDS FLAG
---#---	BUILDING SETBACK LINE
○	PERCOLATION TEST HOLE
□	TEST HOLE
○	STONE WALL
---	SILT FENCE

K:\15048\Drawings\SSD\Lot 6\15048 SSD Lot 6.dwg Feb 19, 2021 9:15 AM

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON,

GREG A. GLAUDE, L.S. LIC. NO. 70191 DATE

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

NORMAND THIBEAULT, JR., P.E. No. 22834 DATE

DATE	REVISIONS
2/19/2021	REVISED TO 4 BEDROOM DESIGN

**GENERAL LOCATION SURVEY
SEPTIC SYSTEM DESIGN PLAN - LOT 6
PREPARED FOR
MADISON AVENUE
INVESTMENTS, LLC
MADISON AVENUE
THOMPSON, CONNECTICUT**

Killingly Engineering Associates
Civil Engineering & Surveying
114 Westcott Road
P.O. Box 421
Killingly, Connecticut 06241
(860) 779-7299
www.killinglyengineering.com

DATE: 3/19/2020	DRAWN: AMR
SCALE: 1" = 30'	DESIGN: NET
SHEET: 1 OF 2	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 15048

Agenda Item E.b) 2. New Applications

WAA21008, Jason Lavallee, 0 East Thompson Rd (aka 597 East Thompson Rd, Assessor's map154, block 5, lot 10), construct underground utility in upland review area for a new single family home, stamped received 4/1/21, under review pending receipt of NDDB review.

For Wetland Agent:	rev 01/11
APPLICATION #WAA-21008	
DATE RECEIVED April 1, 2021	

Application
for
Wetland Agent Approval
to conduct a regulated activity

Town of Thompson
INLAND WETLANDS COMMISSION
815 RIVERSIDE DRIVE
NORTH GROSVENORDALE, CT 06255

Instructions:

Two (2) copies of the completed application and two (2) copies of all the additional attached documents (site plan, etc.) must be submitted to the Agent.

The applicant is advised to read Sections 7 and 8 of the Regulations for further information regarding application requirements and procedures. THE APPLICANT IS FURTHER ADVISED THAT A BUFFER (SETBACK) OF 100 FEET FROM AN INLAND WETLAND OR WATERCOURSE IS REQUIRED, AND A BUFFER/SETBACK OF 200 FEET FROM THE TEN (10) ESPECIALLY NOTEWORTHY WETLANDS AND WATERCOURSES IDENTIFIED IN THE TOWN OF THOMPSON INLAND WETLAND INVENTORY PREPARED BY NORTHEASTERN CONNECTICUT REGIONAL PLANNING AGENCY 1980 PAGES 9, 14 AND 15 IS REQUIRED. See Section 6 of the Regulations for further information regarding regulated activities.

Please provide the following information:

- Directions to the property from the Thompson Town Hall
- Location of Utility Pole nearest your property
 - *Pole Number
 - *Location of property in reference to Pole

NO APPROVAL SHALL BE TRANSFERRED WITHOUT PERMISSION OF THE AGENCY.

FEE SCHEDULE:

(Additional \$60.00 fee to State as per Public Act 09-03, Section 396)

- Individual Lot \$50 + \$60
(Includes Mandatory Legal Advertisements Fee of \$20)

If the Agent finds that greater than a minimal impact may occur to wetlands, then this proposal must undergo a full permit application. Fee will be applied to the permit application.

Please complete the following application information.
If you need assistance contact the Wetland Agent (office 860- 923-1852)
Fax 860-923-9897
www.thompsonct.org/wetlands

Received

APR 01 2021

Date 4-1-21

1) Name of Applicant Jason Lavallee
Home Address 83 Rich rd. N. Gros CT 06255
Home Tele & Hrs 508-728-6628 Business Tele & Hrs _____
Business Address _____

2) Applicant's interest in the Property: _____ Owner Other
INLAND WETLANDS APPROVALS CAN BE GRANTED TO PROPERTY OWNER ONLY.

3) Name of Property Owner (if not applicant) River Junction Est
Home Address 204 munyan rd Putnam, CT
Business Address _____
Home Tele & Hrs 860-919-6413 Business Tele & Hrs _____

4) Geographical Location of the Property (site plan to include utility pole number nearest property or other identifying landmarks)
Pole # and Location Snet # 354 East Thompson rd
Street or Road Location 597 East Thompson rd
Tax Assessor's Map # 154
Block # 5
Lot # that appears on site plan 10
Deed Information : Volume # 0481
Page # 0084

5) The property to be affected by the proposed activity contains:
Soil Types _____
Wetland Soils _____ (Swamp _____ Marsh _____ Bog _____ Vernal Pool _____)
Watercourses _____ (Lake or Pond _____ Stream or River _____ Intermittent Stream _____)
Floodplain - Yes / No

6) Description of the Activity for which Approval is requested Excavate & Backfill utility Trench
from edge of East Thompson rd to New house location. Work within
30' of wetland, no wetland disturbance, Install silt fence to protect
five mile river, Existing driveway & water crossing previously installed
2002.
Extension of Existing driveway to proposed New house site.
is outside of Regulated area

7) Submit a Site Plan, drawn to scale, with the certification of the preparing Surveyor and/or Engineer including:

