

Brooklyn Inland Wetlands Commission
Special Meeting Agenda
Tuesday, September 12, 2023
Zoom and In-Person Meeting
Community Center
31 Tiffany Street Upper Level
6:00 p.m.

In-Person: Community Center 31 Tiffany Street Upper Level, Brooklyn, CT	
Online: Click link below: https://us06web.zoom.us/j/83921116459	OR Go to Zoom.us , click Sign In On the top right, click Join a Meeting Enter meeting ID: 839 2111 6459
Phone: Dial 1 646 558 8656 US Toll Enter meeting number: 839 2111 6459 You can bypass attendee number by pressing #	

Call to Order:

Roll Call:

Staff Present:

Seating of Alternates:

Public Commentary:

Additions to Agenda: None.

Approval of Minutes: Site Walk Minutes August 16, 2023
Special Meeting Minutes August 8, 2023

Public Hearings:

1. IWWC 23-006 Ryan Kelleher. 404 Wolf Den Road, Map 18, Lot 22, RA Zone;
Improvement of an existing gravel driveway through a wetland to construct a single-family home on 41 acres of land.

Old Business:

1. IWWC 23-006 Ryan Kelleher. 404 Wolf Den Road, Map 18, Lot 22, RA Zone;
Improvement of an existing gravel driveway through a wetland to construct a single-family home on 41 acres of land.

2. IWWC 23-007 Tripp Hollow Investments LLC, Tripp Hollow Road, Map 14, Lot 10-1 RA Zone; Proposed single-family house, well, septic system and site grading in the upland review area on a subdivision lot created in 2004.

3. 253 Wolf Den Road, Map 17, Lot 32-3 – Janessa Choquette. Remediation work update.

4. 071321A A. Kausch & Sons, Pomfret Landing Road/Church Street, Map 37, Lot 17 and Map 37 Lot 20 and 21; Wetlands crossing for driveway, 2 residential homes, septic system, well, minor grading. **Show cause hearing for wetlands violation.**

New Business:

1. IWWC 23-010 A. Kausch & Sons, Church Street, Map 37, Lot 21, RA Zone; Driveway with wetlands crossing; 2,100 sq ft of wetlands alterations for single-family house, septic system, well and grading in the upland review area.

Other Business:

Communications:

1. Wetlands Agent Monthly Report.
2. Budget Update.

Public Commentary:

Adjourn:

Richard Oliverson, Chairman

Brooklyn Inland Wetlands and Watercourses Commission

Special Meeting Minutes

Tuesday, August 8, 2023

Zoom and In-Person Meeting

Community Center

31 Tiffany Street Upper Level

Call to Order: 6:05 pm

Roll Call: Richard Oliverson, Adam Brindamour, Janet Booth, Adam Tucker. Absent with notice: Demian Sorrentino, Jason Burgess, James Paquin.

Staff Present: Margaret Washburn; Terry Mahanna, Recording Secretary.

Attendance: Attending in person: Norm Thibeault, Killingly Engineering; Keith Pasay. Attending via Zoom: Jeff Bord, Bohler Engineering; Pete Parent, CHA Engineering; Ryan Kelliher; Sharon Loughlin; one anonymous participant.

Seating of Alternates: None.

Public Commentary: None.

Approval of Minutes:

Site Walk Minutes June 19, 2023 – APPROVED 4-0-0.

Special Meeting Minutes July 11, 2023 - APPROVED 4-0-0.

Public Hearings:

1. IWWC 23-009: A. Kausch & Sons, Church Street, Map 37, Lot 21, RA Zone; Single-family house with driveway crossing; 2,100 sq ft of proposed wetlands alteration.

Per Margaret Washburn, Paul Archer did not show up for the site inspection that was scheduled at the July 11, 2023 meeting. He had agreed to attend the site inspection, stake the house location and re-hang the missing wetlands flags prior to the site inspection. None of this was done, and he failed to tell the agent or Commission that he would not attend the site inspection.

Adam Tucker stated that he read the minutes from the July 11, 2023 meeting, and reviewed the applications and plans for all tonight's agenda items. He feels qualified to vote on these applications after making himself familiar with the applications. He was not present at the July 11, 2023 meeting.

No hearing can be held at this time due to the failure of the applicant to post signage and notify abutters. This item will defer to Old Business.

Old Business:

- 1. IWWC 23-009: A. Kausch & Sons, Church Street, Map 37, Lot 21, RA Zone;** Single-family house with driveway crossing; 2,100 sq ft of proposed wetlands alteration.

A **motion** was made by Adam Brindamour and seconded by Janet Booth to deny without prejudice due to an incomplete application. Motion carried unanimously by vote (4-0-0).

- 2. IWWC 23-005: Townsend Development Associates LLC, 538 Providence Road, Map 41, Lot 16, PC Zone;** Modification to existing approved Special Permit to construct approximately 16,100 sf of Self Storage in two buildings, and 19,360 sf of commercial space.

Margaret Washburn referenced the comments provided by Syl Pauley (Regional Engineer). Pete Parent confirmed that all his responses to Syl Pauley's review comments were satisfactory and the issues have been addressed. Mr. Parent indicated that there is a hydrodynamic separator. In addition, the commission discussed the need for the culvert to be maintained by the Town, now and on an ongoing basis. Pete Parent stated that the culvert should be maintained at least once per year. Ms. Washburn suggests a letter to the First Selectman, Austin Tanner, and to Tommy Rukstela, Highway Department foreman, to communicate the need for maintenance now, and ongoing.

A **motion** was made by Janet Booth and seconded by Adam Brindamour to approve with standard conditions. The reasons stated were that after the site walk, review of plans, review of comments, and the acceptance of revisions, we are satisfied that there are no impacts to wetlands. A follow-up letter is to be sent by Ms. Washburn to the Town regarding requirement for ongoing maintenance. Motion carried unanimously by vote (4-0-0).

- 3. IWWC 23-006: Ryan Kelleher. 404 Wolf Den Road, Map 18, Lot 22, RA Zone;** Improvement of an existing gravel driveway through a wetland to construct a single-family home on 41 acres of land.

Norm Thibeault provided a brief history of the lot: an application was originally made in 2004 to the Army Corps of Engineers (ACOE) for a 10-lot subdivision. The ACOE approved more than 12,000 sf of wetlands alterations. The time allowed for approval of the IWWC application ran out with no decision rendered. The developer appealed, but the economy crashed, causing the appeal to be withdrawn. Norm indicated that the driveway was in at that time and provided photos from 1934 showing the driveway.

Mr. Thibeault described the proposed improvements to the existing driveway, which includes widening it in two areas. There are two 15" pipes which are frequently overwhelmed, even in 2-year storms. Two 4' x 2' open-bottomed box culverts are proposed. The flood zone is shown on the plans with a compensatory flood storage area for impacts from filling wetlands for widening the driveway. A modified rip rap swale with a plunge pool are proposed to slow down runoff from the driveway.

A wetlands impact report with recommendations prepared by Joe Theroux was submitted. Impacts are significant within the footprint of the fill proposed. Mr. Thibeault read a portion of the report. There is a need to address the lack of silt fence and hay bales between the compensatory flood storage area and wetlands. Work must be done during low flow/no flow conditions. Vegetation needs to be established quickly following the wetlands alterations.

Mr. Thibeault stated that he received Syl Pauley's comments at 3:27pm today, although he did not yet have time to address them. Mr. Thibeault concludes that the impact proposed now will be lower than that of the previously proposed 10-lot subdivision.

Margaret Washburn mentioned the need to be mindful when doing the work and asked if there would be coffer dams or bypass pumping. Mr. Thibeault indicated they could show a temporary culvert or bypass pumping on the plans, if requested.

Janet Booth asked a question as to ensuring ongoing maintenance. Mr. Thibeault indicated the owner (Ryan Kelleher) is aware he will need to stay on top of the maintenance. Mr. Kelleher stated that he has no intentions of paving the driveway; it will remain as gravel in perpetuity.

Ms. Washburn asked Mr. Thibeault how he was sure that the larger box culverts would not drain the wetlands upstream of the driveway. Mr. Thibeault said that the box culverts will have the same invert elevations as the pipes do now.

Ms. Washburn indicated that a public hearing is appropriate. Mr. Thibeault agreed to provide revisions regarding a temporary culvert or bypass pumping for the hearing.

Mr. Thibeault said that low flow/no flow conditions usually occur around this time of year. Regarding the recommendation made by Joe Theroux that vegetation needs to be established quickly following work, Ms. Washburn asked Mr. Thibeault how this would be accomplished late in the growing season. Mr. Thibeault said that Joe Theroux recommended using New England Wet-mix for seeding native wetlands species.

The commission determined a site walk is warranted and will therefore be conducted on August 16th at 5:30pm.

A **motion** was made by Adam Brindamour and seconded by Adam Tucker to schedule a public hearing to be held on September 12, 2023 at 6:00 pm at 31 Tiffany Street, Upper Level. Motion carried unanimously by vote (4-0-0).

4. IWWC 23-007: Tripp Hollow Investments LLC, Tripp Hollow Road, Map 14, Lot 10-1 RA Zone; Proposed single-family house, well, septic system and site grading in the upland review area on a subdivision lot created in 2004.

Norm Thibeault, as representative of this project, described the parcel as being largely in the regulated area, with the proposed placement of the house creating the least amount of disturbance. He indicated that the parcel is a total of 4.3 acres with approximately 1.75 acres being wetlands.

Janet Booth asked generally how to prevent an owner/developer from clearing up a bigger area than that shown on the approved plan. Margaret Washburn indicated that the developer on this site will not work beyond the limit of disturbance shown on the plan. Also, homeowners are allowed to cut firewood.

A discussion regarding wetlands flagging followed. The property was flagged in 2004. The commission's policy is that if flagging is older than 15 years, the property must be re-delineated. The commission indicates the property needs to be re-delineated prior to construction and the plans need to be updated. Mr. Thibeault agrees.

A **motion** was made by Adam Brindamour and seconded by Janet Booth to continue discussion of this application at the next meeting on September 12, 2023. Wetlands are to be re-delineated and revised plans are to be submitted by September 5, 2023. Motion carried unanimously by vote (4-0-0).

5. IWWC 23-008: Wal-Mart Real Estate Business Trust, 450 Providence Road, Map 41, Lot 10, PC Zone;
Online grocery pickup addition with parking modifications.

Jeff Bord presented via Zoom. The commission reviewed the application, plans, site walk and inspection report which indicated no work beyond the existing asphalt and no increase in impervious surfaces. It was concluded that there will be no impact to wetlands.

A **motion** was made by Janet Booth and seconded by Adam Tucker to approve the application with standard conditions, because there are no impacts to wetlands. Motion carried unanimously by vote (4-0-0).

New Business:

253 Wolf Den Road – Janessa Choquette. Show Cause Hearing for Wetlands Violation.

Richard Oliverson indicated he went out to look at the property.

Keith Pasay was present to represent this project. He provided a brief history of the work he previously did when he owned the property, and indicated his goal was not to provide a completed driveway. He no longer owns the property.

As a result of the washout that occurred, Keith agreed to the following remediation sequence:

- Block the top of the driveway with stacked hay bales.
- To slow the flow from the neighboring property, hay bales/silt fence will be placed between the property line and the driveway (60' long).
- Raise the grade between the property line and the driveway by about 3-6" using loam and seed.
- Raise the gravel above the wetlands crossing to meet the grade of the grass on either side.
- Clean the fill that washed down the slope with hand tools, put it back up the slope, loam and seed the washout.
- Place landscape fabric, loam and seed, and add a light layer of hay mulch to stabilize.

Margaret Washburn indicated she is agreeable to closing the Notice of Violation after the site and the above remediation work has been completed. She and Janet Booth will both inspect the site tomorrow morning., Mr. Pasay will provide Ms. Washburn with an update on progress by Monday, August 14, 2023.

A **motion** was made by Adam Brindamour and seconded by Janet Booth to approve the remediation plan and the remediation sequence with an inspection at the beginning of the remediation process. Motion carried unanimously by vote (4-0-0).

Other Business:

Discussion on special meeting dates: There is no need to vote. It is anticipated that the next regular meeting will be held at the Green Building. Until we meet at the Green Building, meetings at Tiffany Street will be special meetings.

183 Barrett Hill Road – Erica and Ryan Murphy. New horse barn, no wetlands permit needed, no action for the commission.

Jake Kausch - 409 & 411 Church Street driveway.

Adam Brindamour saw the property. Millings have been added to the driveway. The driveway was supposed to be gravel. Mr. Brindamour stated that if the fill rises to a level in the uplands review area that is beyond what was permitted on the approved plan, Margaret Washburn is to issue a Notice of Violation requiring Jake Kausch to attend a show cause hearing on September 12, 2023.

FCR Realty LLC - FCR Gravel Pit, Map 41, Lot 6 and Map 35, Lot 7. The 3/3/22 Enforcement Order has been closed.

Communications:

1. Wetlands Agent Monthly Report.
2. Budget Update.

Public Commentary: Sharon Loughlin, who joined via Zoom, mentioned that she attended to do her due diligence, and was impressed with the level of professionalism at tonight's meeting.

Adjourn: Motion to adjourn was made at 8:36 p.m. by Adam Brindamour and seconded by Adam Tucker. Motion carried unanimously by vote (4-0-0).

Submitted By:
Terry Mahanna
Recording Secretary

Brooklyn IWWC

August 16, 2023 Site Walk Minutes

5:30 PM

Site walk location: **IWWC 23-006: Ryan Kelleher. 404 Wolf Den Road, Map 18, Lot 22, RA Zone**

Members present: Adam Brindamour, Adam Tucker, Jason Burgess, Janet Booth

Others present: Norm Thibeault

Meeting started: 5:30 PM

Mr. Thibeault escorted the members down the driveway into the wetland. He had a set of plans and identified the flags as we walked. Flags 10, 21, 22, 16 were pointed out; The stone wall running alongside the driveway on the left was noted as the northern border of the property. Flags 14, 19, 18 were noted with explanation that they mark the portion of the driveway that is wetland.

Mr. Thibeault pointed out the two old pipes that the plan shows as being replaced with 4'x2' open bottom box culverts with goal of it being able to handle 100-year storm. He explained top of culvert will be 9 in higher than the top of the current pipe.

There was discussion about the historical location of the flow of the brook. Discussion of materials used historically for pipe manufacture.

Flags including 5a marking end of wetland were pointed out. Proposed plunge pool was pointed out.

He explained that the wetland surface will be raised anywhere from half a foot to a foot due to current driveway not being flat.

Discussion of history of driveway and date of manufacture of pipe materials.

Discussion of riprap swale, ¼ ac worth of swale and pavement on 10% slope up to house.

He explained driveway width would be widened from 10 to 12 feet.

At 5:43 Member Adam Tucker departed ending quorum.

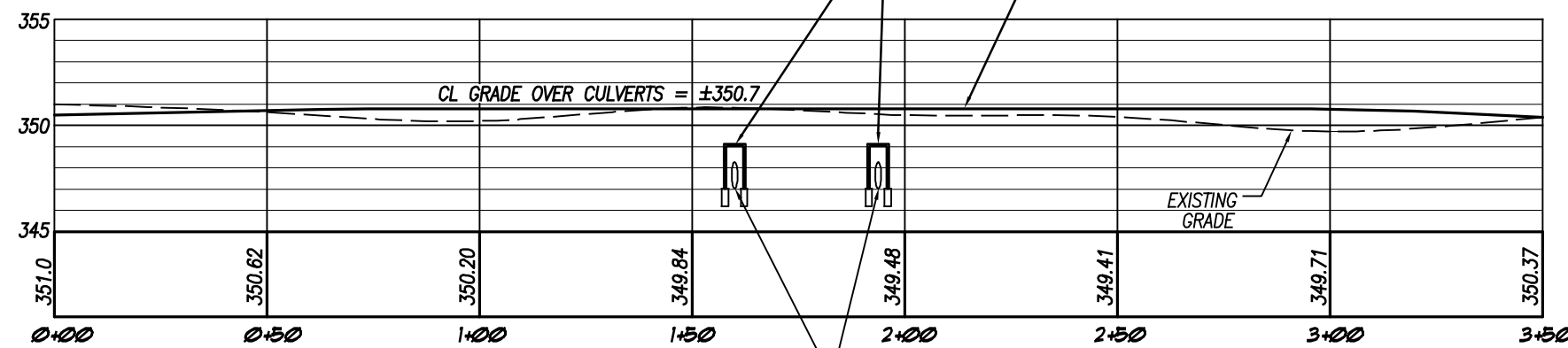
Meeting ended: 5:43 PM

Respectfully submitted,

Janet Booth, Member Brooklyn IWWC

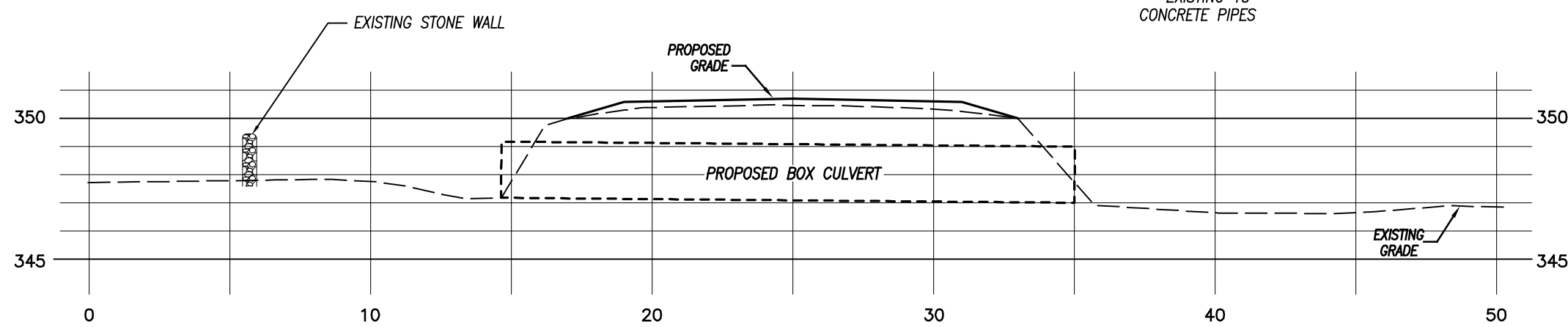
DRIVEWAY PROFILE

HORIZONTAL SCALE IN FEET
VERTICAL SCALE IN FEET

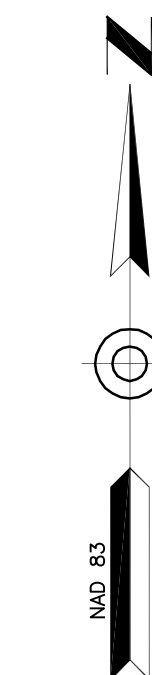


CROSS SECTION "A-A"

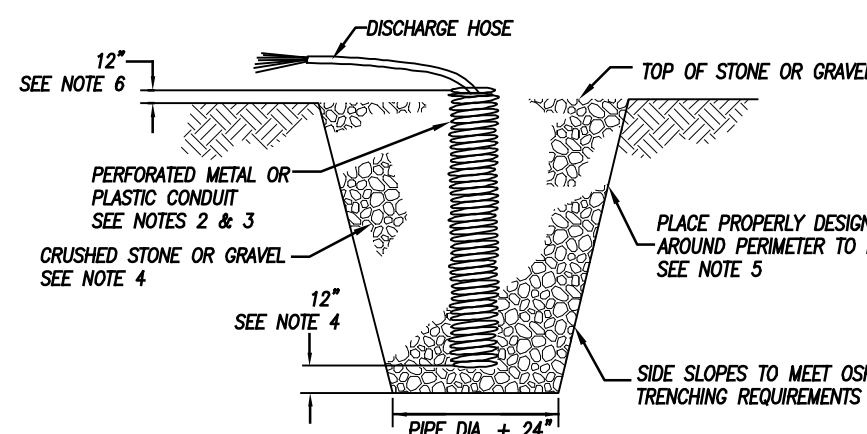
SCALE: 1" = 5'



n/f
Donald K. Gudeahn, Jr.
&
Diane E. Gudeahn
Map 18, Lot 21



WOODWARD RD.



- OVERALL SUMP PIT DIMENSIONS SHALL BE COMPATIBLE WITH ANTICIPATED OR MEASURED FLOW RATES AND PUMP SIZE TO BE USED.
- THE STANDPIPE DIAMETER AND NUMBER OF PERFORATIONS SHALL BE COMPATIBLE WITH THE PUMP SIZE BEING USED.
- PERFORATIONS IN THE STANDPIPE SHALL BE EITHER CIRCULAR OR SLOTS. PERFORATION SIZE SHALL NOT EXCEED 1/2" IN DIAMETER.
- CRUSHED STONE OR GRAVEL SHALL BE NO SMALLER THAN CT DOT #67 SIZE NOR LARGER THAN CT DOT #3 SIZE. CRUSHED STONE SHALL EXTEND A MINIMUM OF 12" BELOW THE BOTTOM OF THE STAND PIPE.
- IF EXCESSIVE MOVEMENT OF FINE SOIL PARTICLES FROM THE SURROUNDING EXISTING SOILS IS ANTICIPATED, A PROPERLY DESIGNED GEOTEXTILE SHALL BE PLACED BETWEEN THE EXISTING SOILS AND THE CRUSHED STONE OR GRAVEL BACKFILL.
- THE STANDPIPE SHALL EXTEND A MINIMUM OF 12" ABOVE THE SURROUNDING GROUND.

SUMP PUMP INTAKE PROTECTION DETAIL

NOT TO SCALE

NOTE: TO BE UTILIZED IN THE EVENT THAT DEWATERING IS REQUIRED FOR BOX CULVERT INSTALLATION

LEGEND

- DH DRILL HOLE FOUND
- UTILITY POLE
- PERCOLATION TEST HOLE
- TEST HOLE
- 100 --- EXISTING CONTOURS
- 100 --- PROPOSED CONTOURS
- INLAND WETLANDS FLAG
- BUILDING SETBACK LINE
- STONE WALL
- SILT FENCE

ANY CHANGES TO THESE PLANS WITHIN 200' OF WETLANDS OR WATERCOURSES MUST BE RESUBMITTED TO THE BROOKLYN INLAND WETLANDS COMMISSION.

THE APPLICANT WILL CONTACT THE BROOKLYN INLAND WETLANDS COMMISSION OR ITS AGENT AFTER ALL EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED, PRIOR TO ANY CONSTRUCTION OR EXCAVATION ON THE PROPERTY.

ENDORSED BY THE BROOKLYN INLAND WETLANDS COMMISSION

CHAIRMAN

DATE

**BEFORE YOU DIG
CALL BEFORE YOU DIG**
AT LEAST TWO FULL BUSINESS DAYS
BEFORE DIGGING OR DISTURBING EARTH
DIAL 811 OR 1-800-922-4455

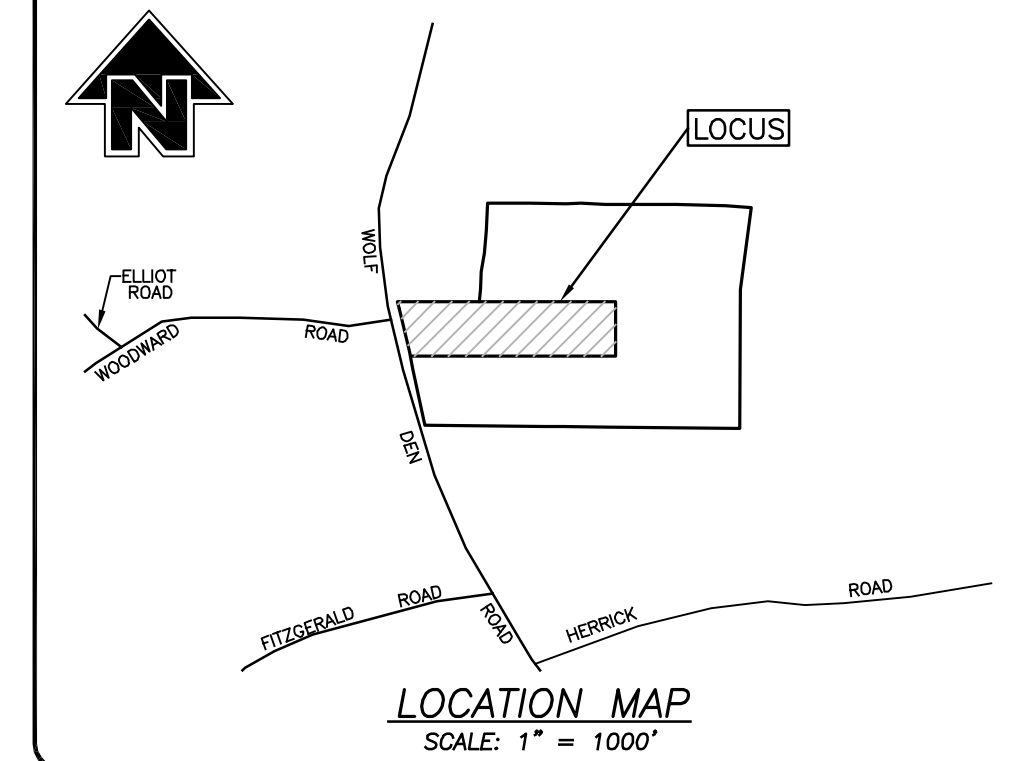


NORMAN E. THIBAUT, JR., P.E.
LIC #PEN 0022634

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

GREG A. GLAUDE, L.S. LIC. NO. 70191 DATE 8/14/2023

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



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, Amended October 26, 2018;
 - This survey conforms to a Class "C" horizontal accuracy.
 - Field surveyed topographic features conform to a Class "T-2", "V-2" vertical accuracy.
 - LIDAR topographic features conform to a Class "T-D" vertical accuracy.
 - Survey Type: General Location Survey.
- 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.
- Zone = RA.
- Parcel is shown as Lot #22 on Assessors Map #18.
- Owner of record: Ryan & Leah Kelleher & Judith & William Raitt
155 Lafantasie Road
Danielson, CT 06239
See Volume 704, Page 126
- Elevations shown are based on North American Vertical Datum of 1988 (NAVD 88). Contours shown are taken from Connecticut statewide LIDAR and supplemented with actual field survey. Contour interval = 2'.
- Wetlands shown were delineated in the field by Joseph Theroux, Certified Soil Scientist, in 5/2/2023.
- North orientation, bearings and coordinate values shown are based on North American Datum of 1983 (NAD 83) and are taken from GPS observations using the "Superior" statewide GPS network and RTK correction system.
- 100 year flood zone shown was taken from the preliminary FIRM Wintham County flood maps dated 7/17/2020, panel 090164 0236F.

MAP REFERENCES:

- "Survey Plan - Prepared for - State of Connecticut Dept. of Agriculture Farmland Preservation Program - Map of Property of - Hillandale Family Limited Partnership & Estate of Georgy L. Booth - Wolfden & Bush Hill Road - Brooklyn, Connecticut Scale: 1" = 100' - Date: October, 1992 - Sheet 1 of 2 - Prepared by: Scott L. Neff". On file in the Brooklyn Land Records as Map #35.
- Subdivision Map prepared for Meehan Builders, LLC - Wolf Den Road - Brooklyn, Connecticut - Date: 11/01/2004 - Revised to: 3/01/2005 - Scale: 1" = 80' - Sheet 2 of 17 - Prepared by Provost & Rovero, Inc." Not on file.

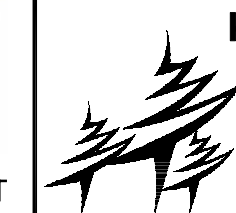
DATE	DESCRIPTION
08/14/2023	PER ENGINEERING REVIEW
07/31/2023	ADDED BOX CULVERTS
DATE	DESCRIPTION
REVISIONS	

GENERAL LOCATION SURVEY
DRIVEWAY CROSSING DESIGN PLAN
PREPARED FOR

RYAN KELLEHER

404 WOLF DEN ROAD
BROOKLYN, CONNECTICUT

Killingly Engineering Associates
Civil Engineering & Surveying



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

DATE: 5/24/2023	DRAWN: NET
SCALE: 1" = 40'	DESIGN: NET
SHEET: 1 OF 3	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 23057



EROSION AND SEDIMENT CONTROL NARRATIVE:

PRINCIPLES OF EROSION AND SEDIMENT CONTROL

The primary function of erosion and sediment controls is to absorb erosional energies and reduce runoff velocities that force the detachment and transport of soil and/or encourage the deposition of eroded soil particles before they reach any sensitive area.

KEEP LAND DISTURBANCE TO A MINIMUM

The more land that is in vegetative cover, the more surface water will infiltrate into the soil, thus minimizing stormwater runoff and potential erosion. Keeping land disturbance to a minimum not only involves minimizing the extent of exposure at any one time, but also the duration of exposure. Phasing, sequencing and construction scheduling are interrelated. Phasing divides a large project into distinct sections where construction work over a specific area occurs over distinct periods of time and each phase is not dependent upon a subsequent phase in order to be functional. A sequence is the order in which construction activities are to occur during any particular phase. A sequence should be developed on the premise of "first things first" and "last things last" with proper attention given to the inclusion of adequate erosion and sediment control measures. A construction schedule is a sequence with time lines applied to it and should address the potential overlap of actions in a sequence which may be in conflict with each other.

