

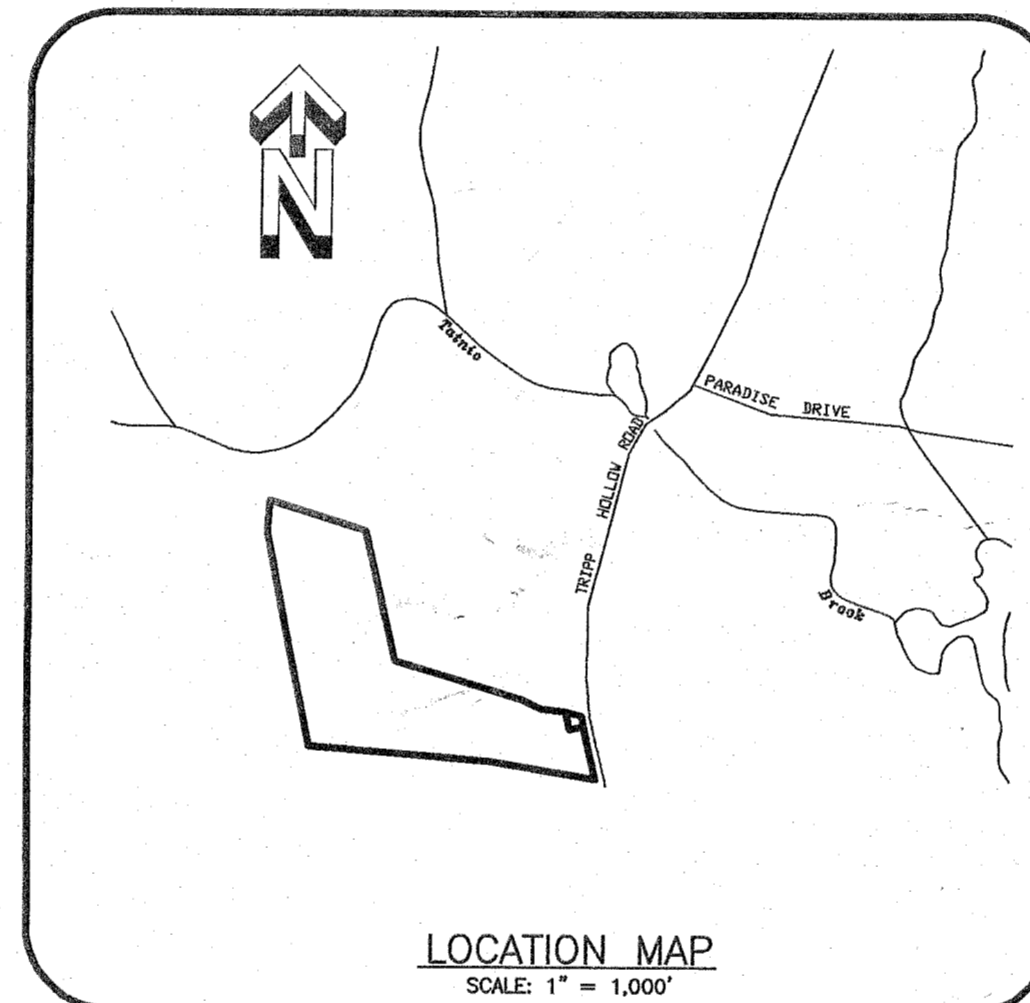
SUBDIVISION APPLICATION

# PROPOSED 4 LOT SUBDIVISION


TRIPP HOLLOW ROAD  
BROOKLYN, CONNECTICUT

PROPERTY OWNER/APPLICANT:  
**SQUARE 1 BUILDING ASSOCIATES**


September 1, 2020



PREPARED BY:



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



**CLA Engineers, Inc.**  
CIVIL • STRUCTURAL • SURVEYING  
317 Main Street Norwich, Connecticut  
(860) 886-1966 Fax (860) 886-9165  
e-mail: cla@claengineers.com

INDEX OF DRAWINGS

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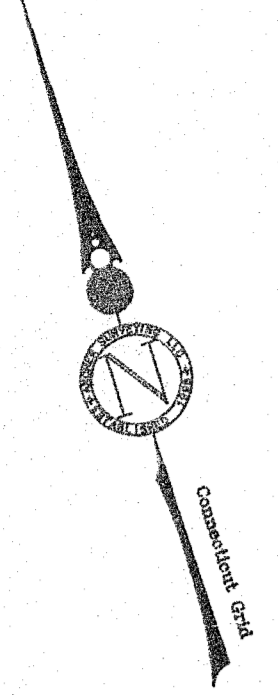
RECEIVED  
DEC 24 2020

APPROVED BY THE BROOKLYN  
INLAND WETLANDS COMMISSION

CHAIRMAN \_\_\_\_\_ DATE \_\_\_\_\_  
Expiration date per section 22A-42A of the Connecticut  
General Statutes. Date: \_\_\_\_\_

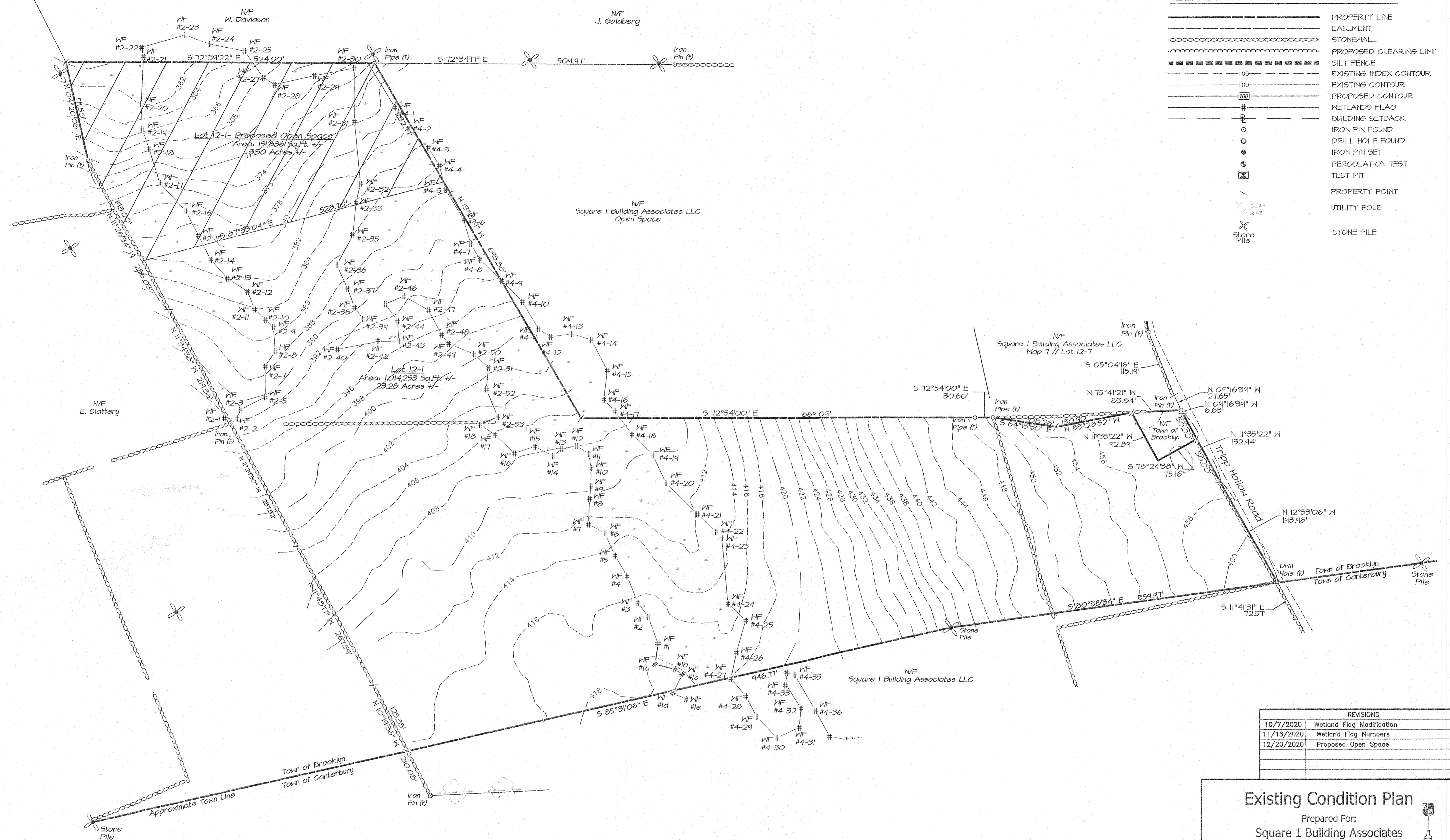
APPROVED BY THE BROOKLYN  
PLANNING AND ZONING COMMISSION

CHAIRMAN \_\_\_\_\_ DATE \_\_\_\_\_  
Expiration date per section 8-26C of the Connecticut  
General Statutes. Date: \_\_\_\_\_



**LEGEND**

- PROPERTY LINE
- EASEMENT
- STONEWALL
- PROPOSED CLEARING LIMIT
- 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 Class "T-2" Vertical Accuracy
  - Survey Type: Existing Condition Plan
  - Boundary Determination: Resurvey
  - Intent: 4 Lot Subdivision
2. Parcels shown as 12-1 on Assessors Tax Map T of the Brooklyn Assessors Office
3. Wetlands were partially flagged by Joseph Theroux and Re-flagged & verified by Bob Russo of GLA Engineers. Field located by Archer Surveying LLC

**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

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.

*R C Russo*  
Certified Soil Scientist

To My Knowledge and Belief, this Map is substantially Correct, as noted in the Surveyor's Seal.

