Two Lot Resubdivision
40 Almada Drive
Brooklyn, Connecticut

Prepared for
Paul Lehto
40 Almada Drive
Brooklyn, Connecticut, 06234

PROPERTY OWNER & APPLICANT

PROPERTY OWNER & APPLICANT:
LEHTO, PAUL R.
40 ALMADA DRIVE
BROOKLYN, CT 06234

LEGEND TO DRAWINGS

EXISTING		PROPOSED
	PROPERTY LINE	
	LOT LINE	
	CATCH BASIN & CULVERT	
W	WATER MAIN & SERVICE	W
G	GAS	
126	CONTOUR	126
124.2 X	SPOT ELEVATION	124.2 X
	UTILITY POLE	
E	ELECTRIC	
T	TELEPHONE	
	UG ELEC/TELE/CABLE	ETC
	SILT FENCE	SF
	FENCE	
	RETAINING WALL	
	STONE WALL	
TH#	TEST HOLE	
PERC #	PERCOLATION TEST	
	TREE/SHRUB LINE	
	INLAND WETLAND LIMITS	
	INLAND WETLAND REG. AREA	
	FOOTING DRAIN	F/D
	SEPTIC SYSTEMS	PRIMARY SYSTEM / RESERVE SYSTEM

LOCATION MAP
Scale: 1"=1,000'

INDEX TO DRAWINGS

March 31, 2021

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

STATE OF CONNECTICUT · STEVEN T. HARRIS · No. 24328 · LICENSED PROFESSIONAL ENGINEER

The Subdivision Regulations of the Brooklyn Planning and Zoning Commission 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 made by the Commission. Any such variances or modifications are on file in the office of the Commission.
Adopted October 4, 2006
Effective October 30, 2006

APPROVED BY THE BROOKLYN INLAND WETLANDS COMMISSION
CHAIRMAN _____ DATE _____

APPROVED BY THE BROOKLYN PLANNING AND ZONING COMMISSION
FINAL APPROVAL DATE _____
CHAIRMAN _____ DATE _____
EXPIRATION DATE _____
PER SECTION 8-26c OF THE CONNECTICUT GENERAL STATUTES, AS AMENDED, APPROVAL AUTOMATICALLY EXPIRES _____ IF ALL PUBLIC IMPROVEMENTS REQUIRED BY THIS PLAN ARE NOT COMPLETED BY THAT DATE.

REVIEWED BY THE TOWN ENGINEER
FIRST SELECTMAN _____ DATE _____

CLA

M:\6000\6300\6383 Paradise Dr. Subdivision\Drawings\2 Lot Subdivision\6383 - 2 Lot Subdivision - Sheet 00 Cover.dwg

Magnetic

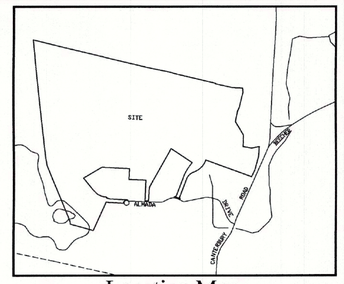
Lot 6
Area: 4,550,092 +/- Sq.Ft.
104.46 +/- Acres

Abutters

1. Barbara Forte
   Map 22 // Lot 16
2. Elizabeth Seabury
   Map 14 // Lot 9
3. Meehan Builders
   Map 14 // Lot 10
4. Brian Meehan
   Map 14 // Lot 2
5. Jeff Weaver
   Map 14 // Lot 4
6. Thomas Carmody
   Map 49 // Lot 169
7. Timothy Hecker
   Map 13 // Lot 6-6A
8. Joshua Costa
   Map 13 // Lot 6-18
9. Joseph Clark
   Map 13 // Lot 6-15
10. Robert Hecker
    Map 13 // Lot 6-7
11. David Bunn
    Map 13 // Lot 6-9
12. Anthony Messa
    Map 13 // Lot 6-9
13. Sean Doyle
    Map 13 // Lot 6-10
14. Albert Messore
    Map 13 // Lot 6-11
15. Steven Gilman
    Map 21 // Lot 6-17