- 1-Locus map at approx. 1" = 1000'
- 2-Location of property, with boundaries defined and utility pole # near property and any other identifying landmarks.
- 3-Location of wetlands and /or watercourses. A wetland delineation in the field must be marked with numbered wetlands flags by a certified soil scientist and located on the map/site plan. Site plan shall bear the soil scientist's original signature.
- 4-Soil types on the property.
- 5-Flood Hazard area classification and delineation.
- 6-(a)Location of the proposed activity (i.e. house, septic, well or other areas to be disturbed).
(b)Location of perc tests and soil test holes.
(c)Copy of NDDH approval to construct or repair subsurface sewage disposal system.
- 7-Nature and volume of the material to be placed, removed, or transferred.
- 8-Topographical contours, proposed and existing.
- 9-Location and supporting data for proposed drainage.
- 10-Date, scale (recommend 1"=40') and North arrow.
- 11-Proposed limits of clearing/disturbance and location of stockpiles during construction.
- 12-Location of proposed Erosion and Sedimentation controls and other management practices and mitigation measures which may be considered as a condition of issuing a permit for the proposed regulated activity. The erosion and sedimentation control provisions on the site plan must comply with the most current CT DEP edition of the *Connecticut Guidelines for Soil Erosion and Sedimentation Control* and be so noted on the plans.
- 13 -Location of proposed Stormwater treatment design on the site plan must comply with the most current CT DEP edition of the *Connecticut Stormwater Quality Manual* and be so noted on the plans. It is strongly recommended that low impact development techniques, stormwater management techniques that are designed to approximate the pre-development site hydrology, be utilized in the stormwater system design wherever practical and possible.
- 14-Location of proposed mitigation or wetland enhancement measures which may be considered as a condition of issuing a permit for the proposed regulated activity.
- 15-Timing and description of phases of activities, installation of sediment and stormwater control measures and temporary and permanent stabilization methods.

The Wetland Agent will notify you if any additional information is needed in order to properly evaluate your proposal.

8) Is any portion of this property located within the watershed of a water company as defined in section 16-1 of the Connecticut General Statutes? no If yes, the Applicant is required to provide written notice of the application by certified mail, return receipt requested, to the water company on the same day of filing this permit application with the Thompson Inland Wetlands and Watercourses Commission. Documentation of such notice shall be provided to the Commission.

9) Does any portion of this property contain a Natural Diversity Data Base (NDDDB) area of concern as defined on the map of Federal and State Listed Species and Significant Natural Communities, for Thompson, Connecticut, prepared by the Connecticut Department of Environmental Protection? _____ If yes, the Applicant must contact the CT DEP for information regarding the State or Federal Listed Species of Concern.

10) Names and Addresses of Abutters:

michael Robbins 591 East Thompson rd. Thompson CT
chris Farard 601 East Thompson rd Thompson CT
michelle Seale 565 East Thompson rd. Thompson CT
maria & mark Savolis 551 East Thompson rd Thompson, CT

11) Estimated start date 4-5-21

Estimated date of completion (all disturbed areas are stabilized) 4-30-21

12) The undersigned hereby consents to necessary and proper inspections of the above mentioned property by the Agents of the Town of Thompson Inland Wetlands Commission, at reasonable times, both before and after the approval in question has been granted by the Agent, including site walks by Commission members and staff for the purpose of understanding existing site conditions, which may be necessary in order to render a decision on this application.

The undersigned swears that the information supplied in this completed application is accurate to the best of her/his knowledge and belief.

ABSOLUTELY NO WORK IS TO BEGIN UNTIL ALL NECESSARY APPROVALS ARE OBTAINED.

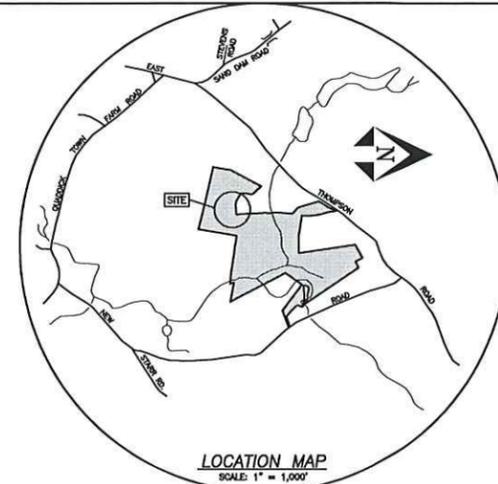
Upon Approval the Applicant is responsible for publishing a notice of the approval, at the applicant's expense, in a newspaper having a general circulation in the Town of Thompson. The Agent will provide the necessary notice to the newspaper for public notice, and such notice must be published within ten (10) days of the date of approval.

Received
APR 01 2021
Thompson Wetlands Office

[Signature] 4/1/21
Signature of Applicant Date

[Signature] 4/1/21
Consent of Landowner if other than applicant Date

Please attach a written consent by the owner if applicant is not the property owner.



- SURVEY NOTES:**
- This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Section 20-300b-1 through 20-300b-20 as amended on October 26, 2018;
This map was prepared from record research, other maps, limited field measurements and other sources. It is not to be construed as a Property/Boundary or Limited Property/Boundary Survey and is subject to such facts as said surveys may disclose.
- This survey conforms to a Class "C" horizontal accuracy.
- Topographic features conform to a Class "T-2 and T-3" accuracy.
- Survey Type: General Location Survey.
 - The subject parcel is shown as lot #10, block #5 on assessor's map #154.
 - Zone: RRAD.
 - Owner of record: River Junction Estates, LLC
204 Muryan Road
Putnam, CT 06260
 - The intent of this survey is to show the residential development of the subject lot.
 - Elevations based on NAVD 1988. Contour interval = 2'.
 - The locations of existing utilities are based on surface evidence and other sources of information. Before any construction is to commence contact "CALL BEFORE YOU DIG" at 1-800-922-4455.
 - If the proposed house will have any large tubs (over 100 gallons), the septic tank size shall be increased per the Public Health Code.
 - Wetlands shown with flag numbers were delineated by Joseph Theroux in November, 2020. Wetlands on the northerly side of the Five Mile River are taken from Map Reference 1 below.