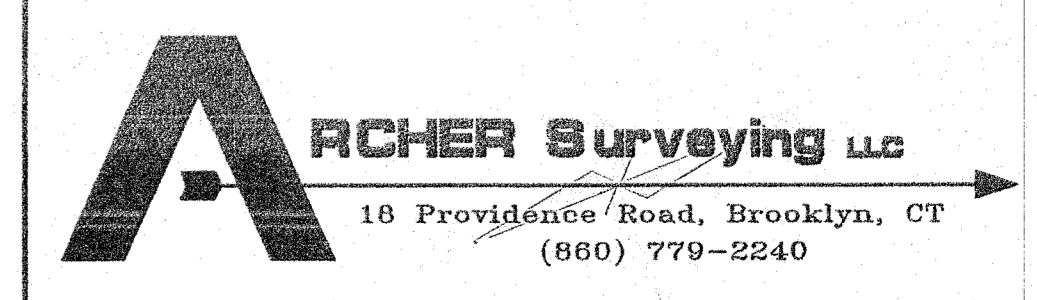
*Paul M. Archer*  
Paul M. Archer L.L.C. 12-20-2020 Date

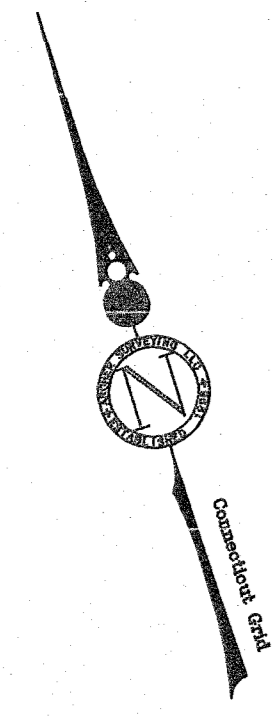
REVISIONS	
10/7/2020	Wetland Flag Modification
11/18/2020	Wetland Flag Numbers
12/20/2020	Proposed Open Space

**Existing Condition Plan**

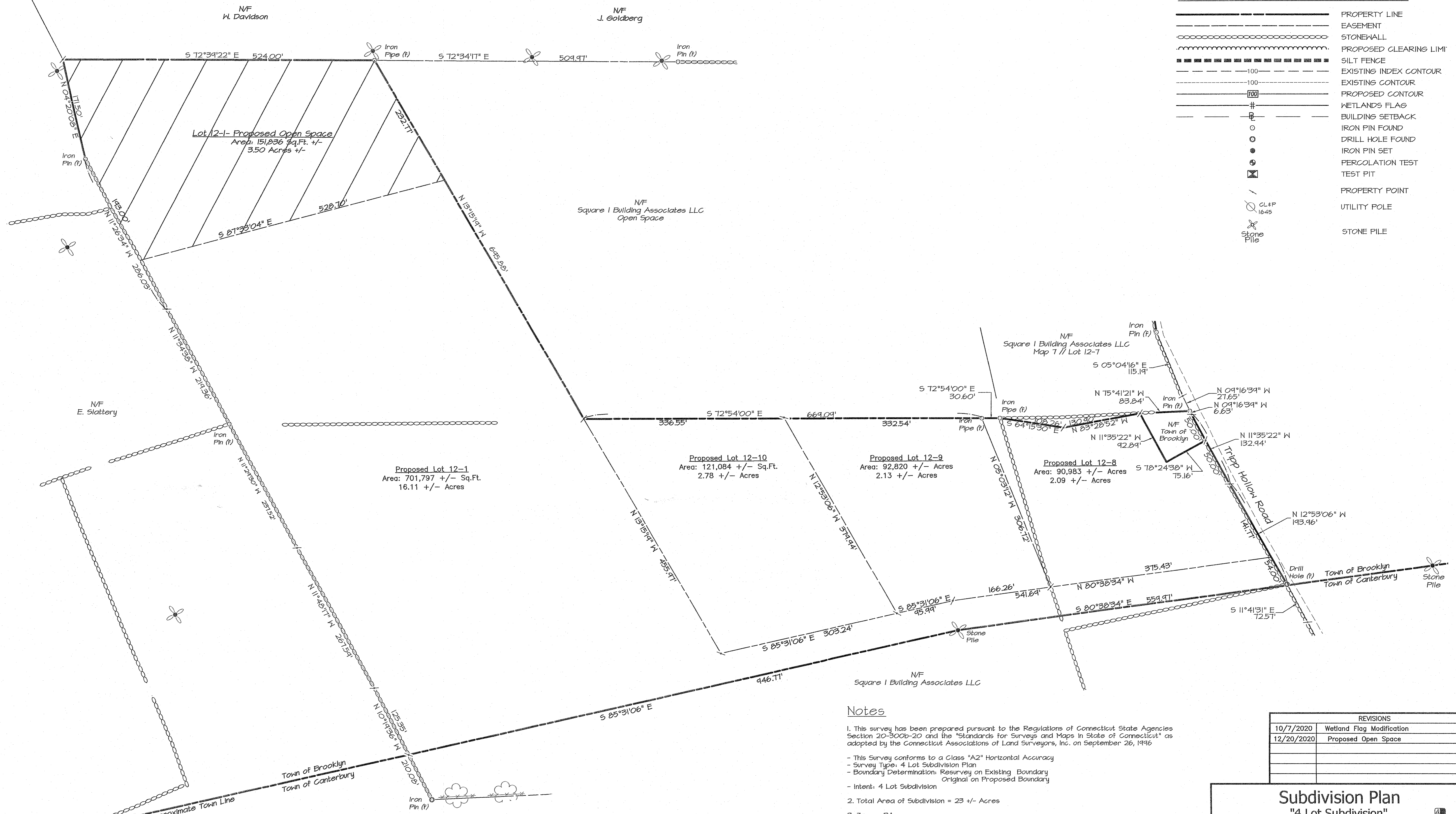
Prepared For:  
Square 1 Building Associates  
Tripp Hollow Road  
Brooklyn, Connecticut

DRAWING SCALE: 1"=80'





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



**Notes**

- This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Section 20-300b-20 and the "Standards for Surveys and Maps in State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996.
- This Survey conforms to a Class "A2" Horizontal Accuracy
- Survey Type: 4 Lot Subdivision Plan
- Boundary Determination: Resurvey on Existing Boundary Original on Proposed Boundary
- Intent: 4 Lot Subdivision
- Total Area of Subdivision = 23 +/- Acres
- Zone = RA
- Owner / Applicant = Shane Pollock  
101 Mackin Drive  
Griswold, CT 06351
- Parcel is shown as Lot #12-1 on Assessor's Map #7
- Parcel is within 500 feet of a Town line
- This Subdivision does not include land areas within the Federal Emergency Management Agency's 100 year flood hazard area
- 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
- Parcel does not lie within an aquifer protection area
- 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.
- North orientation, bearings and coordinate values shown are based on North American Datum of 1983 (NAD83)
- Passive Solar Energy techniques were considered in the design of the subdivision

**Map References**

- 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
- 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
- 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 LLC  
No. 70013  
Date: 12-20-2020

REVISIONS	
10/7/2020	Wetland Flag Modification
12/20/2020	Proposed Open Space

**Subdivision Plan**  
**"4 Lot Subdivision"**

Prepared For:  
**Square 1 Building Associates**  
Tripp Hollow Road  
Brooklyn, Connecticut

DRAWING SCALE: 1"=80'

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

**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	100
#10	70-100	70-100	70-100
#40	10-50*	10-75	10-75
#100	0-20	0-5	0-5
#200	0-5	0-2.5	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 STD-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 3 ROWS OF 75 LF  
 LEACHING AREA PROVIDED = 675 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 3 ROWS OF 55 LF  
 LEACHING AREA PROVIDED = 495 SF

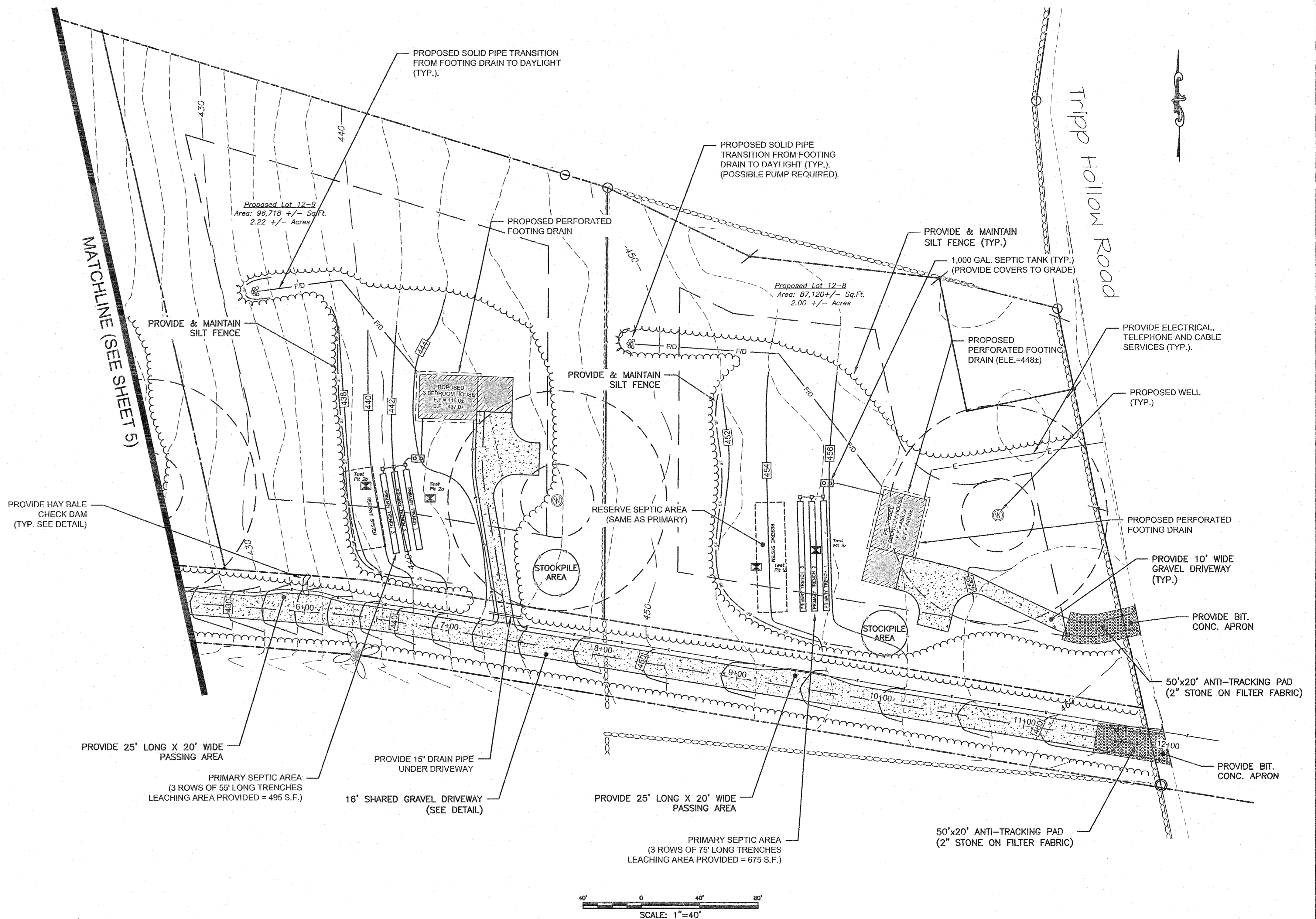
**RESERVE LEACHING AREA**  
 USE SAME AS PRIMARY SYSTEM

Soil Test Data (NDDH File #21000003)  
 Soil Testing Conducted on 8/26/20 by Sherry McGann, R.S. & Sherry Vallone, E.H.S.

