Brooklyn Inland Wetlands Commission
Regular Meeting Agenda
Tuesday, September 14, 2021
Web Ex and In-Person Meeting
Clifford B. Green Memorial Center
69 South Main Street
6:00 p.m.

To join this meeting via the web or phone, follow the below instructions:

Web
www.webex.com
On the top right, click Join
Enter meeting information: 126 058 8201
Enter meeting password: gRAPe88439
Click join meeting

Phone
Dial 1-415-655-0001
Enter meeting number 126 058 8201
Enter password: 47273884

Call to Order:

Roll Call:

Seating of Alternates:

Election of Officers:

Public Commentary:

Additions to Agenda:

Approval of Minutes:

1. Regular Meeting Minutes July 13, 2021.
   August meeting cancelled due to lack of quorum.

Public Hearings:

1. 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.

Old Business:

1. 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.

2. 181 Paradise Drive – Shane O'Connor. Complaint.

3. 35 Kara Road – Deborah Love. Complaint.

Communications:

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

Public Commentary:

Adjourn:

Richard Oliverson, Vice Chairman

LEGEND

- PROPERTY LINE
- PROPOSED PROPERTY LINE
- EASEMENT
- STONEWALL
- STONEWALL REMAINS
- EXISTING INDEX CONTOURS (100)
- EXISTING CONTOURS (100)
- WETLANDS FLAG
- BUILDING SETBACK
- SILT FENCE (SF)
- IRON PIN
- DRILL HOLE
- MONUMENT
- PROPERTY POINT
- UTILITY POLE (CL&P 1645)

Connecticut Grid

Map References

1. Town of Brooklyn, Plan showing land acquired from Annie Weldon by The State of Connecticut, Brooklyn - Pomfret Landing Rd, Scale: 1"=40', Date: September 1935

2. Plan of Brooklyn Manor, Darby Road and New Kimball Road, Brooklyn, Connecticut, Scale: 1"=40', Date: April 1980, Prepared by Kieltyka, Woodis & Pike

3. Subdivision Map "White Brook Estates" Prepared for Eric Lehto, Church Street, Brooklyn, Connecticut, Date: June 2004, Scale: 1"=50', Prepared by Provost and Rovero Inc.

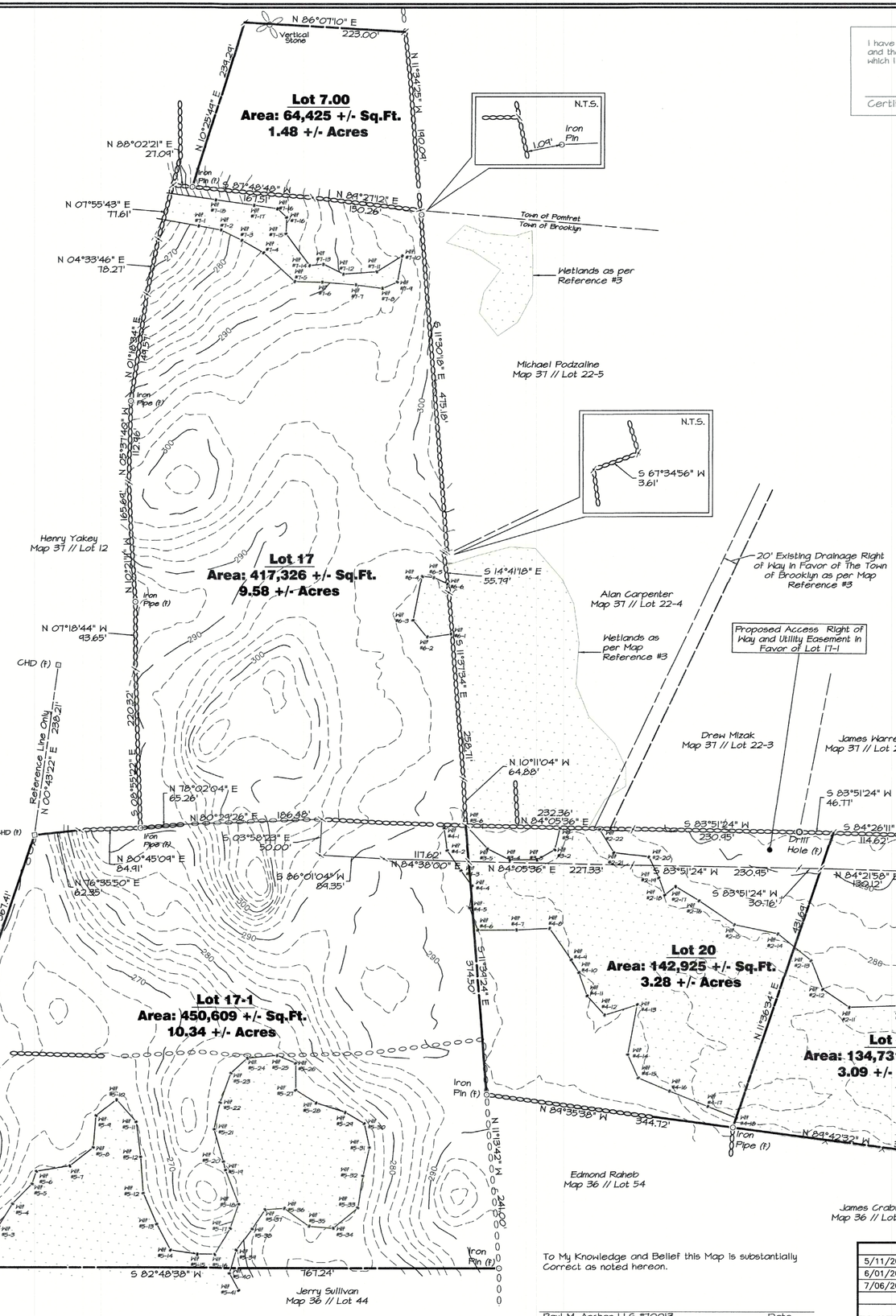
4. Plat of Bounds on Pomfret-Brooklyn Town Line, as Found 1930 and 1931, Scale: 80 Rods (1320') to Inch, Prepared by G. Perry

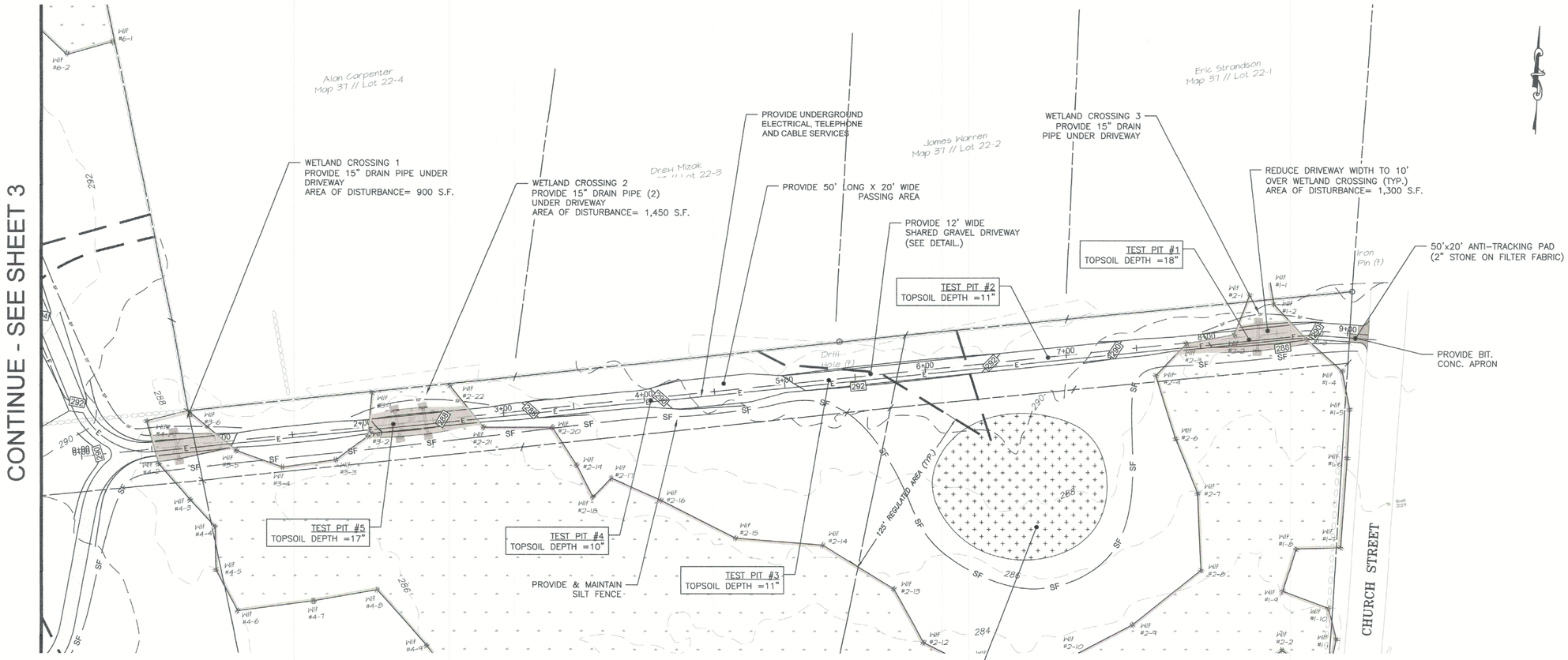
5. Map Showing Subdivision For Leonard Bissonnette, Pomfret Landing Road, Brooklyn, Connecticut, Scale: 1"=40', Date: November 1973

6. Perimeter Survey Prepared for Jerry & Deb Sullivan, 28 Pomfret Land Road, Brooklyn, Connecticut, Date: September 2010, Scale: 1"=40', Prepared by Archer Surveying LLC

7. Property Survey - Boundary Line Modification, Prepared for A.Kausch and Sons LLC, Church Street/Pomfret Landing, Brooklyn, Connecticut, Date: April 2021, Scale: 1"=80', Prepared by Archer Surveying LLC

8. Property Survey - "First Time Split", Prepared for A. Kausch and Sons LLC, Church Street/Pomfret Landing, Brooklyn, Connecticut, Date: April 2021, Scale: 1"=80', Prepared by Archer Surveying LLC


Lot 7.00
Area: 64,425 +/- Sq.Ft.
1.48 +/- Acres
Lot 17
Area: 417,326 +/- Sq.Ft.
9.58 +/- Acres
Lot 17-1
Area: 450,609 +/- Sq.Ft.
10.34 +/- Acres
Lot 20
Area: 142,925 +/- Sq.Ft.
3.28 +/- Acres
Lot 21
Area: 134,731 +/- Sq.Ft.
3.09 +/- Acres
N 86°07'10" E 223.00'
N 10°25'44" E 239.29'
N 03°34'25" W 190.09'
N 88°02'21" E 21.09'
N 07°55'43" E 77.61'
N 04°33'46" E 78.27'
N 01°18'34" E 124.57'
N 02°37'40" W 112.96'
N 02°12'16" W 165.64'
N 07°18'44" W 93.65'
S 11°30'18" E 475.18'
S 14°41'18" E 55.79'
S 11°19'34" E 250.11'
S 11°39'24" E 314.50'
N 11°36'34" E 431.49'
N 03°33'36" E 456.42'
N 84°35'58" W 344.72'
N 84°42'32" W 314.52'
S 82°48'38" W 767.24'
N 11°13'42" W 241.00'
N 11°42'13" E 367.41'
N 10°11'04" W 64.88'
N 78°02'04" E 65.26'
N 80°29'26" E 186.38'
S 03°58'23" E 50.00'
N 80°45'09" E 84.91'
N 76°35'50" E 62.35'
S 86°01'04" W 84.35'
N 84°38'00" E 117.60'
N 84°05'36" E 232.36'
N 84°05'36" E 227.33'
S 83°51'24" W 230.45'
S 83°51'24" W 30.16'
S 83°51'24" W 46.77'
S 84°26'11" W 114.62'
S 84°26'11" W 202.86'
N 84°21'58" E 120.12'
N 84°26'11" E 144.83'
N 84°26'11" E 110.64'
N 84°26'11" E 110.64'
N 84°26'11" E 110.64



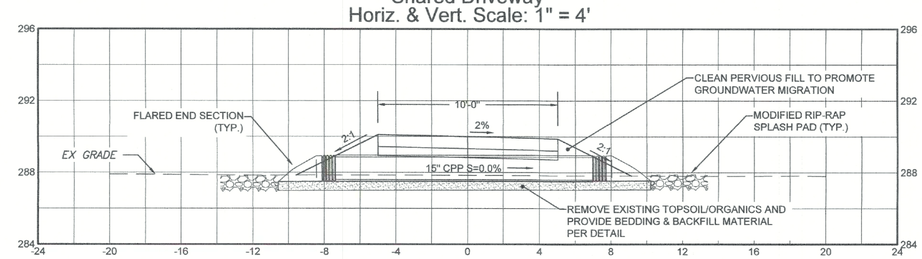
PLAN

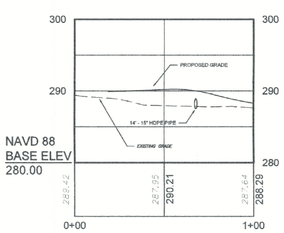
40' 0 40' 80'

SCALE: 1"=40'

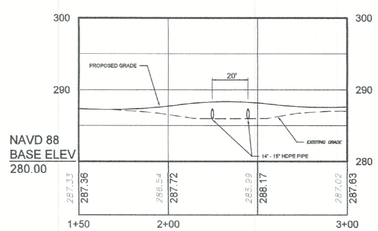
NOTE:
TEST HOLES IN PROPOSED DRIVEWAY WERE OBSERVED ON 5-18-21 AT THE APPROXIMATE LOCATIONS SHOWN ABOVE. INDICATIONS OF SEASONAL HIGH GROUNDWATER DEPTH WAS OBSERVED BETWEEN 0-16" IN WETLAND AREAS, AND 16" AND GREATER IN UPLAND AREAS.

Wetland Crossing (Typical)
Shared Driveway
Horiz. & Vert. Scale: 1" = 4'

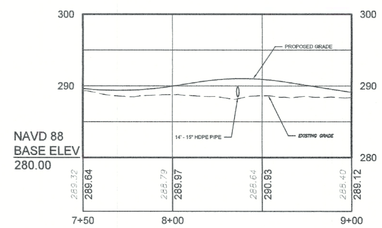




SHARED DRIVEWAY Wetland Crossing 1
STA 0+00 TO STA 1+00
Horiz. Scale= 1"= 40'
Vert. Scale= 1"= 10'



SHARED DRIVEWAY Wetland Crossing 2
STA 1+50 TO STA 3+00
Horiz. Scale= 1"= 40'
Vert. Scale= 1"= 10'



SHARED DRIVEWAY Wetland Crossing 3
STA 7+50 TO STA 9+00
Horiz. Scale= 1"= 40'
Vert. Scale= 1"= 10'

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

No.	DATE	REVISION
4	07/28/21	REGULATED AREA MODIFIED
3	07/06/21	MISCELLANEOUS REVISIONS
2	06/30/21	VARIOUS MODIFICATIONS
1	05/10/21	VARIOUS MODIFICATIONS

CLA Engineers, Inc.
CIVIL · STRUCTURAL · SURVEYING
317 Main Street Norwich, CT 06360
(860) 886-1966 Fax (860) 886-9165

STATE OF CONNECTICUT ROBERT A. DEPLEDGE 18192 LICENSED PROFESSIONAL ENGINEER

A. KAUSCH & SONS, LLC

LOTS 019-37-17, 019-37-20 & 019-37-21
CHURCH ST. SITE DEVELOPMENT
BROOKLYN, CT

GRADING & SITE DESIGN

Project No. CLA-6639
Proj. Engineer R.A.D.
Date: 04/30/21
Sheet No. 2 of 4

CLA

SELECT FILL SPECIFICATION

SELECT FILL PLACED WITHIN AND ADJACENT TO LEACHING SYSTEM AREAS SHALL BE COMPRISED OF CLEAN SAND, OR SAND AND GRAVEL, FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES. THE SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS PER THE CONNECTICUT PUBLIC HEALTH CODE FOR USE WITHIN THE LEACHING AREA:

1. THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THE THREE (3) INCH SLEEVE.
2. UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SLEEVE (THIS IS THE GRAVEL PORTION OF THE SAMPLE).
3. THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE SIEVE ANALYSIS STARTED.
4. THE REMAINING SAMPLE SHALL MEET THE FOLLOWING CRITERIA:

SIEVE SIZE	PERCENT PASSING WET SIEVE	DRY SIEVE
#4	100	100
#10	70–100	70–100
#40	10–50*	10–75
#100	0–20	0–5
#200	0–5	0–2.5

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

SEPTIC NOTES

1. PROPOSED SEPTIC SYSTEM TO BE STAKED IN THE FIELD BY A LAND SURVEYOR LICENSED IN THE STATE OF CONNECTICUT.
2. A BENCHMARK SHALL BE SET WITHIN 10'–15' OF THE PROPOSED SEPTIC SYSTEM PRIOR TO CONSTRUCTION.
3. ALL WORK AND MATERIAL (SEPTIC TANK, DISTRIBUTION BOX, PIPE) SHALL CONFORM TO THE CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEM.
4. SEWER LINE FROM FOUNDATION WALL TO SEPTIC TANK SHALL BE 4" SCHEDULE 40 PVC – ASTM D 1785 AND JOINTS PER HEALTH DEPT. CODE. PIPE FROM SEPTIC TANK TO DISTRIBUTION LINES SHALL BE 4" SOLID PVC CONFORMING TO STMD–3034 AND SDR–35.
5. SYSTEMS SHALL BE SET LEVEL FOR ENTIRE LENGTH AND HAVE A CENTER TO CENTER SPACING AS CALLED FOR IN THE CONNECTICUT PUBLIC HEALTH CODE. THERE ARE PRESENTLY NO KNOWN WATER WELLS WITHIN 75' OF THE PROPOSED SEPTIC SYSTEMS.
6. CLEAR AND GRUB THE AREA WHERE THE SEPTIC SYSTEMS AND HOUSES ARE TO BE CONSTRUCTED. ALL TOPSOIL IS TO BE STRIPPED AND STOCKPILED FOR FUTURE USE.
7. ALL FILL MATERIAL SHALL BE CLEAN EARTH FREE OF STUMPS, ORGANICS, CONSTRUCTION DEBRIS AND TOPSOIL.
8. TOPSOIL SHALL BE RE–APPLIED OVER ALL FILL AREAS AND ALL DISTURBED AREAS TO PROVIDE A MINIMUM DEPTH OF FOUR INCHES IN ACCORDANCE WITH THE SLOPE STABILIZATION DETAILS..

DEEP TEST PIT DATA / SOIL DESCRIPTIONS

PERFORMED BY: Donovan Moe

WITNESSED BY: NORTHEAST DISTRICT DEPARTMENT OF HEALTH DATE: 03/30/2021

TEST PIT: 1

0" - 10" Topsoil / Organics
10" - 16" Orange Brown Fine Sand Loam
16" - 34" Tan Compact Sand Loam
34" - 78" Grey Sand & Gravel

MOTTLES:	36"
GROUNDWATER:	66"
LEDGE:	NO
ROOTS:	46"
RESTRICTIVE:	NO

TEST PIT: 2

0" - 10" Topsoil / Organics
10" - 27" Dark Brown Fine Sand
27" - 48" Grey Compact Sand
48" - 70" Sand & Gravel

MOTTLES:	32"
GROUNDWATER:	62"
LEDGE:	NO
ROOTS:	32"
RESTRICTIVE:	NO

TEST PIT: 3

0" - 12" Topsoil / Organics
12" - 30" Tan Orange Fine Sand Loam
30" - 48" Grey Sand Layer
48" - 72" Sand & Gravel

MOTTLES:	30"
GROUNDWATER:	65"
LEDGE:	NO
ROOTS:	NO
RESTRICTIVE:	NO

TEST PIT: 4

0" - 10" Topsoil / Organics
10" - 24" Tan Orange Fine Sand Loam
24" - 80" Saturated Grey Sand & Gravel

MOTTLES:	28"
GROUNDWATER:	74"
LEDGE:	NO
ROOTS:	30"
RESTRICTIVE:	NO

PERCOLATION DATA

PERC 1 - DEPTH 23"

TIME	DROP (INCHES)
11:10	6.0
11:12	7.0
11:14	8.0
11:16	8.5
11:18	9.25
11:20	9.5
11:22	10.0
11:25	11.0
11:28	11.5
11:31	12.0

PERCOLATION RATE > 6.0 MIN./IN.

NOTES:
PERCOLATION TEST PERFORMED ON 3/30/2021
PERFORMED BY Donovan Moe

PERCOLATION DATA

PERC 2 - DEPTH 17"

TIME	DROP (INCHES)
11:04	6.25
11:10	8.25
11:16	9.75
11:22	10.625
11:34	12.125
11:46	13.125
11:58	14.625

PERCOLATION RATE > 8.0 MIN./IN.

NOTES:
PERCOLATION TEST PERFORMED ON 3/30/2021
PERFORMED BY Donovan Moe

CONCEPT SEPTIC SYSTEM DESIGN

PROPOSED LOT 1
PRIMARY LEACHING AREA
4 BEDROOM RESIDENCE
PERCOLATION RATE: 6.0 MIN./INCH (NDDH FILE #21000307)
LEACHING AREA REQUIRED: 557.5 SF

USE TRADITIONAL TRENCH
EFFECTIVE LEACHING AREA OF LEACHING TRENCH 3.0 SF/LF
REQUIRED LENGTH = 557.5 SF / 3 SF/LF = 186 LF

MLSS CALCULATION
HYDRAULIC FACTORS
DEPTH TO RESTRICTIVE LAYER = 32"
SLOPE = 5.0%
HYDRAULIC FACTOR (HF) = 32
FLOW FACTOR (FF) = 1.0
PERCOLATION FACTOR (PF) = 1.75 (LESS THAN 10.0 MIN./INCH)
MLSS REQUIRED: 32 x 1.0 x 1.75 = 52.5 LF

PROPOSED SYSTEM
USE 3 ROWS OF 65 LF
LEACHING AREA PROVIDED = 585 SF

RESERVE LEACHING AREA
USE SAME AS PRIMARY SYSTEM

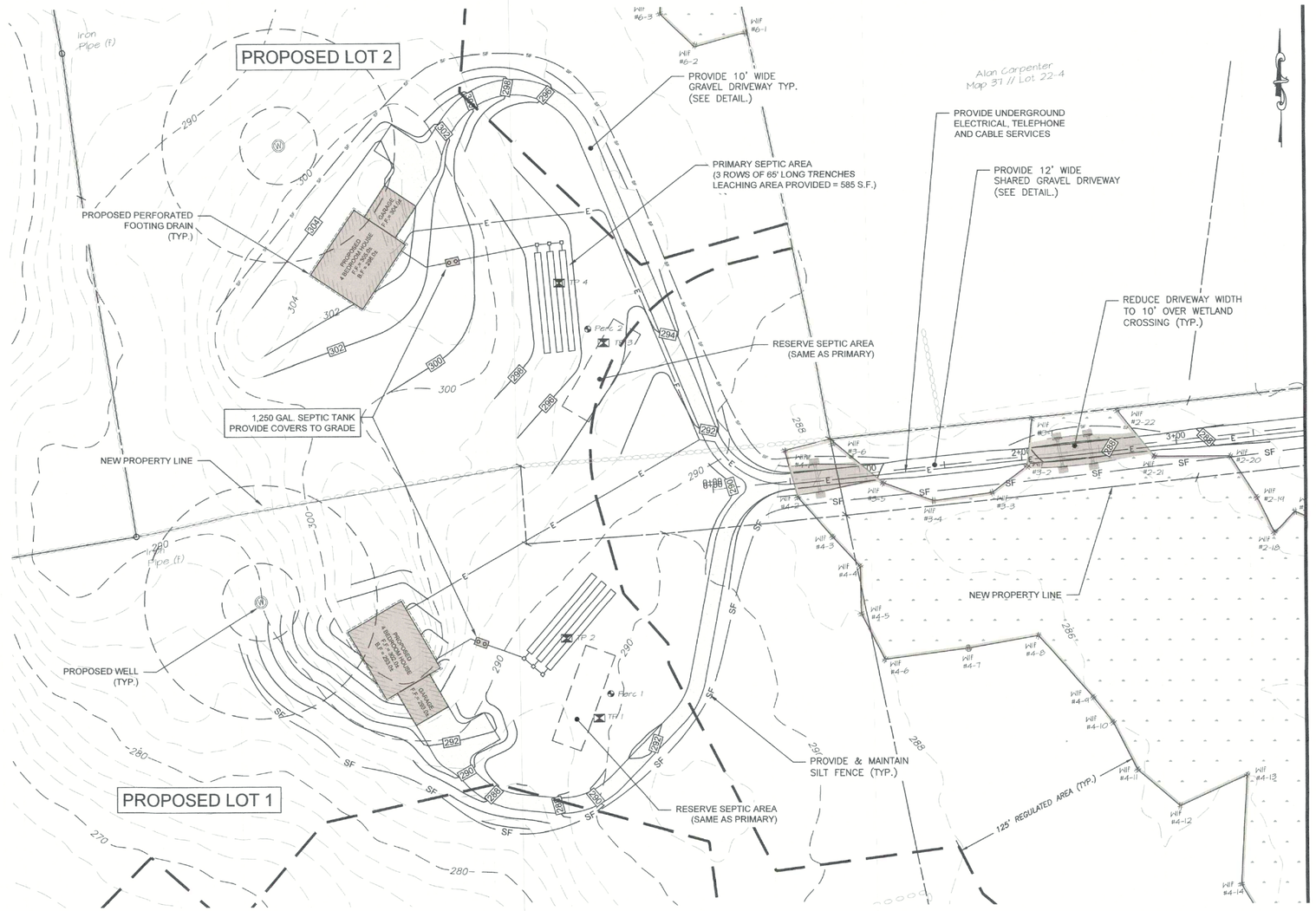
PROPOSED LOT 2
PRIMARY LEACHING AREA
4 BEDROOM RESIDENCE
PERCOLATION RATE: 8.0 MIN./INCH (NDDH FILE #21000307)
LEACHING AREA REQUIRED: 557.5 SF

USE TRADITIONAL TRENCH
EFFECTIVE LEACHING AREA OF LEACHING TRENCH 3.0 SF/LF
REQUIRED LENGTH = 557.5 SF / 3 SF/LF = 186 LF

MLSS CALCULATION
HYDRAULIC FACTORS
DEPTH TO RESTRICTIVE LAYER = 28"
SLOPE = 4.0%
HYDRAULIC FACTOR (HF) = 34
FLOW FACTOR (FF) = 1.0
PERCOLATION FACTOR (PF) = 1.75 (LESS THAN 10.0 MIN./INCH)
MLSS REQUIRED: 34 x 1.0 x 1.75 = 59.5 LF

PROPOSED SYSTEM
USE 3 ROWS OF 65 LF
LEACHING AREA PROVIDED = 585 SF

RESERVE LEACHING AREA
USE SAME AS PRIMARY SYSTEM



PLAN

40' 0 40' 80'
SCALE: 1"=40'

CONTINUE - SEE SHEET 2

ARCHER Surveying LLC
18 Providence Road, Brooklyn, CT
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No.	DATE	REVISION
3	07/28/21	REGULATED AREA MODIFIED
2	06/30/21	VARIOUS MODIFICATIONS
1	05/10/21	VARIOUS MODIFICATIONS

STATE OF CONNECTICUT ROBERT A. DEVINE 18786 REGISTERED PROFESSIONAL ENGINEER

CLA Engineers, Inc.
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(860) 886-1966 Fax (860) 886-9165

A. KAUSCH & SONS, LLC

LOTS 019-37-17, 019-37-20 & 019-37-21
CHURCH ST. SITE DEVELOPMENT
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Sheet No. 3 of 4

CLA

EROSION & SEDIMENTATION CONTROL NARRATIVE

1. THE EROSION & SEDIMENTATION CONTROL PLAN AND DETAILS HAVE BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEP.
2. THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL MEASURES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDED SILT FENCE, STONE CHECK DAMS AND/OR OTHER EROSION CONTROL MEASURES AS NEEDED OR DIRECTED BY THE ENGINEER OR TOWN STAFF TO ADEQUATELY PREVENT SEDIMENT TRANSPORT.
3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE.
4. THE CONTRACTOR SHALL INSPECT, REPAIR AND/OR REPLACE EROSION CONTROL MEASURES EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT. SEDIMENT DEPOSITS MUST BE REMOVED WHEN WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.
5. STAKED HAY BALE SILT BARRIERS OR SILT FENCE SHALL BE INSTALLED AROUND ANY TEMPORARY STOCKPILE AREAS. TEMPORARY VEGETATIVE COVER MAY BE REQUIRED (SEE NOTE).
6. INLET SEDIMENTATION CONTROL DEVICES SHALL BE INSTALLED UNDER THE GRATES OF ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION, AND UNDER THE GRATES OF EXISTING CATCH BASINS IN THE CONSTRUCTION AREA.
7. CONTINUOUS DUST CONTROL USING WATER, CALCIUM CHLORIDE OR APPROVED EQUAL SHALL BE PROVIDED FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS, SURFACES OF BACKFILLED TRENCHES AND GRAVELED ROADWAY SURFACES.
8. IF DEWATERING IS NECESSARY DURING ANY TIME OF CONSTRUCTION A CLEAR WATER DISCHARGE SHALL BE PROVIDED AS SHOWN IN THE HAY-BALE BARRIER DEWATERING DETAIL OR ALTERNATE METHOD PROPOSED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
9. ALL DISTURBED AREAS SHALL BE RESTORED PER THE SLOPE STABILIZATION AND PERMANENT VEGETATION DETAILS. ALL DISTURBED AREAS THAT ARE SLOPED LESS THAN THREE HORIZONTAL TO ONE VERTICAL (3:1) SLOPE SHALL BE LOAMED, SEEDED, FERTILIZED AND MULCHED PER THE PERMANENT VEGETATIVE COVER SPECIFICATIONS. EROSION CONTROL MATTING SHALL BE PROVIDED ON ALL DISTURBED AREAS THAT ARE SLOPED MORE THAN THREE HORIZONTAL TO ONE VERTICAL (3:1).
10. IF FINAL SEEDING OF DISTURBED AREAS IS NOT TO BE COMPLETED BEFORE OCTOBER 15, THE CONTRACTOR SHALL PROVIDE TEMPORARY MULCHING (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY PERMANENT SEEDING.
11. WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISHED GRADED SHALL BE COMPLETED PRIOR TO OCTOBER 15.
12. ANY EROSION WHICH OCCURS WITHIN THE DISTURBED AREAS SHALL BE IMMEDIATELY REPAIRED AND STABILIZED. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT SHALL BE RETURNED TO THE SITE. POST SEEDING, INTERCEPTED SEDIMENT, IF ANY, SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE TOWN AND ENGINEER.
13. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL VEGETATION IS RE-ESTABLISHED OR SLOPES ARE STABILIZED AND REMOVAL IS APPROVED BY THE TOWN.
14. UNFORESEEN PROBLEMS WHICH ARE ENCOUNTERED IN THE FIELD SHALL BE SOLVED ACCORDING TO THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEP.
15. THE CONTRACTOR SHALL PROVIDE THE NAME AND EMERGENCY CONTACT INFORMATION FOR THE PROJECT PERSONNEL RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROLS PRIOR TO THE START OF CONSTRUCTION.

NOTE: THE CONTRACTOR SHALL CONTINUALLY STORE THE FOLLOWING MATERIALS ONSITE DURING CONSTRUCTION TO MEET UNEXPECTED EROSION NEEDS

* 100 LF OF SILT FENCE
* 10 HAY BALES
* 10 CY OF WOOD CHIPS OR CRUSHED STONE

TEMPORARY VEGETATIVE COVER

A TEMPORARY SEEDING OF RYE GRASS WILL BE COMPLETED WITHIN 15 DAYS OF THE FORMATION OF STOCKPILES. IF THE SOIL IN THE STOCKPILES HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS IT SHALL BE LOOSENED TO A DEPTH OF 2 INCHES BEFORE THE FERTILIZER, LIME AND SEED IS APPLIED. 10-10-10 FERTILIZER AT A RATE OF 7.5 POUNDS PER 1000 S.F. LIMESTONE AT A RATE OF 90 LBS. PER 1000 S.F. SHALL BE USED. RYE GRASS APPLIED AT A RATE OF 1 LB. PER 1000 S.F. SHALL PROVIDE THE TEMPORARY VEGETATIVE COVER. STRAW FREE FROM WEEDS AND COARSE MATTER SHALL BE USED AT A RATE OF 70-90 LBS. PER 1000 S.F. AS A TEMPORARY MULCH. APPLY MULCH AND DRIVE TRACKED EQUIPMENT UP AND DOWN SLOPE OVER ENTIRE SURFACE SO CLEAT MARKS ARE PARALLEL TO THE CONTOURS.

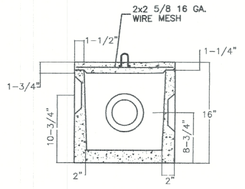
PERMANENT VEGETATIVE COVER

TOPSOIL WILL BE REPLACED ONCE THE EXCAVATIONS HAVE BEEN COMPLETED AND THE SLOPES ARE GRADED AS SHOWN ON THE PLANS. PROVIDE SLOPE PROTECTION AS CALLED FOR ON THE PLANS AND DETAILS. TOPSOIL SHALL BE SPREAD AT A MINIMUM COMPACTED DEPTH OF 4 INCHES. ONCE THE TOPSOIL HAS BEEN SPREAD, ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION WILL BE REMOVED AS WELL AS DEBRIS.

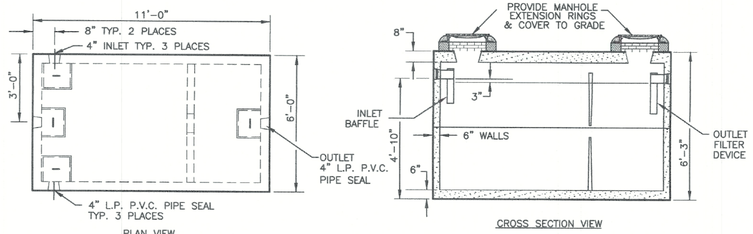
- APPLY AGRICULTURAL GROUND LIMESTONE AT THE RATE OF TWO TONS PER ACRE OR 100 LBS. PER 1000 S.F.
- APPLY 10-10-10 FERTILIZER OR EQUIVALENT AT A RATE OF 300 LBS. PER ACRE OR 7.5 LBS. PER 1000 S.F.
- WORK LIMESTONE AND FERTILIZER INTO THE SOIL TO A DEPTH OF 4 INCHES.
- INSPECT SEEDBED BEFORE SEEDING.
- IF TRAFFIC HAS COMPACTED THE SOIL, RETILL COMPACTED AREAS.
- APPLY THE FOLLOWING GRASS SEED MIX:

TYPICAL SEED MIXTURE

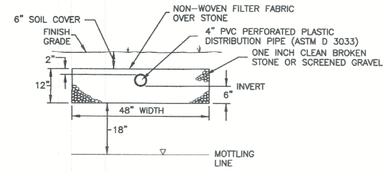
ALL DISTURBED AREAS	LBS./ACRE	LBS./1000 S.F.
KENTUCKY BLUEGRASS	20	0.45
CREEPING RED FESCUE	20	0.45
PERENNIAL RYEGRASS	5	0.10
	45	1.00



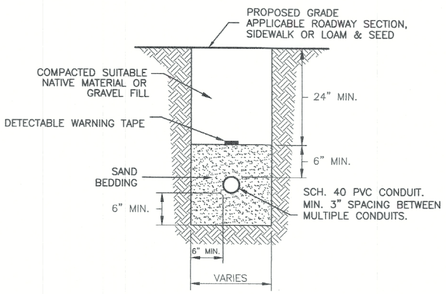
STANDARD D-BOX
NOT TO SCALE



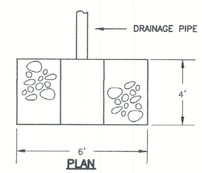
1,250 GALLON SEPTIC TANK
NOT TO SCALE



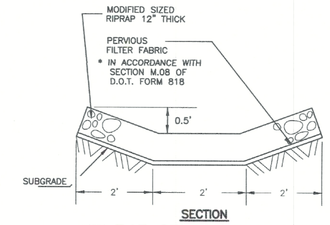
12" x 48" LEACHING TRENCH
NOT TO SCALE



TRENCH DETAIL: ELECTRICAL CONDUIT
NOT TO SCALE

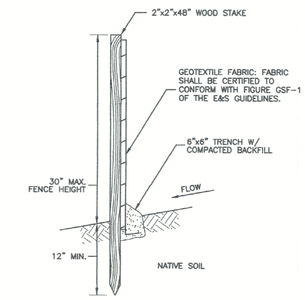


PLAN

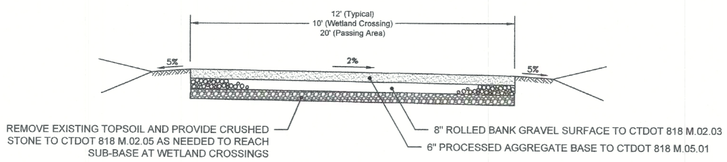


SECTION

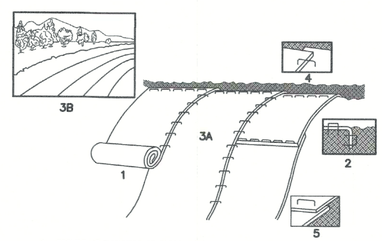
RIP-RAP SPLASH PAD DETAIL
NOT TO SCALE



SILT FENCE SECTION
NOT TO SCALE



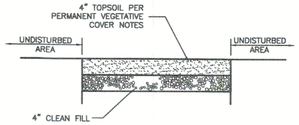
TYPICAL DRIVEWAY CROSS SECTION
NOT TO SCALE



1. PROVIDE 4" THICKNESS OF TOPSOIL OVER CLEAN FILL. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED MIX PER PERMANENT VEGETATIVE COVER NOTES. (SHALL BE PAID FOR AT THE UNIT PRICE FOR LOAM, SEED, FERTILIZE & MULCH)
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP x 6" WIDE TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKET (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.

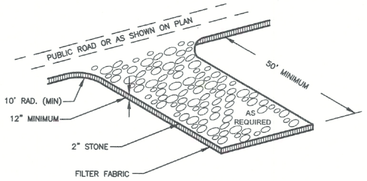
NOTE: ALL PERMANENT EROSION CONTROL BLANKETS ARE TO BE NORTH AMERICAN GREEN SKNET C125BN OR APPROVED EQUAL.

EROSION CONTROL MATTING DETAIL (FOR 3:1 SLOPES OR GREATER)

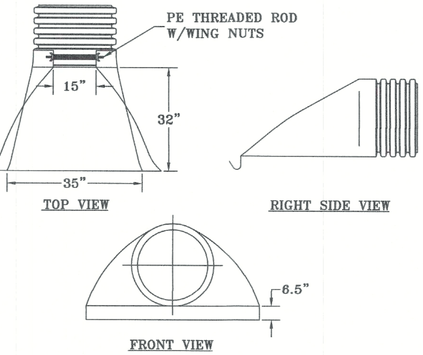


TYPICAL LOAM & SEED SECTION DETAIL (FOR ALL DISTURBED AREAS)

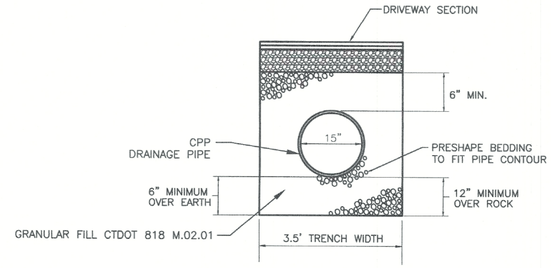
SLOPE STABILIZATION DETAILS
NOT TO SCALE



ANTI-TRACKING PAD DETAIL
NOT TO SCALE



HDPE FLARED END SECTION
NOT TO SCALE



DRAINAGE PIPE BEDDING DETAIL
NOT TO SCALE

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

No.	DATE	REVISION
1	05/10/21	VARIOUS MODIFICATIONS

CLA Engineers, Inc.
CIVIL · STRUCTURAL · SURVEYING
317 Main Street Norwich, CT 06360
(860) 886-1966 Fax (860) 886-9165

A. KAUSCH & SONS, LLC

LOTS 019-37-17, 019-37-20 & 019-37-21
CHURCH ST. SITE DEVELOPMENT
BROOKLYN, CT

NOTES & CONSTRUCTION DETAILS

Project No. CLA-6639
Proj. Engineer R.A.D.
Date: 04/30/21
Sheet No. 4 of 4

CLA

July 22, 2021

Re: Church Street / Pomfret Landing Road
Map 37 Lots 17, 17-1, 20, 21

To Whom It May Concern,

As an abutter of the above mentioned property, you are being notified that an application for a Wetlands Crossing has been submitted to the Inland Wetlands and Watercourses Commission on behalf of A.Kausch and Sons.

A Public Hearing has been scheduled for Tuesday August 10th at 6:00PM.

To view the full application and more information, please contact the Brooklyn Planning Department.

Sincerely,

Paul Archer, L.S.
Archer Surveying

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Brooklyn CT 06234

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To: Valerie Gamble
43 Pomfret Landing Rd
Brooklyn CT 06234

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28 Pomfret landing Rd
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To: Brooklyn Manor LLC
3011 46 Pole Bridge Rd
Woodstock CT 06281

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375 Church Street
Brooklyn CT 06234

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To: Tracy Elliot
49 Pomfret Landing Road
Brooklyn CT 06234

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420 Church Street
Brooklyn CT 06234

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130 Barrett Hill Rd
Brooklyn CT 06234

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To: The State of Connecticut
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Hartford CT 06106

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42 Pomfret Landing Rd
Brooklyn CT 06234

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To: Vincent Rosseth
30 Pomfret Landing Rd
Brooklyn CT 06234

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P.O. Box 22
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To: Eric & Cory Strandson
3 Whitebrook Drive
Brooklyn CT 06234

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P.O. Box 22
Brooklyn CT 06234

To: Drew & Carla Mizak
15 Whitebrook Drive
Brooklyn CT 06234

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To: James & Deborah Warren
9 Whitebrook Drive
Brooklyn CT 06234

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P.O. Box 22
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To: Michael Podzaline & Erin King
27 White Brook Drive
Brooklyn CT 06234

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To: Alan & Heidi Carpenter
23 White Brook Drive
Brooklyn CT 06234

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Abutters of A. Kausch & Sons (Map 37 / Lots 17, 17-1, 20 & 21)

Eric & Cory Strandson
3 White Brook Drive
Brooklyn CT 06234
37/22-1

James & Deborah Warren
9 White Brook Drive
Brooklyn CT 06234
37/22-2

Drew & Carla Mizak
15 White Brook Drive
Brooklyn CT 06234
37/22-3

Alan & Heidi Carpenter
23 White Brook Drive
Brooklyn CT 06234
37/22-4

Michael Podzaline &
Erin King
27 White Brook Drive
Brooklyn CT 06234
37/22-5

OJA Thure
333 Woods Hill Road
Pomfret CT
47/D/5.00

Henry & Sandra Yakey
353 Searles Road
Pomfret CT
47/D/6.00

Henry & Sandra Yakey
64 Pomfret Landing Road
Brooklyn CT 06234
37/12

The State of Connecticut
Pomfret Landing Road
Brooklyn CT 06234
37/14
450 Capitol Ave
Hartford, CT 06106

Douglas & Susan Clark
42 Pomfret Landing Road
Brooklyn CT 06234
37/18

Vincent Rossetti
36 Pomfret Landing Road
Brooklyn CT 06234
37/19

Jerry & Debra Sullivan
28 Pomfret Landing Road
Brooklyn CT 0624
36/44

Brooklyn Manor LLC
371 Church Street
Brooklyn CT 06234
36/54
Owner: 46 Pole Bridge Road
Woodstock, CT 06281

James & Meredith Crabtree
375 Church Street
Brooklyn CT 06234

Tracy Elliot
46 Pomfret Landing Road
Brooklyn, CT 06234

Carl & Patricia Maiorino
426 Church Street
Brooklyn, CT 06234

Sean & Tina Whiteley
412 Church Street
Brooklyn CT 06234

Joseph & Stephanie Pelletier
420 Church Street
Brooklyn CT 06234

Deborah Ethier
6 Meadowbrook Drive
Brooklyn, CT 06234

Valerie Gamble
43 Pomfret Landing Road
Brooklyn, CT 06234

LEGEND

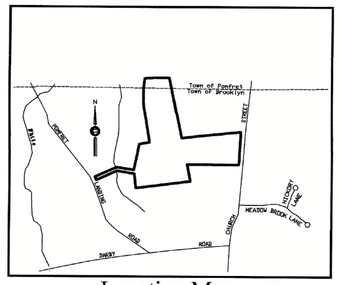
- PROPERTY LINE
- PROPOSED PROPERTY LINE
- EASEMENT
- STONEWALL
- STONEWALL REMAINS
- EXISTING INDEX CONTOURS
- EXISTING CONTOURS
- WETLANDS FLAG
- BUILDING SETBACK
- SILT FENCE
- IRON PIN
- DRILL HOLE
- MONUMENT
- PROPERTY POINT
- UTILITY POLE

Connecticut Grid

I have reviewed the inland-wetlands shown on this plan and they appear to be substantially the same as those which I delineated in the field.

Robert C Russo

Certified Soil Scientist



Location Map

SCALE

1000 0 1000

1" = 1000 FT

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, 1996

- This Survey conforms to a Class "A-2" Horizontal Accuracy
  Class "T-2" Vertical Accuracy
- Survey Type: Property Survey
- Boundary Determination: Resurvey
- Intent: Depict Existing Conditions with Respect to Property Lines

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

3. Parcels shown as 7.00 , Block D on Assessors Tax Map 47 of the Pomfret Assessors Office

4. Wetlands were flagged in the field by Robert Russo and field located by Archer Surveying LLC. Total Area of Wetlands flagged and located: 278,287 +/- Sq.Ft, 6.39 +/- Acres.

5. Property is Located in the RA Zone:
   Area: 87,120 Sq.Ft. // 2.0 Acres
   Frontage: 150'
   Front/Rear Setback: 50'
   Side Setback: 40'

6. There is no proposed regulated activities within 500' of the boundary of an adjoining municipality.

7. 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.

Map References

1. Town of Brooklyn, Plan showing land acquired from Annie Weldon by The State of Connecticut, Brooklyn - Pomfret Landing Rd, Scale: 1"=40', Date: September 1935

2. Plan of Brooklyn Manor, Darby Road and New Kimball Road, Brooklyn, Connecticut, Scale: 1"=40', Date: April 1980, Prepared by Kieltyka, Woodis & Pike

3. Subdivision Map "White Brook Estates" Prepared for Eric Lehto, Church Street, Brooklyn, Connecticut, Date: June 2004, Scale: 1"=50', Prepared by Provost and Rovero Inc.

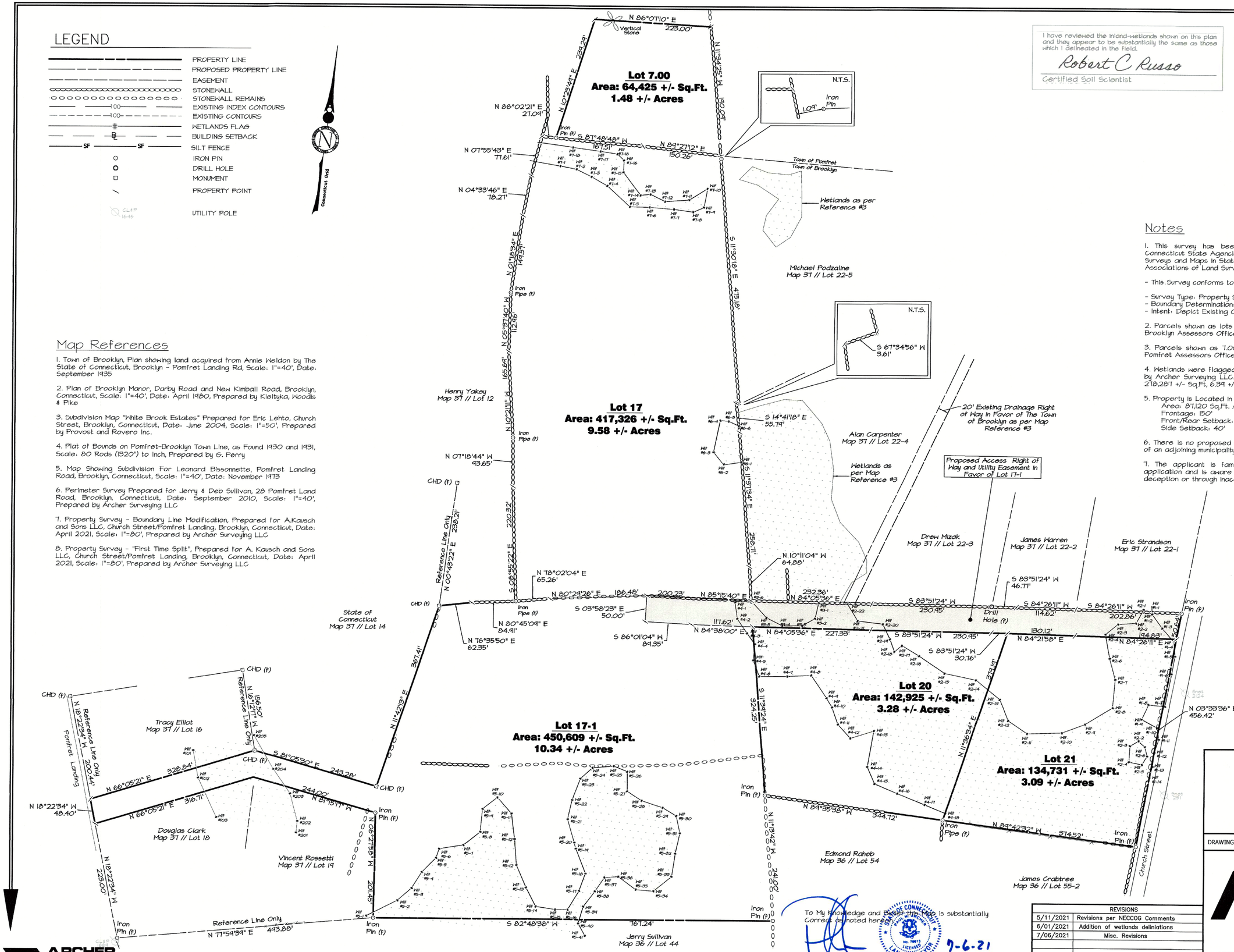
4. Plat of Bounds on Pomfret-Brooklyn Town Line, as Found 1930 and 1931, Scale: 80 Rods (1320") to Inch, Prepared by G. Perry

5. Map Showing Subdivision For Leonard Bissonnette, Pomfret Landing Road, Brooklyn, Connecticut, Scale: 1"=40', Date: November 1973

6. Perimeter Survey Prepared for Jerry & Deb Sullivan, 28 Pomfret Land Road, Brooklyn, Connecticut, Date: September 2010, Scale: 1"=40', Prepared by Archer Surveying LLC

7. Property Survey - Boundary Line Modification, Prepared for A.Kausch and Sons LLC, Church Street/Pomfret Landing, Brooklyn, Connecticut, Date: April 2021, Scale: 1"=80', Prepared by Archer Surveying LLC

8. Property Survey - "First Time Split", Prepared for A. Kausch and Sons LLC, Church Street/Pomfret Landing, Brooklyn, Connecticut, Date: April 2021, Scale: 1"=80', Prepared by Archer Surveying LLC



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

Paul M. Archer LLS #70013 — Date 7-6-21

STATE OF CONNECTICUT · PAUL M. ARCHER · No. 70013 · LICENSED · LAND SURVEYOR

REVISIONS	
5/11/2021	Revisions per NECCOG Comments
6/01/2021	Addition of wetlands deliniations
7/06/2021	Misc. Revisions

Property Survey

Prepared For:

A. Kausch & Sons LLC

Church Street & Pomfret Landing

Brooklyn, Connecticut

DRAWING SCALE: 1"=80' (0 — 80 — 160)

ARCHER Surveying LLC

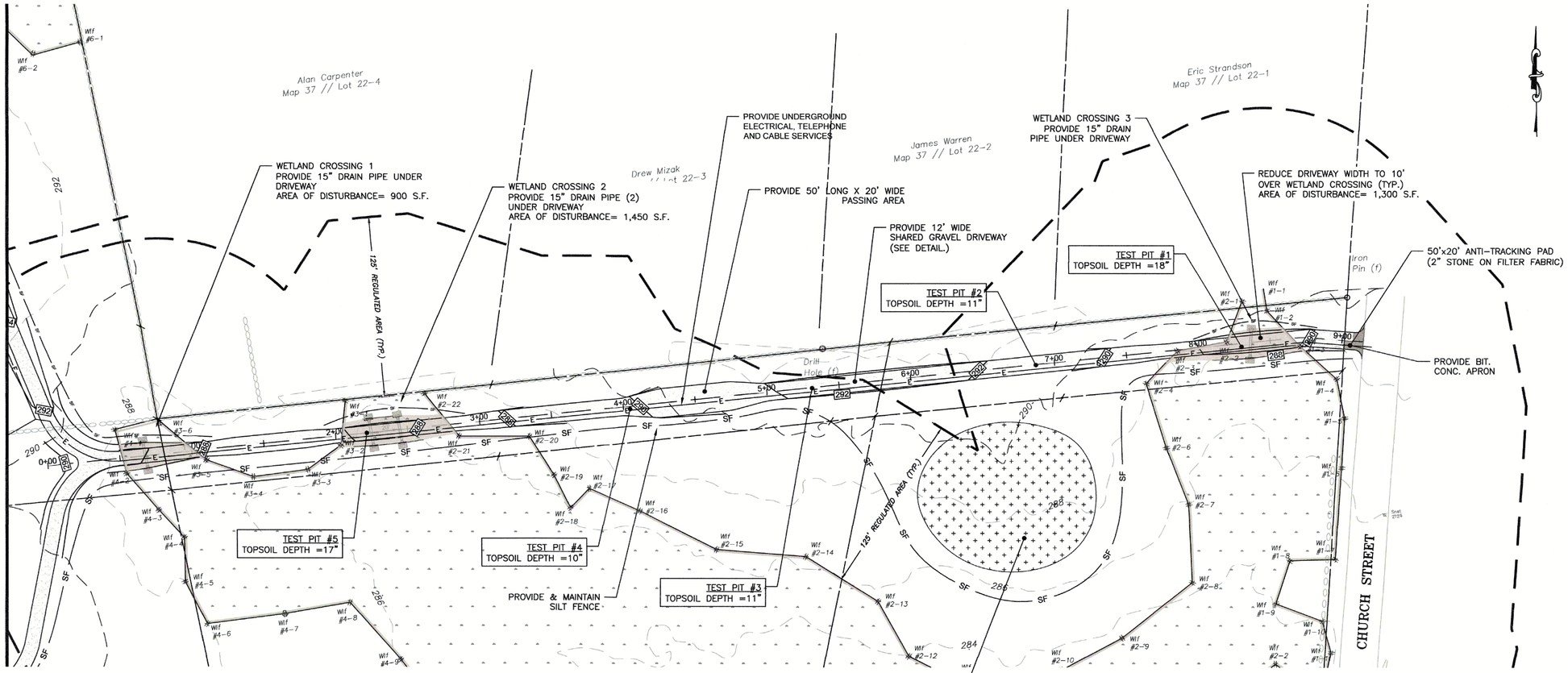
18 Providence Road, Brooklyn, CT

(860) 779-2240

Sheet No.	1 OF 4	Project No.	1895	Date:	April 10, 2021

ARCHER Surveying LLC

CONTINUE - SEE SHEET 3



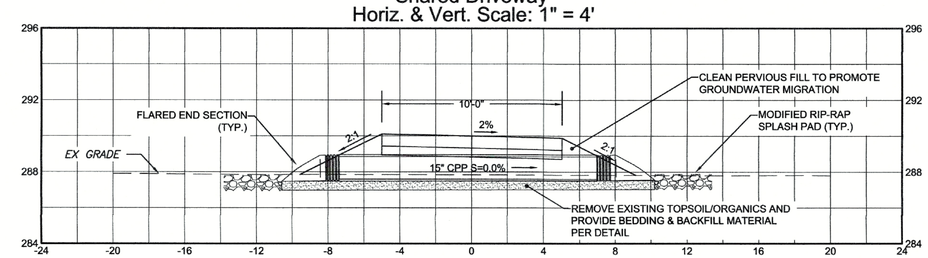
PLAN

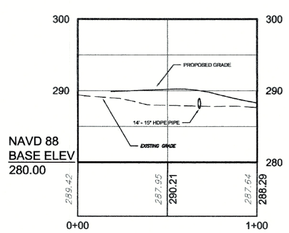
40' 0 40' 80'

SCALE: 1"=40'

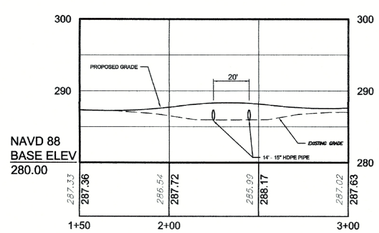
NOTE:
TEST HOLES IN PROPOSED DRIVEWAY WERE OBSERVED ON 5-18-21 AT THE APPROXIMATE LOCATIONS SHOWN ABOVE. INDICATIONS OF SEASONAL HIGH GROUNDWATER DEPTH WAS OBSERVED BETWEEN 0-16" IN WETLAND AREAS, AND 16" AND GREATER IN UPLAND AREAS.

