RECEIVED
SEP - 3 2020

INLAND WETLANDS & WATERCOURSES COMMISSION
TOWN OF BROOKLYN, CONECTICUT

Date _____ Application # 090820A

APPLICATION -- INLAND WETLANDS & WATERCOURSES

APPLICANT Square 1 Building Associates MAILING ADDRESS 101 Mackin Drive, Griswold, Ct 06351
APPLICANT'S INTEREST IN PROPERTY Builder PHONE 860-888-3129 EMAIL pollock_shane@yahoo.com

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

ENGINEER/SURVEYOR (IF ANY) CLA Engineers, Inc. / Archer Surveying
ATTORNEY (IF ANY) None

PROPERTY LOCATION/ADDRESS Tripp Hollow Road
MAP # 7 LOT # 12-1 ZONE RA TOTAL ACRES 23.3 ACRES OF WETLANDS ON PROPERTY 5.0

PURPOSE AND DESCRIPTION OF THE ACTIVITY Residential building construction consisting of houses, driveways, wells septic systems and associated grading. 4 Lots

WETLANDS EXCAVATION AND FILL:
FILL PROPOSED yes CUBIC YDS 260 SQ FT 2,800
EXCAVATION PROPOSED yes CUBIC YDS 105 SQ FT 2,800
LOCATION WHERE MATERIAL WILL BE PLACED: ON SITE yes OFF SITE _____
TOTAL REGULATED AREA ALTERED: SQ FT 31,800 ACRES 0.73

EXPLAIN ALTERNATIVES CONSIDERED (REQUIRED): Refer to attached Soil Scientist letter.

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

IS PARCEL LOCATED WITHIN 500FT OF AN ADJOINING TOWN? yes IF YES, WHICH TOWN(S) Canterbury
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: X _____, member DATE 9-3-2020

OWNER: X _____, member DATE 9-3-2020

RECEIVED
SEP - 3 2020

REQUIREMENTS

_____ Application Fee $_____ State Fee ($60.00) _____

_____ 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

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 municipal inland wetlands agency.

PART I: Must Be Completed By The Inland Wetlands Agency

1. DATE ACTION WAS TAKEN: year: **Click Here for Year** month: **Click Here for Month**
2. CHOOSE ACTION TAKEN (see instructions for codes): **Click Here to Choose a Code**
3. WAS A PUBLIC HEARING HELD (check one)? yes ☐ no ☐
4. NAME OF AGENCY OFFICIAL VERIFYING AND COMPLETING THIS FORM:

   (type name) _____ (signature) _____

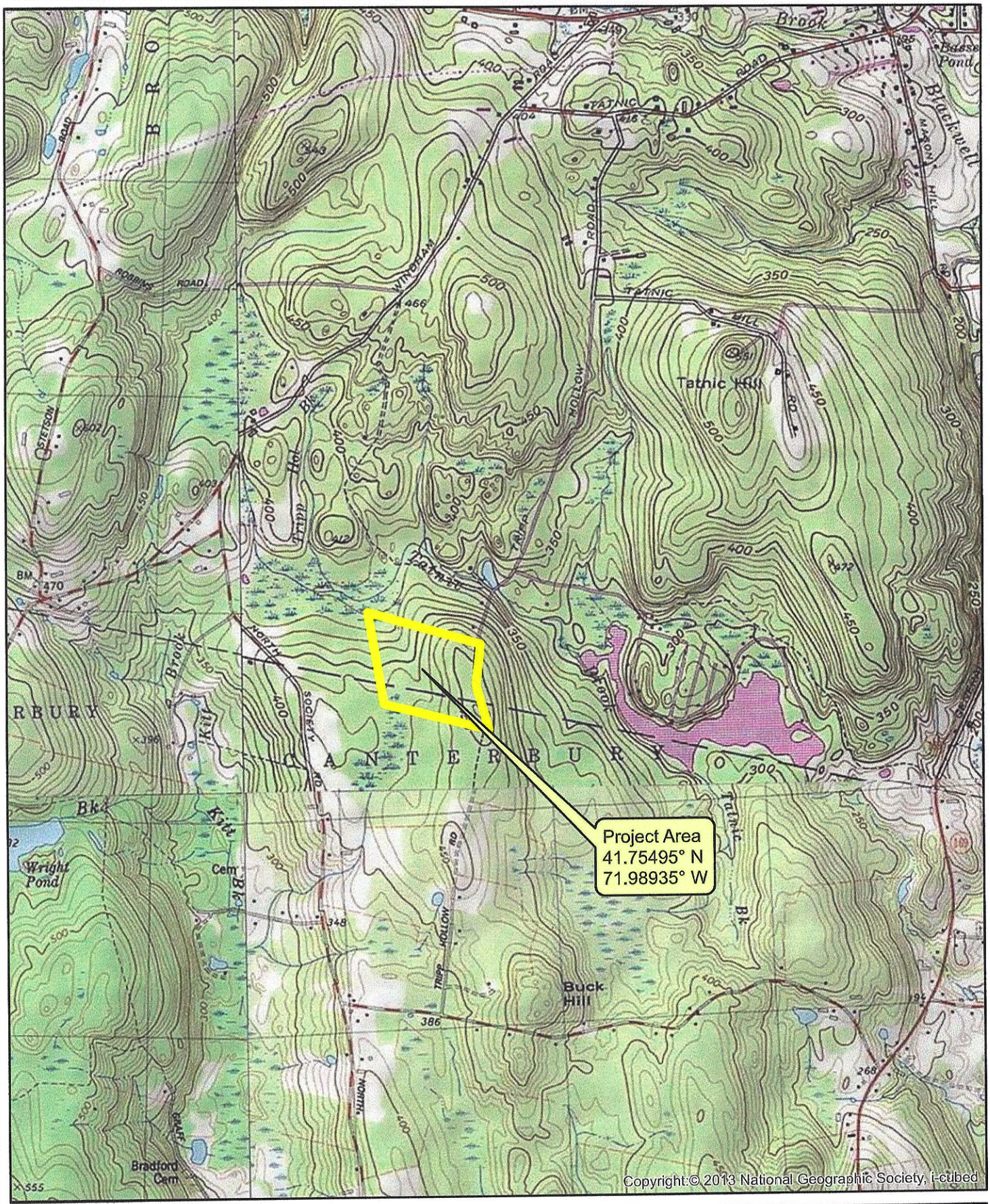
PART II: To Be Completed By The Inland Wetlands Agency Or The Applicant

5. TOWN IN WHICH THE ACTION IS OCCURRING (type 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 (type name(s)): _____, _____
6. LOCATION (click on hyperlinks for information): USGS quad map name: **Danielson** or quad number: **43**
   subregional drainage basin number: **3711**
7. NAME OF APPLICANT, VIOLATOR OR PETITIONER (type name): **Square 1 Building Associates**
8. NAME & ADDRESS / LOCATION OF PROJECT SITE (type information): **Tripp Hollow Road, Brooklyn, CT (map attached)**
   briefly describe the action/project/activity (check and type information): temporary ☐ permanent ☒ description: **Wetland fill for a proposed driveway crossing. Work in the regulated areas for residentail lot development**
9. ACTIVITY *PURPOSE* CODE (see instructions for codes): **B**
10. ACTIVITY *TYPE* CODE(S) (see instructions for codes): **1, 2, 9, 12**
11. WETLAND / WATERCOURSE AREA ALTERED (type acres or linear feet as indicated):
    wetlands: **0.06** acres open water body: **0.00** acres stream: **0.00** linear feet
12. UPLAND AREA ALTERED (type acres as indicated): **4.3** acres
13. AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (type acres as indicated): **0.00** acres

PART III: To Be Completed By The DEEP

DATE RECEIVED: DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO FORM CORRECTED / COMPLETED: YES NO



CLA Engineers, Inc.
Civil · Structural · Surveying
317 Main Street
Norwich, Connecticut
860-886-1966
claengineers.com

LOCATION MAP

Proposed 4 Lot Subdivision
Tripp Hollow Road
Brooklyn, Connecticut
USGS Quad #43 (Danielson)

DATE: Sept. 3, 2020
SCALE: 1:24,000
SOURCE: USGS Quad

N

FIGURE

1

CLA Engineers, Inc.
Civil • Structural • Survey

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

September 3, 2020

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

RE: CLA 6503
Square 1 Subdivision
Tripp Hollow Rd

To the Commission:

CLA Engineers was retained by Square 1 Building Associates LLC to conduct a wetlands investigation and functional assessment on the parcel of land, located on Tripp Hollow Road, that is proposed to be developed for a residential subdivision. The 23+/- (Source NECOG GIS) acre site is located within the Town of Brooklyn on the Canterbury border. It is currently wooded undeveloped land. 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 June and July of 2020.