LEGEND

- PROPERTY LINE
- EASEMENT
- STONEWALL
- STONEWALL REMAINS
- 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
- PROPERTY POINT
- UTILITY POLE



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

- Survey Type: Existing Conditions Survey
- Boundary Determination: Resurvey
- Intent: Depict Existing Conditions With Respect to Property Lines

2. Parcels shown as 47 on Assessors Tax Map 41 of the Brooklyn Assessors Office

3. Topographic Information obtained by actual field measurements, Datum Assumed

MAP REFERENCE:

1. Subdivision Plan Prepared for Paul Lehto, Route 169, Brooklyn, Connecticut, Dated: March 1989 - Revised: December 1988, April 1989, may 1989, June 1989, September 1989, October 1989 and January 1990, Scaled: 1"=100', Prepared By Louis J. Soja Jr.

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8. Subdivision Map Prepared for Paul Lehto, Canterbury Road-Route 169, Brooklyn, Connecticut, Dated: March 2005, Scaled: 1"=50', Prepared by Archer Surveying LLC

9. Subdivision Map - Lot 6-189 Prepared for Paul Lehto, Canterbury Road- Route 169, Brooklyn, Connecticut, Dated: March 2005, Scaled: 1"=50', Prepared by Archer Surveying LLC

10. Perimeter Survey - Boundary Line Modification Prepared for Paul Lehto, Brooklyn, Connecticut, Dated: August 2006, Scaled: 1"=30', Prepared by Archer Surveying LLC

11. Perimeter Survey Prepared for Gregory Michellidis & Paul Lehto, Route 169, Brooklyn, Connecticut, Dated: August 2006, Prepared by Archer Surveying LLC

To My Knowledge, This Survey Map Is Substantially Correct As noted Hereon.

Paul M. Archer LLS #70013 — Date 4-1-2021

REVISIONS	

Perimeter Survey

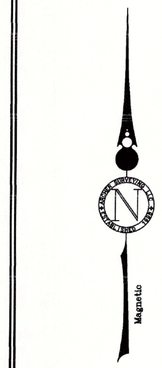
Prepared For:
Paul Lehto
Almada Drive & Paradise Drive
Brooklyn, Connecticut