Wetland Crossing (Typical)
Shared Driveway
Horiz. & Vert. Scale: 1" = 4'

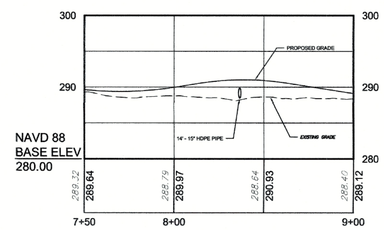




SHARED DRIVEWAY Wetland Crossing 1
STA 0+00 TO STA 1+00
Horiz. Scale= 1"= 40'
Vert. Scale= 1"= 10'



SHARED DRIVEWAY Wetland Crossing 2
STA 1+50 TO STA 3+00
Horiz. Scale= 1"= 40'
Vert. Scale= 1"= 10'



SHARED DRIVEWAY Wetland Crossing 3
STA 7+50 TO STA 9+00
Horiz. Scale= 1"= 40'
Vert. Scale= 1"= 10'

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

No.	DATE	REVISION
3	07/06/21	MISCELLANEOUS REVISIONS
2	06/30/21	VARIOUS MODIFICATIONS
1	05/10/21	VARIOUS MODIFICATIONS

CLA Engineers, Inc.
CIVIL · STRUCTURAL · SURVEYING
317 Main Street Norwich, CT 06360
(860) 886-1966 Fax (860) 886-9165

STATE OF CONNECTICUT
ROBERT A. DUBOIS
LICENSED
PROFESSIONAL ENGINEER

A. KAUSCH & SONS, LLC

LOTS 019-37-17, 019-37-20 & 019-37-21
CHURCH ST. SITE DEVELOPMENT
BROOKLYN, CT

GRADING & SITE DESIGN

Project No. CLA-6639
Proj. Engineer R.A.D.
Date: 04/30/21
Sheet No. 2 of 4

CLA

SELECT FILL SPECIFICATION

SELECT FILL PLACED WITHIN AND ADJACENT TO LEACHING SYSTEM AREAS SHALL BE COMPRISED OF CLEAN SAND, OR SAND AND GRAVEL, FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES. THE SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS PER THE CONNECTICUT PUBLIC HEALTH CODE FOR USE WITHIN THE LEACHING AREA:

1. THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THE THREE (3) INCH SLEEVE.
2. UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SLEEVE (THIS IS THE GRAVEL PORTION OF THE SAMPLE).
3. THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE SIEVE ANALYSIS STARTED,
4. THE REMAINING SAMPLE SHALL MEET THE FOLLOWING CRITERIA:

SIEVE SIZE	PERCENT PASSING WET SIEVE	DRY SIEVE
#4	100	100
#10	70–100	70–100
#40	10–50*	10–75
#100	0–20	0–5
#200	0–5	0–2.5

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

SEPTIC NOTES

1. PROPOSED SEPTIC SYSTEM TO BE STAKED IN THE FIELD BY A LAND SURVEYOR LICENSED IN THE STATE OF CONNECTICUT.
2. A BENCHMARK SHALL BE SET WITHIN 10'–15' OF THE PROPOSED SEPTIC SYSTEM PRIOR TO CONSTRUCTION.
3. ALL WORK AND MATERIAL (SEPTIC TANK, DISTRIBUTION BOX, PIPE) SHALL CONFORM TO THE CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEM.
4. SEWER LINE FROM FOUNDATION WALL TO SEPTIC TANK SHALL BE 4" SCHEDULE 40 PVC – ASTM D 1785 AND JOINTS PER HEALTH DEPT. CODE. PIPE FROM SEPTIC TANK TO DISTRIBUTION LINES SHALL BE 4" SOLID PVC CONFORMING TO STMD–3034 AND SDR–35.
5. SYSTEMS SHALL BE SET LEVEL FOR ENTIRE LENGTH AND HAVE A CENTER TO CENTER SPACING AS CALLED FOR IN THE CONNECTICUT PUBLIC HEALTH CODE. THERE ARE PRESENTLY NO KNOWN WATER WELLS WITHIN 75' OF THE PROPOSED SEPTIC SYSTEMS.
6. CLEAR AND GRUB THE AREA WHERE THE SEPTIC SYSTEMS AND HOUSES ARE TO BE CONSTRUCTED. ALL TOPSOIL IS TO BE STRIPPED AND STOCKPILED FOR FUTURE USE.
7. ALL FILL MATERIAL SHALL BE CLEAN EARTH FREE OF STUMPS, ORGANICS, CONSTRUCTION DEBRIS AND TOPSOIL.
8. TOPSOIL SHALL BE RE–APPLIED OVER ALL FILL AREAS AND ALL DISTURBED AREAS TO PROVIDE A MINIMUM DEPTH OF FOUR INCHES IN ACCORDANCE WITH THE SLOPE STABILIZATION DETAILS..

DEEP TEST PIT DATA / SOIL DESCRIPTIONS

PERFORMED BY:Donovan Moe

WITNESSED BY:NORTHEAST DISTRICT DEPARTMENT OF HEALTH DATE: 03/30/2021

TEST PIT: 1		TEST PIT: 2	
0" - 10"	Topsoil / Organics	0" - 10"	Topsoil / Organics
10" - 16"	Orange Brown Fine Sand Loam	10" - 27"	Dark Brown Fine Sand
16" - 34"	Tan Compact Sand Loam	27" - 48"	Grey Compact Sand
34" - 78"	Grey Sand & Gravel	48" - 70"	Sand & Gravel
MOTTLES:	36"	MOTTLES:	32"
GROUNDWATER:	66"	GROUNDWATER:	62"
LEDGE:	NO	LEDGE:	NO
ROOTS:	46"	ROOTS:	32"
RESTRICTIVE:	NO	RESTRICTIVE:	NO

TEST PIT: 3		TEST PIT: 4	
0" - 12"	Topsoil / Organics	0" - 10"	Topsoil / Organics
12" - 30"	Tan Orange Fine Sand Loam	10" - 24"	Tan Orange Fine Sand Loam
30" - 48"	Grey Sand Layer	24" - 80"	Saturated Grey Sand & Gravel
48" - 72"	Sand & Gravel		
MOTTLES:	30"	MOTTLES:	28"
GROUNDWATER:	65"	GROUNDWATER:	74"
LEDGE:	NO	LEDGE:	NO
ROOTS:	NO	ROOTS:	30"
RESTRICTIVE:	NO	RESTRICTIVE:	NO

PERCOLATION DATA

PERC 1 - DEPTH 23"

TIME	DROP (INCHES)
11:10	6.0
11:12	7.0
11:14	8.0
11:16	8.5
11:18	9.25
11:20	9.5
11:22	10.0
11:25	11.0
11:28	11.5
11:31	12.0

PERCOLATION RATE > 6.0 MIN./IN.

NOTES:
PERCOLATION TEST PERFORMED ON 3/30/2021
PERFORMED BY Donovan Moe

PERCOLATION DATA

PERC 2 - DEPTH 17"

TIME	DROP (INCHES)
11:04	6.25
11:10	8.25
11:16	9.75
11:22	10.625
11:34	12.125
11:46	13.125
11:58	14.625

PERCOLATION RATE > 8.0 MIN./IN.

NOTES:
PERCOLATION TEST PERFORMED ON 3/30/2021
PERFORMED BY Donovan Moe

CONCEPT SEPTIC SYSTEM DESIGN

PROPOSED LOT 1
PRIMARY LEACHING AREA
4 BEDROOM RESIDENCE
PERCOLATION RATE: 6.0 MIN./INCH (NDDH FILE #21000307)
LEACHING AREA REQUIRED: 557.5 SF

USE TRADITIONAL TRENCH
EFFECTIVE LEACHING AREA OF LEACHING TRENCH 3.0 SF/LF
REQUIRED LENGTH = 557.5 SF / 3 SF/LF = 186 LF

MLSS CALCULATION
HYDRAULIC FACTORS
DEPTH TO RESTRICTIVE LAYER = 32"
SLOPE = 5.0%
HYDRAULIC FACTOR (HF) = 32
FLOW FACTOR (FF) = 1.0
PERCOLATION FACTOR (PF) = 1.75 (LESS THAN 10.0 MIN./INCH)
MLSS REQUIRED: 32 x 1.0 x 1.75 = 52.5 LF

PROPOSED SYSTEM
USE 3 ROWS OF 65 LF
LEACHING AREA PROVIDED = 585 SF

RESERVE LEACHING AREA
USE SAME AS PRIMARY SYSTEM

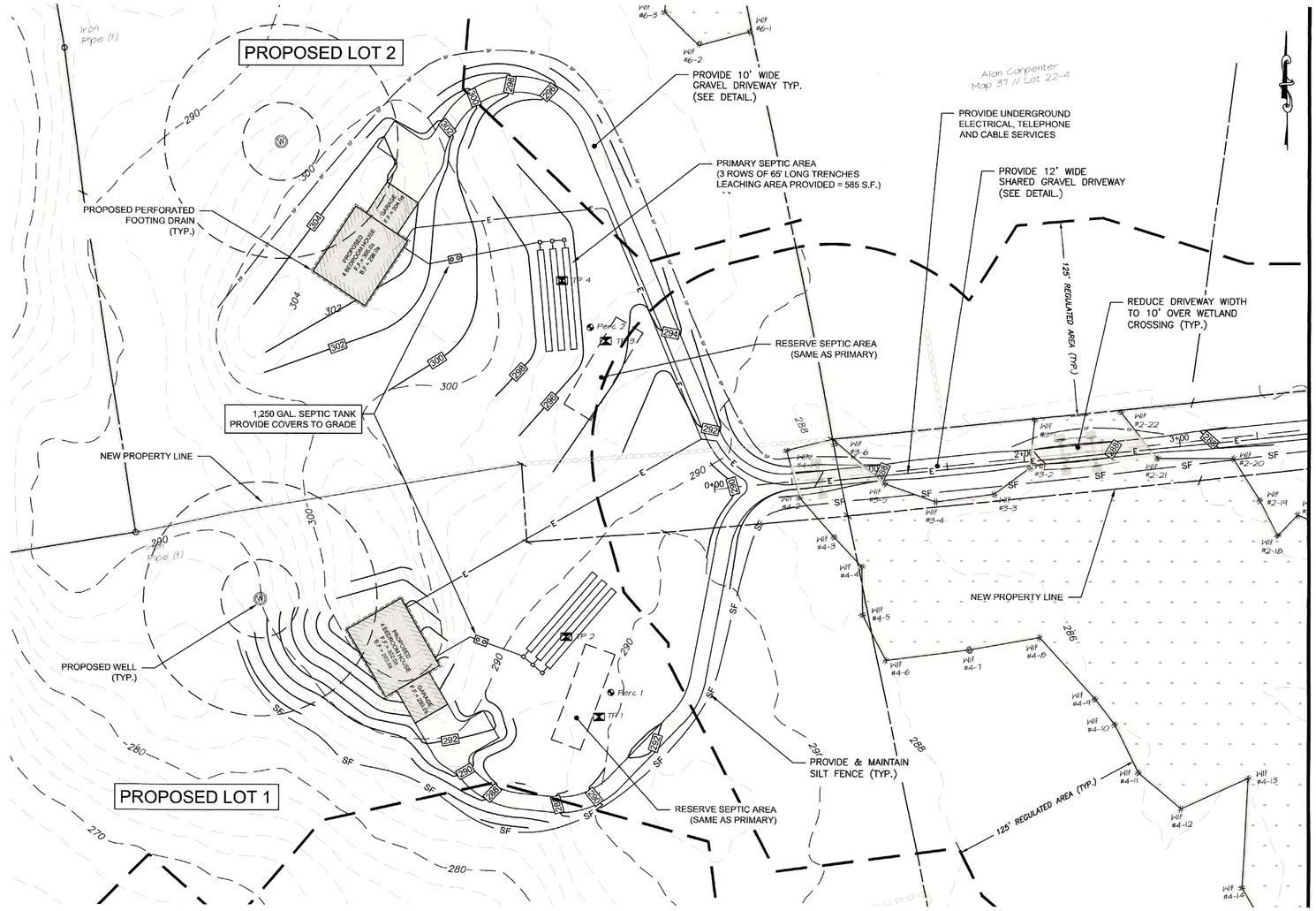
PROPOSED LOT 2
PRIMARY LEACHING AREA
4 BEDROOM RESIDENCE
PERCOLATION RATE: 8.0 MIN./INCH (NDDH FILE #21000307)
LEACHING AREA REQUIRED: 557.5 SF

USE TRADITIONAL TRENCH
EFFECTIVE LEACHING AREA OF LEACHING TRENCH 3.0 SF/LF
REQUIRED LENGTH = 557.5 SF / 3 SF/LF = 186 LF

MLSS CALCULATION
HYDRAULIC FACTORS
DEPTH TO RESTRICTIVE LAYER = 28"
SLOPE = 4.0%
HYDRAULIC FACTOR (HF) = 34
FLOW FACTOR (FF) = 1.0
PERCOLATION FACTOR (PF) = 1.75 (LESS THAN 10.0 MIN./INCH)
MLSS REQUIRED: 34 x 1.0 x 1.75 = 59.5 LF

PROPOSED SYSTEM
USE 3 ROWS OF 65 LF
LEACHING AREA PROVIDED = 585 SF

RESERVE LEACHING AREA
USE SAME AS PRIMARY SYSTEM



PLAN

40' 0 40' 80'
SCALE: 1"=40'

CONTINUE - SEE SHEET 2

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

No.	DATE	REVISION
2	06/30/21	VARIOUS MODIFICATIONS
1	05/10/21	VARIOUS MODIFICATIONS

STATE OF CONNECTICUT ROBERT A. DEL GIUDICE 18730 LICENSED PROFESSIONAL ENGINEER

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Project No. CLA-6639
Proj. Engineer R.A.D.
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Sheet No. 3 of 4

CLA

EROSION & SEDIMENTATION CONTROL NARRATIVE

1. THE EROSION & SEDIMENTATION CONTROL PLAN AND DETAILS HAVE BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEP.
2. THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL MEASURES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDED SILT FENCE, STONE CHECK DAMS AND/OR OTHER EROSION CONTROL MEASURES AS NEEDED OR DIRECTED BY THE ENGINEER OR TOWN STAFF TO ADEQUATELY PREVENT SEDIMENT TRANSPORT.
3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE.
4. THE CONTRACTOR SHALL INSPECT, REPAIR AND/OR REPLACE EROSION CONTROL MEASURES EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT. SEDIMENT DEPOSITS MUST BE REMOVED WHEN WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.
5. STAKED HAY BALE SILT BARRIERS OR SILT FENCE SHALL BE INSTALLED AROUND ANY TEMPORARY STOCKPILE AREAS. TEMPORARY VEGETATIVE COVER MAY BE REQUIRED (SEE NOTE).
6. INLET SEDIMENTATION CONTROL DEVICES SHALL BE INSTALLED UNDER THE GRATES OF ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION, AND UNDER THE GRATES OF EXISTING CATCH BASINS IN THE CONSTRUCTION AREA.
7. CONTINUOUS DUST CONTROL USING WATER, CALCIUM CHLORIDE OR APPROVED EQUAL SHALL BE PROVIDED FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS, SURFACES OF BACKFILLED TRENCHES AND GRAVELED ROADWAY SURFACES.
8. IF DEWATERING IS NECESSARY DURING ANY TIME OF CONSTRUCTION A CLEAR WATER DISCHARGE SHALL BE PROVIDED AS SHOWN IN THE HAY-BALE BARRIER DEWATERING DETAIL OR ALTERNATE METHOD PROPOSED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
9. ALL DISTURBED AREAS SHALL BE RESTORED PER THE SLOPE STABILIZATION AND PERMANENT VEGETATION DETAILS. ALL DISTURBED AREAS THAT ARE SLOPED LESS THAN THREE HORIZONTAL TO ONE VERTICAL (3:1) SLOPE SHALL BE LOAMED, SEEDED, FERTILIZED AND MULCHED PER THE PERMANENT VEGETATIVE COVER SPECIFICATIONS. EROSION CONTROL MATTING SHALL BE PROVIDED ON ALL DISTURBED AREAS THAT ARE SLOPED MORE THAN THREE HORIZONTAL TO ONE VERTICAL (3:1).
10. IF FINAL SEEDING OF DISTURBED AREAS IS NOT TO BE COMPLETED BEFORE OCTOBER 15, THE CONTRACTOR SHALL PROVIDE TEMPORARY MULCHING (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY PERMANENT SEEDING.
11. WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISHED GRADED SHALL BE COMPLETED PRIOR TO OCTOBER 15.
12. ANY EROSION WHICH OCCURS WITHIN THE DISTURBED AREAS SHALL BE IMMEDIATELY REPAIRED AND STABILIZED. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT SHALL BE RETURNED TO THE SITE. POST SEEDING, INTERCEPTED SEDIMENT, IF ANY, SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE TOWN AND ENGINEER.
13. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL VEGETATION IS RE-ESTABLISHED OR SLOPES ARE STABILIZED AND REMOVAL IS APPROVED BY THE TOWN.
14. UNFORESEEN PROBLEMS WHICH ARE ENCOUNTERED IN THE FIELD SHALL BE SOLVED ACCORDING TO THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEP.
15. THE CONTRACTOR SHALL PROVIDE THE NAME AND EMERGENCY CONTACT INFORMATION FOR THE PROJECT PERSONNEL RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROLS PRIOR TO THE START OF CONSTRUCTION.

NOTE: THE CONTRACTOR SHALL CONTINUALLY STORE THE FOLLOWING MATERIALS ONSITE DURING CONSTRUCTION TO MEET UNEXPECTED EROSION NEEDS

* 100 LF OF SILT FENCE
* 10 HAY BALES
* 10 CY OF WOOD CHIPS OR CRUSHED STONE

TEMPORARY VEGETATIVE COVER

A TEMPORARY SEEDING OF RYE GRASS WILL BE COMPLETED WITHIN 15 DAYS OF THE FORMATION OF STOCKPILES. IF THE SOIL IN THE STOCKPILES HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS IT SHALL BE LOOSENED TO A DEPTH OF 2 INCHES BEFORE THE FERTILIZER, LIME AND SEED IS APPLIED. 10-10-10 FERTILIZER AT A RATE OF 7.5 POUNDS PER 1000 S.F. LIMESTONE AT A RATE OF 90 LBS. PER 1000 S.F. SHALL BE USED. RYE GRASS APPLIED AT A RATE OF 1 LB. PER 1000 S.F. SHALL PROVIDE THE TEMPORARY VEGETATIVE COVER. STRAW FREE FROM WEEDS AND COARSE MATTER SHALL BE USED AT A RATE OF 70-90 LBS. PER 1000 S.F. AS A TEMPORARY MULCH. APPLY MULCH AND DRIVE TRACKED EQUIPMENT UP AND DOWN SLOPE OVER ENTIRE SURFACE SO CLEAT MARKS ARE PARALLEL TO THE CONTOURS.

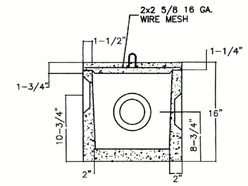
PERMANENT VEGETATIVE COVER

TOPSOIL WILL BE REPLACED ONCE THE EXCAVATIONS HAVE BEEN COMPLETED AND THE SLOPES ARE GRADED AS SHOWN ON THE PLANS. PROVIDE SLOPE PROTECTION AS CALLED FOR ON THE PLANS AND DETAILS. TOPSOIL SHALL BE SPREAD AT A MINIMUM COMPACTED DEPTH OF 4 INCHES. ONCE THE TOPSOIL HAS BEEN SPREAD, ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION WILL BE REMOVED AS WELL AS DEBRIS.

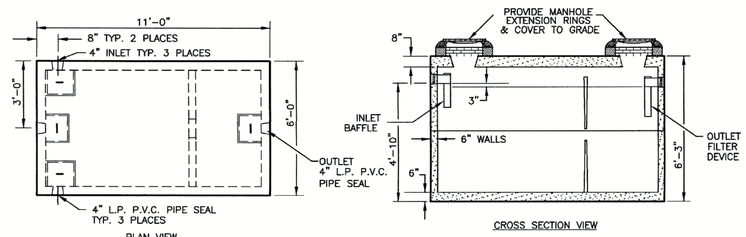
- APPLY AGRICULTURAL GROUND LIMESTONE AT THE RATE OF TWO TONS PER ACRE OR 100 LBS. PER 1000 S.F.
- APPLY 10-10-10 FERTILIZER OR EQUIVALENT AT A RATE OF 300 LBS. PER ACRE OR 7.5 LBS. PER 1000 S.F.
- WORK LIMESTONE AND FERTILIZER INTO THE SOIL TO A DEPTH OF 4 INCHES.
- INSPECT SEEDBED BEFORE SEEDING.
- IF TRAFFIC HAS COMPACTED THE SOIL, RETILL COMPACTED AREAS.
- APPLY THE FOLLOWING GRASS SEED MIX:

TYPICAL SEED MIXTURE

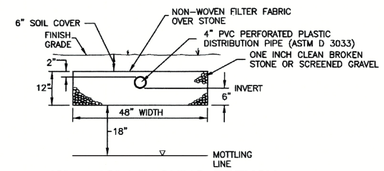
ALL DISTURBED AREAS	LBS./ACRE	LBS./1000 S.F.
KENTUCKY BLUEGRASS	20	0.45
CREEPING RED FESCUE	20	0.45
PERENNIAL RYEGRASS	5	0.10
	45	1.00



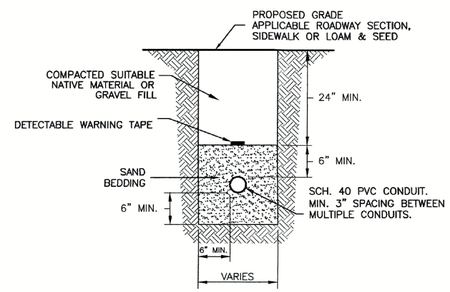
STANDARD D-BOX
NOT TO SCALE



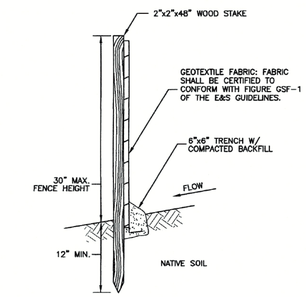
1,250 GALLON SEPTIC TANK
NOT TO SCALE



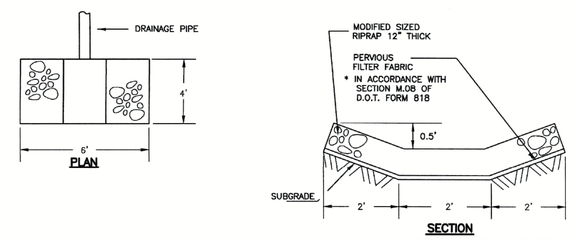
12" x 48" LEACHING TRENCH
NOT TO SCALE



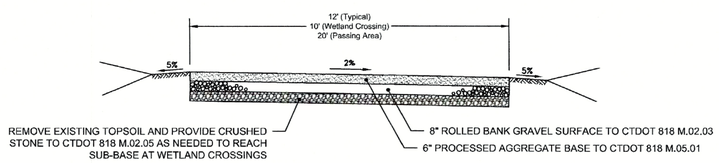
TRENCH DETAIL: ELECTRICAL CONDUIT
NOT TO SCALE



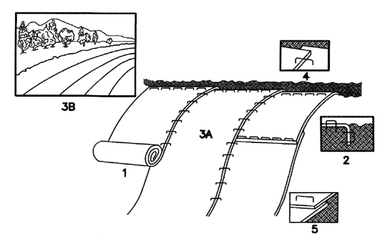
SILT FENCE SECTION
NOT TO SCALE



RIP-RAP SPLASH PAD DETAIL
NOT TO SCALE



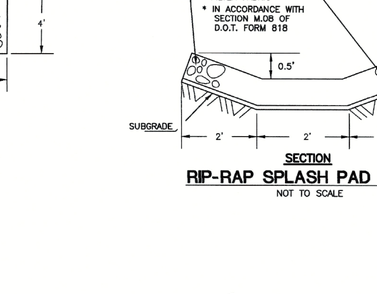
TYPICAL DRIVEWAY CROSS SECTION
NOT TO SCALE



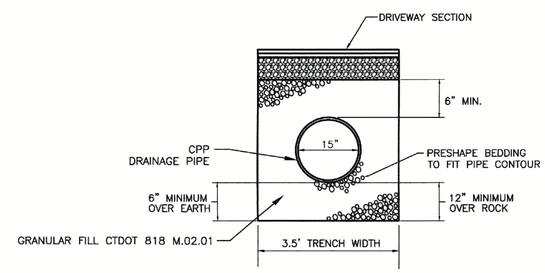
1. PROVIDE 4" THICKNESS OF TOPSOIL OVER CLEAN FILL. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED MIX PER PERMANENT VEGETATIVE COVER NOTES. (SHALL BE PAID FOR AT THE UNIT PRICE FOR LOAM, SEED, FERTILIZE & MULCH)
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP x 6" WIDE TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKET (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.

NOTE: ALL PERMANENT EROSION CONTROL BLANKETS ARE TO BE NORTH AMERICAN GREEN BIONET C125BN OR APPROVED EQUAL.

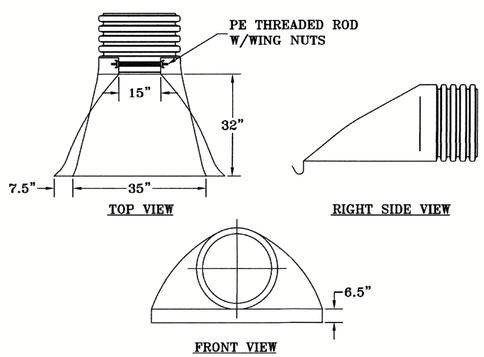
EROSION CONTROL MATTING DETAIL
(FOR 3:1 SLOPES OR GREATER)



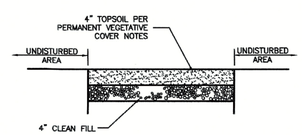
ANTI-TRACKING PAD DETAIL
NOT TO SCALE



DRAINAGE PIPE BEDDING DETAIL
NOT TO SCALE



HDPE FLARED END SECTION
NOT TO SCALE



TYPICAL LOAM & SEED SECTION DETAIL
(FOR ALL DISTURBED AREAS)

SLOPE STABILIZATION DETAILS
NOT TO SCALE

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

No.	DATE	REVISION
1	05/10/21	VARIOUS MODIFICATIONS

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LOTS 019-37-17, 019-37-20 & 019-37-21
CHURCH ST. SITE DEVELOPMENT
BROOKLYN, CT

NOTES & CONSTRUCTION DETAILS

Project No. CLA-6639
Proj. Engineer R.A.D.
Date: 04/30/21
Sheet No. 4 of 4

CLA

NORTHEASTERN CONNECTICUT COUNCIL OF GOVERNMENTS

ENGINEERING PLAN REVIEW
PERTAINING TO A
3-LOT SUBDIVISION
(ASSESSOR'S MAP/LOT NOS. 019-37-17, 019-37-20 & 019-37-21)
CHURCH STREET
BROOKLYN, CT

(May 7, 2021)

The comments contained herein pertain to my review of plans for a proposed 3-lot residential subdivision located on Church Street in Brooklyn, Connecticut, consisting of four (4) sheets, prepared for A. Kausch & Sons by Archer Surveying, LLC and CLA Engineers, dated April 10, 2021 and April 30, 2021, respectively. Also reviewed were the CLA Drainage Report of April 2021 and the CLA Wetlands Report, dated May 3, 2021. Comments pertain to both wetlands and planning and zoning concerns.

(Comments in black ink are the Regional Engineer's May 7, 2021 review comments.)
(Comments in red ink are the Regional Engineer's June 24, 2021 review comments for the revised plans with revision date of May 10, 2021.)

Sheet 1 of 4 – Property Survey Plan

1. Location Map is missing a north arrow.

   Comment has been incorporated into the plan.

2. Note 1 under "Notes" does not include the accuracy of the topographic elevations shown on the plan. The accuracy needs to be included as part of this note.

   Comment has been incorporated into the plan.

3. Zoning criteria is missing on this plan.

   Comment has been incorporated into the plan.

4. A "property line symbol" covers some stone wall symbols but not others in the lots of interest. Why is this so?

   Comment has been incorporated into the plan.

5. Wetland delineation certification block and signature of the certified Connecticut soil scientist is missing on the plan.

   Comment has been incorporated into the plan.

6. A silt fence, compost/silt sock and/or hay bale sediment control symbol needs to be included in the "Legend."

   A symbol has been added to the plan, however it does not match the symbol used on Sheets 3 & 4 and needs to be corrected.

Sheets 2 & 3 of 4 – Grading & Site Design Plan

1. The area of disturbed wetlands is not noted on the plan (driveway crossing and underground utilities installation). The areas of disturbance need to be noted on the plan.

   Comment has been incorporated in the plan.

2. Underground utilities will disturb wetlands. The route of the utilities should be shown on the plan.

   Underground utilities are not shown on the plan and must be added.

3. Different symbols are used for "Silt Fence." Use one symbol only and make changes to the plan to reflect this.

   This discrepancy requires changing the symbol in the Legend on Sheet 1 of 4.

4. The drainage report for this project was also reviewed. It states that Wetlands Crossing 2 needs three (3) 15" pipes. The site plan and wetland crossing profile only show two (2) pipes. Therefore, an additional pipe needs to be added to the plan and profile along with distances to be maintained between the pipes.

   Revised drainage calculations demonstrate the adequacy of two pipes and three pipes are not necessary.

5. Due to the proposed driveway being finished so close to the level of the wetlands, soil test pits should be dug to look for presence of groundwater and mottling, especially within the wetland crossings, to further validate the driveway cross section design depicted on Sheet 4 of 4.

   Comment has been incorporated into the plan.

6. Different symbols are used for "Silt Fence." Use one symbol only and make changes to the plan to reflect this.

   Duplicate comment (see #3 above)

7. Different symbols are used for "New Property Line." Use one symbol only and make changes to the plan to reflect this.

   Comment has not been addressed.

Sheet 4 of 4 – Notes & Construction Details

1. Any reference to CT DOT Form 817 is to be changed to the current Form 818 designation.

   Comment has been incorporated into the plan.

General Comments

2. Even though USDA NRCS soils types with boundaries are included in the wetlands report, they should also be included on the project plans.

   This comment has not been addressed.

3. An overall plan showing the "new" lot lines should be included in the plan set. As it is presented now, it is difficult to see how the proposed subdivision relates to the existing lot configurations.

   This comment has not been addressed.

Syl Pauley, Jr., P.E.

By: _____

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

Margaret Washburn

From: B Deluca <bdeluca@claengineers.com>
Sent: Tuesday, July 06, 2021 9:42 AM
To: Margaret Washburn
Cc: PAUL ARCHER
Subject: FW:

Margaret,

As requested – see below

Robert A. DeLuca, P.E.
CLA Engineers, Inc.
317 Main Street
Norwich, CT 06360
P: (860) 886-1966
F: (860) 886-9165
bdeluca@claengineers.com
www.claengineers.com

Consulting Civil Engineers Since 1984

From: B Russo
Sent: Thursday, June 3, 2021 3:23 PM
To: B Deluca <bdeluca@claengineers.com>
Subject:

Bob,

This is to certify that I delineated wetlands on the western side of the Andrew Causch and Sons site located at Pomfret Landing Rd and Church St. In Brooklyn CT. The flag numbers are WF 101 through 103 and WF 201 through 205 and are shown on the plan prepared by Archer Surveying.

Robert C Russo

C.S.S.

CLA Engineers, Inc.
Civil • Structural • Survey

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

RECEIVED
MAY 0 3 2021

May 3, 2021

Inland Wetlands Commission
Town of Brooklyn
69 South Main Street
Suite 22
Brooklyn, CT 06234

RE: CLA 6639
Subdivision
Church Street Brooklyn CT

To the Commission:

CLA Engineers was retained by A. Kausch & Sons LLC to conduct a wetlands investigation and functional assessment on the parcel of land, located on Church Street in Brooklyn CT that is proposed to be developed for a residences. The approximate site location is shown on the cover sheet of the site plans. The purposes of the investigation were to: establish the wetland delineation, provide background data in the form of determining wetland functions, and assess the potential for wetland impacts due to the proposed development.

Wetlands were delineated by Robert Russo of CLA Engineers according to the State of Connecticut statutory definition as described in Section 22a of the State Statutes. CLA conducted field work in October of 2020 amd March of 2021.

After wetland delineation was complete, the wetland resources of the site were surveyed by conducting a deliberate walk through of the site, traversing each wetland in order to collect data characteristic of that wetland. During the walk through, vegetation identifiable was noted, and described.

Site Setting

Much of the site had been used for agriculture up until the 20th century as demonstrated by abundant stonewalls. The presence of numerous Japanese barberry (*Berberis thumbergii*) Indicates that the site was likely used for cattle grazing in the past as this plant is ignored by cattles and soon takes over. The site currently has two vegetative cover types that were established after farming ceased. Both cover types, wooded upland and wooded swamp, are dominated by mixed hardwoods.

The areas of upland have mixed hardwoods such as red maple, red oak, white oak, black cherry and black birch. The wetlands are dominated by red maple trees with other species such as yellow birch and pin oak in lesser numbers.

The land uses surrounding the site include residential, agricultural and woodland. The residential development is primarily located to the north and south along Church St and to the west along Pomfret Landing Rd. Undeveloped farmland and woodland also occurs surrounds the site to the north, west and south.

Throughout the site slopes vary from moderate to nearly flat. The surface water drains both south westward and south eastward off of the site.. The slopes on the east and west side of the site are gentle at the edge of the wetland and are not prone to erosion.

Surficial Geology and Soils

Southern New England was overlain by glacial ice as recently as 12,000-15,000 years ago. The materials that the glaciers deposited over top the local bedrock determine the surficial geology of the region and of the site. Connecticut's glacial deposits are generally divided into three categories: glacial till (un-stratified sand, silt and rock), glaciofluvial (water sorted, stratified sand and gravel), and glaciolacustrine (stratified sand, silt and clay that settled out in lakebeds). Only glacial till is present on the site of the proposed residences. soils formed in till deposits typically have sandy loam to silt loam textures and in this case they are the coarser, sandy loams. The slopes are moderate to flat throughout the site and this leads to differences in soil mapping classification as listed by the NRCS.

Table 1 is a summary table of the soils found on the site.

Table 1 - Soil Types and Properties at the Church Street Site

Soil Series	Parent Material	Drainage Class	Texture/Characteristics
*2 Ridgebury	Glacial Till	Somewhat poorly to very poorly drained	Stony sandy loam
61 Canton and Charlton	Glacial till	Well drained	Sandy loam
46 Woodbridge	Glacial Till	Moderately Well Drained	Sandy loam

* Wetland soil types

Wetland Descriptions and Functions

In the area of the proposed development there is a wetland system that occupies a broad lowland that stretches from Church Street north westward. The wetland itself varies from approximately 100 to 400 feet wide. It is nearly level but has hummocky micro-topography Under the USFWS system is a palustrine deciduous swamp (PF01) that is seasonally flooded/saturated. This designation reflect its vegetation which is dominated by mature trees, and its hydrology which has shallow standing water in the winter and after storm events. The wetland lacks standing water in the summer and was not found to contain a perennial stream or vernal pool.

The typical vegetation of the wetlands includes: trees such as red maple trees and saplings, yellow birch trees and saplings; shrubs such as Japanese barberry, spice bush, highbush blueberry, winterberry holly, sweet pepperbush, clammy azalea, alder and plants such as skunk cabbage, cinnamon fern, sphagnum, royal fern, and sensitive fern.

The principle functions of this wetland system are typical to local red maple swamps and the wetland is generally undisturbed with an undisturbed wooded upland buffer. The CTDEEP NDDB (December 2020) shows no known habitat of threatened, endangered or special concern species.

The functions were found to include:

- Wildlife habitat
- Floodwater retention/detention
- Groundwater recharge/discharge
- Biomass production export
- Aesthetics

These values associated with the wetland and are supported by several important features of that wetland:

- Areas of undeveloped buffer
- Limited development within the watershed
- Evidence of use by a diversity of wildlife species.

Potential for Impacts

As shown on the project plans there are proposed activities in the inland wetlands. Three wetland crossing are proposed for the driveway that will provide access to the two houses. These activities are limited to impacts necessary to provide the driveway and are purposed

located in the narrowest reaches of wetland in order to minimize impacts. This lot has significant developable area that cannot be accessed without wetland impacts. The width of the driveway has been kept to the minimum required and the use smaller diameter culverts assists in keeping the elevation of the driveway low, minimizing the side slopes needed for the crossing. CLA believes that the proposed driveway crossing is the most feasible and prudent alternative.

As shown on the plans, work in the wetland will include:

- Clearing and grading
- Construction of driveways and placement of culverts
- Installation of erosion and sedimentation controls
- Construction of utilities

The activities in the wetland have been minimized in order to limit wetland disturbance.

As shown on the plans, work in the upland review zone will include:

- Clearing and grading
- Construction of driveways
- Installation of erosion and sedimentation controls
- Construction of utilities

These activities in the upland review zone present limited potential for wetland impacts. The site has only moderate slopes and short length of slope. CLA believes that the Best Management Practices (BMPs) measures shown on the plans for erosion and sediment control and storm water management will be adequate in preventing wetland impacts if properly installed and maintained.

CLA notes that in order to minimize the potential for impacts to wetlands, the E&S has been designed in compliance with the CTDEEP 2002 E&S Manual.

Alternatives

CLA examined alternative to the proposed wetland crossings. Note that the property has frontage on Pomfret Landing Rd, which could be used to gain access via a driveway, but wetland impacts would also be required. CLA conducted a field to determine the feasibility of a driveway crossing walk of this location. CLA determined that a driveway crossing in this location is not the most feasible and prudent alternative based on the following observations.

1. The wetland that would have to be crossed has a perennial stream, indicating that is a more valuable wetland than those to be impacted by coming off of Church Street.

2. The wetland to be crossed is 12 to 14 feet lower in elevation than the access strip off of Pomfret Landing Rd. This would necessitate a wide wetland fill to accomplish the crossing.
3. The wetland to be crossed is over 100 feet wide and continues, north and south, as a wildlife travel corridor. This characteristic is lacking in the wetlands that would be disturbed by gaining access from Church Street.
4. Due to the width of the wetland and elevation change, present, a wetland crossing at the Pomfret Land access would create a substantial fragmentation of the wetland and reduce its habitat values significantly. This would not be the case with the Church Street acess.

Based on these field observations, CLA believes that the proposed wetland crossings represent the most feasible and prudent alternative.

Summary

The proposed development activities will directly impact wetlands. The work in the upland review zone can be managed with BMPS so as to not impact wetlands during construction. In summary, if the proposed erosion and sedimentation control measures are adhered to, CLA believes that the wetland impacts will be limited to what is necessary to provide a driveway for the building lost.

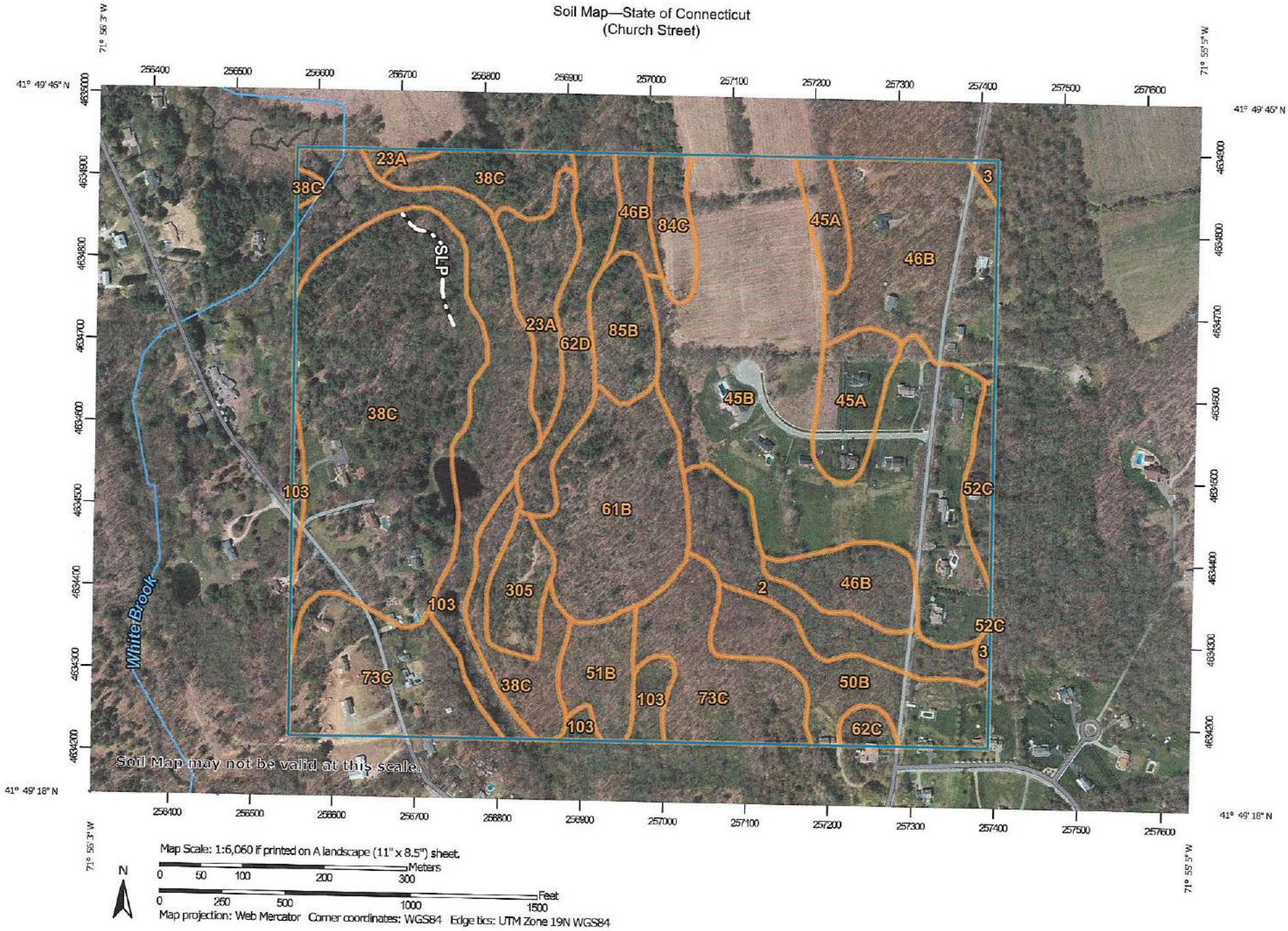
Please contact me if you have any questions.

Very truly yours,

R C Russo

Robert C. Russo
Soil Scientist

Soil Map—State of Connecticut
(Church Street)



Map Scale: 1:6,060 if printed on A landscape (11" x 8.5") sheet.

N

0 50 100 200 300 Meters

0 250 500 1000 1500 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84

USDA **Natural Resources Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut
Survey Area Data: Version 20, Jun 9, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 30, 2011—May 1, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
2	Ridgebury fine sandy loam, 0 to 3 percent slopes	5.6	3.8%
3	Ridgebury, Leicester, and Whitman soils, 0 to 8 percent slopes, extremely stony	0.4	0.3%
23A	Sudbury sandy loam, 0 to 5 percent slopes	4.1	2.8%
38C	Hinckley loamy sand, 3 to 15 percent slopes	29.8	19.8%
45A	Woodbridge fine sandy loam, 0 to 3 percent slopes	4.9	3.3%
45B	Woodbridge fine sandy loam, 3 to 8 percent slopes	28.7	19.1%
46B	Woodbridge fine sandy loam, 0 to 8 percent slopes, very stony	15.4	10.2%
50B	Sutton fine sandy loam, 3 to 8 percent slopes	6.5	4.3%
51B	Sutton fine sandy loam, 0 to 8 percent slopes, very stony	2.8	1.9%
52C	Sutton fine sandy loam, 2 to 15 percent slopes, extremely stony	1.4	0.9%
61B	Canton and Charlton fine sandy loams, 0 to 8 percent slopes, very stony	9.5	6.3%
62C	Canton and Charlton fine sandy loams, 3 to 15 percent slopes, extremely stony	0.7	0.5%
62D	Canton and Charlton fine sandy loams, 15 to 35 percent slopes, extremely stony	4.6	3.0%
73C	Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky	14.7	9.8%
84C	Paxton and Montauk fine sandy loams, 8 to 15 percent slopes	2.0	1.3%
85B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes, very stony	3.0	2.0%
103	Rippowam fine sandy loam	13.8	9.1%
305	Udorthents-Pits complex, gravelly	2.5	1.6%

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Totals for Area of Interest		150.2	100.0%

DRAINAGE NARRATI`VE

3-Lot Subdivision
Church Street, Brooklyn, CT
Prepared for
Kausch & Sons, LLC

April 30, 2021

The existing parcels consist of a total of approximately 27 acres of undeveloped woodlands located to the west of Church Street in Brooklyn Connecticut. There are inland wetlands located in the north and southern parts of the site.

The proposed development consists of 2 residential building lots served by approximately 950 L.F. of new shared driveway access from Church Street. Presently, storm water in the proposed development area drains north to south, exiting the site via the wetlands and eventually discharging to the Quinebaug River to the east.

The shared driveway for the building lots is required to cross existing wetlands in three locations. The crossing locations have been determined to minimize impact to the wetland. The crossing lengths are approximately 50, 75 and 73 feet respectively.

The following determines the size of the drainage culverts required to pass the 25-year storm event with inlet control.

Methodology:
In accordance with the Town of Brooklyn's Public Improvement Specifications, the site's watershed was analyzed using the Rational method for the 25-year storm. The Rational method predicts the peak runoff according to the formula: Q=CiA, where C is a runoff coefficient, i is the rainfall intensity, and A is the sub-catchment area.

Rainfall intensities used in the calculations were taken from the Brooklyn (06-0918) weather station readings accessed via the NOAA Atlas 14 Point Precipitation Frequency website.

DEEP watershed basin boundaries and Connecticut Elevation (Lidar) Data (See SK-1) was used to determine the approximate watershed area contributing to each driveway crossing.

The site consists primarily undeveloped woodlands. A run-off coefficient (C) of 0.2 (Unimproved Surface) was utilized. The Time of Concentration for each catchment was determined using the TR-55 method.