- MAP REFERENCES:**
- "Lot Division Plan - River View Landing - Prepared for - River Junction Estates, LLC - Lots A-1 & A-2 - New Road & East Thompson Road - Thompson, Connecticut - Scale: 1" = 100' - Dated: 01/08 - Sheet 1 of 4 - Mewssier & Associates, Inc."
 - "Boundary Reconfiguration Plan - River View Landing - Prepared for - River Junction Estates, LLC - Lots SC-1 & SC-2 - New Road - Thompson, Connecticut - Scale: 1" = 100' - Dated: 11/17 - Messier Survey LLC"

GENERAL LOCATION SURVEY
PROPOSED SITE PLAN
PREPARED FOR
RIVER JUNCTION ESTATES, LLC & JOHN CAMELIO
EAST THOMPSON ROAD
THOMPSON, CONNECTICUT

Provost & Rovero, Inc.
Civil Engineering • Surveying • Site Planning
Structural • Mechanical • Architectural Engineering
57 East Main Street, P.O. Box 191
Plainfield, Connecticut 06374
(860) 230-0856 - FAX: (860) 230-0860
info@provostinc.com
www.provostinc.com



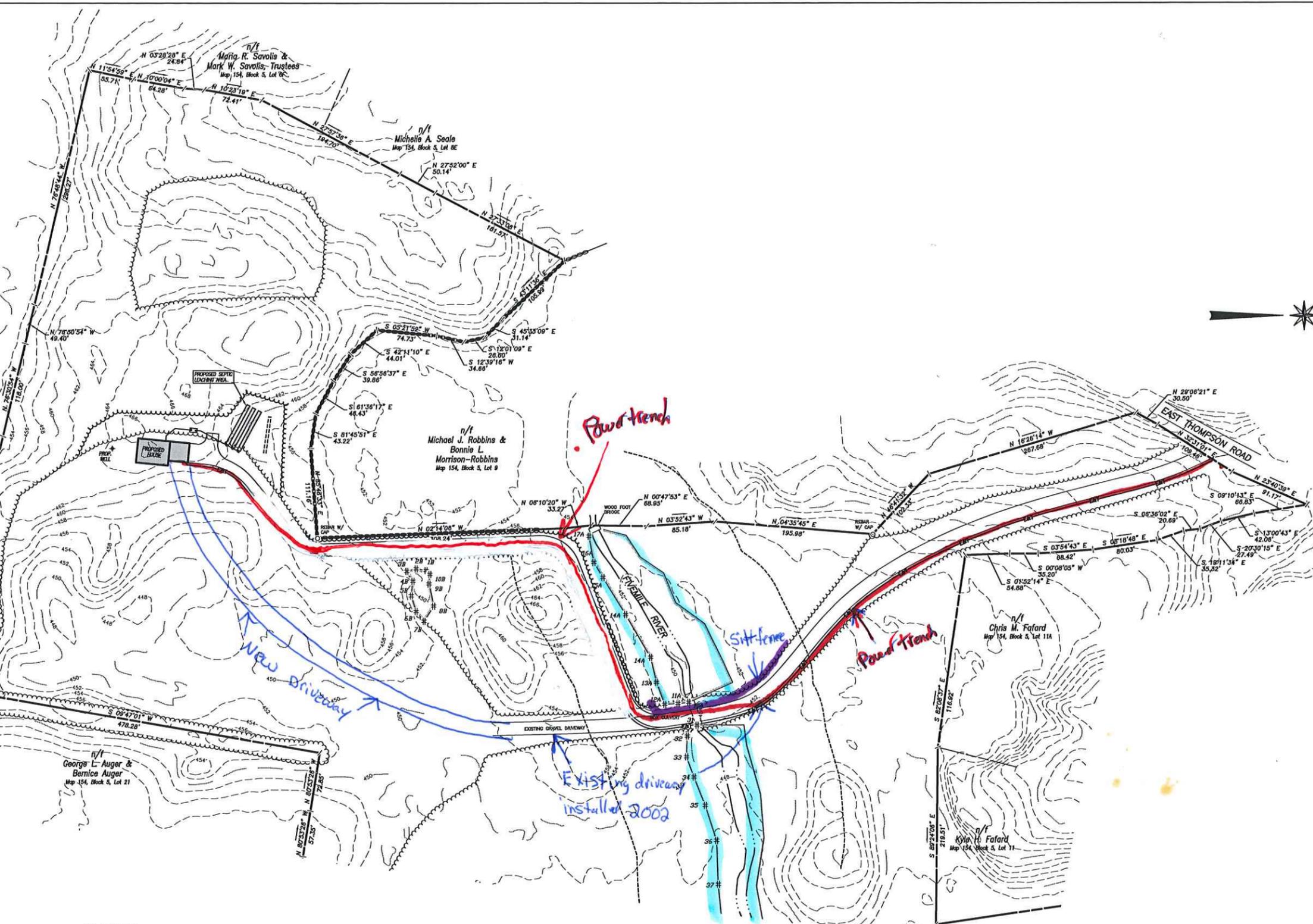
REVISIONS	
DATE	DESCRIPTION

DATE: 12/22/2020 DRAWN: DJH
SCALE: 1" = 60' DESIGN: DJH
SHEET: 1 OF 1 CHK BY: ---
DWG. No: Client File JOB No: 203094

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON,
DAVD J. HELD, L.S. LIC. NO. 24267 DATE
NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

ENGINEER _____ DATE _____

Received
APR 01 2021
Thompson Wetlands Office



LEGEND

- IRON PIN OR PIPE FOUND
- ⊠ INLAND WETLAND FLAG
- ⊞ TEST PIT
- ⊙ PERCOLATION TEST
- ⊞ STONE WALL
- EXISTING INDEX CONTOUR
- EXISTING CONTOUR
- EXISTING TREE LINE
- EXISTING U.G. UTILITIES
- PROPOSED CONTOUR
- PROPOSED SILT FENCE
- PROPOSED CLEARING LIMITS

C:\Users\Dave\Desktop\Map\10057\202009\10057.dwg 12/22/2020 10:08:44 AM DWG: 10057.dwg File: 11, 2021 - 8:18 AM

App# WAA21008

Agenda Item E.b) 3. New Applications

WAA21009, Neil P LLC, 520 Riverside Drive (Assessor's map 85, block 95, lot 10A), construction of a 132' X 54' new commercial building, stamped by the Town Clerk 3/31/20, under review.