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 Square 1 subdivision 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 east along Tripp Hollow Rd. Undeveloped farmland and woodland surrounds the site to the north, west and south.

Throughout the site slopes vary from moderate to nearly flat. The surface water drains forn the west and east to the centrally located wetland and flows northward off sit to Tatnic Brook. The slopes on the east and west side of the wetland 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 Square 1subdivision 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. However, one of the wetland soil types is formed in post glacial deposits of organic matter. The 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 Square 1 Subdivision Site

Soil Series	Parent Material	Drainage Class	Texture/Characteristics
*3 Ridgebury, Leicester and Whitman	Glacial Till	Somewhat poorly to very poorly drained	Stony sandy loam
*17 Timakwa and Natchuag	Decayed organic matter	Very poorly drained	Well to moderately decayed
47 Woodbridge	Glacial Till	Moderately Well Drained	Sandy loam

* Wetland soil types

Wetland Descriptions and Functions

The Square 1 Subdivision site has one wetland system that occupies a broad swale approximately 1000 west of Tripp Hollow Rd. The wetland itself varies from approximately 100 to 200 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 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 (June 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
- Recreation
- 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. The total area of wetland excavation and fill proposed is 2,800 square feet. These activities are limited to impacts necessary to provide a driveway for the lot located furthest from the road. This lot has significant developable area that cannot be accessed without wetland

impacts. The driveway crossing location is at a narrow point in the wetland to assist in minimizing wetland impacts. There is one other narrow point to the north, but this location would result in no further reduction of wetland impact. The width of the driveway has been kept to the minimum required and the use of multiple, 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 upland review zone will include:

- Clearing and grading
- Construction of driveways, a houses and a septic systems
- 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 stormwater 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.

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 a building lot.

Please contact me if you have any questions.

Very truly yours,

R C Russo

Robert C. Russo
Soil Scientist

Appendix A
Soils Data

NRCS Soils descriptions

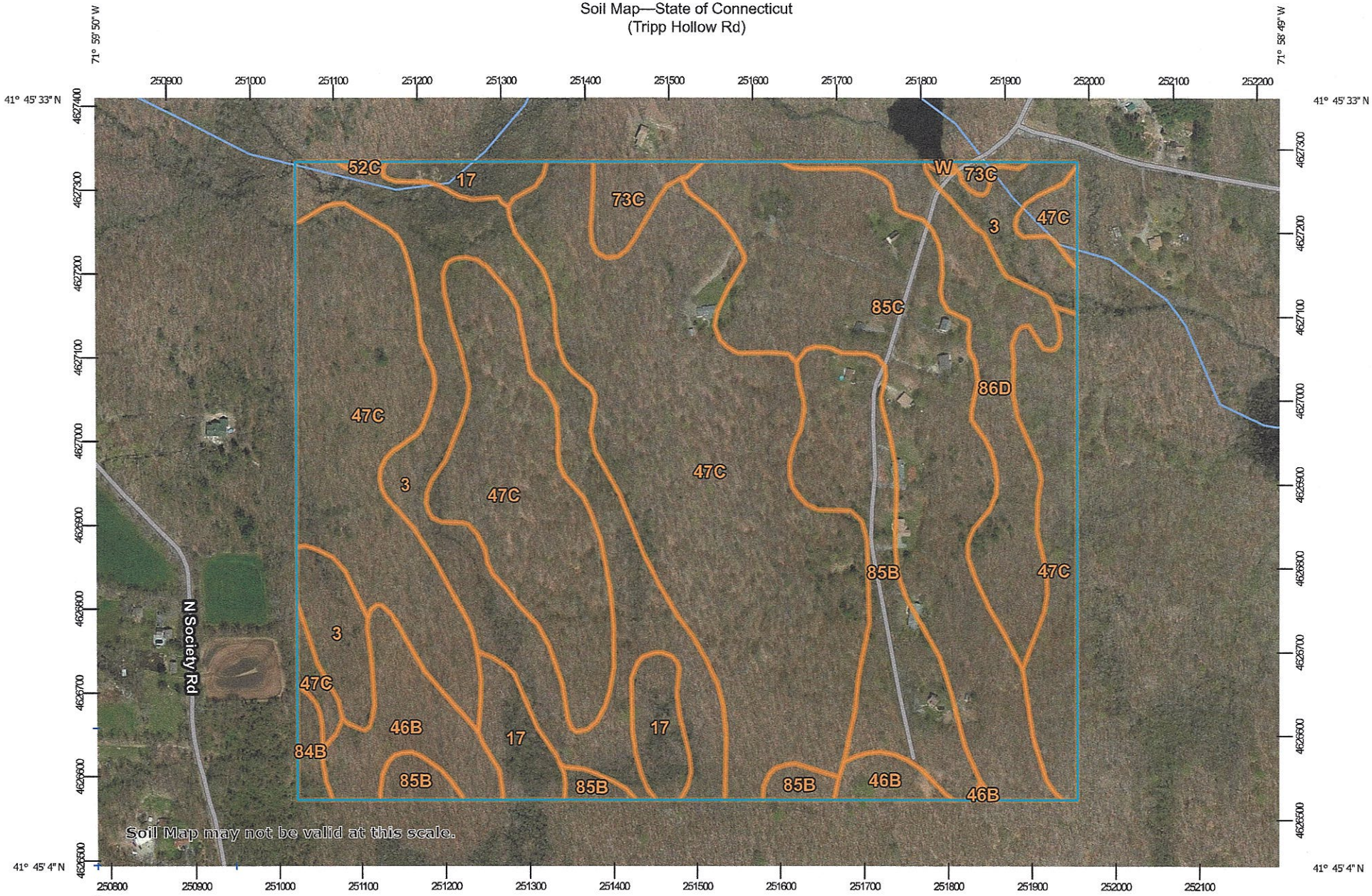
(3) The Ridgebury series consists of very deep, somewhat poorly and poorly drained soils formed in lodgment till derived mainly from granite, gneiss and/or schist. They are commonly shallow to a densic contact. They are nearly level to gently sloping soils in depressions in uplands. They also occur in drainageways in uplands, in toeslope positions of hills, drumlins, and ground moraines, and in till plains. Slope ranges from 0 to 15 percent. Saturated hydraulic conductivity is moderately high or high in the solum and very low to moderately low in the substratum. Mean annual temperature is about 9 degrees C. and the mean annual precipitation is about 1143 mm.

(17) The Timakwa series consists of very deep, very poorly drained soils formed in woody and herbaceous organic materials over sandy deposits in depressions on lake plains, outwash plains, till plains, moraines, and flood plains. Saturated hydraulic conductivity is moderately high or high in the organic layers and high or very high in the sandy material. Slope ranges from 0 to 2 percent. Mean annual temperature is about 13 degrees C and the mean annual precipitation is about 1258 mm.