The peak discharge (Q) for the 25-year storm event was calculated as follows:

Peak Volume (Q) = CiA = 0.2 x 6.11 in/hr x Area (acres)

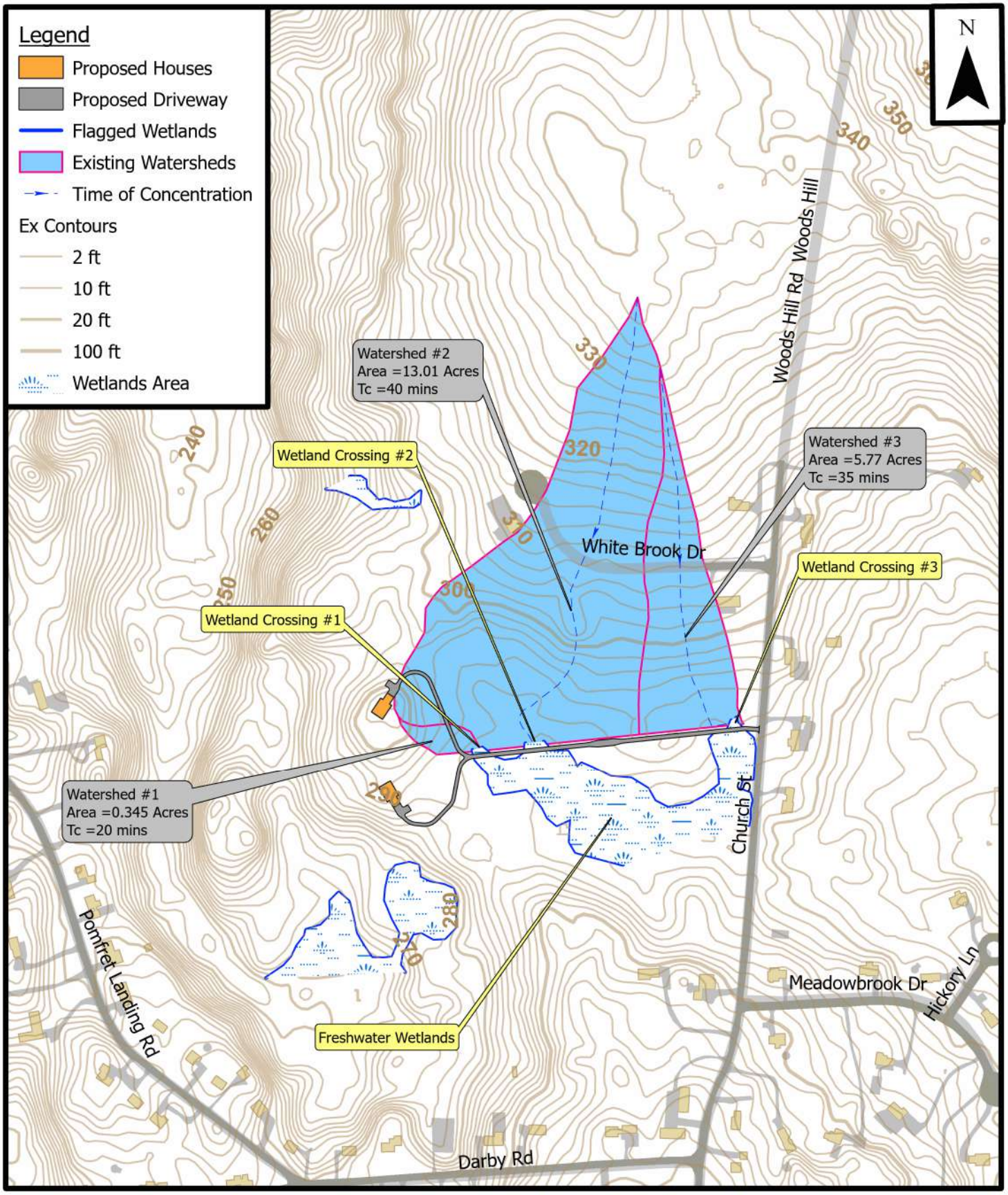
Hydrograph Reports showing peak volume discharge for each wetland crossing are shown in Appendix 1. A summary of the results is shown in the following table.

Location	Watershed Area	Tc (Mins)	Peak 25-yr Volume (cfs)	Culvert Required
Crossing 1	0.34	20	0.4	1 x 15”
Crossing 2	13.01	40	9.7	2 x 15”
Crossing 3	5.77	35	4.6	1 x 15”

Using the above results, analysis of each wetland crossing was performed to determine the size and number of culverts required to pass the peak volume at a grade consistent with the existing wetland.

Hydraflow Express culvert modeler (used in HDS-5 Hydraulic Design of Highway Culverts) was used to produce the Culvert Reports in Appendix 2.

The analysis demonstrated that the design culverts at each location have sufficient capacity to convey the peak volume.



CLA Engineers, Inc.
CIVIL • STRUCTURAL • SURVEYING

317 Main Street Norwich, Connecticut
(860) 886-1966 Fax (860) 886-9165
e-mail: cla@claengineers.com

PROPOSED WATERSHED MAP

CHURCH STREET SITE DEVELOPMENT
BROOKLYN, CT

DATE: 4/5/2021

SCALE: 1 " = 400 Ft

FIGURE

SK-1

Hydrograph Report

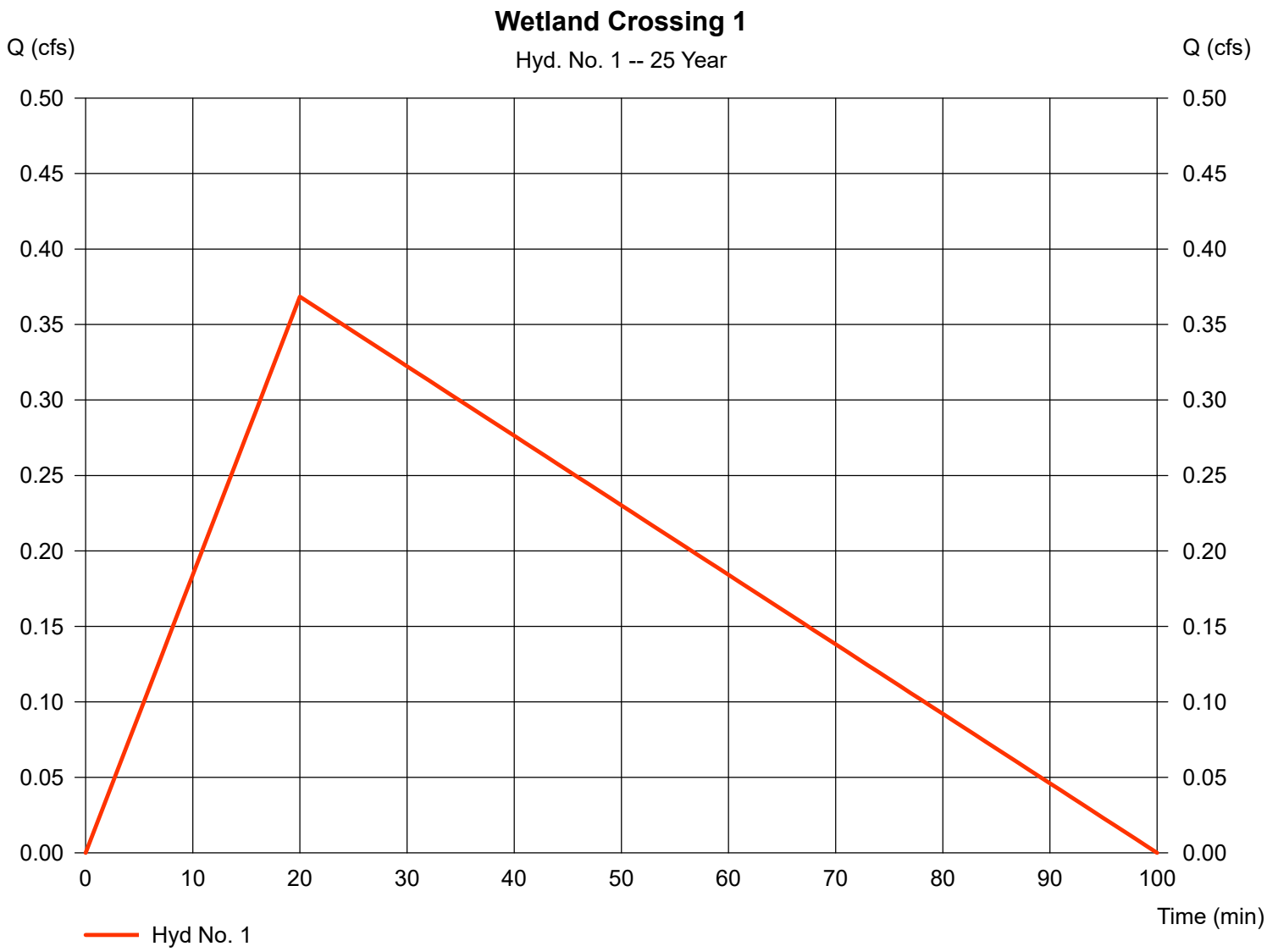
APPPENDIX 1

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2009 by Autodesk, Inc. v6.066 Monday, Apr 5, 2021

Hyd. No. 1

Wetland Crossing 1

Hydrograph type	=	Rational	Peak discharge	=	0.368 cfs
Storm frequency	=	25 yrs	Time to peak	=	20 min
Time interval	=	1 min	Hyd. volume	=	1,105 cuft
Drainage area	=	0.345 ac	Runoff coeff.	=	0.2
Intensity	=	5.339 in/hr	Tc by TR55	=	20.00 min
IDF Curve	=	6639 Church_St.IDF	Asc/Rec limb fact	=	1/4



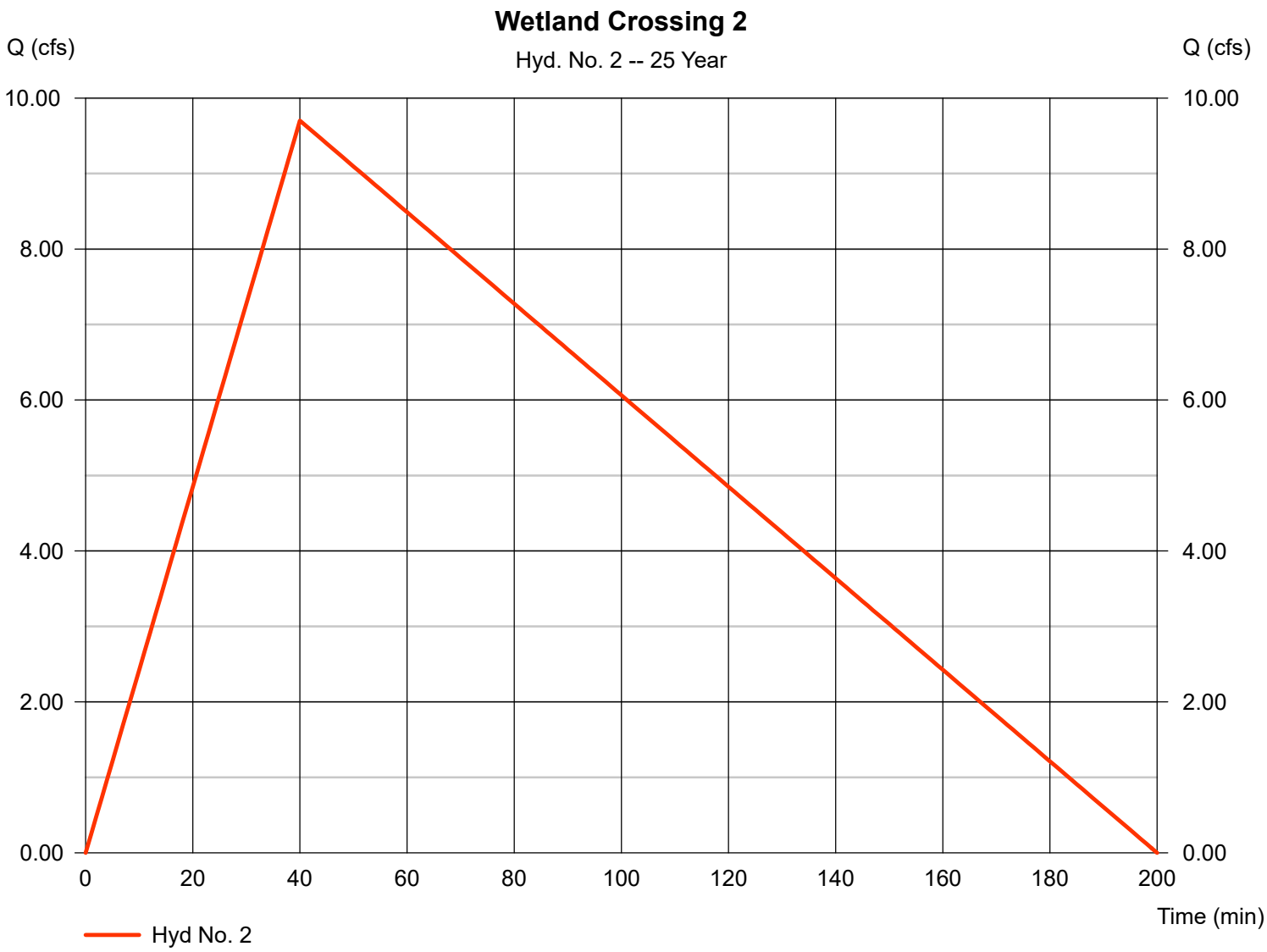
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2009 by Autodesk, Inc. v6.066 Monday, Apr 5, 2021

Hyd. No. 2

Wetland Crossing 2

Hydrograph type	=	Rational	Peak discharge	=	9.701 cfs
Storm frequency	=	25 yrs	Time to peak	=	40 min
Time interval	=	1 min	Hyd. volume	=	58,207 cuft
Drainage area	=	13.010 ac	Runoff coeff.	=	0.2
Intensity	=	3.728 in/hr	Tc by TR55	=	40.00 min
IDF Curve	=	6639 Church_St.IDF	Asc/Rec limb fact	=	1/4



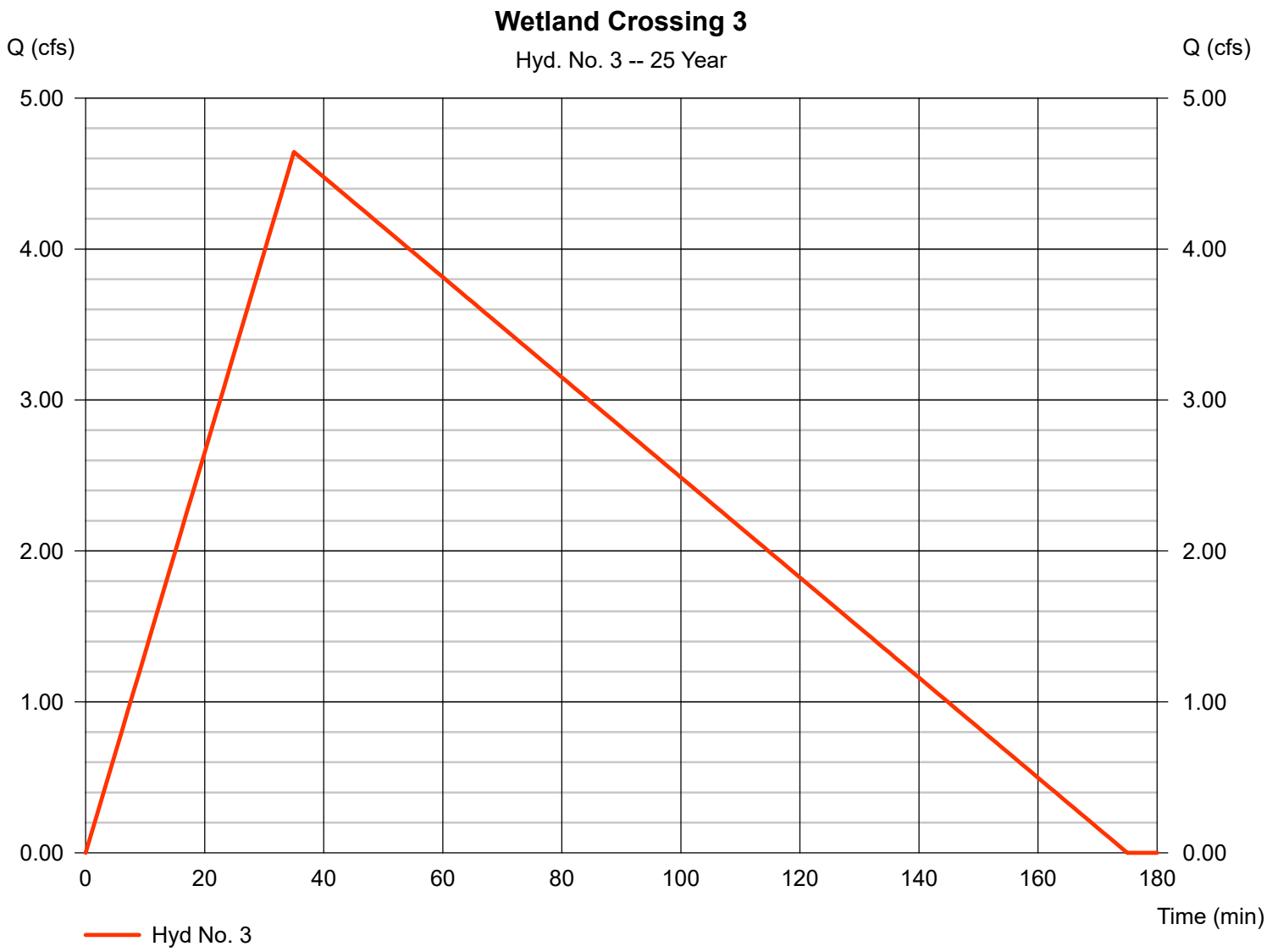
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2009 by Autodesk, Inc. v6.066 Monday, Apr 5, 2021

Hyd. No. 3

Wetland Crossing 3

Hydrograph type	=	Rational	Peak discharge	=	4.643 cfs
Storm frequency	=	25 yrs	Time to peak	=	35 min
Time interval	=	1 min	Hyd. volume	=	24,375 cuft
Drainage area	=	5.770 ac	Runoff coeff.	=	0.2
Intensity	=	4.023 in/hr	Tc by TR55	=	35.00 min
IDF Curve	=	6639 Church_St.IDF	Asc/Rec limb fact	=	1/4



Culvert Report

Hydraflow Express Extension for AutoCAD® Civil 3D® 2009 by Autodesk, Inc. Friday, Apr 30 2021

Wetland Crossing 1

Invert Elev Dn (ft)	=	287.80
Pipe Length (ft)	=	24.00
Slope (%)	=	0.21
Invert Elev Up (ft)	=	287.85
Rise (in)	=	15.0
Shape	=	Cir
Span (in)	=	15.0
No. Barrels	=	1
n-Value	=	0.012
Inlet Edge	=	Projecting
Coeff. K,M,c,Y,k	=	0.0045, 2, 0.0317, 0.69, 0.5

Embankment

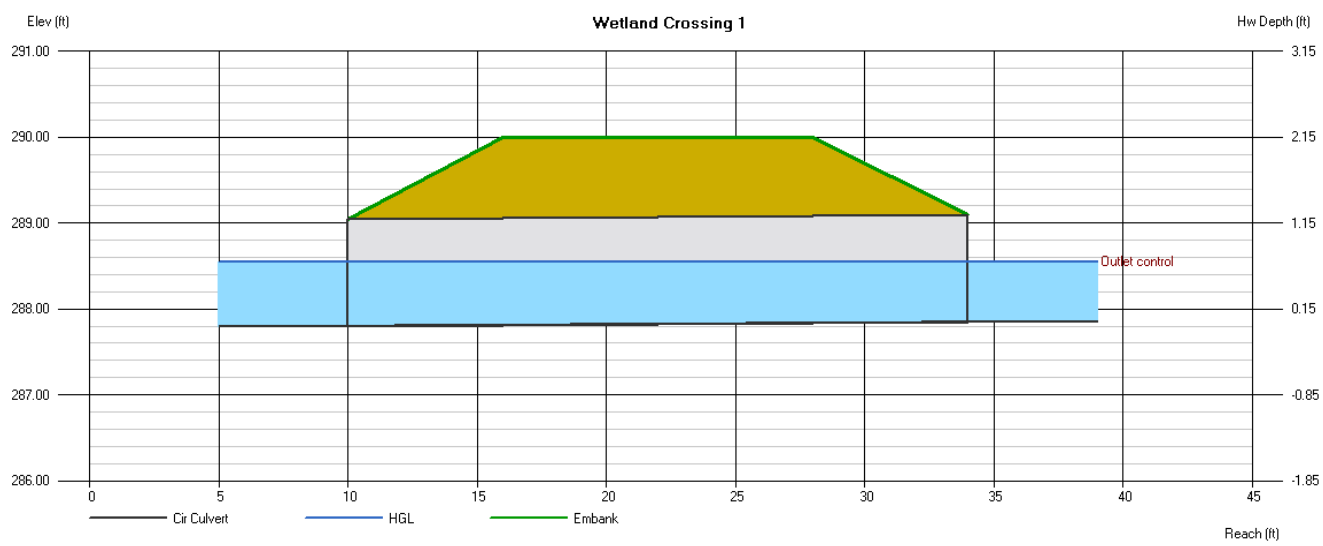
Top Elevation (ft)	=	290.00
Top Width (ft)	=	12.00
Crest Width (ft)	=	50.00

Calculations

Qmin (cfs)	=	0.30
Qmax (cfs)	=	0.50
Tailwater Elev (ft)	=	(dc+D)/2

Highlighted

Qtotal (cfs)	=	0.40
Qpipe (cfs)	=	0.40
Qovertop (cfs)	=	0.00
Veloc Dn (ft/s)	=	0.52
Veloc Up (ft/s)	=	0.57
HGL Dn (ft)	=	288.55
HGL Up (ft)	=	288.55
Hw Elev (ft)	=	288.55
Hw/D (ft)	=	0.56
Flow Regime	=	Outlet Control



Culvert Report

Hydraflow Express Extension for AutoCAD® Civil 3D® 2009 by Autodesk, Inc. Friday, Apr 30 2021

Wetland Crossing 2

Invert Elev Dn (ft)	=	285.90
Pipe Length (ft)	=	24.00
Slope (%)	=	0.83
Invert Elev Up (ft)	=	286.10
Rise (in)	=	15.0
Shape	=	Cir
Span (in)	=	15.0
No. Barrels	=	2
n-Value	=	0.012
Inlet Edge	=	Projecting
Coeff. K,M,c,Y,k	=	0.0045, 2, 0.0317, 0.69, 0.5

Embankment

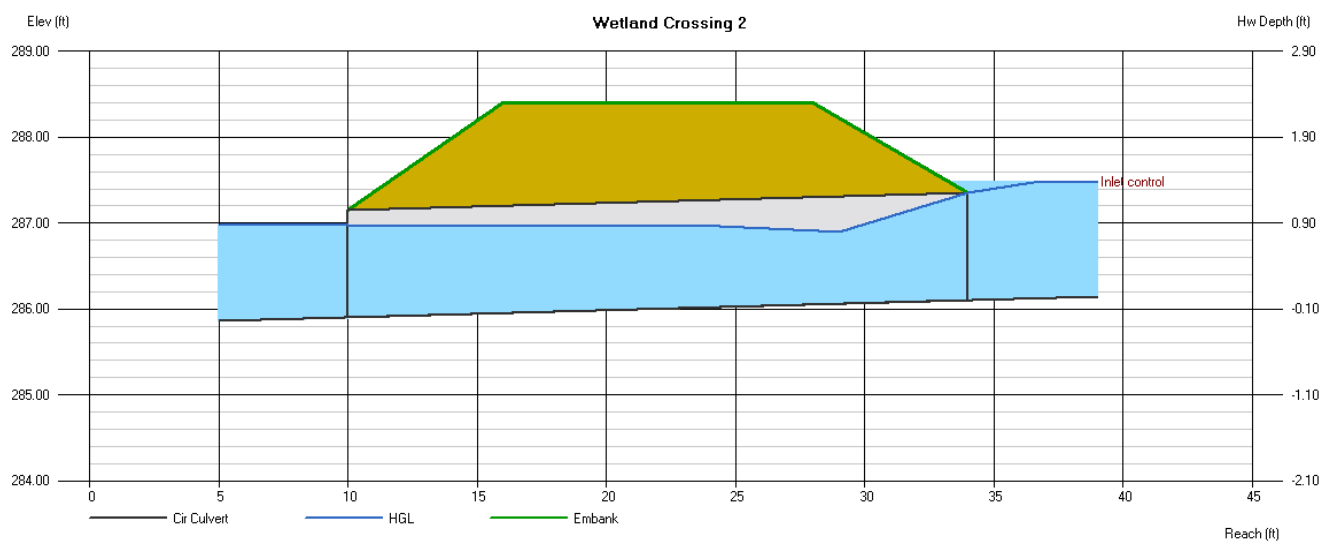
Top Elevation (ft)	=	288.40
Top Width (ft)	=	12.00
Crest Width (ft)	=	50.00

Calculations

Qmin (cfs)	=	9.60
Qmax (cfs)	=	9.80
Tailwater Elev (ft)	=	(dc+D)/2

Highlighted

Qtotal (cfs)	=	9.70
Qpipe (cfs)	=	9.70
Qovertop (cfs)	=	0.00
Veloc Dn (ft/s)	=	4.33
Veloc Up (ft/s)	=	5.13
HGL Dn (ft)	=	286.97
HGL Up (ft)	=	287.00
Hw Elev (ft)	=	287.48
Hw/D (ft)	=	1.10
Flow Regime	=	Inlet Control



Culvert Report

Hydraflow Express Extension for AutoCAD® Civil 3D® 2009 by Autodesk, Inc. Friday, Apr 30 2021

Wetland Crossing 3

Invert Elev Dn (ft)	=	287.80
Pipe Length (ft)	=	24.00
Slope (%)	=	6.25
Invert Elev Up (ft)	=	289.30
Rise (in)	=	15.0
Shape	=	Cir
Span (in)	=	15.0
No. Barrels	=	1
n-Value	=	0.012
Inlet Edge	=	Projecting
Coeff. K,M,c,Y,k	=	0.0045, 2, 0.0317, 0.69, 0.5

Embankment

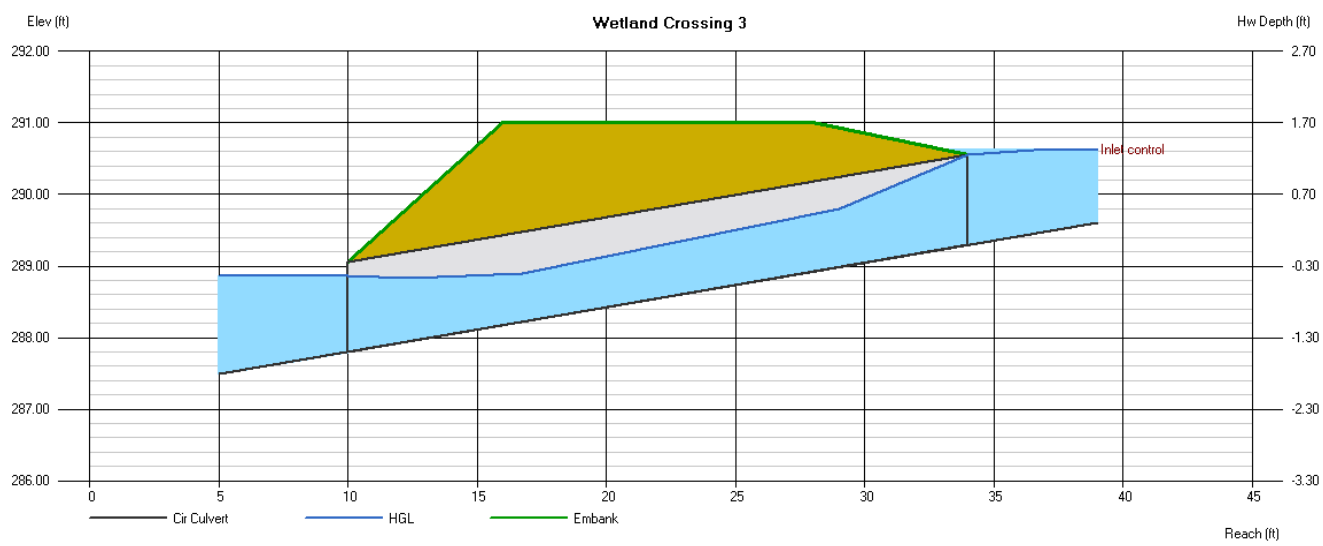
Top Elevation (ft)	=	291.00
Top Width (ft)	=	12.00
Crest Width (ft)	=	50.00

Calculations

Qmin (cfs)	=	4.50
Qmax (cfs)	=	4.70
Tailwater Elev (ft)	=	(dc+D)/2

Highlighted

Qtotal (cfs)	=	4.60
Qpipe (cfs)	=	4.60
Qovertop (cfs)	=	0.00
Veloc Dn (ft/s)	=	4.14
Veloc Up (ft/s)	=	5.02
HGL Dn (ft)	=	288.86
HGL Up (ft)	=	290.17
Hw Elev (ft)	=	290.63
Hw/D (ft)	=	1.06
Flow Regime	=	Inlet Control



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

Pomfret Landing Rd./ Church Street
Address

4/29/21
Date

I met Paul Archer, Andrew + Jake Kausch. I inspected and took photos.

There is a lot of skunk cabbage outside the delineated wetlands as you enter the site off Church Street.

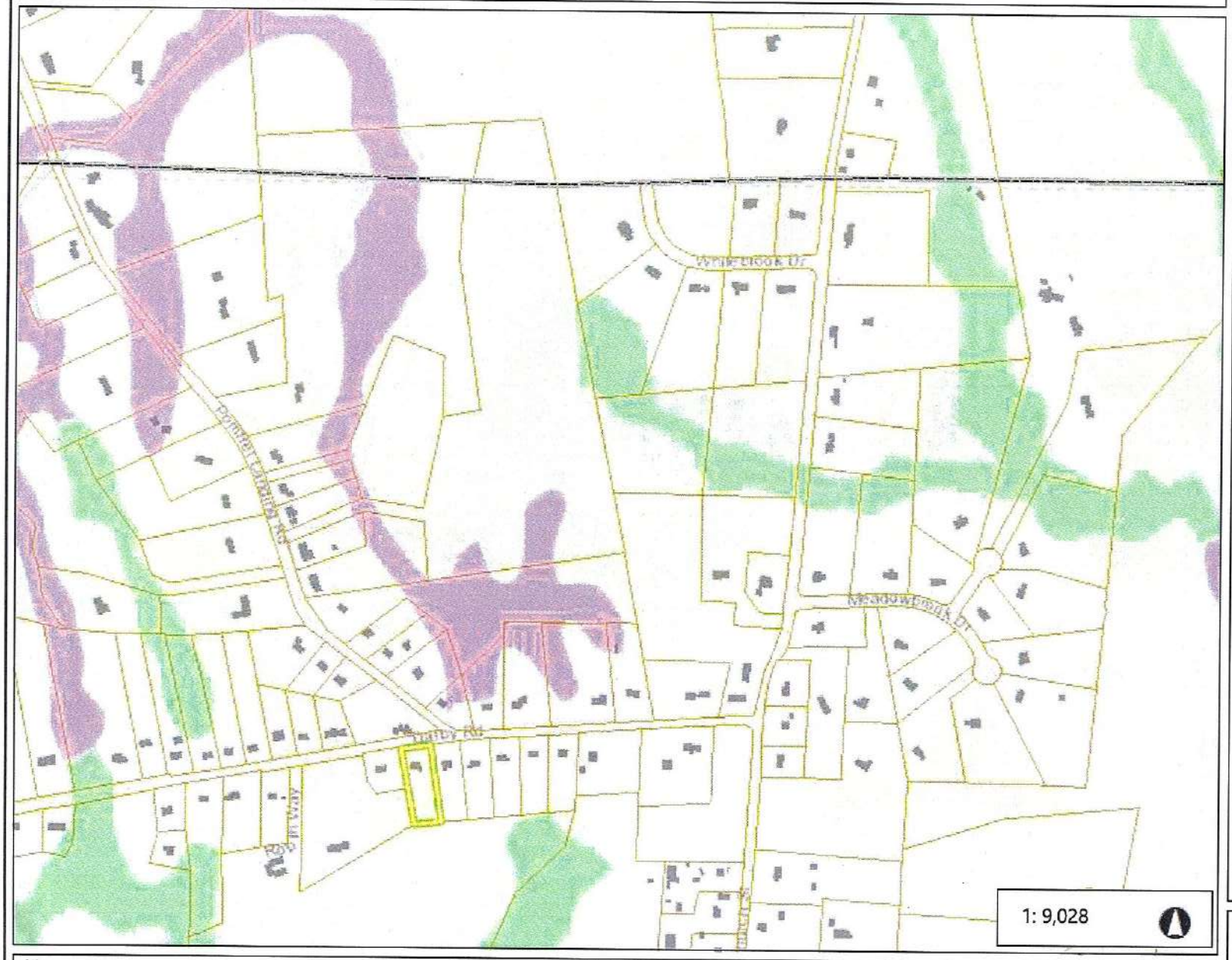
Commission Representative M. Washburn

Owner or Authorized Signature _____

↓Skunk cabbage outside flaggedwetlands

neccog

Neccog GIS Site



Legend

- Town
- Buildings 2012
- Parcels
- Wetlands
  - Alluvial and Floodplain Soils
  - Poorly Drained and Very Poorly Dra

0.3 0 0.14 0.3 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere

© Latitude Geographics Group Ltd.

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

Notes

Church Street, Pomfret Landing Road and White Brook Drive NECCOG GIS wetlands

REVISED:

INLAND WETLANDS & WATERCOURSES COMMISSION
TOWN OF BROOKLYN, CONECTICUT

Date 7/13/21

Application # 071321A

APPLICATION -- INLAND WETLANDS & WATERCOURSES

APPLICANT A. KARSCH & SONS MAILING ADDRESS 15 BEACH VIEW RD, EXT. VOLUNTOWN
APPLICANT'S INTEREST IN PROPERTY OWNER PHONE 860 230 9928 EMAIL ANDREW KARSCH@YAHOO.COM

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

ENGINEER/SURVEYOR (IF ANY) ARCHER SURVEYING LLC / CLA ENGINEERS
ATTORNEY (IF ANY) _____

PROPERTY LOCATION/ADDRESS PONFRET LANDING ROAD / CHURCH STREET
MAP # 37 37 LOT # 20/21 17 ZONE RA TOTAL ACRES 27± ACRES OF WETLANDS ON PROPERTY 6±

PURPOSE AND DESCRIPTION OF THE ACTIVITY WETLAND CROSSING FOR DRIVEWAY
2 RESIDENTIAL HOMES, SEPTIC SYSTEMS, WELLS, MINOR GRADING

WETLANDS EXCAVATION AND FILL:
FILL PROPOSED _____ CUBIC YDS _____ SQ FT 3,650 SQFT
EXCAVATION PROPOSED _____ CUBIC YDS _____ SQ FT 0
LOCATION WHERE MATERIAL WILL BE PLACED: ON SITE ✓ OFF SITE _____
TOTAL REGULATED AREA ALTERED: SQ FT ~~20,000~~ 38,000 SQFT ACRES ~~.4±~~ .80

EXPLAIN ALTERNATIVES CONSIDERED (REQUIRED): SEE ATTACHED REPORT FROM ROBERT RUSSO

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

IS ~~PARCEL~~ ACTIVITY 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: _____ DATE 6/30/21

OWNER: _____ DATE 6/30/21

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JUL 13 2021

Revised 10/26/16

Abutters of A. Kausch & Sons (Map 37 / Lots 17, 17-1, 20 & 21)

Eric & Cory Strandson
3 White Brook Drive
Brooklyn CT 06234
37/22-1

James & Deborah Warren
9 White Brook Drive
Brooklyn CT 06234
37/22-2

Drew & Carla Mizak
15 White Brook Drive
Brooklyn CT 06234
37/22-3

Alan & Heidi Carpenter
23 White Brook Drive
Brooklyn CT 06234
37/22-4

Michael Podzaline &
Erin King
27 White Brook Drive
Brooklyn CT 06234
37/22-5

OJA Thure
333 Woods Hill Road
Pomfret CT
47/D/5.00

Henry & Sandra Yakey
353 Searles Road
Pomfret CT
47/D/6.00

Henry & Sandra Yakey
64 Pomfret Landing Road
Brooklyn CT 06234
37/12

The State of Connecticut
Pomfret Landing Road
Brooklyn CT 06234
37/14

Douglas & Susan Clark
42 Pomfret Landing Road
Brooklyn CT 06234
37/18

Vincent Rossetti
36 Pomfret Landing Road
Brooklyn CT 06234
37/19

Jerry & Debra Sullivan
28 Pomfret Landing Road
Brooklyn CT 0624
36/44

Brooklyn Manor LLC
371 Church Street
Brooklyn CT 06234
36/54

James & Meredith Crabtree
375 Church Street
Brooklyn CT 06234

RECEIVED

APR 0 7 2021

INLAND WETLANDS & WATERCOURSES COMMISSION
TOWN OF BROOKLYN, CONECTICUT

Date _____ Application # 041321D

APPLICATION -- INLAND WETLANDS & WATERCOURSES

APPLICANT A. KAISCH & SONS MAILING ADDRESS 15 BEACH VIEW RD EXT, VOLUNTOWN
APPLICANT'S INTEREST IN PROPERTY OWNER PHONE _____ _____ EMAIL _____

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

ENGINEER/SURVEYOR (IF ANY) ARCHER SURVEYING LLC, CLA ENGINEERS
ATTORNEY (IF ANY) _____

PROPERTY LOCATION/ADDRESS POMFRET LANDING RD / CHURCH STREET
MAP # 37 37 LOT # 20/21 17 ZONE RA TOTAL ACRES 29± ACRES OF WETLANDS ON PROPERTY 6±

PURPOSE AND DESCRIPTION OF THE ACTIVITY WETLANDS CROSSING FOR DRIVEWAY
2 RESIDENTIAL HOMES, SEPTIC SYSTEM, WELL - MINOR GRADING

WETLANDS EXCAVATION AND FILL:
FILL PROPOSED _____ CUBIC YDS _____ SQ FT [redacted] 3,650 SQFT
EXCAVATION PROPOSED _____ CUBIC YDS _____ SQ FT 0
LOCATION WHERE MATERIAL WILL BE PLACED: ON SITE ✓ OFF SITE _____
TOTAL REGULATED AREA ALTERED: SQ FT [redacted] 20,000 ACRES [redacted] .4±

EXPLAIN ALTERNATIVES CONSIDERED (REQUIRED): _____

MITIGATION MEASURES (IF REQUIRED): WETLANDS/WATERCOURSES CREATED: CY _____ 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 4/5/21

OWNER: [signature] DATE 4/5/21

Connecticut Department of
ENERGY & ENVIRONMENTAL PROTECTION

GIS CODE #: ___ ___ ___ ___ ___ ___ ___ ___ ___
For DEEP Use Only

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

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. Kaiser & Sons
8. NAME & ADDRESS / LOCATION OF PROJECT SITE (print information): Church St / ~~Bandy Rd~~ Pomfret Landing
   briefly describe the action/project/activity (check and print information): temporary ☐ permanent ☑ description: Driveway, Residential Homes
9. ACTIVITY *PURPOSE* CODE (see instructions, only use one code): B
10. ACTIVITY *TYPE* CODE(S) (see instructions for codes): 1, 9, 12, _____
11. WETLAND / WATERCOURSE AREA ALTERED (must provide acres or linear feet):
    wetlands: .08 acres open water body: _____ acres stream: _____ linear feet
12. UPLAND AREA ALTERED (must provide acres): .005 acres
13. AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (must provide acres): Ø acres

DATE RECEIVED:

PART III: To Be Completed By The DEEP

DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO

FORM CORRECTED / COMPLETED: YES NO

REQUIREMENTS

_____ APPLICATION FEE $ 150 STATE FEE ($60.00) 60 $210

_____ 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

Brooklyn Inland Wetlands
Commission
P.O. Box 356
Brooklyn, Connecticut 06234

TOWN OF BROOKLYN
INLAND WETLANDS COMMISSION
PUBLIC HEARING NOTICE

The Brooklyn Inland Wetlands and Watercourses Commission will hold a hybrid public hearing on Tuesday, August 10, 2021, at 6:00 p.m. via a virtual WebEx Meeting and at the Clifford B. Green Community Meeting Room, Suite 24, 69 South Main Street on the following:

071321A A. Kausch & Sons, Pomfret Landing Road/Church Street, Map 37, Lot 17 and Map 37 Lot 20/21, Wetlands crossing for driveway, 2 residential homes, septic systems, wells, minor grading.

A copy of the application is available for review.

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

Jeffrey Arends
Chairman

Dated this 14th day of July 2021

PUBLIC HEARING
DEALING WITH THESE PREMISES
IS TO BE HELD ON
AUGUST 10TH @ 5:00PM FOR
MORE INFORMATION CONTACT
THE BROOKLYN
LAND USE DEPARTMENT

PUBLIC HEARING

NORTHEAST DISTRICT DEPARTMENT OF HEALTH
69 SOUTH MAIN STREET
BROOKLYN, CT 06234
(860) 774-7350

SITE INVESTIGATION FOR A SUBSURFACE SEWAGE DISPOSAL SYSTEM

File # 21000307 Map # 37 Block # _____ Lot # 17

Property Owner A. Kausch + Sons LLC Address Pomfret Landing Road, Brooklyn

DEEP TEST PIT DATA/SOIL DESCRIPTIONS

DATE: 3/29/21

TEST PIT: 1	TEST PIT: 2	TEST PIT: 3	TEST PIT: 4
0-10" Top Soil / Organics 10"-16" Orange Brown Fine Sand Loam 16"-34" Tan Compact Sand Loam 34"-78" Grey Sand + Gravel	0-10" Top Soil / Organics 10"-27" Dark Brown Fine Sand 27"-48" Grey Compact Sand 48"-70" Sand + Gravel	0-12" Top Soil / Organics 12"-30" Tan Orange Fine Sand Loam 30"-48" Grey Sand Layer 48"-72" Sand + Gravel	0-10" Top Soil / Organics 10"-24" Tan Orange Fine Sand Loam 24"-80" Saturated Grey Sand + gravel
Mottles: 36"	Mottles: 32"	Mottles: 30"	Mottles: 28"
GW: 66"	GW: 62"	GW: 65"	GW: 74"
Ledge: -	Ledge:	Ledge:	Ledge:
Roots: 46"	Roots: 32"	Roots:	Roots: 30"
Restrictive:	Restrictive:	Restrictive:	Restrictive:

COMMENTS: _____

GROUNDWATER TABLE (Near max., below max., etc.): _____
SOIL MOISTURE (High, medium, low, etc.): _____

PERCOLATION TEST DATA

DATE: 3/29/21

PERC: 1		PERC: 2		PERC:		PERC:	
DEPTH: 23"		DEPTH: 17"		DEPTH:		DEPTH:	
PRESOAK: 2 hours		PRESOAK: 2 hours		PRESOAK:		PRESOAK:	
TIME	READING	TIME	READING	TIME	READING	TIME	READING
11:10	6"	11:04	6.25"				
11:12	7"	11:10	8.25"				
11:14	8"	11:16	9.75"				
11:16	8.5"	11:22	10.625"				
11:18	9.25"	11:34	12.125"				
11:20	9.5"	11:46	13.125"				
11:22	10"	11:58	14.625"				
11:25	11"						
11:28	11.5						
PERC RATE: 6 min/in		PERC RATE: 8 min/in		PERC RATE:		PERC RATE:	

11:31 = 12"

COMMENTS: _____

NORTHEAST DISTRICT DEPARTMENT OF HEALTH
69 SOUTH MAIN STREET
BROOKLYN, CT 06234
(860) 774-7350
SITE INVESTIGATION FOR A SUBSURFACE SEWAGE DISPOSAL SYSTEM

File # 21000307 Map # 37 Block # _____ Lot # 17

Property Owner A. Kausch + Sons LLC Address Pomfret Landing Road, Brooklyn

LOCATION DRAWING INCLUDING ALL TEST PITS AND PERCOLATION HOLES

* Test pits and perc holes surveyor located.

SPECIAL CONDITIONS		DESIGN RECOMMENDATIONS	
Design Flow > 2000 GPD		Suitable for Sewage Disposal	✓
Public Water Supply Watershed		Unsuitable for Sewage Disposal	
Probable High Groundwater	✓	Wet Season Monitoring Required	
Slope > 25 percent		Engineered Plan Required	✓
Perc Rate < 1 min/inch		Surveyor Plan Required	
Perc Rate > 30 min/inch		Septic Installer Plan Required	
Ledge < 5 feet below grade		Number of Bedrooms	3
Limited Suitable Area		Gallons Per Day (Non-Residential)	
Open Watercourse or Wetlands	✓	Size of Septic Tank Required	1,000 gallon
Flood Plain / Seasonal Flooding		Effective Leaching Area Required	495 sq ft
Max. G.W. < 36 inches below grade		Maximum Depth into Grade	10 inches

DESIGN RECOMMENDATIONS/COMMENTS

A septic system for a 3 bedroom home requires a 1,000 gallon tank and 495 sq ft of ELA. The max depth into existing grade for the system is 10" inches. In the area of TP 1 and TP2 the max depth into existing grade is 14" inches.

Investigated By:
Donovan Moe 3/29/21 Title: EHS

Witnessed By:
Steve Knauf Title: RS

Copies To: Applicant _____ Other _____

August 24, 2021

Re: Church Street / Pomfret Landing Road
Map 37 Lots 17, 17-1, 20, 21

To Whom It May Concern,

As an abutter of the above mentioned property, you are being notified that an application for a Wetlands Crossing has been submitted to the Inland Wetlands and Watercourses Commission on behalf of A.Kausch and Sons.

A Public Hearing has been scheduled for Tuesday September 14th at 6:00PM.

To view the full application and more information, please contact the Brooklyn Planning Department.

Sincerely,

Paul Archer, L.S.
Archer Surveying

RECEIVED
SEP - 8 2021

Abutters of A. Kausch & Sons (Map 37 / Lots 17, 17-1, 20 & 21)

Eric & Cory Strandson
3 White Brook Drive
Brooklyn CT 06234
37/22-1

James & Deborah Warren
9 White Brook Drive
Brooklyn CT 06234
37/22-2

Drew & Carla Mizak
15 White Brook Drive
Brooklyn CT 06234
37/22-3

Alan & Heidi Carpenter
23 White Brook Drive
Brooklyn CT 06234
37/22-4

Michael Podzaline &
Erin King
27 White Brook Drive
Brooklyn CT 06234
37/22-5

OJA Thure
333 Woods Hill Road
Pomfret CT
47/D/5.00

Henry & Sandra Yakey
353 Searles Road
Pomfret CT
47/D/6.00

Henry & Sandra Yakey
64 Pomfret Landing Road
Brooklyn CT 06234
37/12

The State of Connecticut
Pomfret Landing Road
Brooklyn CT 06234
37/14
450 Capitol Ave
Hartford, CT 06106

Douglas & Susan Clark
42 Pomfret Landing Road
Brooklyn CT 06234
37/18

Vincent Rossetti
36 Pomfret Landing Road
Brooklyn CT 06234
37/19

Jerry & Debra Sullivan
28 Pomfret Landing Road
Brooklyn CT 0624
36/44

Brooklyn Manor LLC
371 Church Street
Brooklyn CT 06234
36/54
Owner: 46 Pole Bridge Road
Woodstock, CT 06281

James & Meredith Crabtree
375 Church Street
Brooklyn CT 06234

Tracy Elliot
46 Pomfret Landing Road
Brooklyn, CT 06234

Carl & Patricia Maiorino
426 Church Street
Brooklyn, CT 06234

Sean & Tina Whiteley
412 Church Street
Brooklyn CT 06234

Joseph & Stephanie Pelletier
420 Church Street
Brooklyn CT 06234

Deborah Ethier
6 Meadowbrook Drive
Brooklyn, CT 06234

Valerie Gamble
43 Pomfret Landing Road
Brooklyn, CT 06234

7017 2620 0001 1836 3708

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$	

Sent To: Eric & Cory Strandson

Street and Apt. No., or PO Box No.: 3 White Brook Drive

City, State, ZIP+4®: Brooklyn CT 06234

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Sent To: Henry & Sandra Yakey
Street and Apt. No., or PO Box No.: 64 Pomfret Landing Rd
City, State, ZIP+4®: Brooklyn CT 06234

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Sent To: OJA Thune
Street and Apt. No., or PO Box No.: 130 Barrett Hill Rd
City, State, ZIP+4®: Brooklyn CT 06234

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Postage $0.55

Total Postage and Fees $7.00

Postmark Here: AUG 2021 — 08/27/2021

Sent To: Michael Podzaline & Erin King
Street and Apt. No., or PO Box No.: 21 White Brook Drive
City, State, ZIP+4®: Brooklyn CT 06234

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- Adult Signature Restricted Delivery $

Postage $0.55

Total Postage and Fees $7.00

Postmark Here: 08/27/2021

Sent To: Alan & Heidi Carpenter
Street and Apt. No., or PO Box No.: 23 White Brook Drive
City, State, ZIP+4®: Brooklyn CT 06234

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- Adult Signature Restricted Delivery $

Postage $0.55

Total Postage and Fees $7.00

Postmark Here: AUG 2021 — 08/27/2021

Sent To: Drew + Carla Mizak
Street and Apt. No., or PO Box No.: 15 White Brook Dr
City, State, ZIP+4®: Brooklyn CT 06234

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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- Adult Signature Required $ $0.00
- Adult Signature Restricted Delivery $

Postage $0.55

Total Postage and Fees $7.00

Postmark Here: AUG 2021 — 08/27/2021

Sent To: James & Deborah Warren
Street and Apt. No., or PO Box No.: 9 White Brook Drive
City, State, ZIP+4®: Brooklyn CT 06234

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- Return Receipt (electronic) $ $0.00
- Certified Mail Restricted Delivery $ $0.00
- Adult Signature Required $ $0.00
- Adult Signature Restricted Delivery $

Postage $0.55
$
Total Postage and Fees $7.00
$

0234
8

Postmark Here
08/27/2021

Sent To: James & Meredith Crabtree
Street and Apt. No., or PO Box No.: 375 Church Street
City, State, ZIP+4®: Brooklyn CT 06234

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Woodstock, CT 06281
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$ $2.85
Extra Services & Fees (check box, add fee as appropriate)
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- Return Receipt (electronic) $ $0.00
- Certified Mail Restricted Delivery $ $0.00
- Adult Signature Required $ $0.00
- Adult Signature Restricted Delivery $

Postage $0.55
$
Total Postage and Fees $7.00
$

0234
8

Postmark Here
08/27/2021

Sent To: Brooklyn Manor LLC
Street and Apt. No., or PO Box No.: 46 Polk Bridge Rd
City, State, ZIP+4®: Woodstock CT 06281

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Photos emailed on 8/27/21 by Andrew Kausch

Photos emailed on 8/27/21 by Andrew Kausch

7/27/2021

I, Shane O'Connor, hereby grant permission for members of the Brooklyn Inland Wetlands and Watercourses Commission to enter my property at 181 Paradise Drive for a site walk.

Signed,

Shane O'Connor

Date: 7/27/21

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neccog

181 Paradise Dr. sitesketch 7/27/21

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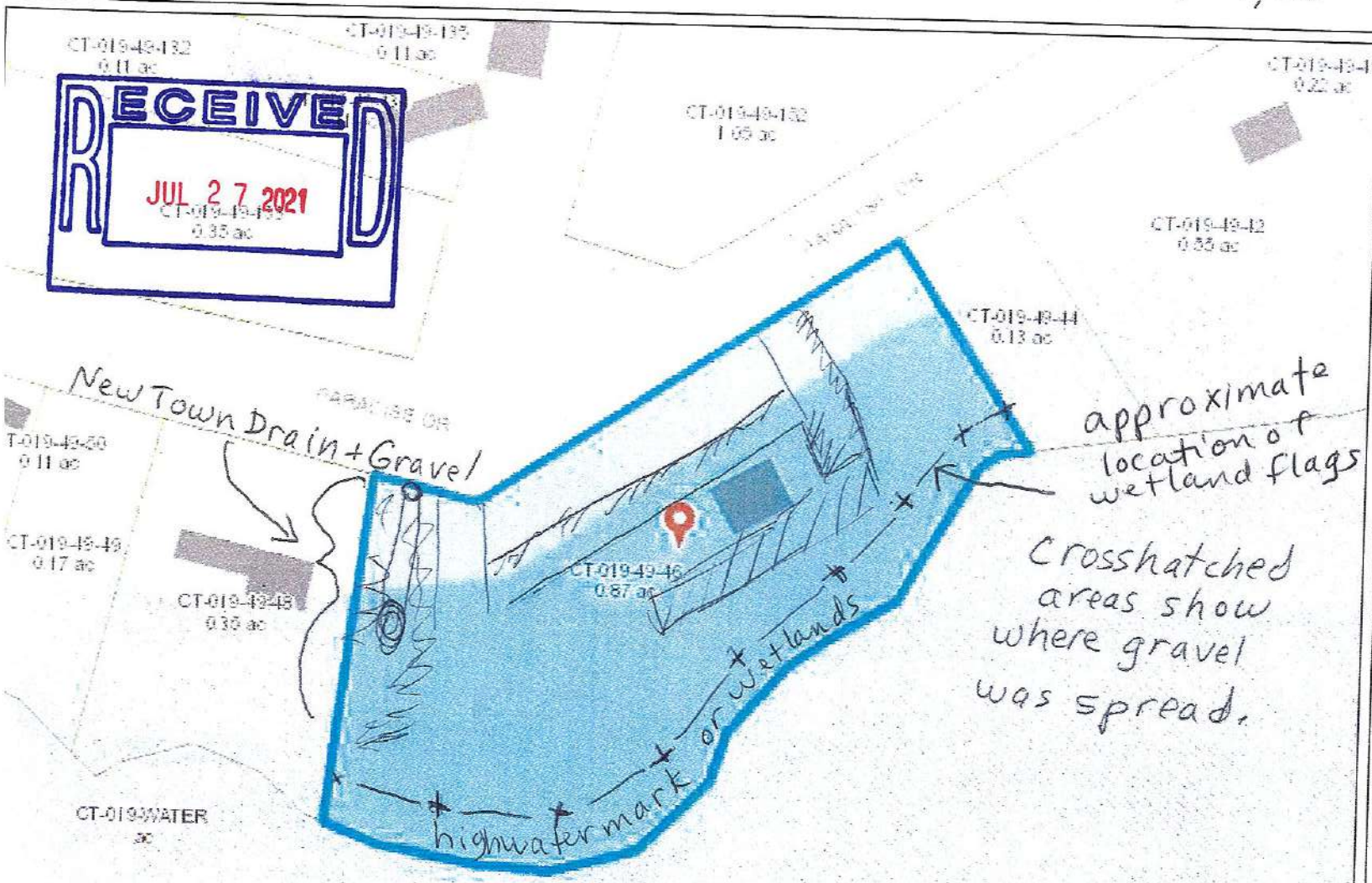

Vines and picky bushes along the bank of the pond were removed.