- Limit areas of clearing and grading. Protect natural vegetation from construction equipment with fencing, tree armoring, and retaining walls or tree wells.
- Route traffic patterns within the site to avoid existing or newly planted vegetation.
- Phase construction so that areas which are actively being developed at any one time are minimized and only that area under construction is exposed. Clear only those areas essential for construction.
- Sequence the construction of storm drainage systems so that they are operational as soon as possible during construction. Ensure all outlets are stable before outletting storm drainage flow into them.
- Schedule construction so that final grading and stabilization is completed as soon as possible.

SLOW THE FLOW

Detachment and transport of eroded soil must be kept to a minimum by absorbing and reducing the erosive energy of water. The erosive energy of water increases as the volume and velocity of runoff increases. The volume and velocity of runoff increases during development as a result of reduced infiltration rates caused by the removal of existing vegetation, removal of topsoil, compaction of soil and the construction of impervious surfaces.

- Use diversions, stone dikes, silt fences and similar measures to break flow lines and dissipate storm water energy.
- Avoid diverting one drainage system into another without calculating the potential for downstream flooding or erosion.

KEEP CLEAN RUNOFF SEPARATED

Clean runoff should be kept separated from sediment laden water and should not be directed over disturbed areas without additional controls. Additionally, prevent the mixing of clean off-site generated runoff with sediment laden runoff generated on-site until after adequate filtration of on-site waters has occurred.

- Segregate construction waters from clean water.
- Divert site runoff to keep it isolated from wetlands, watercourses and drainage ways that flow through or near the development until the sediment in that runoff is trapped or detained.

REDUCE ON SITE POTENTIAL INTERNALLY AND INSTALL PERIMETER CONTROLS

While it may seem less complicated to collect all waters to one point of discharge for treatment and just install a perimeter control, it can be more effective to apply internal controls to many small sub-drainage basins within the site. By reducing sediment loading from within the site, the chance of perimeter control failure and the potential off-site damage that it can cause is reduced. It is generally more expensive to correct off-site damage than it is to install proper internal controls.

- Control erosion and sedimentation in the smallest drainage area possible. It is easier to control erosion than to contend with sediment after it has been carried downstream and deposited in unwanted areas.
- Direct runoff from small disturbed areas to adjoining undisturbed vegetated areas to reduce the potential for concentrated flows and increase settlement and filtering of sediments.
- Concentrated runoff from development should be safely conveyed to stable outlets using rip rapped channels, waterways, diversions, storm drains or similar measures.
- Determine the need for sediment basins. Sediment basins are required on larger developments where major grading is planned and where it is impossible or impractical to control erosion at the source. Sediment basins are needed on large and small sites when sensitive areas such as wetlands, watercourses, and streets would be impacted by off-site sediment deposition. Do not locate sediment basins in wetlands or permanent or intermittent watercourses. Sediment basins should be located to intercept runoff prior to its entry into the wetland or watercourse.

SEPTIC SYSTEM CONSTRUCTION NOTES

- The building, septic system and well shall be accurately staked in the field by a licensed Land Surveyor in the State of Connecticut, prior to construction.
- Topsail shall be removed and in the area of the primary leaching field scarified, prior to placement of septic fill. Septic fill specifications are as follows:
 - Max. percent of gravel (material between No. 4 & 3 inch sieves) = 45%

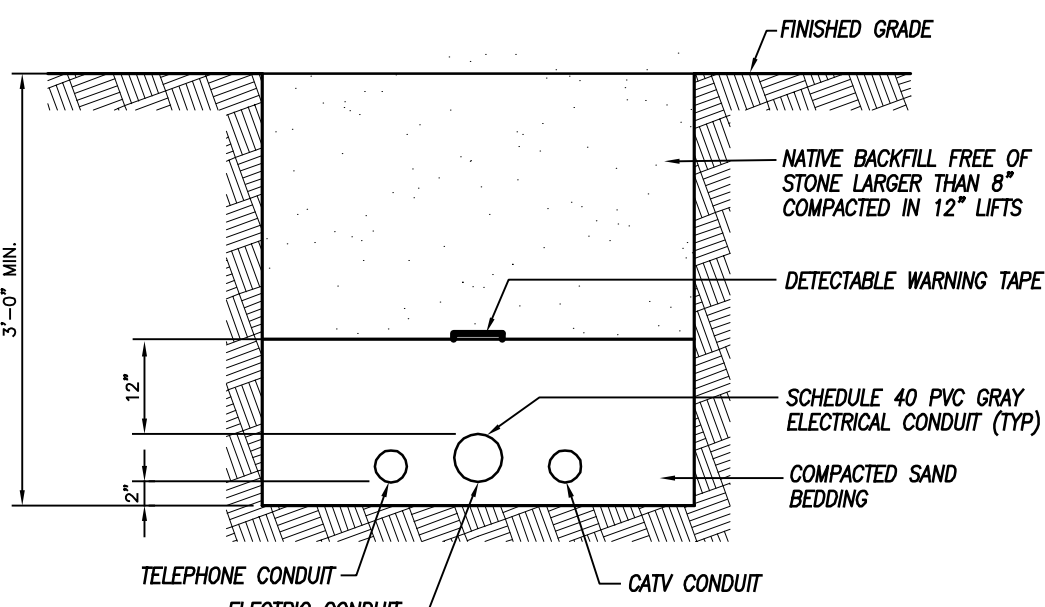
GRADATION OF FILL (MINUS GRAVEL)

SIEVE SIZE	PERCENT PASSING (WET SIEVE)	PERCENT PASSING (DRY SIEVE)
No. 10	100%	100%
No. 40	70% - 100%	70% - 100%
No. 100	10% - 50%	0% - 75%
No. 200	0% - 20%	0% - 5%
	0% - 5%	0% - 2.5%

Fill material shall be approved by the sanitarian prior to placement. It shall be compacted in 6" lifts and shall extend a minimum of five feet (5') around the perimeter of the system. Common fill shall extend an additional five feet (5') down gradient of the system (10' total) before tapering off at a maximum slope of 2H:1V.

- Septic tank shall be two compartment precast 1500 gallon tank with gas deflector and outlet filter as manufactured by Jolley Precast, Inc. or equal.
- Distribution boxes shall be 4 hole precast concrete as manufactured by Jolley Precast, Inc. or equal.
- All precast structures such as septic tanks, distribution boxes, etc. shall be set level on six inches (6") of compacted gravel base at the elevations specified on the plans.
- Solid distribution pipe shall be 4" diameter PVC meeting ASTM D-3034 SDR 35 with compression gasket joints. It shall be laid true to the lines and grades shown on the plans and in no case have a slope less than 0.125 inches per foot.
- Perforated distribution pipe shall be 4" diameter PVC meeting ASTM D-3034 or ASTM F1760 for SDR 35, or ASTM F810 for SDR 38.
- Sewer pipe from the foundation wall to the septic tank shall be schedule 40 PVC meeting ASTM D 1785. It shall be laid true to the grades shown on the plans and in no case shall have a slope less than 0.25 inches per foot.
- Solid footing drain outlet pipe shall be 4" Diameter PVC meeting ASTM D 3034, SDR 35 with compression gasketed joints. Footing drain outlet pipe shall not be backfilled with free draining material, such as gravel, broken stone, rock fragments, etc.
- Septic sand shall meet the requirements of ASTM C-33 with less than 10% passing a 100 sieve and less than 5% passing a 200 sieve

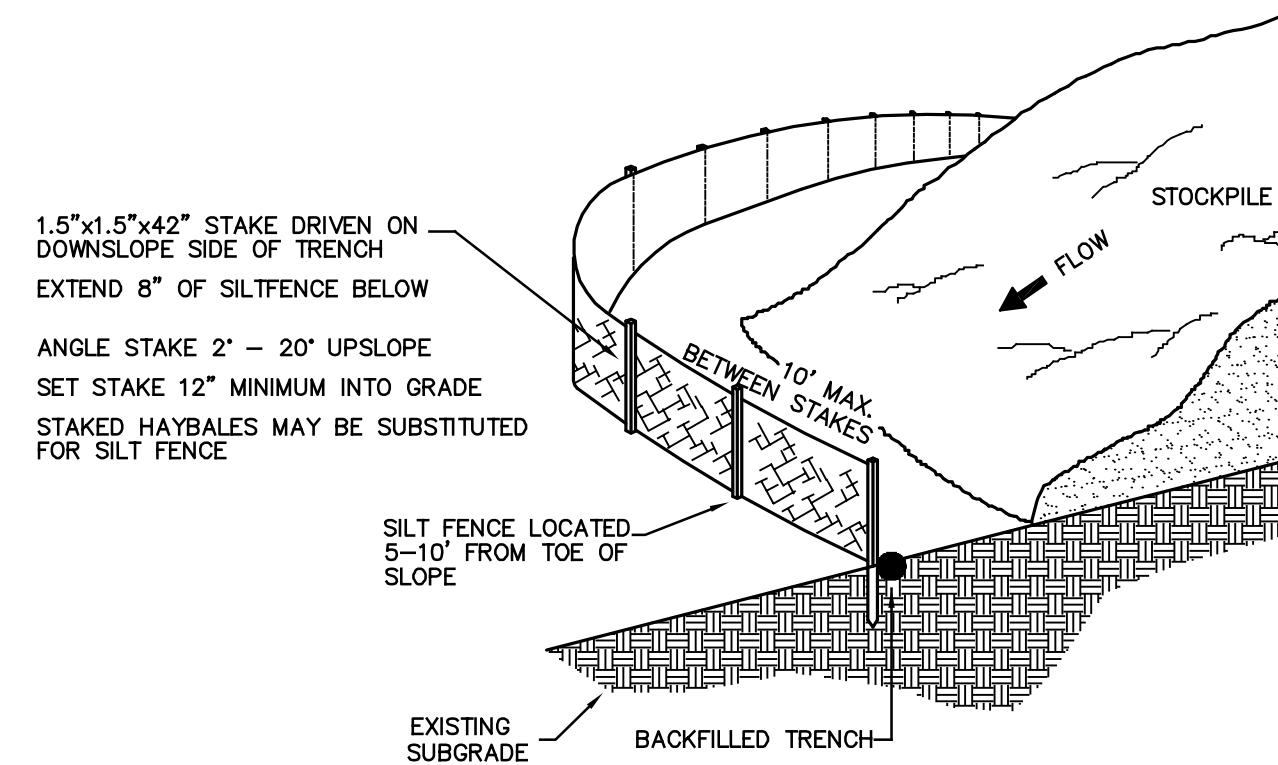
SIEVE SIZE	% PASSING
0.375	100
#4	95-100
#8	80-100
#16	60-85
#30	25-60
#50	10-30
#100	<10
#200	<5



NOTE: CONTRACTOR SHALL PROVIDE SILT/CLAY DAMS AT 100' INTERVALS ALONG PROPOSED UTILITY TRENCH TO AVOID TRANSPORTING INTERCEPTED WATER.

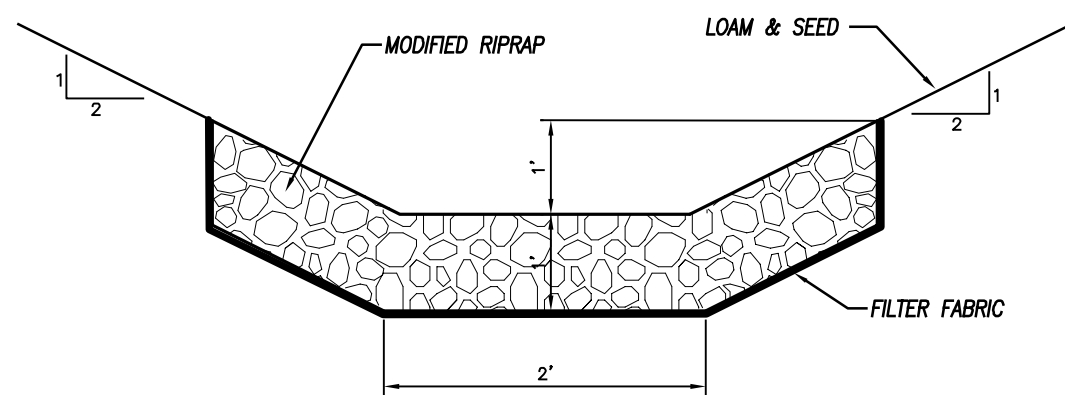
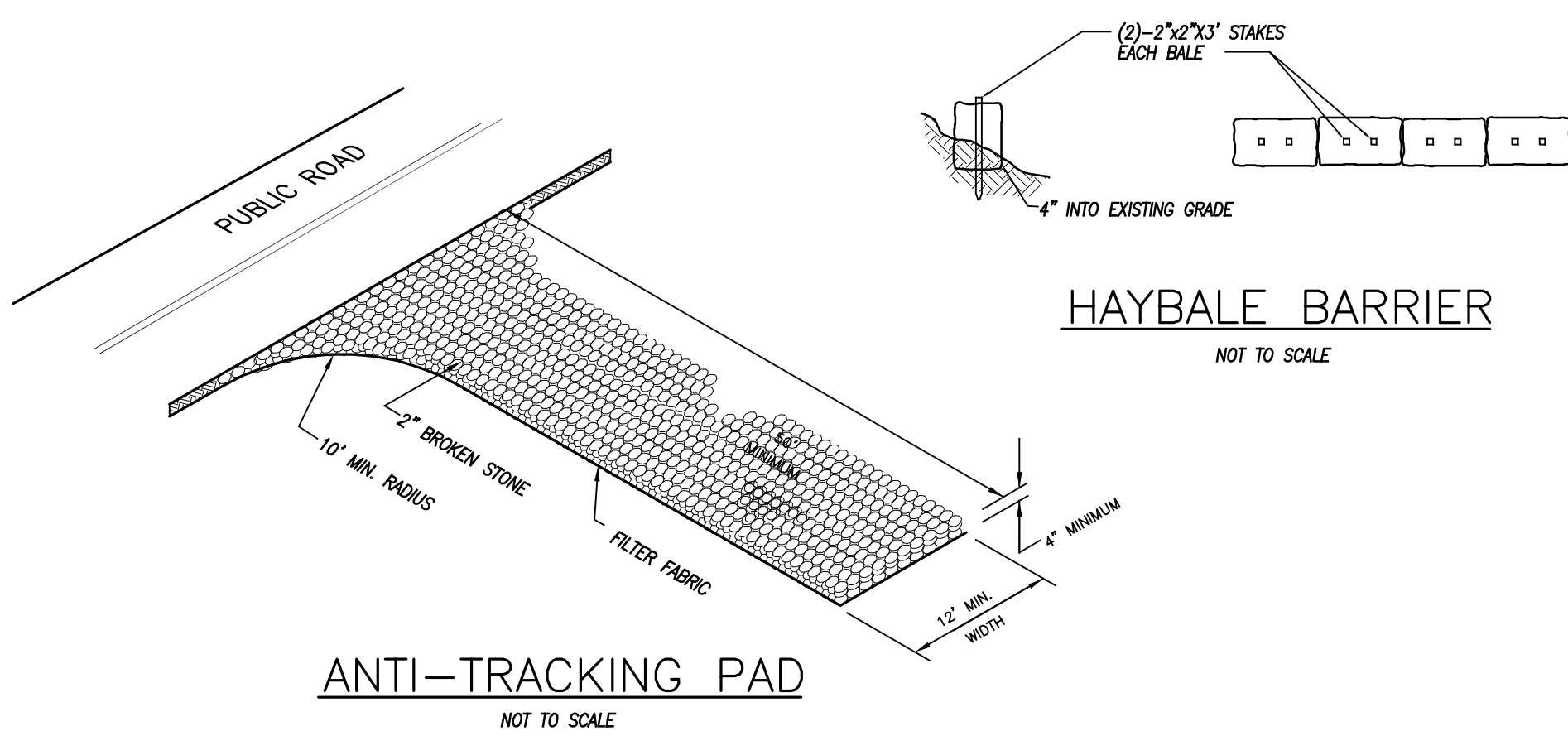
UNDERGROUND UTILITY TRENCH

NOT TO SCALE



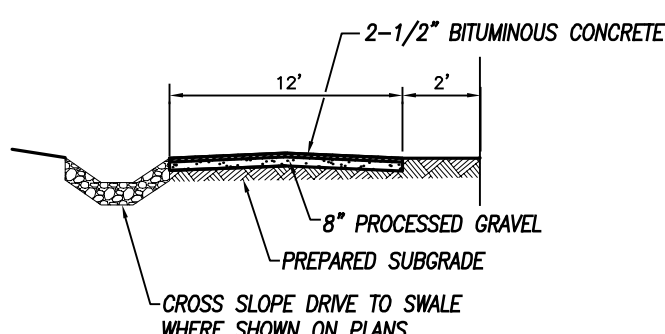
SILT FENCE @ TOE OF SLOPE APPLICATION

NOT TO SCALE



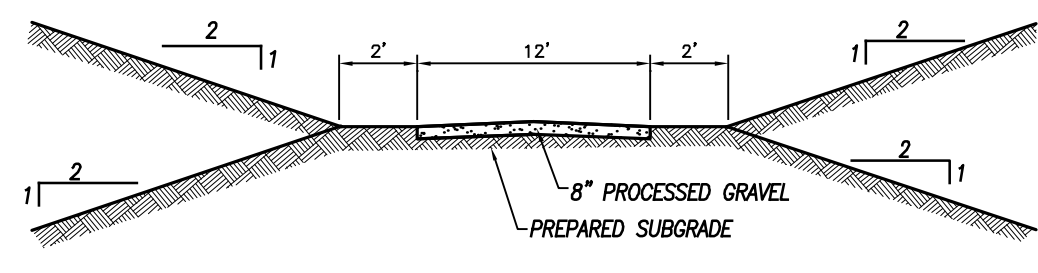
MODIFIED RIPRAP SWALE

NOT TO SCALE



PAVED DRIVE DETAIL

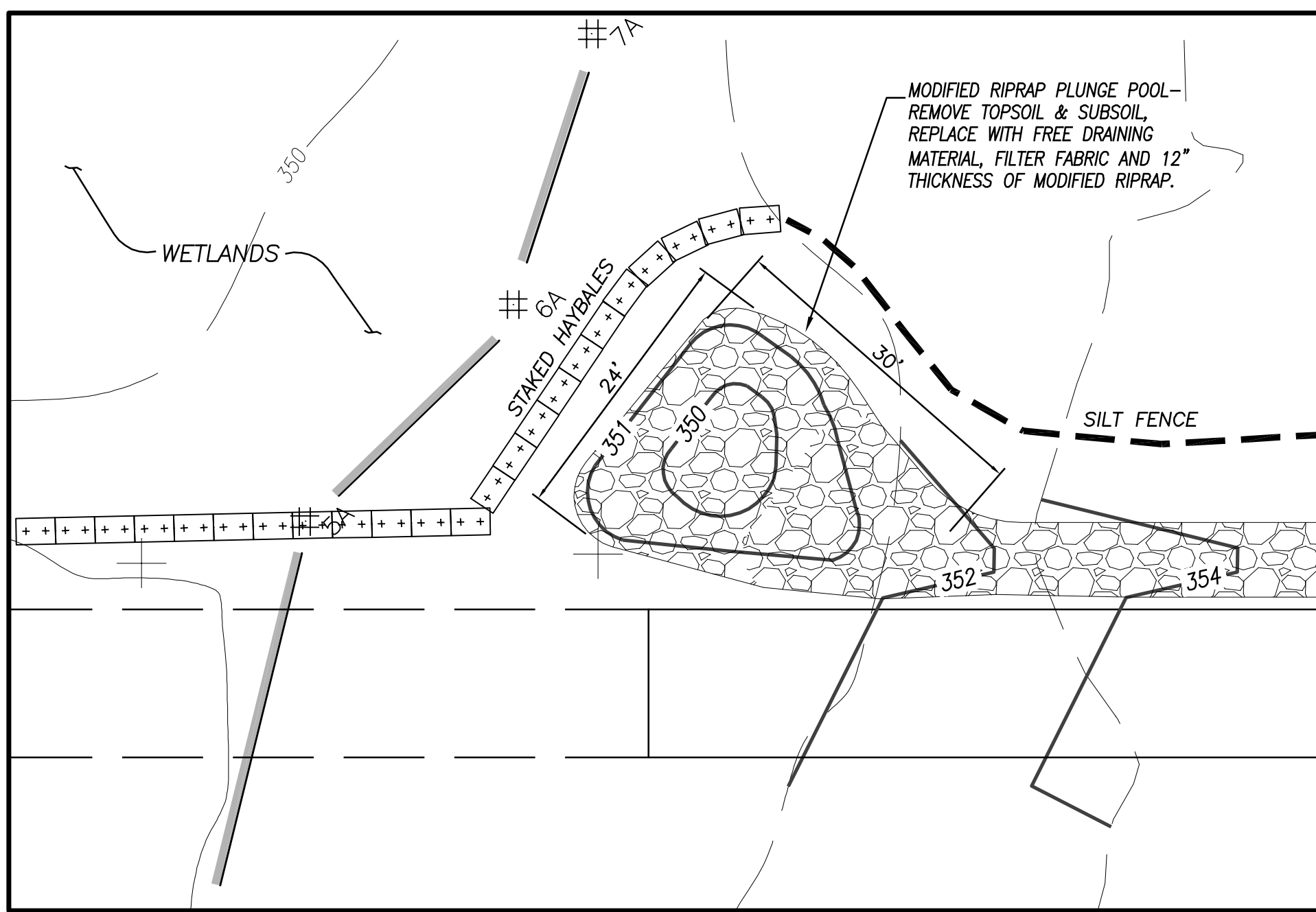
NOT TO SCALE



GRAVEL DRIVE DETAIL

NOT TO SCALE

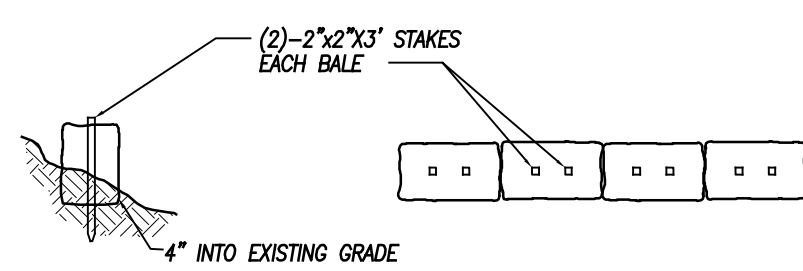
NOTE: IN AREAS OF WETLANDS CROSSINGS REMOVE ORGANIC MATERIALS AND REPLACE WITH BANK RUN GRAVEL TO STABILIZE SUBGRADE.