Lot 12-8	Lot 12-9
TP 1-A	TP 2-A
Mottles: 28"	Mottles: 24"
Ground Water: N/O	Ground Water: N/O
Roots: 28"	Roots: 24"
Ledge: N/O	Ledge: N/O
0-11" Topsoil	0-4" Topsoil
11-28" OB Very Fine Sandy Loam	8-24" OB Fine Sandy Loam
28-86" GR Mottled Sandy Loam Till	24-92" GR Mottled Sandy Loam Till

TP 1-B	TP 2-B
Mottles: 28"	Mottles: 26"
Ground Water: N/O	Ground Water: N/O
Roots: 26"	Roots: 26"
Ledge: N/O	Ledge: N/O
0-10" Topsoil	0-9" Topsoil
10-28" OB Very Fine Sandy Loam	9-28" OB Fine Sandy Loam
28-91" GR Mottled Sandy Loam Till	26-91" GR Mottled Sandy Loam Till

Perc 1A	Perc 2A
10.36 3"	1.38 2"
10.46 5"	1.48 5 1/4"
10.56 7 1/2"	1.58 7 1/4"
11.05 8 3/4"	2.08 9"
11.15 9 1/2"	2.18 10"
11.25 10 1/2"	10.0 minutes/inch
13.33 minutes/inch	



**LEGEND**

	PROPERTY LINE
	EASEMENT
	STONE WALL
	BOUNDARY STONE WALL
	STONE WALL 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

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 CIVIL • STRUCTURAL • SURVEYING

317 Main Street Norwich, CT 06360  
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No.	DATE	REVISION
4	12/10/20	NCCG COMMENTS ADDRESSED
3	11/23/20	NCCG COMMENTS ADDRESSED
2	09/28/20	WETLAND FLAGS CALLOUTS ADDED
1	09/20/20	VARIOUS MODIFICATIONS

SQUARE 1 BUILDING ASSOCIATES, LLC  
 Project No. CLA-6503  
 Proj. Engineer D.H.  
 Date: 08/24/20  
 Sheet No. 4 of 8

**4-LOT SUBDIVISION**  
 BROOKLYN, CT

GRADING & CONCEPT SITE DESIGN

**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:

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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	100
#10	70-100	70-100	70-100
#40	10-30*	10-75	10-75
#100	0-20	0-5	0-5
#200	0-5	0-2.5	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**

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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 2 ROWS 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 LF

**PROPOSED SYSTEM**  
USE 3 ROWS OF 55 LF  
LEACHING AREA PROVIDED = 495 SF

**RESERVE LEACHING AREA**  
USE SAME AS PRIMARY SYSTEM

Soil Test Data (NDDH File #21000003)  
Soil Testing Conducted on 8/28/20 by Sherry McGann, R.S. & Sherry Vallone, E.H.S.

**Lot 12-10**

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

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

**Perc 3A**

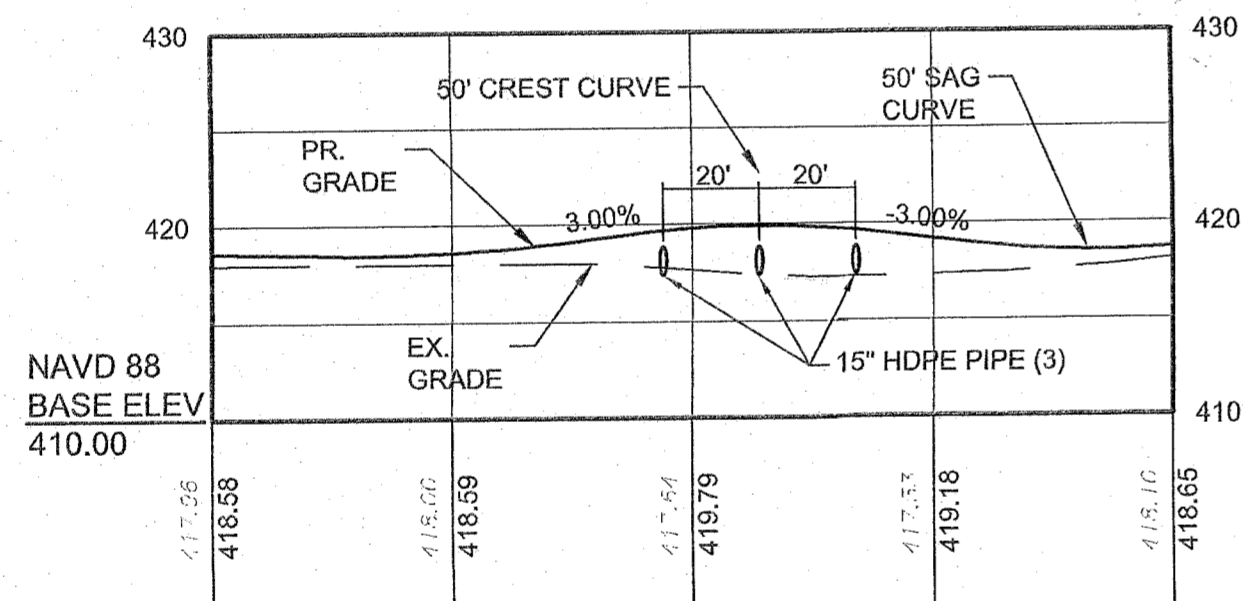
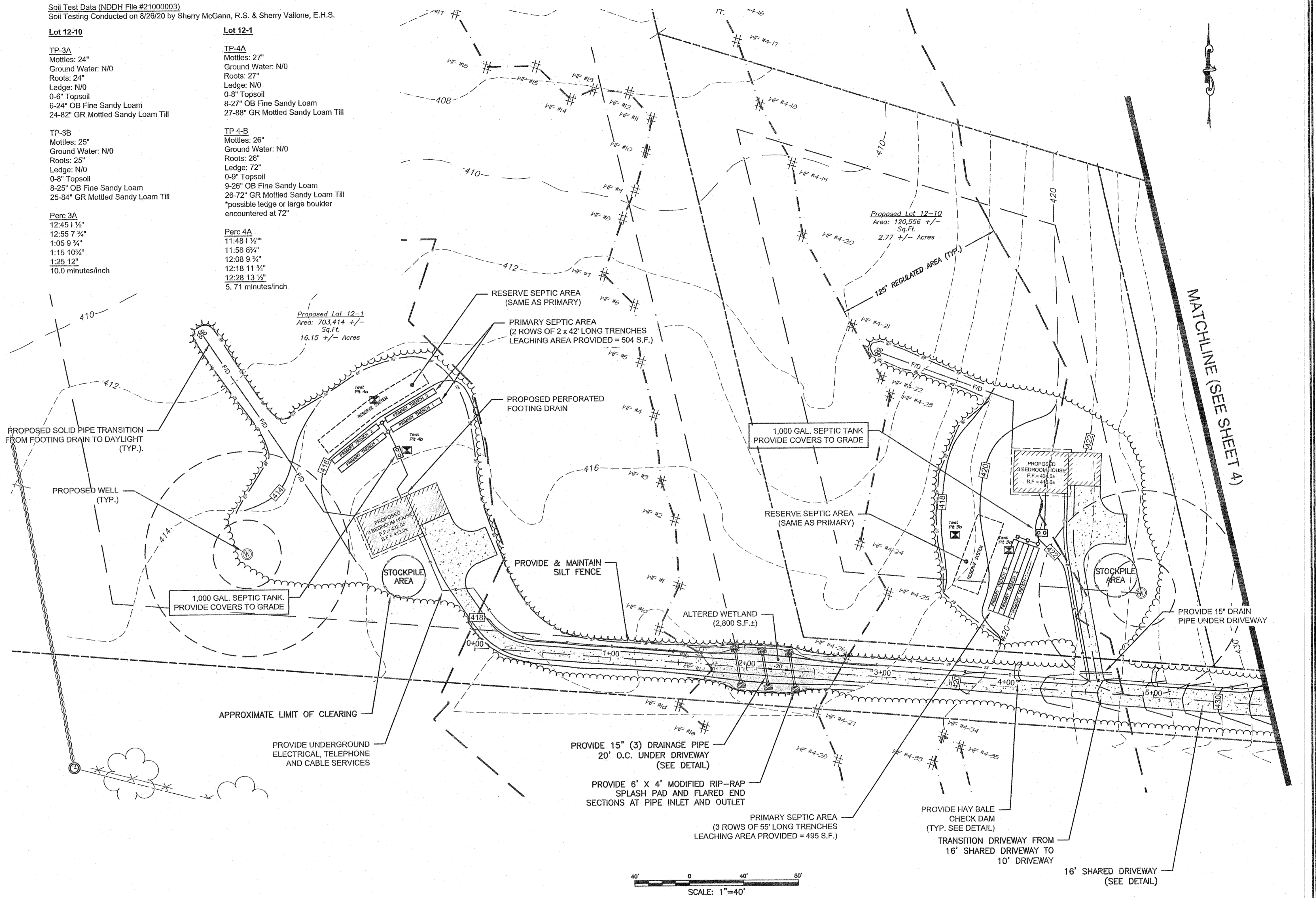
12:45 1 1/2"  
12:55 7 3/4"  
1:05 9 3/4"  
1:15 10 3/4"  
1:25 12"  
10.0 minutes/inch

**Lot 12-1**

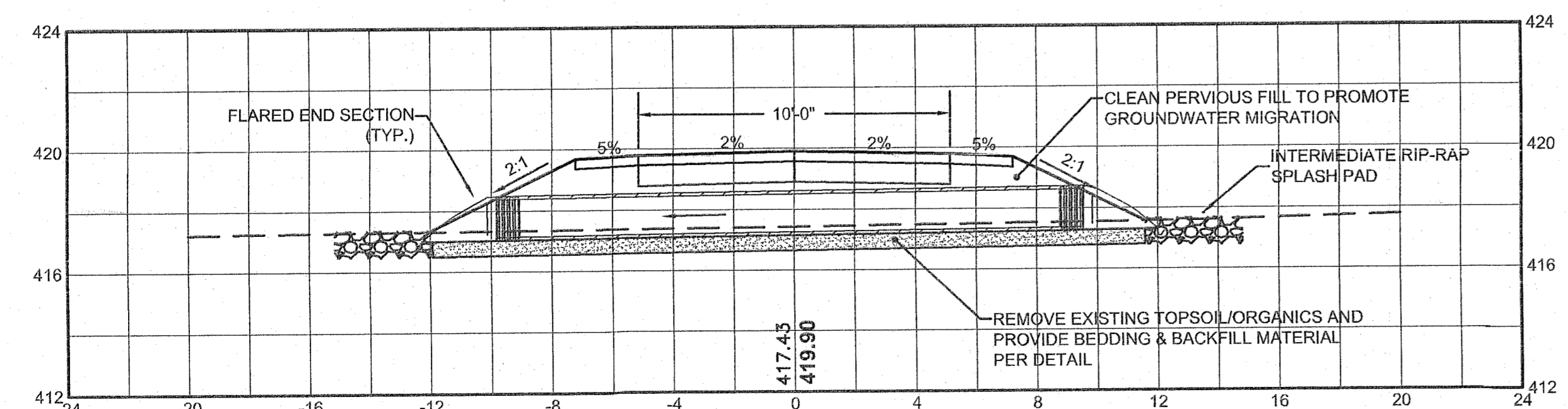
TP-4A  
Mottles: 27"  
Ground Water: N/O  
Roots: 27"  
Ledge: N/O  
0-8" Topsoil  
8-27" OB Fine Sandy Loam  
27-88" GR Mottled Sandy Loam Till

TP-4B  
Mottles: 26"  
Ground Water: N/O  
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 1 1/2"  
11:58 6 3/4"  
12:08 9 3/4"  
12:18 11 3/4"  
12:28 13 1/2"  
5.71 minutes/inch



**Driveway - Cross Section at Wetland Crossing (Typical)**



**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
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No.	DATE	REVISION
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**SQUARE 1 BUILDING ASSOCIATES, LLC**  
Project No. CLA-6503  
Proj. Engineer D.H.  
Date: 08/24/20  
Sheet No. 5 of 8

**4-LOT SUBDIVISION**  
BROOKLYN, CT  
GRADING & CONCEPT SITE DESIGN

**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 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 ON SITE 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 LOOSENE 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.