(17 The Natchaug series consists of very deep, very poorly drained soils formed in woody and herbaceous organic materials overlying loamy deposits in depressions on lake plains, outwash plains, till plains, moraines, and flood plains. Saturated hydraulic conductivity is moderately high or high in the organic layers and moderately low to high in the loamy material. Slope ranges from 0 to 2 percent. Mean annual temperature is about 9 degrees Celsius and mean annual precipitation is about 1205 millimeters.)

(47) The Woodbridge series consists of moderately well drained loamy soils formed in lodgment till. They are very deep to bedrock and moderately deep to a densic contact. They are nearly level to moderately steep soils on hills, drumlins, till plains, and ground moraines. Slope ranges from 0 to 25 percent. Saturated hydraulic conductivity ranges from moderately high to high in the surface layer and subsoil and low or moderately low in the dense substratum. Mean annual temperature is about 9 degrees C., and mean annual precipitation is about 1168 mm.

Soil Map—State of Connecticut
(Tripp Hollow Rd)



Map Scale: 1:6,450 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 50 100 200 300

Feet
0 300 600 1200 1800

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

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
3	Ridgebury, Leicester, and Whitman soils, 0 to 8 percent slopes, extremely stony	28.9	16.4%
17	Timakwa and Natchaug soils, 0 to 2 percent slopes	6.7	3.8%
46B	Woodbridge fine sandy loam, 0 to 8 percent slopes, very stony	7.1	4.0%
47C	Woodbridge fine sandy loam, 3 to 15 percent slopes, extremely stony	79.2	45.0%
52C	Sutton fine sandy loam, 2 to 15 percent slopes, extremely stony	0.1	0.1%
73C	Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky	2.5	1.4%
84B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes	1.0	0.5%
85B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes, very stony	13.8	7.8%
85C	Paxton and Montauk fine sandy loams, 8 to 15 percent slopes, very stony	26.9	15.3%
86D	Paxton and Montauk fine sandy loams, 15 to 35 percent slopes, extremely stony	9.9	5.6%
W	Water	0.1	0.0%
Totals for Area of Interest		**176.1**	**100.0%**

SUBDIVISION APPLICATION

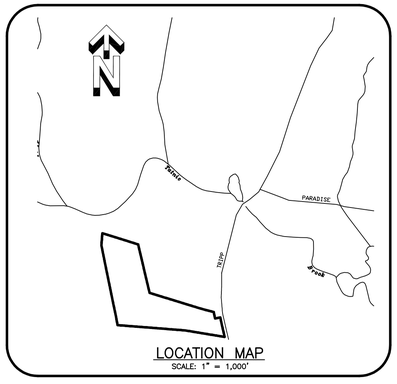
PROPOSED 4 LOT SUBDIVISION

TRIPP HOLLOW ROAD
BROOKLYN, CONNECTICUT

PROPERTY OWNER/APPLICANT:

SQUARE 1 BUILDING ASSOCIATES

September 1, 2020



INDEX OF DRAWINGS

PREPARED BY:

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

APPROVED BY THE BROOKLYN
INLAND WETLANDS COMMISSION

CHAIRMAN DATE

Expiration date per section 22A-42A of the Connecticut General Statutes. Date: _____

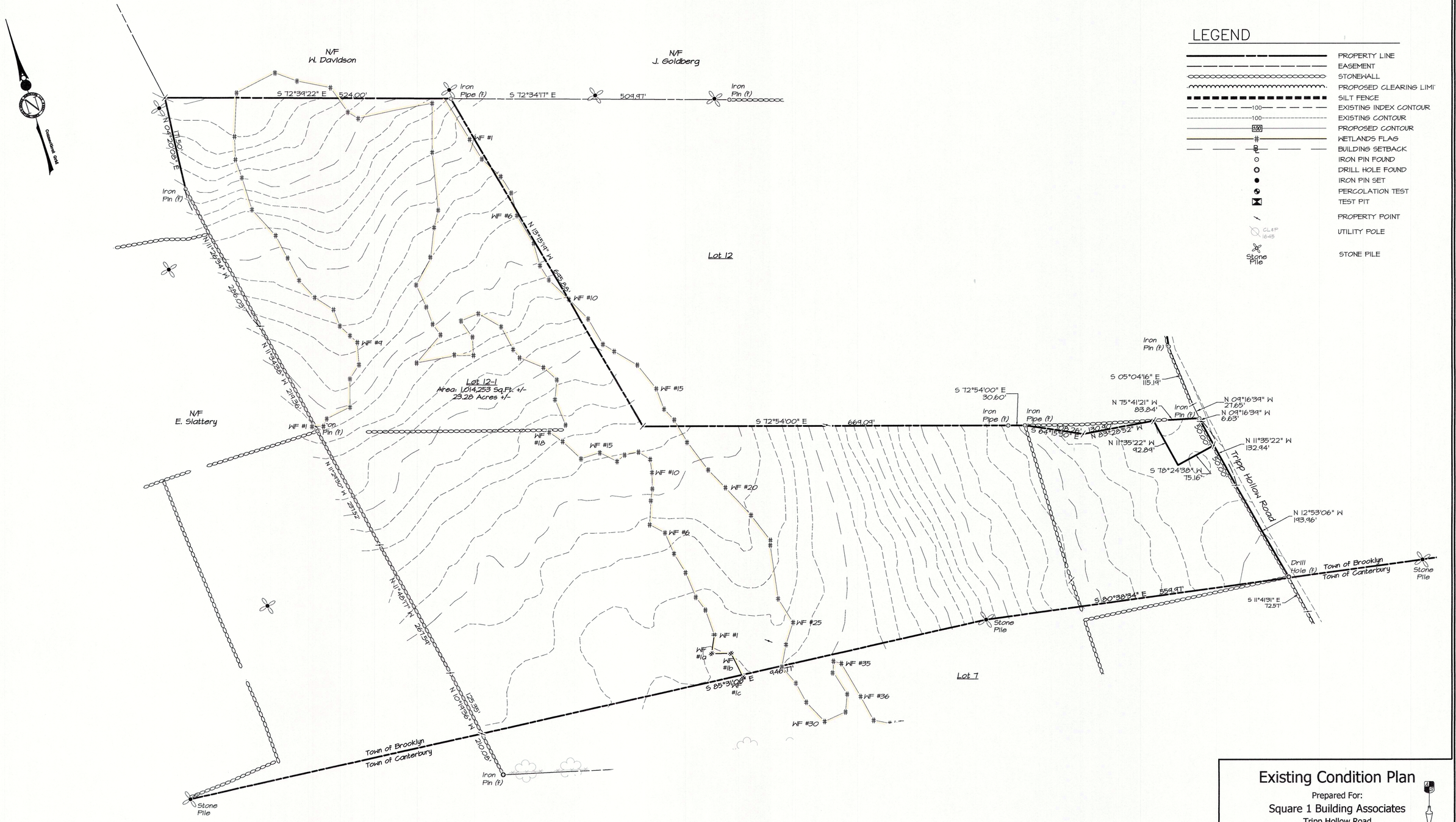
APPROVED BY THE BROOKLYN
PLANNING AND ZONING COMMISSION

CHAIRMAN DATE

Expiration date per section 8.26C of the Connecticut General Statutes. Date: _____

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.