MODIFIED RIPRAP PLUNGE POOL DETAIL

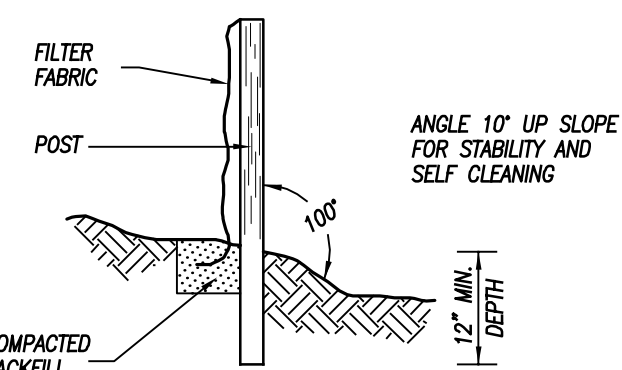
NOT TO SCALE

FREE DRAINING MATERIAL SHALL CONFORM TO ARTICLE M.02.07 OF CTDOT FORM 818



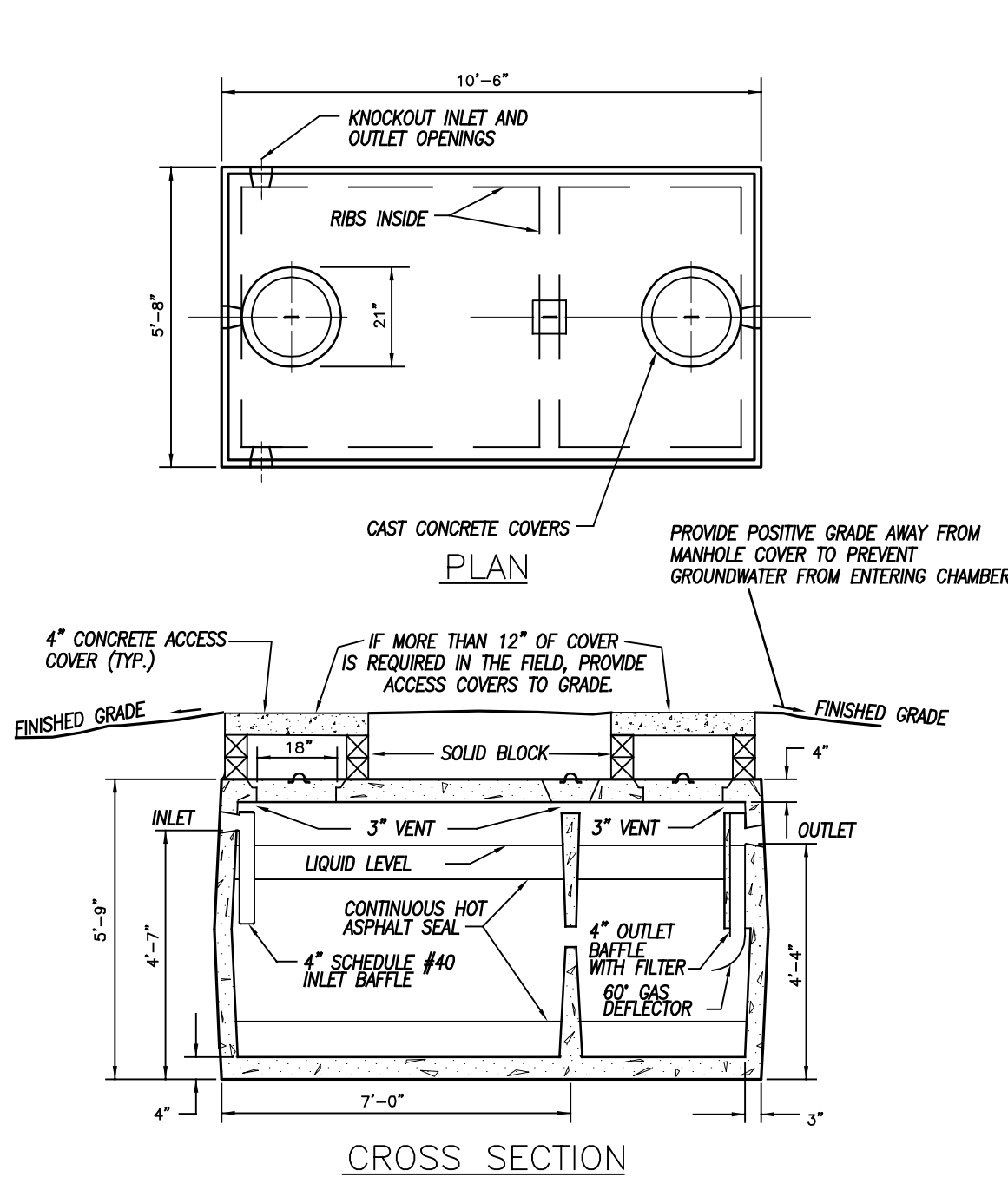
HAYBALE BARRIER

NOT TO SCALE



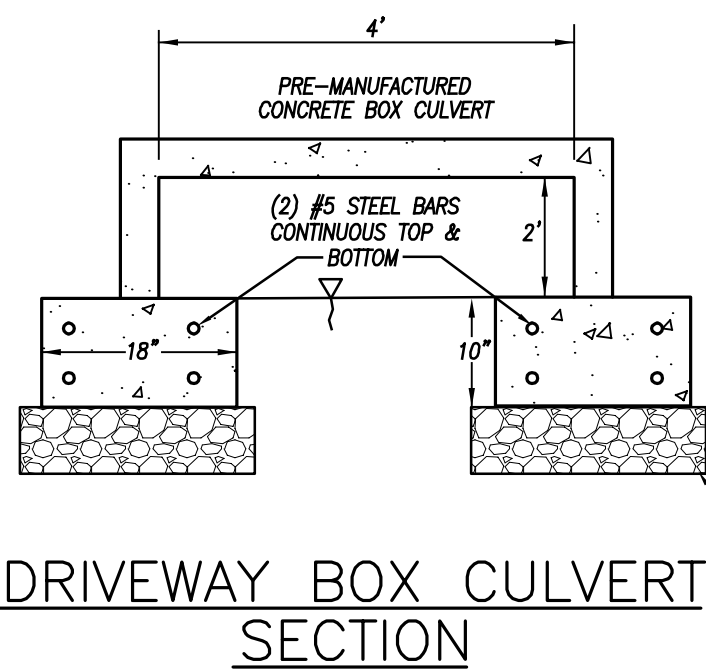
SILT FENCE

NOT TO SCALE

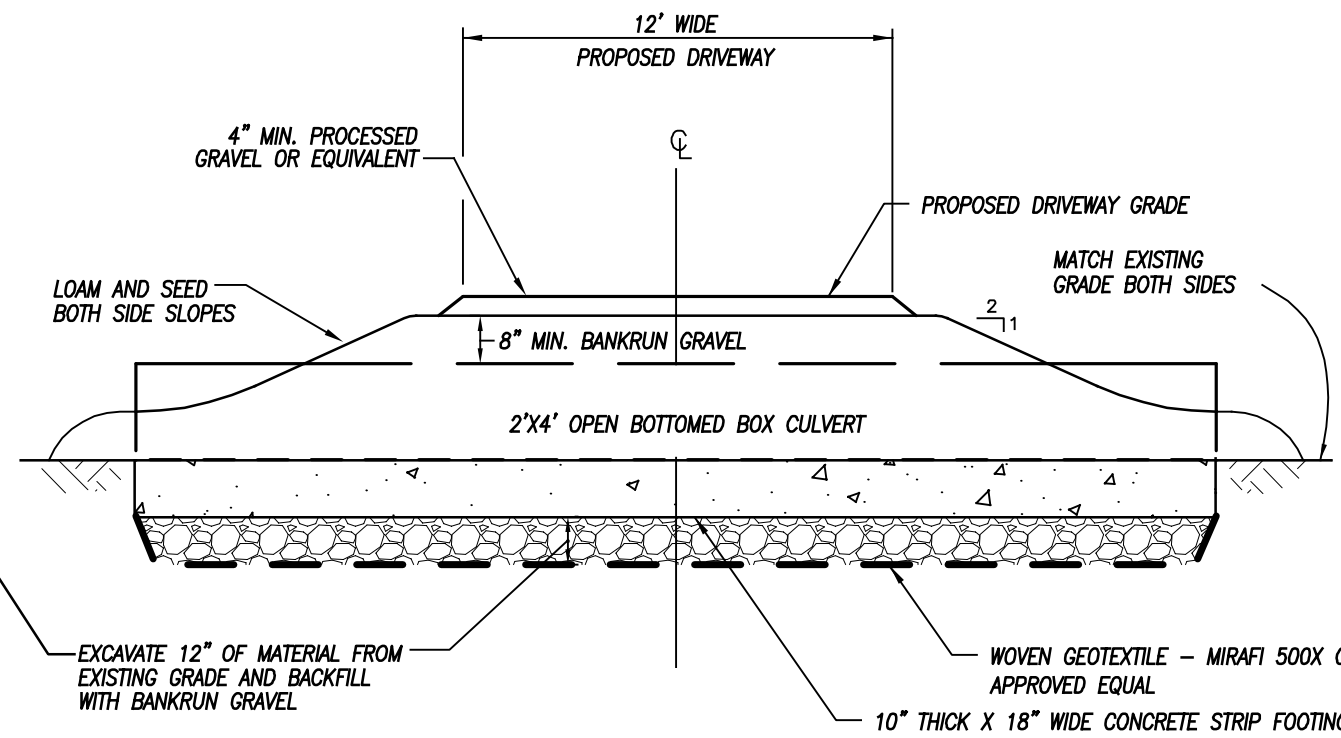


1500 GALLON 2 COMPARTMENT SEPTIC TANK

NOT TO SCALE



DRIVEWAY BOX CULVERT SECTION



NOTE: SEE SHEET 1 FOR BOX CULVERT INVERT ELEVATIONS

DATE	DESCRIPTION
08/14/2023	PER ENGINEERING REVIEW
07/31/2023	ADDED BOX CULVERTS
DATE	DESCRIPTION
	REVISIONS

DETAIL SHEET
PREPARED FOR

RYAN KELLEHER

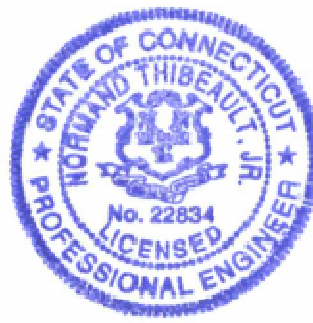
WOLF DEN ROAD
BROOKLYN, CONNECTICUT

Killingly Engineering Associates
Civil Engineering & Surveying



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

DATE: 5/24/2023	DRAWN: RGS
SCALE: NOT TO SCALE	DESIGN: NET
SHEET: 3 OF 3	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 23057



Norman Thibault, Jr.
NORMAND THIBAUT, JR., P.E. No. 22834 DATE 8/14/2023



NORTHEAST DISTRICT DEPARTMENT OF HEALTH

69 SOUTH MAIN STREET • UNIT 4 • BROOKLYN, CT 06234
PHONE (860) 774-7350 • FAX (860) 774-1308 • WEB SITE WWW.NDDH.ORG

August 23, 2023

Tripp Hollow Investments, LLC.
89 Wauregan Road
Brooklyn, CT 06234

SUBJECT: FILE #5005209 -- TRIPP HOLLOW ROAD #, MAP #14, LOT #10-1, BROOKLYN, CT

Dear Tripp Hollow Investments, LLC.:

The subject plan (KILLINGLY ENGINEERING ASSOCIATES, JOB# 16069, TRIPP HOLLOW INVESTMENTS, DRAWN 06/15/2023, REVISED 08/11/2023, REVISED 08/18/2023) submitted on 08/18/2023 has been reviewed, as requested. Following completion of this review, it has been determined that the subject plan will meet the requirements of the Technical Standards for a 3 bedroom house based on the following:

1. CT licensed surveyor must stake house, well, benchmark, and septic system, offset stakes to include flow line or bottom of trench elevation.
2. Permanent benchmark to be set within 50 feet horizontally and 12 feet vertically of septic system.
3. A bottom of excavation inspection is required once the topsoil and fill material have been removed.
4. A current sieve analysis of select fill material (within past 30 days) must be submitted to the Northeast District Department of Health (NDDH).
5. A set of house plans must be submitted prior to an Approval to Construct Permit being issued.
6. An engineer/surveyor's As-Built drawing (to include ties to the house) is to be submitted following the final inspection and approval of installation by NDDH.
7. Installer to schedule and be present for the final inspection with NDDH staff. Level to be set up for verification of elevations OR an Engineer's As Built will be required.

This letter is NOT to be construed as an APPROVAL TO CONSTRUCT the septic system and DOES NOT indicate that the Northeast District Department of Health endorses approval for issuance of any building permit.

Prior to the start of construction of the septic system, you must apply for your Approval to Construct Permit and submit the applicable fees to this office. A set of the floor plans of your house must be submitted to NDDH for review. Your CT licensed installer must come in to this department to sign for the permit if we do not have his signature on file. Office hours are Mon - Thurs 8 am - 4 pm, Fri 8 am - Noon.

THE OWNER IS RESPONSIBLE TO SEEK PROPER AUTHORIZATION FROM ALL TOWN AGENCIES PRIOR TO START OF CONSTRUCTION.

Should you have any questions, please do not hesitate to contact this office.

Sincerely,

Donovan Moe, EHS
Environmental Health Specialist-NDDH

cc: Brooklyn Building Official; Killingly Engineering Associates

Margaret Washburn

From: Greg Glaude <gglaude@killinglyea.com>
Sent: Thursday, August 24, 2023 10:19 AM
To: Margaret Washburn
Cc: Normand Thibeault
Subject: Kelliher --> Wolf Den Road, Brooklyn
Attachments: Kelliher PH sign.jpg

Hi Margaret,

The public hearing sign for Kelliher on Wolf Den Road was posted today. See attached photo.

Thanks.

Greg A. Glaude, L.S.

Killingly Engineering Associates
Civil Engineering & Surveying



www.killinglyengineering.com

Mailing Address:

P.O. Box 421

Dayville, CT 06241

Office Address:

114 Westcott Road

Danielson, CT 06239

Phone: 860-779-7299

Cell: 860-617-9998

Email: gglaude@killinglyea.com



Killingly Engineering Associates

Civil Engineering & Surveying



P.O. Box 421 Dayville, CT 06241
Phone: 860-779-7299

August 16, 2023

Ms. Margaret Washburn, WEO
Clifford B. Green Memorial Center
69 South Main Street
Brooklyn, CT 06234

Re: Proposed Driveway Wetlands Crossing, Wolf Den Road

Dear Margaret;

In response to review comments from Regional Engineer, Syl Pauley, P.E. on the referenced project, we offer the following:

Sheet 1 of 3 – Driveway Crossing Design Plan

1. The inlet and outlet inverts of the proposed box culverts have been more clearly defined as requested;
2. Additional haybale erosion controls have been added between the compensatory flood storage area and the adjacent wetlands;
3. A profile of the proposed driveway has been added to the plan;
4. A cross section for the proposed driveway has been added to the plan with elevations in relation to existing and proposed topography on the site.

Sheet 2 of 3 – Septic System Design Plan

1. State of Connecticut Public Health Code does not require anti-buoyancy measures for distribution boxes and/or septic tanks.

Sheet 3 of 3 – Detail Sheet

Inverts for each box culvert are shown on sheet 1 on the plans as well as a note specifying that they shall be installed at the locations and at the grades of the existing pipes;

The dimensions on the "Driveway Box Culvert" detail have been modified to shown interior dimensions of 4'x2'.

We trust that the revised plans have addressed all items and concerns accordingly. Please feel free to contact me if there are any further questions or concerns.

Sincerely;

Normand Thibeault, Jr., P.E.

NORTHEASTERN CONNECTICUT COUNCIL OF GOVERNMENTS

ENGINEERING REVIEW PERTAINING TO A PROPOSED DRIVEWAY CROSSING A WETLAND (ASSESSOR'S MAP 17, LOT 32-3) WOLF DEN DRIVE BROOKLYN, CT (October 5, 2022)

The comments contained herein pertain to my review of plans and supporting documentation, which is for the construction of a driveway across a wetland. The plans consisting of three (3) sheets were created by Killingly Engineering Associates, dated May 24, 2023 with revision date of July 31, 2023.

Sheet 1 of 3 – Driveway Crossing Design Plan

- ✓ 1. The inlet and outlet inverts of each box culvert need to be more clearly defined.
- ✓ 2. Hay bale erosion and sediment control system needs to be located between the "compensatory flood storage area" and the delineated wetland edge.
3. A profile of the proposed driveway across the wetland needs to be included on the plan showing where the existing 15" pipes are positioned and, the proposed culverts and finished elevations of the driveway wearing surface.
4. A cross-section of the driveway section needs to be added to the plan showing the extent of slopes into the wetland on each side of the driveway. Elevations shall be in relation to existing and proposed topography on the site plan.

Sheet 2 of 3 – Septic System Design Plan

1. Considering the seasonal high groundwater level indicated by mottling, were anti-buoyancy measures considered for the septic tank and distribution box to guard against flotation?

Sheet 3 of 3 – Detail Sheet

1. Inverts (in – out) for each box culvert need to be added to the "Driveway Box Culvert Detail."
2. The dimensions of the "Driveway Box Culvert Section" do not match the area (interior 4'x2') used to calculate flow in the Drainage Calculations. Which is correct?

Syl Pauley, Jr., P.E.

By: _____
Syl Pauley, Jr., P.E., NECCOG Regional Engineer

August 24, 2023

Dear Abutting Property Owner;

The Town of Brooklyn Inland Wetlands Commission will be holding a public hearing on Tuesday, September 12, 2023, at 6:00 PM via Webex or in person at the Brooklyn Community Center, 31 Tiffany Street, Upper Level, on the following matter:

***IWWC 23-006 of Ryan Kelleher** requesting permission to make improvements to an existing gravel driveway which will include wetlands impacts. The property located at 44 Wolf Den Road, Assessor's Map 18, Lot 22.*

All are invited to attend. The application and plans are available for viewing in the Town of Brooklyn Land Use Office.

Syl's email dated Aug. 21, 2023

Hi Margaret,

I have reviewed Killingly Engineering's revised plans of August 14, 2023 for 404 Wolf Den Drive and found the plans are modified in accordance with my review comments of August 2023. I now find the plans to be acceptable and have no further comments.

I would like to add that my review comments were mistakenly noted with a 2022 review date. The date should have read "August 8, 2023."

Syl

Fastest Growing Glass
Company in the Northeast



DANIELSON CT

J. FOX GLASS & MIRROR



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Qualified Individuals!

Mike Burdick, Owner

Cell: 860-933-6532

Email: michael@jfoxglass.com

Luke Walker, Owner

Cell: 860-377-1322



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A Licensed CT Auto Recycler.
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- MAY: Alexander's Lake 3 bed-
room furnished. Call for details:
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ST@08-02*TF

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& More! Specializing in Large
Quantities. Call ED'S GARAGE,
Inc., Canterbury. 860-546-9492
T@05-04-TF

HOW WOULD YOU LIKE TO LOVE WHAT YOU DO AND LOVE WHERE YOU WORK? Have you ever thought of being a caregiver or CNA or are you already one? Thornfield Hall in Thompson, CT could be your dream job! If you are a caregiver or CNA or have thought about being either, we would like to share Thornfield Hall with you! We have 11 amazing women at our residence who have intellectual disabilities. The position is referred to as a Direct Support Professional (DSP), CNA experience is a plus, but we will train the right person for the position. Our work environment is like a family, and we encourage laughter! It's a great group of women and staff who support them! The hours are either Saturday or Sunday or both shifts, 11:30am to 7:30pm. Email resume to: director@thornfield.org, or call Lindsey at 860-923-3099. Please do not come to the property to drop off a resume, ask a question or request an interview. We would appreciate that. YST@09-06

TOWN OF BROOKLYN INLAND WETLANDS AND WATERCOURSES COMMISSION PUBLIC HEARING NOTICE

The Brooklyn Inland Wetlands and Watercourses Commission will hold a public hearing, both in-person and via Zoom, on Tuesday, September 12, 2023, at 6:00 p.m. at a special meeting at 31 Tiffany Street, Upper Level, on the following:

IWWC 23-006 Ryan Kelleher. 404 Wolf Den Road, Map 18, Lot 22, RA Zone; Improvement of an existing gravel driveway through a wetland to construct a single-family home on 41 acres of land.

A copy of the application is available for review.

All interested parties may attend the meeting, be heard and written correspondence received.

Richard Oliverson, Chairman

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\$200-\$600 CASH PAID: For junk cars & trucks. Call Dave 860-756-6551 ¥ST@TF

FOR SALE: Brinkman Pitmaster Deluxe Grill / Smoker Charcoal \$100. (2) 48" round glass top tables \$40 each. (4) metal chairs with fine web back and seat \$20 each for outdoor use. All prices or best offer. 860-933-3678 ¥ST@09-06

LIVESTOCK: Cash paid for unwanted livestock; chickens, rabbits, goats, lambs, etc. 860-779-0212 ¥ST@09-13

1 ACRE INDUSTRIAL LOT FOR LEASE. Good for equipment storage. 860-564-2222¥ST@09-13

TOWN OF BROOKLYN INLAND WETLANDS AND WATERCOURSES COMMISSION PUBLIC HEARING NOTICE

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Richard Oliverson, Chairman

"Beginner"

LINE DANCE LESSONS

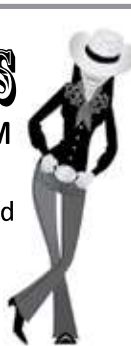
Starting Wed., Sept. 13 - 5:30-6:30PM

6 weeks \$40.00

482 Norwich Road, (Rte. 12) Plainfield

Other Classes Also Available

**Plainfield Rec Center Website
or Call 860-564-1819**



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LOOKING TO SELL CAMPFIRE WOOD FOR LABOR DAY WEEK-END. Very Cheap. Call Don 860-382-3343 ¥ST

KITTENS: 8 weeks old, 5 to choose from, & (1) 12 week old male tiger. Ready for a new home. Box trained. \$200 each. 860-207-1461 ¥ST

DUMP RUNS, Power Washing Demo. Odd Jobs. Call for a quote. 860-336-7732, 860-617-0039 ¥ST@09-06

2 GENTLE FERRETS FOR SALE: Kids lost interest, \$1200 invested. Yours for \$600. Includes cage, beds. Call 860-382-5071 ¥ST@09-06

FOR SALE: 2002 Honda Shadow Spirit 750cc Motorcycle. Perfect condition. 16,000 miles, garaged, windshield, saddlebags. \$3500. Call 860-315-5979 No texts ¥ST@09-06



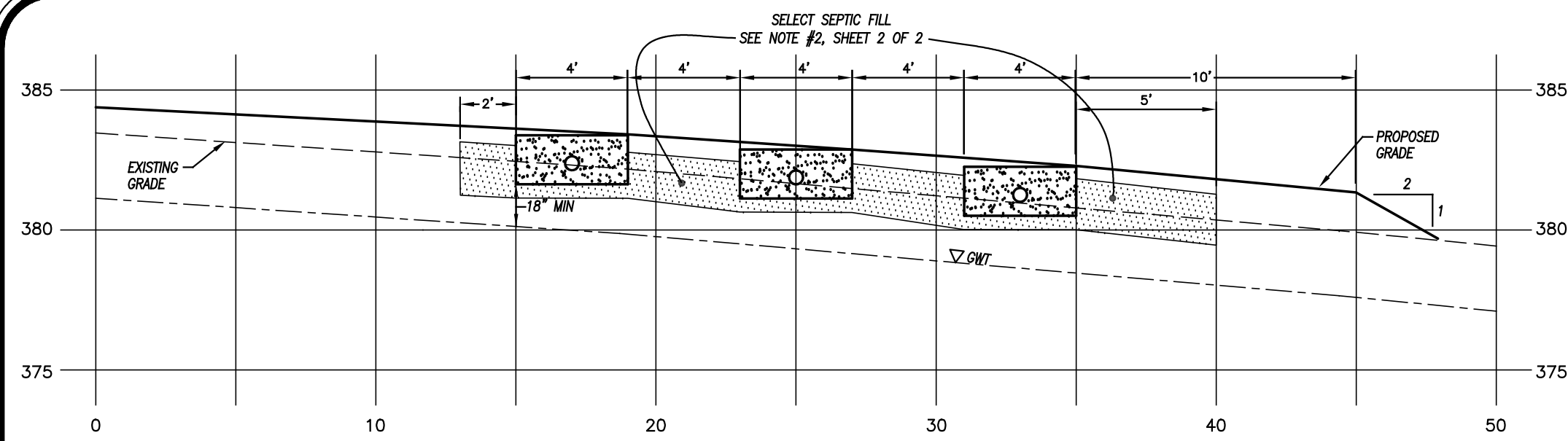
Earthworks Construction and Septic, LLC

Septic Pumping, Repair, Installation, Inspection,
Porta Jon Rentals

Paul (Waldo) Duquette, Owner/Operator
Licensed and Insured

8 Plum Road • North Grosvenordale, CT 06255

Call 860-428-1768 for all your septic needs
earthworks61@yahoo.com



CROSS SECTION "A-A"
SCALE: 1" = 5'

PERCOLATION TEST RESULT — August 09, 2023
NORTHEAST DISTRICT DEPARTMENT OF HEALTH.

HOLE A1	
Depth = 22"	Rate = 5.0 min./in.
Time	Reading
9:41	1.5"
9:48	8.5"
9:53	11"
9:58	12.5"
10:03	13.5"
10:08	14.5"
10:13	15.5"

SEPTIC SYSTEM DESIGN DATA

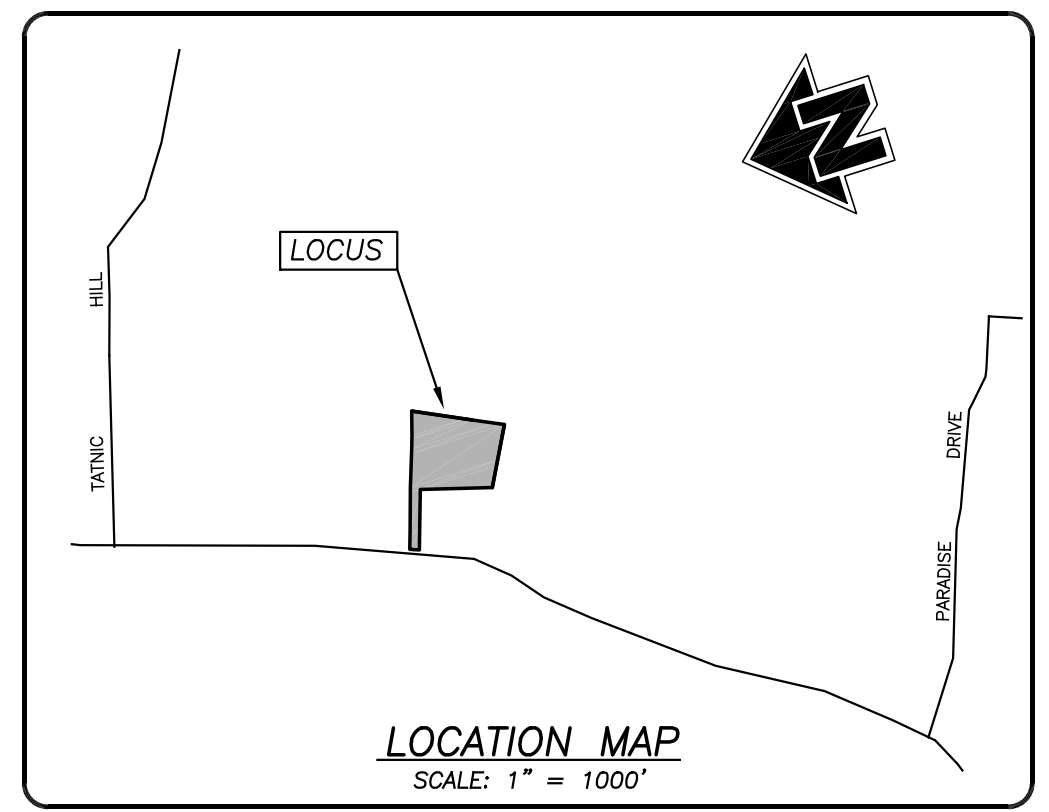
Percolation Rate	= 5.0 min. / in.
3 bedroom house requires	= 495 s.f. effective leaching area
Effective Leaching area	= 3 s.f. / l.f. of trench
Length Required	= 495/3 = 165 l.f.
Length Provided	= 3 (55') = 165 l.f.
Min. Leaching System Spread (MLSS)	= 26 x 1.5 x 1.0 = 39.0'
MLSS Provided	= 55'
LEACHING FIELD	
3 Trenches @ 55 l.f. each	
Maximum depth into existing grade	= 11"

DEEP TEST HOLE EVALUATION — January 7, 2004
Northeast District Department of Health

TEST PIT	DEPTH	PROFILE
11	0"-10" 10"-22" 22"-39" 39"-48" 48"-93" Ledge N/A GWT Mottling	Topsail Organics Roots V.F. Sandy Loam Roots F. Sandy Loam, Fine Roots Loamy Fine Sand/Gravel Compact Mottled Loamy V.F. Sand/Gravel Very Compact Mottles N/A N/A 30"
12	0"-10" 10"-24" 24"-32" 32"-39" 39"-52" 52"-85" Ledge N/A GWT Mottling	Topsail Roots Organics V.F. Sandy Loam Moist Roots F. Sandy Loam, Fine Roots, Mottles Loamy Sand/Gravel Mottled Loamy Sand/Gravel Stones Mottled Sand/Gravel Rocky Mottled Very Compact N/A N/A 29"

DEEP TEST HOLE EVALUATION — August 09, 2023
Northeast District Department of Health

TEST PIT	DEPTH	PROFILE
A	0"-12" 12"-32" 32"-46" 46"-52" 52"-94" Ledge N/A GWT Mottling Roots Restrictive	Topsail/Organics Fine Sandy Loam Mod. Compact Gray Loamy Fine Sand Pocket of Silty Loam Compact Loamy Sand, Hardpan N/A N/A 52" 26" 32"



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, Amended 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", "V-2" vertical accuracy.
- Survey Type: General Location Survey.

- Zone = RA.
- Owner of record: Tripp Hollow Investments, LLC
89 Wauregan Road, Brooklyn, CT 06234
- Parcel shown is as Lot #10-1 on Assessors Map #14.
- Parcel lies within Flood Hazard Zone "C" (areas of minimal flooding as shown on FIRM Map # 090164 Panel 0008A Effective date: Jan. 3, 1985.
- Northeast District Department of Health file number: 04003693.
- Elevations based on National Geodetic Vertical Datum of 1929. Contours taken from aerial photogrammetry and supplemented with actual field survey. Contour interval = 2'.
- Wetlands shown were flagged in the field by Joseph Therous, Certified Soil Scientist in August 2023.
- Before any construction is to commence contact "CALL BEFORE YOU DIG" at 1-800-922-4455.

MAP REFERENCES:

- "Subdivision Map - prepared for - Meehan Builders, LLC - Tripp Hollow Road - Brooklyn, Connecticut - Scale: 1" = 80' - Dated: 3/11/2004 Revised to: 12/14/2004 - Provost & Rovero, Inc." On file in the Brooklyn Land Records.
- "Property Survey - Showing Boundary Line Adjustment - Between - Lots 1 & 4 Prepared for - Meehan Builders, LLC - Tripp Hollow Road - Brooklyn Brooklyn, Connecticut - Scale: 1" = 80' - Dated: 6/21/2005 - Prepared by: Provost & Rovero, Inc." On file in the Brooklyn Land Records.

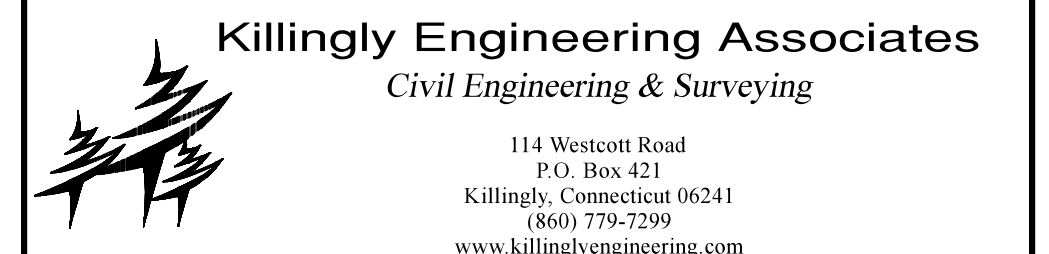
DATE	DESCRIPTION
8/23/2023	WETLANDS DELINEATION FROM 2023 ADDED
8/18/2023	PER NDDH REVIEW
8/11/2023	TEST PIT DATA/SEPTIC SYSTEM
DATE	DESCRIPTION
REVISIONS	

GENERAL LOCATION SURVEY
SEPTIC SYSTEM DESIGN PLAN - LOT 1

PREPARED FOR

TRIPP HOLLOW
INVESTMENTS, LLC

TRIPP HOLLOW ROAD
BROOKLYN, CONNECTICUT



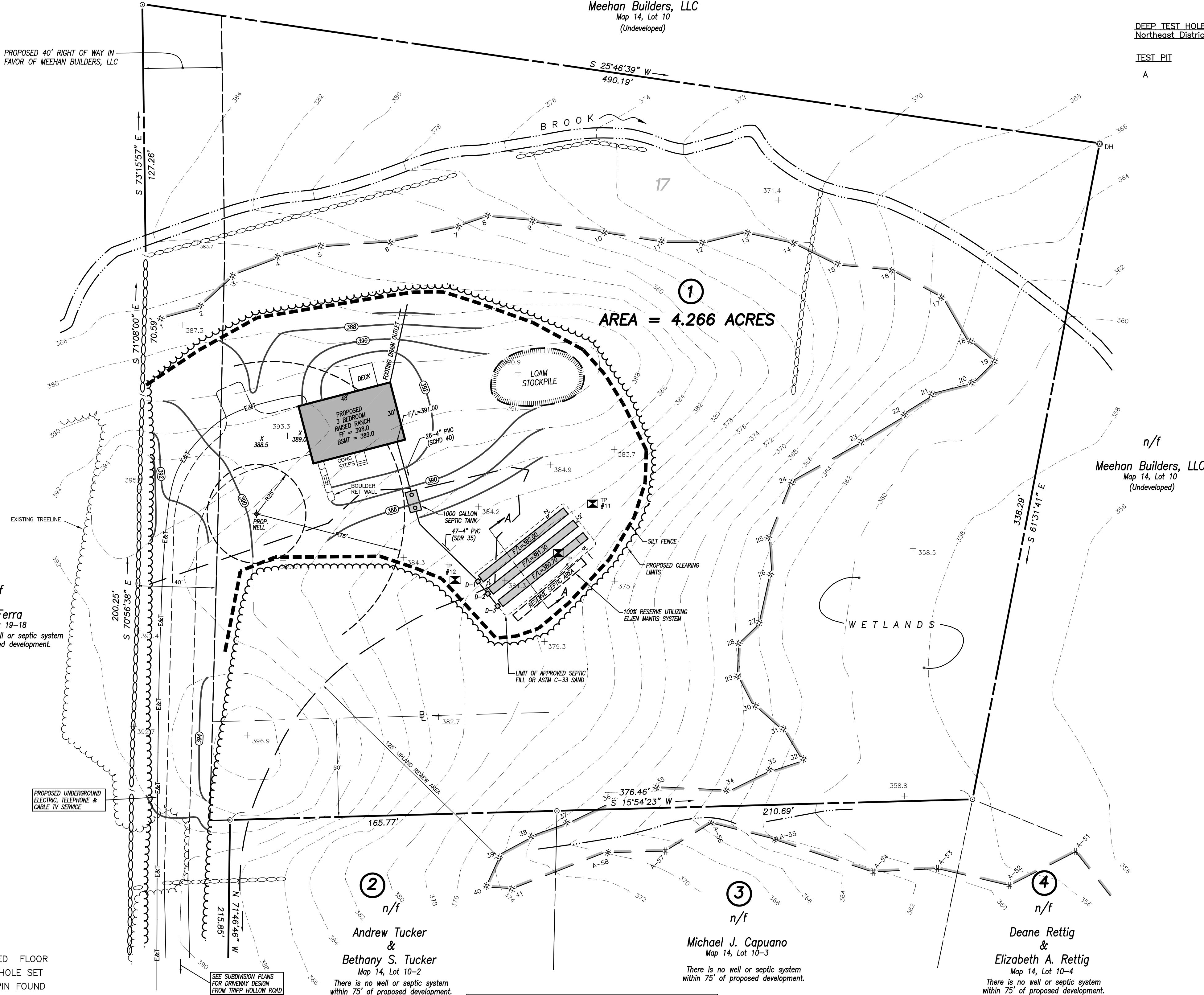
DATE: 6/15/2023	DRAWN: AMR
SCALE: 1" = 30'	DESIGN: NET
SHEET: 1 OF 2	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 16069

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 E. THIBEAULT, JR., P.E. DATE



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

SEPTIC TANK
1000 GALLON TWO COMPARTMENT F/L IN = 386.25 F/L OUT = 386.00
DISTRIBUTION BOXES
D-1 (OVERFLOW) F/L IN = 382.17 F/L OUT = 382.00 OVERFLOW = 382.25
D-2 (OVERFLOW) F/L IN = 381.47 F/L OUT = 381.30 OVERFLOW = 381.55
D-3 (STANDARD) F/L IN = 380.67 F/L OUT = 380.70

LEGEND

F.F.	FINISHED FLOOR
○ DH	DRILL HOLE SET
○	IRON PIN FOUND
---	EXISTING CONTOURS
---	PROPOSED CONTOURS
---	INLAND WETLANDS FLAG
---	BUILDING SETBACK LINE
○	PERCOLATION TEST HOLE
○	TEST HOLE
○	STONE WALL
---	SILT FENCE

ENDORSED BY THE BROOKLYN INLAND
WETLANDS COMMISSION

CHAIRMAN DATE

ANY CHANGES TO THESE PLANS WITHIN 200' OF
WETLANDS OR WATERCOURSES MUST BE RESUBMITTED
TO THE BROOKLYN INLAND WETLANDS COMMISSION.