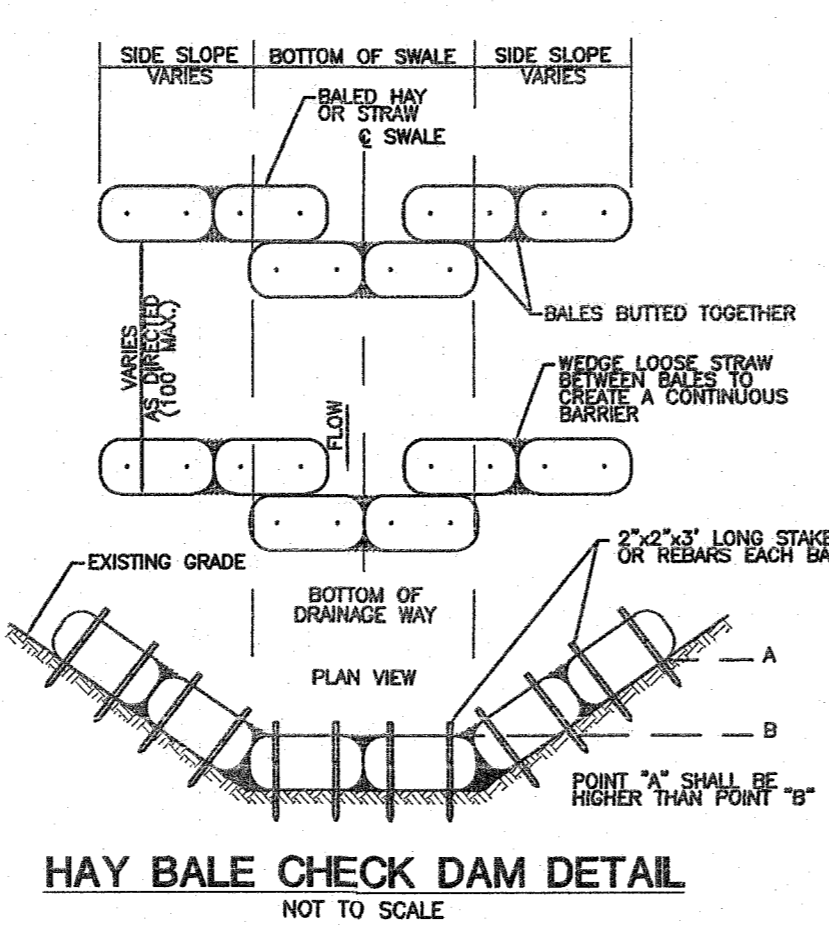
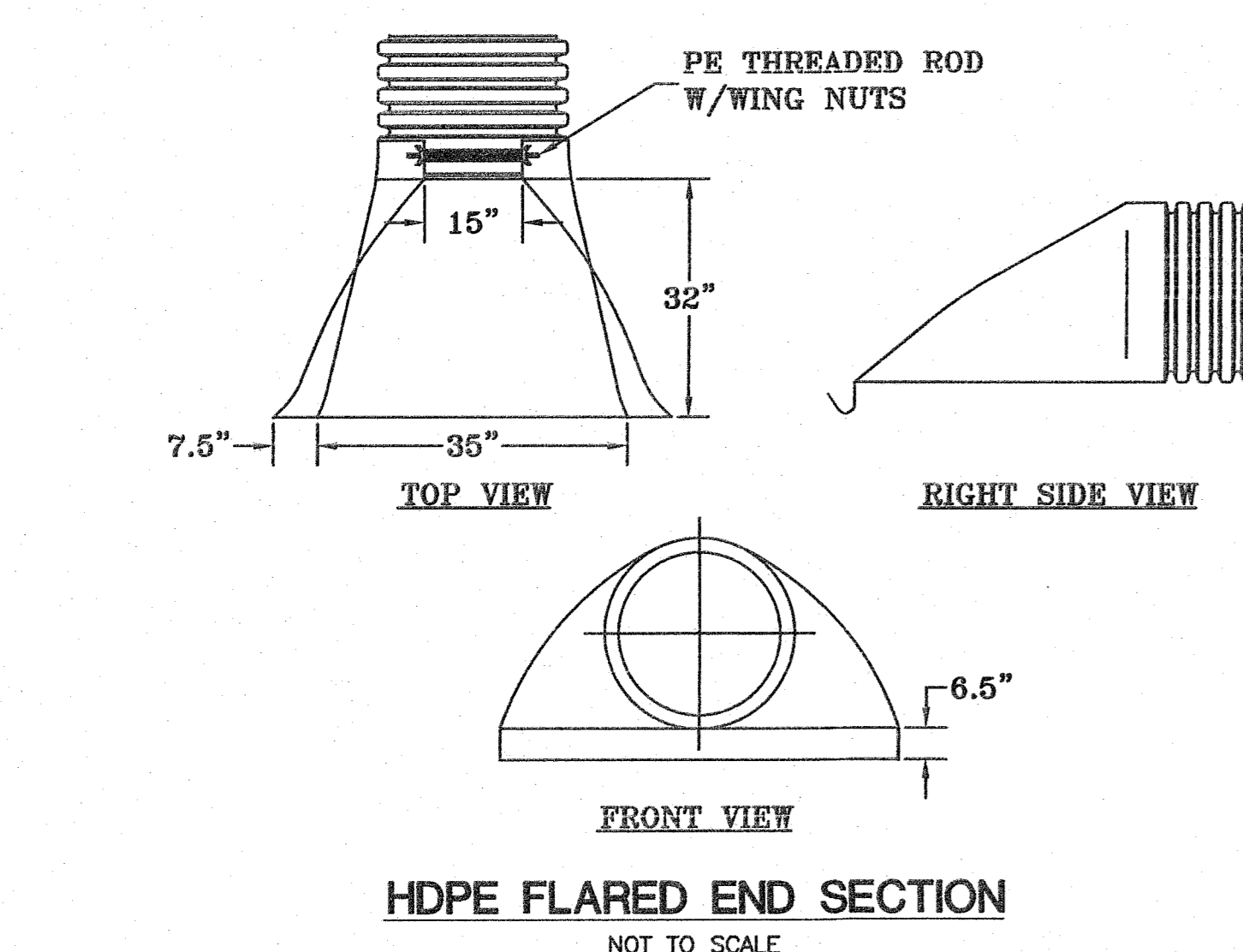
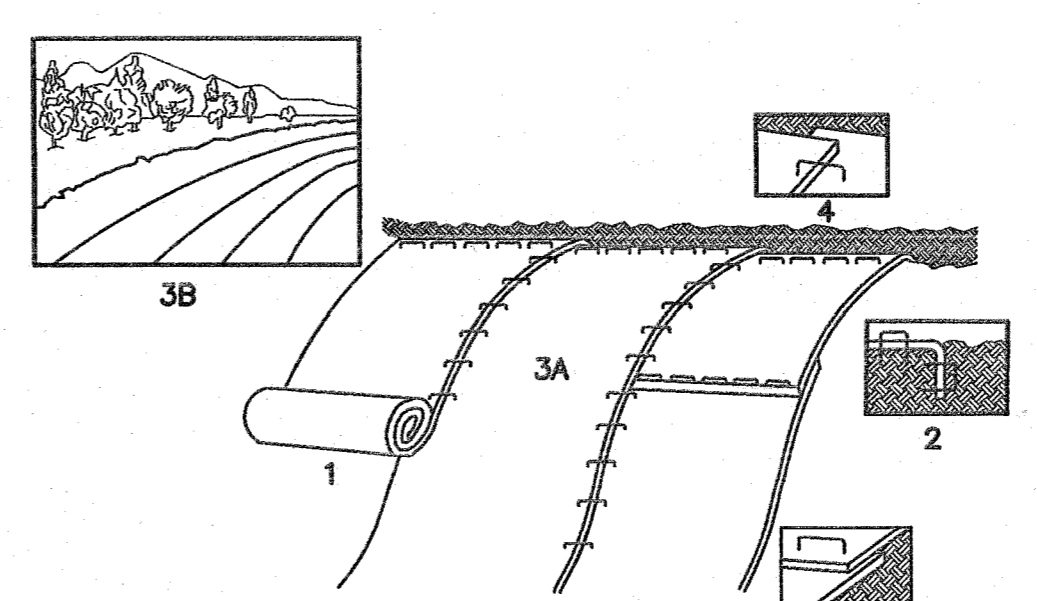
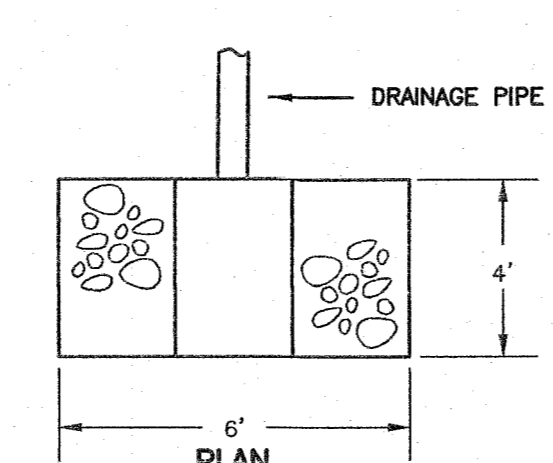
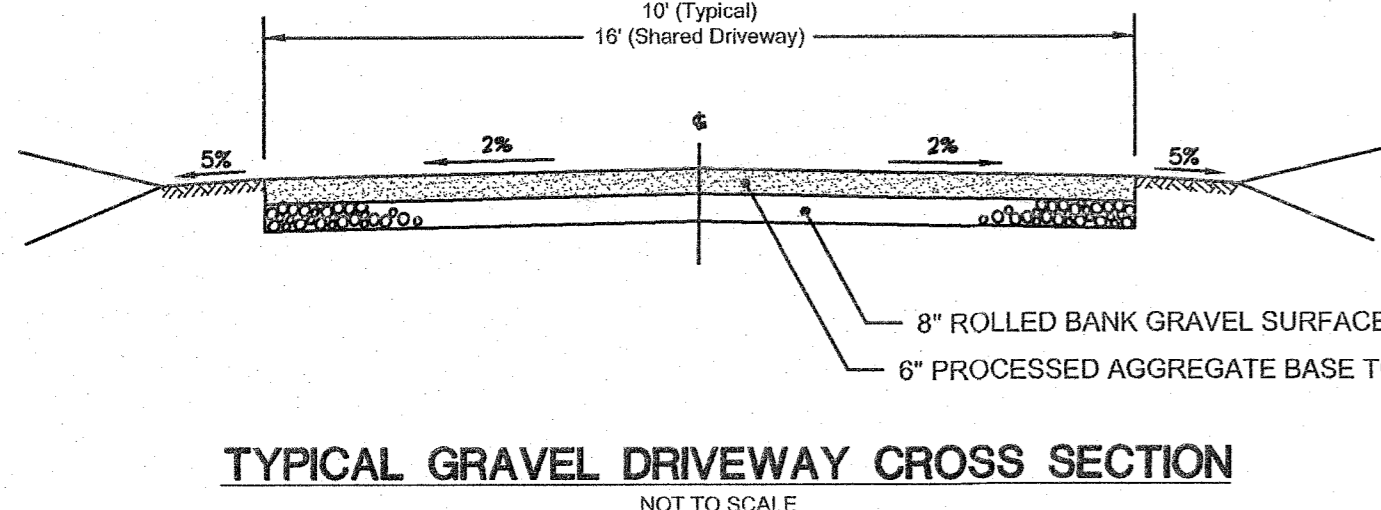
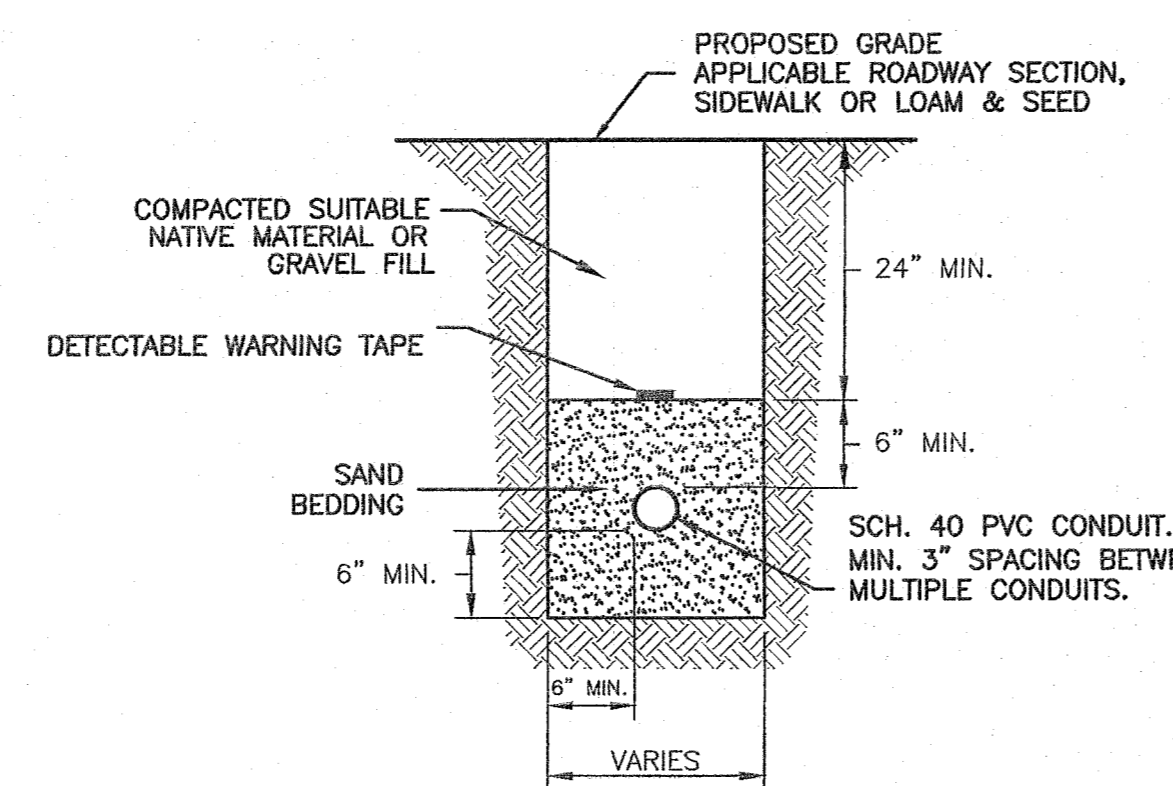