DRAWING SCALE: 1"=150'
0 75 150 300

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

Sheet No.	Project No.	Date:
1	1761	November 13, 2020

ARCHER Surveying LLC



Abutters

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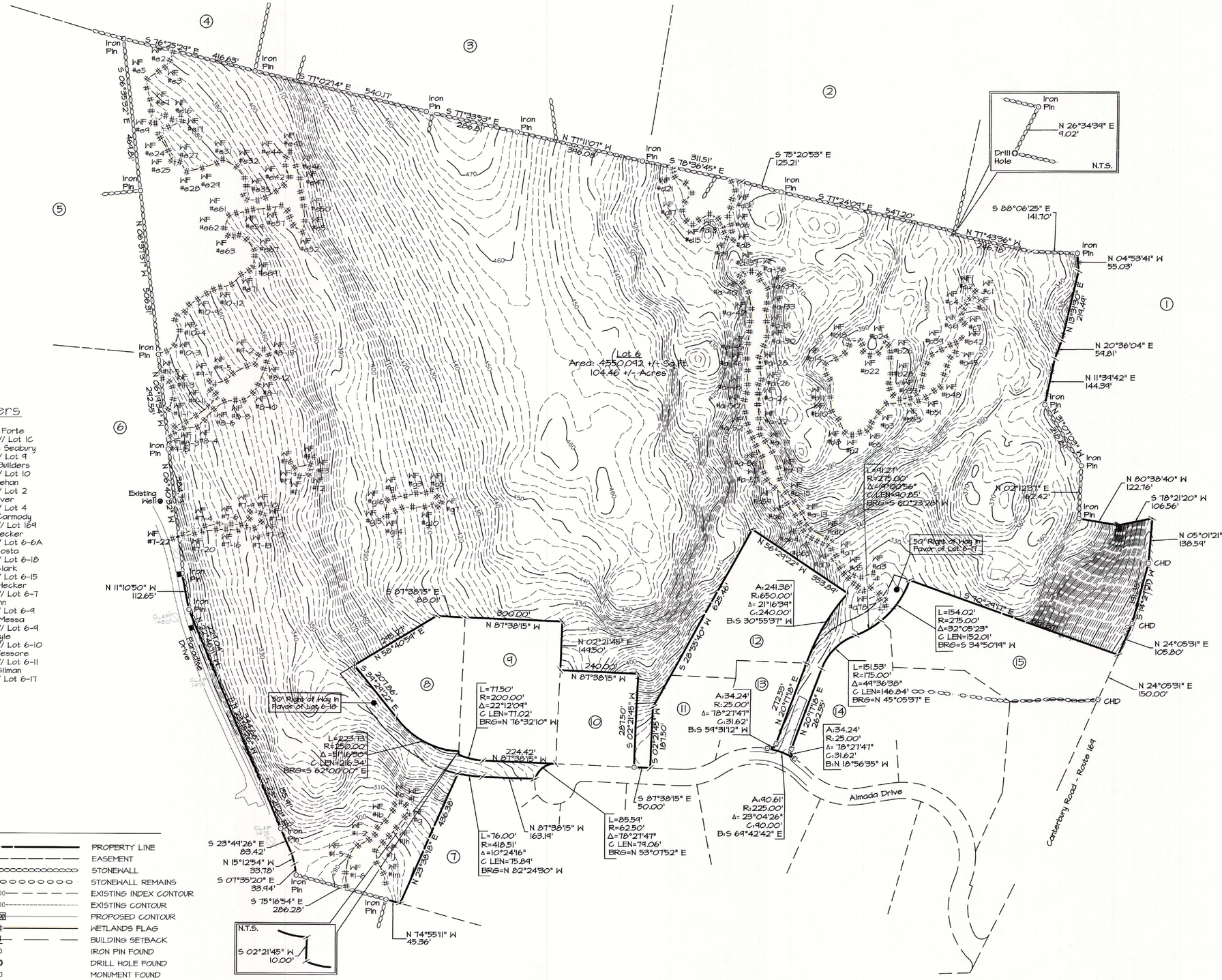

LEGEND

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- EASEMENT
- STONEWALL
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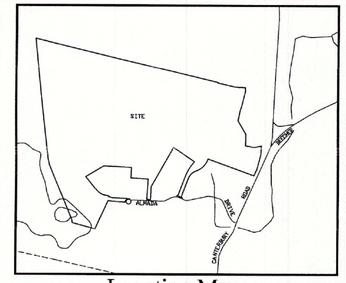

Location Map

SCALE

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1" = 1000 FT

Notes

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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 hereon. STATE OF CONNECTICUT LICENSED LAND SURVEYOR No. 70013

Paul M. Archer LLS #70013

4-1-2021

Date

REVISIONS

Existing Conditions Plan

Prepared For:

Paul Lehto

Almada Drive & Paradise Drive

Brooklyn, Connecticut

DRAWING SCALE: 1"=150'