Legend
- Town
- Buildings 2012
- Parcels

Vegetation was removed from the entire lot - vines, leaning and dead trees. Storm-damaged trees have been removed

1: 1,128

0 0 0.02 0.0 Miles

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Notes
181 Paradise Drive

neccog

Neccog GIS Site

Legend

- Town
- Buildings 2012
- Parcels

Notes

181 Paradise Drive

0.0 0 0.02 0.0 Miles

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JOSEPH R. THEROUX
~ CERTIFIED FORESTER/ SOIL SCIENTIST ~
PHONE 860-428-7992~ FAX 860-376-6842
P.O. BOX 32, VOLUNTOWN, CT. 06384
FORESTRY SERVICES ~ WETLAND IMPACT ASSESSMENTS
WETLAND DELINEATIONS AND PERMITTING ~ E&S/SITE MONITORING
WETLAND FUNCTION/VALUE ASSESSMENTS

5/24/2021

TOWN OF BROOKLYN
INLAND WETLANDS AND WATERCOURSES COMMISSION
69 SOUTH MAIN ST.
BROOKLYN, CT.06234

RE: WETLAND DELINEATION, 181 PARADISE DR. BROOKLYN, CT.

DEAR COMMISSIONERS:

AT THE REQUEST OF MR. O'CONNOR, I HAVE DELINEATED THE INLAND WETLANDS AND WATERCOURSE ON THE SUBJECT PROPERTY.

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

FLUORESCENT PINK FLAGS WITH A CORRESPONDING LOCATION NUMBER DELINEATE THE BOUNDARIES OF THESE INLAND WETLANDS/WATERCOURSE AND THE ADJACENT UPLAND SOILS.

WETLAND FLAGS WF- 1 THROUGH WF-16 DELINEATE THE HIGH WATER MARK AND/OR THE ADJACENT WETLAND SOILS ALONG THE SHORE OF TATNIC POND.

IN SOME AREAS THE DELINEATION LINE WAS THE HIGH WATER MARK WHERE IT MEETS THE UPLAND SOILS. IN OTHER AREAS, WETLAND SOILS WERE FOUND ADJACENT TO THE SHORELINE.

ALONG SOME OF THE EASTERN PORTIONS OF THE SHORELINE, ESPECIALLY IN FRONT OF THE EXISTING RESIDENCE, HISTORIC FILL MATERIALS, (SAND, SILT, GRAVEL), WERE FOUND ON TOP OF THE ORIGINAL WETLAND SOILS.

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

UPLAND REVIEW AREA/WETLANDS ACTIVITIES:

THE MAJORITY OF THE ACTIVITY WITHIN THE UPLAND REVIEW AREAS INCLUDED THE CUTTING AND PROCESSING OF TREES AND BRUSH IN THE WESTERN PORTION OF THE PROPERTY, REMOVAL OF SIGNIFICANT QUANTITIES OF SCRAP AND GARBAGE, (NUMEROUS DUMPSTERS), THE BURNING OF BRUSH, RAKING, GRADING AND LEVELING AND THE ADDITION OF FILL MATERIALS SUCH AS CRUSHED STONE.

THE ACTIVITIES I OBSERVED WITHIN THE DELINEATED WETLAND SOILS ADJACENT TO THE POND WERE SOME LIMITED CUTTING OF SHRUB, SAPLING AND HERBACEOUS VEGETATION, RAKING AND GRADING ALONG THE SHORELINE, AND THE DEPOSITION OF CRUSHED STONE ALONG THE DELINEATION LINE IN FRONT OF THE RESIDENCE.

WETLAND IMPACTS:

THE REMOVAL OF HERBACEOUS AND SHRUB VEGETATION DIRECTLY ADJACENT TO THE SHORELINE IN THE WESTERN PORTION OF THE PARCEL HAS IMPACTED THE HABITAT IN THE RIPARIAN ZONE. PRIOR TO THIS, THE HABITAT AND COVER FOR WILDLIFE WAS SUBSTANTIALLY BETTER DUE TO THE DENSE VEGETATION. CURRENTLY THERE IS SIGNIFICANTLY LESS COVER.

THE GROUND DISTURBANCE ASSOCIATED WITH THE VEGETATION CUTTING, RAKING, GRADING AND LEVELING WAS MINIMAL AND DID NOT INTRODUCE ANY SIGNIFICANT AMOUNTS OF SEDIMENT INTO THE POND. THIS IS DUE TO THE MINIMAL LEVELS OF DISTURBANCE AND LEVEL TOPOGRAPHY ADJACENT TO THE POND.

THE MAJORITY OF THE FILLING THAT OCCURRED WITHIN THE DELINEATION LINE WAS HISTORIC IN NATURE, AS EVIDENCED BY THE DENSE COMPOSITION OF THE FILL/SOILS, AND WELL-ESTABLISHED ROOT SYSTEMS FROM HERBACEOUS AND SHRUB VEGETATION. ONLY MINIMAL AMOUNTS OF FILL WERE RECENTLY PLACED.

ALTHOUGH THE REMOVAL OF THE UNDERSTORY VEGETATION ADJACENT TO THE SHORELINE HAS CHANGED THE SHORELINE HABITAT, IN MY OPINION, THESE ACTIVITIES HAVE NOT CAUSED AN ADVERSE IMPACT TO THE POND OR WETLAND FUNCTIONS/VALUES. CURRENTLY, THE HERBACEOUS VEGETATION IS RE-SPROUTING, (FERNS, SKUNK CABBAGE, ETC.)

RECOMMENDATIONS:

I WOULD RECOMMEND THE FOLLOWING:

1.) INSTALL SILT FENCING OR STAKED HAYBALES ALONG THE SHORELINE TO PREVENT ANY POTENTIAL SEDIMENTS FROM ENTERING THE POND UNTIL THE AREA IS STABILIZED AFTER ANY FURTHER PERMITTED GRADING ACTIVITIES.
2.) IMMEDIATELY SEED AND MULCH ANY AREAS THAT ARE DESIRED AS LAWN AREAS.

3.) Along the edge of the Lake not being considered as lawn or open areas, seed with New England Wetmix seed mix to re- establish herbaceous wetland vegetation.
4.) In areas where shrub species are needed, plant a mix of sweet pepperbush, spicebush, winterberry or similar wetland shrub species.

Taking into consideration the condition of the property and the wetlands/shoreline prior to the removal of all of the scrap and garbage, and the fact that the wetlands have been historically filled, I think that the majority of these activities although unpermitted, have improved the overall environmental quality of the area.

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

35 Kara Road — Address

4/21/21 — Date

I inspected at the request of Rick Ives, who received complaints about trucks bring loads of fill. I met Les Philips, who showed me the site. While I was on site, 2 loads of fill arrived, one from Cliff Green + Sons and one from J+B Transportation. Mr. Philips told them to leave and not bring any more fill. Mr. Philips said that the fill was coming from the Big Y in Danielson, where a retaining wall is being demolished. There is some wetlands vegetation at the toe of the fill which is at least 15-20 feet deep. There is also obviously very recent wetland filling at the toe of the slope where many cubic yards of wood chips have been placed. The GIS map confirms fill is in wetlands.

Commission Representative M. Washburn

Owner or Authorized Signature _____

CEASE & DESIST ORDER 4/21/2021

The owner of Map 34 Lot 31 Brown Road is hereby ordered to stop cutting trees, shrubs or any vegetation in wetlands, the 125 foot upland review area to wetlands and the 175 foot upland review area to watercourses. A permit is required for any work removing vegetation or depositing fill including wood chips in these areas.

Contact me immediately at 860-779-3411 ext. 31 and leave your name and a phone number at which you can be reached.

A hearing will be held at 6:00 pm on May 11 at the Brooklyn Inland Wetlands and Watercourses Commission meeting which you can show cause why this order should no remain in effect.

Issued by: Margaret Washburn, Enforcement Officer for the Brooklyn Inland Wetlands and Watercourses Commission

TOWN OF BROOKLYN
INLAND WETLANDS AND WATERCOURSES COMMISSION
69 SOUTH MAIN STREET
BROOKLYN, CT 06234
(860) 779-3411 EXT. 31 AND EXT. 12
M.Washburn@BrooklynCT.org

CEASE AND DESIST ORDER
for Inland Wetlands and Watercourses Violations

CERTIFIED # 9489 0090 0027 6215 8992 68

To: Deborah Love
35 Kara Road
Brooklyn, CT 06234

May 6, 2021

Location of Violation:
35 Kara Road
Brooklyn, CT 06234
Assessors Map 23 Lot 35

Facts

In response to a complaint about trucks of fill entering the site, I inspected and took photographs on 4/21/21. Please refer to the attached photographs. On 4/21/21, I gave a Cease and Desist Order to Les Philips on **your property at 35 Kara Road, Assessors Map 23 Lot 35.** This Order supersedes the Cease and Desist Order dated 4/21/21.

The following activities have been observed to have occurred on your property without an Inland Wetlands and Watercourses Permit: Material has been deposited in the wetlands and Upland Review Area on the subject property. Les Philips indicated that the earthen material was being transported to the site from the removal of a retaining wall at the Danielson Big Y. I also observed that many cubic yards of wood chips had recently been deposited in wetlands. No sediment controls were observed. Your activities, conducted without a permit from the regulatory authority, 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".

The deposition of material within the upland review area and wetlands without a permit constitutes both a "regulated activity" and a "significant impact" under the Regulations and fall within no allowable exception. Therefore, said activities constitute a violation of the Brooklyn Inland Wetlands and Watercourses Regulations because of, at a minimum, the following condition:

a. The "deposition or removal of material which will or may have a substantial effect on the wetland or watercourse".

Order

You are hereby ordered to do the following:

Cease and desist from all site work in the wetlands on the subject property, including depositing material.

Attend the May 11, 2021 meeting of the Brooklyn Inland Wetlands and Watercourses Commission via Webex at 6:00 p.m. In accordance with Section 15.7 of the Regulations, a Show Cause Hearing will be held on this Order on Tuesday, May 11, 2021 via Webex. At this hearing, you will be given an opportunity to be heard and to show cause why this Order should not remain in effect. Depending on the decision of the Agency, a modified version of this Order may be issued. To attend this hearing please follow the instructions on the attached draft meeting agenda.

Refer to the attached Chapter XX of the Brooklyn Town Ordinances, in which the fine for a wetlands violation is shown to be $1,000.00 per day.

Dated at Brooklyn, this 6th day of May 2021.

Margaret Washburn

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

Brooklyn Inland Wetlands Commission
Regular Meeting Agenda
Tuesday, May 11, 2021
Web Ex Meeting
6:00 p.m.

DRAFT

To join this meeting via the web or phone, follow the below instructions:

Web
www.webex.com
On the top right, click Join
Enter meeting information: 126 058 8201
Enter meeting password: gRAPe88439
Click join meeting

Phone
Dial 1-415-655-0001
Enter meeting number 126 058 8201
Enter password: 47273884

Call to Order:

Roll Call:

Seating of Alternates

Public Commentary:

Additions to Agenda:

Approval of Minutes:

1. Regular Meeting Minutes April 13, 2021.

Public Hearings:

Old Business:

1. 041321B Paul Lehto, 40 Almada Drive, Map 21, Lot 6, RA Zone; Proposed 2-lot residential subdivision.

2. 041321C A. Kausch & Sons 53 Proulx Street, Map 41, Lot 85, R-10 Zone; Division of Property, Single Family Homes, Driveway, Minor Grading, Property has public sewer and water.

3. 041321D 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.

4. 060920A Paul R. Lehto, Allen Hill Road, Map 32, Lot 148, RA Zone; Wetlands filled in violation of permit.

New Business:

1. 181 Paradise Drive – Shane O'Connor. Show Cause Hearing for wetlands violation.

2. Brown Road Map 34 Lot 31 - Jared Chviek. Show Cause Hearing for wetlands violation.

3. 35 Kara Road – Deborah Love. Show Cause Hearing for wetlands violation.

4. Request for Jurisdictional Ruling: 4-Lot Subdivision prepared for CNG Holdings, LLC, Day Street, Map 42, Lot 31 and Map 42 Lot 32.

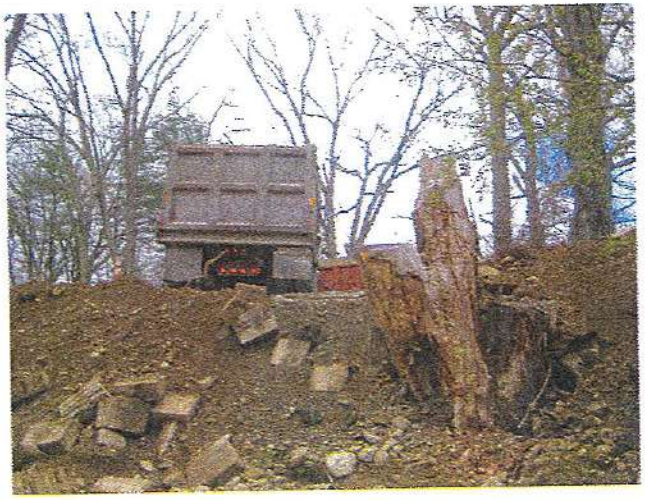
Communications:
1. Wetlands Agent Monthly Report.
2. Budget Update.

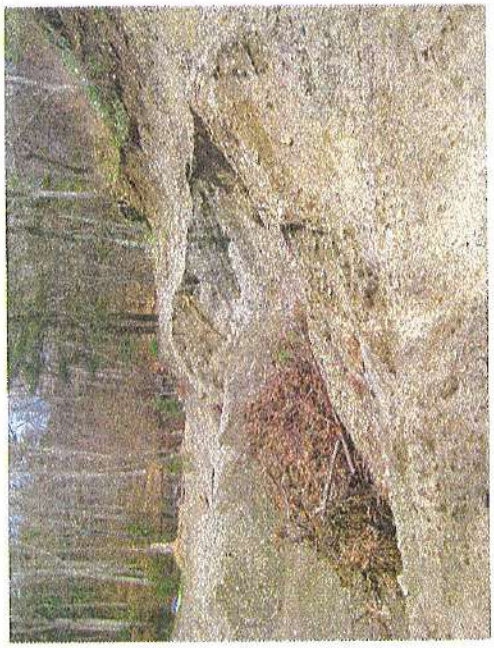
Public Commentary:

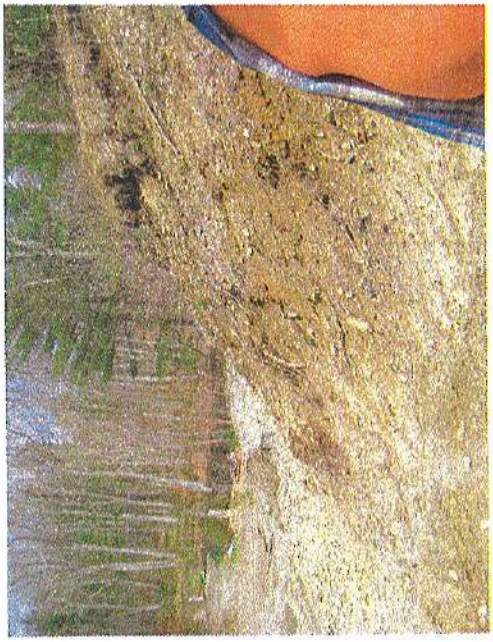
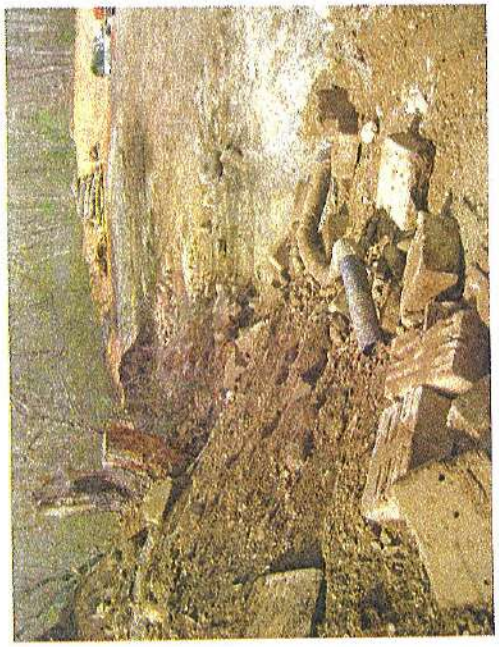
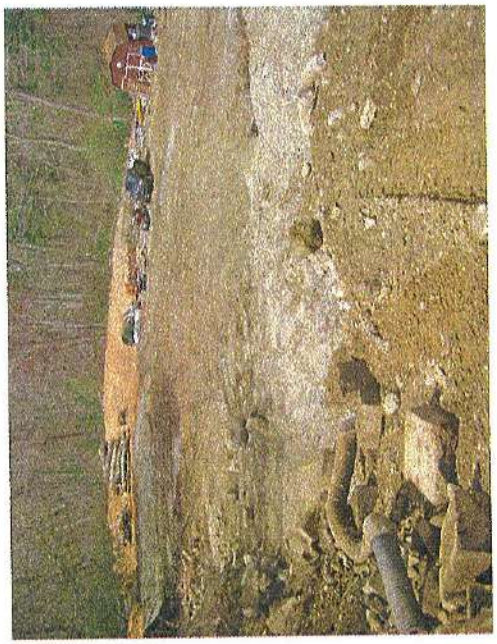
Adjourn:

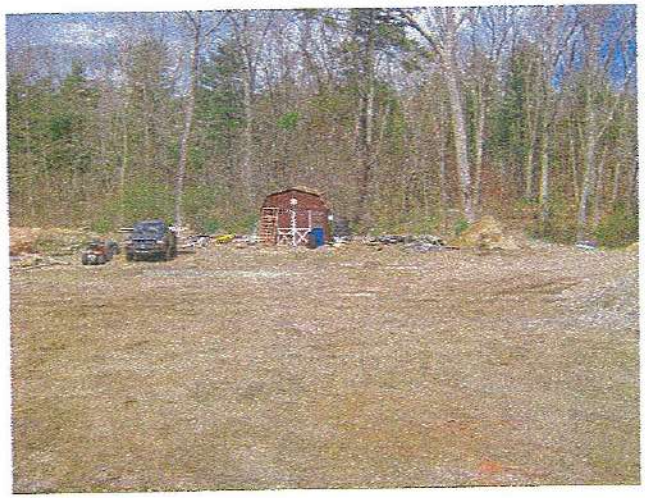
Jeffrey Arends
Chairman

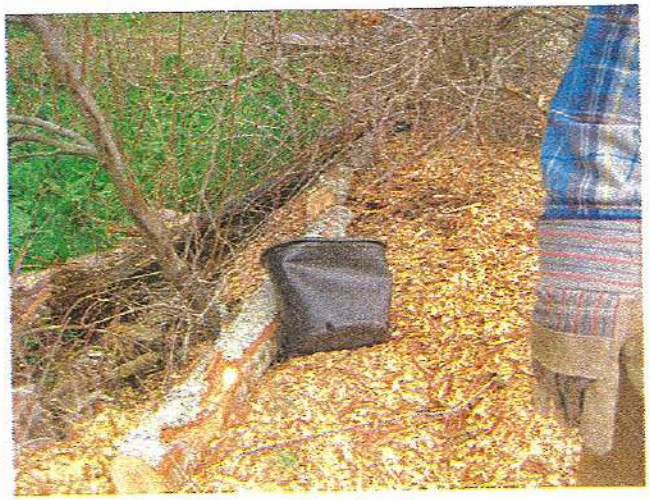
J&B
TRANSPORTATION
860-774-0394
CONSTRUCTION
SUPPORT SERVICES
USDOT 806393

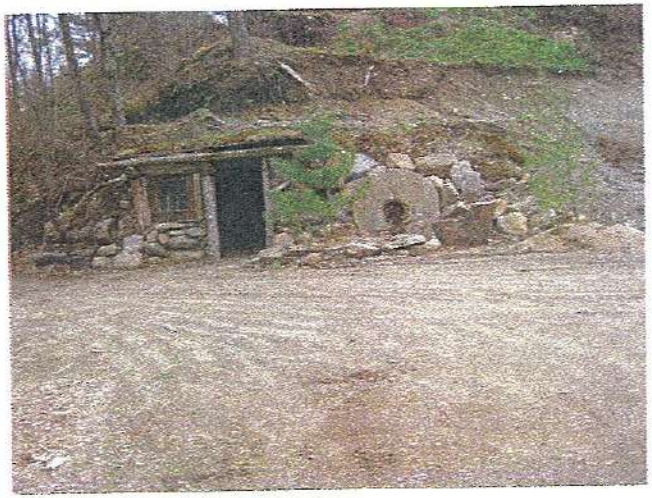










CHAPTER XX FEES FOR LAND USE APPLICATIONS

20-1 ESTABLISHING LAND USE APPLICATION FEES.

(Prior ordinance history includes portions of Ordinances 3/1/88, 8/15/88, 91-2, 04-5 and 06-4)

20-1.1 Purpose.

The purpose of this chapter is to establish a reasonable and equitable Schedule of Fees, pursuant to Section 8-1c and 22a-42a of the Connecticut General Statutes, to defray the administrative costs and any additional costs, including professional consulting fees, incurred by the Planning and Zoning Commission, Inland Wetlands Agency and Zoning Board of Appeals of the Town of Brooklyn (each a "Land Use Agency") for the processing and subsequent monitoring of Land Use applications. (Ord. 5/3/10)

20-1.2 Definitions.

Land Use Application shall mean an application for (1) any permit(s) or approval(s) required by any Land Use Agency regulations for the use of any land, building or structure; (2) proposed amendments to such regulations or the zoning map; (3) a request for a zoning variance; (4) an appeal of a decision of the Zoning Enforcement Officer or (5) a certificate of location approval and or appropriateness pursuant to Section 14-67 and/or Section 14-321 of the Connecticut General Statutes, submitted by any person, organization or corporation (the applicant).

Staff shall mean any employee or appointee of the Town of Brooklyn or employees of the Northeast Connecticut Council of Governments "NECCOG" who, as part of his or her duties, render advice or assistance to any land use agency. Planning Staff shall be the Zoning Enforcement Officer, Town Planner or employees of NECCOG.
(Ord. 5/3/10)

20-1.3 Determination of Fees Charged for Land Use Applications.

a. *Base Fees.* The base fees established hereby are based on a reasonable estimate of the direct and indirect costs for time spent by staff in reviewing and evaluating each type of land use application and, except as noted, the cost of any public hearing. The base fee plus the estimated costs for advertising and required legal notices shall be paid at the time the land use application is filed.

b. *Additional Fees.*

1. In addition to the base fees set forth herein, a Land Use Agency may require the applicant to pay an "additional fee" to defray other costs and expenses incurred by the Land Use Agency. Such additional fee shall be assessed to the applicant when the Planning Staff and/or the Land Use Agency determines that there is a need for the assistance of one or more third party consultants for review, evaluation or processing the land use application (consultation services). Consultants may be engaged to render engineering, architectural, environmental and planning services including traffic studies. Consultation services may include, but not be limited to, consultation with Town staff or the Town Attorney, discussions with the applicant or its agents, rendering such information and research that the Land Use Agency may request, the preparation of written findings and recommendations, written or oral testimony at any public hearing and post-approval inspections to ascertain that all terms and conditions of any permit have been met.

2. The additional fee shall be equal to the reasonable cost incurred by the Land Use Agency for such consultation services.

3. Upon the determination by the Town staff and/or Land Use Agency that consultation services are necessary, the Town Staff shall provide to the Land Use Agency, for its approval, a reasonable estimate of the cost based on the nature and the extent of the consultation services deemed necessary.

Such determination shall be made as soon as practicable after the receipt (filing) of the land use application by the Land Use Agency and, upon approval by the Land Use Agency, the applicant shall be billed an additional fee in an amount equal to one hundred twenty-five (125%) percent of such estimate. Such additional fee shall be due and payable ten (10) days after receipt.

4. Upon receipt of an additional fee from the applicant, the Land Use Agency shall create an application specific account and shall document the amount of the additional fee and all payments made for consultation services. The Land Use Agency shall render periodic accounting to the applicant. Any balance remaining after the land use application has been acted upon shall be refunded to the applicant, provided there has been a determination by the Staff that all terms and conditions of the permit have been met.

5. Upon the failure of the applicant to pay such additional fee when due, the land use application shall be deemed to be incomplete and may be denied by the Land Use Agency for that reason with or without prejudice. No land use application shall be approved until the base fee, the additional fee, if any, and costs of advertising and legal notices have been paid in full.

c. No fees shall be required for any land use application submitted by the Town of Brooklyn or any of its municipal agencies.
(Ord. 5/3/10)

20-1.4 Effective Date; Validity.

In accordance with Connecticut General Statutes Section 8-1c, upon its effective date the fee structure set forth in this chapter shall supersede any fee schedule adopted by any Land Use Agency (this schedule was adopted May 3, 2010). If any provision or fee imposed by this chapter is, for any reason, found to be invalid by a court of competent jurisdiction, such invalidation shall not affect the validity of the remaining portions of this chapter and the fees imposed. (Ord. 5/3/10)

20-1.5 Amendment of Schedule.

The Board of Selectmen, acting pursuant to the provisions of Connecticut General Statutes Section 7-157(a), may, by ordinance, amend the Schedule of Base Fees from time to time after consultation with the Land Use Agency(ies). (Ord. 5/3/10)

20-1.6 Fee Schedule.

Base Land Use Application Fees

ZONING FEES

Text Amendment to Regulations	$250.00
Zoning Map Change	$250.00
Home Occupation	$50.00
Special Permit	$100.00 plus site plan review
Site Plan Review	
2,500 sq. ft. or less	$300.00
Over 2,500 sq. ft.	$300.00 plus $15.00 per each additional 1,000 sq. ft.
Site Plan Review (multi-family/active adult or elderly)	$300.00 plus $20.00 per unit
Amendment to Site Plan After Submission	$150.00
Special Permit (Sand and Gravel)	$250.00 +
< 1,000 cu. yds.	$200.00
1,000 to 20,000 cu. yds.	$300.00
21,000 to 50,000 cu. yds.	$750.00
51,000 to 100,000 cu. yds.	$2,500.00
> 100,000 cu. yds.	$5,000.00
Annual Sand and Gravel Renewal	$100.00

ZONING PERMITS

New Residential Dwelling	$200.00
Residential Accessory Uses/Additions	$50.00
Addition/Modification of a Nonresidential Building	$75.00
New Commercial Building	$250.00
Change of Use in Existing Commercial Building	$75.00
Sign Permit	$20.00

SUBDIVISION APPROVAL

Basic Application	$250.00
Subdivision Plan Review	$250.00 per lot
Engineering Review for New Road(s) and Drainage	*
Inspection and Supervision of Road Construction and Utilities	*
Text Amendment to Subdivision Regulations	$250.00

ZONING BOARD OF APPEALS

All Applications	$250.00

INLAND WETLANDS APPLICATION FEES

Residential (Single Lot)	$150.00
Subdivision Application	$150.00 plus $150.00 per lot in the regulated area
Commercial/Industrial	$200.00
Additional fee based on total impervious surface included in commercial/industrial application	
< 20,000 sq. ft.	$400.00
20,001–50,000 sq. ft.	$800.00
> 50,000 sq. ft.	$1,200.00
Additional Fee for Significant Activity Requiring Public Hearing	$250.00

*Included in Plan Review Fee but may be subject to the payment of additional fees as set forth in this chapter.

All fees payable pursuant to this chapter are nonrefundable.

In addition to any other remedies permitted by law, any land use application submitted after work has started on a project shall be subject to a surcharge of $500.00.

In addition to the fees set forth above payable to the Town of Brooklyn, each application is subject to an additional charge payable to the State of Connecticut, which, as of the effective date of this chapter is $60.00. (Ord. 5/3/10; Ord. 11/2/11)

20-2 CITATION PROCEDURES AND FINES FOR ZONING AND WETLANDS VIOLATIONS.

20-2.1 Issuance of Citations; Schedule of Fines.

The Brooklyn Land Use Officer is authorized to issue citations for violations of the Zoning Regulations and the Wetlands Regulations of the Town of Brooklyn to the extent and manner provided by this section and the Connecticut General Statutes 7-152c. Any such citation may be served either by hand or by certified mail, return receipt requested, to the person named in such citation. If the person(s) named in the citation sent by

certified mail refuses to accept such mail, the citation may be sent by regular United States mail. The Land Use Officer shall file and retain an original or certified copy of the citation, as served.

a. Citations may be issued for those types of zoning and wetlands violations specified in paragraph b. below.

b. The fine for each citation shall be in accordance with this schedule:

ZONING REGULATIONS

Nature of Violation	**Amount of Fine**
Construction of any building without Zoning approval	$150.00
Alteration of any building without Zoning approval	$100.00
Conducting an unauthorized use	$150.00
Illegal Sign	$100.00
Building beyond foundation without prior Foundation as-built or erosion control approval	$150.00
Failure to comply with an approved Site Plan, Special Permit, Subdivision or Re-subdivision including any conditions of approval	$150.00
Any other violation of the Zoning Regulations	$100.00
INLAND WETLAND REGULATIONS	
For each violation	$1,000.00

*In the case of a continuing violation, each day's continuation of the violation shall be deemed a separate and distinct violation.
(Ord. 8/1/13)

20-2.2 Citation Hearing Officers.

The Chief Executive Officer shall appoint one or more Citation Hearing Officers, other than Police Officers or employees or persons who issue citations, to conduct the hearings authorized by this section. (Ord. No. 06-3 § 3)

20-2.3 Notice.

At any time within twelve (12) months from the expiration of the final period for the uncontested payment of fines, penalties, costs or fees for any citation issued under any ordinance adopted pursuant to section 7-148 or section 22a-226d, for an alleged violation thereof, shall send notice to the person cited:

a. Of the allegations against him and the amount of the fines, penalties, costs or fees due;

b. That he may contest his liability before a Citation Hearing Officer by delivering in person or by mail written notice within ten (10) days of the date thereof;

c. That if he does not demand such hearing, an assessment and judgment shall be entered against him; and

d. That such judgment may issue without further notice.
(Ord. No. 06-3 § 4)

20-2.4 Liability; Payment of Fines; Costs.

If the person who is sent notice pursuant to subsection 20-2.3 wishes to admit liability for any alleged violation, he may, without requesting a hearing, pay the full amount of the fines, penalties, costs or fees

admitted to in person or by mail to the Land Use Officer. Such payment shall be inadmissible in any proceeding, civil or criminal, to establish the conduct of such person or other person making the payment. Any person who does not deliver or mail written demand for a hearing within ten (10) days of the date of the first notice provided for in subsection 20-2.3 shall be deemed to have admitted liability, and the Land Use Officer shall certify such person's failure to respond to the Hearing Officer. The Hearing Officer shall thereupon enter and assess the fines, penalties, costs or fees provided for by the applicable ordinances and shall follow the procedures set forth in subsection 20-2.5. (Ord. No. 06-3 § 5)

20-2.5 Hearing.

Any person who requests a hearing shall be given written notice of the date, time and place for the hearing. Such hearing shall be held not less than fifteen (15) days not more than thirty (30) days from the date of the mailing of the notice, provided the Hearing Officer shall grant upon good cause shown any reasonable request by any interested party for postponement or continuance. An original certified copy of the initial notice of violation issued by the Land Use Officer or Police Officer shall be filed and retained by the Town of Brooklyn, and shall be deemed to be a business record within the scope of CGS 52-180 and evidence of the facts contained therein. The presence of the Land Use Officer or Police Officer shall be required at the hearing if such person so requests. A person wishing to contest his liability shall appear at the hearing and may present evidence in his behalf. The Land Use Officer may present evidence on behalf of the Town of Brooklyn. If such person fails to appear, the Hearing Officer may enter an assessment by default against him upon a finding of proper notice and liability under the applicable statutes or ordinances. The Hearing Officer may accept from such person copies of Police reports, investigatory and citation reports, and other official documents by mail and may determine thereby that the appearance of such person is unnecessary. The Hearing Officer shall conduct the hearing in the order and form and with such methods of proof, as he deems fair and appropriate. The rules regarding the admissibility of evidence shall not be strictly applied, but all testimony shall be given under oath or affirmation. The Hearing Officer shall announce his decision at the end of the hearing. If he determines that the person is not liable, he shall dismiss the matter and enter his determination in writing accordingly. If he determines that the person is liable for the violation, he shall forthwith enter and assess the fines, penalties, costs or fees against such person as provided by the applicable ordinances of the Town of Brooklyn. (Ord. No. 06-3 § 6)

20-2.6 Notice of Assessment Which is Unpaid.

If such assessment is not paid on the date of its entry, the hearing officer shall send by first class mail a notice of assessment to the person found liable and shall file, not less than thirty (30) days nor more than twelve (12) months after such mailing, a certified copy of the notice of assessment with the Clerk of a Superior Court facility designated by the Chief Court Administrator together with an entry fee of eight ($8.00) dollars. The certified copy of notice of assessment shall constitute a record of assessment. Within such twelve-month period, assessments against the same person may be accrued and filed as one record of assessment. The Clerk shall enter judgment, in the amount of such record of assessment and court costs of eight ($8.00) dollars, against such person in favor of the Town of Brooklyn. Notwithstanding any provision of the General Statutes, the Hearing Officer's assessment, when so entered as a judgment, shall have the effect of a civil money judgment and a levy of execution on such judgment may issue without further notice to such person. (Ord. No. 06-3 § 7)

20-2.7 Appeal.

A person against whom an assessment has been made pursuant to this section is entitled to judicial review by way of appeal. An appeal shall be instituted within thirty (30) days of the mailing of the notice of such assessment by filing a petition to reopen assessment, together with an entry fee in an amount equal to the entry fee for small claims case pursuant to Connecticut General Statutes (Revision of 1958) 52-259, at a Superior Court facility designated by the Chief Court Administrator, which shall entitle such person to a hearing in accordance with the rules of the Judges of the Supreme Court. (Ord. No. 06-3 § 8)

20.3 PUBLIC IMPROVEMENT SPECIFICATIONS.

a. It is hereby found that rapid growth and development within the Town of Brooklyn are placing unprecedented strain upon Town roads and appurtenant drainage systems, culverts, and catch-basins.

b. To alleviate that siltation, and as empowered by Section 7-148 (c) of the General Statutes, the Board of Selectmen are hereby authorized to develop such regulations as they may deem appropriate to carry out the following purposes:

1. To provide the proper alignment, width, and grades and pavements of existing Town roads serving as a right of way to any proposed subdivision, to ensure that such existing Town roads remain safe and continue to conform to the plan of development of the Town;

2. To provide adequate and sufficient storm drainage systems for carrying off increased storm drainage created by any proposed subdivision and associated access road improvements, whether such additional drainage would impact upon existing Town improvements or private lands;

3. To provide that adequate and sufficient culverts, manholes, and catch-basins be installed to carry run-off water from the road surface and to divert road water from the proposed subdivision beneath or around existing roads without causing significant increases in erosion or sedimentation.

c. Compliance with the regulations adopted by the Board of Selectmen shall be a condition precedent to any application for subdivision of property within the Town of Brooklyn. Failure to comply shall be adequate cause for denial of any such application.

If any portion of this section is deemed by a court of competent jurisdiction to be impermissible, its remaining sections shall continue to be valid and enforceable.
(Ord. 6/28/89 § 1)

CHAPTER XX FEES FOR LAND USE APPLICATIONS

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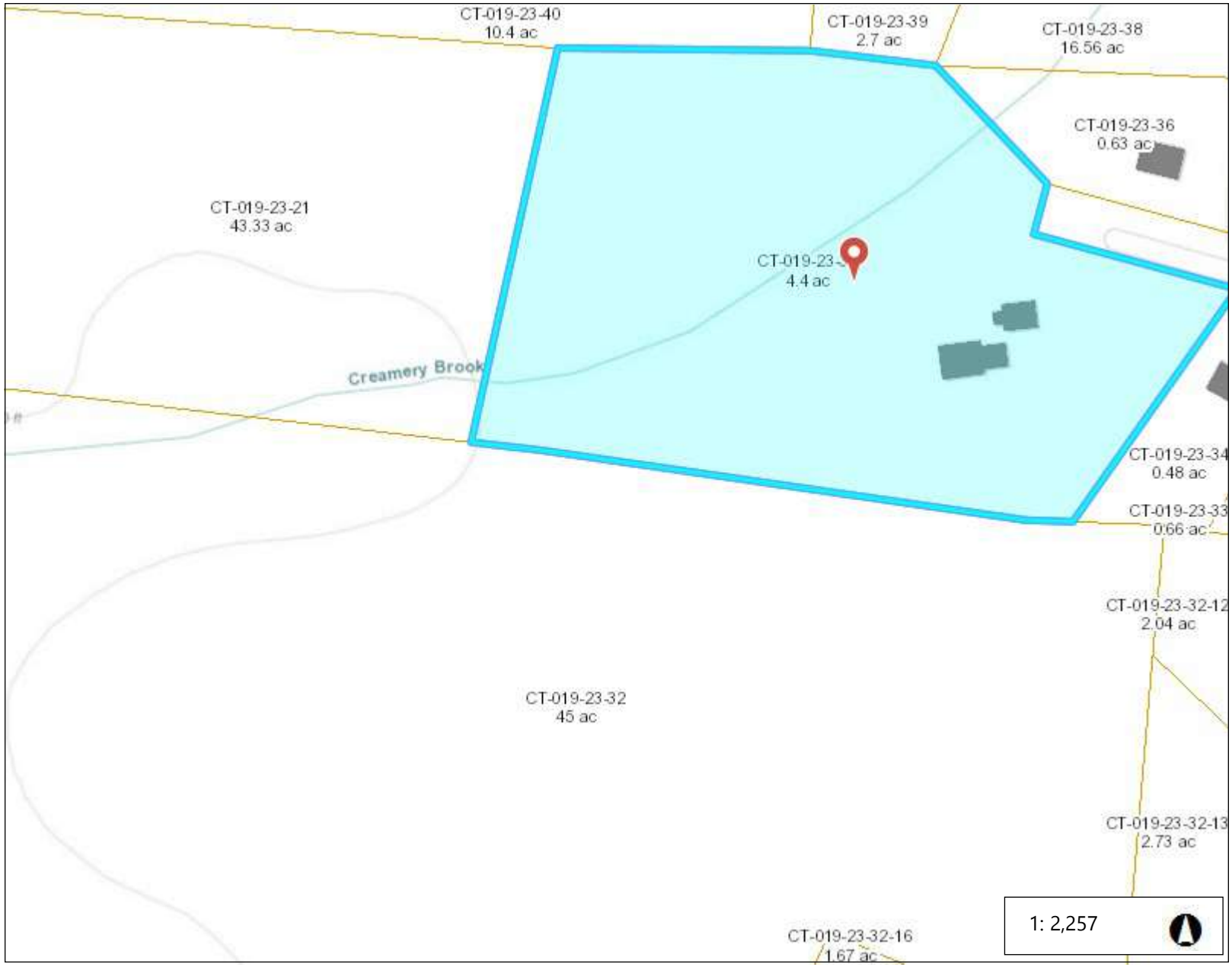
Neccog GIS Site



Legend

- Town
- Buildings 2012
- Parcels

Notes

35 Kara Road showing Creamery Brook

0.1 0 0.04 0.1 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere

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THIS MAP IS NOT TO BE USED FOR NAVIGATION

neccog

Neccog GIS Site

Legend

- Town
- Buildings 2012
- Parcels
- Wetlands
  - Alluvial and Floodplain Soils
  - Poorly Drained and Very Poorly Dra
- Rivers and Streams
- Lakes and Ponds

0.1 0 0.04 0.1 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere

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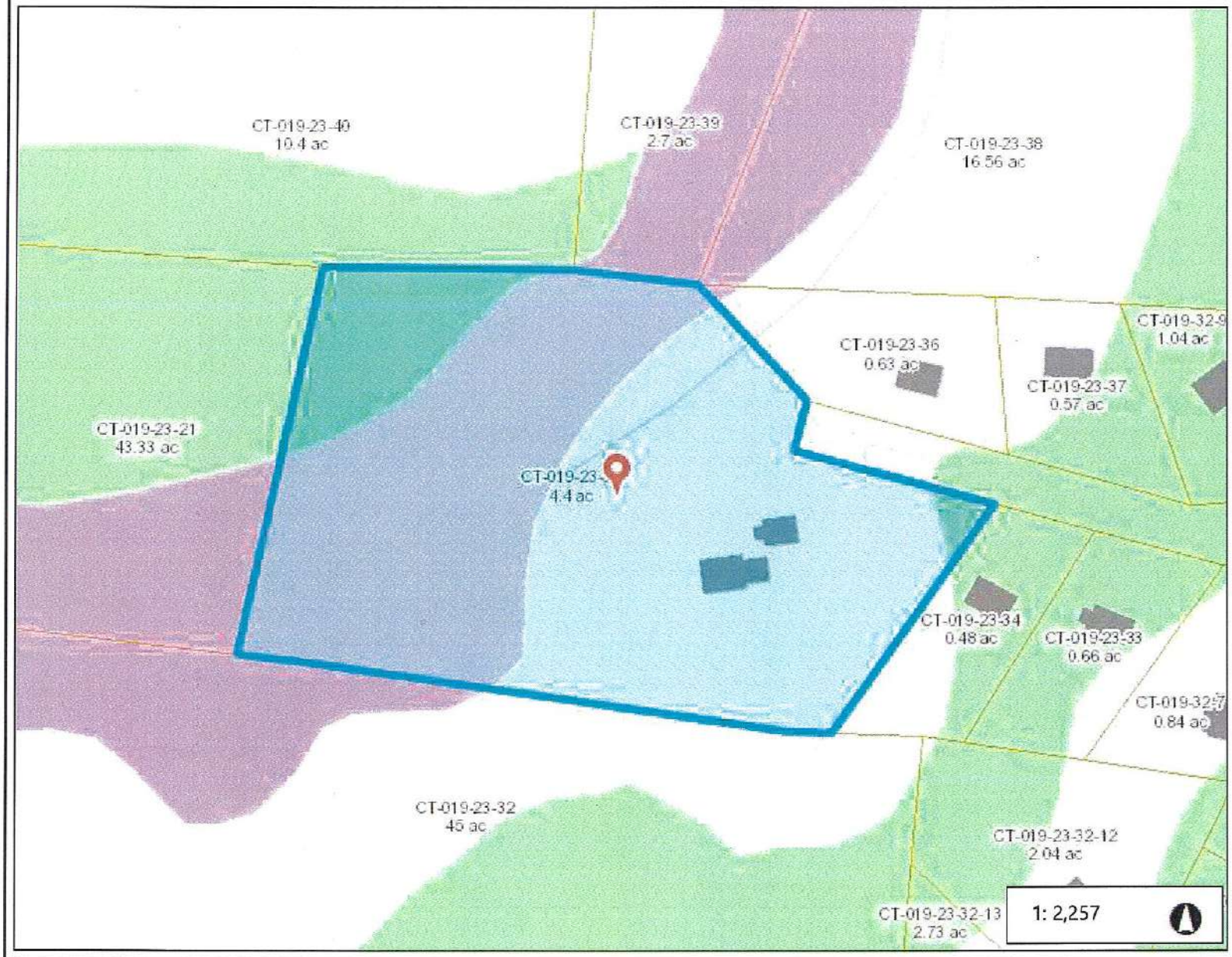
Notes

35 Kara Road aerial map showing Creamery Brook

neccog

Neccog GIS Site



Legend

- Town
- Buildings 2012
- Parcels
- Wetlands
  - Alluvial and Floodplain Soils
  - Poorly Drained and Very Poorly Dra

Notes

35 Kara Road showing wetlands

0.1 0 0.04 0.1 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere

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Google Earth Map
showing wetlands soils
Legend
35 Kara Rd
Alluvial and Floodplain Soils
CT600
Feature 1
IND
NB
Poorly Drained and Very Poorly Drained Soils
R-10
R-30
RB
VC
Filled wetlands
35 Kara Rd
Google Earth
© 2021 Google
300 ft
N

Inland Wetlands Agent's Report

August 10, 2021

<u>Public Hearings</u>

071321A Pomfret Landing Road/Church Street – Andrew Kausch.

Date submitted: 7/13/21.

Date of receipt: 7/13/21.

Date Public Hearing opens: 8/10/21.

From the IWWC Regulations: "The hearing shall be completed within thirty-five (35) days of its commencement."

Deadline to close the public hearing if no extensions are granted: 9/14/21 (Date hearing opened: 8/10/21 plus 35 days = 9/14/21).

Deadline to close the public hearing if maximum (65 day) extensions are granted: 11/18/21 (9/14/21 deadline to close public hearing plus 65 days =11/18/21).

At the 7/13/21 IWWC meeting, I was directed by an IWWC member, not the chairman, to copy "everything" from the 041321D file, Mr. Andrew Kausch's previous application for Pomfret Landing Road/Church Street, which was withdrawn on 7/13/21; I was directed by the same IWWC member to use "everything" from the 041321D file to make the "new" file for application number 071321A, to be received on 7/13/21.

I reached out to Town Counsel because I was uncomfortable assembling a new application for Mr. Kausch and Mr. Paul Archer. I didn't want to include something from the withdrawn application that they didn't want in the new application, nor did I want to accidentally omit something in the withdrawn application that they do want in the new application.

Peter Alter sent the following in part, in an e-mail on 7/15:

".....the applicant should determine what of the old filing should be incorporated into the new file, you do not have the authority to act on behalf of an applicant. You should make the entire file available to the applicant for the applicant to determine what of the old application can be applicable to the new one.

…… Once the applicant and owner have reviewed the materials and indicated what of the old materials are to be included in the new application, you can then treat the new application as just that, a new application.

….. the applicant should keep control of its application.

…… I suggest you reach out to the applicant or Mr. Archer, suggest that you want to cooperate as ……. directed but that you do not want to make a decision as to what is to be included in the "new" application and that you would appreciate written communication from the applicant or its professionals as to what is to be included from the prior application."

In accordance with Peter Alter's recommendation, I contacted Mr. Kausch and Mr. Archer; they met with me in my office and chose the documents from the withdrawn application that they wanted to be in the new application. They subsequently submitted additional information to also be included in the new application. All materials to be included were verified by Paul Archer on 8/5/21.

NECCOG review engineer's unaddressed comments:

"The revised note on Sheet 2 of 4 leaves out the mention of topsoil depth. Nevertheless, topsoil depths are noted along the proposed driveway where the test pits were dug and remain the same as noted in the previously submitted drawing. Furthermore, the term "seasonal high groundwater" has been incorporated into the former note, most likely due to observing mottles. Accordingly, I recommend that driveway construction be carefully inspected concurrently by the Applicant's engineer and a member of town staff, especially where wetland crossings occur with variable depths (0" - 16") to seasonal high groundwater levels, to ensure that the engineer's driveway design is adhered to and minimize the impact this could have on the long-term functionality of the driveway."

"Even though USDA NRCS soils types with boundaries are included in the wetlands report, they should also be included on the project plans."

"An overall plan showing the "new" lot lines should be included in the plan set. As it is presented now, it is difficult to see how the proposed subdivision relates to the existing lot configurations."

Old Business

071321A Pomfret Landing Road/Church Street – Andrew Kausch.

181 Paradise Drive – Shane O'Connor. Show Cause Hearing for wetlands violation.

At the last meeting, IWWC members agreed to do individual drive-by site inspection from the road since Mr. Shane O'Connor failed to appear at the 7/13 meeting and was therefor unable to grant permission for a site walk.

Mr. O'Connor came to my office on 7/27. He signed a document giving permission for IWWC members to do a site walk on his property. He also submitted the plan that Chairman Arends had requested at the May 11 meeting. From the 5/11/21 minutes:

> Chairman Arends asks Mr. O'Connor if he has any plans for the property, to have them drawn out and bring in with an application. Mr. O'Connor understands.
>
> Chairman Arends asked Mr. O'Connor to have the wetlands delineated so they know the amount of any disturbance. Ms. Washburn can help Mr. O'Connor with the name of a soil scientist.

Mr. Joseph Theroux's wetlands delineation report dated 5/24/21 addressed wetlands impacts.

35 Kara Road – Deborah Love. Show Cause Hearing for wetlands violation.

IWWC Members Jason Burgess, Richard Oliverson, and Demian Sorrentino attended a site walk on 7/20/21 with Mr. Lester Philips. The site walk notes:

"Brooklyn IW&WC Site Walk
Date: 7/20/21 Scheduled Time: 5:15PM
Location: 35 Kara Road Owner: Deborah S. Love
Attendees: Demian Sorrentino, Jason Burgess, Richard Oliverson, Lester Philips
It is determined that no quorum is present.
Commissioners gathered in the driveway and met the owner's husband Lester Phillips. Site walk started at 5:20PM. Commissioners viewed the recently placed fill material at the top of the hill and the embankment down towards the southerly abutter's property. Mr. Philips guided commissioners down the hill to the flat area adjacent Creamery Brook, commissioners observed the logs on the ground and

wood chips on the berm. Commissioners then walked around the westerly pond, then back between the ponds where they observed a portion of the gravel path had had been eroded. Commissioners observed the driveway at the end of Kara drive that is covered in concrete. Commissioners walked back to the flat area adjacent Creamery Brook and observed the location where surface water drains from this flat area into the riparian wetlands, then walked back up the bank to the parking area.
Site walk ended at 5:38PM.
Respectfully Submitted – Demian A. Sorrentino, IW&WC Member."

95 Bunny Lane – David Jarvis. An Agent Approval was issued on 7/29/21.

TOWN OF BROOKLYN

Expenditure Report

From Date: 7/1/2021 To Date: 7/31/2021

Fiscal Year: 2020 - 2021

Account Number	Description	Adj. Budget	Current	YTD	Balance	Encumbrance	Budget Bal	%Bud
1005.41.4163.51900	Inland Wetlands-Wages-Recording Secretary	$1,200.00	$0.00	$800.00	$400.00	$0.00	$400.00	33.33%
1005.41.4163.53020	Inland Wetlands-Legal Fees	$2,500.00	$0.00	$3,478.90	($978.90)	$0.00	($978.90)	-39.16%
1005.41.4163.53400	Inland Wetlands-Professional Services	$500.00	$0.00	$71.32	$428.68	$0.00	$428.68	85.74%
1005.41.4163.55400	Inland Wetlands-Advertising & Legal Notices	$500.00	$0.00	$573.30	($73.30)	$117.60	($190.90)	-38.18%
1005.41.4163.55500	Inland Wetlands-Printing & Publications	$100.00	$0.00	$0.00	$100.00	$0.00	$100.00	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:		**$4,800.00**	**$0.00**	**$4,923.52**	**($123.52)**	**$117.60**	**($241.12)**	**-5.02%**

End of Report

Margaret Washburn

From: Rich Hawes <rhawes@ewburman.com>
Sent: Monday, August 16, 2021 10:28 AM
To: Margaret Washburn
Cc: Rick Ives
Subject: FW: Brooklyn, Brown Road Property Map 34, Lot 31
Attachments: Brooklyn_Brown Rd_ Map-34_Lot-31_8.16.21.pdf

Good morning Ms. Washburn,
I am writing in regards to the above reference property & I have copied Mr. Ives as some of my observations / questions may be outside the purview of IWWC. I had notice that there was some significant activity there this weekend (per the attached photos) and I wanted to ask if these modifications are in conformance with the IWWC meeting notes of 5/11/21 as well as Town of Brooklyn regulatory requirements and ultimately if they are acceptable to the Town.

Observations:

- Wood fence with metal gates erected, appears to be very close to or on Town property
- Grading & added wood chips in and around the gate / fence structure
- Grading adjacent Town Rd to redirect storm water runoff
- Misc clearing & added boulders
- It appears the location of the entrance is in the same proximity as when the C&D ordered was issued
- Are there permits required for grading / drainage modifications on Town property?