THE APPLICANT WILL CONTACT THE BROOKLYN INLAND
WETLANDS COMMISSION OR ITS AGENT AFTER ALL
EROSION AND SEDIMENT CONTROL MEASURES ARE
INSTALLED, PRIOR TO ANY CONSTRUCTION OR EXCAVATION
ON THE PROPERTY.

EROSION AND SEDIMENT CONTROL PLAN:

REFERENCE IS MADE TO:

- Connecticut Guidelines for Soil Erosion and Sediment Control 2002 (2002 Guidelines).
- Soil Survey of Windham County Connecticut, U.S.D.A. Soil Conservation Service 1983.

SOILS:

The proposed development area is comprised mainly of three soil types; Timakwa and Natahaug (17), Sutton (52C) and Gloucester (59D)

- Timakwa and Natahaug soils, 0-2% slopes

Included with these soils in mapping are areas of very poorly drained Cadden soils where the muck is more than 51 inches thick over mineral substratum. Also included are areas of very poorly drained Whitman, Menlo, Scarborough, Maybld, and Saco soils. Whitman and Menlo soils formed in loamy glacial till. Scarborough soils are sandy and Maybld soils are silty and clayey. Saco soils are on flood plains and are silty. Minor components make up about 15 percent of the map unit
Slope: nearly level
Landscape: depressions
Size of map unit: Areas commonly range from 3 to 150 acres.

- 52C Sutton fine sandy loam, 2 to 15 percent slopes, extremely stony

Included with this soil in mapping are areas of moderately well drained Canton, Charlton, and Paxton soils that are higher on the landscape. Canton soils are loamy over sandy, Charlton soils are sandy loam throughout, and Paxton soils have a dense substratum. Also included are small areas of poorly drained Leicester soils in depressions and drainageways. Small areas of moderately well drained Woodbridge soils are included in areas with a dense substratum. Some areas have a silt loam surface layer and subsoil. A few areas in New London County include well drained Narragansett soils and moderately well drained Rainbow soils. Minor components make up about 20 percent of this map unit.
Slope: nearly level to strongly sloping
Landscape: drainageways on uplands, depressions on uplands
Surface cover: 3 to 15 percent stones
Size of map unit: Areas commonly range from 3 to 50 acres.

- 59D—Gloucester gravelly sandy loam, 15 to 35 percent slopes, extremely stony

Included with these soils in mapping are areas of moderately well drained Sutton soils in slight depressions on the landscape, and poorly drained Leicester soils in depressions and drainageways. Also included are areas of moderately deep, somewhat excessively drained and well drained Chaffield soils where bedrock is 20 to 40 inches below the surface. Shallow, somewhat excessively drained and well drained Hollis soils are in small areas where bedrock is 10 to 20 inches below the surface. Minor components make up about 20 percent of the map unit.

DEVELOPMENT SCHEDULE:

- Construction will begin with clearing, grubbing and rough grading of the proposed site. The work will be confined to areas adjacent to the proposed buildings, septic systems and driveways. Topsoil will be utilized during final grading.

- The site will be graded so that all possible trees on site will be saved to provide buffers to adjoining lots.

DEVELOPMENT CONTROL PLAN:

- Development of the site will be performed by the individual lot owner, who will be responsible for the installation and maintenance of erosion and sediment control measures required throughout construction.
- The sedimentation control mechanisms shall remain in place from start of construction until permanent vegetation has been established. The representative for the Town of Brooklyn will be notified when sediment and erosion control structures are initially in place. Any additional soil & erosion control measures requested by the Town or its agent, shall be installed immediately. Once the proposed development, seeding and planting have been completed, the representative shall again be notified to inspect the site. The control measures will not be removed until this inspection is complete.
- All stripping is to be confined to the immediate construction area. Topsoil shall be stockpiled so that slopes do not exceed 2 to 1. A hay bale sediment barrier is to surround each stockpile and a temporary vegetative cover shall be provided.
- Dust control will be accomplished by spraying with water and if necessary, the application of calcium chloride.
- The proposed planting schedule is to be adhered to during the planting of disturbed areas throughout the proposed construction site.
- Final stabilization of the site is to follow the procedures outlined in "Permanent Vegetative Cover", if necessary a temporary vegetative cover is to be provided until a permanent cover can be applied.

FILTER BARRIER INSTALLATION AND MAINTENANCE:

- Dig a 6" deep trench on the uphill side of the barrier location.
- Position the posts on the downhill side of the barrier and drive the posts 1.5 feet into the ground.
- Lay the bottom 6" of the fabric in the trench to prevent undermining and backfill.
- Inspect and repair barrier after heavy rainfall.
- Inspections will be made at least once per week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater to determine maintenance needs.
- Sediment deposits are to be removed when they reach a height of 1 foot behind the barrier or half the height of the barrier and are to be deposited in an area which is not regulated by the Inland Wetlands Commission.
- Replace or repair the fence within 24 hours of observed failure. Failure of the fence has occurred when sediment fails to be retained by the fence because:
 - the fence has been overtopped, undercut or bypassed by runoff water,
 - the fence has been moved out of position (knocked over), or
 - the geotextile has decomposed or been damaged.

HAY BALE INSTALLATION AND MAINTENANCE:

- Bales shall be placed as shown on the plans with the ends of the bales tightly abutting each other.
- Each bale shall be securely anchored with at least 2 stakes and gaps between bales shall be wedged with straw to prevent water from passing between the bales.
- Inspect bales at least once per week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inches or greater to determine maintenance needs.
- Remove sediment behind the bales when it reaches half the height of the bale and deposit in an area which is not regulated by the Inland Wetlands Commission.
- Replace or repair the barrier within 24 hours of observed failure. Failure of the barrier has occurred when sediment fails to be retained by the barrier because:
 - the barrier has been overtopped, undercut or bypassed by runoff water,
 - the barrier has been moved out of position, or
 - the hay bales have deteriorated or been damaged.

TEMPORARY VEGETATIVE COVER:

SEED SELECTION

Grass species shall be appropriate for the season and site conditions. Appropriate species are outlined in Figure TS-2 in the 2002 Guidelines.

TIMING CONSIDERATIONS

Seed with a temporary seed mixture within 7 days after the suspension of grading work in disturbed areas where the suspension of work is expected to be more than 30 days but less than 1 year.

SITE PREPARATION

Install needed erosion control measures such as diversions, grade stabilization structures, sediment basins and grassed waterways.

Grade according to plans and allow for the use of appropriate equipment for seedbed preparation, seeding, mulch application, and mulch anchoring.

ENDORSED BY THE BROOKLYN INLAND
WETLANDS COMMISSION

CHAIRMAN DATE

ANY CHANGES TO THESE PLANS WITHIN 200' OF
WETLANDS OR WATERCOURSES MUST BE RESUBMITTED
TO THE BROOKLYN INLAND WETLANDS COMMISSION.

THE APPLICANT WILL CONTACT THE BROOKLYN INLAND
WETLANDS COMMISSION OR ITS AGENT AFTER ALL
EROSION AND SEDIMENT CONTROL MEASURES ARE
INSTALLED, PRIOR TO ANY CONSTRUCTION OR EXCAVATION
ON THE PROPERTY.

SEEDBED PREPARATION

Loosen the soil to a depth of 3-4 inches with a slightly roughened surface. If the area has been recently loosened or disturbed, no further roughening is required. Soil preparation can be accomplished by tracking with a bulldozer, disking, harrowing, raking or dragging with a section of chain link fence. Avoid excessive compaction of the surface by equipment traveling back and forth over the surface. If the slope is tracked, the cleat marks shall be perpendicular to the anticipated direction of the flow of surface water.

If soil testing is not practical or feasible on small or variable sites, or where timing is critical, fertilizer may be applied at the rate of 300 pounds per acre or 7.5 pounds per 1,000 square feet of 10-10-10 or equivalent. Additionally, lime may be applied using rates given in Figure TS-1 in the 2002 Guidelines.

SEEDING

Apply seed uniformly by hand cyclone seeder, drill, cultipacker type seeder or hydroseeder at a minimum rate for the selected species. Increase seeding rates by 10% when hydroseeding.

MULCHING

Temporary seedings made during optimum seeding dates shall be mulched according to the recommendations in the 2002 Guidelines. When seeding outside of the recommended dates, increase the application of mulch to provide 95%-100% coverage.

MAINTENANCE

Inspect seeded area at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater for seed and mulch movement and fill erosion.

Where seed has moved or where soil erosion has occurred, determine the cause of the failure. Repair eroded areas and install additional controls if required to prevent recurrence of erosion.

Continue inspections until the grasses are firmly established. Grasses shall not be considered established until a ground cover is achieved which is mature enough to control soil erosion and to survive severe weather conditions (approximately 80% vegetative cover).

PERMANENT VEGETATIVE COVER:

Refer to Permanent Seeding Measure in the 2002 Guidelines for specific applications and details related to the installation and maintenance of a permanent vegetative cover. In general, the following sequence of operations shall apply:

- Topsoil will be replaced once the excavation and grading has been completed. Topsoil will be spread at a minimum compacted depth of 4".
- Once the topsoil has been spread, all stones 2" or larger in any dimension will be removed as well as debris.
- Apply agricultural ground limestone at a rate of 2 tons per acre or 100 lbs. per 1000 s.f. Apply 10-10-10 fertilizer or equivalent at a rate of 300 lbs. per acre or 7.5 lbs. per 1000 s.f. Work lime and fertilizer into the soil to a depth of 4".
- Inspect seedbed before seeding. If traffic has compacted the soil, retilt compacted areas.
- Apply the chosen grass seed mix. The recommended seeding dates are: April 1 to June 15 & August 15 - October 1.
- Following seeding, firm seedbed with a roller. Mulch immediately following seeding. If a permanent vegetative stand cannot be established by September 30, apply a temporary cover on the topsoil such as netting, mat or organic mulch.

EROSION AND SEDIMENT CONTROL NARRATIVE:

PRINCIPLES OF EROSION AND SEDIMENT CONTROL

The primary function of erosion and sediment controls is to absorb erosional energies and reduce runoff velocities that force the detachment and transport of soil and/or encourage the deposition of eroded soil particles before they reach any sensitive area.

KEEP LAND DISTURBANCE TO A MINIMUM

The more land that is in vegetative cover, the more surface water will infiltrate into the soil, thus minimizing stormwater runoff and potential erosion. Keeping land disturbance to a minimum not only involves minimizing the extent of exposure at any one time, but also the duration of exposure. Phasing, sequencing and construction scheduling are interrelated. Large project areas are divided into distinct sections where construction work over a specific area occurs over distinct periods of time and each phase is not dependent upon a subsequent phase in order to be functional. A sequence is the order in which construction activities are to occur during any particular phase. A sequence should be developed on the premise of "first things first" and "last things last" with proper attention given to the inclusion of adequate erosion and sediment control measures. A construction schedule is a sequence with time lines applied to it and should address the potential overlap of actions in a sequence which may be in conflict with each other.

- Limit areas of clearing and grading. Protect natural vegetation from construction equipment with fencing, tree armoring, and retaining walls or tree wells.
- Route traffic patterns within the site to avoid existing or newly planted vegetation.
- Phase construction so that areas which are actively being developed at any one time are minimized and only that area under construction is exposed. Clear only those areas essential for construction.
- Sequence the construction of storm drainage systems so that they are operational as soon as possible during construction. Ensure all outlets are stable before outletting storm drainage flow into them.
- Schedule construction so that final grading and stabilization is completed as soon as possible.

SLOW THE FLOW

Detachment and transport of eroded soil must be kept to a minimum by absorbing and reducing the erosive energy of water. The erosive energy of water increases as the volume and velocity of runoff increases. The volume and velocity of runoff increases during development as a result of reduced infiltration rates caused by the removal of existing vegetation, removal of topsoil, compaction of soil and the construction of impervious surfaces.

- Use diversions, stone dikes, silt fences and similar measures to break flow lines and dissipate storm water energy.
- Avoid diverting one drainage system into another without calculating the potential for downstream flooding or erosion.

KEEP CLEAN RUNOFF SEPARATED

Clean runoff should be kept separated from sediment laden water and should not be directed over disturbed areas without additional controls. Additionally, prevent the mixing of clean off-site generated runoff with sediment laden runoff generated on-site until after adequate filtration of on-site waters has occurred.

- Segregate construction waters from clean water.
- Divert site runoff to keep it isolated from wetlands, watercourses and drainage ways that flow through or near the development until the sediment in that runoff is trapped or detained.

REDUCE ON SITE POTENTIAL INTERNALLY AND INSTALL PERIMETER CONTROLS

While it may seem less complicated to collect all waters to one point of discharge for treatment and just install a perimeter control, it can be more effective to apply internal controls to many small sub-drainage basins within the site. By reducing sediment loading from within the site, the chance of perimeter control failure and the potential off-site damage that it can cause is reduced. It is generally more expensive to correct off-site damage than it is to install proper internal controls.

- Control erosion and sedimentation in the smallest drainage area possible. It is easier to control erosion than to contend with sediment after it has been carried downstream and deposited in unwanted areas.
- Direct runoff from small disturbed areas to adjoining undisturbed vegetated areas to reduce the potential for concentrated flows and increase settlement and filtering of sediments.
- Concentrated runoff from development should be safely conveyed to stable outlets using rip rapped channels, waterways, diversions, storm drains or similar measures.
- Determine the need for sediment basins. Sediment basins are required on larger developments where major grading is planned and where it is impossible or impractical to control erosion at the source. Sediment basins are needed on large and small sites when sensitive areas such as wetlands, watercourses, and streets would be impacted by off-site sediment deposition. Do not locate sediment basins in wetlands or permanent or intermittent watercourses. Sediment basins should be located to intercept runoff prior to its entry into the wetland or watercourse.
- Grade and landscape around buildings and septic systems to divert water away from them.

SEPTIC SYSTEM CONSTRUCTION NOTES

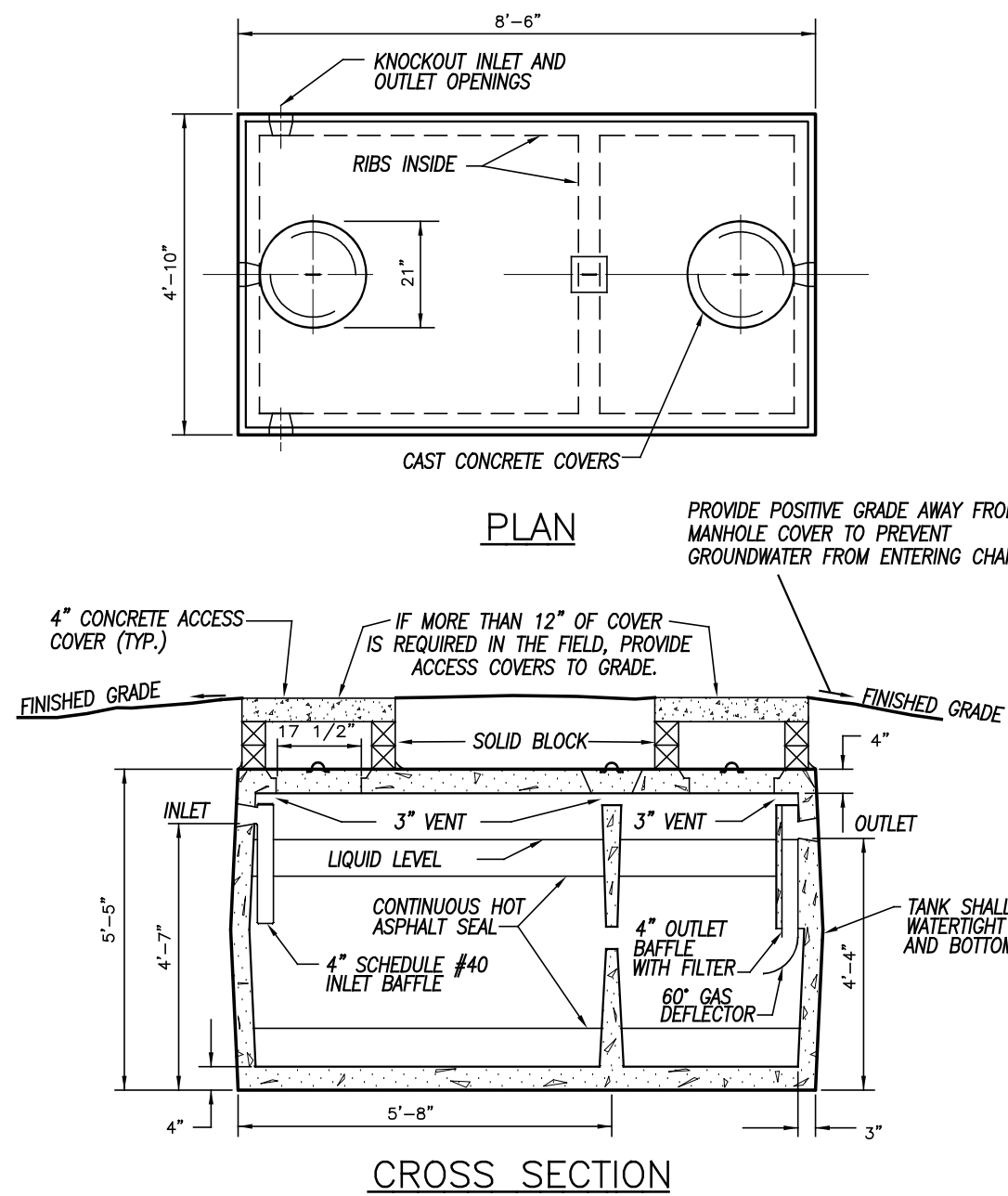
- The building, septic system and well shall be accurately staked in the field by a licensed Land Surveyor in the State of Connecticut, prior to construction.
- Topsoil shall be removed and in the area of the primary leaching field scarified, prior to placement of septic fill. Septic fill specifications are as follows:
 - Max. percent of gravel (material between No. 4 & 3 inch sieves) = 45%

GRADATION OF FILL (MINUS GRAVEL)

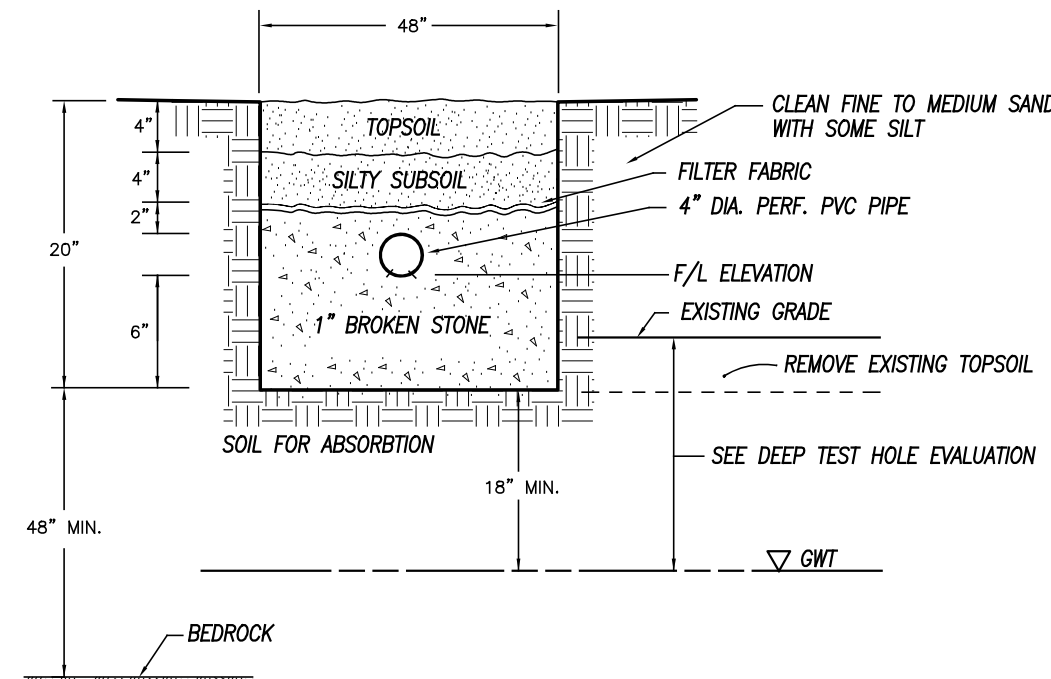
SIEVE SIZE	PERCENT PASSING (WET SIEVE)	PERCENT PASSING (DRY SIEVE)
No. 4	100%	100%
No. 10	70% - 100%	70% - 100%
No. 40	10% - 50%	10% - 75%
No. 100	0% - 20%	0% - 5%
No. 200	0% - 5%	0% - 2.5%

Fill material shall be approved by the sanitarian prior to placement. It shall be compacted in 6" lifts and shall extend a minimum of ten feet (10') beyond the last leaching trench before tapering off.

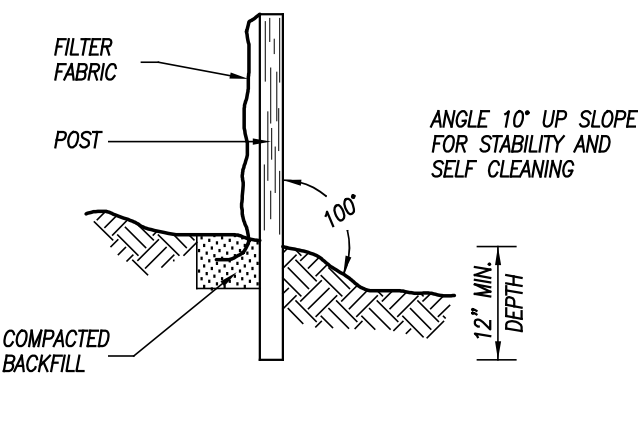
- Septic tank shall be two compartment precast 1000 gallon tank with gas deflector and outlet filter as manufactured by Jolley Precast, Inc. or equal.
- Distribution boxes shall be 4 hole precast concrete as manufactured by Jolley Precast, Inc. or equal.
- All precast structures such as septic tanks, distribution boxes, etc. shall be set level on six inches (6") of compacted gravel base at the elevations specified on the plans.
- Solid distribution pipe shall be 4" diameter PVC meeting ASTM D-3034 SDR 35 with compression gasket joints. It shall be laid true to the lines and grades shown on the plans and in no case have a slope less than 0.125 inches per foot.
- Perforated distribution pipe shall be 4" diameter PVC meeting ASTM D-2729 or ASTM D-3350, 1500 lb. minimum crush.
- Sewer pipe from the foundation wall to the septic tank shall be schedule 40 PVC meeting ASTM D 1785. It shall be laid true to the grades shown on the plans and in no case shall have a slope less than 0.25 inches per foot.
- Force main pressure pipe from pump chamber to the leaching field shall be 2" diameter pvc meeting ASTM D 2241 SDR 21.
- Solid footing drain outlet pipe shall be 4" Diameter PVC meeting ASTM D 3034, SDR 35 with compression gasketed joints. Footing drain outlet pipe shall not be backfilled with free draining material, such as gravel, broken stone, rock fragments, etc.



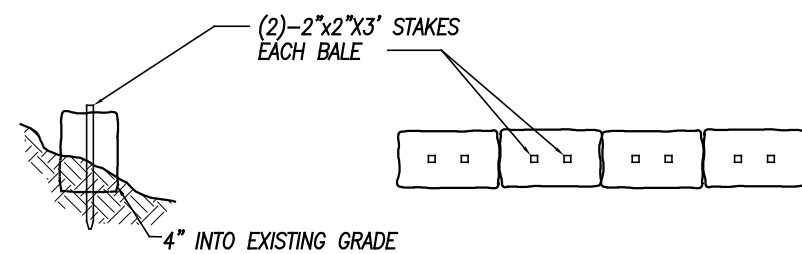
1000 GALLON
2 COMPARTMENT
SEPTIC TANK
NOT TO SCALE



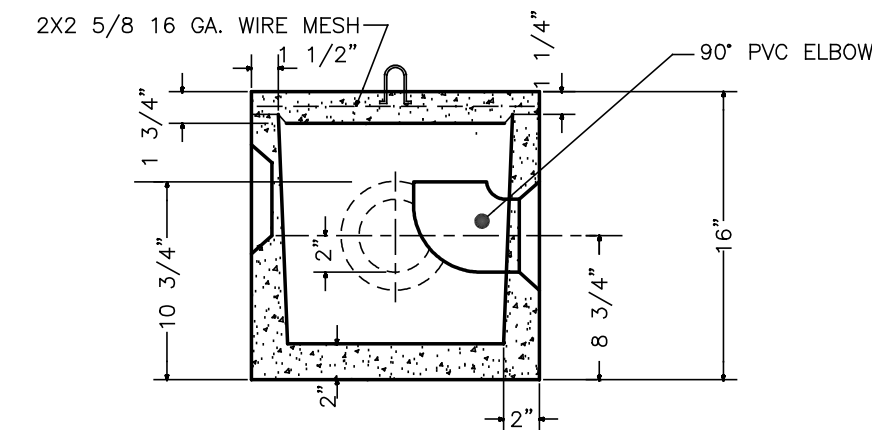
TYPICAL LEACHING
TRENCH SECTION
NOT TO SCALE



SILT FENCE
NOT TO SCALE



HAYBALE BARRIER
NOT TO SCALE



OVERFLOW D-BOX
NOT TO SCALE

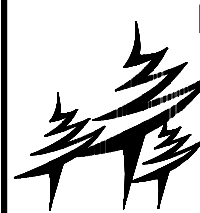
DATE	DESCRIPTION
8/23/2023	WETLANDS DELINEATION FROM 2023 ADDED
8/18/2023	PER NDDH REVIEW
8/11/2023	TEST PIT DATA/SEPTIC SYSTEM
DATE	DESCRIPTION
REVISIONS	

DETAIL SHEET - LOT 1
PREPARED FOR

TRIPP HOLLOW
INVESTMENTS, LLC

TRIPP HOLLOW ROAD
BROOKLYN, CONNECTICUT

Killingly Engineering Associates
Civil Engineering & Surveying



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

DATE: 6/15/2023	DRAWN: AMR
SCALE: NOT TO SCALE	DESIGN: NET
SHEET: 2 OF 2	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 16069

NORMAND THIBEAULT, J.R., P.E. No. 22834 DATE



NORTHEAST DISTRICT DEPARTMENT OF HEALTH

69 SOUTH MAIN STREET • UNIT 4 • BROOKLYN, CT 06234
PHONE (860) 774-7350 • FAX (860) 774-1308 • WEB SITE WWW.NDDH.ORG

August 23, 2023

Tripp Hollow Investments, LLC.
89 Wauregan Road
Brooklyn, CT 06234

SUBJECT: FILE #5005209 -- TRIPP HOLLOW ROAD #, MAP #14, LOT #10-1, BROOKLYN, CT

Dear Tripp Hollow Investments, LLC.:

The subject plan (KILLINGLY ENGINEERING ASSOCIATES, JOB# 16069, TRIPP HOLLOW INVESTMENTS, DRAWN 06/15/2023, REVISED 08/11/2023, REVISED 08/18/2023) submitted on 08/18/2023 has been reviewed, as requested. Following completion of this review, it has been determined that the subject plan will meet the requirements of the Technical Standards for a 3 bedroom house based on the following:

1. CT licensed surveyor must stake house, well, benchmark, and septic system, offset stakes to include flow line or bottom of trench elevation.
2. Permanent benchmark to be set within 50 feet horizontally and 12 feet vertically of septic system.
3. A bottom of excavation inspection is required once the topsoil and fill material have been removed.
4. A current sieve analysis of select fill material (within past 30 days) must be submitted to the Northeast District Department of Health (NDDH).
5. A set of house plans must be submitted prior to an Approval to Construct Permit being issued.
6. An engineer/surveyor's As-Built drawing (to include ties to the house) is to be submitted following the final inspection and approval of installation by NDDH.
7. Installer to schedule and be present for the final inspection with NDDH staff. Level to be set up for verification of elevations OR an Engineer's As Built will be required.