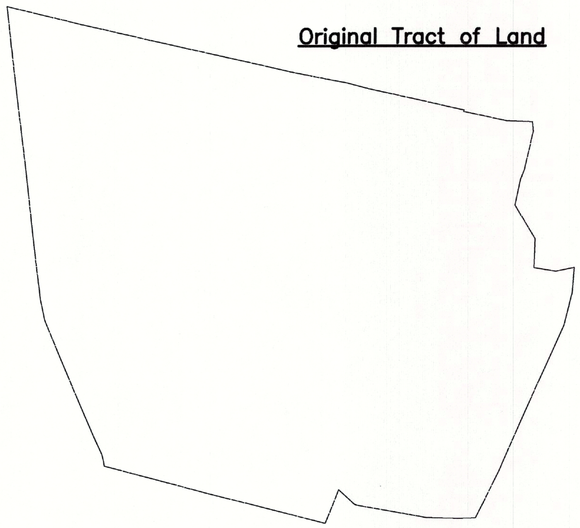
0 75 150 300

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

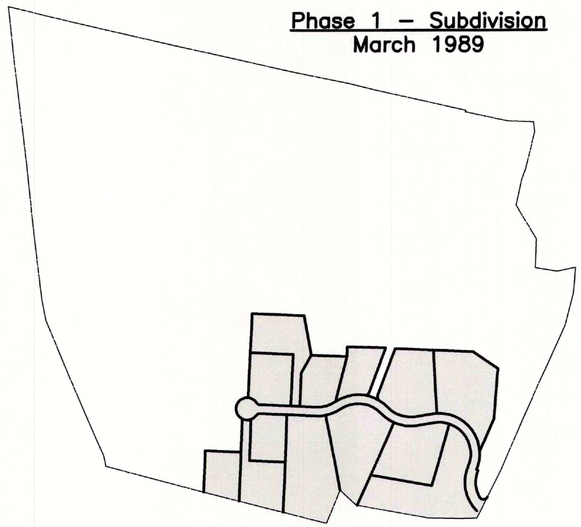
Sheet No.	Project No.	Date:
2	1761	November 13, 2020