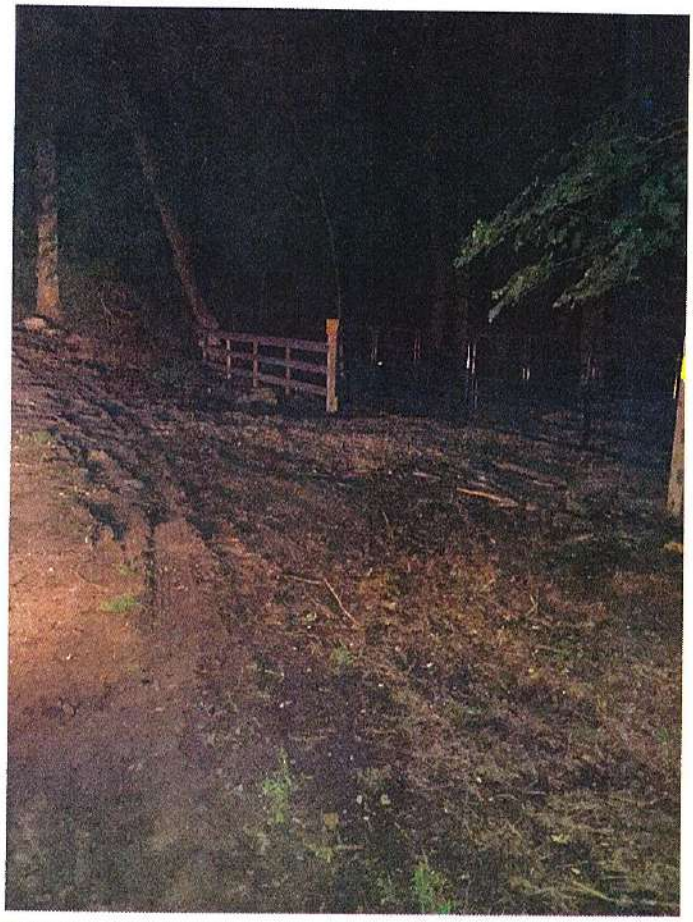
If the property owner has provided some sort of "plan to develop the property" as recommended by the IWWC, would it be possible to forward a copy to me?

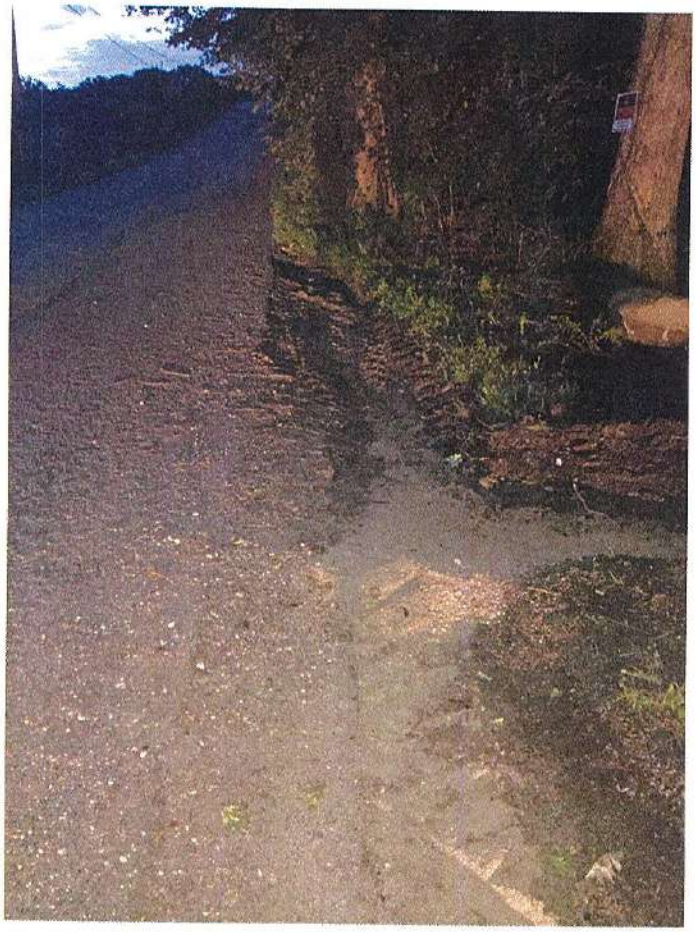
It is my opinion that the property owner is not in compliance with the Town of Brooklyn rules & regulations, but will have to defer to your expertise for final determination

Appreciate your time & please advise, thank you

Richard C. Hawes | Project Manager
E. W. Burman, Inc.
33 Vermont Avenue
Warwick, RI 02888
p. 401.738.5400 f. 401.737.2650 c. 401.255.0985

E W BURMAN
GENERAL CONTRACTORS





Brown Rd, Brooklyn_8/16/21

 from 5/11/21 minutes re: Chviek Brown Rd.

New Business:

1. 181 Paradise Drive – Shane O'Connor. Show Cause Hearing for wetlands violation.

Attorney S. Weiner represents Mr. Shane O'Connor. Attorney Weiner read the notice, spoke with Mr. O'Connor, and also spoke with Ms. Washburn. Mr. O'Connor owns the building and land which is subject to Inland Wetlands. Attorney Weiner recommended to Mr. O'Connor anytime he wishes to do work he should be in contact with Ms. Washburn to see if it requires a wetlands permit. Mr. O'Connor put down some traprock and had some idea to spread loam out. There will be no more trees or scrub cut down until he speaks with Ms. Washburn to see if a permit is required.

Chairman Arends asks Mr. O'Connor if he has any plans for the property, to have them drawn out and bring in with an application. Mr. O'Connor understands.

Ms. Washburn recommends the Commission do a site walk, then regroup and have Mr. O'Connor present at next month's meeting.

Mr. Sorrentino asked the Commission if they feel it prudent to hire soil scientist to see what the activity is within the wetland and upland review area, Ms. Washburn agrees with this. Discussion ensued.

Chairman Arends asked Mr. O'Connor to have the wetlands delineated so they know the amount of any disturbance. Ms. Washburn can help Mr. O'Connor with the name of a soil scientist.

Members discussed setting up a site walk. Members agreed to have the wetlands delineation ready before a site walk is scheduled. Mr. O'Connor has 4 weeks to get the delineation done. Next month's meeting is June 8, 2021. Chairman Arends suggested that Mr. O'Connor notify Ms. Washburn once this is completed so a site walk can be scheduled.

Ms. Washburn is on vacation May 20th through May 31st. Attorney Weiner will be in touch with Ms. Washburn with regards to soil scientist recommendation.

2. Brown Road, Map 34, Lot 31 – Jared Chviek. Show Cause Hearing for wetlands violation.

Jared Chviek, 95 Wauregan Rd, property owner is present at cause hearing. Mr. Chviek is currently renting land in Woodstock for his seven cows and would like to move them to the property on Brown Road as an agricultural use. Mr. Chviek discusses Ms. Washburn's photographs. Mr. Chviek is cleaning up downed debris, chipping it up. There has been no new materials hauled in or foreign materials. He is not looking to build on the property.

Chairman Arends asked Mr. Chviek if he was using the property as an agriculture purpose. Mr. Chviek stated yes sir. Chairman Arends asked if he was cutting down trees? Mr. Chviek stated minimal trees, none yet, mostly brush. Chairman Arends asked him what kind of equipment is he

using? Mr. Chviek stated a chain saw, clippers, putting scrub brush through the chipper. He owns a 33 horse and 24 horse bucket tractor which has not been to the site yet.

Chairman Arends commented that an agricultural use is as of right and you are permitted to do that. If you are getting into a wetlands, the Commission would like to be sure the work is being done correctly. Mr. Chviek stated yes.

Mr. Brindamour asked how large is the parcel? Mr. Chviek stated 27.35 acres.

Mr. Sorrentino stated he does not think it has been delineated yet, but significant portion of property is wetlands per aerial. Discussion ensued.

Mr. Sorrentino stated property owners have right to cut trees and clear vegetation. Chipping and depositing in wetlands is questionable. Cutting trees down and leaving it whole in wetlands is not considered fill. Mr. Chviek asked if he is allowed to put chips in the back of a truck and haul it out. Mr. Sorrentino stated this is okay as long as you do not uproot the tree mass and destroy soil. Mr. Chviek's stated his main reason he bought the property was for the agricultural rights.

Chairman Arends asked Ms. Washburn how this came before the Commission. Ms. Washburn commented a complaint came in from Mrs. Hawes. Ms. Hawes was concerned that Mr. Chviek would make trails for motorized vehicles. Ms. Washburn stated Creamery Brook runs through the property, and most of the property is wet. The access point is in the wetlands. There are uplands on site where an entrance point can be made to establish the pasture. Utilizing the uplands on site to start would be easier and not necessarily a regulated activity. Ms. Washburn would like Mr. Chviek to tell the Commission what his plans are and keep them informed with what he wishes to do to alleviate the concerns with complaints. The Commission is charged with protecting resources. Discussion ensued.

Mr. Chviek has had problems with the neighbor trespassing on his property. Discussion ensued.

Mr. Sorrentino suggests that Mr. Chviek come up with a plan and submit to Ms. Washburn so there is an idea what areas are proposed to be cleared. Mr. Paquin suggests to Mr. Chviek to show what the intent is and advise the Commission. Mr. Paquin would like to lift the cease-and-desist order at this time. Mr. Paquin advises Mr. Chviek as he progresses with the project that he advise the Commission of the plan. Chairman Arends agrees.

Chairman Arends asked that wood chips not be put into wetlands, move them out to upland areas or truck them out. Ms. Washburn stated driving motorized equipment will make a mess. Chairman Arends recommends no big vehicles in the wetlands. Discussion ensued.

A motion was made by Jim Paquin to remove the cease-and-desist order for Brown Road, Map 34, Lot 31-Jared Chviek. Demian Sorrentino seconds this motion. No discussion held. All in favor. The motion passes unanimously.

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

Brown Rd. Map 34 Lot 31 — Address

8/17/21 — Date

I took photographs at the request of James Paquin, IWWC Member.

Chairman Arends on 5/11/21 asked that woodchips not be put into wetlands. He said "Move them out to upland areas or truck them out". Large quantities of wood chips were observed in wetlands today.

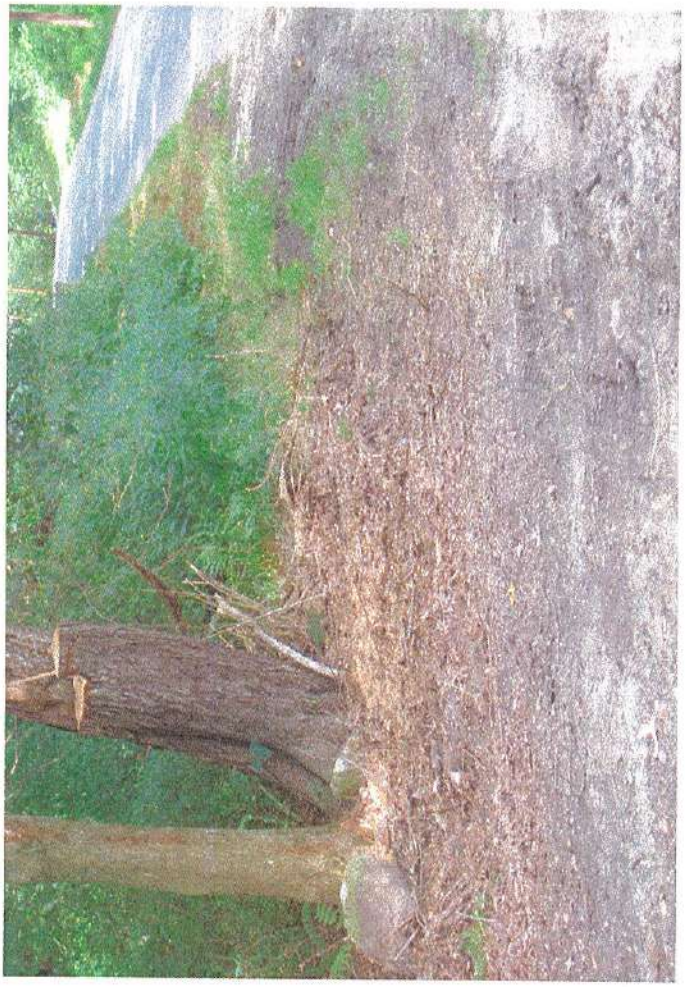
Mr. Sorrentino advised Mr. Chviek on 5/11/21 to submit a plan showing proposed clearing. No plan has been submitted.

Commission Representative M. Washburn

Owner or Authorized Signature _____

SMILE!

SMILE!



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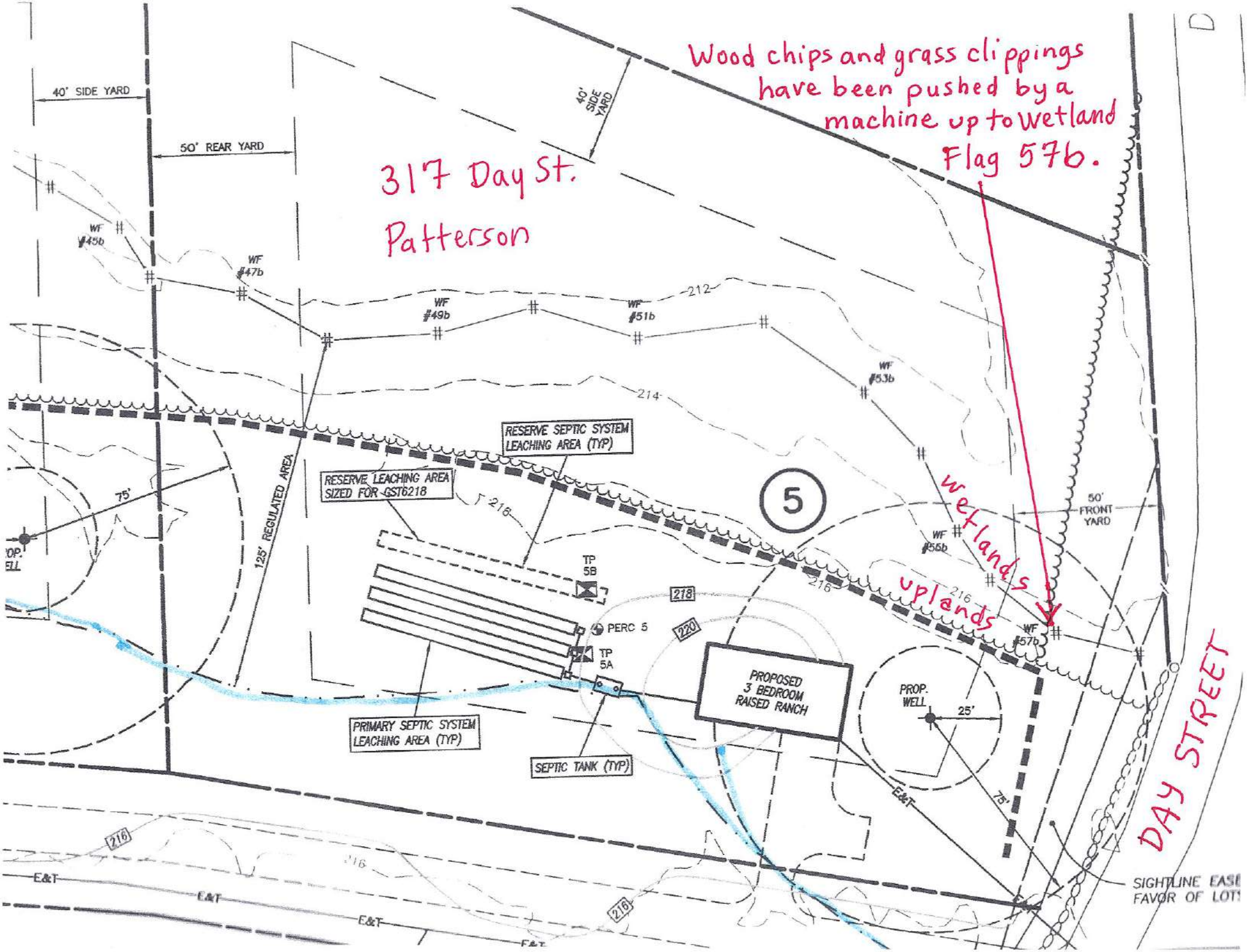

Wood chips and grass clippings have been pushed by a machine up to wetland Flag 57b.
317 Day St.
Patterson
40' SIDE YARD
50' REAR YARD
40' SIDE YARD
WF #45b
WF #47b
WF #49b
WF #51b
WF #53b
WF #56b
WF #57b
212
214
216
218
220
RESERVE SEPTIC SYSTEM LEACHING AREA (TYP)
RESERVE LEACHING AREA SIZED FOR GST6218
125' REGULATED AREA
75'
5
TP 5B
PERC 5
TP 5A
PROPOSED 3 BEDROOM RAISED RANCH
PROP. WELL
25'
75'
50' FRONT YARD
wetlands
uplands
PRIMARY SEPTIC SYSTEM LEACHING AREA (TYP)
SEPTIC TANK (TYP)
E&T
DAY STREET
SIGHTLINE EASE
FAVOR OF LOT

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

317 Day St
Address

8/9/21
Date

Leaving the Day Street 10-Lot Weaver subdivision, I noticed + photographed an area at 317 Day St where material has been pushed into the woods very close to approved wetland flags.

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

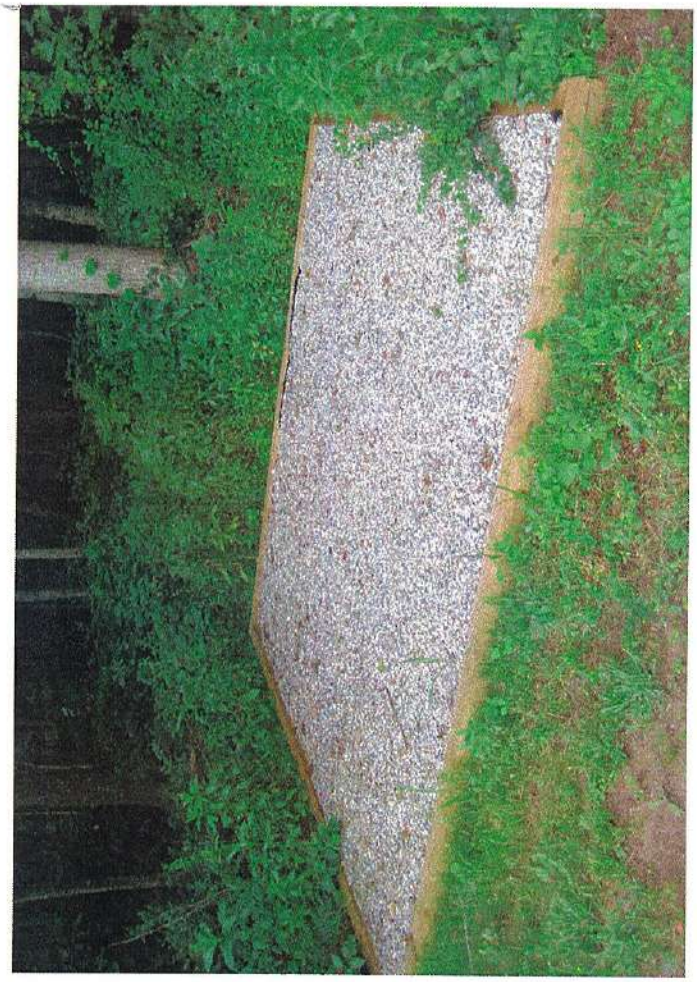
317 Day St
Address

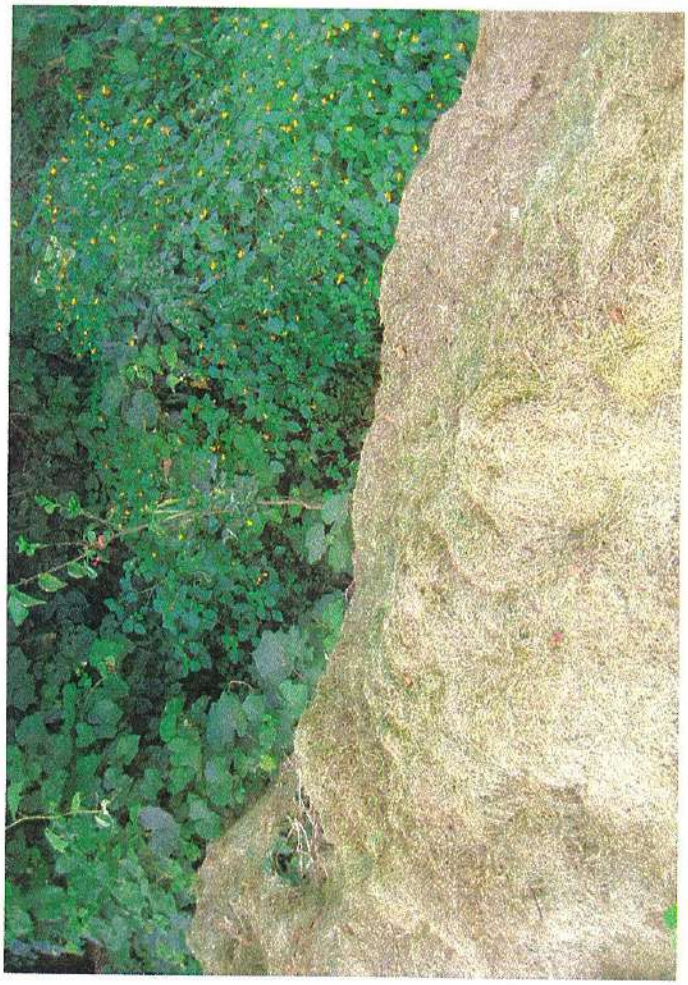
8-17-21
Date

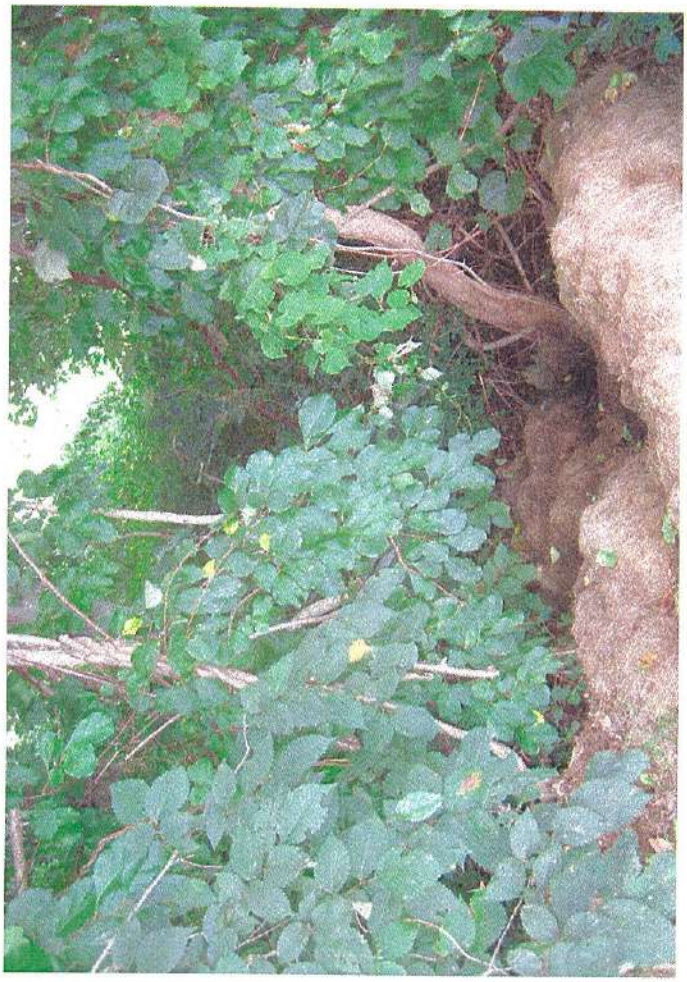
Kenzie Patterson met me. We inspected the northern edge of the lawn. Lawn clippings and wood chips have been pushed to the edge of wetlands shown on the approved plan for the Subdivision built by Jeff Weaver.
Kenzie understands that pushing material into wetlands requires a permit. Pushing material into wetlands without a permit is a violation.
Kenzie agrees to keep her yard waste out of the wetlands.

Commission Representitive M. Washburn

Owner or Authorized Signature Mackenzie Patterson







Inland Wetlands Agent's Report

September 14, 2021

<u>Public Hearings</u>

071321A Pomfret Landing Road/Church Street – Andrew Kausch.

Date submitted: 7/13/21.

Date of receipt: 7/13/21.

Date Public Hearing opens: 9/14/21.

From the IWWC Regulations: "The hearing shall be completed within thirty-five (35) days of its commencement."

Deadline to close the public hearing if no extensions are granted: 9/14/21 (Date hearing opened: 9/14/21 plus 35 days =10/19/21).

Deadline to close the public hearing if maximum (65 day) extensions are granted: 12/23/21 (10/19/21 deadline to close public hearing plus 65 days =12/23/21).

At the 7/13/21 IWWC meeting, I was directed by an IWWC member, not the chairman, to copy "everything" from the 041321D file, Mr. Andrew Kausch's previous application for Pomfret Landing Road/Church Street, which was withdrawn on 7/13/21; I was directed by the same IWWC member to use "everything" from the 041321D file to make the "new" file for application number 071321A, to be received on 7/13/21.

I reached out to Town Counsel because I was uncomfortable assembling a new application for Mr. Kausch and Mr. Paul Archer. I didn't want to include something from the withdrawn application that they didn't want in the new application, nor did I want to accidentally omit something in the withdrawn application that they do want in the new application.

Peter Alter sent the following in part, in an e-mail on 7/15:

".....the applicant should determine what of the old filing should be incorporated into the new file, you do not have the authority to act on behalf of an applicant. You should make the entire file available to the applicant for the applicant to determine what of the old application can be applicable to the new one.

…… Once the applicant and owner have reviewed the materials and indicated what of the old materials are to be included in the new application, you can then treat the new application as just that, a new application.

….. the applicant should keep control of its application.

…… I suggest you reach out to the applicant or Mr. Archer, suggest that you want to cooperate as ……. directed but that you do not want to make a decision as to what is to be included in the "new" application and that you would appreciate written communication from the applicant or its professionals as to what is to be included from the prior application."

In accordance with Peter Alter's recommendation, I contacted Mr. Kausch and Mr. Archer; they met with me in my office and chose the documents from the withdrawn application that they wanted to be in the new application. They subsequently submitted additional information to also be included in the new application. All materials to be included were verified by Paul Archer on 8/5/21.

NECCOG review engineer's unaddressed comments:

"The revised note on Sheet 2 of 4 leaves out the mention of topsoil depth. Nevertheless, topsoil depths are noted along the proposed driveway where the test pits were dug and remain the same as noted in the previously submitted drawing. Furthermore, the term "seasonal high groundwater" has been incorporated into the former note, most likely due to observing mottles. Accordingly, I recommend that driveway construction be carefully inspected concurrently by the Applicant's engineer and a member of town staff, especially where wetland crossings occur with variable depths (0" - 16") to seasonal high groundwater levels, to ensure that the engineer's driveway design is adhered to and minimize the impact this could have on the long-term functionality of the driveway."

"Even though USDA NRCS soils types with boundaries are included in the wetlands report, they should also be included on the project plans."

"An overall plan showing the "new" lot lines should be included in the plan set. As it is presented now, it is difficult to see how the proposed subdivision relates to the existing lot configurations."

Old Business

071321A Pomfret Landing Road/Church Street – Andrew Kausch.

181 Paradise Drive – Shane O'Connor. Show Cause Hearing for wetlands violation.

At the last meeting, IWWC members agreed to do individual drive-by site inspection from the road since Mr. Shane O'Connor failed to appear at the 7/13 meeting and was therefore unable to grant permission for a site walk.

Mr. O'Connor came to my office on 7/27. He signed a document giving permission for IWWC members to do a site walk on his property. He also submitted the plan that Chairman Arends had requested at the May 11 meeting. From the 5/11/21 minutes:

> Chairman Arends asks Mr. O'Connor if he has any plans for the property, to have them drawn out and bring in with an application. Mr. O'Connor understands.
>
> Chairman Arends asked Mr. O'Connor to have the wetlands delineated so they know the amount of any disturbance. Ms. Washburn can help Mr. O'Connor with the name of a soil scientist.

Mr. Joseph Theroux's wetlands delineation report dated 5/24/21 addressed wetlands impacts.

At this point, the house is being sold to Mr. Ken Demers. Mr. Demers understands that he needs a site plan if he wishes to build an addition or do any other site work. He will hire a surveyor to locate the wetlands flags. He has asked me to do an inspection to remove two hazardous trees, which I have scheduled.

I recommend issuing a closed Order to Remediate.

35 Kara Road – Deborah Love. Show Cause Hearing for wetlands violation.

IWWC Members Jason Burgess, Richard Oliverson, and Demian Sorrentino attended a site walk on 7/20/21 with Mr. Lester Philips. The site walk notes:

"Brooklyn IW&WC Site Walk
Date: 7/20/21 Scheduled Time: 5:15PM
Location: 35 Kara Road Owner: Deborah S. Love

Attendees: Demian Sorrentino, Jason Burgess, Richard Oliverson, Lester Philips
It is determined that no quorum is present.
Commissioners gathered in the driveway and met the owner's husband Lester Phillips. Site walk started at 5:20PM. Commissioners viewed the recently placed fill material at the top of the hill and the embankment down towards the southerly abutter's property. Mr. Philips guided commissioners down the hill to the flat area adjacent Creamery Brook, commissioners observed the logs on the ground and wood chips on the berm. Commissioners then walked around the westerly pond, then back between the ponds where they observed a portion of the gravel path had had been eroded. Commissioners observed the driveway at the end of Kara drive that is covered in concrete. Commissioners walked back to the flat area adjacent Creamery Brook and observed the location where surface water drains from this flat area into the riparian wetlands, then walked back up the bank to the parking area.
Site walk ended at 5:38PM.
Respectfully Submitted – Demian A. Sorrentino, IW&WC Member."

The Commission may wish to ask Mr. Philips whether he intends to move the fill around on the site. What are his intentions regarding the final resting place of the fill?

The Commission may wish to consider 2 options:

The fill appears to be approximately 130 feet from the wetlands associated with Creamery Brook. An after-the fact permit is one option.

If the Commission feels that the fill is stable and poses no threat to the wetlands on site, and there is no plan to spread the fill closer to wetlands, issuing a closed Cease & desist Order is a second option.

95 Bunny Lane – David Jarvis. An Agent Approval was issued on 7/29/21.

Brown Road; Map 34. Lot 31 - Jared Chviek. Complaint.

On 8/16/21, I received an e-mailed complaint about the work being done on site. I forwarded the e-mail to the IWWC members. Jim Paquin responded, and I sent this as a follow-up email:

“I will take some photos today. I also forwarded the email to Tom Rukstela regarding any impacts the work may or may not have on the Town right-of-way. Whether or not the gate is on private property or on Town land is not for me to decide. The grading beside the road is also an issue for Tommy.

Please refer to pages 8 & 9 in the attached minutes from May 11. In the third paragraph from the end of the section on Brown Road on page 9, Demian and you mention that Mr. Chviek should submit something like a plan showing what work is proposed and where it is proposed. Maybe at the 9/14 meeting this can be discussed and the Commission may want to recommend that I send Mr. Chviek a letter requesting whatever the Commission decides is needed.”

317 Day Street – Kenzie Patterson. Wetlands Violation.

Please refer to the inspection report, photos and marked-up site plan in the attachments to the agenda. I am seeking guidance from the IWWC members as to whether you would like me to take the friendly approach and seek voluntary compliance by asking the Pattersons to move their yard waste pile further away from wetlands, which should be relatively easy, or if you want me to issue a Notice of Violation for the record.

Town of Brooklyn

Expenditure Report

From Date: 8/1/2021 To Date: 8/31/2021

Fiscal Year: 2021-2022

☐ 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	$1,200.00	$0.00	$150.00	$1,050.00	$0.00	$1,050.00	87.50%
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	$100.00	$0.00	$0.00	$100.00	$0.00	$100.00	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:	$5,865.00	$0.00	$150.00	$5,715.00	$0.00	$5,715.00	97.44%

End of Report

DRAINAGE NARRATI`VE

3-Lot Subdivision
Church Street, Brooklyn, CT
Prepared for
Kausch & Sons, LLC

April 30, 2021

The existing parcels consist of a total of approximately 27 acres of undeveloped woodlands located to the west of Church Street in Brooklyn Connecticut. There are inland wetlands located in the north and southern parts of the site.

The proposed development consists of 2 residential building lots served by approximately 950 L.F. of new shared driveway access from Church Street. Presently, storm water in the proposed development area drains north to south, exiting the site via the wetlands and eventually discharging to the Quinebaug River to the east.

The shared driveway for the building lots is required to cross existing wetlands in three locations. The crossing locations have been determined to minimize impact to the wetland. The crossing lengths are approximately 50, 75 and 73 feet respectively.

The following determines the size of the drainage culverts required to pass the 25-year storm event with inlet control.

Methodology:
In accordance with the Town of Brooklyn's Public Improvement Specifications, the site's watershed was analyzed using the Rational method for the 25-year storm. The Rational method predicts the peak runoff according to the formula: Q=CiA, where C is a runoff coefficient, i is the rainfall intensity, and A is the sub-catchment area.

Rainfall intensities used in the calculations were taken from the Brooklyn (06-0918) weather station readings accessed via the NOAA Atlas 14 Point Precipitation Frequency website.

DEEP watershed basin boundaries and Connecticut Elevation (Lidar) Data (See SK-1) was used to determine the approximate watershed area contributing to each driveway crossing.

The site consists primarily undeveloped woodlands. A run-off coefficient (C) of 0.2 (Unimproved Surface) was utilized. The Time of Concentration for each catchment was determined using the TR-55 method.

The peak discharge (Q) for the 25-year storm event was calculated as follows:

Peak Volume (Q) = CiA = 0.2 x 6.11 in/hr x Area (acres)

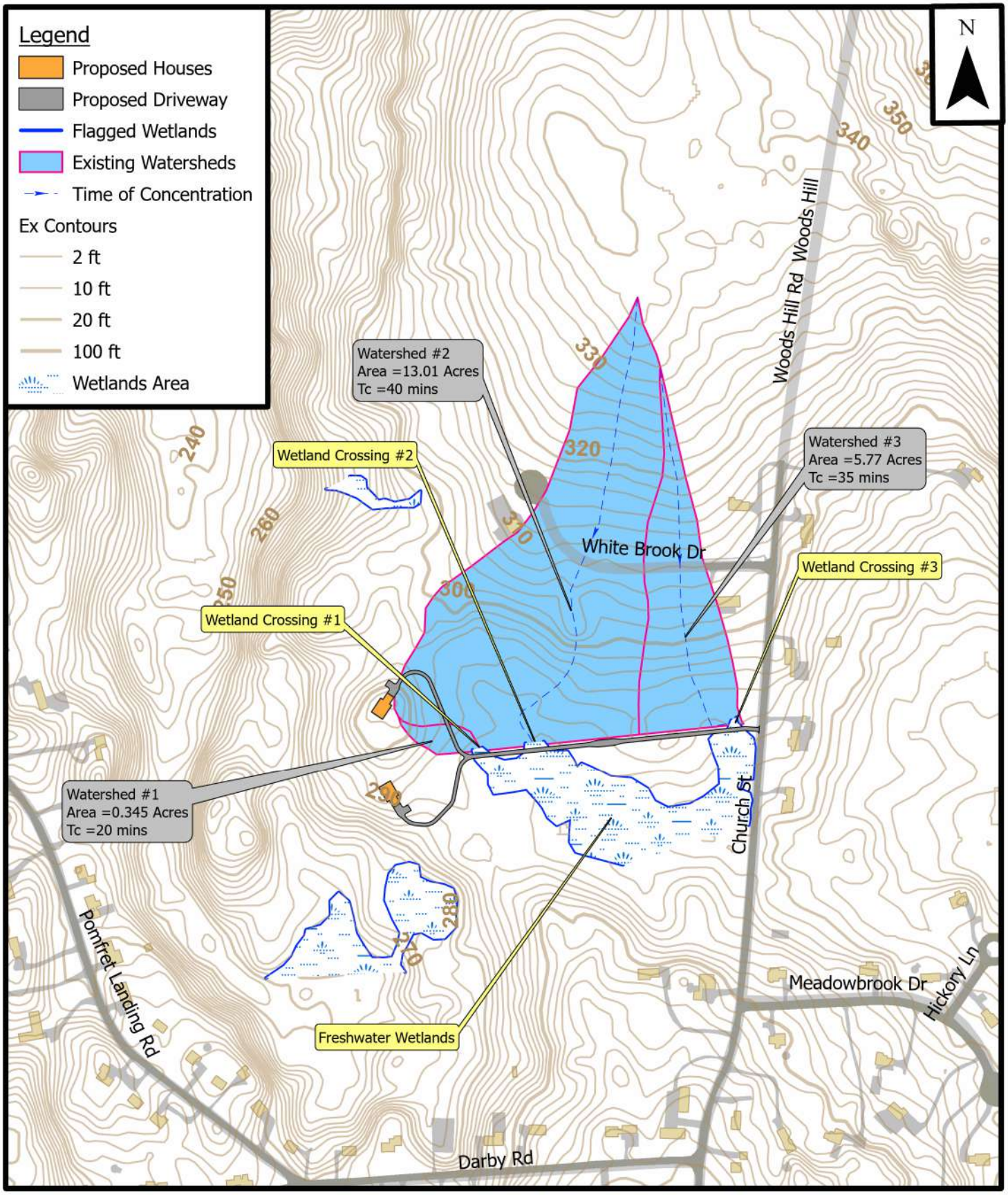
Hydrograph Reports showing peak volume discharge for each wetland crossing are shown in Appendix 1. A summary of the results is shown in the following table.

Location	Watershed Area	Tc (Mins)	Peak 25-yr Volume (cfs)	Culvert Required
Crossing 1	0.34	20	0.4	1 x 15”
Crossing 2	13.01	40	9.7	2 x 15”
Crossing 3	5.77	35	4.6	1 x 15”

Using the above results, analysis of each wetland crossing was performed to determine the size and number of culverts required to pass the peak volume at a grade consistent with the existing wetland.

Hydraflow Express culvert modeler (used in HDS-5 Hydraulic Design of Highway Culverts) was used to produce the Culvert Reports in Appendix 2.

The analysis demonstrated that the design culverts at each location have sufficient capacity to convey the peak volume.



CLA Engineers, Inc.
CIVIL • STRUCTURAL • SURVEYING

317 Main Street Norwich, Connecticut
(860) 886-1966 Fax (860) 886-9165
e-mail: cla@claengineers.com

PROPOSED WATERSHED MAP

CHURCH STREET SITE DEVELOPMENT
BROOKLYN, CT

DATE: 4/5/2021

SCALE: 1 " = 400 Ft

FIGURE

SK-1

Hydrograph Report

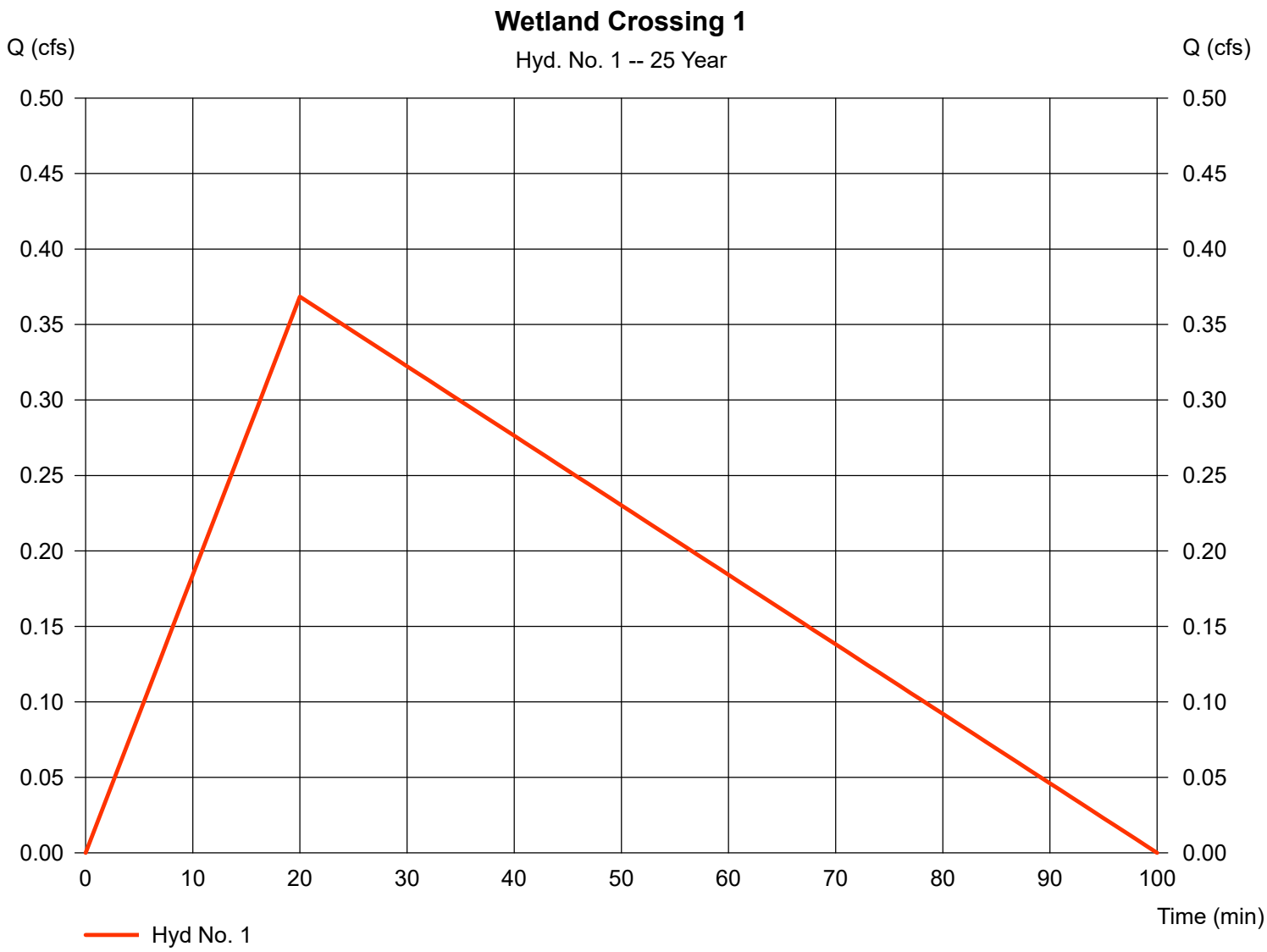
APPPENDIX 1

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2009 by Autodesk, Inc. v6.066 Monday, Apr 5, 2021

Hyd. No. 1

Wetland Crossing 1

Hydrograph type	=	Rational	Peak discharge	=	0.368 cfs
Storm frequency	=	25 yrs	Time to peak	=	20 min
Time interval	=	1 min	Hyd. volume	=	1,105 cuft
Drainage area	=	0.345 ac	Runoff coeff.	=	0.2
Intensity	=	5.339 in/hr	Tc by TR55	=	20.00 min
IDF Curve	=	6639 Church_St.IDF	Asc/Rec limb fact	=	1/4



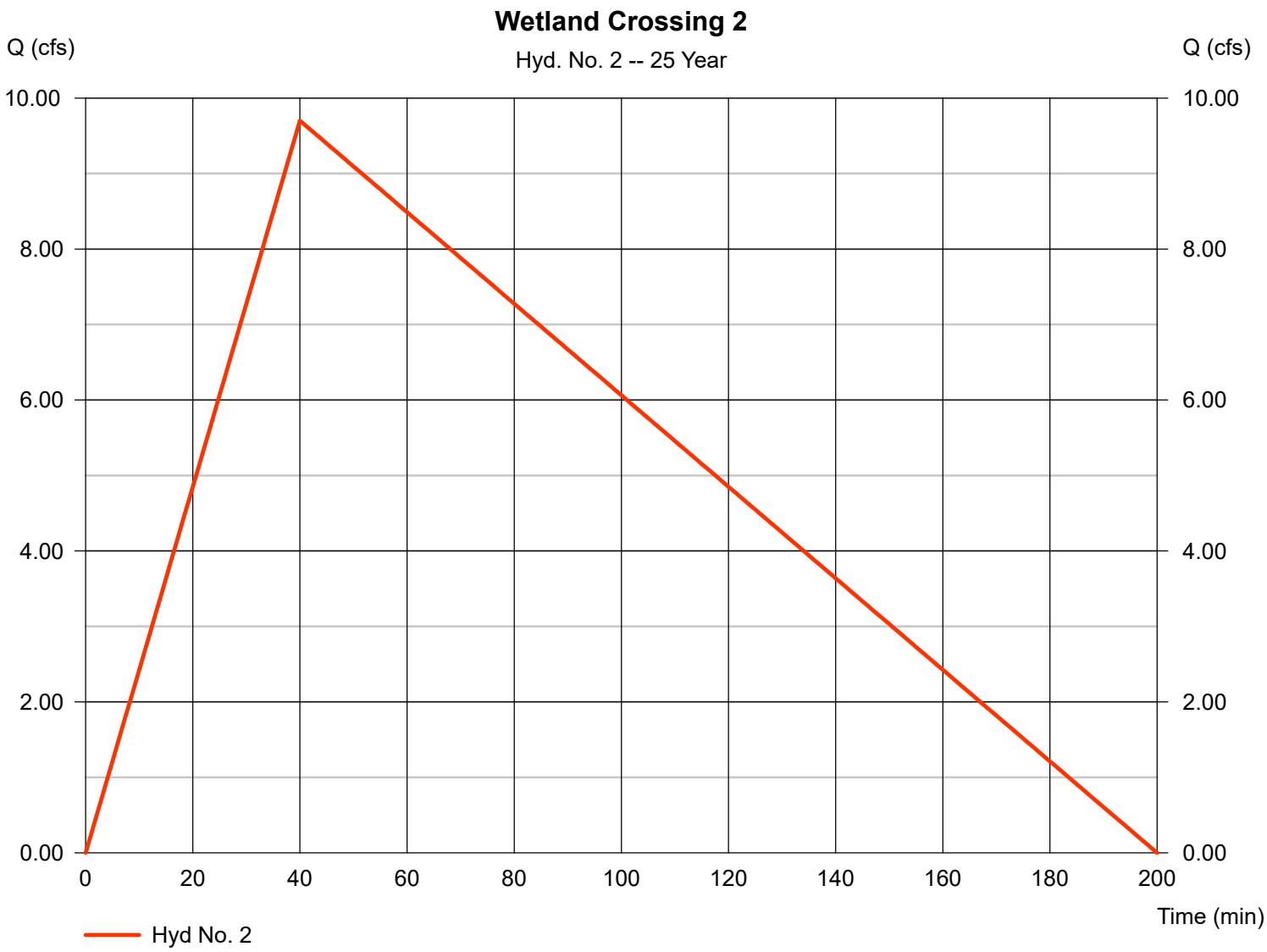
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2009 by Autodesk, Inc. v6.066 Monday, Apr 5, 2021

Hyd. No. 2

Wetland Crossing 2

Hydrograph type	=	Rational	Peak discharge	=	9.701 cfs
Storm frequency	=	25 yrs	Time to peak	=	40 min
Time interval	=	1 min	Hyd. volume	=	58,207 cuft
Drainage area	=	13.010 ac	Runoff coeff.	=	0.2
Intensity	=	3.728 in/hr	Tc by TR55	=	40.00 min
IDF Curve	=	6639 Church_St.IDF	Asc/Rec limb fact	=	1/4



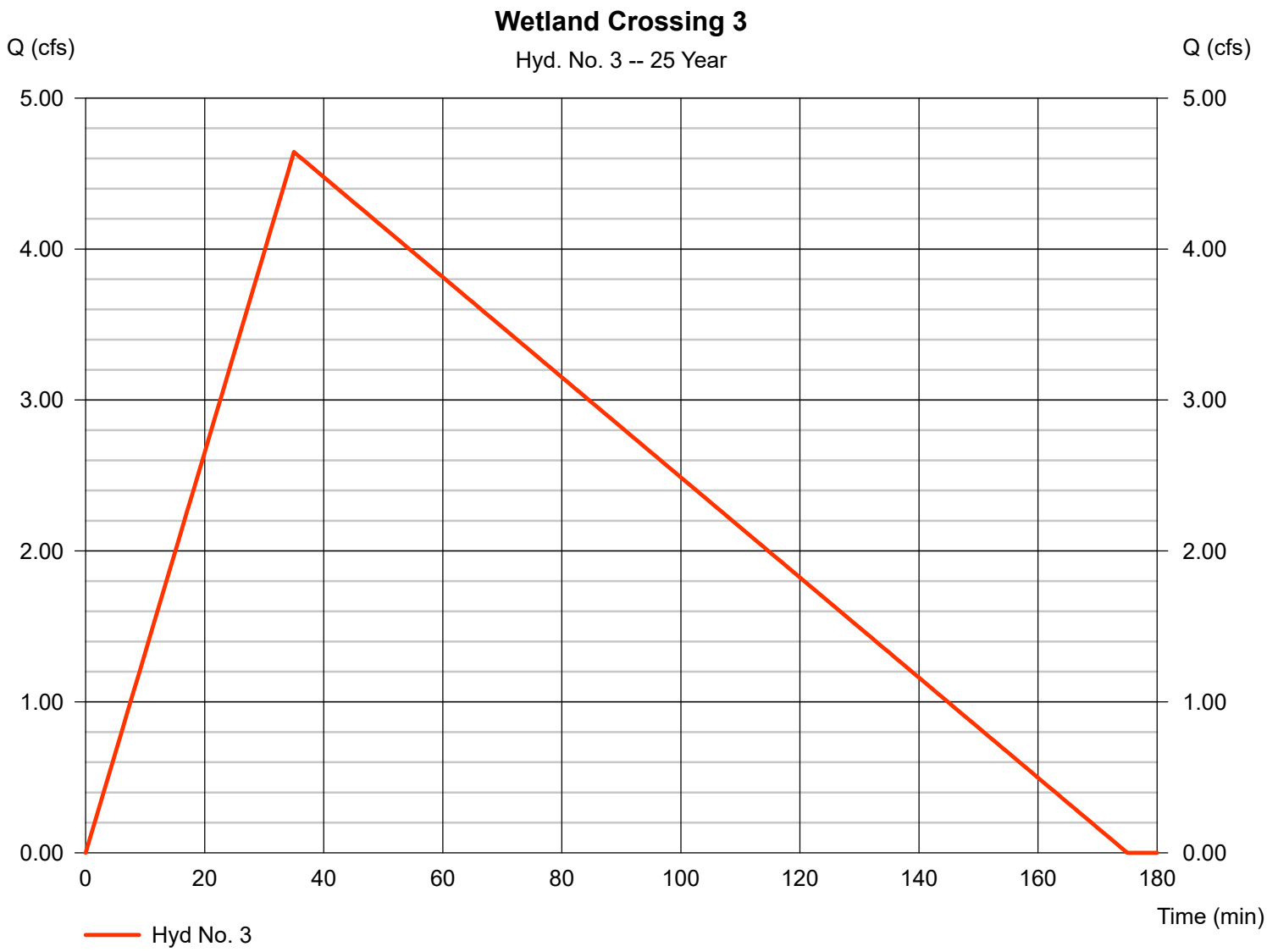
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2009 by Autodesk, Inc. v6.066 Monday, Apr 5, 2021

Hyd. No. 3

Wetland Crossing 3

Hydrograph type	=	Rational	Peak discharge	=	4.643 cfs
Storm frequency	=	25 yrs	Time to peak	=	35 min
Time interval	=	1 min	Hyd. volume	=	24,375 cuft
Drainage area	=	5.770 ac	Runoff coeff.	=	0.2
Intensity	=	4.023 in/hr	Tc by TR55	=	35.00 min
IDF Curve	=	6639 Church_St.IDF	Asc/Rec limb fact	=	1/4



Culvert Report

Hydraflow Express Extension for AutoCAD® Civil 3D® 2009 by Autodesk, Inc. Friday, Apr 30 2021

Wetland Crossing 1

Invert Elev Dn (ft)	=	287.80
Pipe Length (ft)	=	24.00
Slope (%)	=	0.21
Invert Elev Up (ft)	=	287.85
Rise (in)	=	15.0
Shape	=	Cir
Span (in)	=	15.0
No. Barrels	=	1
n-Value	=	0.012
Inlet Edge	=	Projecting
Coeff. K,M,c,Y,k	=	0.0045, 2, 0.0317, 0.69, 0.5