This letter is NOT to be construed as an APPROVAL TO CONSTRUCT the septic system and DOES NOT indicate that the Northeast District Department of Health endorses approval for issuance of any building permit.

Prior to the start of construction of the septic system, you must apply for your Approval to Construct Permit and submit the applicable fees to this office. A set of the floor plans of your house must be submitted to NDDH for review. Your CT licensed installer must come in to this department to sign for the permit if we do not have his signature on file. Office hours are Mon - Thurs 8 am - 4 pm, Fri 8 am - Noon.

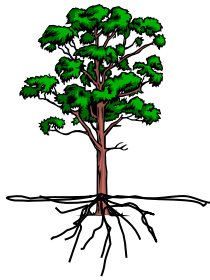
THE OWNER IS RESPONSIBLE TO SEEK PROPER AUTHORIZATION FROM ALL TOWN AGENCIES PRIOR TO START OF CONSTRUCTION.

Should you have any questions, please do not hesitate to contact this office.

Sincerely,

Donovan Moe, EHS
Environmental Health Specialist-NDDH

cc: Brooklyn Building Official; Killingly Engineering Associates



JOSEPH R. THEROUX

~ CERTIFIED FORESTER/ SOIL SCIENTIST ~
PHONE 860-428-7992 ~ FAX 860-376-6842
426 SHETUCKET TURNPIKE, VOLUNTOWN, CT. 06384
FORESTRY SERVICES ~ ENVIRONMENTAL IMPACT ASSESSMENTS
WETLAND DELINEATIONS AND PERMITTING ~ E&S/SITE MONITORING
WETLAND FUNCTION AND VALUE ASSESSMENTS

8/18/23

KILLINGLY ENGINEERING ASSOCIATES
P.O. Box 421
DAYVILLE, CT. 06241

RE: WETLAND DELINEATION, TRIPP HOLLOW INVESTMENTS PROPERTY,
BROOKLYN, CT.

DEAR MR. GLAUDE,

AT YOUR REQUEST I HAVE DELINEATED THE INLAND WETLANDS AND
WATERCOURSE ON THE 4.2 ACRE SUBJECT PROPERTY.

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 WITH A CORRESPONDING LOCATION NUMBER
DELINEATE THE BOUNDARY BETWEEN THE UPLAND SOILS AND THE INLAND
WETLANDS THAT WERE FOUND.

FLAG NUMBERS WF-1 THROUGH WF-41 DELINEATE THE BOUNDARY OF A
PALUSTRINE FORESTED WETLAND FOUND ALONG THE EASTERN, SOUTHERN AND
WESTERN PORTIONS OF THE PROPERTY.

AN INTERMITTENT WATERCOURSE WAS FOUND WITHIN THE LIMITS OF THE
WETLAND ALONG THE EASTERN PROPERTY BOUNDARY.

THESE WETLAND SOILS HAVE FORMED FROM THE PROLONGED WETNESS FROM
THE SEASONALLY HIGH WATER TABLES AND GROUNDWATER BREAKOUT.

THESE SOILS ARE CHARACTERIZED BY THICK ORGANIC "A" HORIZONS, SHALLOW
REDOXIMORPHIC FEATURES AND LOW CHROMA COLORS FOUND WITHIN 20
INCHES OF THE SOIL SURFACE.

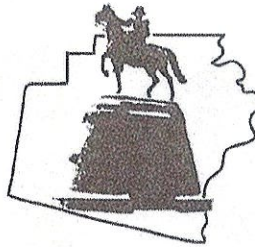
I INSPECTED THE REMAINDER OF THE PROPERTY AND FOUND NO OTHER INLAND WETLANDS OR WATERCOURSES.

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

THANK YOU,

Joseph R. Theroux

JOSEPH R. THEROUX
CERTIFIED SOIL SCIENTIST
MEMBER SSSSNE, NSCSS, SSSA.



Brooklyn Land Use Department

69 South Main Street
Brooklyn CT 06234
(860) 779-3411 x 31

Inland Wetlands _____

Zoning Enforcement ☒

Blight Enforcement ☒

SITE INSPECTION NUMBER

1 2 3 4 5

253 Wolf Den Rd

Address

8/21/23

Date

I inspected + took photos. The
remediation has held up despite
heavy rain last Friday.

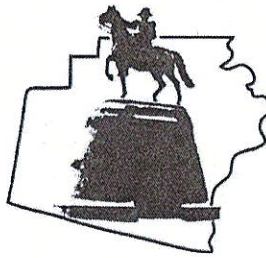
The grass is growing on the remediated
slope.

Commission Representative

M. Washburn

Owner or Authorized Signature _____





Brooklyn Land Use Department

69 South Main Street
Brooklyn CT 06234
(860) 779-3411 x 31

Inland Wetlands ☒

Zoning Enforcement ☐

Blight Enforcement ☐

SITE INSPECTION NUMBER

1 2 3 4 5

409+411 Church St driveway

Address

7/31/23

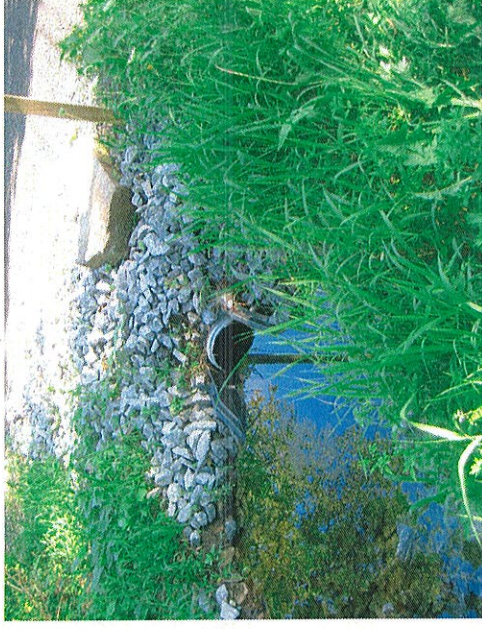
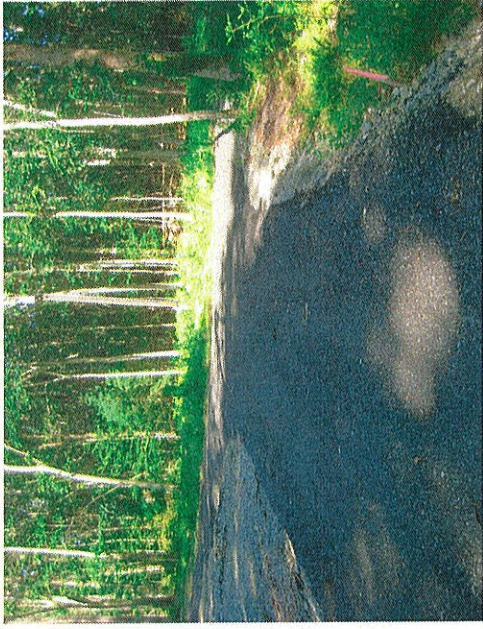
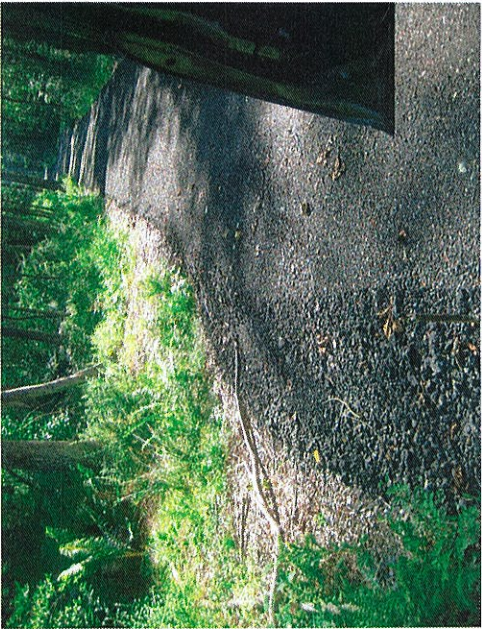
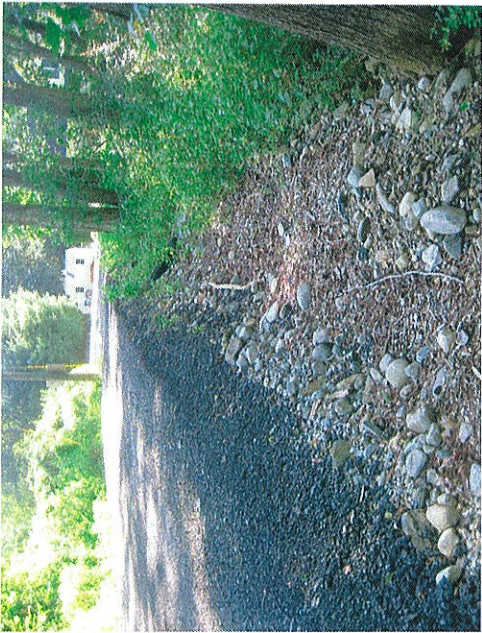
Date

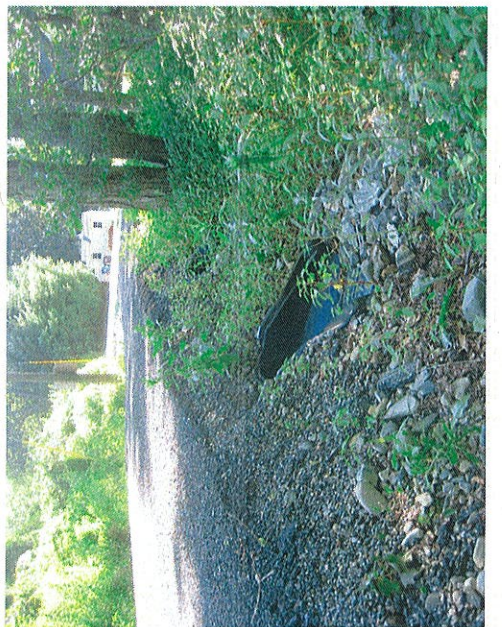
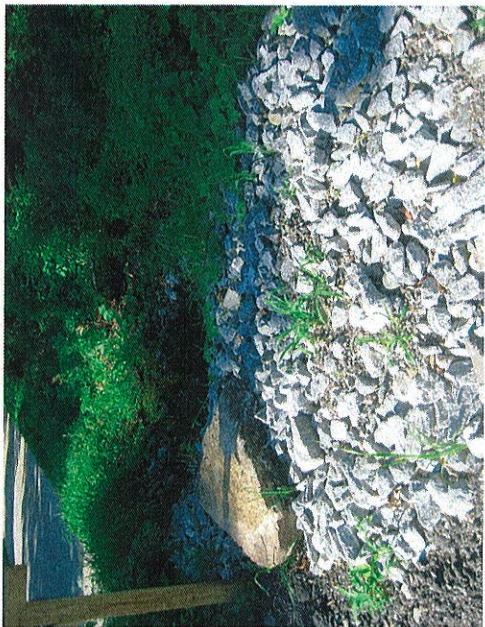
The driveway has been covered with millings. Adam Brindamour, Janet Booth and I inspected. The millings have made their way into the wetlands on both sides of the pipe at the westernmost wetlands crossing. There is no water flowing through this pipe. Water is flowing through the other 2 pipes. Jake Kausch was present. He agreed to remove the millings at the ends of the pipe at the westernmost crossing.

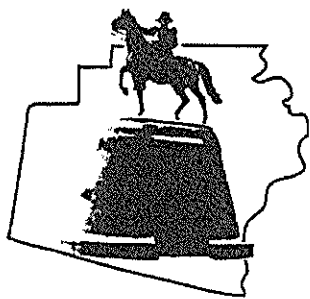
☐ Email Jake + ask him to let me know when the millings have been removed from the wetlands.

Commission Representative M. Washburn

Owner or Authorized Signature _____







TOWN OF BROOKLYN
Land Use Department
69 South Main Street • Suite 22
BROOKLYN, CONNECTICUT 06234
860-779-3411 Ext. 12

**ORDER TO CORRECT VIOLATIONS OF THE BROOKLYN, CT
INLAND WETLANDS AND WATERCOURSES REGULATIONS**

CERTIFIED # 9489 0090 0027 6215 8985 13

To: A. Kausch & Sons
15 Beach View Road Extension
Voluntown, CT 06384

August 21, 2023

Location of Violation: Church Street, Map 37, Lot 17 and Map 37 Lot 20 and 21

Violation of Wetlands Permit #071321A A. Kausch & Sons, Pomfret Landing Road/Church Street, Map 37, Lot 17 and Map 37 Lot 20 and 21; Wetlands crossing for driveway, 2 residential homes, septic system, well, minor grading.

Facts

On 9/28/21, CLA Engineers, Inc. submitted to the Brooklyn Land Use Office a Plan dated 9/16/21 prepared for A. Kausch & Sons LLC titled "Lots 019-37-17, 019-37-20 & 019-37-21 Church St. Site Development Brooklyn, CT Grading & Site Design" ("the approved plan"). This plan includes a Driveway Construction Sequence as was required as a condition of approval.

Because of your failure to follow the approved plan or the approved Driveway Construction Sequence, you were issued a Notice of Violation, required to attend a Show Cause Hearing, and required to submit a Revised Driveway Construction Sequence, which was approved. Refer to the attached Revised Driveway Construction Sequence.

Also, refer to the following attached documents:

- 11/2/22 inspection report and photos with captions
- Syl Pauley's report dated 11-3-22
- Bob DeLuca's letter dated 11-8-22
- Approved driveway remediation plan
- Inspection report dated 2/21/23 and 3/8/23

None of the documents listed above called for ground asphalt millings to be placed on the driveway surface.

On 7/31/23, Margaret Washburn, Wetlands Enforcement Officer, conducted an inspection with Jake Kausch and IWWC Members, Adam Brindamour and Janet Booth.

During the 7/31/23 inspection, the following non-compliance issues appeared to have occurred on your property in violation of your Inland Wetlands and Watercourses Permit #071321A:

The driveway work does not appear to have been done in accordance with the Revised Driveway Construction Sequence. The driveway has been covered with ground asphalt millings. The Revised Driveway Construction Sequence did not call for the driveway to be covered with ground asphalt millings.

Material other than the approved driveway gravel had been installed over the entire driveway. That material amounts to unauthorized fill in the upland review area.

The sediment controls have been removed. Ground asphalt millings were observed and photographs in the wetlands at both ends of the pipe at the westernmost wetlands crossing.

Your activities, conducted in violation of your Inland Wetlands and Watercourses Permit, are in violation of the Brooklyn Inland Wetlands and Watercourses Regulations.

Applicable Laws and Regulations

The Brooklyn Inland Wetlands and Watercourses Regulations define, in part, a “regulated activity” as “any operation within or use of a wetland or watercourse involving removal or deposition of material, or any obstruction, construction, alteration or pollution, of such wetlands or watercourses....”. “Material” is defined to include “means any substance, solid or liquid, organic or inorganic, including but not limited to soil, sediment, aggregate, land, gravel, clay, bog, mud, debris, sand, refuse or waste”. The term “pollution” is defined to include “harmful thermal effect or the contamination or rendering unclean or impure of any waters of the state by reason of any waste or other materials discharged or deposited therein by any public or private sewer or otherwise so as directly or indirectly to come in contact with any waters. This includes, but is not limited to, erosion and sedimentation resulting from any filling, land clearing or excavation activity”.

The phrase “rendering unclean or impure” is further defined as “any alteration of the physical, chemical or biological properties of any waters of the state, including, but not limited to, change in odor, color, turbidity or taste”.

Furthermore, a “significant impact” is defined as “any activity, including, but not limited to, the following activities which may have a major effect:

1. Any activity involving deposition or removal of material which will or may have a substantial effect on the wetland or watercourse or on wetlands or watercourses outside the area for which the activity is proposed.
2. Any activity which substantially changes the natural channel or may inhibit the natural dynamics of a watercourse system.

3. Any activity which substantially diminishes the natural capacity of an inland wetland or watercourse to: support aquatic, plant or animal life and habitats; prevent flooding; supply water; assimilate waste; facilitate drainage; provide recreation or open space; or perform other functions.
4. Any activity which is likely to cause or has the potential to cause substantial turbidity, siltation or sedimentation in a wetland or watercourse.
5. Any activity which causes substantial diminution of flow of a natural watercourse or groundwater levels of the wetland or watercourse.
6. Any activity which is likely to cause or has the potential to cause pollution of a wetland or watercourse.
7. Any activity which damages or destroys unique wetland or watercourse areas or such areas having demonstrable scientific or educational value.”

“Upland Review Area” means “non-wetland or non-watercourse areas where activities are likely to impact or affect wetlands or continuous watercourses”. Section 4 of the Regulations addresses exemptions, and Section 6.1 provides that any regulated activity requires a permit.

Section 6.2 states “Any person found to be conducting or maintaining a regulated activity without the prior authorization of the Commission, or violating any other provision of these regulations, shall be subject to the enforcement proceedings and penalties prescribed in section 14 of these regulations and any other remedies as provided by law”.

You are hereby required to:

1. By 8/30/23, remove the ground asphalt millings that have been deposited in the wetlands at both ends of the pipe at the westernmost wetlands crossing, using hand tools.
2. Remove the millings outside the upland review area on the subject property.
3. By 8/30/23, contact me at m.washburn@brooklynct.org to verify that the millings have been removed from the wetlands.
4. By 9/5/23, submit a revised site plan showing
 - 1) millings as the final surface and
 - 2) cross-sections of the driveway sections at the three wetlands crossings showing final elevations in relation to existing adjacent wetlands topography.
5. Attend the Show Cause Hearing at the 9/12/23 special meeting of the Brooklyn IWWC at 6:00 PM at 31 Tiffany Street, to be heard and show cause why this order should not remain in effect.

Refer to the attached copy of Section 6 of the Town of Brooklyn IWWC Regulations, which states that any person violating provisions of these regulations shall be subject to enforcement proceedings and penalties. Also, refer to the attached ordinance Chapter 20-2, the Town Ordinance in which **the fine for each day a wetland violation continues is \$1,000.00.**

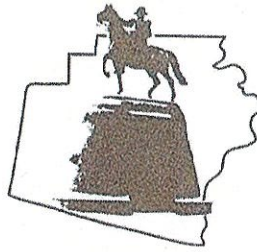
For each day during which to violation continues beyond the deadline in this Order, the Town may commence an enforcement action and the seek a civil penalty of up to \$1,000.00 per day for such violation, plus its attorney's fees and costs. The civil penalties are assessed by the Superior Court when an action is brought before the court by the municipality. The Commission members or its duly authorized agent may make regular inspections of the subject property work during reasonable hours.

Dated at Brooklyn, this 21st day of August 2023.

Margaret Washburn

Margaret Washburn, Enforcement Officer of the Brooklyn
Inland Wetlands and Watercourses Commission

CC: Austin Tanner, First Selectman; Jana Roberson, Town Planner; Paul Archer, Archer Survey



Brooklyn Land Use Department

69 South Main Street
Brooklyn CT 06234
(860) 779-3411 x 31

Inland Wetlands ☒

Zoning Enforcement ☒

Blight Enforcement ☐

SITE INSPECTION NUMBER

1 2 3 4 5

Kausch driveway #409#411

Address

11/2/22

Date

I met Syl Pauley, inspected and took photographs.

The wetlands filled for the passing area should not have been filled. This filling was not shown on the approved driveway plan.

The wetlands filled southwest of the last pipe under the driveway should not have been filled. This filling was not shown on the approved driveway plan. There is only 9" of fill over the third (westernmost) pipe in the middle crossing.

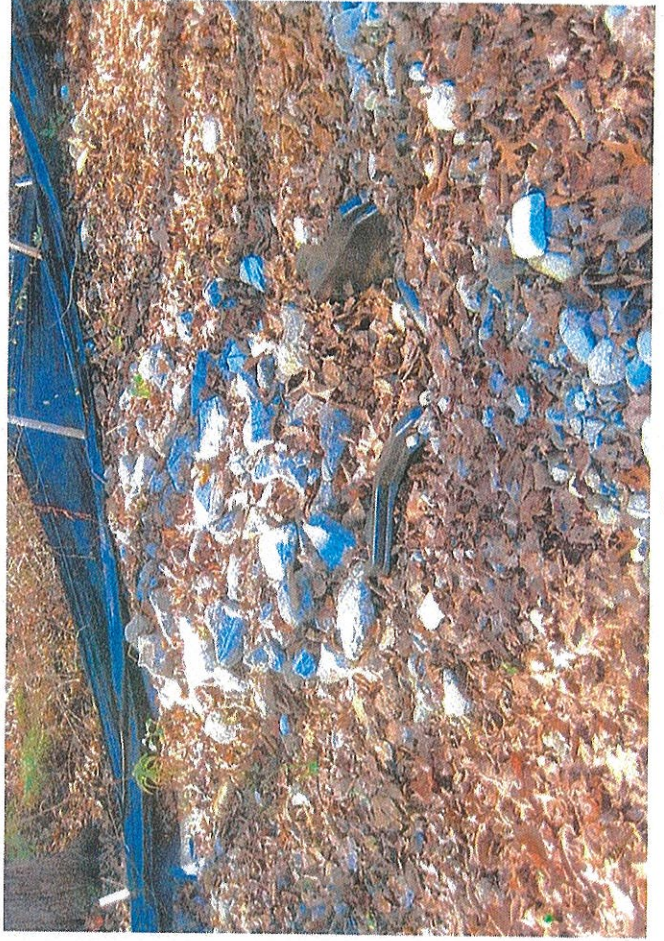
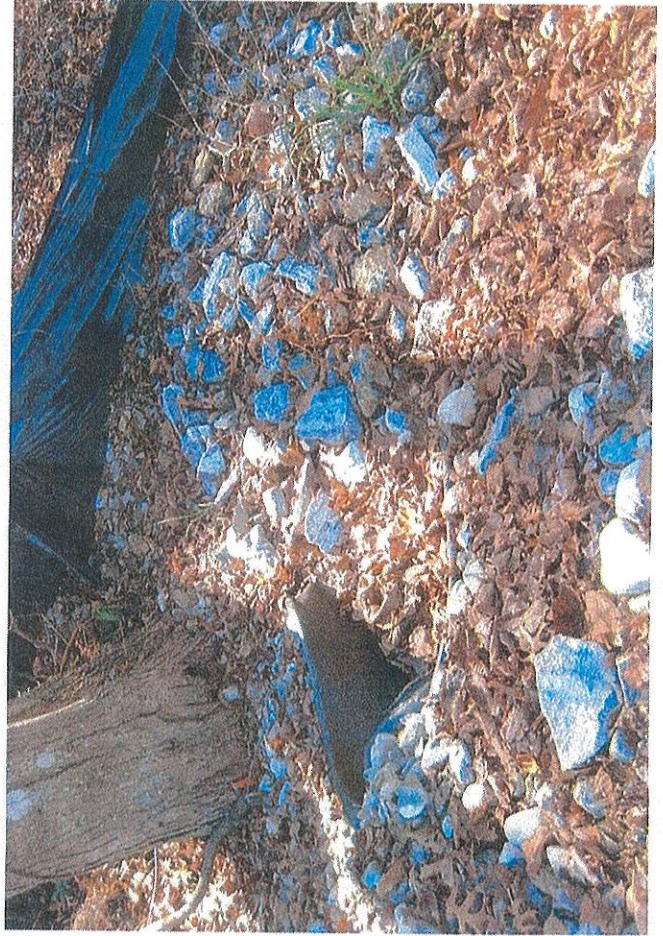
Commission Representative M. Washburn

Owner or Authorized Signature _____



← North side of
crossing closest
to Church St.

South side of
same crossing



2

3

5



Stockpiling Area



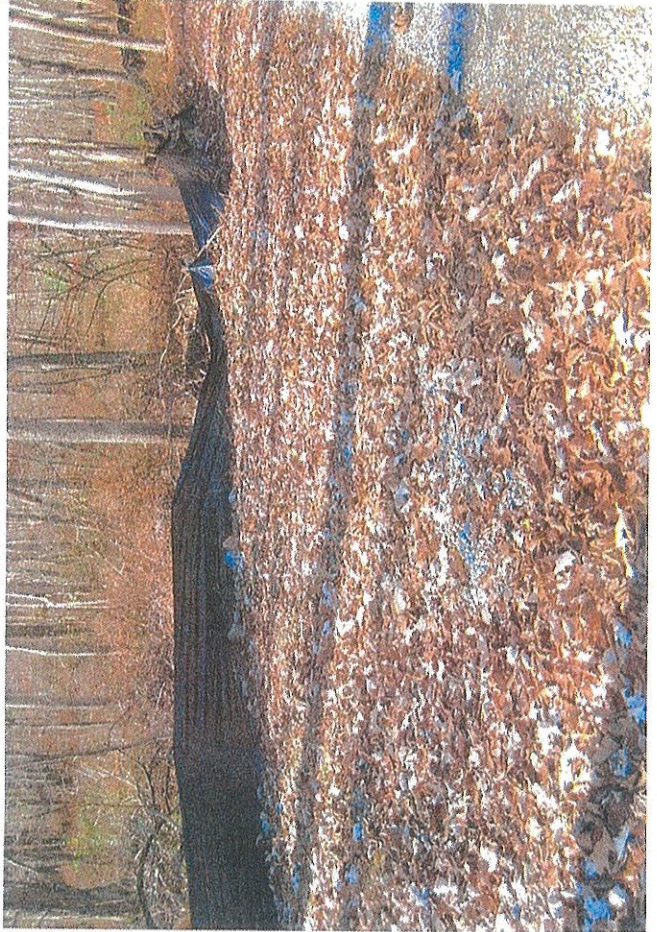
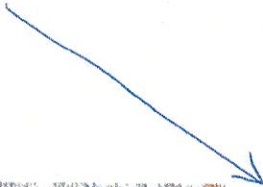
4

6



Passing area

This end constructed
in wetlands
unnecessarily.