Certified Soil Scientist



LEGEND

- PROPERTY LINE
- EASEMENT
- STONEWALL
- PROPOSED CLEARING LIMI
- SILT FENCE
- EXISTING INDEX CONTOUR
- EXISTING CONTOUR
- PROPOSED CONTOUR
- WETLANDS FLAG
- BUILDING SETBACK
- IRON PIN FOUND
- DRILL HOLE FOUND
- IRON PIN SET
- PERCOLATION TEST
- TEST PIT
- PROPERTY POINT
- UTILITY POLE
- STONE PILE

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
- Survey Type: Existing Condition Plan
- Boundary Determination: Resurvey
- Intent: 2 Lot Re-Subdivision

2. Parcels shown as 23, Block 109 on Assessors Tax Map 30 of the Plainfield Assessors Office

3. Property is owned by Ellis Sage and Jeff & Stephanie Bellavance, Plainfield, Connecticut

Map References

1. Perimeter Survey - First Time Split, Prepared for Shane Pollock, Tripp Hollow Road, Brooklyn/Canterbury, Connecticut, Dated: September 2016, Scaled: 1"=80', Prepared by Archer Surveying LLC

2. 6 Lot Conservation Subdivision Prepared for Square 1 Building Associates, Tripp Hollow Road, Brooklyn, Connecticut, Dated: December 2016, Scaled: 1"=50', Prepared by Archer Surveying LLC

3. Boundary Line Modification Prepared for Square 1 Building Associates, Tripp Hollow Road, Brooklyn, Connecticut, Dated: January 2020, Scaled: 1"=40', Prepared by Archer Surveying LLC

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

Paul M. Archer LLS #10013 Date

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

Existing Condition Plan

Prepared For:

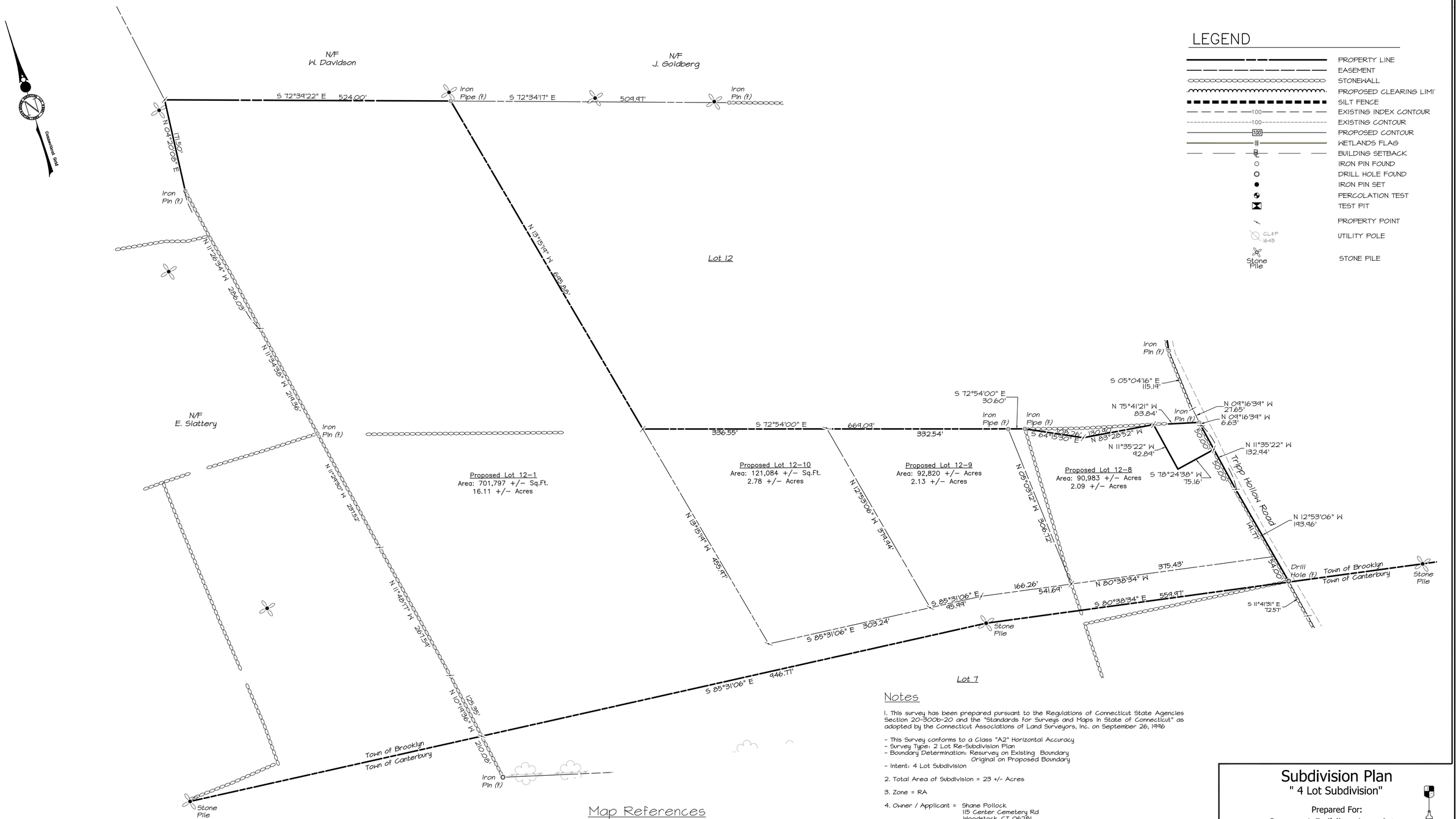
Square 1 Building Associates

Tripp Hollow Road
Brooklyn, Connecticut

DRAWING SCALE: 1"=80' (0 80 160)

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

Sheet No.	Project No.	Date:
2 OF 8	1783	September 3, 2020



LEGEND

- PROPERTY LINE
- EASEMENT
- STONEWALL
- PROPOSED CLEARING LIMI
- SILT FENCE
- EXISTING INDEX CONTOUR
- EXISTING CONTOUR
- PROPOSED CONTOUR
- WETLANDS FLAG
- BUILDING SETBACK
- IRON PIN FOUND
- DRILL HOLE FOUND
- IRON PIN SET
- PERCOLATION TEST
- TEST PIT
- PROPERTY POINT
- UTILITY POLE
- STONE PILE

Map References

1. Perimeter Survey - First Time Split, Prepared for Shane Pollock, Tripp Hollow Road, Brooklyn/Canterbury, Connecticut, Dated: September 2016, Scaled: 1"=80', Prepared by Archer Surveying LLC

2. 6 Lot Conservation Subdivision Prepared for Square 1 Building Associates, Tripp Hollow Road, Brooklyn, Connecticut, Dated: December 2016, Scaled: 1"=50', Prepared by Archer Surveying LLC

3. Boundary Line Modification Prepared for Square 1 Building Associates, Tripp Hollow Road, Brooklyn, Connecticut, Dated: January 2020, Scaled: 1"=40', Prepared by Archer Surveying LLC

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 "A2" Horizontal Accuracy
- Survey Type: 2 Lot Re-Subdivision Plan
- Boundary Determination: Resurvey on Existing Boundary
  Original on Proposed Boundary
- Intent: 4 Lot Subdivision

2. Total Area of Subdivision = 23 +/- Acres

3. Zone = RA

4. Owner / Applicant = Shane Pollock
   115 Center Cemetery Rd
   Woodstock, CT 06281

5. Parcel is shown as Lot #12-1 on Assessor's Map #7

6. Parcel is not within 500 feet of a Town line

7. This Subdivision does not include land areas within the Federal Emergency Management Agency's 100 year flood hazard area

8. Wetlands shown were delineated by and field located by Archer Surveying

9. There are not known endangered species or species of special concern on the subject property nor within 2 miles of the subject property per the December 2006 Natural Diversity Data Base Mapping

10. Parcel does not lie within an aquifer protection area

11. The Subdivision Regulations of the Town of Brooklyn are a part of this plan. Approval of this plan is contingent on completion of the requirements of said regulations, excepting any variances or modifications are on file in the office of the commission.

12. North orientation, bearings and coordinate values shown are based on North American Datum of 1983 (NAD83)

13. Passive Solar Energy techniques were considered in the design of the subdivision

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

Paul M. Archer LLS #70013 Date

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

Subdivision Plan

" 4 Lot Subdivision"

Prepared For:

Square 1 Building Associates

Tripp Hollow Road
Brooklyn, Connecticut

DRAWING SCALE: 1"=80' (0 — 80 — 160)

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

Sheet No.	Project No.	Date:
3 OF 8	1783	September 3, 2020

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:

	PERCENT PASSING	
SIEVE SIZE	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..