RECEIVED
TOWN OF THOMPSON, CT.

2021 MAR 31 P 1:44

Linda Paradise
TOWN CLERK, ASSR

For Wetland Agent: rev 01/11
APPLICATION #WAA 21009
DATE RECEIVED March 31, 2021

Application
for

Wetland Agent Approval
to conduct a regulated activity

Town of Thompson

INLAND WETLANDS COMMISSION
815 RIVERSIDE DRIVE
NORTH GROSVENORDALE, CT 06255

Instructions:

Two (2) copies of the completed application and two (2) copies of all the additional attached documents (site plan, etc.) must be submitted to the Agent.

The applicant is advised to read Sections 7 and 8 of the Regulations for further information regarding application requirements and procedures. THE APPLICANT IS FURTHER ADVISED THAT A BUFFER (SETBACK) OF 100 FEET FROM AN INLAND WETLAND OR WATERCOURSE IS REQUIRED, AND A BUFFER/SETBACK OF 200 FEET FROM THE TEN (10) ESPECIALLY NOTEWORTHY WETLANDS AND WATERCOURSES IDENTIFIED IN THE TOWN OF THOMPSON INLAND WETLAND INVENTORY PREPARED BY NORTHEASTERN CONNECTICUT REGIONAL PLANNING AGENCY 1980 PAGES 9, 14 AND 15 IS REQUIRED. See Section 6 of the Regulations for further information regarding regulated activities.

Please provide the following information:

- Directions to the property from the Thompson Town Hall
- Location of Utility Pole nearest your property
 - *Pole Number *Location of property in reference to Pole

NO APPROVAL SHALL BE TRANSFERRED WITHOUT PERMISSION OF THE AGENCY.

FEE SCHEDULE:

(Additional \$60.00 fee to State as per Public Act 09-03, Section 396)

- Individual Lot \$50 + \$60
(Includes Mandatory Legal Advertisements Fee of \$20)

If the Agent finds that greater than a minimal impact may occur to wetlands, then this proposal must undergo a full permit application. Fee will be applied to the permit application.

Please complete the following application information.
If you need assistance contact the Wetland Agent (office 860- 923-1852)
Fax 860-923-9897
www.thompsonct.org/wetlands

Date 3/31/21

1) Name of Applicant NEIL P LLC

Home Address _____

CELL
Home Tele & Hrs 978-430-7290 Business Tele & Hrs _____

Business Address 520 RIVERSIDE DR, NO. GROS, CT 06255

2) Applicant's interest in the Property: Owner Other
INLAND WETLANDS APPROVALS CAN BE GRANTED TO PROPERTY OWNER ONLY.

3) Name of Property Owner (if not applicant) _____

Home Address _____

Business Address _____

Home Tele & Hrs _____ Business Tele & Hrs _____

4) Geographical Location of the Property (site plan to include utility pole number nearest property or other identifying landmarks)

Pole # and Location CL&P 199
Street or Road Location 520 RIVERSIDE DRIVE

Tax Assessor's Map # 85
Block # 95
Lot # that appears on site plan 10 A

Deed Information : Volume # 911
Page # 264

5) The property to be affected by the proposed activity contains:

Soil Types HICKLEY, RIPPONAN, UDORTMENTS

Wetland Soils (Swamp Marsh Bog Vernal Pool)

Watercourses (Lake or Pond Stream or River Intermittent Stream)

Floodplain - Yes / No FRENCH RIVER

6) Description of the Activity for which Approval is requested CONSTRUCTION OF AN
ADDITIONAL COMMERCIAL BLDG (8230 SF) AND 33
PARKING SPACES. NO WORK IN WETLANDS

7) Submit a Site Plan, drawn to scale, with the certification of the preparing Surveyor and/or Engineer including:

- 1-Locus map at approx. 1" = 1000' (1" = 500')
- 2-Location of property, with boundaries defined and utility pole # near property and any other identifying landmarks.
- 3-Location of wetlands and /or watercourses. A wetland delineation in the field must be marked with numbered wetlands flags by a certified soil scientist and located on the map/site plan. Site plan shall bear the soil scientist's original signature. **SOIL SCIENTIST LETTER ATTACHED**
- 4-Soil types on the property.
- 5-Flood Hazard area classification and delineation.
- 6-(a)Location of the proposed activity (i.e. house, septic, well or other areas to be disturbed).
(b)Location of perc tests and soil test holes. **N/A**
(c)Copy of NDDH approval to construct or repair subsurface sewage disposal system. **N/A**
- 7-Nature and volume of the material to be placed, removed, or transferred. **N/A**
- 8-Topographical contours, proposed and existing.
- 9-Location and supporting data for proposed drainage.
- 10-Date, scale (recommend 1"=40') and North arrow.
- 11-Proposed limits of clearing/disturbance and location of stockpiles during construction.
- 12-Location of proposed Erosion and Sedimentation controls and other management practices and mitigation measures which may be considered as a condition of issuing a permit for the proposed regulated activity. The erosion and sedimentation control provisions on the site plan must comply with the most current CT DEP edition of the *Connecticut Guidelines for Soil Erosion and Sedimentation Control* and be so noted on the plans.
- 13 -Location of proposed Stormwater treatment design on the site plan must comply with the most current CT DEP edition of the *Connecticut Stormwater Quality Manual* and be so noted on the plans. It is strongly recommended that low impact development techniques, stormwater management techniques that are designed to approximate the pre-development site hydrology, be utilized in the stormwater system design wherever practical and possible.
- 14-Location of proposed mitigation or wetland enhancement measures which may be considered as a condition of issuing a permit for the proposed regulated activity. **N/A**
- 15-Timing and description of phases of activities, installation of sediment and stormwater control measures and temporary and permanent stabilization methods.