ARCHER Surveying LLC

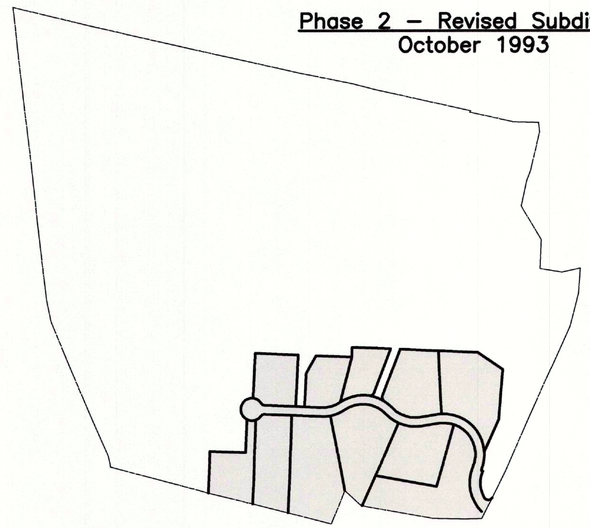
Original Tract of Land



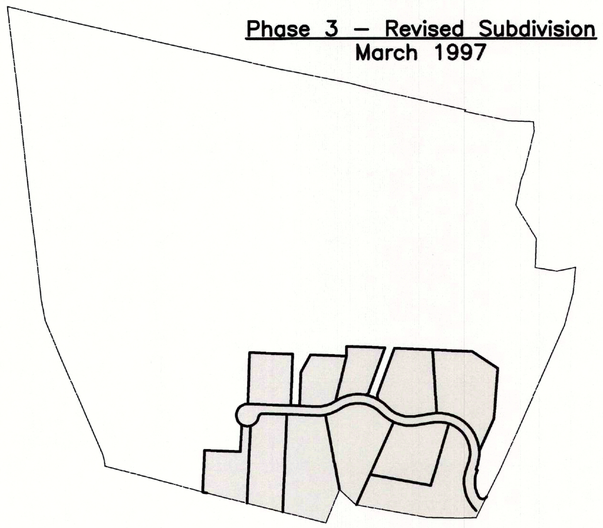
Phase 1 – Subdivision
March 1989



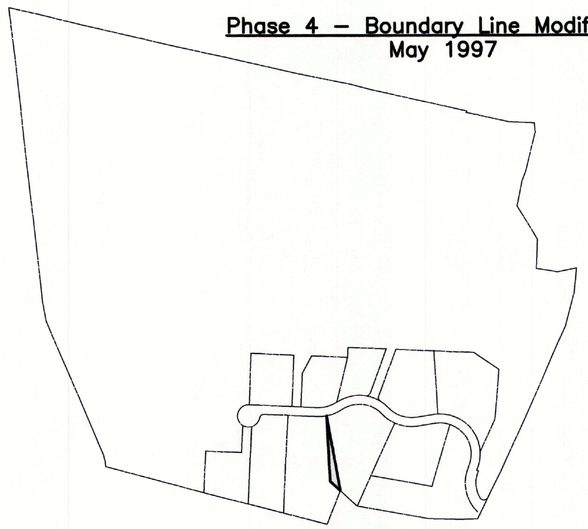
Phase 2 – Revised Subdivision
October 1993



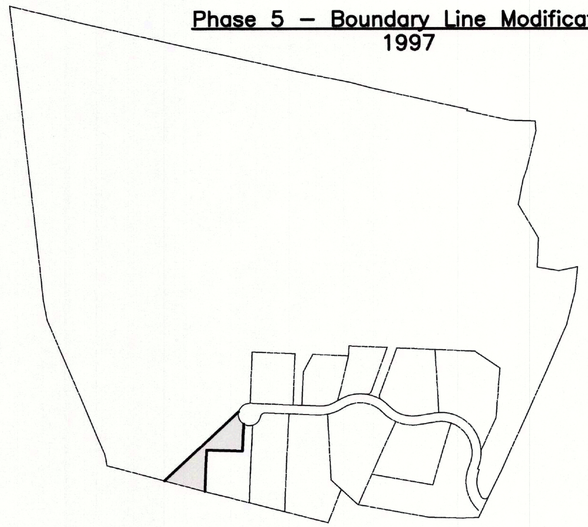
Phase 3 – Revised Subdivision
March 1997