CONCEPT SEPTIC SYSTEM DESIGN

LOT 12–8
PRIMARY LEACHING AREA
3 BEDROOM RESIDENCE
PERCOLATION RATE: 13.3 MIN./INCH (NDDH FILE #21000003)
LEACHING AREA REQUIRED: 675 SF

USE TRADITIONAL TRENCH
EFFECTIVE LEACHING AREA OF LEACHING TRENCH 3.0 SF/LF
REQUIRED LENGTH = 675 SF / 3 SF/LF = 225 LF

MLSS CALCULATION
HYDRAULIC FACTORS
DEPTH TO RESTRICTIVE LAYER = 28"
SLOPE = 4.0%
HYDRAULIC FACTOR (HF) = 34
FLOW FACTOR (FF) = 1.5
PERCOLATION FACTOR (PF) = 1.25 (10.1 TO 20.0 MIN./INCH)
MLSS REQUIRED: 34 x 1.5 x 1.25 = 63.75 LF

PROPOSED SYSTEM
USE 2 ROWS OF 114 LF
LEACHING AREA PROVIDED = 684 SF

RESERVE LEACHING AREA
USE SAME AS PRIMARY SYSTEM

LOT 12–9
PRIMARY LEACHING AREA
3 BEDROOM RESIDENCE
PERCOLATION RATE: 10 MIN./INCH (NDDH FILE #21000003)
LEACHING AREA REQUIRED: 495 SF

USE TRADITIONAL TRENCH
EFFECTIVE LEACHING AREA OF LEACHING TRENCH 3.0 SF/LF
REQUIRED LENGTH = 495 SF / 3 SF/LF = 165 LF

MLSS CALCULATION
HYDRAULIC FACTORS
DEPTH TO RESTRICTIVE LAYER = 24"
SLOPE = 10.5%
HYDRAULIC FACTOR (HF) = 26
FLOW FACTOR (FF) = 1.5
PERCOLATION FACTOR (PF) = 1.00 (UP TO 10.0 MIN./INCH)
MLSS REQUIRED: 26 x 1.5 x 1.00 = 39 LF

PROPOSED SYSTEM
USE 2 ROWS OF 84 LF
LEACHING AREA PROVIDED = 504 SF

RESERVE LEACHING AREA
USE SAME AS PRIMARY SYSTEM

Lot 12-8

TP 1-A
Mottles: 28"
Ground Water: N/O
Roots: 28"
Ledge: N/O
0-11" Topsoil
11-28" OB Very Fine Sandy Loam
28-86" GR Mottled Sandy Loam Till

TP 1-B
Mottles: 28"
Ground Water: N/0
Roots: 28"
Ledge: N/0
0-10" Topsoil
10-28" OB Very Fine Sandy Loam
28-91" GR Mottled Sandy Loam Till

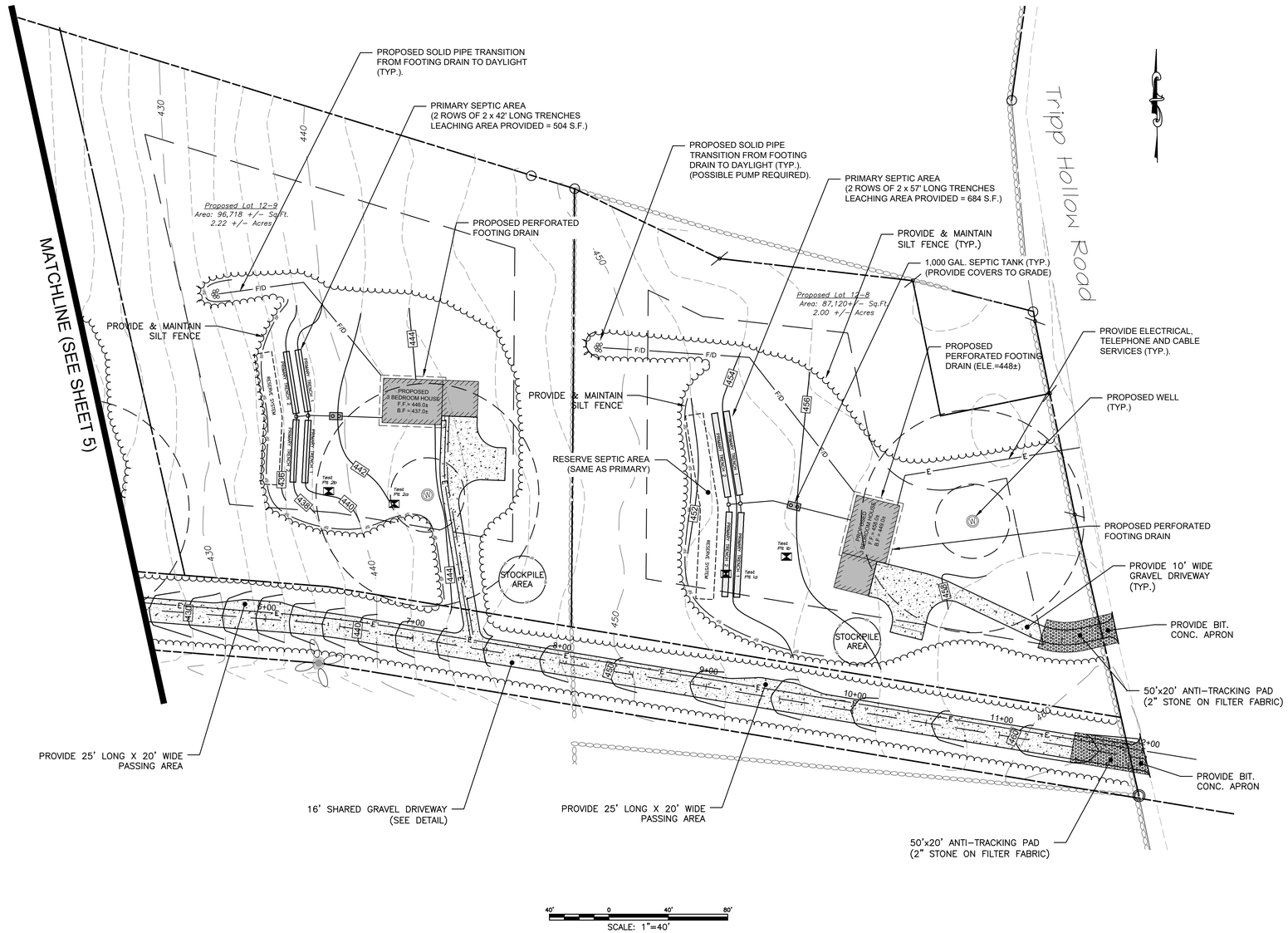
Perc 1A
10:36 3"
10:46 5"
10:56 7 ½"
11:05 8 ¾"
11: 15 9 ½"
11:25 10¼"
13.33 minutes/inch

Lot 12-9

TP 2-A
Mottles: 24"
Ground Water: N/0
Roots: 24"
Ledge: N/0
0-8" Topsoil
8-24" OB Fine Sandy Loam
24-92" GR Mottled Sandy Loam Till

TP 2-B
Mottles: 26"
Ground Water: N/0
Roots: 26"
Ledge: N/0
0-9" Topsoil
9-26" OB Fine Sandy Loam
26-91" GR Mottled Sandy Loam Till

Perc 2A
1 :38 2"
1 :48 5 ¼"
1:58 7½"
2:08 9"
2:18 10"
10.0 minutes/inch



LEGEND

- PROPERTY LINE
- EASEMENT
- STONEWALL
- BOUNDARY STONEWALL
- STONEWALL REMAINS
- 100 YEAR FLOOD LIMIT
- EXISTING TREELINE
- PROPOSED CLEARING LIMITS
- SILT FENCE
- STAKED HAYBALES
- EXISTING INDEX CONTOUR
- EXISTING CONTOUR
- PROPOSED CONTOUR
- WETLANDS FLAG
- BUILDING SETBACK
- IRON PIN FOUND
- DRILL HOLE FOUND
- MONUMENT FOUND
- IRON PIN SET
- DRILL HOLE SET
- MONUMENT SET
- PERCOLATION TEST
- TEST PIT
- PROPERTY POINT
- UTILITY POLE (CL&P 16-45)

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

Robert A. DeLuca, P.E. #18756 Date

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

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

No.	DATE	REVISION

SQUARE 1 BUILDING ASSOCIATES, LLC

4-LOT SUBDIVISION
BROOKLYN, CT

GRADING & CONCEPT SITE DESIGN

Project No. CLA–6503
Proj. Engineer D.H.
Date: 08/24/20
Sheet No. 4

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:

	PERCENT PASSING	
SIEVE SIZE	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..