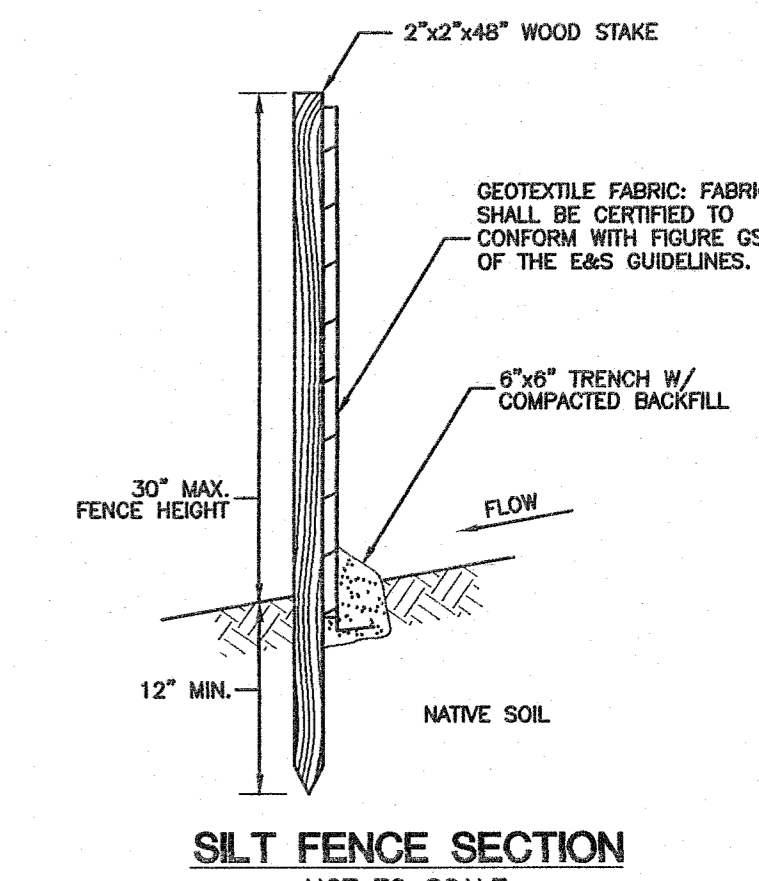
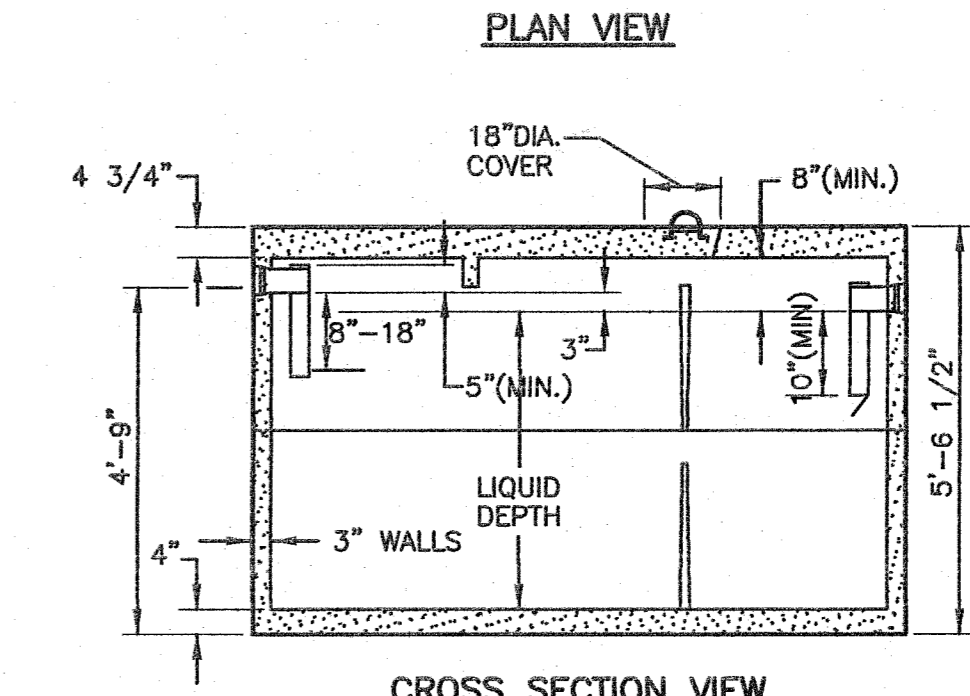
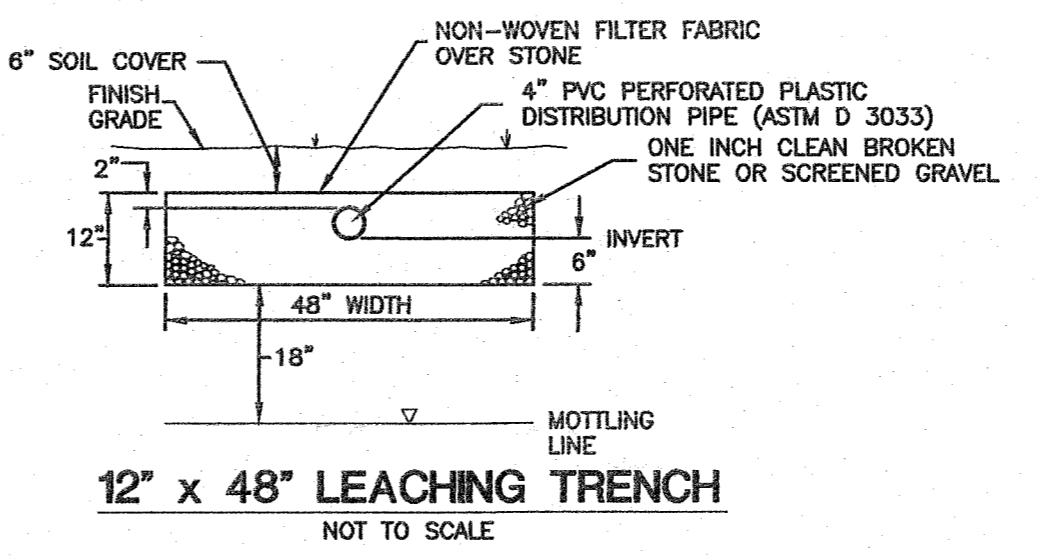
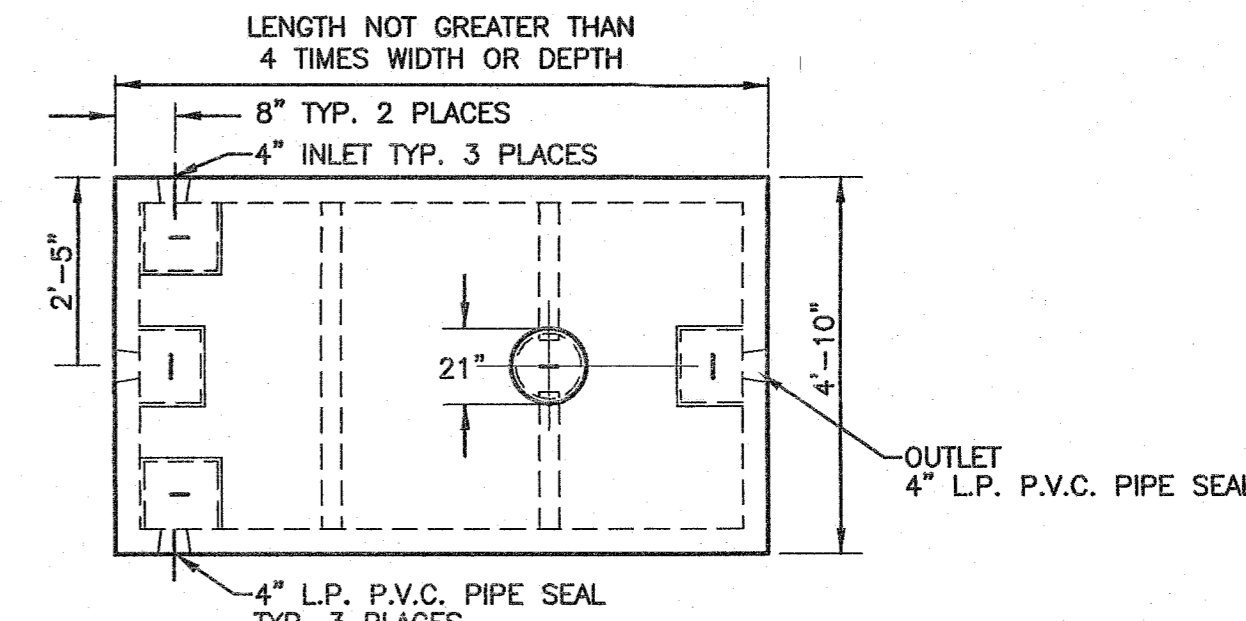
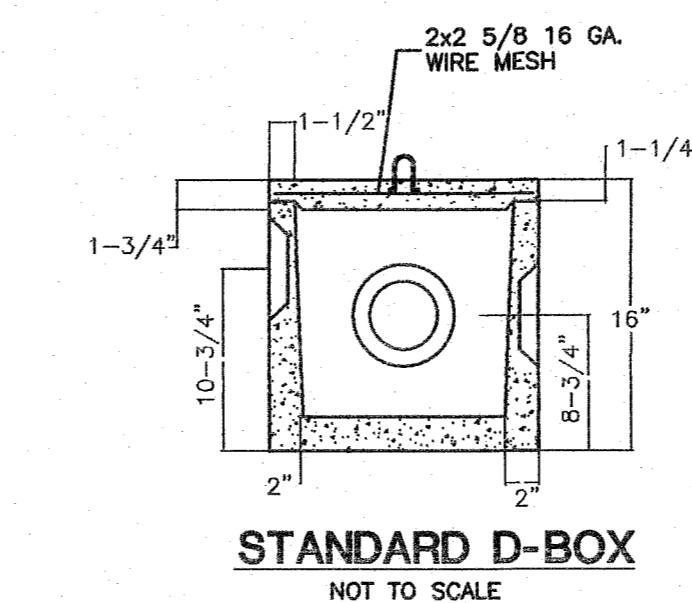
**PERMANENT VEGETATIVE COVER**