Embankment

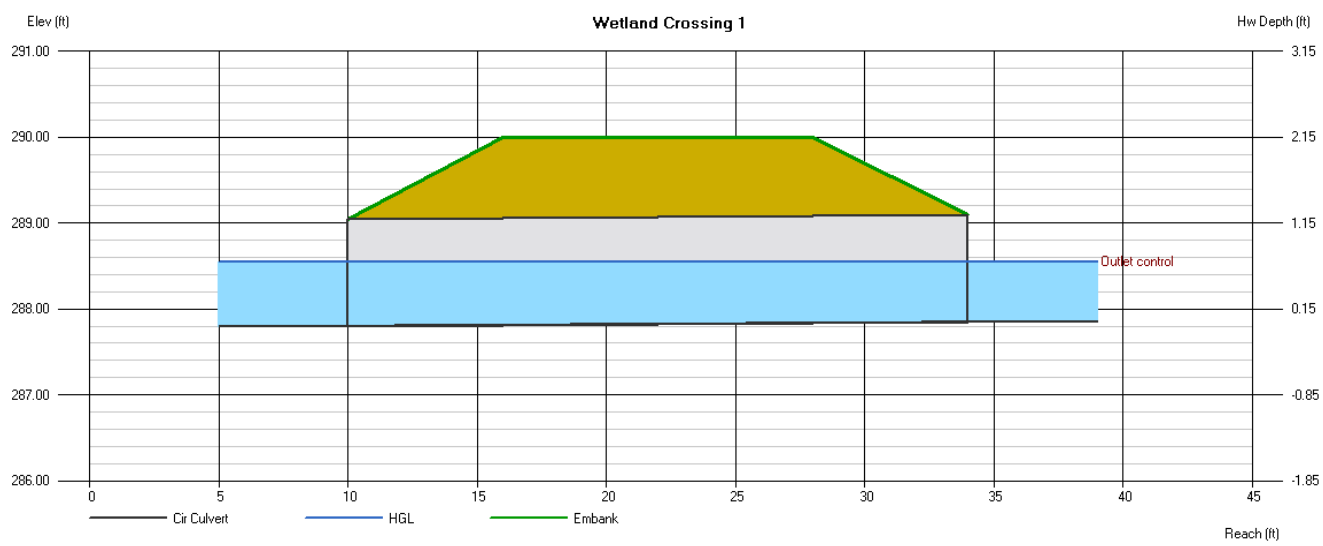
Top Elevation (ft)	=	290.00
Top Width (ft)	=	12.00
Crest Width (ft)	=	50.00

Calculations

Qmin (cfs)	=	0.30
Qmax (cfs)	=	0.50
Tailwater Elev (ft)	=	(dc+D)/2

Highlighted

Qtotal (cfs)	=	0.40
Qpipe (cfs)	=	0.40
Qovertop (cfs)	=	0.00
Veloc Dn (ft/s)	=	0.52
Veloc Up (ft/s)	=	0.57
HGL Dn (ft)	=	288.55
HGL Up (ft)	=	288.55
Hw Elev (ft)	=	288.55
Hw/D (ft)	=	0.56
Flow Regime	=	Outlet Control



Culvert Report

Hydraflow Express Extension for AutoCAD® Civil 3D® 2009 by Autodesk, Inc. Friday, Apr 30 2021

Wetland Crossing 2

Invert Elev Dn (ft)	=	285.90
Pipe Length (ft)	=	24.00
Slope (%)	=	0.83
Invert Elev Up (ft)	=	286.10
Rise (in)	=	15.0
Shape	=	Cir
Span (in)	=	15.0
No. Barrels	=	2
n-Value	=	0.012
Inlet Edge	=	Projecting
Coeff. K,M,c,Y,k	=	0.0045, 2, 0.0317, 0.69, 0.5

Embankment

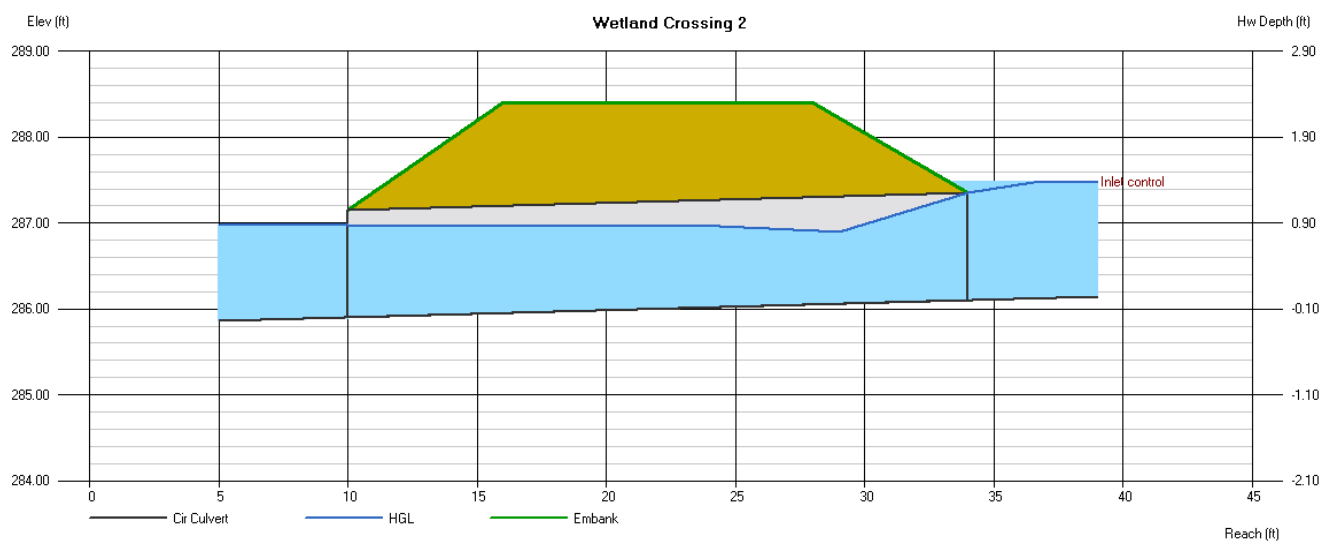
Top Elevation (ft)	=	288.40
Top Width (ft)	=	12.00
Crest Width (ft)	=	50.00

Calculations

Qmin (cfs)	=	9.60
Qmax (cfs)	=	9.80
Tailwater Elev (ft)	=	(dc+D)/2

Highlighted

Qtotal (cfs)	=	9.70
Qpipe (cfs)	=	9.70
Qovertop (cfs)	=	0.00
Veloc Dn (ft/s)	=	4.33
Veloc Up (ft/s)	=	5.13
HGL Dn (ft)	=	286.97
HGL Up (ft)	=	287.00
Hw Elev (ft)	=	287.48
Hw/D (ft)	=	1.10
Flow Regime	=	Inlet Control



Culvert Report

Hydraflow Express Extension for AutoCAD® Civil 3D® 2009 by Autodesk, Inc. Friday, Apr 30 2021

Wetland Crossing 3

Invert Elev Dn (ft)	=	287.80
Pipe Length (ft)	=	24.00
Slope (%)	=	6.25
Invert Elev Up (ft)	=	289.30
Rise (in)	=	15.0
Shape	=	Cir
Span (in)	=	15.0
No. Barrels	=	1
n-Value	=	0.012
Inlet Edge	=	Projecting
Coeff. K,M,c,Y,k	=	0.0045, 2, 0.0317, 0.69, 0.5

Embankment

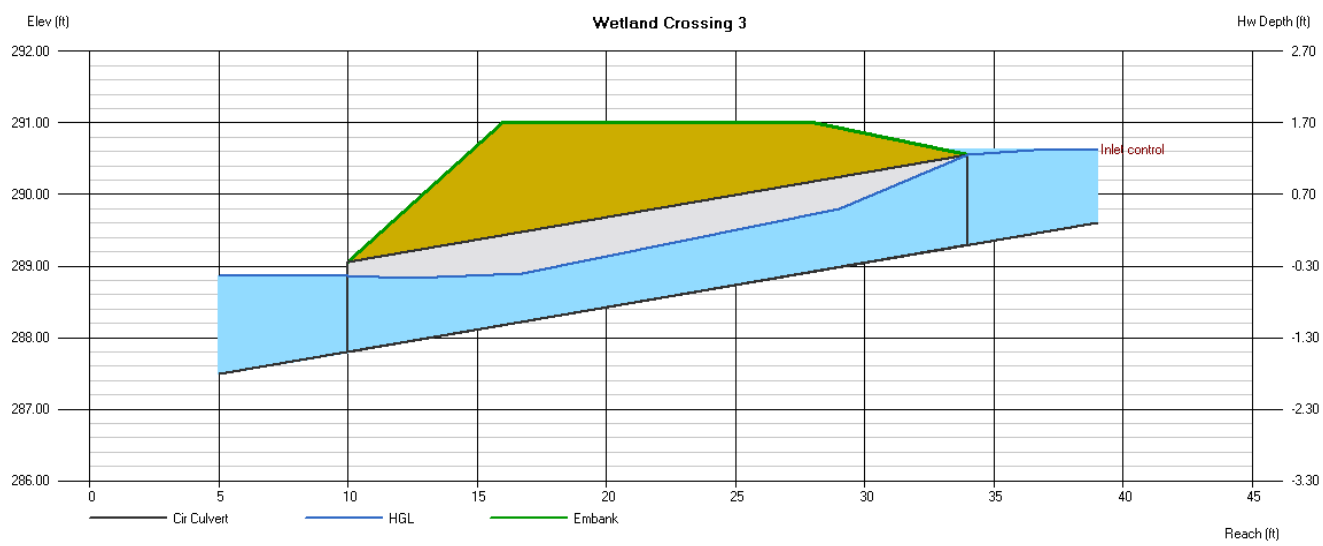
Top Elevation (ft)	=	291.00
Top Width (ft)	=	12.00
Crest Width (ft)	=	50.00

Calculations

Qmin (cfs)	=	4.50
Qmax (cfs)	=	4.70
Tailwater Elev (ft)	=	(dc+D)/2

Highlighted

Qtotal (cfs)	=	4.60
Qpipe (cfs)	=	4.60
Qovertop (cfs)	=	0.00
Veloc Dn (ft/s)	=	4.14
Veloc Up (ft/s)	=	5.02
HGL Dn (ft)	=	288.86
HGL Up (ft)	=	290.17
Hw Elev (ft)	=	290.63
Hw/D (ft)	=	1.06
Flow Regime	=	Inlet Control



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

Pomfret Landing Rd./ Church Street
Address

4/29/21
Date

I met Paul Archer, Andrew + Jake Kausch. I inspected and took photos.

There is a lot of skunk cabbage outside the delineated wetlands as you enter the site off Church Street.

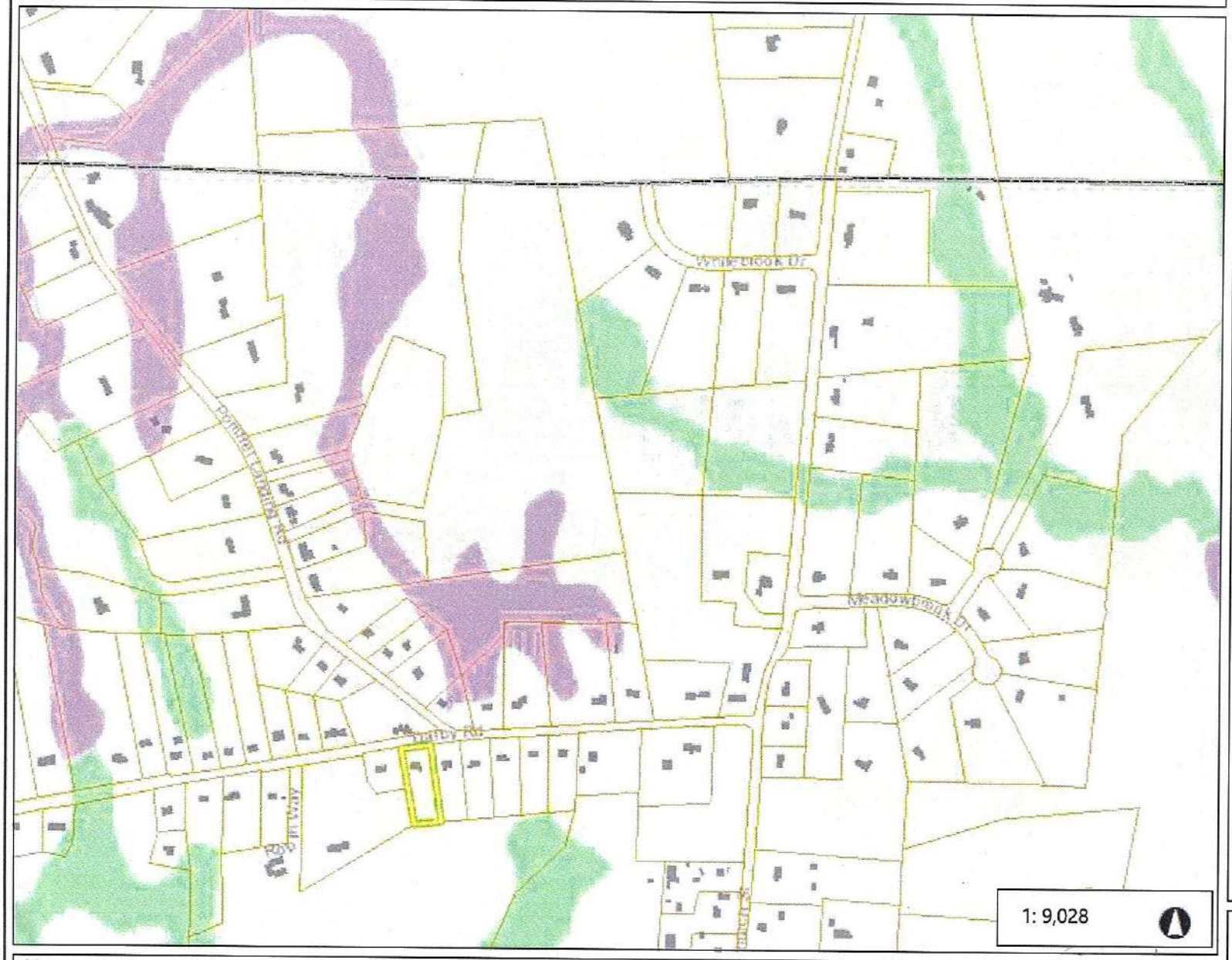
Commission Representative M. Washburn

Owner or Authorized Signature _____

↓Skunk cabbage outside flaggedwetlands

neccog

Neccog GIS Site



Legend

- Town
- Buildings 2012
- Parcels
- Wetlands
  - Alluvial and Floodplain Soils
  - Poorly Drained and Very Poorly Dra

0.3 0 0.14 0.3 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere

© Latitude Geographics Group Ltd.

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

Notes

Church Street, Pomfret Landing Road and White Brook Drive NECCOG GIS wetlands

REVISED:

INLAND WETLANDS & WATERCOURSES COMMISSION
TOWN OF BROOKLYN, CONECTICUT

Date 7/13/21

Application # 071321A

APPLICATION -- INLAND WETLANDS & WATERCOURSES

APPLICANT A. KARSCH & SONS MAILING ADDRESS 15 BEACH VIEW RD, EXT. VOLUNTOWN
APPLICANT'S INTEREST IN PROPERTY OWNER PHONE 860 230 9928 EMAIL ANDREW KARSCH@YAHOO.COM

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

ENGINEER/SURVEYOR (IF ANY) ARCHER SURVEYING LLC / CLA ENGINEERS
ATTORNEY (IF ANY) _____

PROPERTY LOCATION/ADDRESS PONFRET LANDING ROAD / CHURCH STREET
MAP # 37 37 LOT # 20/21 17 ZONE RA TOTAL ACRES 27± ACRES OF WETLANDS ON PROPERTY 6±

PURPOSE AND DESCRIPTION OF THE ACTIVITY WETLAND CROSSING FOR DRIVEWAY
2 RESIDENTIAL HOMES, SEPTIC SYSTEMS, WELLS, MINOR GRADING

WETLANDS EXCAVATION AND FILL:
FILL PROPOSED _____ CUBIC YDS _____ SQ FT 3,650 SQFT
EXCAVATION PROPOSED _____ CUBIC YDS _____ SQ FT 0
LOCATION WHERE MATERIAL WILL BE PLACED: ON SITE ✓ OFF SITE _____
TOTAL REGULATED AREA ALTERED: SQ FT ~~20,000~~ 38,000 SQFT ACRES ~~.4±~~ .80

EXPLAIN ALTERNATIVES CONSIDERED (REQUIRED): SEE ATTACHED REPORT FROM ROBERT RUSSO

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

IS ~~PARCEL~~ ACTIVITY 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: _____ DATE 6/30/21

OWNER: _____ DATE 6/30/21

RECEIVED
JUL 13 2021

Revised 10/26/16

Abutters of A. Kausch & Sons (Map 37 / Lots 17, 17-1, 20 & 21)

Eric & Cory Strandson
3 White Brook Drive
Brooklyn CT 06234
37/22-1

James & Deborah Warren
9 White Brook Drive
Brooklyn CT 06234
37/22-2

Drew & Carla Mizak
15 White Brook Drive
Brooklyn CT 06234
37/22-3

Alan & Heidi Carpenter
23 White Brook Drive
Brooklyn CT 06234
37/22-4

Michael Podzaline &
Erin King
27 White Brook Drive
Brooklyn CT 06234
37/22-5

OJA Thure
333 Woods Hill Road
Pomfret CT
47/D/5.00

Henry & Sandra Yakey
353 Searles Road
Pomfret CT
47/D/6.00

Henry & Sandra Yakey
64 Pomfret Landing Road
Brooklyn CT 06234
37/12

The State of Connecticut
Pomfret Landing Road
Brooklyn CT 06234
37/14

Douglas & Susan Clark
42 Pomfret Landing Road
Brooklyn CT 06234
37/18

Vincent Rossetti
36 Pomfret Landing Road
Brooklyn CT 06234
37/19

Jerry & Debra Sullivan
28 Pomfret Landing Road
Brooklyn CT 0624
36/44

Brooklyn Manor LLC
371 Church Street
Brooklyn CT 06234
36/54

James & Meredith Crabtree
375 Church Street
Brooklyn CT 06234

RECEIVED

APR 0 7 2021

INLAND WETLANDS & WATERCOURSES COMMISSION
TOWN OF BROOKLYN, CONECTICUT

Date _____ Application # 041321D

APPLICATION -- INLAND WETLANDS & WATERCOURSES

APPLICANT A. KAISCH & SONS MAILING ADDRESS 15 BEACH VIEW RD EXT, VOLUNTOWN
APPLICANT'S INTEREST IN PROPERTY OWNER PHONE _____ _____ EMAIL _____

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

ENGINEER/SURVEYOR (IF ANY) ARCHER SURVEYING LLC, CLA ENGINEERS
ATTORNEY (IF ANY) _____

PROPERTY LOCATION/ADDRESS POMFRET LANDING RD / CHURCH STREET
MAP # 37 37 LOT # 20/21 17 ZONE RA TOTAL ACRES 29± ACRES OF WETLANDS ON PROPERTY 6±

PURPOSE AND DESCRIPTION OF THE ACTIVITY WETLANDS CROSSING FOR DRIVEWAY
2 RESIDENTIAL HOMES, SEPTIC SYSTEM, WELL - MINOR GRADING

WETLANDS EXCAVATION AND FILL:
FILL PROPOSED _____ CUBIC YDS _____ SQ FT [redacted] 3,650 SQFT
EXCAVATION PROPOSED _____ CUBIC YDS _____ SQ FT 0
LOCATION WHERE MATERIAL WILL BE PLACED: ON SITE ✓ OFF SITE _____
TOTAL REGULATED AREA ALTERED: SQ FT [redacted] 20,000 ACRES [redacted] .4±

EXPLAIN ALTERNATIVES CONSIDERED (REQUIRED): _____

MITIGATION MEASURES (IF REQUIRED): WETLANDS/WATERCOURSES CREATED: CY _____ 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 4/5/21

OWNER: [signature] DATE 4/5/21

Connecticut Department of
ENERGY & ENVIRONMENTAL PROTECTION

GIS CODE #: ___ ___ ___ ___ ___ ___ ___ ___ ___
For DEEP Use Only

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

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. Kaiser & Sons
8. NAME & ADDRESS / LOCATION OF PROJECT SITE (print information): Church St / ~~Bandy Rd~~ Pomfret Landing
   briefly describe the action/project/activity (check and print information): temporary ☐ permanent ☑ description: Driveway, Residential Homes
9. ACTIVITY *PURPOSE* CODE (see instructions, only use one code): B
10. ACTIVITY *TYPE* CODE(S) (see instructions for codes): 1, 9, 12, _____
11. WETLAND / WATERCOURSE AREA ALTERED (must provide acres or linear feet):
    wetlands: .08 acres open water body: _____ acres stream: _____ linear feet
12. UPLAND AREA ALTERED (must provide acres): .005 acres
13. AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (must provide acres): Ø acres

DATE RECEIVED:

PART III: To Be Completed By The DEEP

DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO

FORM CORRECTED / COMPLETED: YES NO

REQUIREMENTS

_____ APPLICATION FEE $ 150 STATE FEE ($60.00) 60 $210

_____ 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

Brooklyn Inland Wetlands
Commission
P.O. Box 356
Brooklyn, Connecticut 06234

TOWN OF BROOKLYN
INLAND WETLANDS COMMISSION
PUBLIC HEARING NOTICE

The Brooklyn Inland Wetlands and Watercourses Commission will hold a hybrid public hearing on Tuesday, August 10, 2021, at 6:00 p.m. via a virtual WebEx Meeting and at the Clifford B. Green Community Meeting Room, Suite 24, 69 South Main Street on the following:

071321A A. Kausch & Sons, Pomfret Landing Road/Church Street, Map 37, Lot 17 and Map 37 Lot 20/21, Wetlands crossing for driveway, 2 residential homes, septic systems, wells, minor grading.

A copy of the application is available for review.

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

Jeffrey Arends
Chairman

Dated this 14th day of July 2021

PUBLIC HEARING
DEALING WITH THESE PREMISES
IS TO BE HELD ON
AUGUST 10TH @ 5:00PM FOR
MORE INFORMATION CONTACT
THE BROOKLYN
LAND USE DEPARTMENT

PUBLIC HEARING

NORTHEAST DISTRICT DEPARTMENT OF HEALTH
69 SOUTH MAIN STREET
BROOKLYN, CT 06234
(860) 774-7350

SITE INVESTIGATION FOR A SUBSURFACE SEWAGE DISPOSAL SYSTEM

File # 21000307 Map # 37 Block # _____ Lot # 17

Property Owner A. Kausch + Sons LLC Address Pomfret Landing Road, Brooklyn

DEEP TEST PIT DATA/SOIL DESCRIPTIONS

DATE: 3/29/21

TEST PIT: 1	TEST PIT: 2	TEST PIT: 3	TEST PIT: 4
0-10" Top Soil / Organics 10"-16" Orange Brown Fine Sand Loam 16"-34" Tan Compact Sand Loam 34"-78" Grey Sand + Gravel	0-10" Top Soil / Organics 10"-27" Dark Brown Fine Sand 27"-48" Grey Compact Sand 48"-70" Sand + Gravel	0-12" Top Soil / Organics 12"-30" Tan Orange Fine Sand Loam 30"-48" Grey Sand Layer 48"-72" Sand + Gravel	0-10" Top Soil / Organics 10"-24" Tan Orange Fine Sand Loam 24"-80" Saturated Grey Sand + gravel
Mottles: 36"	Mottles: 32"	Mottles: 30"	Mottles: 28"
GW: 66"	GW: 62"	GW: 65"	GW: 74"
Ledge: -	Ledge:	Ledge:	Ledge:
Roots: 46"	Roots: 32"	Roots:	Roots: 30"
Restrictive:	Restrictive:	Restrictive:	Restrictive:

COMMENTS: _____

GROUNDWATER TABLE (Near max., below max., etc.): _____
SOIL MOISTURE (High, medium, low, etc.): _____

PERCOLATION TEST DATA

DATE: 3/29/21

PERC: 1		PERC: 2		PERC:		PERC:	
DEPTH: 23"		DEPTH: 17"		DEPTH:		DEPTH:	
PRESOAK: 2 hours		PRESOAK: 2 hours		PRESOAK:		PRESOAK:	
TIME	READING	TIME	READING	TIME	READING	TIME	READING
11:10	6"	11:04	6.25"				
11:12	7"	11:10	8.25"				
11:14	8"	11:16	9.75"				
11:16	8.5"	11:22	10.625"				
11:18	9.25"	11:34	12.125"				
11:20	9.5"	11:46	13.125"				
11:22	10"	11:58	14.625"				
11:25	11"						
11:28	11.5						
PERC RATE: 6 min/in		PERC RATE: 8 min/in		PERC RATE:		PERC RATE:	

11:31 = 12"

COMMENTS: _____

NORTHEAST DISTRICT DEPARTMENT OF HEALTH
69 SOUTH MAIN STREET
BROOKLYN, CT 06234
(860) 774-7350
SITE INVESTIGATION FOR A SUBSURFACE SEWAGE DISPOSAL SYSTEM

File # 21000307 Map # 37 Block # _____ Lot # 17

Property Owner A. Kausch + Sons LLC Address Pomfret Landing Road, Brooklyn

LOCATION DRAWING INCLUDING ALL TEST PITS AND PERCOLATION HOLES

* Test pits and perc holes surveyor located.

SPECIAL CONDITIONS		DESIGN RECOMMENDATIONS	
Design Flow > 2000 GPD		Suitable for Sewage Disposal	✓
Public Water Supply Watershed		Unsuitable for Sewage Disposal	
Probable High Groundwater	✓	Wet Season Monitoring Required	
Slope > 25 percent		Engineered Plan Required	✓
Perc Rate < 1 min/inch		Surveyor Plan Required	
Perc Rate > 30 min/inch		Septic Installer Plan Required	
Ledge < 5 feet below grade		Number of Bedrooms	3
Limited Suitable Area		Gallons Per Day (Non-Residential)	
Open Watercourse or Wetlands	✓	Size of Septic Tank Required	1,000 gallon
Flood Plain / Seasonal Flooding		Effective Leaching Area Required	495 sq ft
Max. G.W. < 36 inches below grade		Maximum Depth into Grade	10 inches

DESIGN RECOMMENDATIONS/COMMENTS

A septic system for a 3 bedroom home requires a 1,000 gallon tank and 495 sq ft of ELA. The max depth into existing grade for the system is 10" inches. In the area of TP 1 and TP2 the max depth into existing grade is 14" inches.

Investigated By:
Donovan Moe 3/29/21 Title: EHS

Witnessed By:
Steve Knauf Title: RS

Copies To: Applicant _____ Other _____

Abutters of A. Kausch & Sons (Map 37 / Lots 17, 17-1, 20 & 21)

Eric & Cory Strandson
3 White Brook Drive
Brooklyn CT 06234
37/22-1

James & Deborah Warren
9 White Brook Drive
Brooklyn CT 06234
37/22-2

Drew & Carla Mizak
15 White Brook Drive
Brooklyn CT 06234
37/22-3

Alan & Heidi Carpenter
23 White Brook Drive
Brooklyn CT 06234
37/22-4

Michael Podzaline &
Erin King
27 White Brook Drive
Brooklyn CT 06234
37/22-5

OJA Thure
333 Woods Hill Road
Pomfret CT
47/D/5.00

Henry & Sandra Yakey
353 Searles Road
Pomfret CT
47/D/6.00

Henry & Sandra Yakey
64 Pomfret Landing Road
Brooklyn CT 06234
37/12

The State of Connecticut
Pomfret Landing Road
Brooklyn CT 06234
37/14
450 Capitol Ave
Hartford, CT 06106

Douglas & Susan Clark
42 Pomfret Landing Road
Brooklyn CT 06234
37/18

Vincent Rossetti
36 Pomfret Landing Road
Brooklyn CT 06234
37/19

Jerry & Debra Sullivan
28 Pomfret Landing Road
Brooklyn CT 0624
36/44

Brooklyn Manor LLC
371 Church Street
Brooklyn CT 06234
36/54
Owner: 46 Pole Bridge Road
Woodstock, CT 06281

James & Meredith Crabtree
375 Church Street
Brooklyn CT 06234

Tracy Elliot
46 Pomfret Landing Road
Brooklyn, CT 06234

Carl & Patricia Maiorino
426 Church Street
Brooklyn, CT 06234

Sean & Tina Whiteley
412 Church Street
Brooklyn CT 06234

Joseph & Stephanie Pelletier
420 Church Street
Brooklyn CT 06234

Deborah Ethier
6 Meadowbrook Drive
Brooklyn, CT 06234

Valerie Gamble
43 Pomfret Landing Road
Brooklyn, CT 06234

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Street and Apt. No., or PO Box No. 43 Pomfret Landing Rd
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August 24, 2021

Re: Church Street / Pomfret Landing Road
Map 37 Lots 17, 17-1, 20, 21

To Whom It May Concern,

As an abutter of the above mentioned property, you are being notified that an application for a Wetlands Crossing has been submitted to the Inland Wetlands and Watercourses Commission on behalf of A.Kausch and Sons.

A Public Hearing has been scheduled for Tuesday September 14th at 6:00PM.

To view the full application and more information, please contact the Brooklyn Planning Department.

Sincerely,

Paul Archer, L.S.
Archer Surveying

Photos emailed on 8/27/21 by Andrew Kausch

Photos emailed on 8/27/21 by Andrew Kausch

LEGEND

- PROPERTY LINE
- PROPOSED PROPERTY LINE
- EASEMENT
- STONEWALL
- STONEWALL REMAINS
- EXISTING INDEX CONTOURS (100)
- EXISTING CONTOURS (100)
- WETLANDS FLAG
- BUILDING SETBACK
- SILT FENCE (SF)
- IRON PIN
- DRILL HOLE
- MONUMENT
- PROPERTY POINT
- UTILITY POLE (CL&P 1645)

Connecticut Grid

Map References

1. Town of Brooklyn, Plan showing land acquired from Annie Weldon by The State of Connecticut, Brooklyn - Pomfret Landing Rd, Scale: 1"=40', Date: September 1935

2. Plan of Brooklyn Manor, Darby Road and New Kimball Road, Brooklyn, Connecticut, Scale: 1"=40', Date: April 1980, Prepared by Kieltyka, Woodis & Pike

3. Subdivision Map "White Brook Estates" Prepared for Eric Lehto, Church Street, Brooklyn, Connecticut, Date: June 2004, Scale: 1"=50', Prepared by Provost and Rovero Inc.

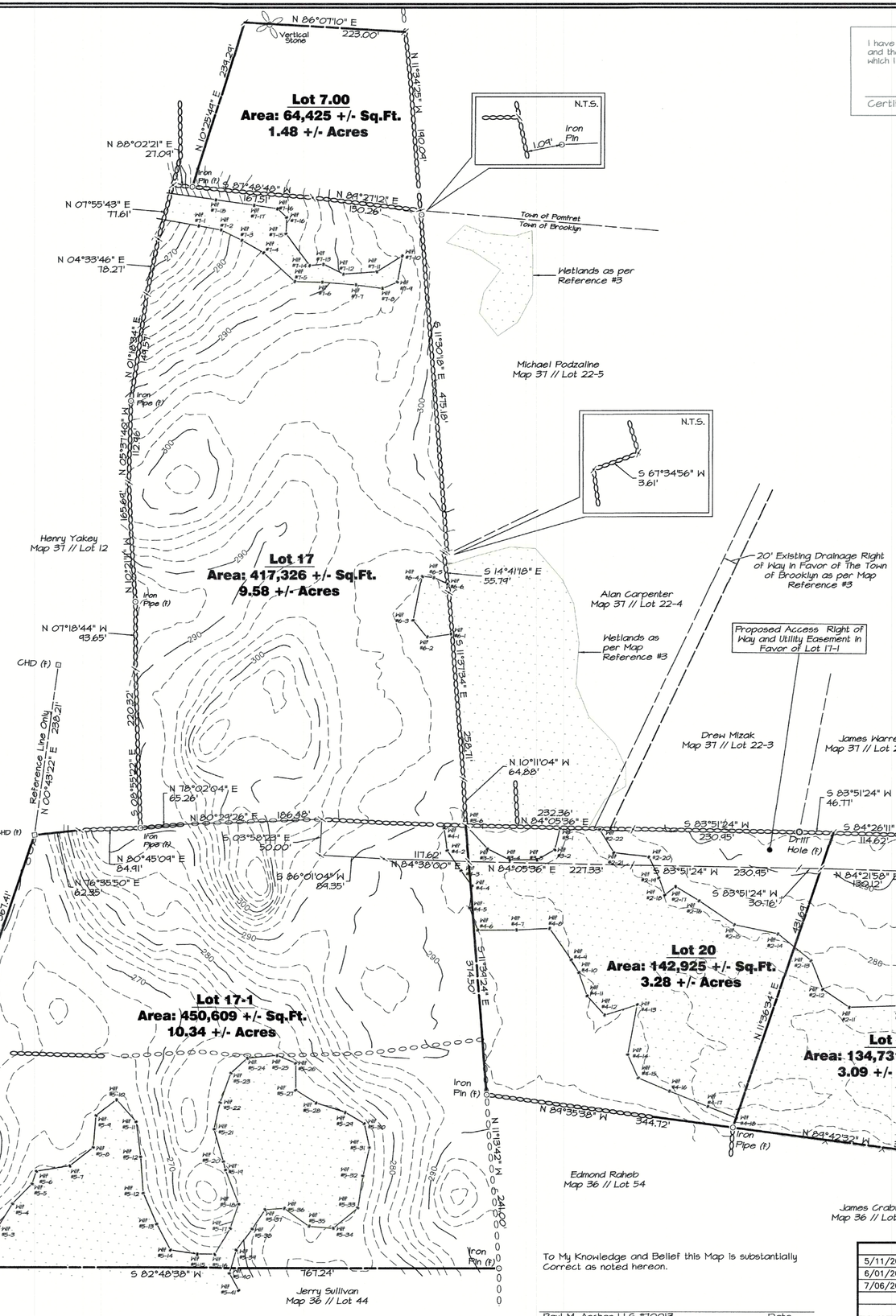
4. Plat of Bounds on Pomfret-Brooklyn Town Line, as Found 1930 and 1931, Scale: 80 Rods (1320') to Inch, Prepared by G. Perry

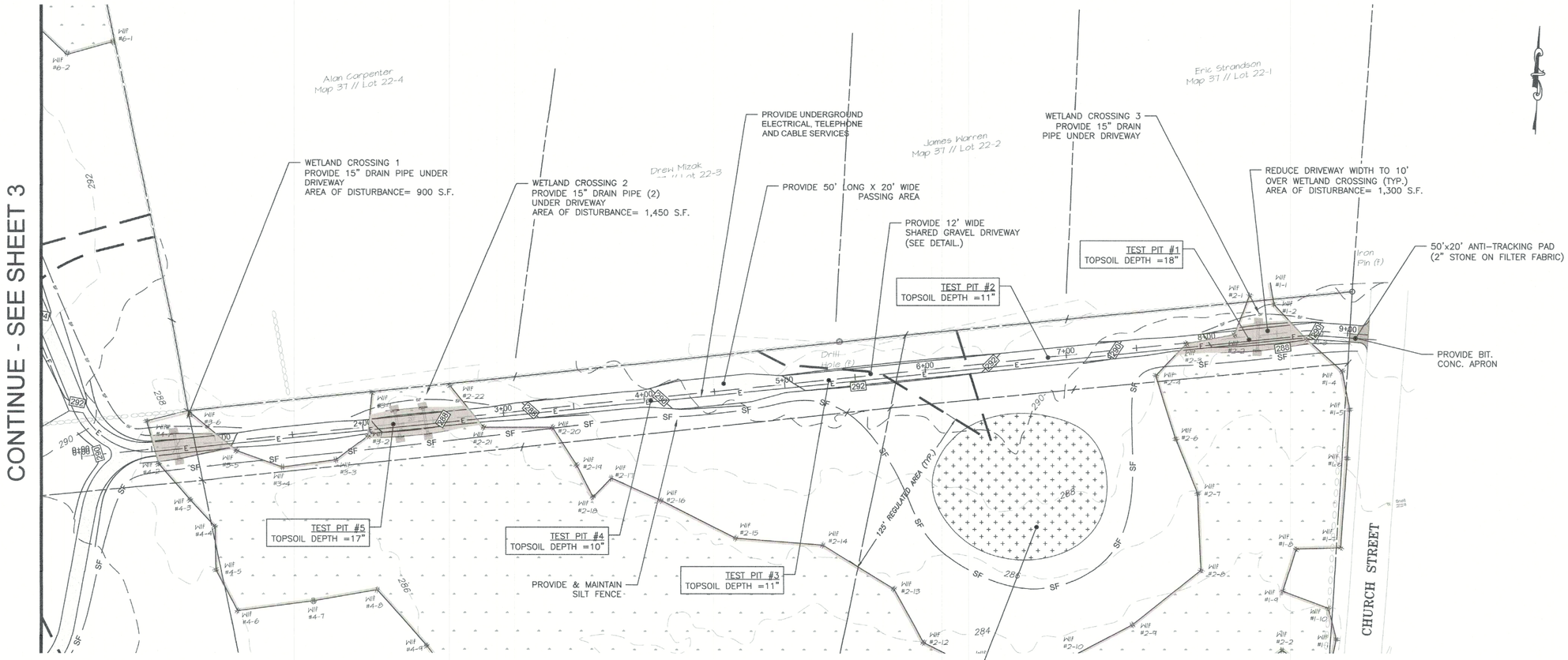
5. Map Showing Subdivision For Leonard Bissonnette, Pomfret Landing Road, Brooklyn, Connecticut, Scale: 1"=40', Date: November 1973

6. Perimeter Survey Prepared for Jerry & Deb Sullivan, 28 Pomfret Land Road, Brooklyn, Connecticut, Date: September 2010, Scale: 1"=40', Prepared by Archer Surveying LLC

7. Property Survey - Boundary Line Modification, Prepared for A.Kausch and Sons LLC, Church Street/Pomfret Landing, Brooklyn, Connecticut, Date: April 2021, Scale: 1"=80', Prepared by Archer Surveying LLC

8. Property Survey - "First Time Split", Prepared for A. Kausch and Sons LLC, Church Street/Pomfret Landing, Brooklyn, Connecticut, Date: April 2021, Scale: 1"=80', Prepared by Archer Surveying LLC


Lot 7.00
Area: 64,425 +/- Sq.Ft.
1.48 +/- Acres
Lot 17
Area: 417,326 +/- Sq.Ft.
9.58 +/- Acres
Lot 17-1
Area: 450,609 +/- Sq.Ft.
10.34 +/- Acres
Lot 20
Area: 142,925 +/- Sq.Ft.
3.28 +/- Acres
Lot 21
Area: 134,731 +/- Sq.Ft.
3.09 +/- Acres
N 86°07'10" E 223.00'
N 10°25'44" E 239.29'
N 03°34'25" W 190.09'
N 88°02'21" E 21.09'
N 07°55'43" E 77.61'
N 04°33'46" E 78.27'
N 01°18'34" E 124.57'
N 02°37'40" W 112.96'
N 02°12'16" W 165.64'
N 07°18'44" W 93.65'
S 11°30'18" E 475.18'
S 14°41'18" E 55.79'
S 11°19'34" E 250.11'
S 11°39'24" E 314.50'
N 11°36'34" E 431.49'
N 03°33'36" E 456.42'
N 84°35'58" W 344.72'
N 84°42'32" W 314.52'
S 82°48'38" W 767.24'
N 11°13'42" W 241.00'
N 11°42'13" E 367.41'
N 10°11'04" W 64.88'
N 78°02'04" E 65.26'
N 80°29'26" E 186.38'
S 03°58'23" E 50.00'
N 80°45'09" E 84.91'
N 76°35'50" E 62.35'
S 86°01'04" W 84.35'
N 84°38'00" E 117.60'
N 84°05'36" E 232.36'
N 84°05'36" E 227.33'
S 83°51'24" W 230.45'
S 83°51'24" W 30.16'
S 83°51'24" W 46.77'
S 84°26'11" W 114.62'
S 84°26'11" W 202.86'
N 84°21'58" E 120.12'
N 84°26'11" E 144.83'
N 84°26'11" E 110.64'
N 84°26'11" E 110.64'
N 84°26'11" E 110.64



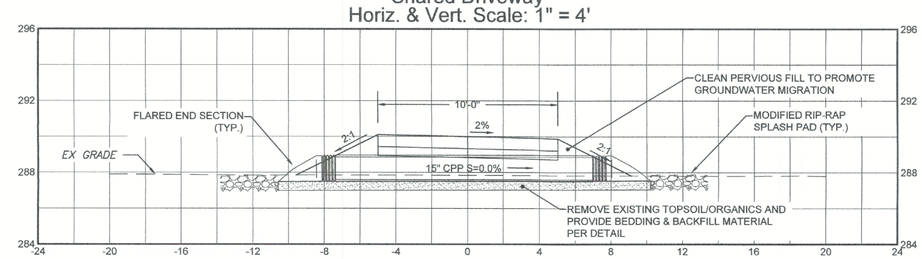
PLAN

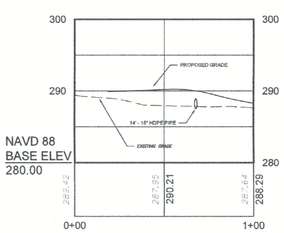
40' 0 40' 80'

SCALE: 1"=40'

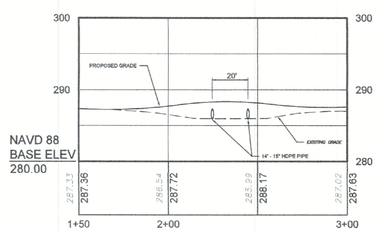
NOTE:
TEST HOLES IN PROPOSED DRIVEWAY WERE OBSERVED ON 5-18-21 AT THE APPROXIMATE LOCATIONS SHOWN ABOVE. INDICATIONS OF SEASONAL HIGH GROUNDWATER DEPTH WAS OBSERVED BETWEEN 0-16" IN WETLAND AREAS, AND 16" AND GREATER IN UPLAND AREAS.

Wetland Crossing (Typical)
Shared Driveway
Horiz. & Vert. Scale: 1" = 4'

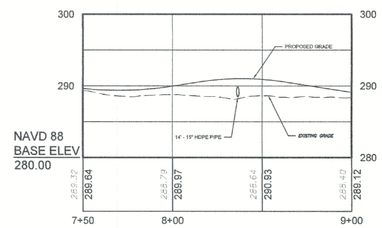




SHARED DRIVEWAY Wetland Crossing 1
STA 0+00 TO STA 1+00
Horiz. Scale= 1"= 40'
Vert. Scale= 1"= 10'



SHARED DRIVEWAY Wetland Crossing 2
STA 1+50 TO STA 3+00
Horiz. Scale= 1"= 40'
Vert. Scale= 1"= 10'



SHARED DRIVEWAY Wetland Crossing 3
STA 7+50 TO STA 9+00
Horiz. Scale= 1"= 40'
Vert. Scale= 1"= 10'

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

No.	DATE	REVISION
4	07/28/21	REGULATED AREA MODIFIED
3	07/06/21	MISCELLANEOUS REVISIONS
2	06/30/21	VARIOUS MODIFICATIONS
1	05/10/21	VARIOUS MODIFICATIONS

CLA Engineers, Inc.
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317 Main Street Norwich, CT 06360
(860) 886-1966 Fax (860) 886-9165

STATE OF CONNECTICUT ROBERT A. DEPLEDGE 18192 LICENSED PROFESSIONAL ENGINEER

A. KAUSCH & SONS, LLC

LOTS 019-37-17, 019-37-20 & 019-37-21
CHURCH ST. SITE DEVELOPMENT
BROOKLYN, CT

GRADING & SITE DESIGN

Project No. CLA-6639
Proj. Engineer R.A.D.
Date: 04/30/21
Sheet No. 2 of 4

CLA

SELECT FILL SPECIFICATION

SELECT FILL PLACED WITHIN AND ADJACENT TO LEACHING SYSTEM AREAS SHALL BE COMPRISED OF CLEAN SAND, OR SAND AND GRAVEL, FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES. THE SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS PER THE CONNECTICUT PUBLIC HEALTH CODE FOR USE WITHIN THE LEACHING AREA:

1. THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THE THREE (3) INCH SLEEVE.
2. UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SLEEVE (THIS IS THE GRAVEL PORTION OF THE SAMPLE).
3. THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE SIEVE ANALYSIS STARTED.
4. THE REMAINING SAMPLE SHALL MEET THE FOLLOWING CRITERIA:

SIEVE SIZE	PERCENT PASSING WET SIEVE	DRY SIEVE
#4	100	100
#10	70–100	70–100
#40	10–50*	10–75
#100	0–20	0–5
#200	0–5	0–2.5

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

SEPTIC NOTES

1. PROPOSED SEPTIC SYSTEM TO BE STAKED IN THE FIELD BY A LAND SURVEYOR LICENSED IN THE STATE OF CONNECTICUT.
2. A BENCHMARK SHALL BE SET WITHIN 10'–15' OF THE PROPOSED SEPTIC SYSTEM PRIOR TO CONSTRUCTION.
3. ALL WORK AND MATERIAL (SEPTIC TANK, DISTRIBUTION BOX, PIPE) SHALL CONFORM TO THE CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEM.
4. SEWER LINE FROM FOUNDATION WALL TO SEPTIC TANK SHALL BE 4" SCHEDULE 40 PVC – ASTM D 1785 AND JOINTS PER HEALTH DEPT. CODE. PIPE FROM SEPTIC TANK TO DISTRIBUTION LINES SHALL BE 4" SOLID PVC CONFORMING TO STMD–3034 AND SDR–35.
5. SYSTEMS SHALL BE SET LEVEL FOR ENTIRE LENGTH AND HAVE A CENTER TO CENTER SPACING AS CALLED FOR IN THE CONNECTICUT PUBLIC HEALTH CODE. THERE ARE PRESENTLY NO KNOWN WATER WELLS WITHIN 75' OF THE PROPOSED SEPTIC SYSTEMS.
6. CLEAR AND GRUB THE AREA WHERE THE SEPTIC SYSTEMS AND HOUSES ARE TO BE CONSTRUCTED. ALL TOPSOIL IS TO BE STRIPPED AND STOCKPILED FOR FUTURE USE.
7. ALL FILL MATERIAL SHALL BE CLEAN EARTH FREE OF STUMPS, ORGANICS, CONSTRUCTION DEBRIS AND TOPSOIL.
8. TOPSOIL SHALL BE RE–APPLIED OVER ALL FILL AREAS AND ALL DISTURBED AREAS TO PROVIDE A MINIMUM DEPTH OF FOUR INCHES IN ACCORDANCE WITH THE SLOPE STABILIZATION DETAILS..

DEEP TEST PIT DATA / SOIL DESCRIPTIONS

PERFORMED BY: Donovan Moe

WITNESSED BY: NORTHEAST DISTRICT DEPARTMENT OF HEALTH DATE: 03/30/2021

TEST PIT: 1

0" - 10" Topsoil / Organics
10" - 16" Orange Brown Fine Sand Loam
16" - 34" Tan Compact Sand Loam
34" - 78" Grey Sand & Gravel

MOTTLES:	36"
GROUNDWATER:	66"
LEDGE:	NO
ROOTS:	46"
RESTRICTIVE:	NO

TEST PIT: 2

0" - 10" Topsoil / Organics
10" - 27" Dark Brown Fine Sand
27" - 48" Grey Compact Sand
48" - 70" Sand & Gravel

MOTTLES:	32"
GROUNDWATER:	62"
LEDGE:	NO
ROOTS:	32"
RESTRICTIVE:	NO

TEST PIT: 3

0" - 12" Topsoil / Organics
12" - 30" Tan Orange Fine Sand Loam
30" - 48" Grey Sand Layer
48" - 72" Sand & Gravel

MOTTLES:	30"
GROUNDWATER:	65"
LEDGE:	NO
ROOTS:	NO
RESTRICTIVE:	NO

TEST PIT: 4

0" - 10" Topsoil / Organics
10" - 24" Tan Orange Fine Sand Loam
24" - 80" Saturated Grey Sand & Gravel

MOTTLES:	28"
GROUNDWATER:	74"
LEDGE:	NO
ROOTS:	30"
RESTRICTIVE:	NO

PERCOLATION DATA

PERC 1 - DEPTH 23"

TIME	DROP (INCHES)
11:10	6.0
11:12	7.0
11:14	8.0
11:16	8.5
11:18	9.25
11:20	9.5
11:22	10.0
11:25	11.0
11:28	11.5
11:31	12.0

PERCOLATION RATE > 6.0 MIN./IN.

NOTES:
PERCOLATION TEST PERFORMED ON 3/30/2021
PERFORMED BY Donovan Moe

PERCOLATION DATA

PERC 2 - DEPTH 17"

TIME	DROP (INCHES)
11:04	6.25
11:10	8.25
11:16	9.75
11:22	10.625
11:34	12.125
11:46	13.125
11:58	14.625

PERCOLATION RATE > 8.0 MIN./IN.