CONCEPT SEPTIC SYSTEM DESIGN

LOT 12–1
PRIMARY LEACHING AREA
3 BEDROOM RESIDENCE
PERCOLATION RATE: 5.7 MIN./INCH (NDDH FILE #21000003)
LEACHING AREA REQUIRED: 495 SF

USE TRADITIONAL TRENCH
EFFECTIVE LEACHING AREA OF LEACHING TRENCH 3.0 SF/LF
REQUIRED LENGTH = 495 SF / 3 SF/LF = 165 LF

MLSS CALCULATION
HYDRAULIC FACTORS
DEPTH TO RESTRICTIVE LAYER = 24" (POSSIBLE LEDGE)
SLOPE = 2.7%
HYDRAULIC FACTOR (HF) = 48
FLOW FACTOR (FF) = 1.5
PERCOLATION FACTOR (PF) = 1.00 (UP TO 10.0 MIN./INCH)
MLSS REQUIRED: 48 x 1.5 x 1.00 = 72 LF

PROPOSED SYSTEM
USE 2ROWS OF 84 LF
LEACHING AREA PROVIDED = 504 SF

RESERVE LEACHING AREA
USE SAME AS PRIMARY SYSTEM

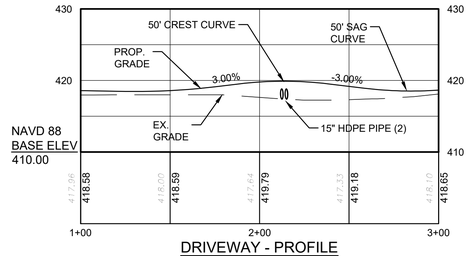
LOT 12–10
PRIMARY LEACHING AREA
3 BEDROOM RESIDENCE
PERCOLATION RATE: 10.0 MIN./INCH (NDDH FILE #21000003)
LEACHING AREA REQUIRED: 495 SF

USE TRADITIONAL TRENCH
EFFECTIVE LEACHING AREA OF LEACHING TRENCH 3.0 SF/LF
REQUIRED LENGTH = 495 SF / 3 SF/LF = 165 LF

MLSS CALCULATION
HYDRAULIC FACTORS
DEPTH TO RESTRICTIVE LAYER = 24" (MOTTLES)
SLOPE = 5.5%
HYDRAULIC FACTOR (HF) = 34
FLOW FACTOR (FF) = 1.5
PERCOLATION FACTOR (PF) = 1.0 (UP TO 10.0 MIN./INCH)
MLSS REQUIRED: 34 x 1.5 x 1.0 = 51.0 LF

PROPOSED SYSTEM
USE 2 ROWS OF 84 LF
LEACHING AREA PROVIDED = 504 SF

RESERVE LEACHING AREA
USE SAME AS PRIMARY SYSTEM



DRIVEWAY - PROFILE
STA 1+00 TO STA 3+00
Horiz. Scale: 1" = 40'
Vert. Scale: 1" = 10'

Lot 12-10

TP-3A
Mottles: 24"
Ground Water: N/0
Roots: 24"
Ledge: N/0
0-6" Topsoil
6-24" OB Fine Sandy Loam
24-82" GR Mottled Sandy Loam Till

TP-3B
Mottles: 25"
Ground Water: N/0
Roots: 25"
Ledge: N/0
0-8" Topsoil
8-25" OB Fine Sandy Loam
25-84" GR Mottled Sandy Loam Till

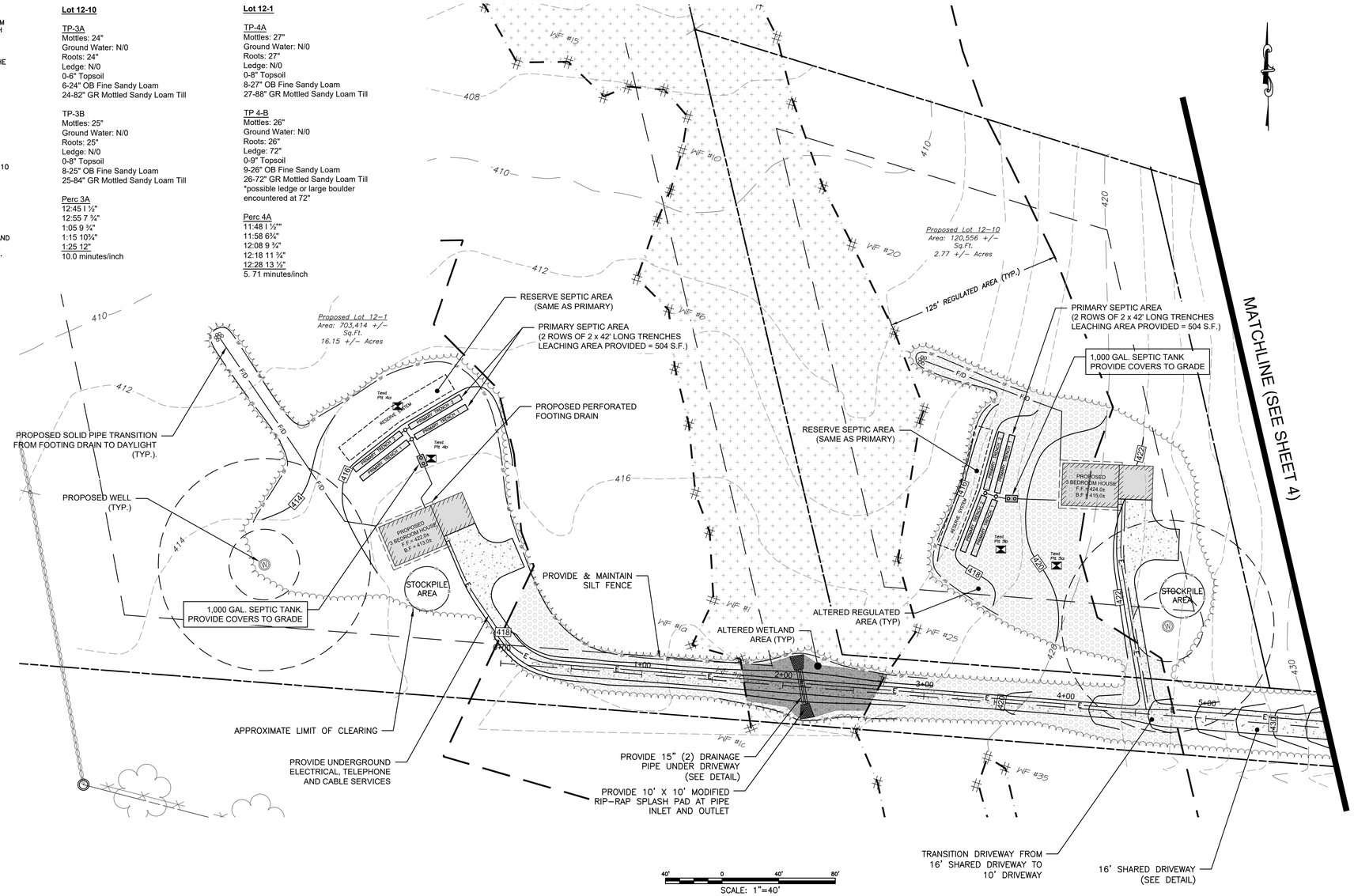
Perc 3A
12:45 l ½"
12:55 7 ¾"
1:05 9 ¾"
1:15 10¾"
1:25 12"
10.0 minutes/inch