8



7

10

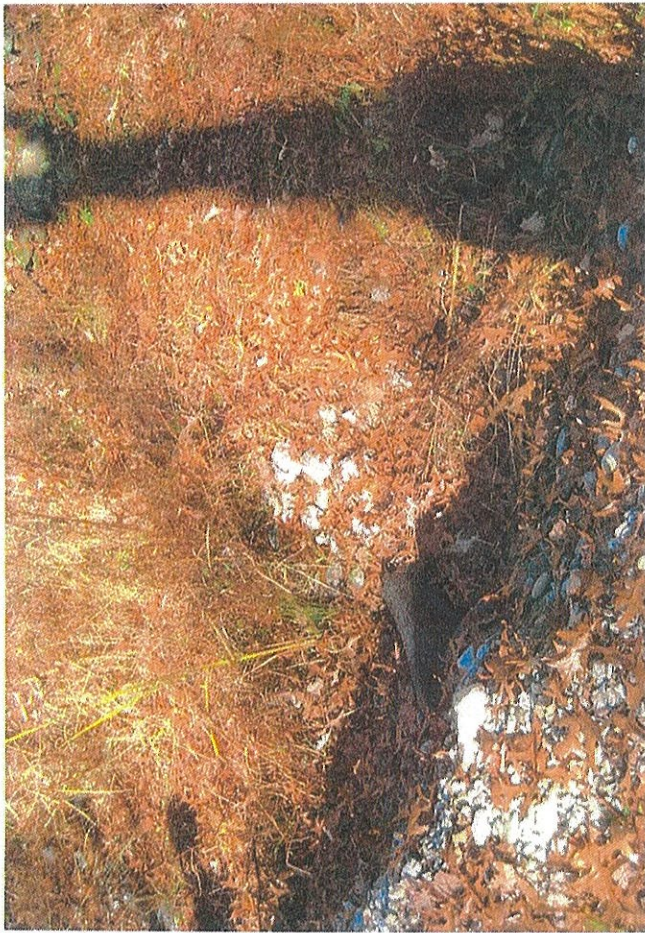


Stumps + logs thrown in wetlands at
passing area



9

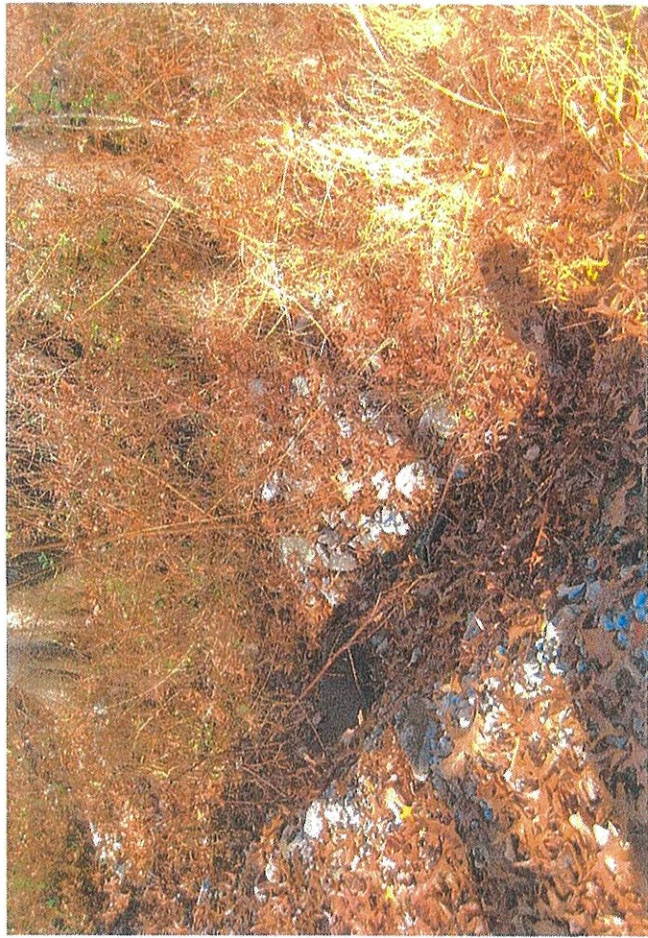
11



North side of
middle crossing



12



13

16



South side of
middle crossing



15

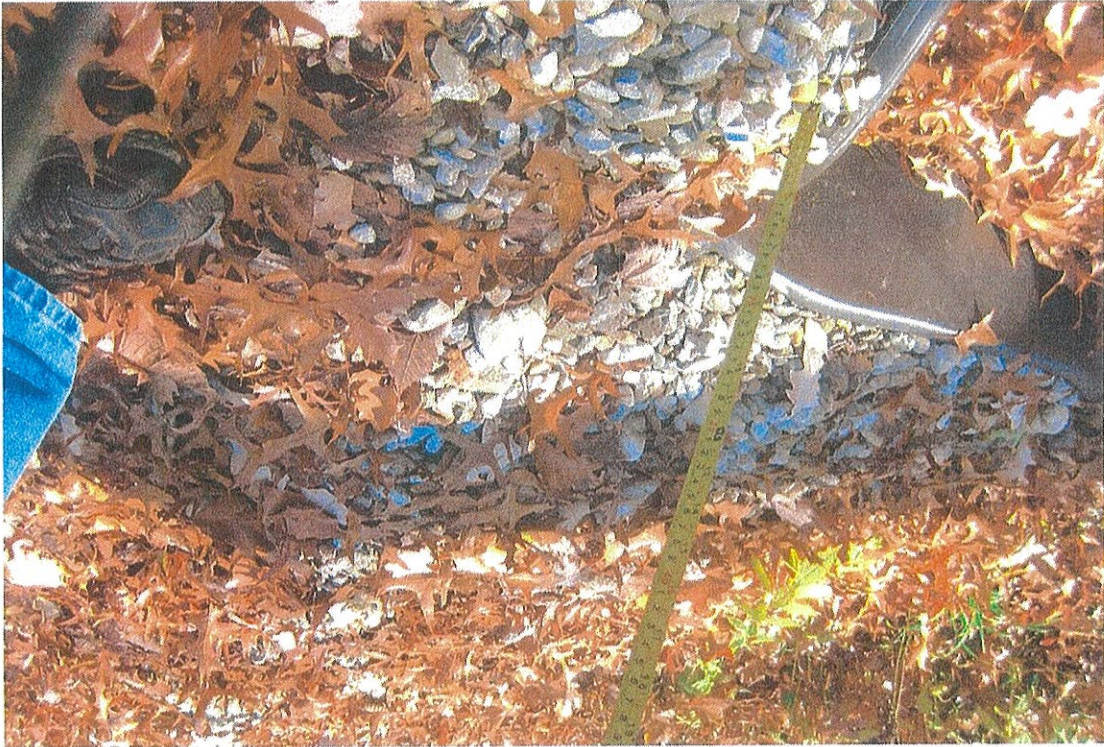


14

17



Tape measured 9" of fill over third pipe in middle crossing (westernmost pipe)

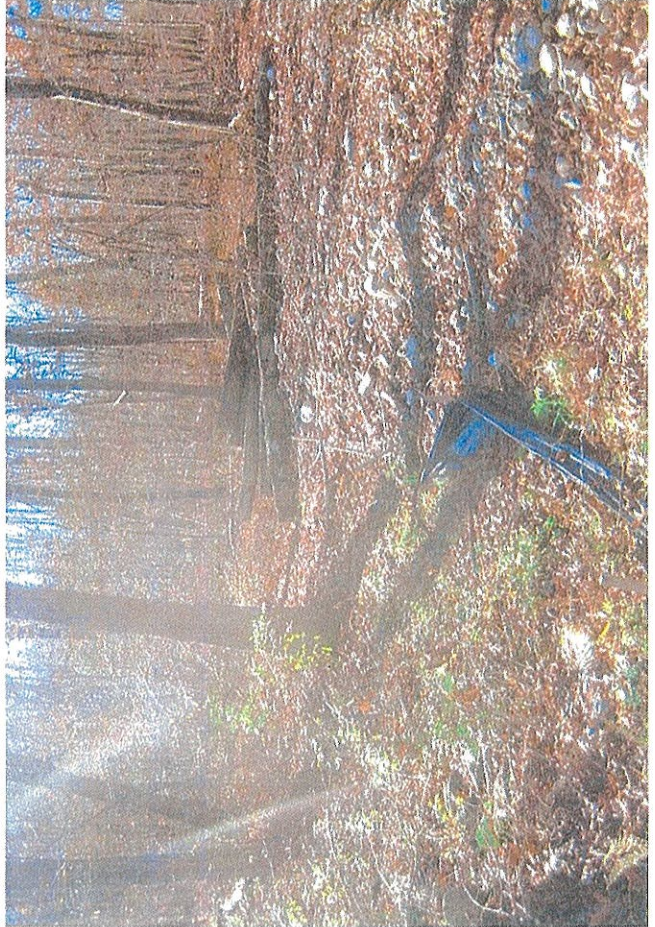


18

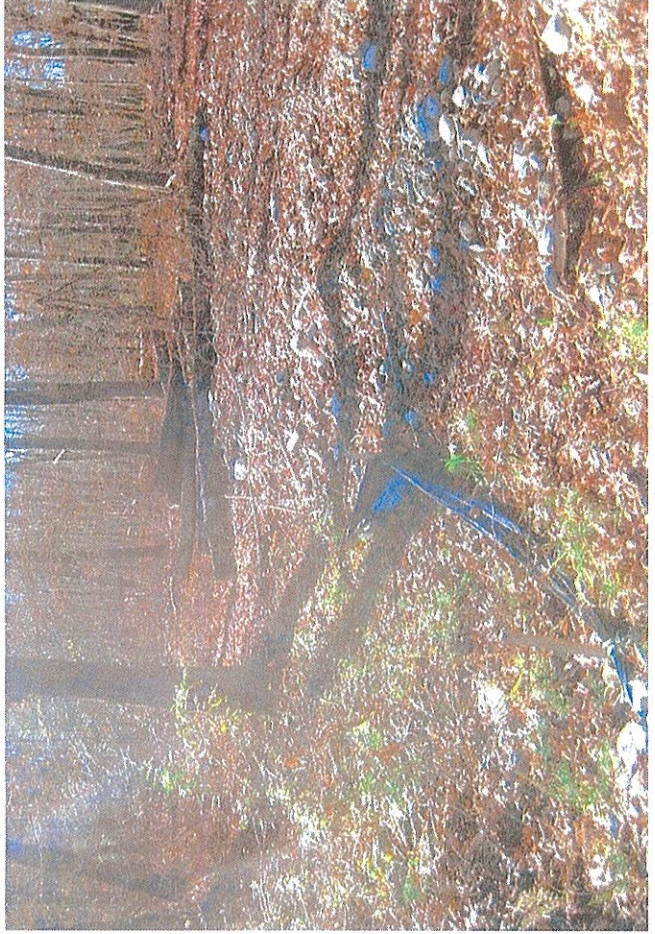
19



Wetlands filled but not shown on either as-built plan. Photo 19 taken from the last pipe (westernmost) under the driveway, facing southwest.



20



21



neccog

NECCOG is a non-profit organization that provides engineering services to its members. It is a part of the National Association of Engineers (NAE) and is committed to providing the highest quality of service to its members.

November 3, 2022

Ms. Margaret Washburn
ZEO/WEO/Blight Enforcement Officer
Town of Brooklyn
5 Wolf Den Road
P.O. Box 356
Brooklyn, CT 06234

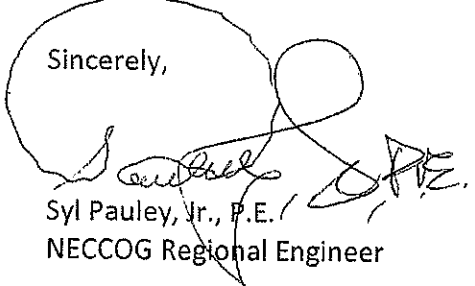
SUBJECT: Kausch Church Street Driveway
Transmittal of Engineer's Driveway Installation Inspection &
As-Built Plan Review Report
Assessor's Map/Lot Nos. 019-37-17, 019-37-20 & 019-37-21
Church Street
Brooklyn, Connecticut

Dear Ms. Washburn:

Transmitted herewith is a copy of my Driveway Installation Inspection & As-Built Plan Review Report, dated November 3, 2022.

Please do not hesitate to contact me via email at syl.pauley@neccog.com with any questions.

Sincerely,


Syl Pauley, Jr., P.E.
NECCOG Regional Engineer

SP/s

Cc: File

Sent to recipient via email

NORTHEASTERN CONNECTICUT COUNCIL OF GOVERNMENTS

ENGINEER'S REPORT KAUSCH CHURCH STREET DRIVEWAY INSTALLATION INSPECTION AND AS-BUILT PLAN REVIEW (ASSESSOR'S MAP/LOT NOS. 019-37-17, 019-37-20 & 019-37-21) CHURCH STREET BROOKLYN, CT (November 3, 2022)

The comments contained herein pertain to 1) my review of a plan, entitled "Zoning Location Plan, Driveway As-Built, Prepared for A. Kausch & Sons, LLC, Church Street & Pomfret Landing, Brooklyn, Connecticut," prepared by Archer Surveying, LLC, dated September 2, 2022 with Revision Date October 26, 2022, and 2) a site inspection with Brooklyn ZEO/WEO Margaret Washburn at 11:00 a.m. on November 2, 2022.

Driveway Inspection Comments

1. No wetland flagging was observed anywhere during the site walk.
2. The driveway appeared to be "as straight as an arrow" with its width measuring 12' at several points from Church Street to the bend in the driveway.
3. The location of the previous "temporary stockpile" location needs to be restored better than what was observed. It was found to be rough graded with deep muddy equipment tire ruts and covered with cobbles. The cobbles need to be removed, the remaining exposed soil compacted and fine graded to a uniform surface, and finished with a 6" layer of topsoil (loam) and seeded with a mixture that will thrive in the woodland environment. The cobbles may be buried on site outside of any wetland.
4. The driveway surface was found to consist entirely of rounded stone. Round stone is not stable and will be easily displaced with traffic and especially during a snow plowing operation. However, the approved plans for this subdivision has a "Typical Driveway Cross Section" that calls for the surface of the driveway to consist of 8" rolled bank gravel to CT DOT 818 M.02.03 over 6" processed aggregate base to CT DOT 818 M.05.01. Onsite inspection did not observe either of these materials used for the construction of the driveway. Several test pits will be needed to be dug and observed by town staff to verify whether or not the approved materials were incorporated in the construction of the driveway. I would like to point out that Mr. Robert DeLuca, P.E., stated in his letter of October 7, 2022 that the driveway installation was installed "*substantially in accordance with the design plan*", however, this appears to be an inaccurate assessment upon what was found in the field. Mr. DeLuca needs to be asked to submit a written certification that he inspected the driveway as it was being constructed to make such a statement.
5. The depth of driveway embankment over all the pipes varied from approximately 3" to 9", which does not meet the approved "Typical Driveway Cross Section" construction detail. However, the driveway wetland crossing profiles on approved plan Sheet 2 of 4 indicated at least 12" of cover over the pipes. The "Typical Driveway Cross Section" should be the control and the amount of fill

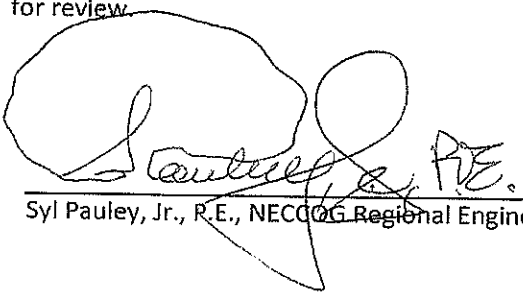
over the pipes should be the same, 14". This instance is again contrary to what Mr. DeLuca stated in his letter and statement on the plan.

6. The vehicle passing area is not in the location shown on the approved Sheet 2 of 4 (Grading & Site Design) plan. It was constructed to one side of the driveway with a portion of it in wetlands. This is clearly a violation as it was not approved by the Inland Wetlands and Watercourses Commission, as far as I can tell. Furthermore, it needs a treatment the same as the "Typical Driveway Cross Section" with a uniform grade, which it does not exhibit.
7. Stumps, tree trunks and other debris is piled up along the back edge of the passing area is objectionable and needs to be removed. Furthermore, this material appears to be disposed of in the regulated wetland.
8. It appears that a portion of the wetland has been filled in way beyond the south end of the single pipe installed at Wetlands Crossing #1. Trees have been removed with several logs stacked up and there is no apparent reason of why this was done as it is well beyond the area needed for the driveway. The area is strewn with cobblestones that need to be removed at least from the unauthorized wetland disturbance and restored with 6" topsoil (loam) and with a mixture that will thrive in the woodland environment. This area was not to be disturbed in accordance with the previously approved site plan and is in violation of the wetlands regulations.

As-Built Plan Review Comments

1. The scale noted in the Title Block is 1" = 80'. This is incorrect and needs to be changed to the actual plan scale of 1" = 40'.
2. The driveway as depicted does not reflect the linearity or the uniform width of 12' as measured at several locations during the site inspection.
3. The plan does not show flared end sections or riprap on both ends of each pipe as observed in the field. These items count as disturbance in the wetland and needs to be included in the area of disturbance note. Additionally, the area covered by the side slope of the driveway needs to be included in the area of disturbance calculation and the angle of the slopes in the field appear to be 1:1 and not as approved as shown in the "Wetland Crossing (Typical) Shared Driveway" detail on Sheet 2 of 4. Accordingly, all areas of wetland disturbance need to be revised and recalculated by the Applicant's land surveyor.
4. Based upon field observations as described in Note 8 under "Driveway Inspection Comments", the area of disturbance noted at Wetlands Crossing #1 appears to be grossly inaccurate. This area covers approximately 600 square feet and needs to be verified by field surveying methods.
5. As far as Mr. DeLuca's certification statement goes, please refer to Note 4 under "Driveway Inspection Comments."
6. Based upon discrepancies between what was observed in the field and what is described on the plan, the areas of disturbance in the wetlands need to be verified in the field via land surveying methods and witnessed by town staff at that time.
7. The current as-built plan is deficient as noted in this report and needs to be revised and resubmitted for review.

By:


Syl Pauley, Jr., P.E., NECCOG Regional Engineer

CLA Engineers, Inc.

Civil • Structural • Survey

317 MAIN STREET • NORWICH, CT 06360 • (860) 886-1966 • (860) 886-9165 FAX

November 8, 2022

Margaret Washburn, MS, RPSS
Zoning & Wetland Enforcement Officer
Town of Brooklyn
69 South Main Street
Suite 22
Brooklyn, CT 06234

RE: Church Street Site Development
Church Street, Brooklyn CT
CLA-6639

Dear Margaret:

We are writing in response to the Town Engineers review letter regarding the as-built plan for the above referenced project.

Driveway/Inspection Comments:

- 1) No comment. We note that wetland flagging is over 2 years old.
- 2) No comment.
- 3) The driveway location is an easement through an existing lot of record and the applicant has scheduled test pits with the Health Department in the temporary stockpile area. E&S barriers will be maintained during this work. The outcome of test pits will determine if and when this area will be restored.
- 4) We note that the specification calls for gravel conforming to M.02.01 which can consist of broken or bank gravel and bank gravel can consist of rounded stone. It is apparent that the material used is bank gravel. We note that CLA did not inspect this driveway during construction. We agree that a broken material with more fines on the upper most surface would be less prone to rutting. We also note that the house construction has been completed and therefore concrete trucks and other similarly loaded vehicles have traversed the driveway and the drainage crossings and the driveway has remained stable. We note that driveway maintenance will be the responsibility of the home owner.
- 5) We find that pipe cover at crossing 1 & 3 is less than 12" and the applicant agrees to add gravel material to provide a minimum of 12" of cover over pipe.
- 6) We recommend that the applicant and Wetland Agent meet in the field to determine any proposed modifications related to this area.
- 7) See note 6 above.
- 8) We recommend that the applicant and Wetland Agent meet in the field to determine any proposed modifications related to this area.

As-Built Plan Comments:

- 1) The scale will be modified.
- 2) We find that the horizontal deviation in the general driveway alignment does not impact the wetland permit significantly to justify any modification.
- 3) Flared end sections are called out on plan. A leader line will be added to make it more clear. We recommend that the applicant and Wetland Agent meet in the field to determine if calculations related to wetland impacts need to be verified in this area.
- 4) We recommend that the applicant and Wetland Agent meet in the field to determine if calculations related to wetland impacts need to be verified in this area.
- 5) We note that CLA performed an inspection of the completed driveway as it relates to the placement and elevation of the drainage system and its function related to the proposed wetland crossings. Observation of the private driveway construction was not considered of significant importance as this is typically not something that a Town would inspect.
- 6) No comment.
- 7) No comment.

Please contact me if you have any questions.

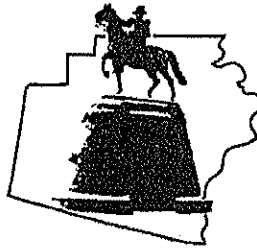
Sincerely,

A handwritten signature in black ink, appearing to read 'R. DeLuca', with a stylized flourish at the end.

Robert A. DeLuca, P.E.

REVISED DRIVEWAY SEQUENCE:

1. NOTIFY BROOKLYN WETLAND AGENT TO SCHEDULE A PRE-CONSTRUCTION MEETING 10 DAYS PRIOR TO STARTING WORK
2. CLEAR & GRUB WITHIN SILT FENCE AND WETLAND DISTURBANCE LIMITS SHOWN ON PLAN
3. INSTALL SILT FENCE & WATTLES (MAINTAIN CONTROLS AS NEEDED)
4. ROUGH INSTALL DRIVEWAY GRAVEL/GRADE IN ORDER TO ACCESS PROPERTY EASILY
5. TEMPORARILY STOCKPILE TOPSOIL/OTHER MATERIALS (PIPES, ADDITIONAL SILT FENCE, GRAVEL IF NEEDED, ETC.) & REMOVE AS NECESSARY
6. INSTALL DRAINAGE PIPES WITH ELEVATIONS CONFIRMED BY SURVEYOR
7. INSTALL DRIVEWAY GRAVEL/FINISH GRADE
8. PROVIDE WOODCHIPS/TOPSOIL WITH FERTILIZER & SEED ON ALL REMAINING DISTURBED AREA
9. PREPARE AS-BUILT PLAN
10. INSTALL OVERHEAD UTILITIES, STABILIZE DISTURBED AREAS, REMOVE E&S CONTROLS ONCE VEGETATION IS ESTABLISHED



Brooklyn Land Use Department

69 South Main Street
Brooklyn CT 06234
(860) 779-3411 x 31

Inland Wetlands ☒

Zoning Enforcement ☐

Blight Enforcement ☐

SITE INSPECTION NUMBER

1 2 3 4 5

411 + 409 Church St. driveway

Address

2.21.23 + 3/8/23

Date

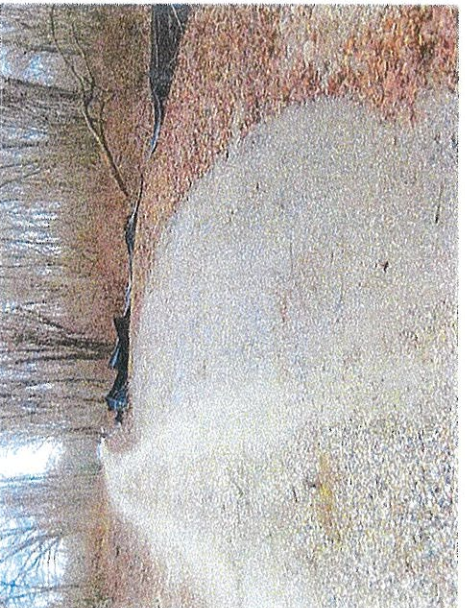
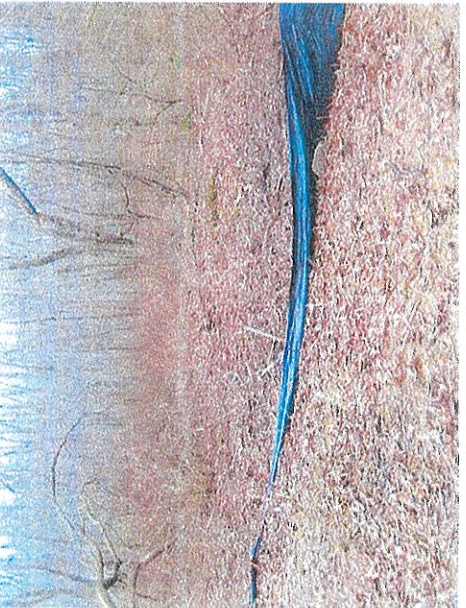
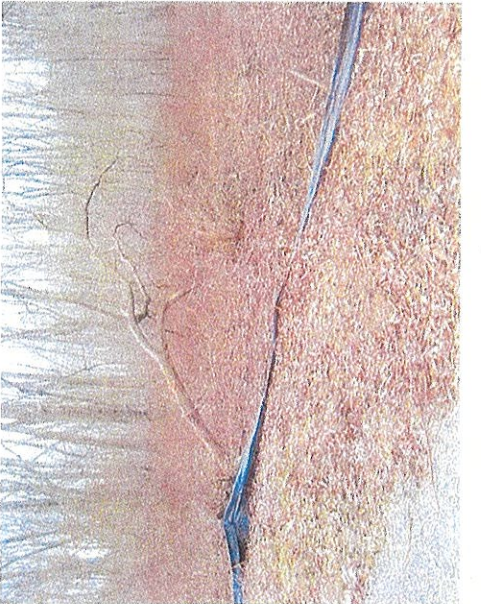
I met Andrew + Jake Kausch. Andrew gave me the Driveway Remediation Plan that was required. I approved the Driveway Remediation plan. I inspected + took photos. After the wood chips are spread, in the Remediation Area, all of the work required to Remediate the driveway will have been completed.

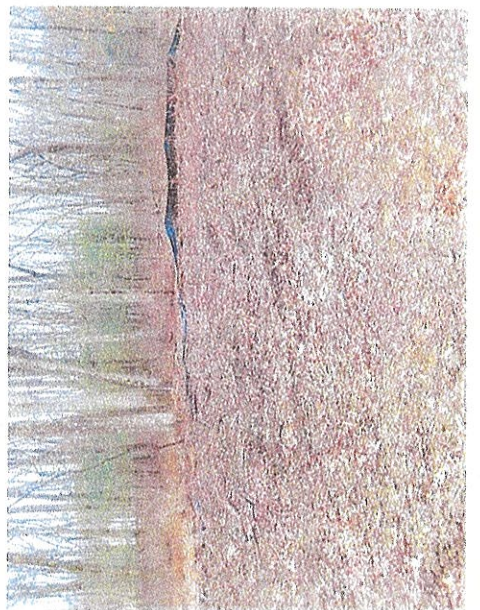
March 8, 2023 - Andrew submitted the attached photos showing wood chips spread in the Remediation Area. All the work required to remediate the driveway has been completed.