NOTES:
PERCOLATION TEST PERFORMED ON 3/30/2021
PERFORMED BY Donovan Moe

CONCEPT SEPTIC SYSTEM DESIGN

PROPOSED LOT 1
PRIMARY LEACHING AREA
4 BEDROOM RESIDENCE
PERCOLATION RATE: 6.0 MIN./INCH (NDDH FILE #21000307)
LEACHING AREA REQUIRED: 557.5 SF

USE TRADITIONAL TRENCH
EFFECTIVE LEACHING AREA OF LEACHING TRENCH 3.0 SF/LF
REQUIRED LENGTH = 557.5 SF / 3 SF/LF = 186 LF

MLSS CALCULATION
HYDRAULIC FACTORS
DEPTH TO RESTRICTIVE LAYER = 32"
SLOPE = 5.0%
HYDRAULIC FACTOR (HF) = 32
FLOW FACTOR (FF) = 1.0
PERCOLATION FACTOR (PF) = 1.75 (LESS THAN 10.0 MIN./INCH)
MLSS REQUIRED: 32 x 1.0 x 1.75 = 52.5 LF

PROPOSED SYSTEM
USE 3 ROWS OF 65 LF
LEACHING AREA PROVIDED = 585 SF

RESERVE LEACHING AREA
USE SAME AS PRIMARY SYSTEM

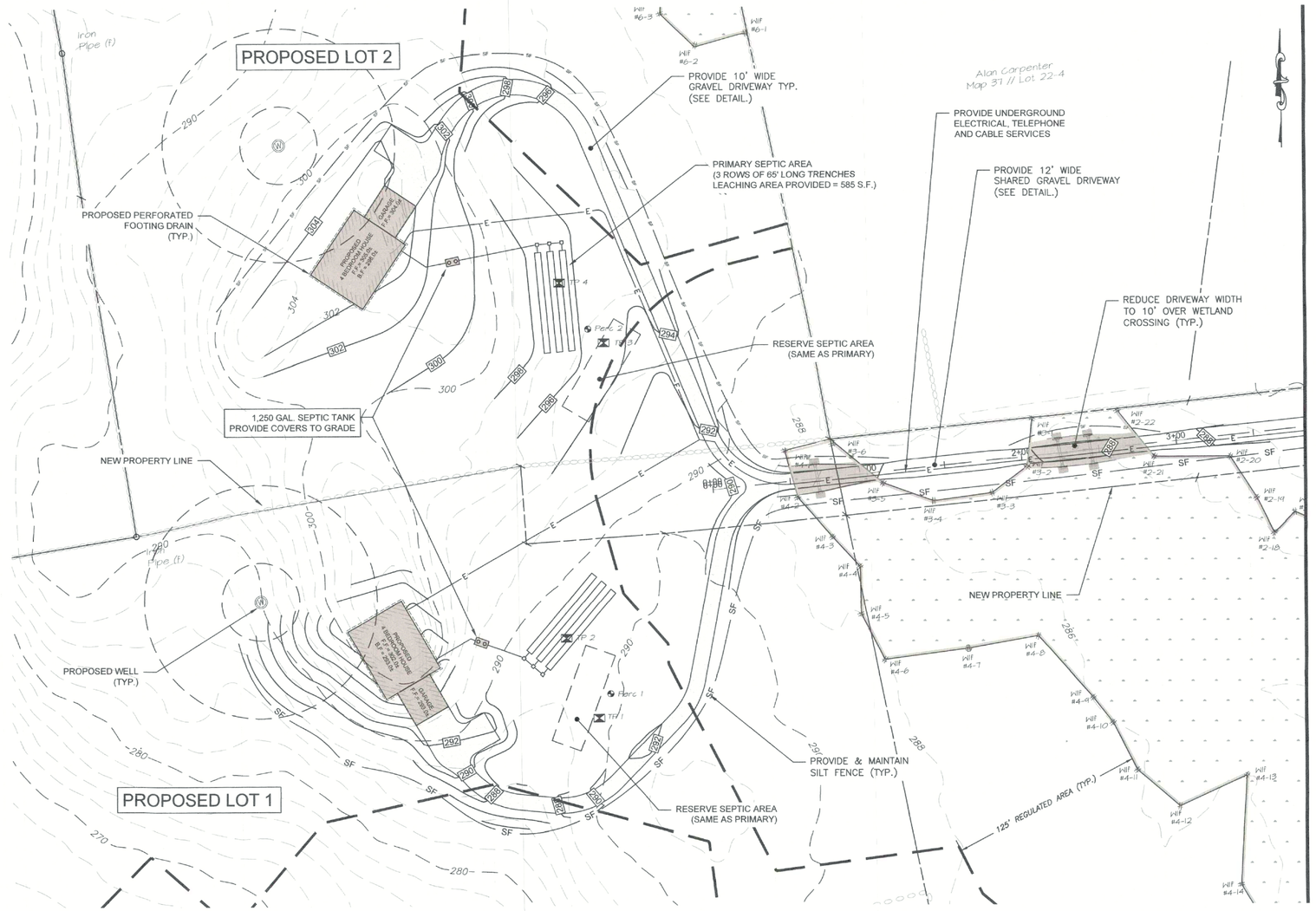
PROPOSED LOT 2
PRIMARY LEACHING AREA
4 BEDROOM RESIDENCE
PERCOLATION RATE: 8.0 MIN./INCH (NDDH FILE #21000307)
LEACHING AREA REQUIRED: 557.5 SF

USE TRADITIONAL TRENCH
EFFECTIVE LEACHING AREA OF LEACHING TRENCH 3.0 SF/LF
REQUIRED LENGTH = 557.5 SF / 3 SF/LF = 186 LF

MLSS CALCULATION
HYDRAULIC FACTORS
DEPTH TO RESTRICTIVE LAYER = 28"
SLOPE = 4.0%
HYDRAULIC FACTOR (HF) = 34
FLOW FACTOR (FF) = 1.0
PERCOLATION FACTOR (PF) = 1.75 (LESS THAN 10.0 MIN./INCH)
MLSS REQUIRED: 34 x 1.0 x 1.75 = 59.5 LF

PROPOSED SYSTEM
USE 3 ROWS OF 65 LF
LEACHING AREA PROVIDED = 585 SF

RESERVE LEACHING AREA
USE SAME AS PRIMARY SYSTEM



PLAN

40' 0 40' 80'
SCALE: 1"=40'

CONTINUE - SEE SHEET 2

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Sheet No. 3 of 4

CLA

EROSION & SEDIMENTATION CONTROL NARRATIVE

1. THE EROSION & SEDIMENTATION CONTROL PLAN AND DETAILS HAVE BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEP.
2. THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL MEASURES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDED SILT FENCE, STONE CHECK DAMS AND/OR OTHER EROSION CONTROL MEASURES AS NEEDED OR DIRECTED BY THE ENGINEER OR TOWN STAFF TO ADEQUATELY PREVENT SEDIMENT TRANSPORT.
3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE.
4. THE CONTRACTOR SHALL INSPECT, REPAIR AND/OR REPLACE EROSION CONTROL MEASURES EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT. SEDIMENT DEPOSITS MUST BE REMOVED WHEN WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.
5. STAKED HAY BALE SILT BARRIERS OR SILT FENCE SHALL BE INSTALLED AROUND ANY TEMPORARY STOCKPILE AREAS. TEMPORARY VEGETATIVE COVER MAY BE REQUIRED (SEE NOTE).
6. INLET SEDIMENTATION CONTROL DEVICES SHALL BE INSTALLED UNDER THE GRATES OF ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION, AND UNDER THE GRATES OF EXISTING CATCH BASINS IN THE CONSTRUCTION AREA.
7. CONTINUOUS DUST CONTROL USING WATER, CALCIUM CHLORIDE OR APPROVED EQUAL SHALL BE PROVIDED FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS, SURFACES OF BACKFILLED TRENCHES AND GRAVELED ROADWAY SURFACES.
8. IF DEWATERING IS NECESSARY DURING ANY TIME OF CONSTRUCTION A CLEAR WATER DISCHARGE SHALL BE PROVIDED AS SHOWN IN THE HAY-BALE BARRIER DEWATERING DETAIL OR ALTERNATE METHOD PROPOSED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
9. ALL DISTURBED AREAS SHALL BE RESTORED PER THE SLOPE STABILIZATION AND PERMANENT VEGETATION DETAILS. ALL DISTURBED AREAS THAT ARE SLOPED LESS THAN THREE HORIZONTAL TO ONE VERTICAL (3:1) SLOPE SHALL BE LOAMED, SEEDED, FERTILIZED AND MULCHED PER THE PERMANENT VEGETATIVE COVER SPECIFICATIONS. EROSION CONTROL MATTING SHALL BE PROVIDED ON ALL DISTURBED AREAS THAT ARE SLOPED MORE THAN THREE HORIZONTAL TO ONE VERTICAL (3:1).
10. IF FINAL SEEDING OF DISTURBED AREAS IS NOT TO BE COMPLETED BEFORE OCTOBER 15, THE CONTRACTOR SHALL PROVIDE TEMPORARY MULCHING (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY PERMANENT SEEDING.
11. WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISHED GRADED SHALL BE COMPLETED PRIOR TO OCTOBER 15.
12. ANY EROSION WHICH OCCURS WITHIN THE DISTURBED AREAS SHALL BE IMMEDIATELY REPAIRED AND STABILIZED. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT SHALL BE RETURNED TO THE SITE. POST SEEDING, INTERCEPTED SEDIMENT, IF ANY, SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE TOWN AND ENGINEER.
13. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL VEGETATION IS RE-ESTABLISHED OR SLOPES ARE STABILIZED AND REMOVAL IS APPROVED BY THE TOWN.
14. UNFORESEEN PROBLEMS WHICH ARE ENCOUNTERED IN THE FIELD SHALL BE SOLVED ACCORDING TO THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEP.
15. THE CONTRACTOR SHALL PROVIDE THE NAME AND EMERGENCY CONTACT INFORMATION FOR THE PROJECT PERSONNEL RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROLS PRIOR TO THE START OF CONSTRUCTION.

NOTE: THE CONTRACTOR SHALL CONTINUALLY STORE THE FOLLOWING MATERIALS ONSITE DURING CONSTRUCTION TO MEET UNEXPECTED EROSION NEEDS

* 100 LF OF SILT FENCE
* 10 HAY BALES
* 10 CY OF WOOD CHIPS OR CRUSHED STONE

TEMPORARY VEGETATIVE COVER

A TEMPORARY SEEDING OF RYE GRASS WILL BE COMPLETED WITHIN 15 DAYS OF THE FORMATION OF STOCKPILES. IF THE SOIL IN THE STOCKPILES HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS IT SHALL BE LOOSENED TO A DEPTH OF 2 INCHES BEFORE THE FERTILIZER, LIME AND SEED IS APPLIED. 10-10-10 FERTILIZER AT A RATE OF 7.5 POUNDS PER 1000 S.F. LIMESTONE AT A RATE OF 90 LBS. PER 1000 S.F. SHALL BE USED. RYE GRASS APPLIED AT A RATE OF 1 LB. PER 1000 S.F. SHALL PROVIDE THE TEMPORARY VEGETATIVE COVER. STRAW FREE FROM WEEDS AND COARSE MATTER SHALL BE USED AT A RATE OF 70-90 LBS. PER 1000 S.F. AS A TEMPORARY MULCH. APPLY MULCH AND DRIVE TRACKED EQUIPMENT UP AND DOWN SLOPE OVER ENTIRE SURFACE SO CLEAT MARKS ARE PARALLEL TO THE CONTOURS.

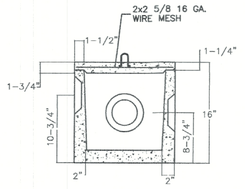
PERMANENT VEGETATIVE COVER

TOPSOIL WILL BE REPLACED ONCE THE EXCAVATIONS HAVE BEEN COMPLETED AND THE SLOPES ARE GRADED AS SHOWN ON THE PLANS. PROVIDE SLOPE PROTECTION AS CALLED FOR ON THE PLANS AND DETAILS. TOPSOIL SHALL BE SPREAD AT A MINIMUM COMPACTED DEPTH OF 4 INCHES. ONCE THE TOPSOIL HAS BEEN SPREAD, ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION WILL BE REMOVED AS WELL AS DEBRIS.

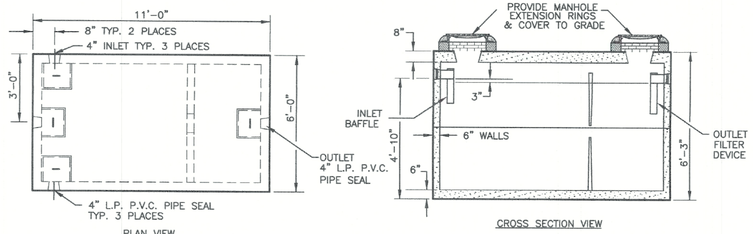
- APPLY AGRICULTURAL GROUND LIMESTONE AT THE RATE OF TWO TONS PER ACRE OR 100 LBS. PER 1000 S.F.
- APPLY 10-10-10 FERTILIZER OR EQUIVALENT AT A RATE OF 300 LBS. PER ACRE OR 7.5 LBS. PER 1000 S.F.
- WORK LIMESTONE AND FERTILIZER INTO THE SOIL TO A DEPTH OF 4 INCHES.
- INSPECT SEEDBED BEFORE SEEDING.
- IF TRAFFIC HAS COMPACTED THE SOIL, RETILL COMPACTED AREAS.
- APPLY THE FOLLOWING GRASS SEED MIX:

TYPICAL SEED MIXTURE

ALL DISTURBED AREAS	LBS./ACRE	LBS./1000 S.F.
KENTUCKY BLUEGRASS	20	0.45
CREEPING RED FESCUE	20	0.45
PERENNIAL RYEGRASS	5	0.10
	45	1.00



STANDARD D-BOX
NOT TO SCALE



1,250 GALLON SEPTIC TANK
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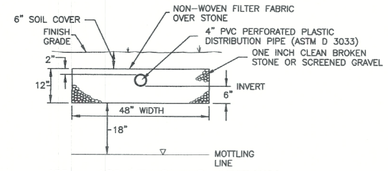
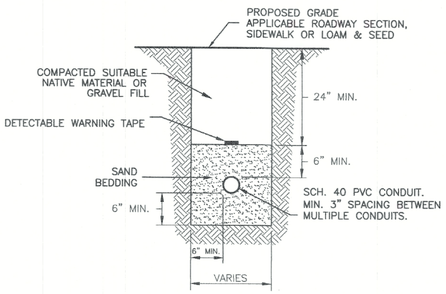


12" x 48" LEACHING TRENCH
NOT TO SCALE



TRENCH DETAIL: ELECTRICAL CONDUIT
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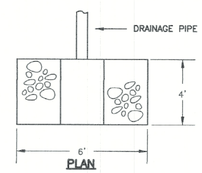
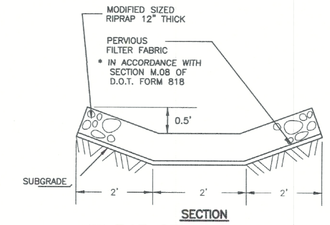


PLAN



SECTION

RIP-RAP SPLASH PAD DETAIL
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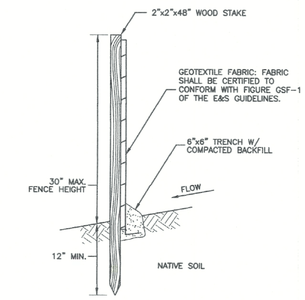

SILT FENCE SECTION
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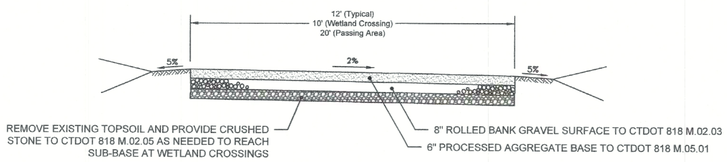
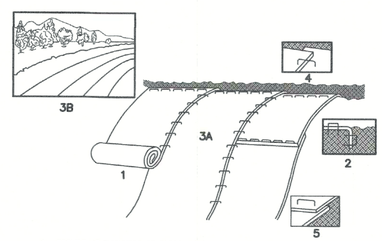


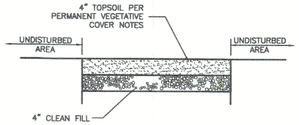
TYPICAL DRIVEWAY CROSS SECTION
NOT TO SCALE



1. PROVIDE 4" THICKNESS OF TOPSOIL OVER CLEAN FILL. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED MIX PER PERMANENT VEGETATIVE COVER NOTES. (SHALL BE PAID FOR AT THE UNIT PRICE FOR LOAM, SEED, FERTILIZE & MULCH)
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP x 6" WIDE TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKET (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.

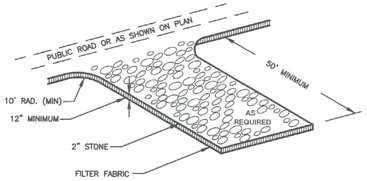
NOTE: ALL PERMANENT EROSION CONTROL BLANKETS ARE TO BE NORTH AMERICAN GREEN SKNET C125BN OR APPROVED EQUAL.

EROSION CONTROL MATTING DETAIL (FOR 3:1 SLOPES OR GREATER)

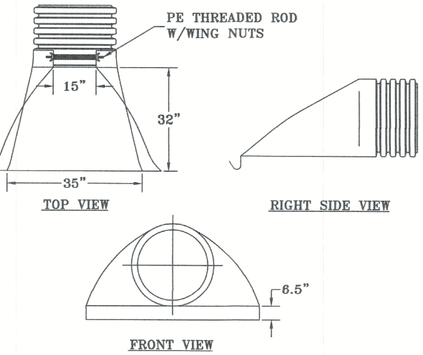


TYPICAL LOAM & SEED SECTION DETAIL (FOR ALL DISTURBED AREAS)

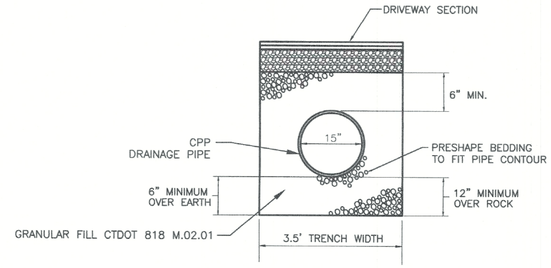
SLOPE STABILIZATION DETAILS
NOT TO SCALE



ANTI-TRACKING PAD DETAIL
NOT TO SCALE



HDPE FLARED END SECTION
NOT TO SCALE



DRAINAGE PIPE BEDDING DETAIL
NOT TO SCALE

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317 Main Street Norwich, CT 06360
(860) 886-1966 Fax (860) 886-9165

A. KAUSCH & SONS, LLC

LOTS 019-37-17, 019-37-20 & 019-37-21
CHURCH ST. SITE DEVELOPMENT
BROOKLYN, CT

NOTES & CONSTRUCTION DETAILS

Project No. CLA-6639
Proj. Engineer R.A.D.
Date: 04/30/21
Sheet No. 4 of 4

CLA

July 22, 2021

Re: Church Street / Pomfret Landing Road
Map 37 Lots 17, 17-1, 20, 21

To Whom It May Concern,

As an abutter of the above mentioned property, you are being notified that an application for a Wetlands Crossing has been submitted to the Inland Wetlands and Watercourses Commission on behalf of A.Kausch and Sons.

A Public Hearing has been scheduled for Tuesday August 10th at 6:00PM.

To view the full application and more information, please contact the Brooklyn Planning Department.

Sincerely,

Paul Archer, L.S.
Archer Surveying

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To: Valerie Gamble
43 Pomfret Landing Rd
Brooklyn CT 06234

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To: Jerry & Debra Sullivan
28 Pomfret landing Rd
Brooklyn CT 06234

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Fr

Archer Surveying LLC
P.O. Box 22
Brooklyn CT 06234

To: Brooklyn Manor LLC
3011 46 Pole Bridge Rd
Woodstock CT 06281

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Archer Surveying LLC
P.O. Box 22
Brooklyn CT 06234

To: James & Meredith Crabtree
375 Church Street
Brooklyn CT 06234

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Archer Surveying LLC
P.O. Box 22
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To: Tracy Elliot
49 Pomfret Landing Road
Brooklyn CT 06234

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To: OJA Thure
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Brooklyn CT 06234

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To: Henry & Sandra Yakey
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To: The State of Connecticut
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Hartford CT 06106

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Brooklyn CT 06234

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P.O. Box 22
Brooklyn CT 06234

To: Vincent Rosseth
30 Pomfret Landing Rd
Brooklyn CT 06234

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Archer Surveying LLC
P.O. Box 22
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To: Eric & Cory Strandson
3 Whitebrook Drive
Brooklyn CT 06234

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To: Drew & Carla Mizak
15 Whitebrook Drive
Brooklyn CT 06234

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Brooklyn CT 06234

To: James & Deborah Warren
9 Whitebrook Drive
Brooklyn CT 06234

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P.O. Box 22
Brooklyn CT 06234

To: Michael Podzaline & Erin King
27 White Brook Drive
Brooklyn CT 06234

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To: Alan & Heidi Carpenter
23 White Brook Drive
Brooklyn CT 06234

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Abutters of A. Kausch & Sons (Map 37 / Lots 17, 17-1, 20 & 21)

Eric & Cory Strandson
3 White Brook Drive
Brooklyn CT 06234
37/22-1

James & Deborah Warren
9 White Brook Drive
Brooklyn CT 06234
37/22-2

Drew & Carla Mizak
15 White Brook Drive
Brooklyn CT 06234
37/22-3

Alan & Heidi Carpenter
23 White Brook Drive
Brooklyn CT 06234
37/22-4

Michael Podzaline &
Erin King
27 White Brook Drive
Brooklyn CT 06234
37/22-5

OJA Thure
333 Woods Hill Road
Pomfret CT
47/D/5.00

Henry & Sandra Yakey
353 Searles Road
Pomfret CT
47/D/6.00

Henry & Sandra Yakey
64 Pomfret Landing Road
Brooklyn CT 06234
37/12

The State of Connecticut
Pomfret Landing Road
Brooklyn CT 06234
37/14
450 Capitol Ave
Hartford, CT 06106

Douglas & Susan Clark
42 Pomfret Landing Road
Brooklyn CT 06234
37/18

Vincent Rossetti
36 Pomfret Landing Road
Brooklyn CT 06234
37/19

Jerry & Debra Sullivan
28 Pomfret Landing Road
Brooklyn CT 0624
36/44

Brooklyn Manor LLC
371 Church Street
Brooklyn CT 06234
36/54
Owner: 46 Pole Bridge Road
Woodstock, CT 06281

James & Meredith Crabtree
375 Church Street
Brooklyn CT 06234

Tracy Elliot
46 Pomfret Landing Road
Brooklyn, CT 06234

Carl & Patricia Maiorino
426 Church Street
Brooklyn, CT 06234

Sean & Tina Whiteley
412 Church Street
Brooklyn CT 06234

Joseph & Stephanie Pelletier
420 Church Street
Brooklyn CT 06234

Deborah Ethier
6 Meadowbrook Drive
Brooklyn, CT 06234

Valerie Gamble
43 Pomfret Landing Road
Brooklyn, CT 06234

LEGEND

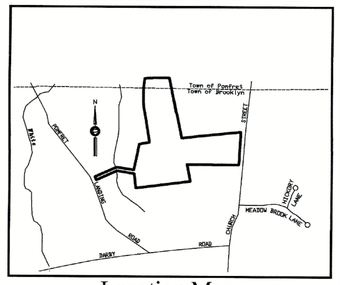
- PROPERTY LINE
- PROPOSED PROPERTY LINE
- EASEMENT
- STONEWALL
- STONEWALL REMAINS
- EXISTING INDEX CONTOURS
- EXISTING CONTOURS
- WETLANDS FLAG
- BUILDING SETBACK
- SILT FENCE
- IRON PIN
- DRILL HOLE
- MONUMENT
- PROPERTY POINT
- UTILITY POLE

Connecticut Grid

I have reviewed the inland-wetlands shown on this plan and they appear to be substantially the same as those which I delineated in the field.

Robert C Russo

Certified Soil Scientist



Location Map

SCALE

1000 0 1000

1" = 1000 FT

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, 1996

- This Survey conforms to a Class "A-2" Horizontal Accuracy
  Class "T-2" Vertical Accuracy
- Survey Type: Property Survey
- Boundary Determination: Resurvey
- Intent: Depict Existing Conditions with Respect to Property Lines

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

3. Parcels shown as 7.00 , Block D on Assessors Tax Map 47 of the Pomfret Assessors Office

4. Wetlands were flagged in the field by Robert Russo and field located by Archer Surveying LLC. Total Area of Wetlands flagged and located: 278,287 +/- Sq.Ft, 6.39 +/- Acres.

5. Property is Located in the RA Zone:
   Area: 87,120 Sq.Ft. // 2.0 Acres
   Frontage: 150'
   Front/Rear Setback: 50'
   Side Setback: 40'

6. There is no proposed regulated activities within 500' of the boundary of an adjoining municipality.

7. 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.

Map References

1. Town of Brooklyn, Plan showing land acquired from Annie Weldon by The State of Connecticut, Brooklyn - Pomfret Landing Rd, Scale: 1"=40', Date: September 1935

2. Plan of Brooklyn Manor, Darby Road and New Kimball Road, Brooklyn, Connecticut, Scale: 1"=40', Date: April 1980, Prepared by Kieltyka, Woodis & Pike

3. Subdivision Map "White Brook Estates" Prepared for Eric Lehto, Church Street, Brooklyn, Connecticut, Date: June 2004, Scale: 1"=50', Prepared by Provost and Rovero Inc.

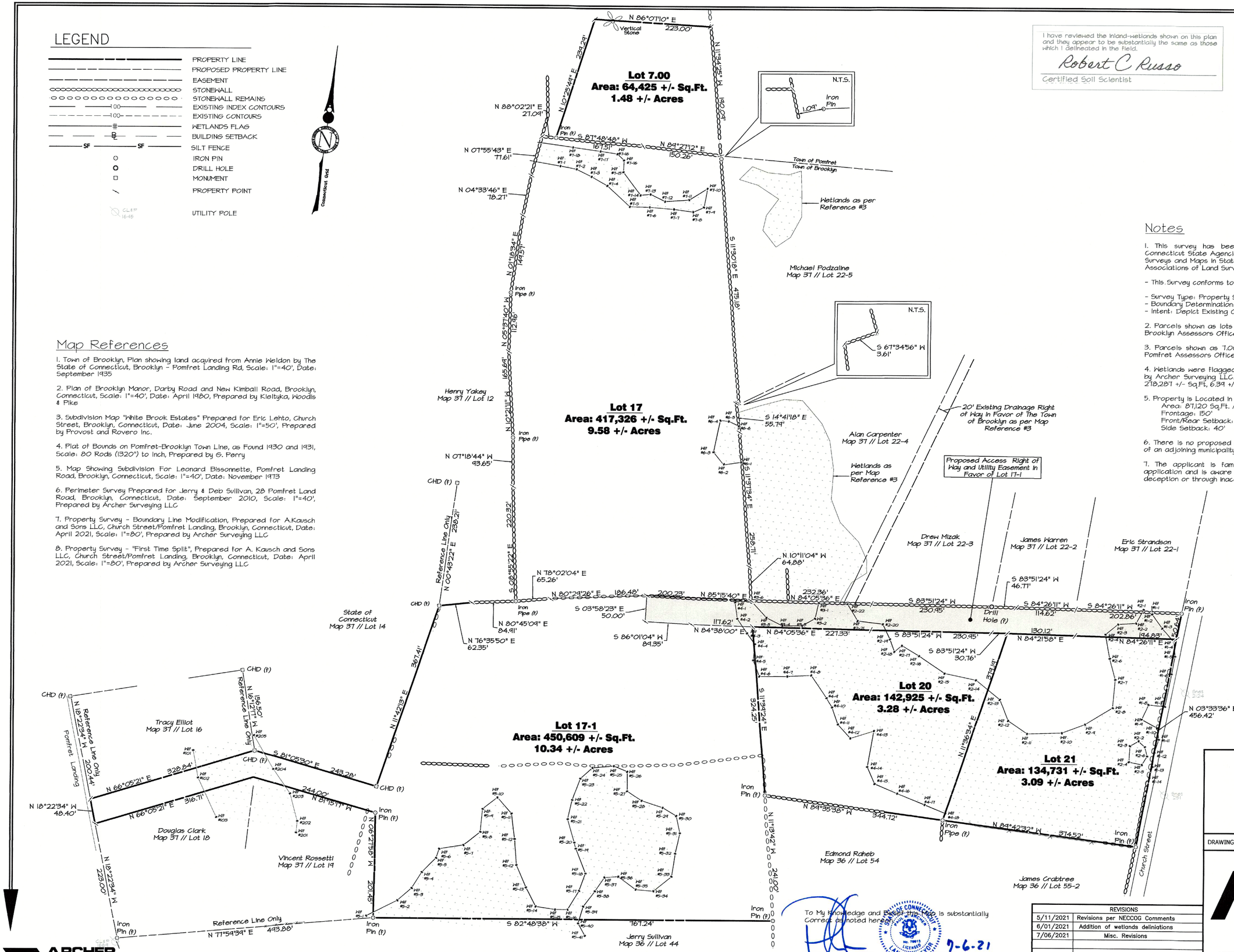
4. Plat of Bounds on Pomfret-Brooklyn Town Line, as Found 1930 and 1931, Scale: 80 Rods (1320") to Inch, Prepared by G. Perry

5. Map Showing Subdivision For Leonard Bissonnette, Pomfret Landing Road, Brooklyn, Connecticut, Scale: 1"=40', Date: November 1973

6. Perimeter Survey Prepared for Jerry & Deb Sullivan, 28 Pomfret Land Road, Brooklyn, Connecticut, Date: September 2010, Scale: 1"=40', Prepared by Archer Surveying LLC

7. Property Survey - Boundary Line Modification, Prepared for A.Kausch and Sons LLC, Church Street/Pomfret Landing, Brooklyn, Connecticut, Date: April 2021, Scale: 1"=80', Prepared by Archer Surveying LLC

8. Property Survey - "First Time Split", Prepared for A. Kausch and Sons LLC, Church Street/Pomfret Landing, Brooklyn, Connecticut, Date: April 2021, Scale: 1"=80', Prepared by Archer Surveying LLC



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

Paul M. Archer LLS #70013 — Date 7-6-21

STATE OF CONNECTICUT · PAUL M. ARCHER · No. 70013 · LICENSED · LAND SURVEYOR

REVISIONS	
5/11/2021	Revisions per NECCOG Comments
6/01/2021	Addition of wetlands deliniations
7/06/2021	Misc. Revisions

Property Survey

Prepared For:

A. Kausch & Sons LLC

Church Street & Pomfret Landing

Brooklyn, Connecticut

DRAWING SCALE: 1"=80' (0 — 80 — 160)

ARCHER Surveying LLC

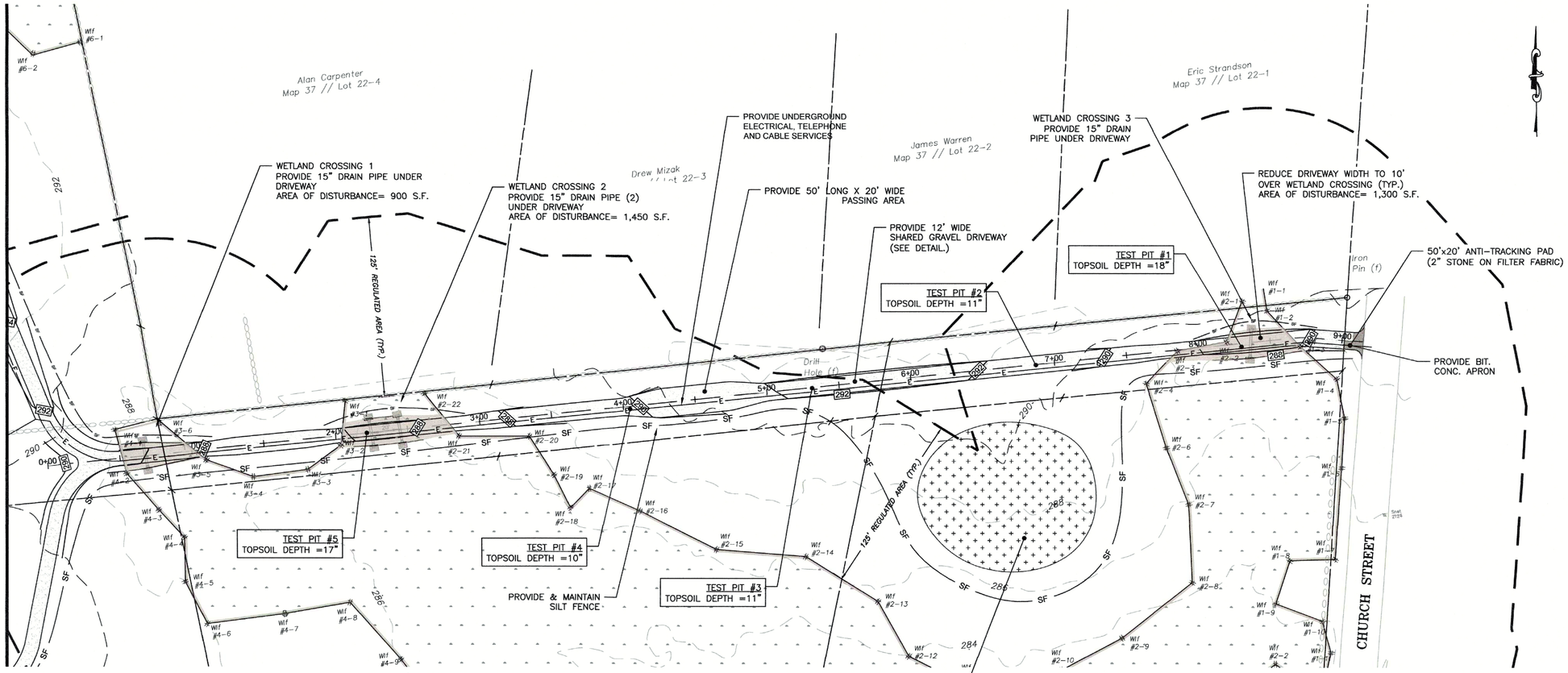
18 Providence Road, Brooklyn, CT

(860) 779-2240

Sheet No.	1 OF 4	Project No.	1895	Date:	April 10, 2021

ARCHER Surveying LLC

CONTINUE - SEE SHEET 3



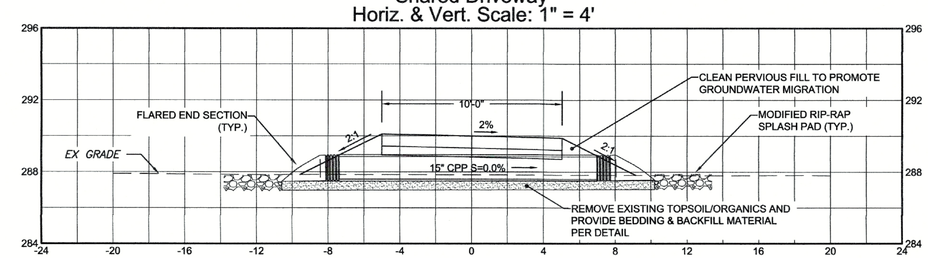
PLAN

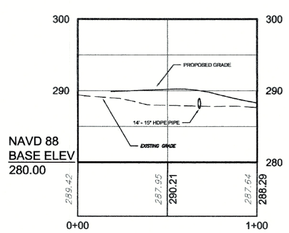
40' 0 40' 80'

SCALE: 1"=40'

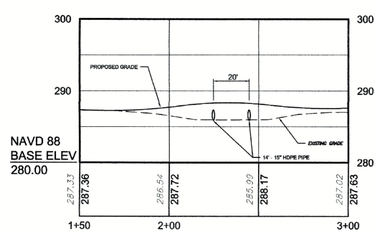
NOTE:
TEST HOLES IN PROPOSED DRIVEWAY WERE OBSERVED ON 5-18-21 AT THE APPROXIMATE LOCATIONS SHOWN ABOVE. INDICATIONS OF SEASONAL HIGH GROUNDWATER DEPTH WAS OBSERVED BETWEEN 0-16" IN WETLAND AREAS, AND 16" AND GREATER IN UPLAND AREAS.

Wetland Crossing (Typical)
Shared Driveway
Horiz. & Vert. Scale: 1" = 4'

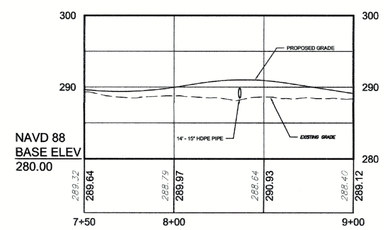




SHARED DRIVEWAY Wetland Crossing 1
STA 0+00 TO STA 1+00
Horiz. Scale= 1"= 40'
Vert. Scale= 1"= 10'



SHARED DRIVEWAY Wetland Crossing 2
STA 1+50 TO STA 3+00
Horiz. Scale= 1"= 40'
Vert. Scale= 1"= 10'



SHARED DRIVEWAY Wetland Crossing 3
STA 7+50 TO STA 9+00
Horiz. Scale= 1"= 40'
Vert. Scale= 1"= 10'

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

No.	DATE	REVISION
3	07/06/21	MISCELLANEOUS REVISIONS
2	06/30/21	VARIOUS MODIFICATIONS
1	05/10/21	VARIOUS MODIFICATIONS

CLA Engineers, Inc.
CIVIL · STRUCTURAL · SURVEYING
317 Main Street Norwich, CT 06360
(860) 886-1966 Fax (860) 886-9165

STATE OF CONNECTICUT
ROBERT A. DUBOIS
LICENSED
PROFESSIONAL ENGINEER

A. KAUSCH & SONS, LLC

LOTS 019-37-17, 019-37-20 & 019-37-21
CHURCH ST. SITE DEVELOPMENT
BROOKLYN, CT

GRADING & SITE DESIGN

Project No. CLA-6639
Proj. Engineer R.A.D.
Date: 04/30/21
Sheet No. 2 of 4

CLA

SELECT FILL SPECIFICATION

SELECT FILL PLACED WITHIN AND ADJACENT TO LEACHING SYSTEM AREAS SHALL BE COMPRISED OF CLEAN SAND, OR SAND AND GRAVEL, FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES. THE SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS PER THE CONNECTICUT PUBLIC HEALTH CODE FOR USE WITHIN THE LEACHING AREA:

1. THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THE THREE (3) INCH SLEEVE.
2. UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SLEEVE (THIS IS THE GRAVEL PORTION OF THE SAMPLE).
3. THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE SIEVE ANALYSIS STARTED,
4. THE REMAINING SAMPLE SHALL MEET THE FOLLOWING CRITERIA:

SIEVE SIZE	PERCENT PASSING WET SIEVE	DRY SIEVE
#4	100	100
#10	70–100	70–100
#40	10–50*	10–75
#100	0–20	0–5
#200	0–5	0–2.5

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

SEPTIC NOTES

1. PROPOSED SEPTIC SYSTEM TO BE STAKED IN THE FIELD BY A LAND SURVEYOR LICENSED IN THE STATE OF CONNECTICUT.
2. A BENCHMARK SHALL BE SET WITHIN 10'–15' OF THE PROPOSED SEPTIC SYSTEM PRIOR TO CONSTRUCTION.
3. ALL WORK AND MATERIAL (SEPTIC TANK, DISTRIBUTION BOX, PIPE) SHALL CONFORM TO THE CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEM.
4. SEWER LINE FROM FOUNDATION WALL TO SEPTIC TANK SHALL BE 4" SCHEDULE 40 PVC – ASTM D 1785 AND JOINTS PER HEALTH DEPT. CODE. PIPE FROM SEPTIC TANK TO DISTRIBUTION LINES SHALL BE 4" SOLID PVC CONFORMING TO STMD–3034 AND SDR–35.
5. SYSTEMS SHALL BE SET LEVEL FOR ENTIRE LENGTH AND HAVE A CENTER TO CENTER SPACING AS CALLED FOR IN THE CONNECTICUT PUBLIC HEALTH CODE. THERE ARE PRESENTLY NO KNOWN WATER WELLS WITHIN 75' OF THE PROPOSED SEPTIC SYSTEMS.
6. CLEAR AND GRUB THE AREA WHERE THE SEPTIC SYSTEMS AND HOUSES ARE TO BE CONSTRUCTED. ALL TOPSOIL IS TO BE STRIPPED AND STOCKPILED FOR FUTURE USE.
7. ALL FILL MATERIAL SHALL BE CLEAN EARTH FREE OF STUMPS, ORGANICS, CONSTRUCTION DEBRIS AND TOPSOIL.
8. TOPSOIL SHALL BE RE–APPLIED OVER ALL FILL AREAS AND ALL DISTURBED AREAS TO PROVIDE A MINIMUM DEPTH OF FOUR INCHES IN ACCORDANCE WITH THE SLOPE STABILIZATION DETAILS..

DEEP TEST PIT DATA / SOIL DESCRIPTIONS

PERFORMED BY:Donovan Moe

WITNESSED BY:NORTHEAST DISTRICT DEPARTMENT OF HEALTH DATE: 03/30/2021

TEST PIT: 1		TEST PIT: 2	
0" - 10"	Topsoil / Organics	0" - 10"	Topsoil / Organics
10" - 16"	Orange Brown Fine Sand Loam	10" - 27"	Dark Brown Fine Sand
16" - 34"	Tan Compact Sand Loam	27" - 48"	Grey Compact Sand
34" - 78"	Grey Sand & Gravel	48" - 70"	Sand & Gravel
MOTTLES:	36"	MOTTLES:	32"
GROUNDWATER:	66"	GROUNDWATER:	62"
LEDGE:	NO	LEDGE:	NO
ROOTS:	46"	ROOTS:	32"
RESTRICTIVE:	NO	RESTRICTIVE:	NO

TEST PIT: 3		TEST PIT: 4	
0" - 12"	Topsoil / Organics	0" - 10"	Topsoil / Organics
12" - 30"	Tan Orange Fine Sand Loam	10" - 24"	Tan Orange Fine Sand Loam
30" - 48"	Grey Sand Layer	24" - 80"	Saturated Grey Sand & Gravel
48" - 72"	Sand & Gravel		
MOTTLES:	30"	MOTTLES:	28"
GROUNDWATER:	65"	GROUNDWATER:	74"
LEDGE:	NO	LEDGE:	NO
ROOTS:	NO	ROOTS:	30"
RESTRICTIVE:	NO	RESTRICTIVE:	NO

PERCOLATION DATA

PERC 1 - DEPTH 23"

TIME	DROP (INCHES)
11:10	6.0
11:12	7.0
11:14	8.0
11:16	8.5
11:18	9.25
11:20	9.5
11:22	10.0
11:25	11.0
11:28	11.5
11:31	12.0

PERCOLATION RATE > 6.0 MIN./IN.

NOTES:
PERCOLATION TEST PERFORMED ON 3/30/2021
PERFORMED BY Donovan Moe

PERCOLATION DATA

PERC 2 - DEPTH 17"

TIME	DROP (INCHES)
11:04	6.25
11:10	8.25
11:16	9.75
11:22	10.625
11:34	12.125
11:46	13.125
11:58	14.625

PERCOLATION RATE > 8.0 MIN./IN.

NOTES:
PERCOLATION TEST PERFORMED ON 3/30/2021
PERFORMED BY Donovan Moe

CONCEPT SEPTIC SYSTEM DESIGN

PROPOSED LOT 1
PRIMARY LEACHING AREA
4 BEDROOM RESIDENCE
PERCOLATION RATE: 6.0 MIN./INCH (NDDH FILE #21000307)
LEACHING AREA REQUIRED: 557.5 SF

USE TRADITIONAL TRENCH
EFFECTIVE LEACHING AREA OF LEACHING TRENCH 3.0 SF/LF
REQUIRED LENGTH = 557.5 SF / 3 SF/LF = 186 LF

MLSS CALCULATION
HYDRAULIC FACTORS
DEPTH TO RESTRICTIVE LAYER = 32"
SLOPE = 5.0%
HYDRAULIC FACTOR (HF) = 32
FLOW FACTOR (FF) = 1.0
PERCOLATION FACTOR (PF) = 1.75 (LESS THAN 10.0 MIN./INCH)
MLSS REQUIRED: 32 x 1.0 x 1.75 = 52.5 LF

PROPOSED SYSTEM
USE 3 ROWS OF 65 LF
LEACHING AREA PROVIDED = 585 SF

RESERVE LEACHING AREA
USE SAME AS PRIMARY SYSTEM

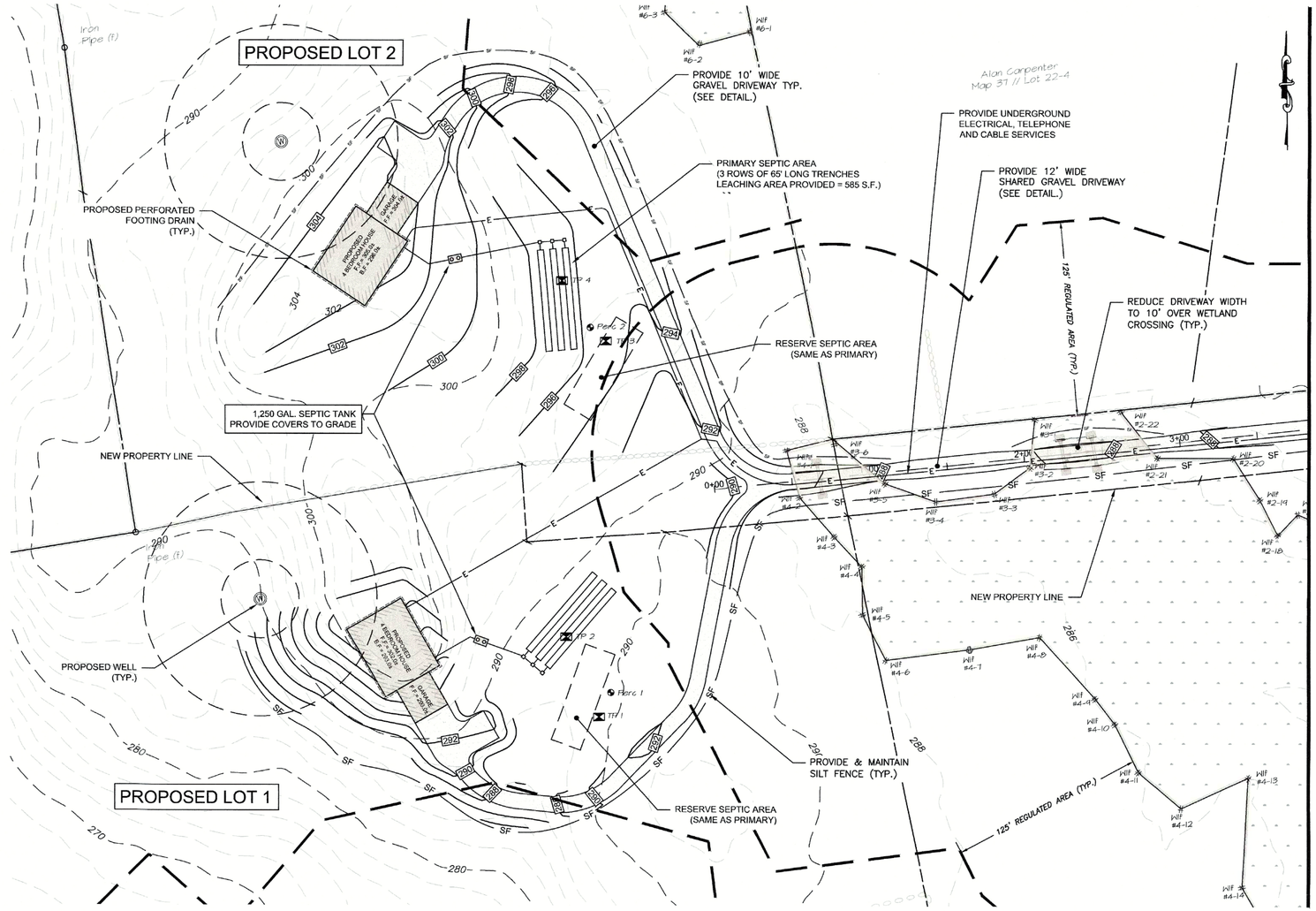
PROPOSED LOT 2
PRIMARY LEACHING AREA
4 BEDROOM RESIDENCE
PERCOLATION RATE: 8.0 MIN./INCH (NDDH FILE #21000307)
LEACHING AREA REQUIRED: 557.5 SF

USE TRADITIONAL TRENCH
EFFECTIVE LEACHING AREA OF LEACHING TRENCH 3.0 SF/LF
REQUIRED LENGTH = 557.5 SF / 3 SF/LF = 186 LF

MLSS CALCULATION
HYDRAULIC FACTORS
DEPTH TO RESTRICTIVE LAYER = 28"
SLOPE = 4.0%
HYDRAULIC FACTOR (HF) = 34
FLOW FACTOR (FF) = 1.0
PERCOLATION FACTOR (PF) = 1.75 (LESS THAN 10.0 MIN./INCH)
MLSS REQUIRED: 34 x 1.0 x 1.75 = 59.5 LF

PROPOSED SYSTEM
USE 3 ROWS OF 65 LF
LEACHING AREA PROVIDED = 585 SF

RESERVE LEACHING AREA
USE SAME AS PRIMARY SYSTEM



PLAN

40' 0 40' 80'
SCALE: 1"=40'

CONTINUE - SEE SHEET 2

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

No.	DATE	REVISION
2	06/30/21	VARIOUS MODIFICATIONS
1	05/10/21	VARIOUS MODIFICATIONS

STATE OF CONNECTICUT ROBERT A. DEL GIUDICE 18730 LICENSED PROFESSIONAL ENGINEER

CLA Engineers, Inc.
CIVIL · STRUCTURAL · SURVEYING
317 Main Street Norwich, CT 06360
(860) 886-1966 Fax (860) 886-9165

A. KAUSCH & SONS, LLC

LOTS 019-37-17, 019-37-20 & 019-37-21
CHURCH ST. SITE DEVELOPMENT
BROOKLYN, CT

GRADING & SITE DESIGN

Project No. CLA-6639
Proj. Engineer R.A.D.
Date: 04/30/21
Sheet No. 3 of 4

CLA

EROSION & SEDIMENTATION CONTROL NARRATIVE

1. THE EROSION & SEDIMENTATION CONTROL PLAN AND DETAILS HAVE BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEP.
2. THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL MEASURES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDED SILT FENCE, STONE CHECK DAMS AND/OR OTHER EROSION CONTROL MEASURES AS NEEDED OR DIRECTED BY THE ENGINEER OR TOWN STAFF TO ADEQUATELY PREVENT SEDIMENT TRANSPORT.
3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE.
4. THE CONTRACTOR SHALL INSPECT, REPAIR AND/OR REPLACE EROSION CONTROL MEASURES EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT. SEDIMENT DEPOSITS MUST BE REMOVED WHEN WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.
5. STAKED HAY BALE SILT BARRIERS OR SILT FENCE SHALL BE INSTALLED AROUND ANY TEMPORARY STOCKPILE AREAS. TEMPORARY VEGETATIVE COVER MAY BE REQUIRED (SEE NOTE).
6. INLET SEDIMENTATION CONTROL DEVICES SHALL BE INSTALLED UNDER THE GRATES OF ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION, AND UNDER THE GRATES OF EXISTING CATCH BASINS IN THE CONSTRUCTION AREA.
7. CONTINUOUS DUST CONTROL USING WATER, CALCIUM CHLORIDE OR APPROVED EQUAL SHALL BE PROVIDED FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS, SURFACES OF BACKFILLED TRENCHES AND GRAVELED ROADWAY SURFACES.
8. IF DEWATERING IS NECESSARY DURING ANY TIME OF CONSTRUCTION A CLEAR WATER DISCHARGE SHALL BE PROVIDED AS SHOWN IN THE HAY-BALE BARRIER DEWATERING DETAIL OR ALTERNATE METHOD PROPOSED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
9. ALL DISTURBED AREAS SHALL BE RESTORED PER THE SLOPE STABILIZATION AND PERMANENT VEGETATION DETAILS. ALL DISTURBED AREAS THAT ARE SLOPED LESS THAN THREE HORIZONTAL TO ONE VERTICAL (3:1) SLOPE SHALL BE LOAMED, SEEDED, FERTILIZED AND MULCHED PER THE PERMANENT VEGETATIVE COVER SPECIFICATIONS. EROSION CONTROL MATTING SHALL BE PROVIDED ON ALL DISTURBED AREAS THAT ARE SLOPED MORE THAN THREE HORIZONTAL TO ONE VERTICAL (3:1).
10. IF FINAL SEEDING OF DISTURBED AREAS IS NOT TO BE COMPLETED BEFORE OCTOBER 15, THE CONTRACTOR SHALL PROVIDE TEMPORARY MULCHING (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY PERMANENT SEEDING.
11. WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISHED GRADED SHALL BE COMPLETED PRIOR TO OCTOBER 15.
12. ANY EROSION WHICH OCCURS WITHIN THE DISTURBED AREAS SHALL BE IMMEDIATELY REPAIRED AND STABILIZED. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT SHALL BE RETURNED TO THE SITE. POST SEEDING, INTERCEPTED SEDIMENT, IF ANY, SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE TOWN AND ENGINEER.
13. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL VEGETATION IS RE-ESTABLISHED OR SLOPES ARE STABILIZED AND REMOVAL IS APPROVED BY THE TOWN.
14. UNFORESEEN PROBLEMS WHICH ARE ENCOUNTERED IN THE FIELD SHALL BE SOLVED ACCORDING TO THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEP.
15. THE CONTRACTOR SHALL PROVIDE THE NAME AND EMERGENCY CONTACT INFORMATION FOR THE PROJECT PERSONNEL RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROLS PRIOR TO THE START OF CONSTRUCTION.

NOTE: THE CONTRACTOR SHALL CONTINUALLY STORE THE FOLLOWING MATERIALS ONSITE DURING CONSTRUCTION TO MEET UNEXPECTED EROSION NEEDS

* 100 LF OF SILT FENCE
* 10 HAY BALES
* 10 CY OF WOOD CHIPS OR CRUSHED STONE

TEMPORARY VEGETATIVE COVER

A TEMPORARY SEEDING OF RYE GRASS WILL BE COMPLETED WITHIN 15 DAYS OF THE FORMATION OF STOCKPILES. IF THE SOIL IN THE STOCKPILES HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS IT SHALL BE LOOSENED TO A DEPTH OF 2 INCHES BEFORE THE FERTILIZER, LIME AND SEED IS APPLIED. 10-10-10 FERTILIZER AT A RATE OF 7.5 POUNDS PER 1000 S.F. LIMESTONE AT A RATE OF 90 LBS. PER 1000 S.F. SHALL BE USED. RYE GRASS APPLIED AT A RATE OF 1 LB. PER 1000 S.F. SHALL PROVIDE THE TEMPORARY VEGETATIVE COVER. STRAW FREE FROM WEEDS AND COARSE MATTER SHALL BE USED AT A RATE OF 70-90 LBS. PER 1000 S.F. AS A TEMPORARY MULCH. APPLY MULCH AND DRIVE TRACKED EQUIPMENT UP AND DOWN SLOPE OVER ENTIRE SURFACE SO CLEAT MARKS ARE PARALLEL TO THE CONTOURS.

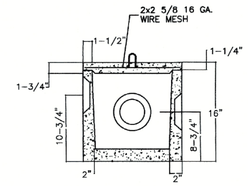
PERMANENT VEGETATIVE COVER

TOPSOIL WILL BE REPLACED ONCE THE EXCAVATIONS HAVE BEEN COMPLETED AND THE SLOPES ARE GRADED AS SHOWN ON THE PLANS. PROVIDE SLOPE PROTECTION AS CALLED FOR ON THE PLANS AND DETAILS. TOPSOIL SHALL BE SPREAD AT A MINIMUM COMPACTED DEPTH OF 4 INCHES. ONCE THE TOPSOIL HAS BEEN SPREAD, ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION WILL BE REMOVED AS WELL AS DEBRIS.