Lot 12-1

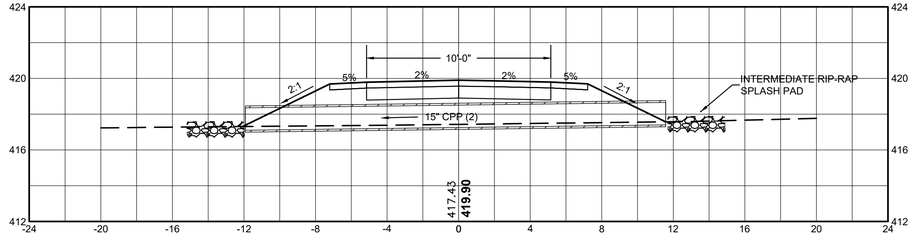
TP-4A
Mottles: 27"
Ground Water: N/0
Roots: 27"
Ledge: N/0
0-8" Topsoil
8-27" OB Fine Sandy Loam
27-88" GR Mottled Sandy Loam Till

TP 4-B
Mottles: 26"
Ground Water: N/0
Roots: 26"
Ledge: 72"
0-9" Topsoil
9-26" OB Fine Sandy Loam
26-72" GR Mottled Sandy Loam Till
"possible ledge or large boulder encountered at 72"

Perc 4A
11:48 l ½""
11:58 6¾"
12:08 9 ¾"
12:18 11 ¾"
12:28 13 ½"
5. 71 minutes/inch



Driveway - Cross Section at Wetland Crossing
Sta. 2+13.00



LEGEND

PROPERTY LINE
EASEMENT
STONEWALL
BOUNDARY STONEWALL
STONEWALL REMAINS
100 YEAR FLOOD LIMIT
EXISTING TREELINE
PROPOSED CLEARING LIMITS
SILT FENCE
STAKED HAYBALES
EXISTING INDEX CONTOUR
EXISTING CONTOUR
PROPOSED CONTOUR
WETLANDS FLAG
BUILDING SETBACK
IRON PIN FOUND
DRILL HOLE FOUND
MONUMENT FOUND
IRON PIN SET
DRILL HOLE SET
MONUMENT SET
PERCOLATION TEST
TEST PIT
PROPERTY POINT
CL&P 1645
UTILITY POLE

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

Robert A. DeLuca, P.E. #18756 Date

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

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

No.	DATE	REVISION

SQUARE 1 BUILDING ASSOCIATES, LLC

4-LOT SUBDIVISION
BROOKLYN, CT

GRADING & CONCEPT SITE DESIGN

Project No. CLA–6503
Proj. Engineer D.H.
Date: 08/24/20
Sheet No. 5

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.

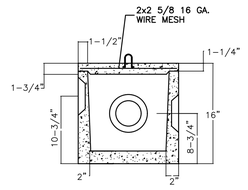
PERMANENT VEGETATIVE COVER

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.

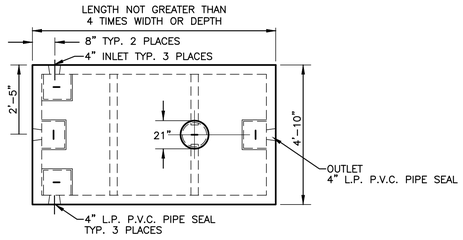
- APPLY AGRICULTURAL GROUND LIMESTONE AT THE RATE OF TWO TONS PER ACRE OR 100 LBS. PER 1000 S.F.
- APPLY 10-10-10 FERTILIZER OR EQUIVALENT AT A RATE OF 300 LBS. PER ACRE OR 7.5 LBS. PER 1000 S.F.
- WORK LIMESTONE AND FERTILIZER INTO THE SOIL TO A DEPTH OF 4 INCHES.
- INSPECT SEEDBED BEFORE SEEDING.
-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

TYPICAL SEED MIXTURE

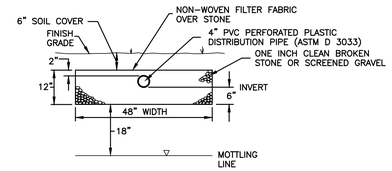
ALL DISTURBED AREAS	LBS./ACRE	LBS./1000 S.F.
KENTUCKY BLUEGRASS	20	0.45
CREEPING RED FESCUE	20	0.45
PERENNIAL RYEGRASS	5	0.10
	45	1.00



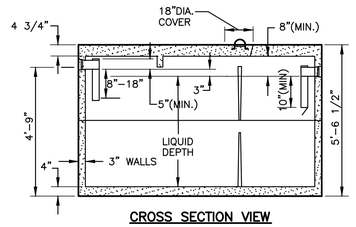
STANDARD D-BOX
NOT TO SCALE



PLAN VIEW

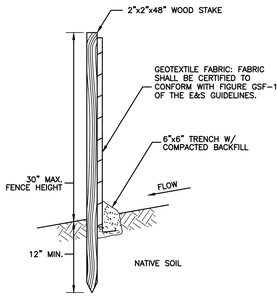


12" x 48" LEACHING TRENCH
NOT TO SCALE

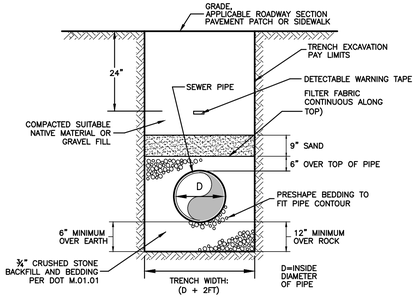


CROSS SECTION VIEW

1,000 GALLON SEPTIC TANK
NOT TO SCALE

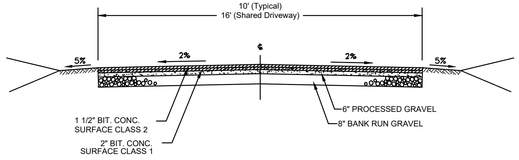


SILT FENCE SECTION
NOT TO SCALE

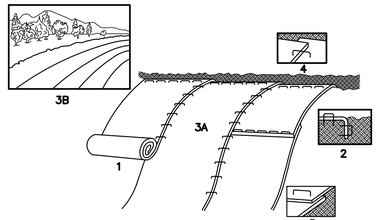


NOTES:
1. D=INSIDE DIAMETER OF PIPE.
2. TRENCH WIDTHS NOTED ARE SET TO ESTABLISH PAY LIMITS ONLY.
3. ALL EXCAVATIONS MUST MEET OSHA STANDARDS.
4. CONTRACTOR TO PROVIDE COMPACTION ON ALL TRENCH BACKFILLS, EXCAVATIONS AND PAVEMENT BASES TO NOT LESS THAN 95% OF THE DRY DENSITY FOR THAT MATERIAL.

TRENCH DETAIL: SANITARY SEWER PIPE
NOT TO SCALE



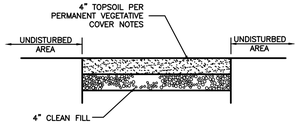
TYPICAL DRIVEWAY CROSS SECTION
NOT TO SCALE



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.

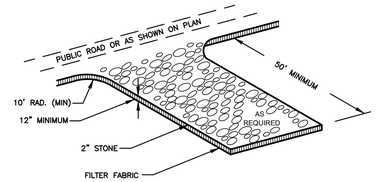
NOTE: ALL PERMANENT EROSION CONTROL BLANKETS ARE TO BE NORTH AMERICAN GREEN BIONET C125BN OR APPROVED EQUAL.