Commission Representative

M. Washburn

Owner or Authorized Signature







LEGEND

	PROPERTY LINE
	EASEMENT
	STONEWALL
	STONEWALL REMAINS
	WETLANDS FLAG
	IRON PIN
	DRILL HOLE
	MONUMENT
	PROPERTY POINT
	UTILITY POLE

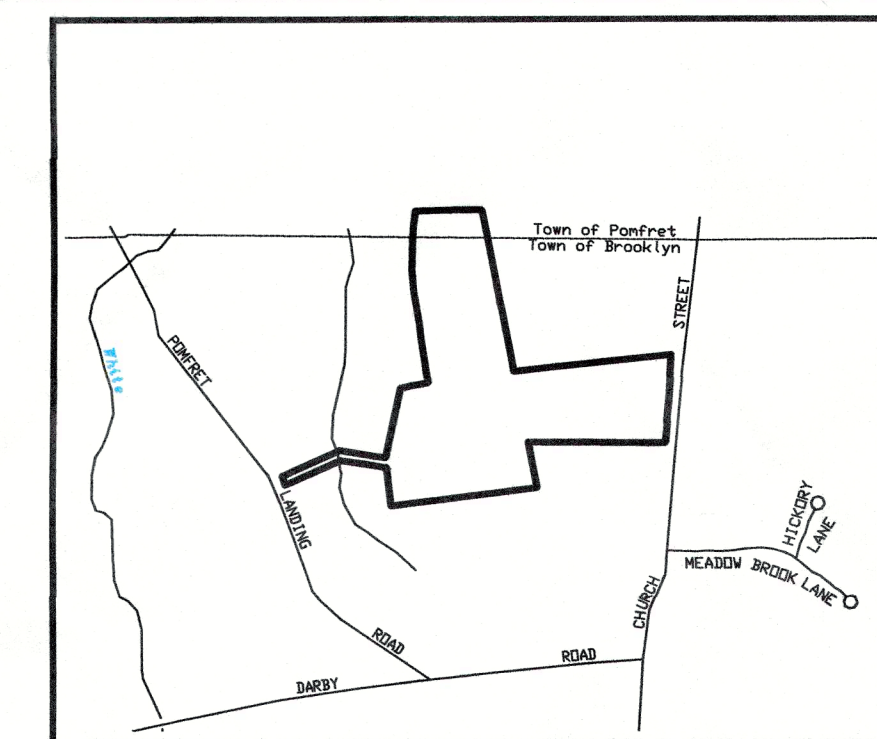


Notes

1. This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Section 20-300b-20 and the "Standards for Surveys and Maps in State of Connecticut" as adopted by the Connecticut Associations of Land Surveyors, Inc. on September 26, 1946

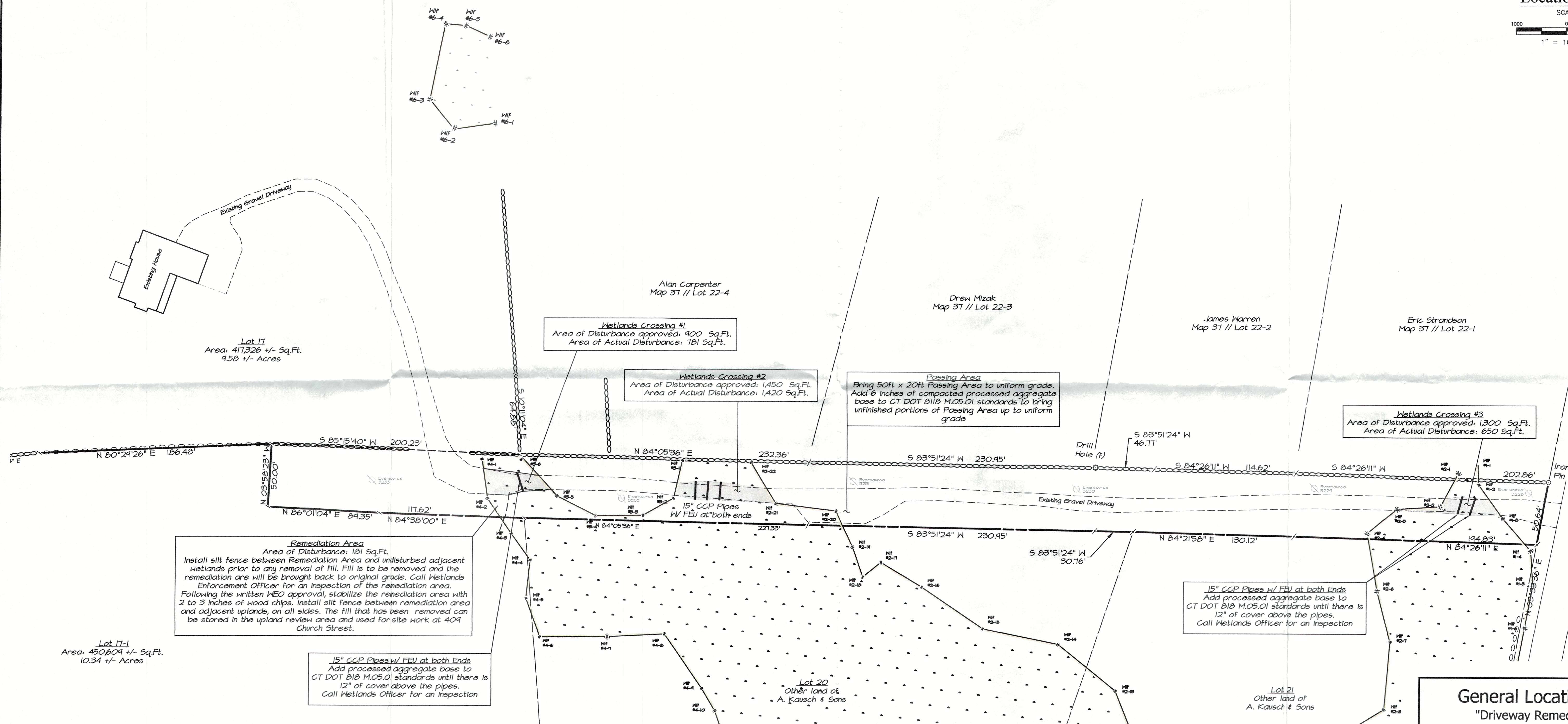
- This Survey conforms to a Class "A-2" Horizontal Accuracy
- Survey Type: General Location Survey
- Boundary Determination: Resurvey
- Intent: Driveway Wetlands Remediation

2. Parcels shown as lots 17, 20 and 21 on Assessors Tax Map 37 of the Brooklyn Assessors Office



Location Map

SCALE
1" = 1000 FT



General Location Survey "Driveway Remediation Plan"

Prepared For:
A. Kausch & Sons LLC
Church Street & Pomfret Landing
Brooklyn, Connecticut

DRAWING SCALE: 1"=40'

0 40 80

ARCHER Surveying LLC
18 Providence Road, Brooklyn, CT
(860) 779-2240



To My Knowledge and Belief this Map is substantially
Correct as noted hereon

Paul M. Archer LL.S. #10013

2-21-23
Date

Sheet No. 1 OF 1 Project No. 2135 Date: February 21, 2023

MAHER AND COTNOIR
ATTORNEYS AT LAW

JOHN J. MAHER (1960 – 2004)
ERNEST J. COTNOIR

August 28, 2023

Via Facsimile and E Mail

Ms. Margaret Washburn
Enforcement Officer, Brooklyn Inland
Wetlands and Watercourses Commission
69 South Main Street, Suite 22
Brooklyn, CT 06234

*Re: Order to Correct Violations
Church Street, Map 37, Lots 17, 20 and 21*

Dear Ms. Washburn:

The undersigned represents A. Kausch & Sons, LLC, and I have been asked by its member, Andrew Kausch, to respond to the above referenced order dated August 21, 2023. I have reviewed the order, with particular attention to the required actions, as well as section 14.4.b of the Brooklyn Inland Wetlands and Watercourses Regulations, which you cite as authority for the order.

It is my understanding that the driveway in question had been constructed in the fall of last year but required certain items of remediation to be done by the owner/builder. Those items were addressed and on March 8, 2023, you inspected the same and concluded that all work necessary to remediate the driveway had been completed and a certificate of occupancy was issued for the property.

Subsequently, as part of maintaining and improving his property, the owner added asphalt millings to the surface of the driveway. In your order, you conclude that this was a violation of the previously issued wetlands permit because millings were not shown as part of that application. You also order removal of the millings and submission of a revised site plan showing, among other things, millings as the final surface.

Because the permit had already been granted and the work approved, Mr. Kausch did not believe any additional action was necessary in connection with his addition of the millings since he did not make any change to the wetlands crossings. Nonetheless, Mr. Kausch will submit the modified plan as requested and we will plan to attend the meeting on September 12, 2023. Since the plan is to be revised to show the millings as the final surface I would request that any removal of the millings that are already there be continued until after the meeting. Millings are, as you know, an appropriate

Ms. Margaret Washburn

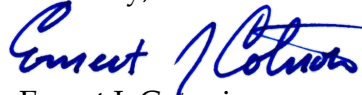
August 28, 2023

Page 2

(and common) material for the final surface of driveways and it would serve no purpose to have the owner remove them prior to the Commission having a chance to review and approve the new site plan.

Thank you for your consideration and please call or contact me, or have counsel contact me, if you have any questions or suggestions regarding this matter.

Sincerely,

A handwritten signature in blue ink, appearing to read "Ernest J. Cotnoir". The signature is fluid and cursive, with the first name "Ernest" and last name "Cotnoir" clearly distinguishable.

Ernest J. Cotnoir

Margaret Washburn

From: Margaret Washburn
Sent: Monday, August 28, 2023 3:09 PM
To: Ernie Cotnoir
Subject: RE: Order to Correct Violations, Church Street, Brooklyn
Attachments: millings at pipe 1.JPG; millings at pipe 2.JPG; millings at pipe 3.JPG; millings on the driveway to 409 & 411 Church Street; 7-31-23 insp report & pix.pdf

Thank you, Attorney Cotnoir. Just to clarify, the only millings the Commission's Order calls for is the removal of the millings that have been deposited in the wetlands at both ends of the westernmost wetlands crossing. Please see attached.

On 7/31, Jake Kausch agreed to remove the millings at the ends of the pipe.

On 8/2, I sent Jake an email reminding him to please remove the millings and to let me know when he did so.

Jake never responded to my email.

My concern is that the millings may impede the passage of water through the pipe.

I agree to extend the deadline for removing these millings from the wetlands until after the 9/12 meeting.

Margaret Washburn
ZEO/WEO/Blight Enforcement Officer
69 South Main Street, Suite 23
Brooklyn, CT 06234
(860) 779-3411 ext. 31
Mon. – Thurs. 8:00 am – 3:30 pm
m.washburn@brooklynct.org

From: Ernie Cotnoir <ecotnoir@maherandcotnoir.com>
Sent: Monday, August 28, 2023 2:32 PM
To: Margaret Washburn <M.Washburn@Brooklynct.org>
Subject: Order to Correct Violations, Church Street, Brooklyn

Ms. Washburn:

Attached is correspondence responding to the above referenced matter.

Thank you.

Ernest J. Cotnoir, Esq.
Maher and Cotnoir
PO Box 187
Putnam, CT 06260
(860)928-9694
Facsimile (860)928-9459

From: Jake Kausch <ajkausch@yahoo.com>
Sent: Thursday, August 31, 2023 12:17 PM
To: Margaret Washburn <M.Washburn@Brooklynct.org>
Subject: 411 church st

Attached is picture of millings cleared from the pipe. Also there is a picture of a tree that ever source cut down and left after a branch fell on power lines, just to let you know we didn't cut and leave it.

Sent from my iPhone





\$150 Appl \$60 State
\$250 Sig Act \$150 Pub
Total \$610.00
#3215

INLAND WETLANDS & WATERCOURSES COMMISSION
TOWN OF BROOKLYN, CONECTICUT

RECEIVED
Date SEP - 5 2023

Application # IWWC 23-010

APPLICATION -- INLAND WETLANDS & WATERCOURSES

APPLICANT A. Karsch & Son's MAILING ADDRESS 15 BEACH VIEW EXT VOLUNTOON CT
APPLICANT'S INTEREST IN PROPERTY OWNER PHONE 860 230-7928 EMAIL _____

PROPERTY OWNER IF DIFFERENT _____ PHONE _____
MAILING ADDRESS _____ EMAIL _____

ENGINEER/SURVEYOR (IF ANY) Archer Surveying LLC
ATTORNEY (IF ANY) _____

PROPERTY LOCATION/ADDRESS CHURCH STREET
MAP # 37 LOT # 21 ZONE RA TOTAL ACRES 4.18 ACRES OF WETLANDS ON PROPERTY 2.9

PURPOSE AND DESCRIPTION OF THE ACTIVITY RESIDENTIAL DEVELOPMENT - SINGLE FAMILY
HOME, SEPTIC SYSTEM, WELL, DRIVEWAY, MINOR GRADING

WETLANDS EXCAVATION AND FILL:

FILL PROPOSED _____ CUBIC YDS. _____ SQ FT 1,800

EXCAVATION PROPOSED _____ CUBIC YDS. _____ SQ FT 300

LOCATION WHERE MATERIAL WILL BE PLACED: ON SITE ☒ OFF SITE _____

TOTAL REGULATED AREA ALTERED: SQ FT 2,100 ACRES 0.05 WETLAND
37,000 UPLANDS

EXPLAIN ALTERNATIVES CONSIDERED (REQUIRED): BEST OPTION FOR DRIVEWAY
WITH LEAST IMPACT ON THE WETLANDS

MITIGATION MEASURES (IF REQUIRED): WETLANDS/WATERCOURSES CREATED: CY 0 SQFT _____ ACRES _____

IS PARCEL LOCATED WITHIN 500FT OF AN ADJOINING TOWN? NO IF YES, WHICH TOWN(S) _____

IS THE ACTIVITY LOCATED WITHIN THE WATERSHED OF A WATER COMPANY AS DEFINED IN CT GENERAL STATUTES 25-32A? NO

THE OWNER AND APPLICANT HEREBY GRANT THE BROOKLYN IWWC, THE BOARD OF SELECTMAN AND THEIR AUTHORIZED AGENTS PERMISSION TO ENTER THE SUBJECT PROPERTY FOR THE PURPOSE OF INSPECTION AND ENFORCEMENT OF THE IWWC REGULATIONS OF THE TOWN OF BROOKLYN. IF THE COMMISSION DETERMINES THAT OUTSIDE REVIEW IS REQUIRED, APPLICANT WILL PAY CONSULTING FEE.

NOTE: DETERMINATION THAT THE INFORMATION PROVIDED IS INACCURATE MAY INVALIDATE THE IWWC DECISION AND RESULT IN ENFORCEMENT ACTION.

APPLICANT: [Signature] DATE 8-30-23

OWNER: [Signature] DATE 8-30-23

THE OWNER AND APPLICANT HEREBY GRANT THE BROOKLYN IWWC, THE BOARD OF SELECTMAN AND THEIR AUTHORIZED AGENTS PERMISSION TO ENTER THE SUBJECT PROPERTY FOR THE PURPOSE OF INSPECTION AND ENFORCEMENT OF THE IWWC REGULATIONS OF THE TOWN OF BROOKLYN. IF THE COMMISSION DETERMINES THAT OUTSIDE REVIEW IS REQUIRED, APPLICANT WILL PAY CONSULTING FEE.

NOTE: DETERMINATION THAT THE INFORMATION PROVIDED IS INACCURATE MAY INVALIDATE THE IWWC DECISION AND RESULT IN ENFORCEMENT ACTION.

APPLICANT: _____ DATE _____

OWNER: _____ DATE _____

REQUIREMENTS

_____ STANDARD APPLICATION FEE \$ (\$150) _____ STATE FEE (\$60) _____ CHECK # _____

_____ NOTICE OF ACTION PUBLICATION FEE \$ _____ CHECK # _____

_____ PUBLIC HEARING PUBLICATION FEE (\$100) \$ _____ (SUBJECT TO CHANGE DEPENDING ON PAPER) CHECK# _____

_____ SIGNIFICANT ACTIVITY FEE (PUBLIC HEARING) (\$250) \$ _____ CHECK # _____

_____ COMPLETION OF CT DEEP REPORTING FORM

_____ ORIGINAL PLUS COPIES OF ALL MATERIALS REQUIRED - **NUMBER TO BE DETERMINED BY STAFF**

_____ PRE-APPLICATION MEETING WITH THE WETLANDS AGENT IS RECOMMENDED TO EXAMINE THE SCOPE OF THE ACTIVITY

_____ SITE PLAN SHOWING LOCATION OF THE WETLANDS WITH EXISTING AND PROPOSED CONDITIONS.
APPLICANT MAY BE REQUIRED TO HAVE A CERTIFIED **SOIL SCIENTIST IDENTIFY THE WETLANDS.**

_____ COMPLIANCE WITH THE CONNECTICUT EROSION & SEDIMENTATION CONTROL MANUAL

_____ IF THE PROPOSED ACTIVITY IS DEEMED TO BE A “SIGNIFICANT IMPACT ACTIVITY” A PUBLIC HEARING IS REQUIRED ALONG WITH THE FOLLOWING INFORMATION:
○ NAMES AND ADDRESSES OF ABUTTING PROPERTY OWNERS
○ ADDITIONAL INFORMATION AS CONTAINED IN IWWC REGULATIONS ARTICLE 7.6

ADDITIONAL INFORMATION/ACTION NEEDED:

OTHER APPLICATIONS MAY BE REQUIRED. CONTACT THESE AGENCIES FOR FURTHER INFORMATION:
APPLICATION TO STATE OF CONNECTICUT DEEP

INLAND WATER RESOURCES DIVISION
79 ELM ST.
HARTFORD, CT. 06106
1-860-424-3019

DEPARTMENT OF THE ARMY CORPS OF ENGINEERS
696 VIRGINIA ROAD
CONCORD, MA. 01742
1-860-343-4789

STAFF USE ONLY:

____ DECLARATORY RULING: AS OF RIGHT & NON-REGULATED USES (SEE IWWC REGULATIONS SECTION 4)

____ PERMIT REQUIRED:

____ AUTHORIZED BY STAFF/CHAIR (NO ACTIVITY IN WETLANDS/WATERCOURSE AND MINIMAL IMPACT)

____ CHAIR, BROOKLYN IWWC

____ WETLANDS OFFICER

____ AUTHORIZED BY IWWC

____ SIGNIFICANT ACTIVITY/PUBLIC HEARING

____ NO PERMIT REQUIRED

____ OUTSIDE OF UPLAND REVIEW AREA

____ NO IMPACT

____ CHAIR, BROOKLYN IWWC

____ WETLANDS OFFICER

____ TIMBER HARVEST



Statewide Inland Wetlands & Watercourses Activity Reporting Form

Please complete and mail this form in accordance with the instructions on pages 2 and 3 to:

DEEP Land & Water Resources Division, Inland Wetlands Management Program, 79 Elm Street, 3rd Floor, Hartford, CT 06106

Incomplete or incomprehensible forms will be mailed back to the inland wetlands agency.

PART I: Must Be Completed By The Inland Wetlands Agency

1. DATE ACTION WAS TAKEN: year: _____ month: _____

2. ACTION TAKEN (see instructions, only use one code): _____

3. WAS A PUBLIC HEARING HELD (check one)? yes ☐ no ☐

4. NAME OF AGENCY OFFICIAL VERIFYING AND COMPLETING THIS FORM:

(print name) _____ (signature) _____

PART II: To Be Completed By The Inland Wetlands Agency Or The Applicant

5. TOWN IN WHICH THE ACTION IS OCCURRING (print name): BROOKLYN

does this project cross municipal boundaries (check one)? yes ☐ no ☒

if yes, list the other town(s) in which the action is occurring (print name(s)): _____

6. LOCATION (see instructions for information): USGS quad name: DANIELSON or number: 43

subregional drainage basin number: _____

7. NAME OF APPLICANT, VIOLATOR OR PETITIONER (print name): A. KANSCH & SON'S

8. NAME & ADDRESS / LOCATION OF PROJECT SITE (print information): CHURCH ST

briefly describe the action/project/activity (check and print information): temporary ☐ permanent ☒ description: _____

HOUSE, SEPTIC SYSTEM, WELL, DRIVEWAY

9. ACTIVITY PURPOSE CODE (see instructions, only use one code): B

10. ACTIVITY TYPE CODE(S) (see instructions for codes): 1 2 9 12

11. WETLAND / WATERCOURSE AREA ALTERED (must provide acres or linear feet):

wetlands: 0.048 acres open water body: 0 acres stream: 0 linear feet

12. UPLAND AREA ALTERED (must provide acres): 0.80 acres

13. AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (must provide acres): 0 acres

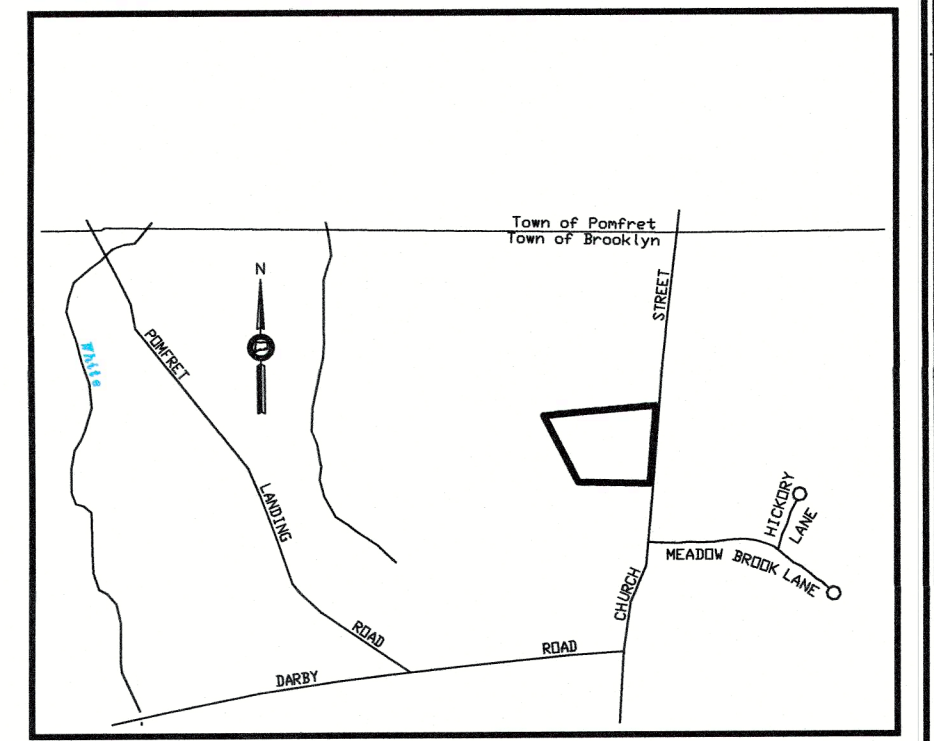
DATE RECEIVED:

PART III: To Be Completed By The DEEP

DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO

FORM CORRECTED / COMPLETED: YES NO



Location Map

SCALE
1" = 1000 FT

Notes

- This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Section 20-300b-20 and the "Standards for Surveys and Maps in State of Connecticut" as adopted by the Connecticut Associations of Land Surveyors, Inc. on September 26, 1996.
 - This Survey conforms to a Class "A-2" Horizontal Accuracy Class "T-2" Vertical Accuracy
 - Survey Type: Site Development Plan
 - Boundary Determination: Resurvey
 - Intent: Wetlands Crossing and work within the upland review area
- Parcels shown as lot 21 on Assessors Tax Map 37 of the Brooklyn Assessors Office
- Wetlands were flagged in the field by Robert Russo and field located by Archer Surveying LLC. Total Area of Wetlands flagged and located: 127,991 +/- Sq.Ft, 2.91 +/- Acres.
- Property is Located in the RA Zone:
 - Area: 87,120 Sq.Ft. // 2.0 Acres
 - Frontage: 150'
 - Front/Rear Setback: 50'
 - Side Setback: 40'
- There is no proposed regulated activities within 500' of the boundary of an adjoining municipality.
- The applicant is familiar with all the information provided in the application and is aware of the penalties for obtaining a permit through deception or through inaccurate or misleading information.
- Vertical Datum Depicted Hereon is Approximate North American Vertical Datum 1988 (NAVD88) Based on Global Positioning System
- North Orientation Depicted Hereon is approximate North American Datum 1983 (NAD83), Based on Global Positioning System Observation.
- Topographic features depicted were taken from NOAA Lidar Data and conforms to Topographic Accuracy Class "T-D", Contour Interval = 2', Vertical Datum = Approx. NAVD 88.

To my knowledge and belief, this map is substantially correct as noted herein.

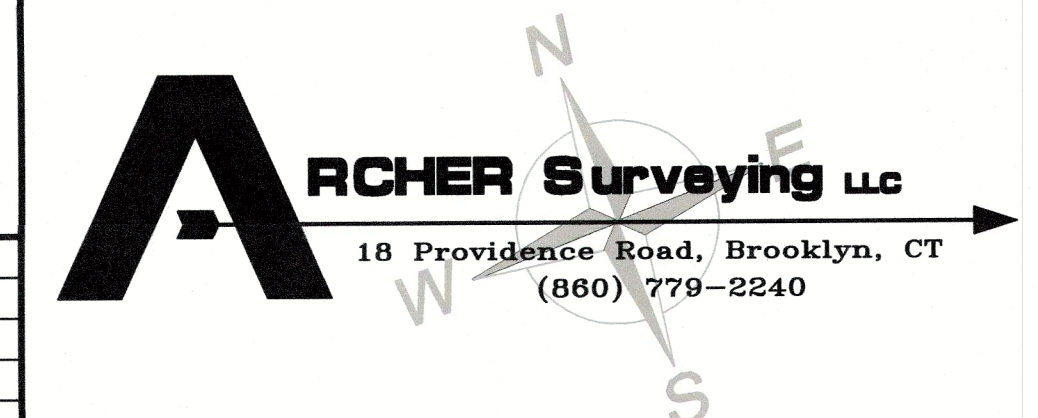
[Signature]
Paul J. Archer, Conn. L.S. #70013
8/30/2023

No certification is expressed or implied unless this map bears the embossed seal of the land surveyor whose signature appears hereon.

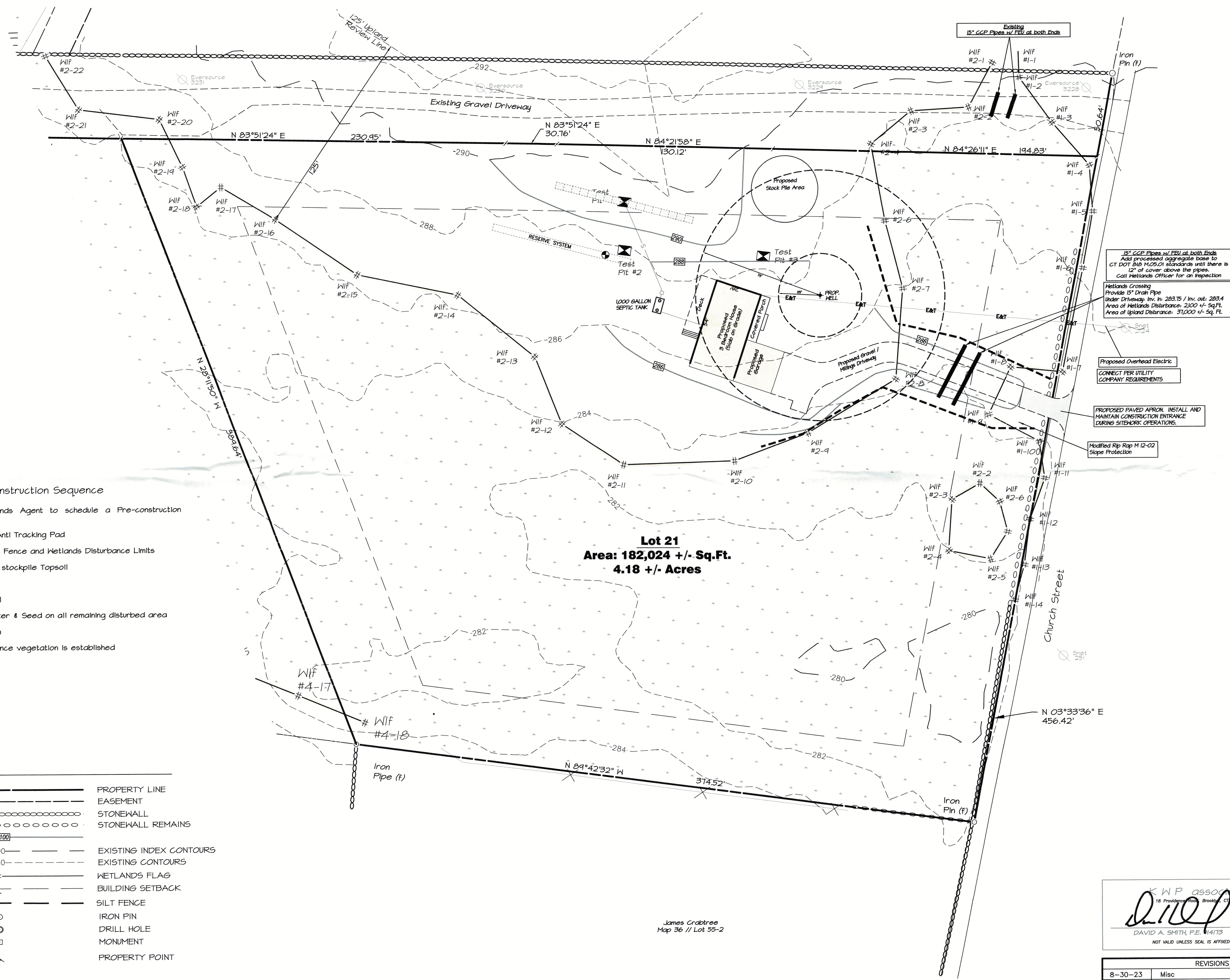
Site Development Plan

Prepared For:
A. Kausch & Sons LLC
Church Street & Pomfret Landing
Brooklyn, Connecticut

DRAWING SCALE: 1"=30'



Sheet No. 1 OF 2 Project No. AS 2162 Date: Aug. 30, 2023



Lot 21
Area: 182,024 +/- Sq.Ft.
4.18 +/- Acres

James Crabtree
Map 36 // Lot 55-2

Driveway Construction Sequence

1. Notify Brooklyn Wetlands Agent to schedule a Pre-construction Meeting
2. Install Silt Fence and Anti Tracking Pad
3. Clear & Grub within Silt Fence and Wetlands Disturbance Limits
4. Remove & Temporarily stockpile Topsoil
5. Install Drainage Pipe
6. Install Driveway Gravel
7. Provide Topsoil Fertilizer & Seed on all remaining disturbed area
8. Prepared As Built plan
9. Remove E&S Control once vegetation is established

LEGEND

- | | |
|-----|-------------------------|
| --- | PROPERTY LINE |
| --- | EASEMENT |
| --- | STONEWALL |
| --- | STONEWALL REMAINS |
| --- | EXISTING INDEX CONTOURS |
| --- | EXISTING CONTOURS |
| --- | WETLANDS FLAG |
| --- | BUILDING SETBACK |
| --- | SILT FENCE |
| --- | IRON PIN |
| --- | DRILL HOLE |
| --- | MONUMENT |
| --- | PROPERTY POINT |
| --- | UTILITY POLE |

EROSION AND SEDIMENT CONTROL PLAN

REFERENCE IS MADE TO:

1. Connecticut Guidelines for Soil Erosion and Sediment Control 2002 (2002 Guidelines).
2. Soil Survey of Windham County Connecticut, U.S.D.A. Soil Conservation Service 1983.

DEVELOPMENT SCHEDULE (Individual Lots):

1. Prior to any work on site, the limits of disturbance shall be clearly flagged in the field by a Land Surveyor, licensed in the State of Connecticut. Once the limits of clearing are flagged, they shall be reviewed and approved by an agent of the Town.
2. Install and maintain erosion and sedimentation control devices as shown on these plans. All erosion control devices shall be inspected by the Town or its agent. Any additional erosion control devices required by the Town's Agent shall be installed and inspected prior to any construction on site. (See silt fence installation notes.)
3. Install construction entrance.
4. Construction will begin with clearing, grubbing and rough grading of the proposed site. The work will be confined to areas adjacent to the proposed building, septic system and driveway. Topsoil will be stockpiled on site and utilized during final grading.
5. Begin construction of the house, septic system and well.
6. Disturbed areas shall be seeded and stabilized as soon as possible to prevent erosion.
7. The site will be graded so that all possible trees on site will be saved to provide buffers to adjoining lots.