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:

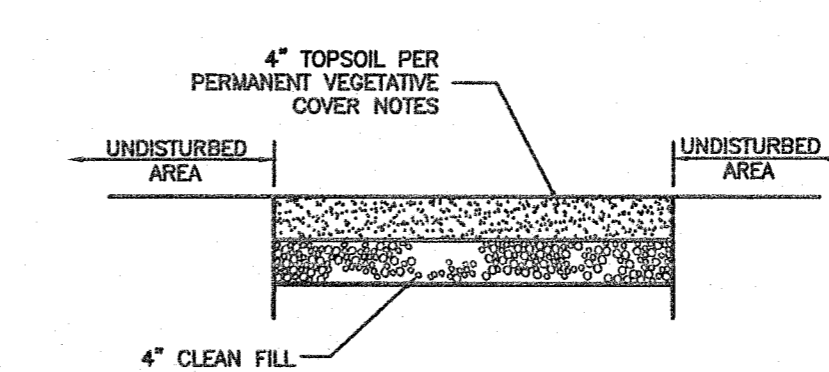
**TYPICAL SEED MIXTURE**

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

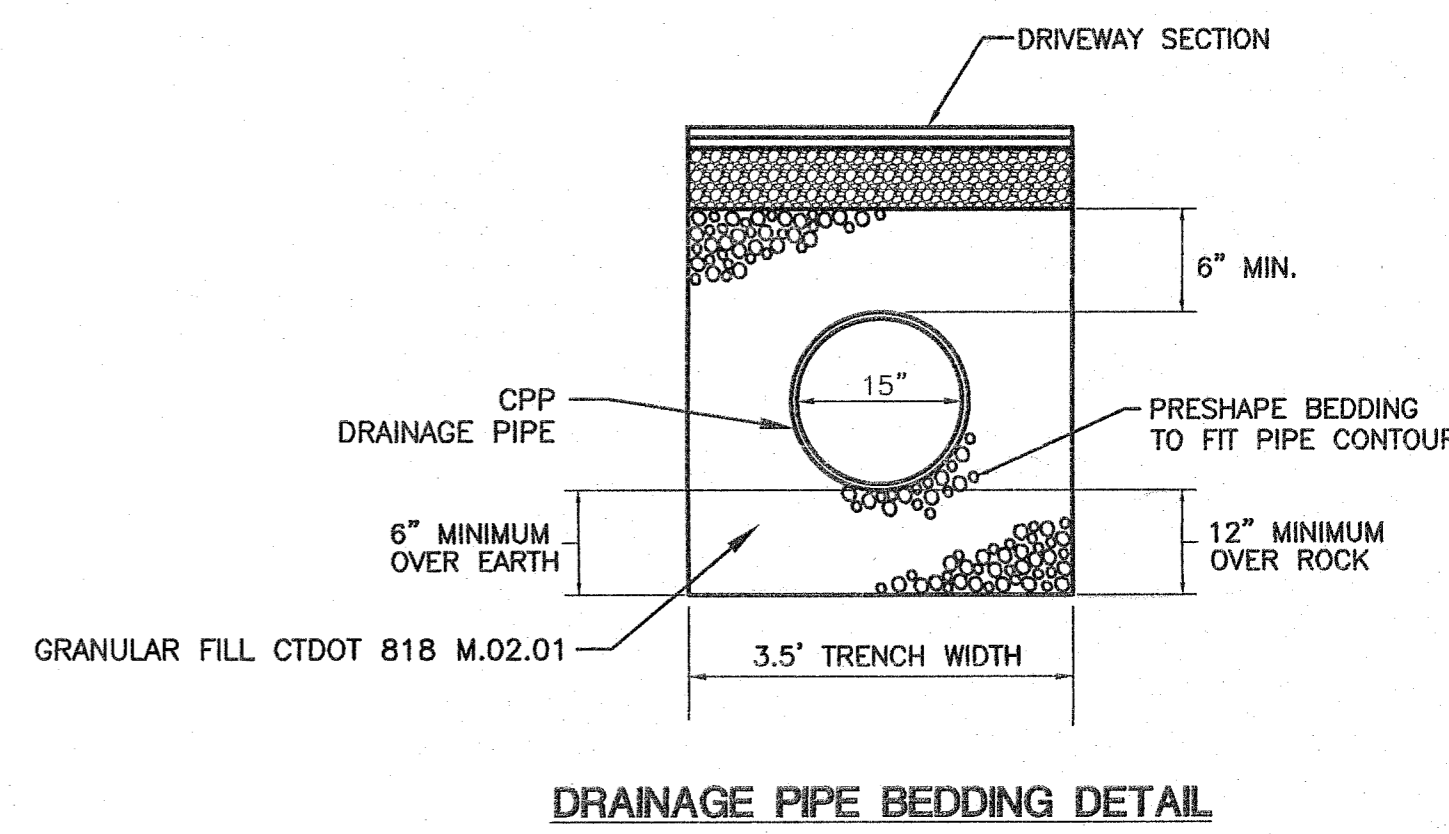


1. PROVIDE 4" THICKNESS OF TOPSOIL OVER CLEAN FILL. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED MIX PER PERMANENT VEGETATIVE COVER NOTES. (SHALL BE PAID FOR AT THE UNIT PRICE FOR LOAM, SEED, FERTILIZE & MULCH)
  2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING 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 SPICED 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 C128N OR APPROVED EQUAL.

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



**SLOPE STABILIZATION DETAILS**  
NOT TO SCALE



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

No.	DATE	REVISION
4	12/10/20	NCCG COMMENTS ADDRESSED
3	11/23/20	NCCG COMMENTS ADDRESSED
2	09/28/20	WETLAND FLAGS CALLOUTS ADDED
1	09/20/20	VARIOUS MODIFICATIONS

**CLA Engineers, Inc.**  
CIVIL • STRUCTURAL • SURVEYING

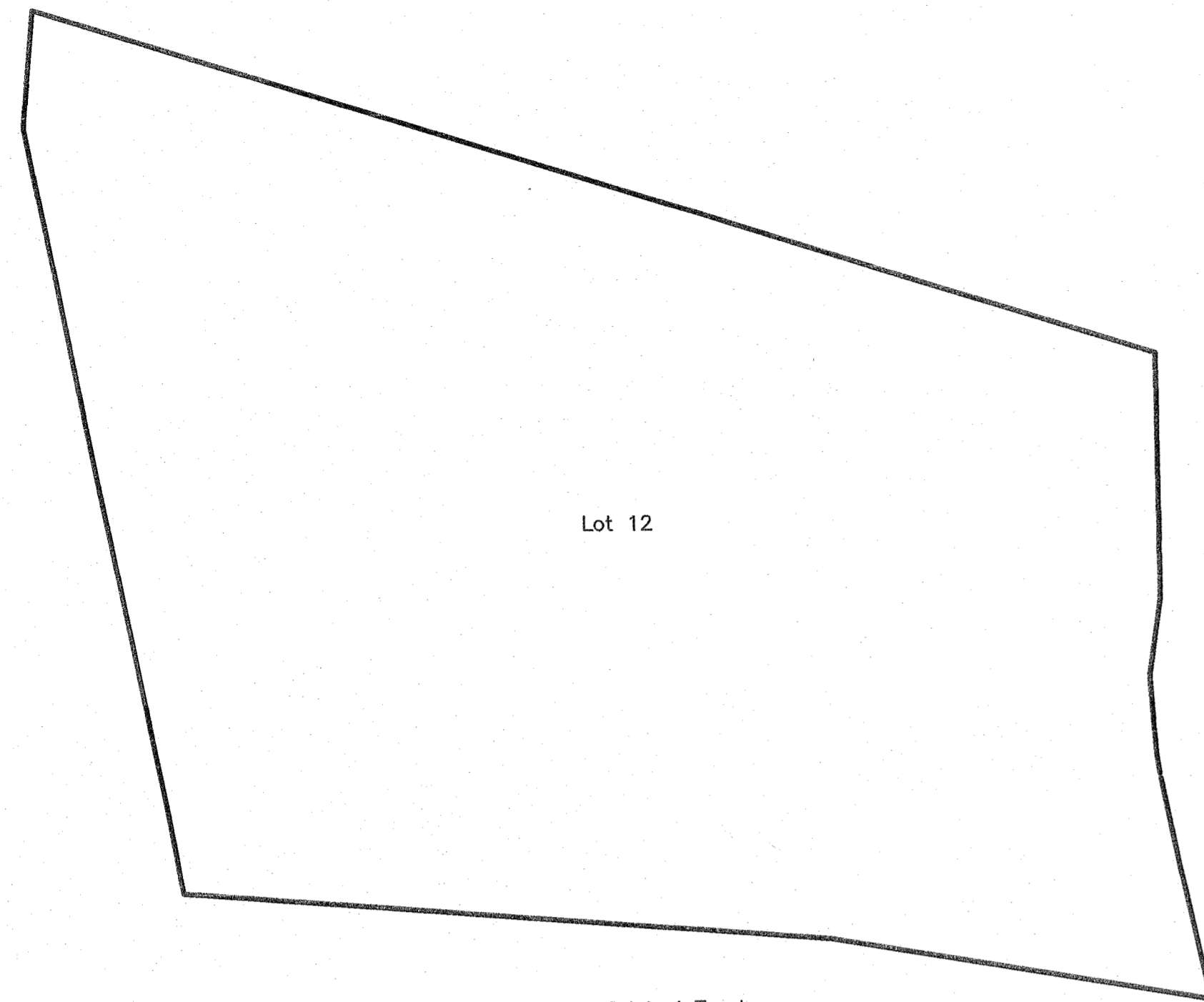
317 Main Street Norwich, CT 06360  
(860) 886-1966 Fax (860) 886-9165