The Wetland Agent will notify you if any additional information is needed in order to properly evaluate your proposal.

- 8) Is any portion of this property located within the watershed of a water company as defined in section 16-1 of the Connecticut General Statutes? NO If yes, the Applicant is required to provide written notice of the application by certified mail, return receipt requested, to the water company on the same day of filing this permit application with the Thompson Inland Wetlands and Watercourses Commission. Documentation of such notice shall be provided to the Commission.

9) Does any portion of this property contain a Natural Diversity Data Base (NDDDB) area of concern as defined on the map of Federal and State Listed Species and Significant Natural Communities, for Thompson, Connecticut, prepared by the Connecticut Department of Environmental Protection? YES* If yes, the Applicant must contact the CT DEP for information regarding the State or Federal Listed Species of Concern. * THE CRITICAL HABITAT AREA APPEARS TO BE JUST THE FLOODPLAIN NEAR THE RIVER PAST THE LIMIT OF DISTURBANCE.

10) Names and Addresses of Abutters:

SEE ATTACHED FOR ABUTTERS WITHIN 100'

11) Estimated start date SUMMER 2021

Estimated date of completion (all disturbed areas are stabilized) SPRING 2022

12) The undersigned hereby consents to necessary and proper inspections of the above mentioned property by the Agents of the Town of Thompson Inland Wetlands Commission, at reasonable times, both before and after the approval in question has been granted by the Agent, including site walks by Commission members and staff for the purpose of understanding existing site conditions, which may be necessary in order to render a decision on this application.

The undersigned swears that the information supplied in this completed application is accurate to the best of her/his knowledge and belief.

ABSOLUTELY NO WORK IS TO BEGIN UNTIL ALL NECESSARY APPROVALS ARE OBTAINED.

Upon Approval the Applicant is responsible for publishing a notice of the approval, at the applicant's expense, in a newspaper having a general circulation in the Town of Thompson. The Agent will provide the necessary notice to the newspaper for public notice, and such notice must be published within ten (10) days of the date of approval.


Signature of Applicant _____ Date 3/31/2021

Consent of Landowner if other than applicant _____ Date

Please attach a written consent by the owner if applicant is not the property owner.

Appl WAA21009 Copy



WETLAND DELINEATIONS AND PERMITTING ~ E&S/SITE INSPECTIONS

JOSEPH R. THEROUX

~ CERTIFIED FORESTER/ SOIL SCIENTIST ~

PHONE 860-376-6842 ~ FAX 860-376-6821

P.O. Box 32, VOLUNTOWN, CT. 06384

FORESTRY SERVICES ~ ENVIRONMENTAL IMPACT ASSESSMENTS

10/18/2011

J & D CIVIL ENGINEERS
401 RAVENELLE RD.
NORTH GROVESNORDALE CT. 06255

Received

MAR 31 2011

Thompson Wetland Office

ATTN: MR. DENNIS BLANCHETTE

RE: ALLEN WETLAND DELINEATION, 520 RIVERSIDE DRIVE, THOMPSON, CT.

DEAR DENNIS,

AT YOUR REQUEST I HAVE DELINEATED THE WETLANDS, WATERCOURSES AND FLOODPLAIN SOILS ON THE PROPERTY OF JOSEPH ALLEN LOCATED AT 520 RIVERSIDE DRIVE IN THOMPSON, CONNECTICUT.

THESE WETLANDS HAVE BEEN DELINEATED IN ACCORDANCE WITH THE STANDARDS OF THE NATIONAL COOPERATIVE SOIL SURVEY AND THE DEFINITIONS OF WETLANDS AS FOUND IN THE CONNECTICUT STATUTES, CHAPTER 440, SECTIONS 22A-38.

FLUORESCENT PINK FLAGS LABELED WETLAND DELINEATION WITH A CORRESPONDING LOCATION NUMBER DELINEATE THE BOUNDARY BETWEEN THE UPLAND SOILS AND THE POORLY DRAINED OR WETLAND SOILS.

FLAG NUMBERS WF-1 THRU WF- 33 DELINEATE THE NORTHERN EDGE OF A SMALL INTERMITTENT WATERCOURSE THAT ORIGINATES FROM A STORM WATER DRAIN ASSOCIATED WITH THE PLUM ROAD AND THE RIVERSIDE DRIVE STORM WATER SYSTEM.

THE REMAINDER OF THIS FLAG SERIES DELINEATES THE BOUNDARY BETWEEN THE LIMITS OF FILL AND THE FLOODPLAIN SOILS ASSOCIATED WITH THE FRENCH