DEVELOPMENT CONTROL PLAN:

1. Development of the site will be performed by the individual lot owner, who will be responsible for the installation and maintenance of erosion and sediment control measures required throughout construction.
2. The sedimentation control mechanisms shall remain in place from start of construction until permanent vegetation has been established. The representative for the Town will be notified when sediment and erosion control structures are initially in place. Any additional soil & erosion control measures requested by the Town or its agent, shall be installed immediately. Once the proposed development, seeding and planting have been completed, the representative shall again be notified to inspect the site. The control measures will not be removed until this inspection is complete.
3. All stripping is to be confined to the immediate construction area. Topsoil shall be stockpiled so that slopes do not exceed 2 to 1. A hay bale sediment barrier is to surround each stockpile and a temporary vegetative cover shall be provided.
4. Dust control will be accomplished by spraying with water and if necessary, the application of calcium chloride.
5. The proposed planting schedule is to be adhered to during the planting of disturbed areas throughout the proposed construction site.
6. Final stabilization of the site is to follow the procedures outlined in "Permanent Vegetative Cover". If necessary a temporary vegetative cover is to be provided until a permanent cover can be applied.

SILT FENCE INSTALLATION AND MAINTENANCE:

1. Dig a 6" deep trench on the uphill side of the barrier location.
2. Position the posts on the downhill side of the barrier and drive the posts 1.5 feet into the ground.
3. Lay the bottom 6" of the fabric in the trench to prevent undermining and backfill.
4. Inspect and repair barrier after heavy rainfall.
5. Inspections will be made at least once per week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater to determine maintenance needs.
6. Sediment deposits are to be removed when they reach a height of 1 foot behind the barrier or half the height of the barrier and are to be deposited in an area which is not regulated by the Inland wetlands commission.
7. Replace or repair the fence within 24 hours of observed failure. Failure of the fence has occurred when sediment fails to be retained by the fence because:
 - the fence has been overtopped, undercut or bypassed by runoff water,
 - the fence has been moved out of position (knocked over), or
 - the geotextile has decomposed or been damaged.

HAY BALE INSTALLATION AND MAINTENANCE:

1. Bales shall be placed as shown on the plans with the ends of the bales tightly abutting each other.
2. Each bale shall be securely anchored with at least 2 stakes and gaps between bales shall be wedged with straw to prevent water from passing between the bales.
3. Inspect bales at least once per week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inches or greater to determine maintenance needs.
4. Remove sediment behind the bales when it reaches half the height of the bale and deposit in an area which is not regulated by the Inland Wetlands Commission.
5. Replace or repair the barrier within 24 hours of observed failure. Failure of the barrier has occurred when sediment fails to be retained by the barrier because:
 - the barrier has been overtopped, undercut or bypassed by runoff water,
 - the barrier has been moved out of position, or
 - the hay bales have deteriorated or been damaged.

TEMPORARY VEGETATIVE COVER:

SEED SELECTION

Kentucky Blue Grass 0.45 lb /1000 sf, Creeplay Red Fescue 0.45 lbs / 1000 sf, Perennial Ryegrass 0.10 lbs /1000 sf

TIMING CONSIDERATIONS

Seed with a temporary seed mixture within 7 days after the suspension of grading work in disturbed areas where the suspension of work is expected to be more than 30 days but less than 1 year.

SITE PREPARATION

Install needed erosion control measures such as diversions, grade stabilization structures, sediment basins and grassed waterways.

Grade according to plans and allow for the use of appropriate equipment for seedbed preparation, seeding, mulch application, and mulch anchoring.

SEEDBED PREPARATION

Loosen the soil to a depth of 3-4 inches with a slightly roughened surface. If the area has been recently loosened or disturbed, no further roughening is required. Soil preparation can be accomplished by tracking with a bulldozer, disking, harrowing, raking or dragging with a section of chain link fence. Avoid excessive compaction of the surface by equipment traveling back and forth over the surface. If the slope is tracked, the cleat marks shall be perpendicular to the anticipated direction of the flow of surface water.

If soil testing is not practical or feasible on small or variable sites, or where timing is critical, fertilizer may be applied at the rate of 300 pounds per acre or 1.5 pounds per 1000 square feet of 10-10-10 or equivalent. Additionally, lime may be applied using rates given in Figure 15-1 in the 2002 Guidelines.

SEEDINGS

Apply seed uniformly by hand cyclone seeder, drill, cultipacker type seeder or hydroseeder at a minimum rate for the selected species. Increase seeding rates by 10% when hydroseeding.

MULCHING

Temporary seedlings made during optimum seeding dates shall be mulched according to the recommendations in the 2002 Guidelines. When seeding outside of the recommended dates, increase the application of mulch to provide 95%-100% coverage.

MAINTENANCE

Inspect seeded area at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater for seed and mulch movement and fill erosion.

Where seed has moved or where soil erosion has occurred, determine the cause of the failure. Repair eroded areas and install additional controls if required to prevent recurrence of erosion.

Continue inspections until the grasses are firmly established. Grasses shall not be considered established until a ground cover is achieved which is mature enough to control soil erosion and to survive severe weather conditions (approximately 80% vegetative cover).

PERMANENT VEGETATIVE COVER:

Refer to Permanent Seeding Measure in the 2002 Guidelines for specific applications and details related to the installation and maintenance of a permanent vegetative cover. In general, the following sequence of operations shall apply:

1. Topsoil will be replaced once the excavation and grading has been completed. Topsoil will be spread at a minimum compacted depth of 4".
2. Once the topsoil has been spread, all stones 2" or larger in any dimension will be removed as well as debris.
3. Apply agricultural ground limestone at a rate of 2 tons per acre or 100 lbs. per 1000 s.f. Apply 10-10-10 fertilizer or equivalent at a rate of 300 lbs. per acre or 1.5 lbs. per 1000 s.f. Work lime and fertilizer into the soil to a depth of 4".
4. Inspect seedbed before seeding. If traffic has compacted the soil, refill compacted areas.
5. Apply the chosen grass seed mix. The recommended seeding dates are: April 1 to June 15 & August 15 - October 1.
6. Following seeding, firm seedbed with a roller. Mulch immediately following seeding. If a permanent vegetative stand cannot be established by September 30, apply a temporary cover on the topsoil such as netting, mat or organic mulch.

EROSION AND SEDIMENT CONTROL NARRATIVE:

PRINCIPLES OF EROSION AND SEDIMENT CONTROL

The primary function of erosion and sediment controls is to absorb erosional energies and reduce runoff velocities that force the detachment and transport of soil and/or encourage the deposition of eroded soil particles before they reach any sensitive area.

KEEP LAND DISTURBANCE TO A MINIMUM

The more land that is in vegetative cover, the more surface water will infiltrate into the soil, thus minimizing stormwater runoff and potential erosion. Keeping land disturbance to a minimum not only involves minimizing the extent of exposure at any one time, but also the duration of exposure. Phasing sequencing and construction scheduling are interrelated. Phasing divides a large project into distinct sections where construction work over a specific area occurs over distinct periods of time and each phase is not dependent upon a subsequent phase in order to be functional. A sequence is the order in which construction activities are to occur during any particular phase. A sequence should be developed on the premise of "first things first" and "last things last" with proper attention given to the inclusion of adequate erosion and sediment control measures. A construction schedule is a sequence with time lines applied to it and should address the potential overlap of actions in a sequence which may be in conflict with each other.

- Limit areas of clearing and grading. Protect natural vegetation from construction equipment with fencing, tree armoring, and retaining walls or tree wells.
- Route traffic patterns within the site to avoid existing or newly planted vegetation.
- Phase construction so that areas which are actively being developed at any one time are minimized and only that area under construction is exposed. Clear only those areas essential for construction.
- Sequence the construction of storm drainage systems so that they are operational as soon as possible during construction. Ensure all outlets are stable before outletting storm drainage flow into them.
- Schedule construction so that final grading and stabilization is completed as soon as possible.

SLOW THE FLOW

Detachment and transport of eroded soil must be kept to a minimum by absorbing and reducing the erosive energy of water. The erosive energy of water increases as the volume and velocity of runoff increases. The volume and velocity of runoff increases during development as a result of reduced infiltration rates caused by the removal of existing vegetation, removal of topsoil, compaction of soil and the construction of impervious surfaces.

- Use diversions, stone dikes, silt fences and similar measures to break flow lines and dissipate storm water energy.
- Avoid diverting one drainage system into another without calculating the potential for downstream flooding or erosion.

KEEP CLEAN RUNOFF SEPARATED

Clean runoff should be kept separated from sediment laden water and should not be directed over disturbed areas without additional controls. Additionally, prevent the mixing of clean off-site generated runoff with sediment laden runoff generated on-site until after adequate filtration of on-site waters has occurred.

- Segregate construction waters from clean water.
- Divert site runoff to keep it isolated from wetlands, watercourses and drainage ways that flow through or near the development until the sediment in that runoff is trapped or detained.

REDUCE ON SITE POTENTIAL INTERNALLY AND INSTALL PERIMETER CONTROLS

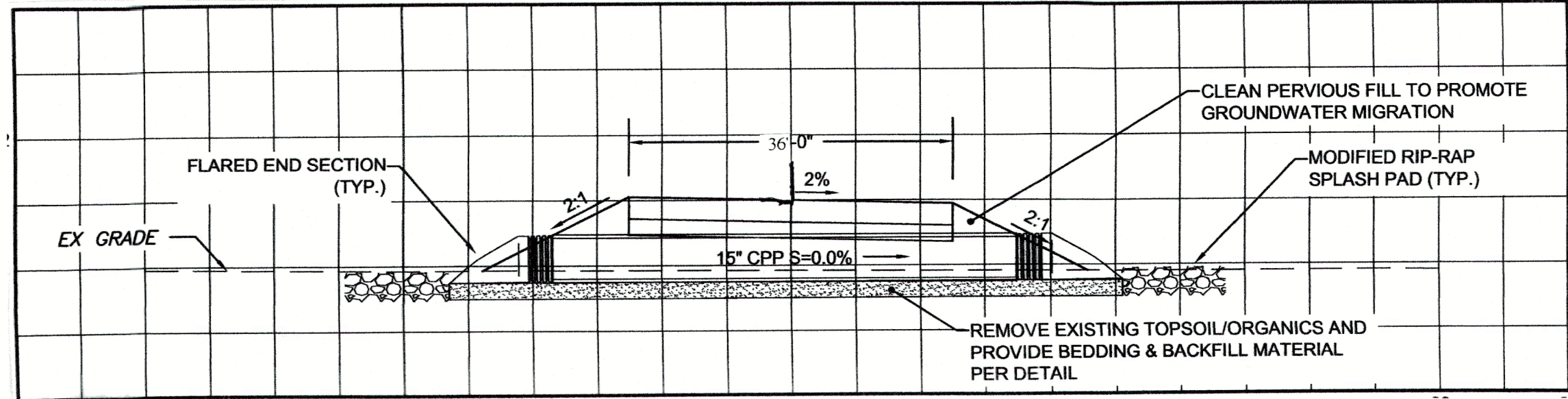
While it may seem less complicated to collect all waters to one point of discharge for treatment and just install a perimeter control, it can be more effective to apply internal controls to many small sub-drainage basins within the site. By reducing sediment loading from within the site, the chance of perimeter control failure and the potential off-site damage that it can cause is reduced. It is generally more expensive to correct off-site damage than it is to install proper internal controls.

- Control erosion and sedimentation in the smallest drainage area possible. It is easier to control erosion than to contend with sediment after it has been carried downstream and deposited in unwanted areas.
- Direct runoff from small disturbed areas to adjoining undisturbed vegetated areas to reduce the potential for concentrated flows and increase settlement and filtering of sediments.
- Concentrated runoff from development should be safely conveyed to stable outlets using rip rapped channels, waterways, diversions, storm drains or similar measures.
- Determine the need for sediment basins. Sediment basins are required on larger developments where major grading is planned and where it is impossible or impractical to control erosion at the source. Sediment basins are needed on large and small sites when sensitive areas such as wetlands, watercourses, and streets would be impacted by off-site sediment deposition. Do not locate sediment basins in wetlands or permanent or intermittent watercourses. Sediment basins should be located to intercept runoff prior to its entry into the wetland or watercourse.
- Grade and landscape around buildings and septic systems to divert water away from them.

SEPTIC SYSTEM CONSTRUCTION NOTES

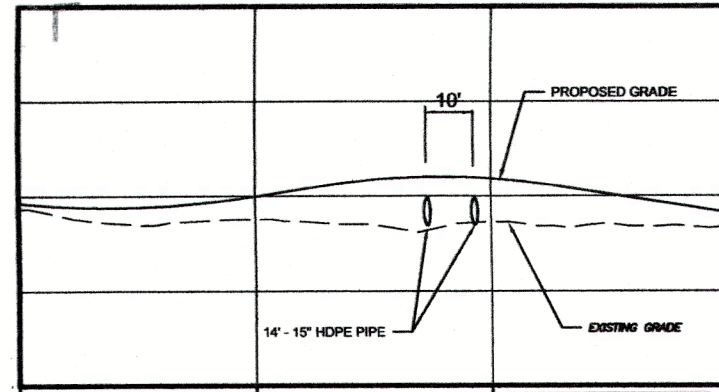
1. The building, septic system and well shall be accurately staked in the field by a licensed Land Surveyor in the State of Connecticut, prior to construction.
2. Topsoil shall be removed and in the area of the primary leaching field scarified, prior to placement of septic fill. Septic fill specifications are as follows:
 - Max. percent of gravel (material between No. 4 & 3 inch sieves) = 45%

- GRADATION OF FILL (MINUS GRAVEL)
- | SIEVE SIZE | PERCENT PASSING (WET SIEVE) | PERCENT PASSING (DRY SIEVE) |
|------------|-----------------------------|-----------------------------|
| No. 4 | 100% | 100% |
| No. 10 | 10% - 100% | 10% - 100% |
| No. 40 | 10% - 50% | 10% - 75% |
| No. 100 | 0% - 20% | 0% - 5% |
| No. 200 | 0% - 5% | 0% - 2.5% |
- Fill material shall be approved by the sanitarian prior to placement. It shall be compacted in 6" lifts and shall extend a minimum of ten feet (10') beyond the last leaching trench before tapering off.
3. Septic tank shall be two compartment precast 1250 gallon tank with gas deflector and outlet filter as manufactured by Jolley Precast, Inc. or equal.
 4. Distribution boxes shall be 4 hole precast concrete as manufactured by Jolley Precast, Inc. or equal.
 5. All precast structures such as septic tanks, distribution boxes, etc. shall be set level on six inches (6") of compacted gravel base at the elevations specified on the plans.
 6. Solid distribution pipe shall be 4" diameter PVC meeting ASTM D-3034 SDR 35 with compression gasket joints. It shall be laid true to the lines and grades shown on the plans and in no case have a slope less than 0.125 inches per foot.
 7. Perforated distribution pipe shall be 4" diameter PVC meeting ASTM D-2121 or ASTM D-3350, 1500 lb. minimum crush.
 8. Sewer pipe from the foundation wall to the septic tank shall be schedule 40 PVC meeting ASTM D 1785. It shall be laid true to the grades shown on the plans and in no case shall have a slope less than 0.25 inches per foot.



Wetlands Crossing

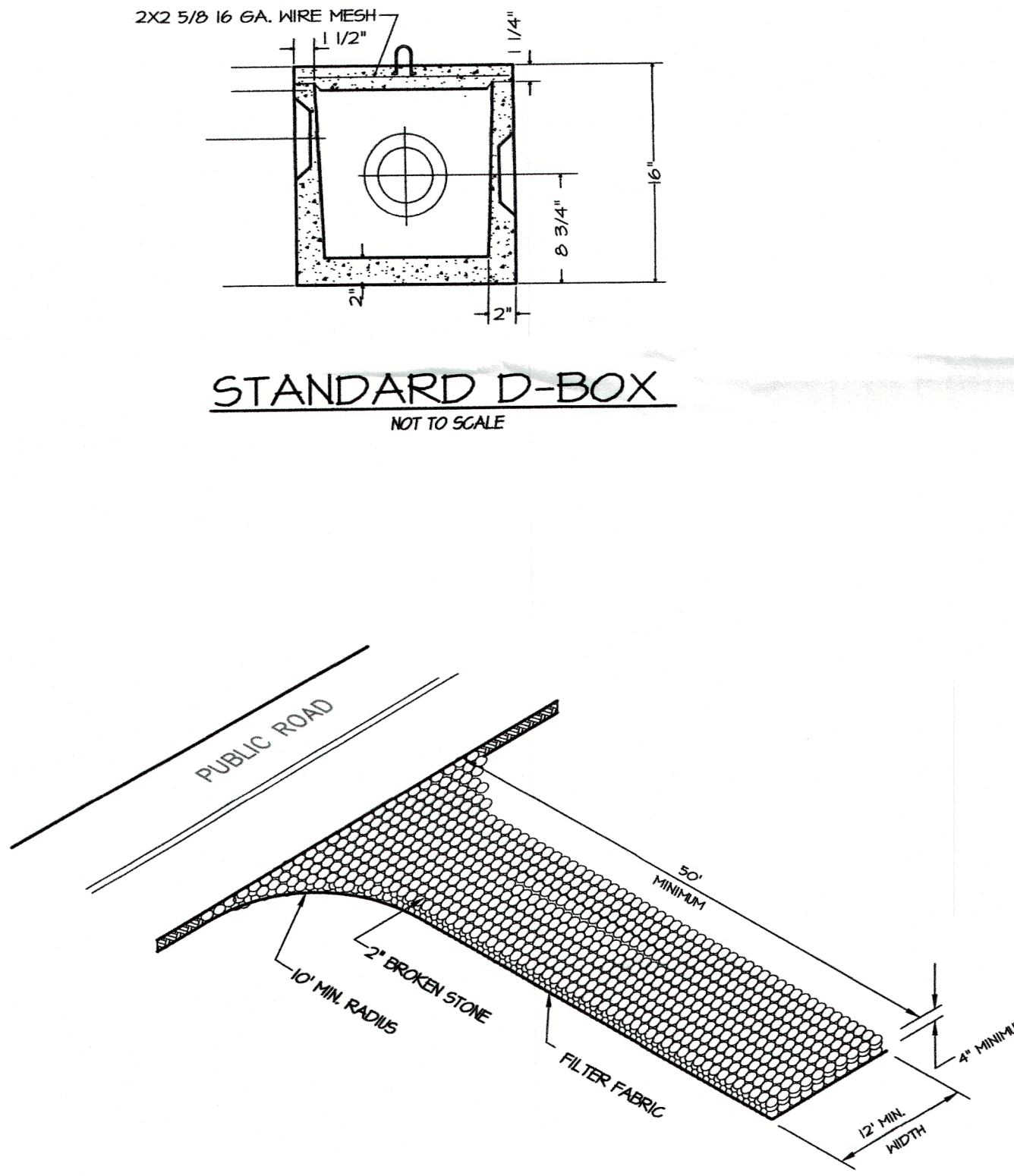
Scale: 1"=4'



Wetlands Crossing

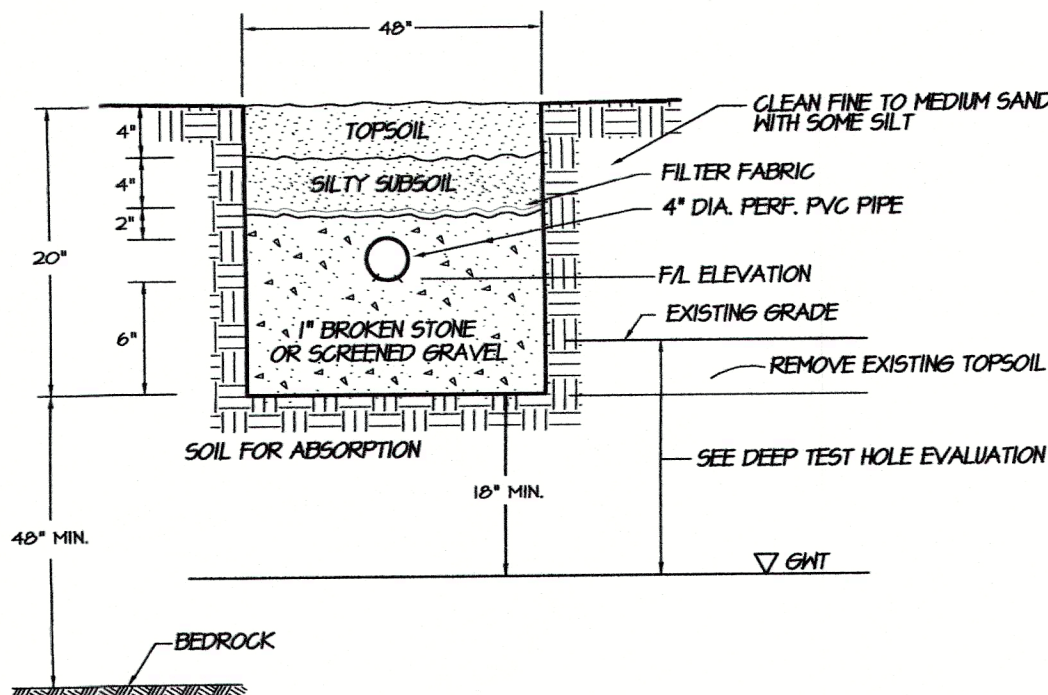
Horiz Scale: 1" = 4'

Vert. Scale: 1" = 10'



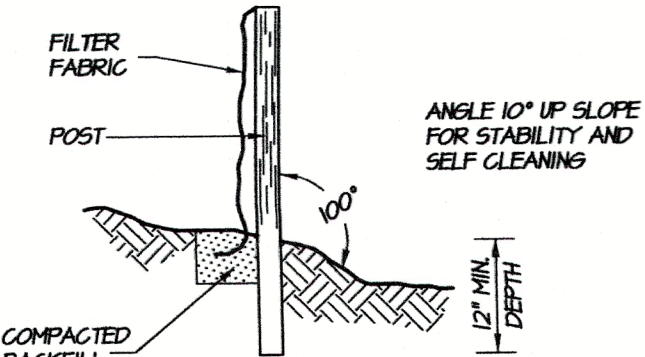
STANDARD D-BOX

NOT TO SCALE



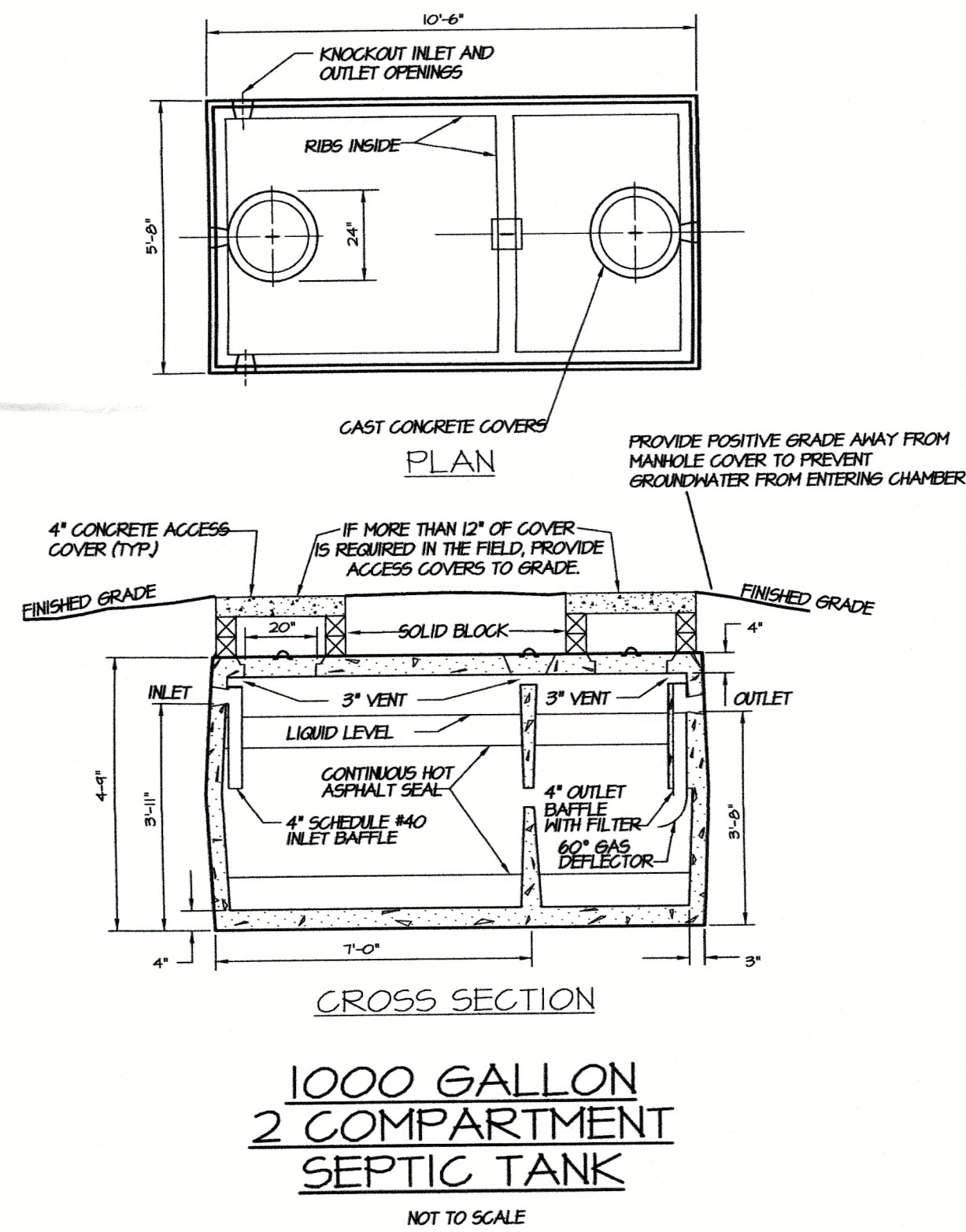
TYPICAL LEACHING TRENCH SECTION

NOT TO SCALE



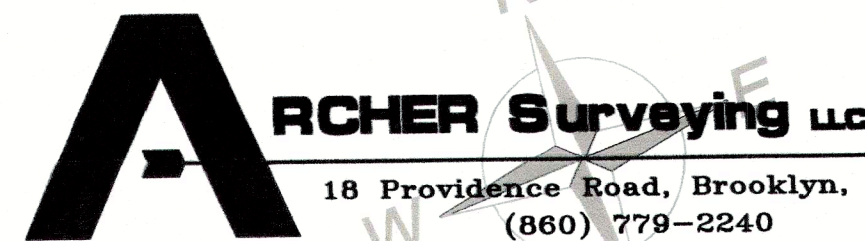
SILT FENCE

NOT TO SCALE



Site Development Plan

Prepared For:
A. Kausch & Sons LLC
Church Street
Brooklyn, Connecticut



Sheet No. 2 OF 2 Project No. AS 2162 Date: July 5, 2023

ARCHER

Surveying LLC

Town of Brooklyn

Inland Wetlands Budget FY24

From Date: 8/1/2023

To Date: 8/31/2023

Fiscal Year: 2023-2024

☐ Subtotal by Collapse Mask

☐ Include pre encumbrance

☒ Print accounts with zero balance

☒ Filter Encumbrance Detail by Date Range

☐ Exclude Inactive Accounts with zero balance

Account Number	Description	GL Budget	Range To Date	YTD	Balance	Encumbrance	Budget Balance	% Bud
1005.41.4163.51900	Inland Wetlands-Wages-Recordin	\$1,000.00	\$175.00	\$262.50	\$737.50	\$0.00	\$737.50	73.75%
1005.41.4163.53020	Inland Wetlands-Legal Fees	\$3,500.00	\$0.00	\$0.00	\$3,500.00	\$0.00	\$3,500.00	100.00%
1005.41.4163.53200	Inland Wetlands-Professional A	\$65.00	\$0.00	\$0.00	\$65.00	\$0.00	\$65.00	100.00%
1005.41.4163.53400	Inland Wetlands-Professional S	\$500.00	\$0.00	\$0.00	\$500.00	\$0.00	\$500.00	100.00%
1005.41.4163.55400	Inland Wetlands-Advertising &	\$500.00	\$0.00	\$0.00	\$500.00	\$0.00	\$500.00	100.00%
1005.41.4163.55500	Inland Wetlands-Printing & Pub	\$120.00	\$0.00	\$0.00	\$120.00	\$0.00	\$120.00	100.00%
1005.41.4163.56900	Inland Wetlands-Other Supplies	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
Grand Total:		\$5,685.00	\$175.00	\$262.50	\$5,422.50	\$0.00	\$5,422.50	95.38%

End of Report