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

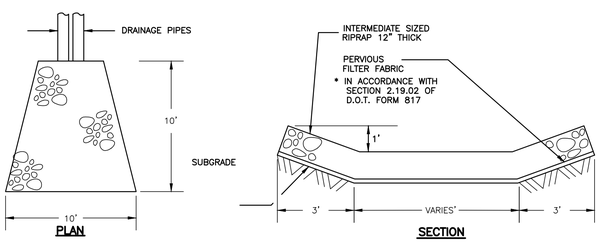


TYPICAL LOAM & SEED SECTION DETAIL (FOR ALL DISTURBED AREAS)

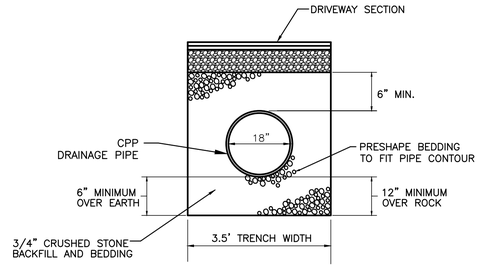
SLOPE STABILIZATION DETAILS
NOT TO SCALE



ANTI-TRACKING PAD DETAIL
NOT TO SCALE



RIP-RAP SPLASH PAD DETAIL
NOT TO SCALE



DRAINAGE PIPE BEDDING DETAIL
NOT TO SCALE

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

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

No.	DATE	REVISION

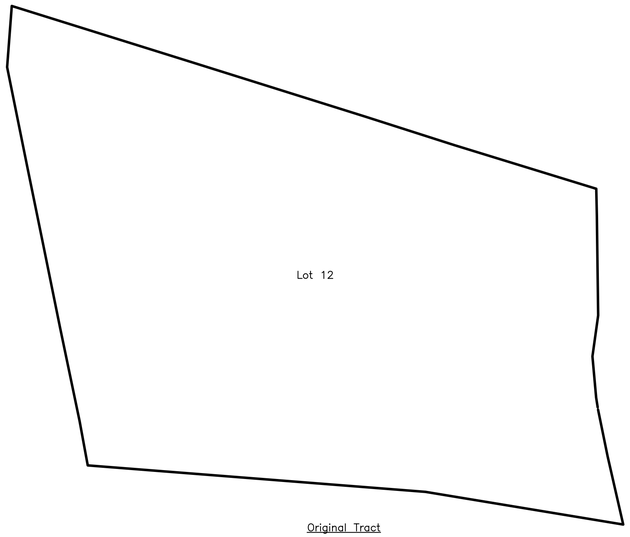
SQUARE 1 BUILDING ASSOCIATES, LLC

4-LOT SUBDIVISION
BROOKLYN, CT

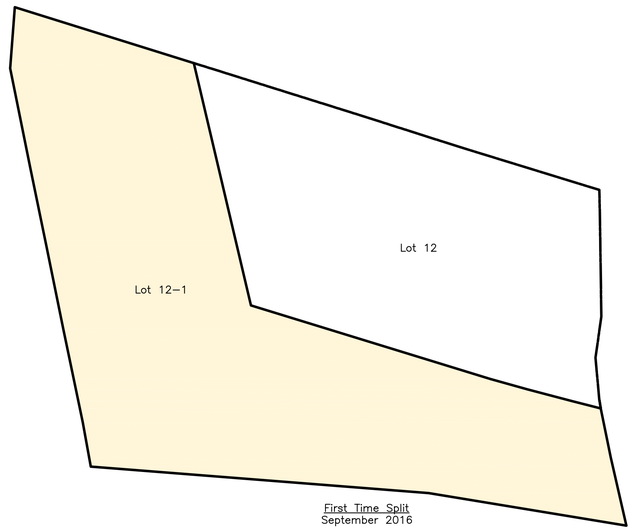
CONSTRUCTION DETAILS

Project No. CLA-6503
Proj. Engineer D.H.
Date: 08/24/20
Sheet No. 6

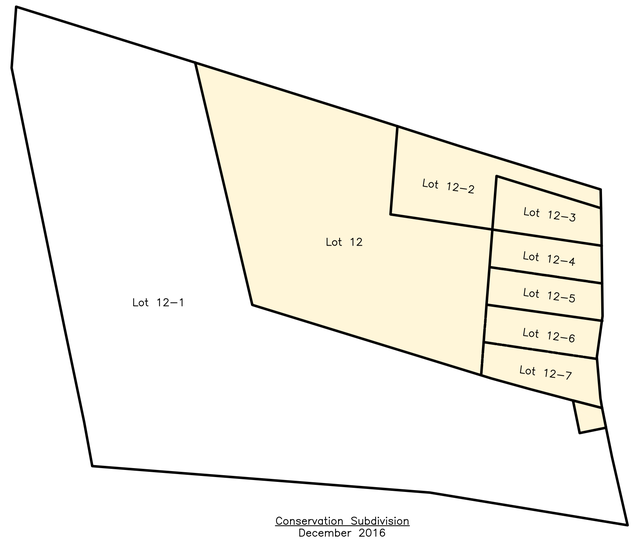
CLA



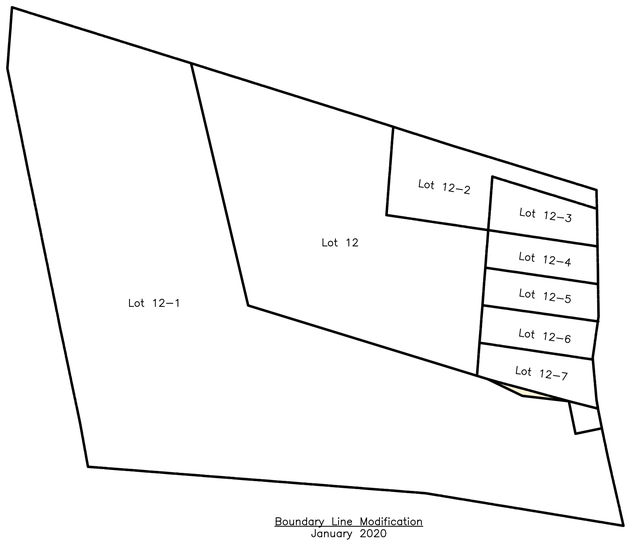
Original Tract



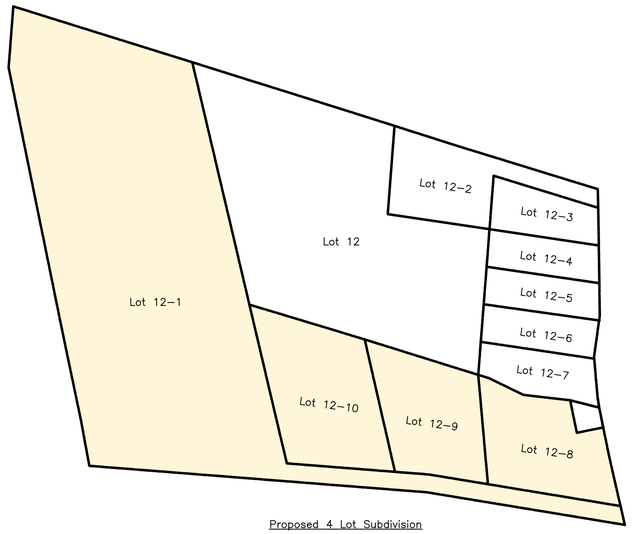
First Time Split
September 2016



Conservation Subdivision
December 2016



Boundary Line Modification
January 2020



Proposed 4 Lot Subdivision

Parcel History Plan

Prepared For:

Square 1 Building Associates

Tripp Hollow Road
Brooklyn, Connecticut

DRAWING SCALE: 1"=80'

0 80 160

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

Sheet No.	Project No.	Date:
7 OF 8	1783	September 3, 2020