SQUARE 1 BUILDING ASSOCIATES, LLC

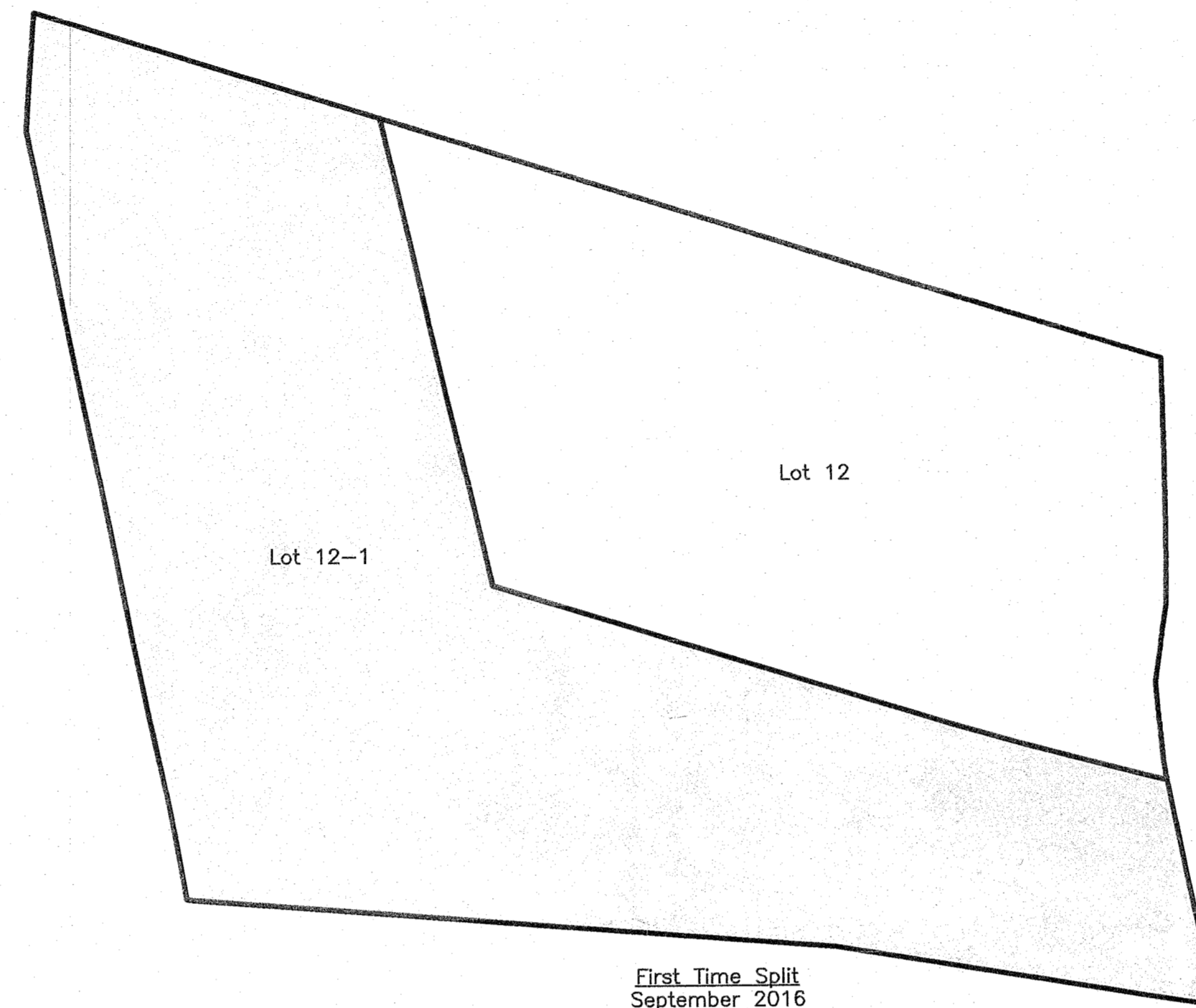
4-LOT SUBDIVISION  
BROOKLYN, CT

CONSTRUCTION DETAILS

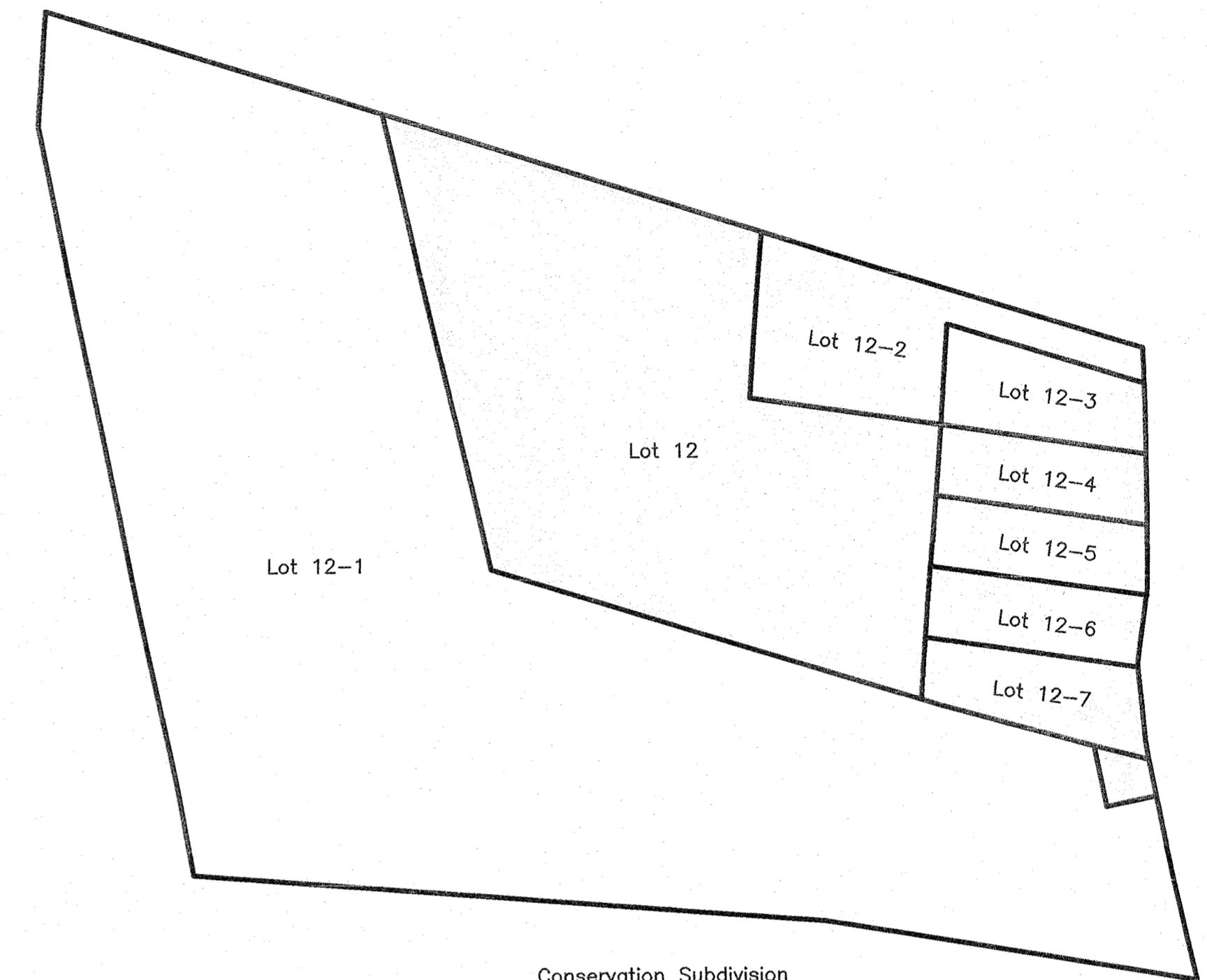
Project No. CLA-6503  
Proj. Engineer D.H.  
Date: 08/24/20  
Sheet No. 6 of 8