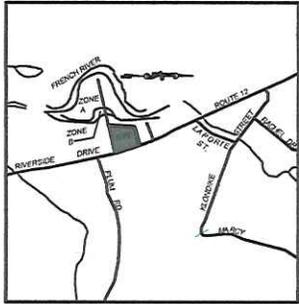
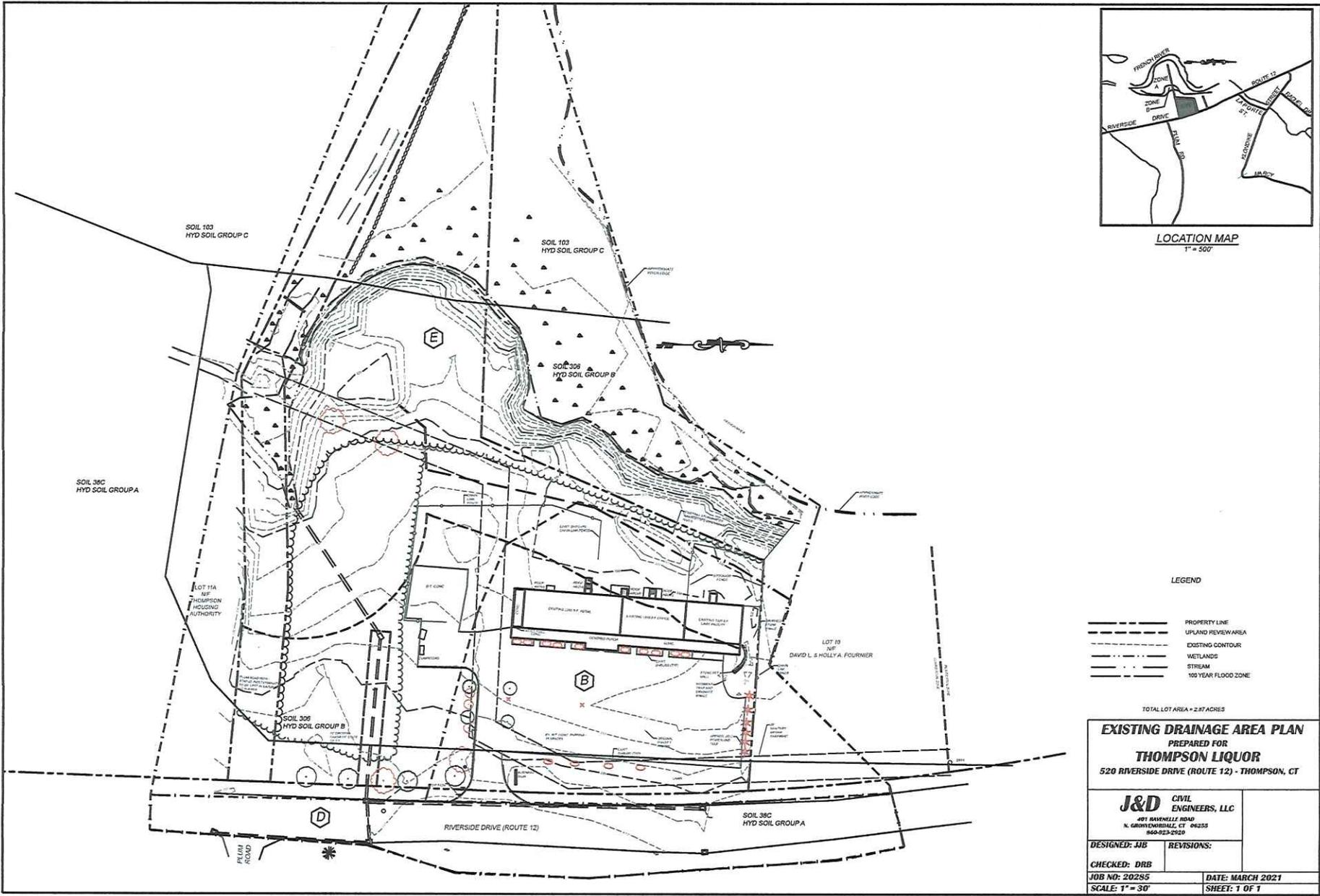
RIVER ON THE WESTERN BOUNDARY OF LOT 10-A BEHIND THE EXISTING OFFICE BUILDING.

FLAG NUMBERS WF-1A THRU WF-19A DELINEATE THE SOUTHERN EDGE OF THE INTERMITTENT WATERCOURSE, WETLANDS AND FLOODPLAIN SOILS LOCATED ON LOT 10-B.

IN CONCLUSION, IF YOU HAVE ANY QUESTIONS CONCERNING THE DELINEATION OR THIS REPORT, PLEASE FEEL FREE TO CONTACT ME.

THANK YOU,

JOSEPH R. THEROUX
SOIL SCIENTIST
MEMBER SSSSNE, NSCSS.



LOCATION MAP
1" = 50'