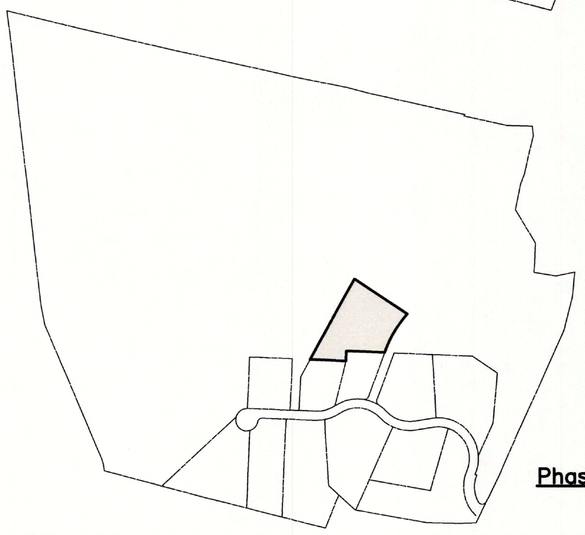


Phase 4 – Boundary Line Modificaiton
May 1997



Phase 5 – Boundary Line Modification
1997





Phase 6 – Re-Subdivision
July 1998

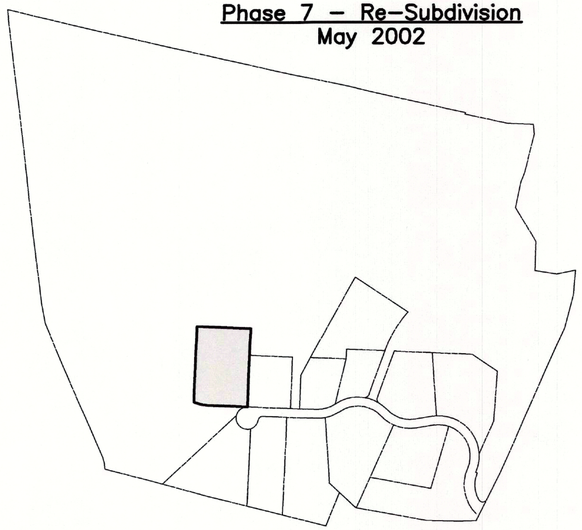
History Plan 1

Prepared For:
Paul Lehto
Almada Drive & Paradise Drive
Brooklyn, Connecticut

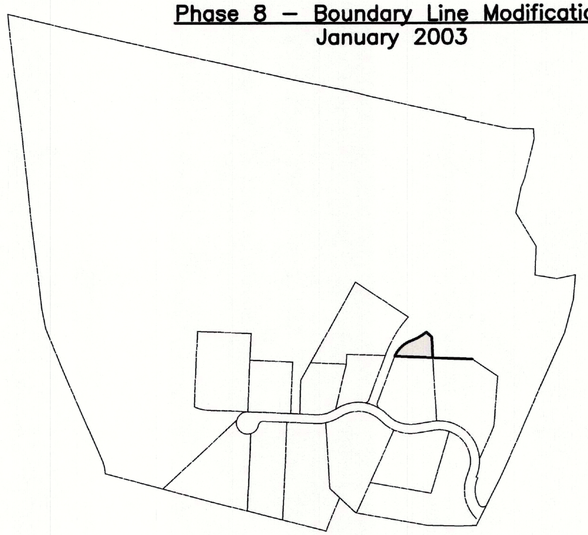
ARCHER Surveying LLC
18 Providence Road, Brooklyn, CT
(860) 779-2240

Sheet No.	Project No.	Date:
3	1761	January 18, 2020

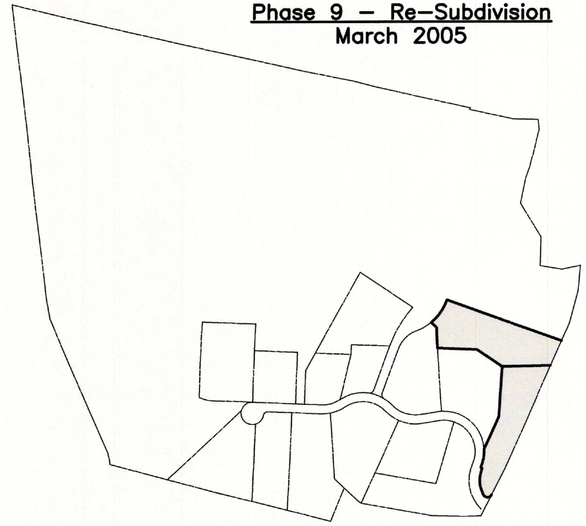
Phase 7 – Re–Subdivision
May 2002



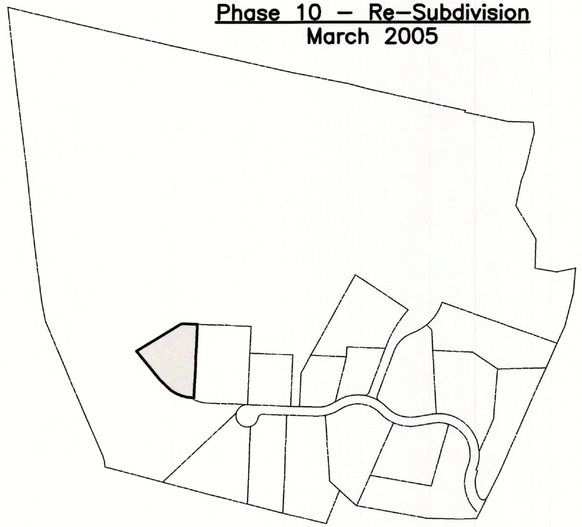
Phase 8 – Boundary Line Modification
January 2003