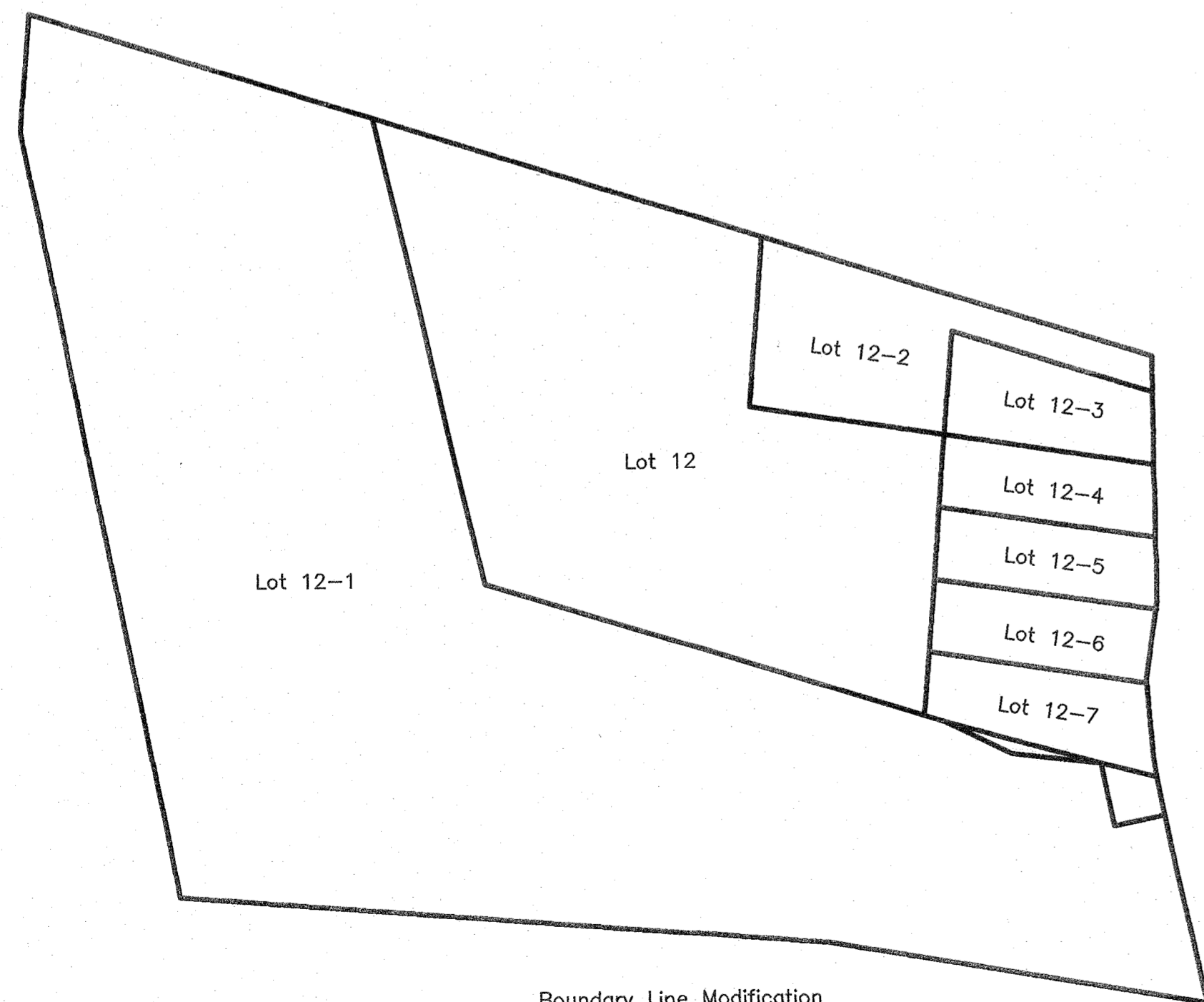
Original Tract



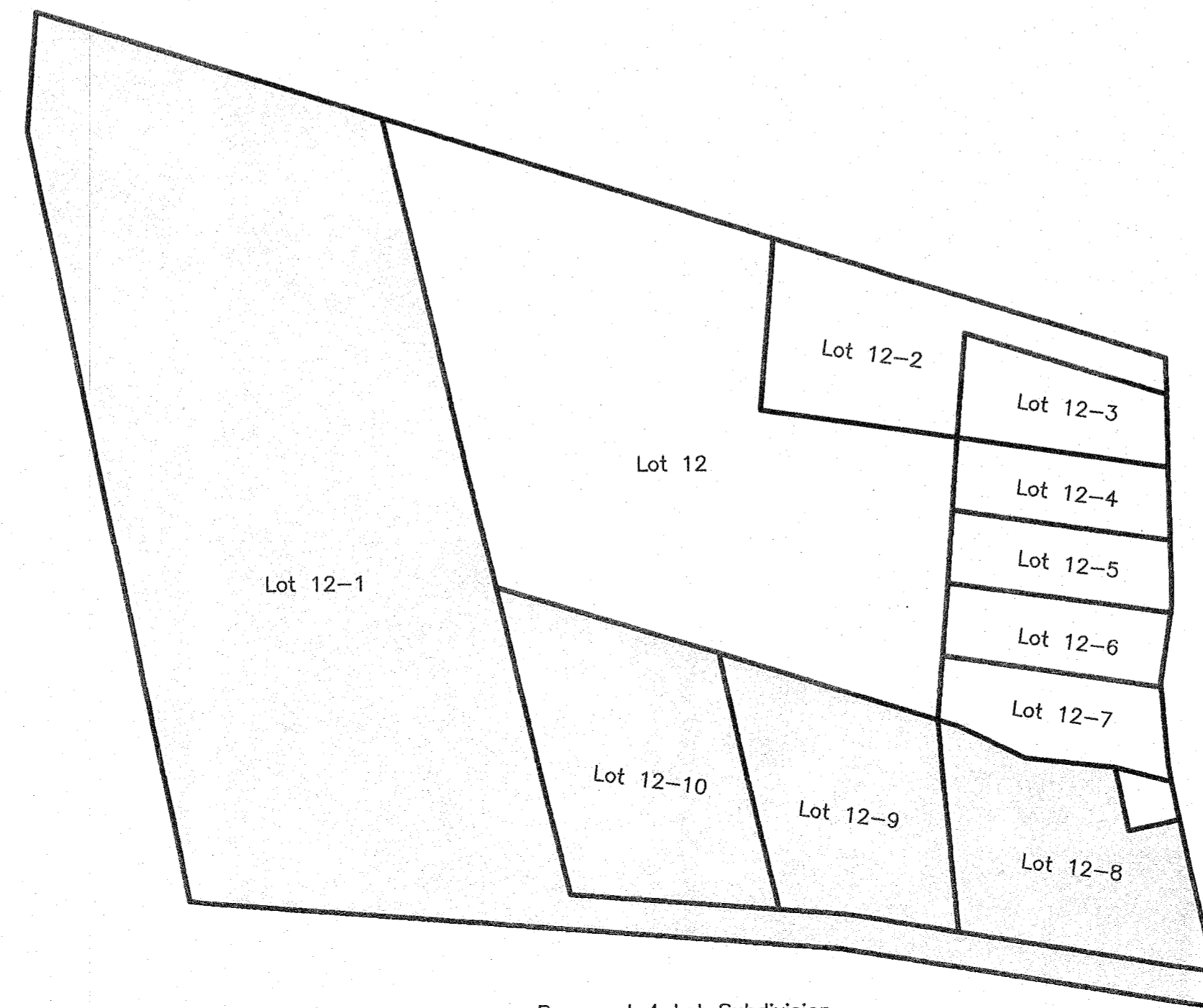
First Time Split  
September 2016



Conservation Subdivision  
December 2016



Boundary Line Modification  
January 2020



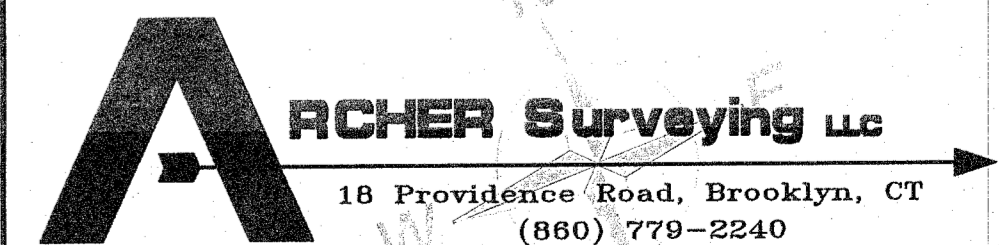
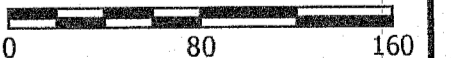
Proposed 4 Lot Subdivision

Parcel History Plan






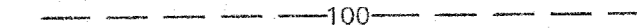
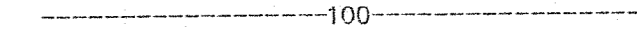
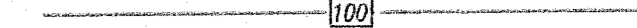

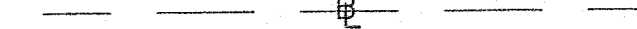








Prepared For:  
Square 1 Building Associates  
Tripp Hollow Road  
Brooklyn, Connecticut

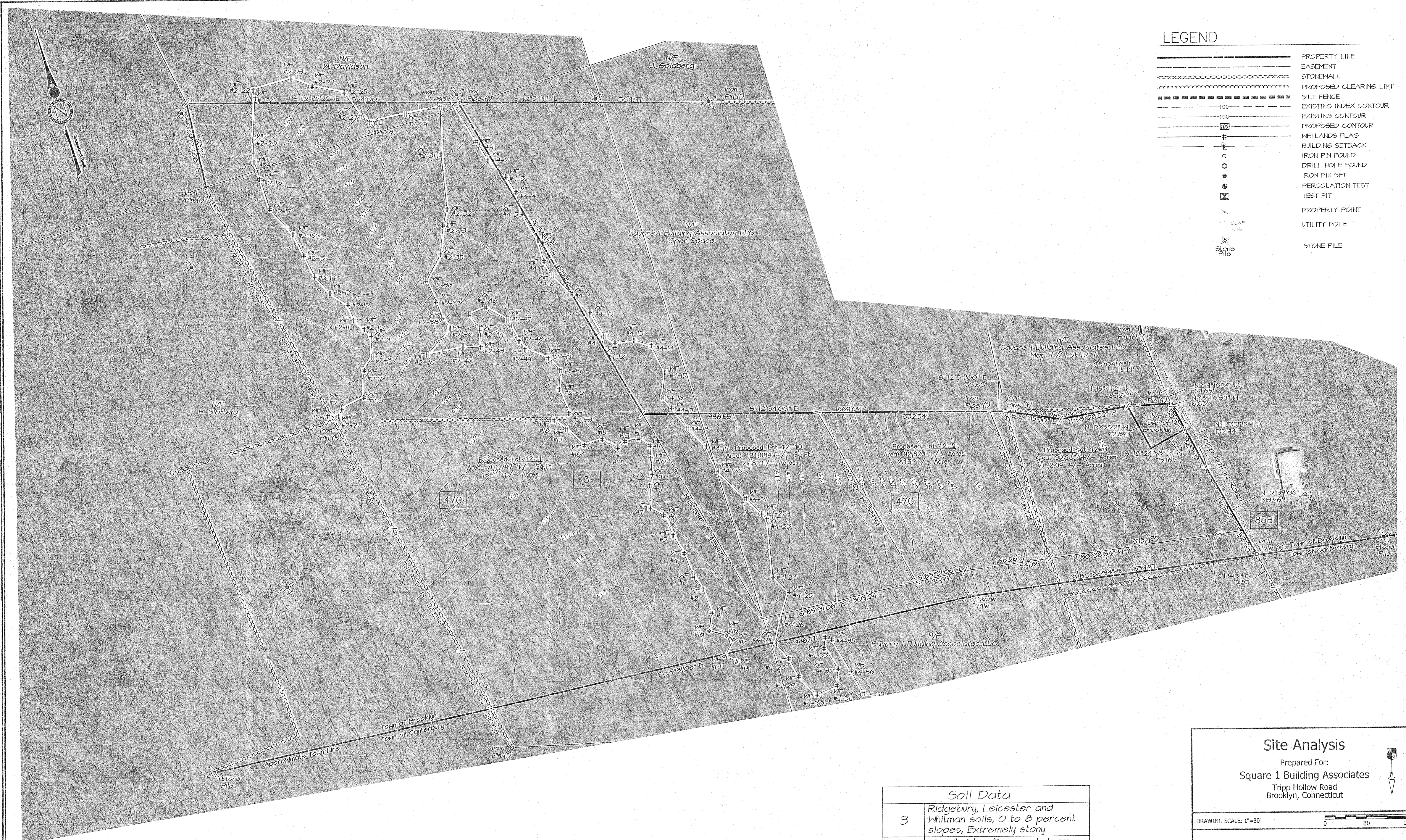


DRAWING SCALE: 1"=80'



LEGEND

-  PROPERTY LINE
-  EASEMENT
-  STONEWALL
-  PROPOSED CLEARING LIMIT
-  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

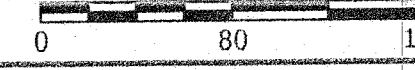


Soil Data	
3	Ridgebury, Leicester and Whitman soils, 0 to 8 percent slopes, Extremely stony
47C	Woodbridge fine sandy loam, 3 to 15 percent slopes, extremely stony
85B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes, very stony

**Site Analysis**

Prepared For:  
**Square 1 Building Associates**  
 Tripp Hollow Road  
 Brooklyn, Connecticut

DRAWING SCALE: 1"=80'



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

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