LEGEND

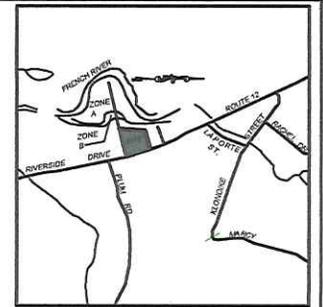
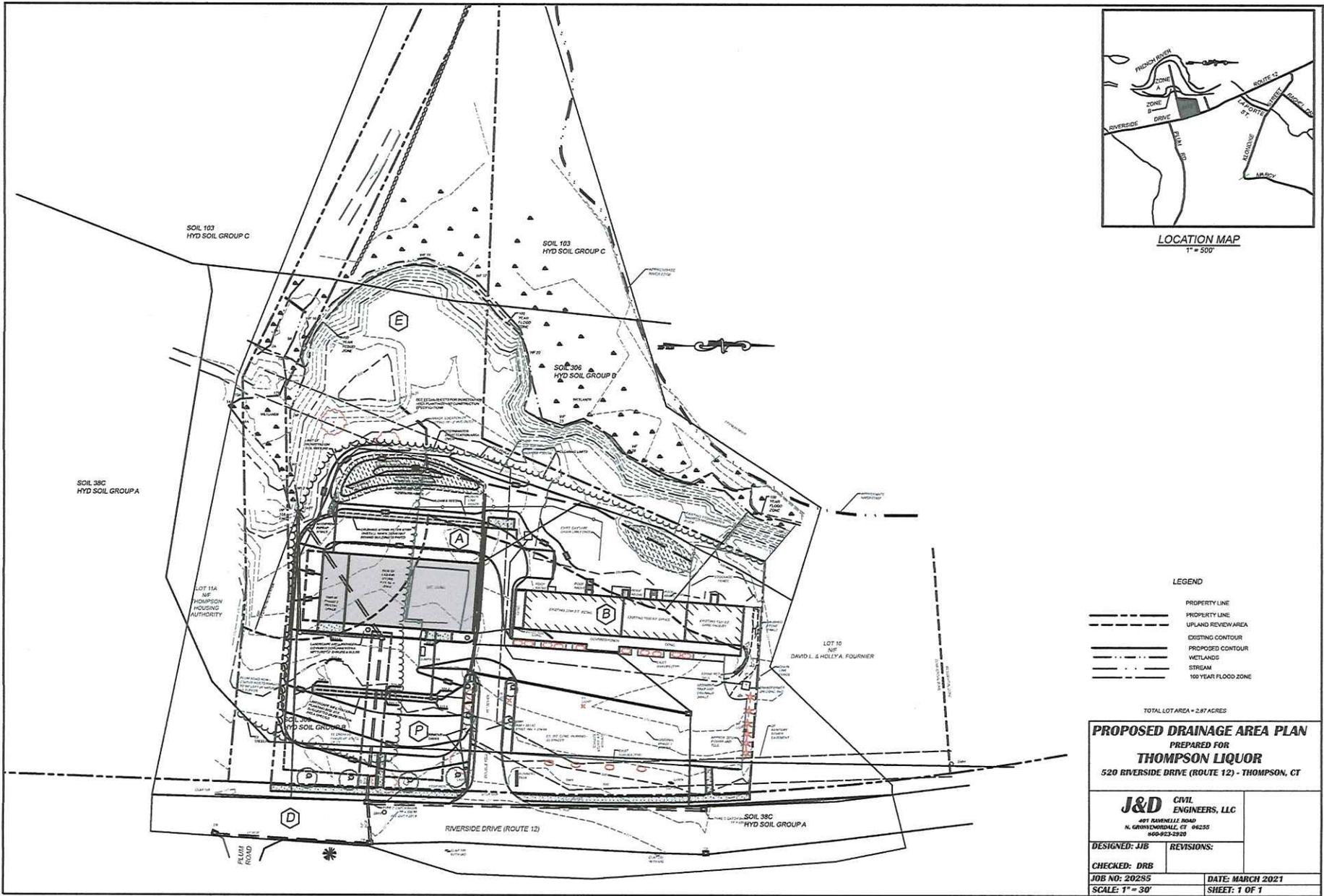
- PROPERTY LINE
- - - UPLAND REVIEW AREA
- - - EXISTING CONTOUR
- - - WETLANDS
- STREAM
- - - 100 YEAR FLOOD ZONE

TOTAL LOT AREA = 2.97 ACRES

EXISTING DRAINAGE AREA PLAN
PREPARED FOR
THOMPSON LIQUOR
520 RIVERSIDE DRIVE (ROUTE 12) - THOMPSON, CT

J&D CIVIL ENGINEERS, LLC
401 HAVENELLE ROAD
N. GROVE/CORNBALL, CT 06255
860-923-3100

DESIGNED: JIB	REVISIONS:
CHECKED: DRB	
JOB NO: 20285	DATE: MARCH 2021
SCALE: 1" = 30'	SHEET: 1 OF 1



LOCATION MAP
1" = 500'

LEGEND

- PROPERTY LINE
- - - - - UPLAND REVIEW AREA
- EXISTING CONTOUR
- PROPOSED CONTOUR
- WETLANDS
- STREAM
- 100 YEAR FLOOD ZONE

TOTAL LOT AREA = 2.87 ACRES

PROPOSED DRAINAGE AREA PLAN
 PREPARED FOR
THOMPSON LIQUOR
 520 RIVERSIDE DRIVE (ROUTE 12) - THOMPSON, CT

J&D CIVIL ENGINEERS, LLC
 491 RAVENHILL ROAD
 N. GROVENDALE, CT 06255
 860-863-5200

DESIGNED: JJB	REVISIONS:
CHECKED: DRB	DATE: MARCH 2021
JOB NO: 20255	SHEET: 1 OF 1
SCALE: 1" = 30'	

Stormwater Management Report

Prepared For

**Thompson Liquor
520 Riverside Drive
(Route 12)**

Thompson, CT

March 30, 2021

Prepared by:

J & D

**Civil
Engineers, LLC**

401 Ravenelle Road
N. Grosvenordale, CT 06255

Received

MAR 31 2021

Thompson Wetlands Office

Project Description

The property is located east of the French River on the west side of Riverside Drive (Route 12). A 5070 SF commercial building with a 35-space paved parking lot exists on the site. In 2012 a two story 8300 SF commercial building with a drive-up window and 50 additional parking spaces was approved by the Thompson Inland Wetlands Commission. The project also received P & Z site plan and special permit approval at that time. This project was never built.

The current owner of the property, Neil Patel, also wants to construct an additional commercial building with a drive-up window. The proposed building would be up to 7200 SF and have up to 33 new parking spaces. The primary difference between the 2012 project and the current project is the orientation of the building. The previously approved building was perpendicular to the road and parallel to the southern property line. The building currently proposed runs parallel to the road with the front face in line with the front face of the existing commercial building.

The 2012 drainage design incorporated several LID features to the rear of the buildings. This drainage system was partially installed and is working well. The current project proposes slight less impervious area than the project approved in 2012 therefore the bioretention area designed in 2012 will be adequately sized. The hydraulic model was updated to reflect the current proposal.

Existing Site Description

The property is approximately 2.9 acres in size. The size of the area proposed for development is approximately 2.1 acres. The portion of the site being developed has been historically disturbed. A house, well and septic system existed in the approximate area of the proposed building.