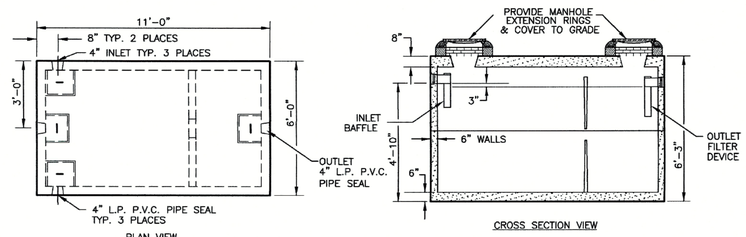
- APPLY AGRICULTURAL GROUND LIMESTONE AT THE RATE OF TWO TONS PER ACRE OR 100 LBS. PER 1000 S.F.
- APPLY 10-10-10 FERTILIZER OR EQUIVALENT AT A RATE OF 300 LBS. PER ACRE OR 7.5 LBS. PER 1000 S.F.
- WORK LIMESTONE AND FERTILIZER INTO THE SOIL TO A DEPTH OF 4 INCHES.
- INSPECT SEEDBED BEFORE SEEDING.
- IF TRAFFIC HAS COMPACTED THE SOIL, RETILL COMPACTED AREAS.
- APPLY THE FOLLOWING GRASS SEED MIX:

TYPICAL SEED MIXTURE

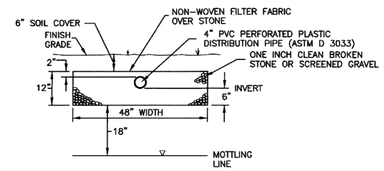
ALL DISTURBED AREAS	LBS./ACRE	LBS./1000 S.F.
KENTUCKY BLUEGRASS	20	0.45
CREEPING RED FESCUE	20	0.45
PERENNIAL RYEGRASS	5	0.10
	45	1.00



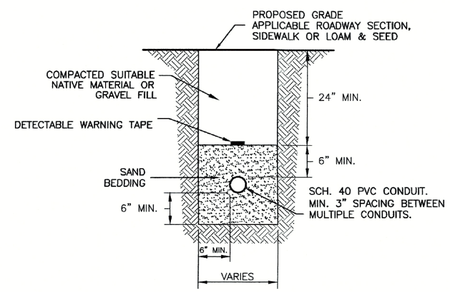
STANDARD D-BOX
NOT TO SCALE



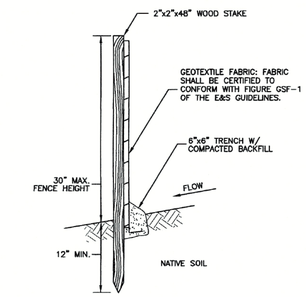
1,250 GALLON SEPTIC TANK
NOT TO SCALE



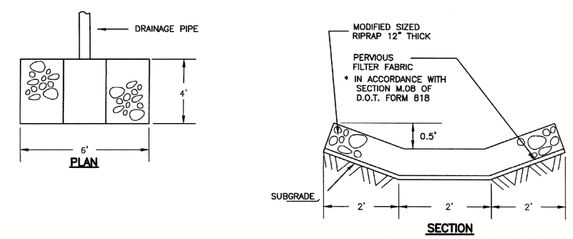
12" x 48" LEACHING TRENCH
NOT TO SCALE



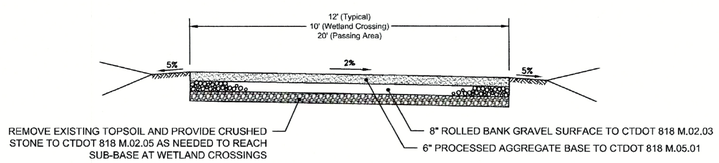
TRENCH DETAIL: ELECTRICAL CONDUIT
NOT TO SCALE



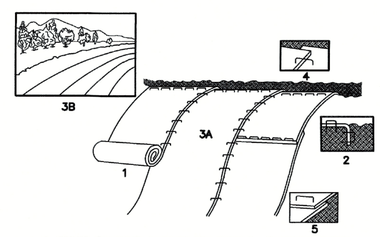
SILT FENCE SECTION
NOT TO SCALE



RIP-RAP SPLASH PAD DETAIL
NOT TO SCALE



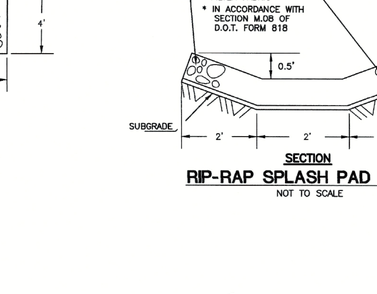
TYPICAL DRIVEWAY CROSS SECTION
NOT TO SCALE



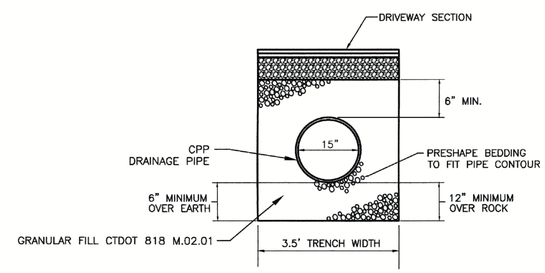
1. PROVIDE 4" THICKNESS OF TOPSOIL OVER CLEAN FILL. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED MIX PER PERMANENT VEGETATIVE COVER NOTES. (SHALL BE PAID FOR AT THE UNIT PRICE FOR LOAM, SEED, FERTILIZE & MULCH)
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP x 6" WIDE TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKET (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.

NOTE: ALL PERMANENT EROSION CONTROL BLANKETS ARE TO BE NORTH AMERICAN GREEN BIONET C125BN OR APPROVED EQUAL.

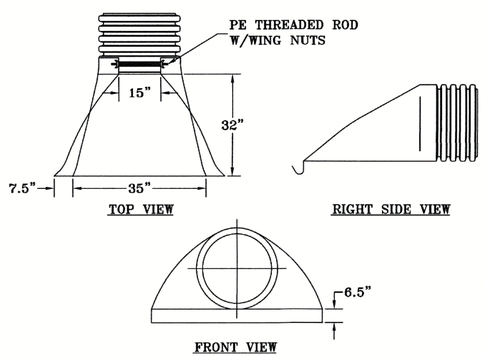
EROSION CONTROL MATTING DETAIL
(FOR 3:1 SLOPES OR GREATER)



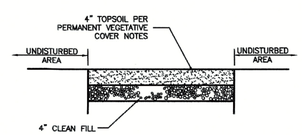
ANTI-TRACKING PAD DETAIL
NOT TO SCALE



DRAINAGE PIPE BEDDING DETAIL
NOT TO SCALE



HDPE FLARED END SECTION
NOT TO SCALE



TYPICAL LOAM & SEED SECTION DETAIL
(FOR ALL DISTURBED AREAS)

SLOPE STABILIZATION DETAILS
NOT TO SCALE

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

No.	DATE	REVISION
1	05/10/21	VARIOUS MODIFICATIONS

CLA Engineers, Inc.
CIVIL · STRUCTURAL · SURVEYING
317 Main Street Norwich, CT 06360
(860) 886-1966 Fax (860) 886-9165

A. KAUSCH & SONS, LLC

LOTS 019-37-17, 019-37-20 & 019-37-21
CHURCH ST. SITE DEVELOPMENT
BROOKLYN, CT

NOTES & CONSTRUCTION DETAILS

Project No. CLA-6639
Proj. Engineer R.A.D.
Date: 04/30/21
Sheet No. 4 of 4

CLA

NORTHEASTERN CONNECTICUT COUNCIL OF GOVERNMENTS

ENGINEERING PLAN REVIEW
PERTAINING TO A
3-LOT SUBDIVISION
(ASSESSOR'S MAP/LOT NOS. 019-37-17, 019-37-20 & 019-37-21)
CHURCH STREET
BROOKLYN, CT

(May 7, 2021)

The comments contained herein pertain to my review of plans for a proposed 3-lot residential subdivision located on Church Street in Brooklyn, Connecticut, consisting of four (4) sheets, prepared for A. Kausch & Sons by Archer Surveying, LLC and CLA Engineers, dated April 10, 2021 and April 30, 2021, respectively. Also reviewed were the CLA Drainage Report of April 2021 and the CLA Wetlands Report, dated May 3, 2021. Comments pertain to both wetlands and planning and zoning concerns.

(Comments in black ink are the Regional Engineer's May 7, 2021 review comments.)
(Comments in red ink are the Regional Engineer's June 24, 2021 review comments for the revised plans with revision date of May 10, 2021.)

Sheet 1 of 4 – Property Survey Plan

1. Location Map is missing a north arrow.

   Comment has been incorporated into the plan.

2. Note 1 under "Notes" does not include the accuracy of the topographic elevations shown on the plan. The accuracy needs to be included as part of this note.

   Comment has been incorporated into the plan.

3. Zoning criteria is missing on this plan.

   Comment has been incorporated into the plan.

4. A "property line symbol" covers some stone wall symbols but not others in the lots of interest. Why is this so?

   Comment has been incorporated into the plan.

5. Wetland delineation certification block and signature of the certified Connecticut soil scientist is missing on the plan.

   Comment has been incorporated into the plan.

6. A silt fence, compost/silt sock and/or hay bale sediment control symbol needs to be included in the "Legend."

   A symbol has been added to the plan, however it does not match the symbol used on Sheets 3 & 4 and needs to be corrected.

Sheets 2 & 3 of 4 – Grading & Site Design Plan

1. The area of disturbed wetlands is not noted on the plan (driveway crossing and underground utilities installation). The areas of disturbance need to be noted on the plan.

   Comment has been incorporated in the plan.

2. Underground utilities will disturb wetlands. The route of the utilities should be shown on the plan.

   Underground utilities are not shown on the plan and must be added.

3. Different symbols are used for "Silt Fence." Use one symbol only and make changes to the plan to reflect this.

   This discrepancy requires changing the symbol in the Legend on Sheet 1 of 4.

4. The drainage report for this project was also reviewed. It states that Wetlands Crossing 2 needs three (3) 15" pipes. The site plan and wetland crossing profile only show two (2) pipes. Therefore, an additional pipe needs to be added to the plan and profile along with distances to be maintained between the pipes.

   Revised drainage calculations demonstrate the adequacy of two pipes and three pipes are not necessary.

5. Due to the proposed driveway being finished so close to the level of the wetlands, soil test pits should be dug to look for presence of groundwater and mottling, especially within the wetland crossings, to further validate the driveway cross section design depicted on Sheet 4 of 4.

   Comment has been incorporated into the plan.

6. Different symbols are used for "Silt Fence." Use one symbol only and make changes to the plan to reflect this.

   Duplicate comment (see #3 above)

7. Different symbols are used for "New Property Line." Use one symbol only and make changes to the plan to reflect this.

   Comment has not been addressed.

Sheet 4 of 4 – Notes & Construction Details

1. Any reference to CT DOT Form 817 is to be changed to the current Form 818 designation.

   Comment has been incorporated into the plan.

General Comments

2. Even though USDA NRCS soils types with boundaries are included in the wetlands report, they should also be included on the project plans.

   This comment has not been addressed.

3. An overall plan showing the "new" lot lines should be included in the plan set. As it is presented now, it is difficult to see how the proposed subdivision relates to the existing lot configurations.

   This comment has not been addressed.

Syl Pauley, Jr., P.E.

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

RECEIVED
MAY 0 3 2021

May 3, 2021

Inland Wetlands Commission
Town of Brooklyn
69 South Main Street
Suite 22
Brooklyn, CT 06234

RE: CLA 6639
Subdivision
Church Street Brooklyn CT

To the Commission:

CLA Engineers was retained by A. Kausch & Sons LLC to conduct a wetlands investigation and functional assessment on the parcel of land, located on Church Street in Brooklyn CT that is proposed to be developed for a residences. The approximate site location is shown on the cover sheet of the site plans. The purposes of the investigation were to: establish the wetland delineation, provide background data in the form of determining wetland functions, and assess the potential for wetland impacts due to the proposed development.

Wetlands were delineated by Robert Russo of CLA Engineers according to the State of Connecticut statutory definition as described in Section 22a of the State Statutes. CLA conducted field work in October of 2020 amd March of 2021.

After wetland delineation was complete, the wetland resources of the site were surveyed by conducting a deliberate walk through of the site, traversing each wetland in order to collect data characteristic of that wetland. During the walk through, vegetation identifiable was noted, and described.

Site Setting

Much of the site had been used for agriculture up until the 20th century as demonstrated by abundant stonewalls. The presence of numerous Japanese barberry (*Berberis thumbergii*) Indicates that the site was likely used for cattle grazing in the past as this plant is ignored by cattles and soon takes over. The site currently has two vegetative cover types that were established after farming ceased. Both cover types, wooded upland and wooded swamp, are dominated by mixed hardwoods.

The areas of upland have mixed hardwoods such as red maple, red oak, white oak, black cherry and black birch. The wetlands are dominated by red maple trees with other species such as yellow birch and pin oak in lesser numbers.

The land uses surrounding the site include residential, agricultural and woodland. The residential development is primarily located to the north and south along Church St and to the west along Pomfret Landing Rd. Undeveloped farmland and woodland also occurs surrounds the site to the north, west and south.

Throughout the site slopes vary from moderate to nearly flat. The surface water drains both south westward and south eastward off of the site.. The slopes on the east and west side of the site are gentle at the edge of the wetland and are not prone to erosion.

Surficial Geology and Soils

Southern New England was overlain by glacial ice as recently as 12,000-15,000 years ago. The materials that the glaciers deposited over top the local bedrock determine the surficial geology of the region and of the site. Connecticut's glacial deposits are generally divided into three categories: glacial till (un-stratified sand, silt and rock), glaciofluvial (water sorted, stratified sand and gravel), and glaciolacustrine (stratified sand, silt and clay that settled out in lakebeds). Only glacial till is present on the site of the proposed residences. soils formed in till deposits typically have sandy loam to silt loam textures and in this case they are the coarser, sandy loams. The slopes are moderate to flat throughout the site and this leads to differences in soil mapping classification as listed by the NRCS.

Table 1 is a summary table of the soils found on the site.

Table 1 - Soil Types and Properties at the Church Street Site

Soil Series	Parent Material	Drainage Class	Texture/Characteristics
*2 Ridgebury	Glacial Till	Somewhat poorly to very poorly drained	Stony sandy loam
61 Canton and Charlton	Glacial till	Well drained	Sandy loam
46 Woodbridge	Glacial Till	Moderately Well Drained	Sandy loam

* Wetland soil types

Wetland Descriptions and Functions

In the area of the proposed development there is a wetland system that occupies a broad lowland that stretches from Church Street north westward. The wetland itself varies from approximately 100 to 400 feet wide. It is nearly level but has hummocky micro-topography Under the USFWS system is a palustrine deciduous swamp (PF01) that is seasonally flooded/saturated. This designation reflect its vegetation which is dominated by mature trees, and its hydrology which has shallow standing water in the winter and after storm events. The wetland lacks standing water in the summer and was not found to contain a perennial stream or vernal pool.

The typical vegetation of the wetlands includes: trees such as red maple trees and saplings, yellow birch trees and saplings; shrubs such as Japanese barberry, spice bush, highbush blueberry, winterberry holly, sweet pepperbush, clammy azalea, alder and plants such as skunk cabbage, cinnamon fern, sphagnum, royal fern, and sensitive fern.

The principle functions of this wetland system are typical to local red maple swamps and the wetland is generally undisturbed with an undisturbed wooded upland buffer. The CTDEEP NDDB (December 2020) shows no known habitat of threatened, endangered or special concern species.

The functions were found to include:

- Wildlife habitat
- Floodwater retention/detention
- Groundwater recharge/discharge
- Biomass production export
- Aesthetics

These values associated with the wetland and are supported by several important features of that wetland:

- Areas of undeveloped buffer
- Limited development within the watershed
- Evidence of use by a diversity of wildlife species.

Potential for Impacts

As shown on the project plans there are proposed activities in the inland wetlands. Three wetland crossing are proposed for the driveway that will provide access to the two houses. These activities are limited to impacts necessary to provide the driveway and are purposed

located in the narrowest reaches of wetland in order to minimize impacts. This lot has significant developable area that cannot be accessed without wetland impacts. The width of the driveway has been kept to the minimum required and the use smaller diameter culverts assists in keeping the elevation of the driveway low, minimizing the side slopes needed for the crossing. CLA believes that the proposed driveway crossing is the most feasible and prudent alternative.

As shown on the plans, work in the wetland will include:

- Clearing and grading
- Construction of driveways and placement of culverts
- Installation of erosion and sedimentation controls
- Construction of utilities

The activities in the wetland have been minimized in order to limit wetland disturbance.

As shown on the plans, work in the upland review zone will include:

- Clearing and grading
- Construction of driveways
- Installation of erosion and sedimentation controls
- Construction of utilities

These activities in the upland review zone present limited potential for wetland impacts. The site has only moderate slopes and short length of slope. CLA believes that the Best Management Practices (BMPs) measures shown on the plans for erosion and sediment control and storm water management will be adequate in preventing wetland impacts if properly installed and maintained.

CLA notes that in order to minimize the potential for impacts to wetlands, the E&S has been designed in compliance with the CTDEEP 2002 E&S Manual.

Alternatives

CLA examined alternative to the proposed wetland crossings. Note that the property has frontage on Pomfret Landing Rd, which could be used to gain access via a driveway, but wetland impacts would also be required. CLA conducted a field to determine the feasibility of a driveway crossing walk of this location. CLA determined that a driveway crossing in this location is not the most feasible and prudent alternative based on the following observations.

1. The wetland that would have to be crossed has a perennial stream, indicating that is a more valuable wetland than those to be impacted by coming off of Church Street.

2. The wetland to be crossed is 12 to 14 feet lower in elevation than the access strip off of Pomfret Landing Rd. This would necessitate a wide wetland fill to accomplish the crossing.
3. The wetland to be crossed is over 100 feet wide and continues, north and south, as a wildlife travel corridor. This characteristic is lacking in the wetlands that would be disturbed by gaining access from Church Street.
4. Due to the width of the wetland and elevation change, present, a wetland crossing at the Pomfret Land access would create a substantial fragmentation of the wetland and reduce its habitat values significantly. This would not be the case with the Church Street acess.

Based on these field observations, CLA believes that the proposed wetland crossings represent the most feasible and prudent alternative.

Summary

The proposed development activities will directly impact wetlands. The work in the upland review zone can be managed with BMPS so as to not impact wetlands during construction. In summary, if the proposed erosion and sedimentation control measures are adhered to, CLA believes that the wetland impacts will be limited to what is necessary to provide a driveway for the building lost.

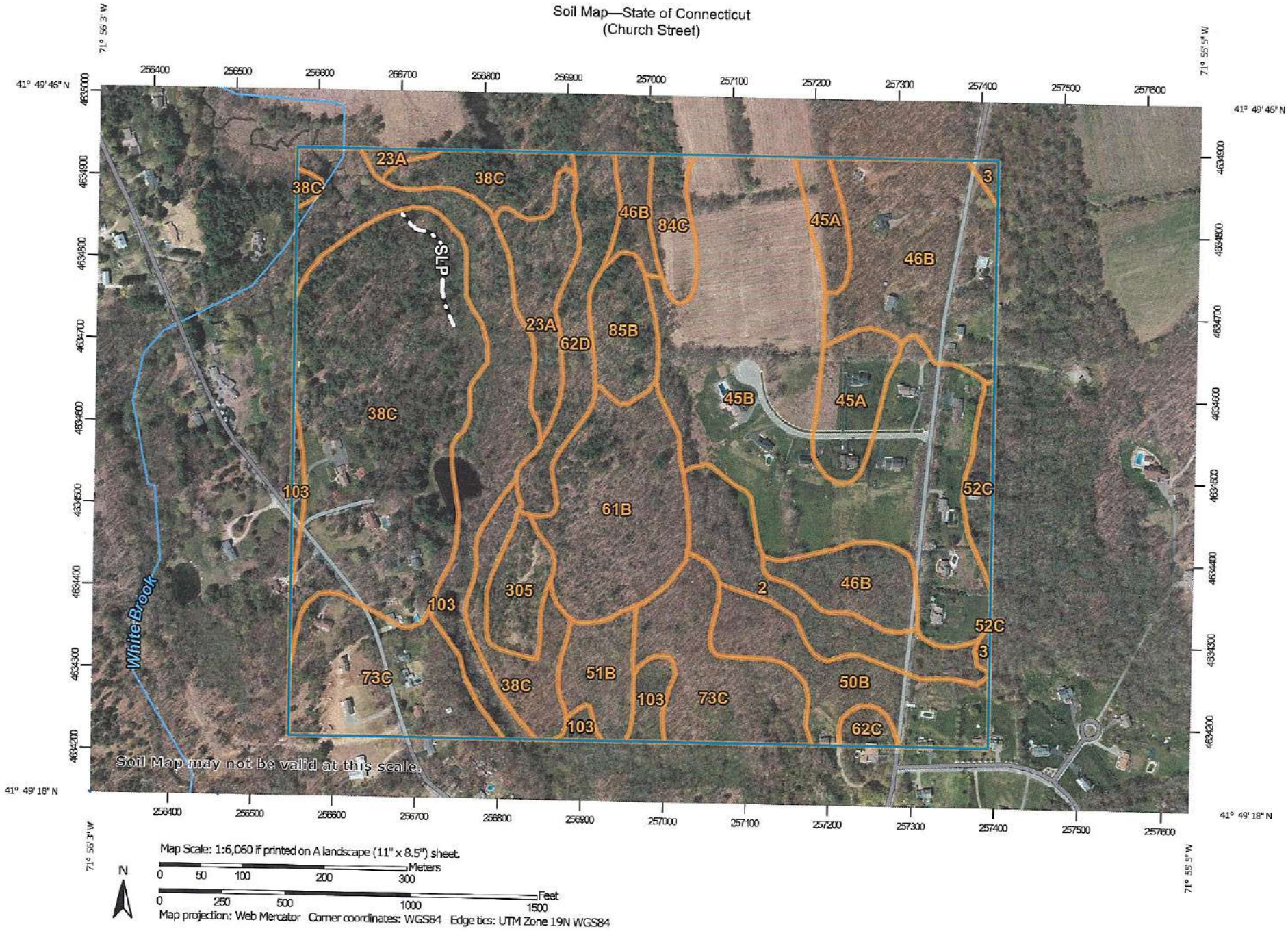
Please contact me if you have any questions.

Very truly yours,

R C Russo

Robert C. Russo
Soil Scientist

Soil Map—State of Connecticut
(Church Street)



Map Scale: 1:6,060 if printed on A landscape (11" x 8.5") sheet.

N

0 50 100 200 300 Meters

0 250 500 1000 1500 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84

USDA **Natural Resources Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut
Survey Area Data: Version 20, Jun 9, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 30, 2011—May 1, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
2	Ridgebury fine sandy loam, 0 to 3 percent slopes	5.6	3.8%
3	Ridgebury, Leicester, and Whitman soils, 0 to 8 percent slopes, extremely stony	0.4	0.3%
23A	Sudbury sandy loam, 0 to 5 percent slopes	4.1	2.8%
38C	Hinckley loamy sand, 3 to 15 percent slopes	29.8	19.8%
45A	Woodbridge fine sandy loam, 0 to 3 percent slopes	4.9	3.3%
45B	Woodbridge fine sandy loam, 3 to 8 percent slopes	28.7	19.1%
46B	Woodbridge fine sandy loam, 0 to 8 percent slopes, very stony	15.4	10.2%
50B	Sutton fine sandy loam, 3 to 8 percent slopes	6.5	4.3%
51B	Sutton fine sandy loam, 0 to 8 percent slopes, very stony	2.8	1.9%
52C	Sutton fine sandy loam, 2 to 15 percent slopes, extremely stony	1.4	0.9%
61B	Canton and Charlton fine sandy loams, 0 to 8 percent slopes, very stony	9.5	6.3%
62C	Canton and Charlton fine sandy loams, 3 to 15 percent slopes, extremely stony	0.7	0.5%
62D	Canton and Charlton fine sandy loams, 15 to 35 percent slopes, extremely stony	4.6	3.0%
73C	Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky	14.7	9.8%
84C	Paxton and Montauk fine sandy loams, 8 to 15 percent slopes	2.0	1.3%
85B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes, very stony	3.0	2.0%
103	Rippowam fine sandy loam	13.8	9.1%
305	Udorthents-Pits complex, gravelly	2.5	1.6%

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Totals for Area of Interest		150.2	100.0%

Margaret Washburn

From: B Deluca <bdeluca@claengineers.com>
Sent: Tuesday, July 06, 2021 9:42 AM
To: Margaret Washburn
Cc: PAUL ARCHER
Subject: FW:

Margaret,

As requested – see below

Robert A. DeLuca, P.E.
CLA Engineers, Inc.
317 Main Street
Norwich, CT 06360
P: (860) 886-1966
F: (860) 886-9165
bdeluca@claengineers.com
www.claengineers.com

Consulting Civil Engineers Since 1984

From: B Russo
Sent: Thursday, June 3, 2021 3:23 PM
To: B Deluca <bdeluca@claengineers.com>
Subject:

Bob,

This is to certify that I delineated wetlands on the western side of the Andrew Causch and Sons site located at Pomfret Landing Rd and Church St. In Brooklyn CT. The flag numbers are WF 101 through 103 and WF 201 through 205 and are shown on the plan prepared by Archer Surveying.

Robert C Russo

C.S.S.

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

Brown Rd. Map 34 Lot 31 — Address

8/17/21 — Date

I took photographs at the request of James Paquin, IWWC Member.

Chairman Arends on 5/11/21 asked that woodchips not be put into wetlands. He said "Move them out to upland areas or truck them out". Large quantities of wood chips were observed in wetlands today.

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Commission Representative M. Washburn

Owner or Authorized Signature _____

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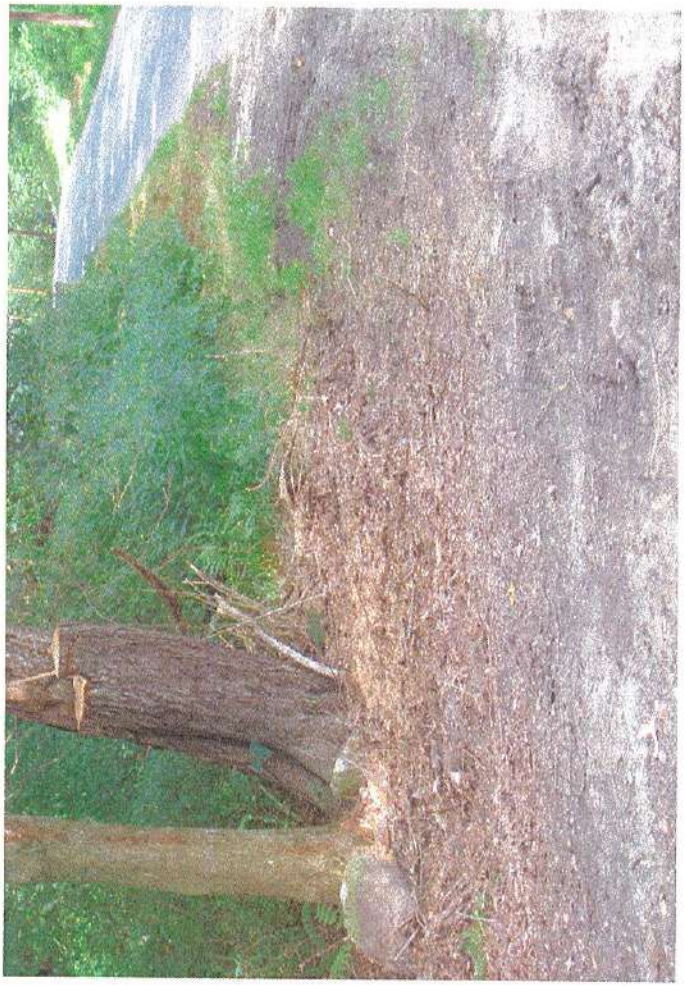

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Ms. Washburn recommends the Commission do a site walk, then regroup and have Mr. O'Connor present at next month's meeting.

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Ms. Washburn is on vacation May 20th through May 31st. Attorney Weiner will be in touch with Ms. Washburn with regards to soil scientist recommendation.

2. Brown Road, Map 34, Lot 31 – Jared Chviek. Show Cause Hearing for wetlands violation.

Jared Chviek, 95 Wauregan Rd, property owner is present at cause hearing. Mr. Chviek is currently renting land in Woodstock for his seven cows and would like to move them to the property on Brown Road as an agricultural use. Mr. Chviek discusses Ms. Washburn's photographs. Mr. Chviek is cleaning up downed debris, chipping it up. There has been no new materials hauled in or foreign materials. He is not looking to build on the property.

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Chairman Arends commented that an agricultural use is as of right and you are permitted to do that. If you are getting into a wetlands, the Commission would like to be sure the work is being done correctly. Mr. Chviek stated yes.

Mr. Brindamour asked how large is the parcel? Mr. Chviek stated 27.35 acres.

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Margaret Washburn

From: Rich Hawes <rhawes@ewburman.com>
Sent: Monday, August 16, 2021 10:28 AM
To: Margaret Washburn
Cc: Rick Ives
Subject: FW: Brooklyn, Brown Road Property Map 34, Lot 31
Attachments: Brooklyn_Brown Rd_ Map-34_Lot-31_8.16.21.pdf

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- Misc clearing & added boulders
- It appears the location of the entrance is in the same proximity as when the C&D ordered was issued
- Are there permits required for grading / drainage modifications on Town property?

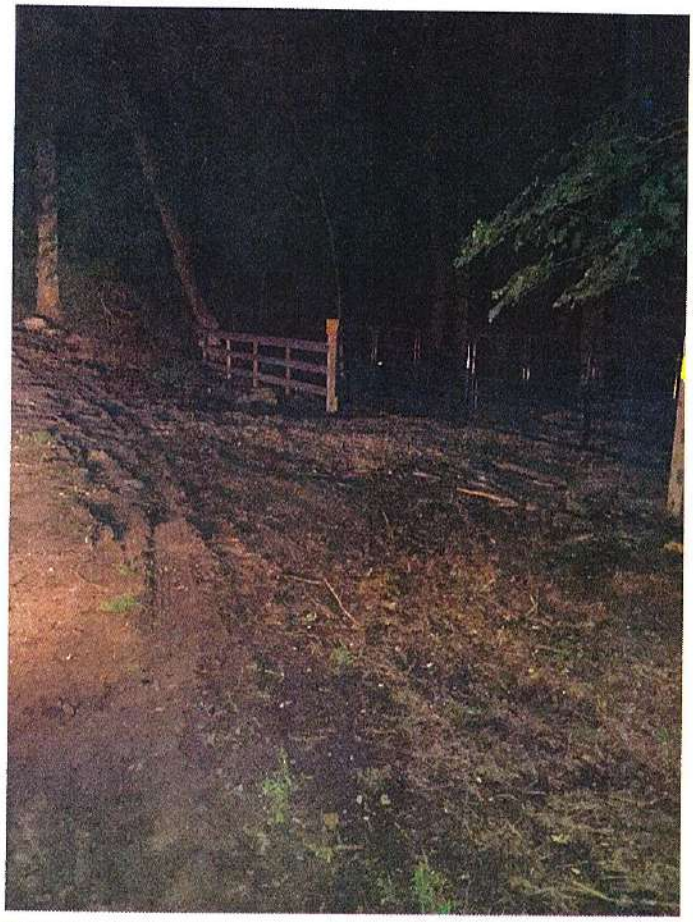
If the property owner has provided some sort of "plan to develop the property" as recommended by the IWWC, would it be possible to forward a copy to me?

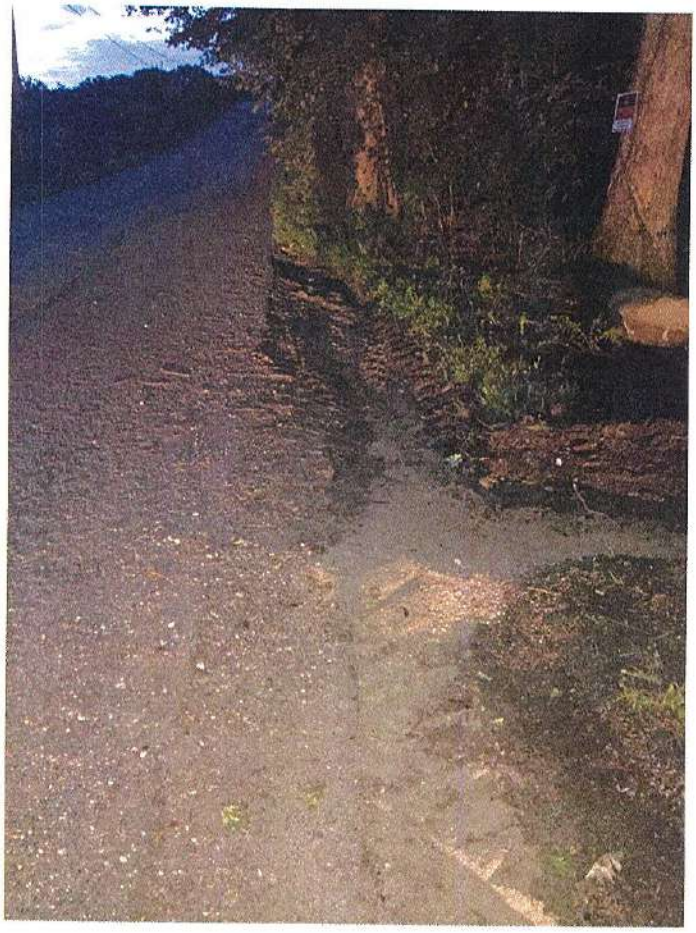
It is my opinion that the property owner is not in compliance with the Town of Brooklyn rules & regulations, but will have to defer to your expertise for final determination

Appreciate your time & please advise, thank you

Richard C. Hawes | Project Manager
E. W. Burman, Inc.
33 Vermont Avenue
Warwick, RI 02888
p. 401.738.5400 f. 401.737.2650 c. 401.255.0985

E W BURMAN
GENERAL CONTRACTORS





Brown Rd, Brooklyn_8/16/21

 from 5/11/21 minutes re: Chviek Brown Rd.

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Inland Wetlands ✓ Zoning Enforcement_____ Blight Enforcement_____

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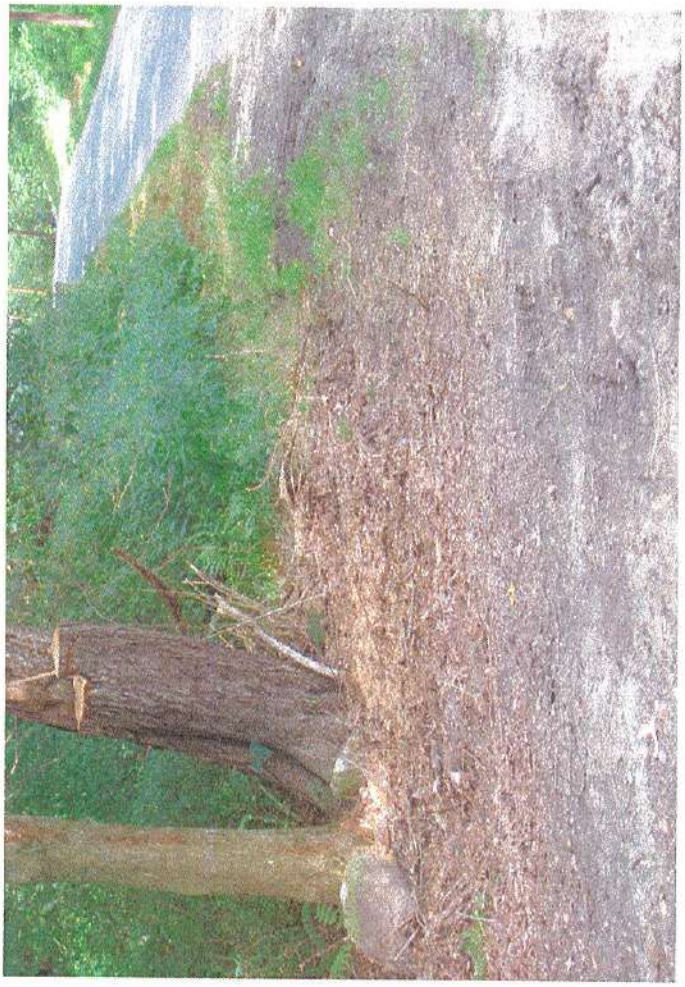

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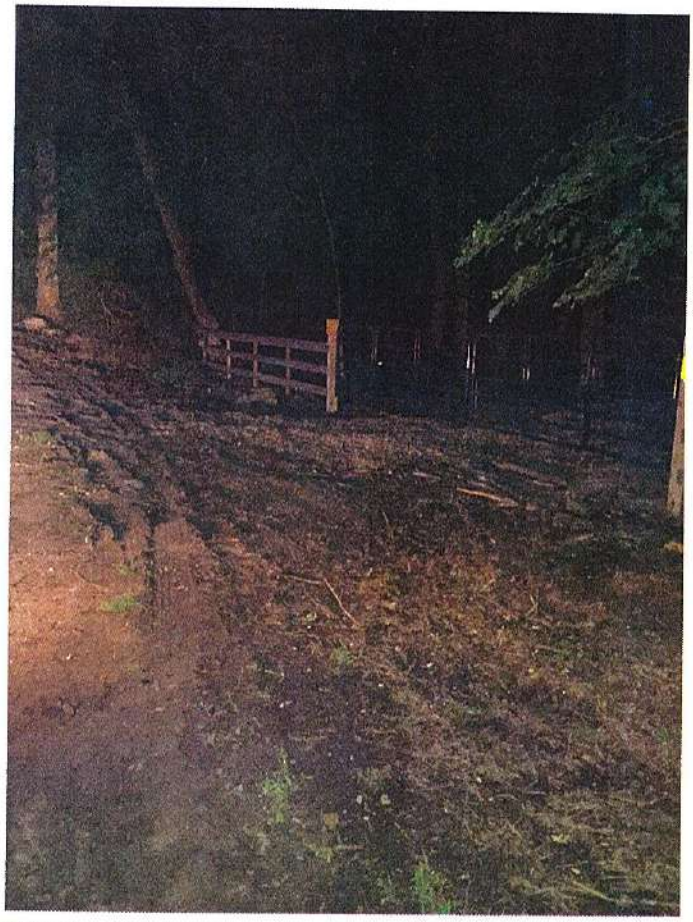
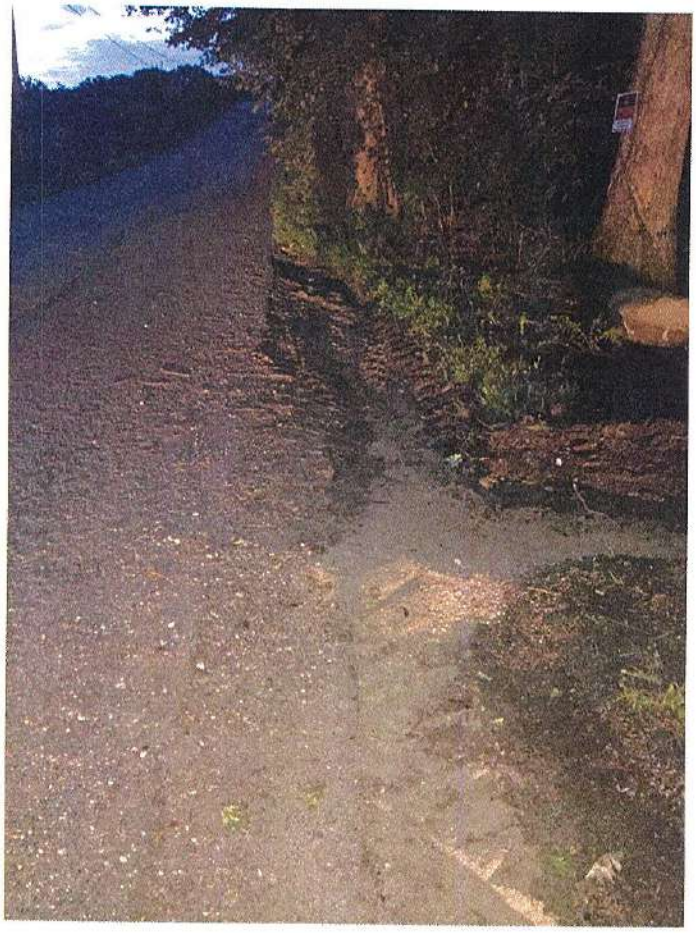
Richard C. Hawes | Project Manager
E. W. Burman, Inc.
33 Vermont Avenue
Warwick, RI 02888
p. 401.738.5400 f. 401.737.2650 c. 401.255.0985

E W BURMAN
GENERAL CONTRACTORS





Brown Rd, Brooklyn_8/16/21

 from 5/11/21 minutes re: Chviek Brown Rd.

New Business:

1. 181 Paradise Drive – Shane O'Connor. Show Cause Hearing for wetlands violation.

Attorney S. Weiner represents Mr. Shane O'Connor. Attorney Weiner read the notice, spoke with Mr. O'Connor, and also spoke with Ms. Washburn. Mr. O'Connor owns the building and land which is subject to Inland Wetlands. Attorney Weiner recommended to Mr. O'Connor anytime he wishes to do work he should be in contact with Ms. Washburn to see if it requires a wetlands permit. Mr. O'Connor put down some traprock and had some idea to spread loam out. There will be no more trees or scrub cut down until he speaks with Ms. Washburn to see if a permit is required.

Chairman Arends asks Mr. O'Connor if he has any plans for the property, to have them drawn out and bring in with an application. Mr. O'Connor understands.

Ms. Washburn recommends the Commission do a site walk, then regroup and have Mr. O'Connor present at next month's meeting.

Mr. Sorrentino asked the Commission if they feel it prudent to hire soil scientist to see what the activity is within the wetland and upland review area, Ms. Washburn agrees with this. Discussion ensued.

Chairman Arends asked Mr. O'Connor to have the wetlands delineated so they know the amount of any disturbance. Ms. Washburn can help Mr. O'Connor with the name of a soil scientist.

Members discussed setting up a site walk. Members agreed to have the wetlands delineation ready before a site walk is scheduled. Mr. O'Connor has 4 weeks to get the delineation done. Next month's meeting is June 8, 2021. Chairman Arends suggested that Mr. O'Connor notify Ms. Washburn once this is completed so a site walk can be scheduled.

Ms. Washburn is on vacation May 20th through May 31st. Attorney Weiner will be in touch with Ms. Washburn with regards to soil scientist recommendation.

2. Brown Road, Map 34, Lot 31 – Jared Chviek. Show Cause Hearing for wetlands violation.

Jared Chviek, 95 Wauregan Rd, property owner is present at cause hearing. Mr. Chviek is currently renting land in Woodstock for his seven cows and would like to move them to the property on Brown Road as an agricultural use. Mr. Chviek discusses Ms. Washburn's photographs. Mr. Chviek is cleaning up downed debris, chipping it up. There has been no new materials hauled in or foreign materials. He is not looking to build on the property.

Chairman Arends asked Mr. Chviek if he was using the property as an agriculture purpose. Mr. Chviek stated yes sir. Chairman Arends asked if he was cutting down trees? Mr. Chviek stated minimal trees, none yet, mostly brush. Chairman Arends asked him what kind of equipment is he

using? Mr. Chviek stated a chain saw, clippers, putting scrub brush through the chipper. He owns a 33 horse and 24 horse bucket tractor which has not been to the site yet.

Chairman Arends commented that an agricultural use is as of right and you are permitted to do that. If you are getting into a wetlands, the Commission would like to be sure the work is being done correctly. Mr. Chviek stated yes.

Mr. Brindamour asked how large is the parcel? Mr. Chviek stated 27.35 acres.

Mr. Sorrentino stated he does not think it has been delineated yet, but significant portion of property is wetlands per aerial. Discussion ensued.

Mr. Sorrentino stated property owners have right to cut trees and clear vegetation. Chipping and depositing in wetlands is questionable. Cutting trees down and leaving it whole in wetlands is not considered fill. Mr. Chviek asked if he is allowed to put chips in the back of a truck and haul it out. Mr. Sorrentino stated this is okay as long as you do not uproot the tree mass and destroy soil. Mr. Chviek's stated his main reason he bought the property was for the agricultural rights.

Chairman Arends asked Ms. Washburn how this came before the Commission. Ms. Washburn commented a complaint came in from Mrs. Hawes. Ms. Hawes was concerned that Mr. Chviek would make trails for motorized vehicles. Ms. Washburn stated Creamery Brook runs through the property, and most of the property is wet. The access point is in the wetlands. There are uplands on site where an entrance point can be made to establish the pasture. Utilizing the uplands on site to start would be easier and not necessarily a regulated activity. Ms. Washburn would like Mr. Chviek to tell the Commission what his plans are and keep them informed with what he wishes to do to alleviate the concerns with complaints. The Commission is charged with protecting resources. Discussion ensued.

Mr. Chviek has had problems with the neighbor trespassing on his property. Discussion ensued.

Mr. Sorrentino suggests that Mr. Chviek come up with a plan and submit to Ms. Washburn so there is an idea what areas are proposed to be cleared. Mr. Paquin suggests to Mr. Chviek to show what the intent is and advise the Commission. Mr. Paquin would like to lift the cease-and-desist order at this time. Mr. Paquin advises Mr. Chviek as he progresses with the project that he advise the Commission of the plan. Chairman Arends agrees.

Chairman Arends asked that wood chips not be put into wetlands, move them out to upland areas or truck them out. Ms. Washburn stated driving motorized equipment will make a mess. Chairman Arends recommends no big vehicles in the wetlands. Discussion ensued.

A motion was made by Jim Paquin to remove the cease-and-desist order for Brown Road, Map 34, Lot 31-Jared Chviek. Demian Sorrentino seconds this motion. No discussion held. All in favor. The motion passes unanimously.

Inland Wetlands Agent's Report

September 14, 2021

<u>Public Hearings</u>

071321A Pomfret Landing Road/Church Street – Andrew Kausch.

Date submitted: 7/13/21.

Date of receipt: 7/13/21.

Date Public Hearing opens: 9/14/21.

From the IWWC Regulations: "The hearing shall be completed within thirty-five (35) days of its commencement."

Deadline to close the public hearing if no extensions are granted: 9/14/21 (Date hearing opened: 9/14/21 plus 35 days =10/19/21).

Deadline to close the public hearing if maximum (65 day) extensions are granted: 12/23/21 (10/19/21 deadline to close public hearing plus 65 days =12/23/21).

At the 7/13/21 IWWC meeting, I was directed by an IWWC member, not the chairman, to copy "everything" from the 041321D file, Mr. Andrew Kausch's previous application for Pomfret Landing Road/Church Street, which was withdrawn on 7/13/21; I was directed by the same IWWC member to use "everything" from the 041321D file to make the "new" file for application number 071321A, to be received on 7/13/21.

I reached out to Town Counsel because I was uncomfortable assembling a new application for Mr. Kausch and Mr. Paul Archer. I didn't want to include something from the withdrawn application that they didn't want in the new application, nor did I want to accidentally omit something in the withdrawn application that they do want in the new application.

Peter Alter sent the following in part, in an e-mail on 7/15:

".....the applicant should determine what of the old filing should be incorporated into the new file, you do not have the authority to act on behalf of an applicant. You should make the entire file available to the applicant for the applicant to determine what of the old application can be applicable to the new one.

…… Once the applicant and owner have reviewed the materials and indicated what of the old materials are to be included in the new application, you can then treat the new application as just that, a new application.

….. the applicant should keep control of its application.

…… I suggest you reach out to the applicant or Mr. Archer, suggest that you want to cooperate as ……. directed but that you do not want to make a decision as to what is to be included in the "new" application and that you would appreciate written communication from the applicant or its professionals as to what is to be included from the prior application."

In accordance with Peter Alter's recommendation, I contacted Mr. Kausch and Mr. Archer; they met with me in my office and chose the documents from the withdrawn application that they wanted to be in the new application. They subsequently submitted additional information to also be included in the new application. All materials to be included were verified by Paul Archer on 8/5/21.

NECCOG review engineer's unaddressed comments:

"The revised note on Sheet 2 of 4 leaves out the mention of topsoil depth. Nevertheless, topsoil depths are noted along the proposed driveway where the test pits were dug and remain the same as noted in the previously submitted drawing. Furthermore, the term "seasonal high groundwater" has been incorporated into the former note, most likely due to observing mottles. Accordingly, I recommend that driveway construction be carefully inspected concurrently by the Applicant's engineer and a member of town staff, especially where wetland crossings occur with variable depths (0" - 16") to seasonal high groundwater levels, to ensure that the engineer's driveway design is adhered to and minimize the impact this could have on the long-term functionality of the driveway."

"Even though USDA NRCS soils types with boundaries are included in the wetlands report, they should also be included on the project plans."

"An overall plan showing the "new" lot lines should be included in the plan set. As it is presented now, it is difficult to see how the proposed subdivision relates to the existing lot configurations."

Old Business

071321A Pomfret Landing Road/Church Street – Andrew Kausch.

181 Paradise Drive – Shane O'Connor. Show Cause Hearing for wetlands violation.

At the last meeting, IWWC members agreed to do individual drive-by site inspection from the road since Mr. Shane O'Connor failed to appear at the 7/13 meeting and was therefore unable to grant permission for a site walk.

Mr. O'Connor came to my office on 7/27. He signed a document giving permission for IWWC members to do a site walk on his property. He also submitted the plan that Chairman Arends had requested at the May 11 meeting. From the 5/11/21 minutes:

> Chairman Arends asks Mr. O'Connor if he has any plans for the property, to have them drawn out and bring in with an application. Mr. O'Connor understands.
>
> Chairman Arends asked Mr. O'Connor to have the wetlands delineated so they know the amount of any disturbance. Ms. Washburn can help Mr. O'Connor with the name of a soil scientist.

Mr. Joseph Theroux's wetlands delineation report dated 5/24/21 addressed wetlands impacts.

At this point, the house is being sold to Mr. Ken Demers. Mr. Demers understands that he needs a site plan if he wishes to build an addition or do any other site work. He will hire a surveyor to locate the wetlands flags. He has asked me to do an inspection to remove two hazardous trees, which I have scheduled.

I recommend issuing a closed Order to Remediate.

35 Kara Road – Deborah Love. Show Cause Hearing for wetlands violation.

IWWC Members Jason Burgess, Richard Oliverson, and Demian Sorrentino attended a site walk on 7/20/21 with Mr. Lester Philips. The site walk notes:

"Brooklyn IW&WC Site Walk
Date: 7/20/21 Scheduled Time: 5:15PM
Location: 35 Kara Road Owner: Deborah S. Love

Attendees: Demian Sorrentino, Jason Burgess, Richard Oliverson, Lester Philips
It is determined that no quorum is present.
Commissioners gathered in the driveway and met the owner's husband Lester Phillips. Site walk started at 5:20PM. Commissioners viewed the recently placed fill material at the top of the hill and the embankment down towards the southerly abutter's property. Mr. Philips guided commissioners down the hill to the flat area adjacent Creamery Brook, commissioners observed the logs on the ground and wood chips on the berm. Commissioners then walked around the westerly pond, then back between the ponds where they observed a portion of the gravel path had had been eroded. Commissioners observed the driveway at the end of Kara drive that is covered in concrete. Commissioners walked back to the flat area adjacent Creamery Brook and observed the location where surface water drains from this flat area into the riparian wetlands, then walked back up the bank to the parking area.
Site walk ended at 5:38PM.
Respectfully Submitted – Demian A. Sorrentino, IW&WC Member."

The Commission may wish to ask Mr. Philips whether he intends to move the fill around on the site. What are his intentions regarding the final resting place of the fill?

The Commission may wish to consider 2 options:

The fill appears to be approximately 130 feet from the wetlands associated with Creamery Brook. An after-the fact permit is one option.

If the Commission feels that the fill is stable and poses no threat to the wetlands on site, and there is no plan to spread the fill closer to wetlands, issuing a closed Cease & desist Order is a second option.

95 Bunny Lane – David Jarvis. An Agent Approval was issued on 7/29/21.

Brown Road; Map 34. Lot 31 - Jared Chviek. Complaint.

On 8/16/21, I received an e-mailed complaint about the work being done on site. I forwarded the e-mail to the IWWC members. Jim Paquin responded, and I sent this as a follow-up email:

“I will take some photos today. I also forwarded the email to Tom Rukstela regarding any impacts the work may or may not have on the Town right-of-way. Whether or not the gate is on private property or on Town land is not for me to decide. The grading beside the road is also an issue for Tommy.

Please refer to pages 8 & 9 in the attached minutes from May 11. In the third paragraph from the end of the section on Brown Road on page 9, Demian and you mention that Mr. Chviek should submit something like a plan showing what work is proposed and where it is proposed. Maybe at the 9/14 meeting this can be discussed and the Commission may want to recommend that I send Mr. Chviek a letter requesting whatever the Commission decides is needed.”

317 Day Street – Kenzie Patterson. Wetlands Violation.

Please refer to the inspection report, photos and marked-up site plan in the attachments to the agenda. I am seeking guidance from the IWWC members as to whether you would like me to take the friendly approach and seek voluntary compliance by asking the Pattersons to move their yard waste pile further away from wetlands, which should be relatively easy, or if you want me to issue a Notice of Violation for the record.

Town of Brooklyn

Expenditure Report

From Date: 8/1/2021 To Date: 8/31/2021

Fiscal Year: 2021-2022

☐ 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	$1,200.00	$0.00	$150.00	$1,050.00	$0.00	$1,050.00	87.50%
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	$100.00	$0.00	$0.00	$100.00	$0.00	$100.00	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:	$5,865.00	$0.00	$150.00	$5,715.00	$0.00	$5,715.00	97.44%

End of Report