Two significant pipe easements run through the property. The Town of Thompson's interceptor sewer line that runs parallel to the French River cuts through the property. Also, CT DOT's drainage from Route 12 runs through the property.

Although there are not many wetlands on the property, there are extensive wetlands and a flood plain adjacent to the French River just off the property. The proposed activities do not involve any work in the wetlands and are 10' – 15' above the 100-year flood plain.

Existing and Proposed Drainage Patterns

The runoff from the parking lot for the existing commercial development drains to a swale on the north side of the building and is then directed into an infiltration basin constructed a few years ago. CT DOT has a drainage pipe network that discharges directly into the wetlands and then travels several hundred feet to the river.

No changes will be made to CT DOT's drainage system, except to re-route their pipe around, instead of under, the proposed building. The proposed development will drain via sheet flow and pipe flow to the proposed bioretention area. The runoff will be treated to improve water quality prior to discharging.

Hydrologic Soil Groups

The soil type on the developed portion of the property was determined, by test pits, to be well drained sand and gravel. The NRCS groups soils into four categories according to their runoff producing characteristics. Group A consists of soils that have a high infiltrative capacity and a low runoff potential even when saturated. Group D soils have a very low infiltration rate and high runoff potential. In order to be conservative, the well drained soils on this site were modeled as Hydrologic Group B.

Stormwater Quality

Given the site's close proximity to a major river, stormwater quality is a significant concern and more important than focusing on stormwater quantity (peak flow reduction). Therefore the design emphasis was primarily stormwater treatment and to a lesser extent mitigating peak flow increases.

This project incorporates several best management practices that will help improve water quality. The stormwater quality features have been designed as recommended by the 2004 CT Stormwater Quality Manual and the 2007 Prince Georges County, Maryland Bioretention Manual.

100% of the runoff from impervious areas on the site will be treated. The primary treatment BMP will be the bioretention/stormwater infiltration area proposed downslope of the developed areas. These bioretention area is located within the upland review area of the wetlands. As stated in the Prince Georges County Bioretention Manual "Bioretention is a terrestrial based (upland as opposed to wetland) water quality and water quantity control practice using chemical, biological, and physical properties of plants, microbes, and soils for removal of pollutants from stormwater runoff. Some of the processes that may take place in a bioretention facility include sedimentation, adsorption, filtration, volatilization, ion exchange, decomposition, phytoremediation, bioremediation, and storage capacity."

Upstream of the two bioretention areas the stormwater runoff is "pre-treated" to remove the largest particles, such as sand that could clog the bioretention soils. Pretreatment includes CB sumps and flow through an infiltration planting bed, crushed stone swales and filtration strips and lawn areas.

On this site, with well drained underlying soils, an added benefit will be groundwater discharge. In a heavy rainfall event, runoff that is not infiltrated into the native soil, or stored within the bioretention area, will be collected in a perforated underdrain under the specialized soil mixture that will discharge to an isolated depression within the uplands west of the bioretention area. In the case of an extreme rainfall events that

exceeds the storage capacity of the bioretention area, overflow to the wooded depression west of the basin would occur.

Methodology

The HydroCAD computer program was used for hydraulic computations for this project. This program models the hydrology and hydraulics of stormwater runoff based largely upon the methods developed by the Soil Conservation Service (now known as the Natural Resources Conservation Service). Required input data includes the size of the contributing drainage area, curve numbers which are based upon land use and soil types, and times of concentration. Hydrographs with peak flows determined are calculated for each drainage area based upon the SCS synthetic unit hydrograph method. The rainfall distribution used in the program was the SCS Type III storm recommended for New England.

Comparison of Pre-development and Post Development Flows

The bioretention areas do help mitigate the effects of increased peak flows caused by increased impervious area. The areas both infiltrate and store stormwater. Also, the overflow was directed to an existing depressed area on the site which further attenuates peak flows. For the vast majority of storm events, the two year storm and more frequent storms, there will be no increase in runoff from the site. The small increase in flow for infrequent extreme storm events will be easily absorbed by the relatively large French River.

It is also worth noting that the designed stormwater management features can handle the runoff from the site if it is fully developed with impervious areas as indicated on the site development plans. If the drive through lane, future parking near Route 12, or the Phase 2 building aren't constructed, then there will be less impervious area and the drainage system will have excess capacity.

For various storm events the peak flow comparisons are:

	2 year	10 year	25 year
Proposed	1.3 CFS	3.7 CFS	6.0 CFS
Existing	1.4 CFS	4.2 CFS	3.2 CFS

E.c) 1. Applications Received After Agenda was
Published - None

F)a) Permit Extensions / Changes

IWA14019, Patricia Rudzinski, 0 Labby Rd. (Assessor's map 95, block 27, lot 17), requesting a 3 year extension of gravel removal permit to expire 10/14/24, received by Wetlands Office 3/3/2021.

Agenda Item G.a. Violations & Pending Enforcement Actions

Cease & Restore Order VIOL20003 Scott Josey, 637 East Thompson Road, Assessor's map 154, block 5, lot 14: filling of wetlands and work within 100-foot upland review area, status of compliance with Cease & Restore Order.

Agenda Item G.b. Violations & Pending Enforcement Actions

VIOL20033, Jennifer Burlingame & Robert Lemieux, Jr., 480 Quaddick Town Farm Rd., Assessor's map 158, block 20, lot 8K, filling / earthmoving within 100-foot upland review area and possibly within delineated wetlands. Status of Notice of Violation issued 8/6/2020.

Agenda Item H Other Business

- a) Discussion: Continuing use of Zoom meetings for future IWC meetings

1.

Agenda Item I Reports

1 Budget & Expenditures

2 Wetlands Agent Report

Agenda Item J, Correspondence - None

Agenda Item K, Signing of Mylars - None

Agenda Item L, Comments by Commissioners

Agenda Item M

Adjournment