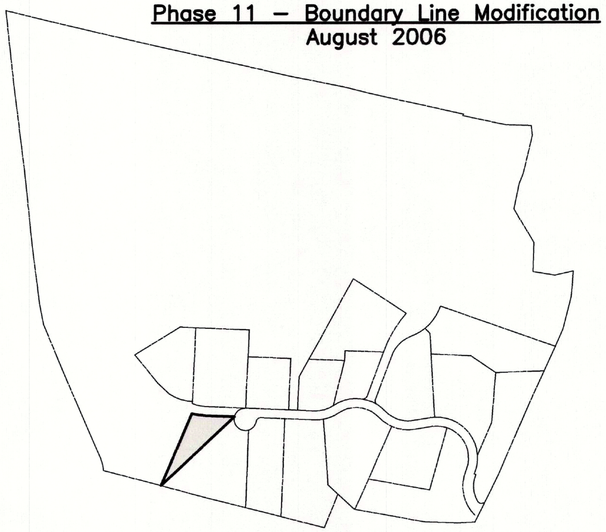
Phase 9 – Re–Subdivision
March 2005



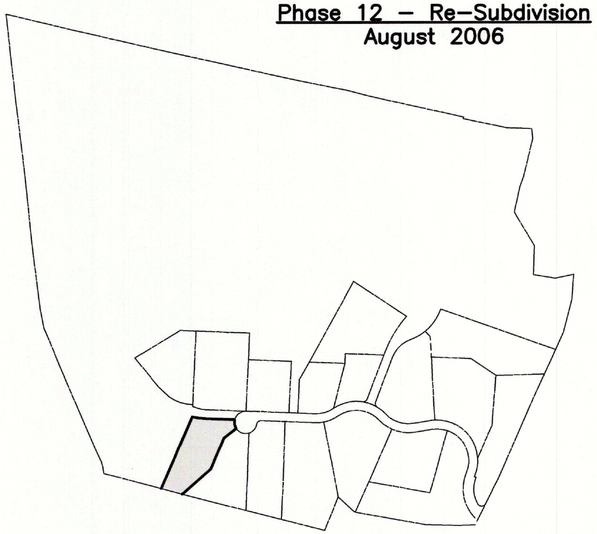
Phase 10 – Re–Subdivision
March 2005



Phase 11 – Boundary Line Modification
August 2006



Phase 12 – Re–Subdivision
August 2006



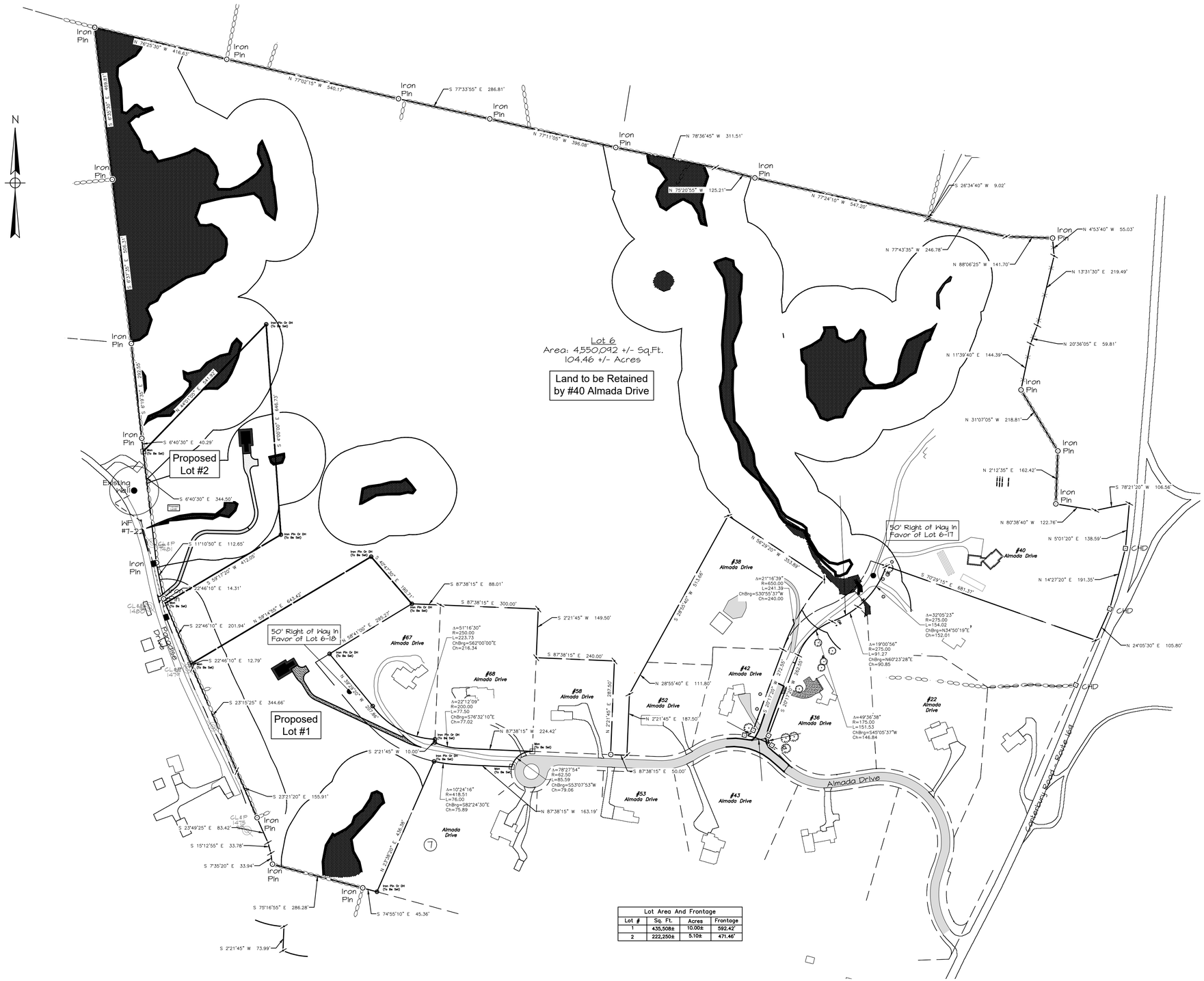
History Plan 2

Prepared For:
Paul Lehto
Almada Drive & Paradise Drive
Brooklyn, Connecticut

REVISIONS	

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

Sheet No.	Project No.	Date:
4	1761	January 18, 2020



Lot Area And Frontage			
Lot #	Sq. Ft.	Acres	Frontage
1	435,508±	10.00±	592.42'
2	222,250±	5.10±	471.46'

SURVEY NOTES

1. THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 20-300b-1 THRU 20-300b-20 OF THE REGULATIONS FOR STATE AGENCIES "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC.
   A. TYPE OF SURVEY: BOUNDARY SURVEY
   B. BOUNDARY DETERMINATION CATEGORY: FIRST SURVEY OF THE SOUTHERLY BOUNDARIES RESURVEY OF THE REMAINDER
   C. HORIZONTAL ACCURACY: CLASS A-2
      VERTICAL ACCURACY: N/A
      TOPOGRAPHIC ACCURACY: N/A
   D. INTENT: TO DEPICT BOUNDARY INFORMATION SHOWING NEW LOTS FOR SUBDIVISION PLAN.
2. LATEST DATE OF FIELD WORK: October 2020.
3. HORIZONTAL ORIENTATION IS BASED ON MAP REFERENCE 1.
4. OWNER/APPLICANT; PAUL LEHTO
5. SUBJECT PROPERTY IS DEPICTED AS LOT 47 OF ASSESSOR'S MAP 41. DEED REFERENCE FOR SUBJECT PROPERTY IS VOL. 87, PG. 173.
6. WETLANDS LOCATIONS FROM MAP REFERENCE 1.
7. THIS MAP AND SURVEY ARE VALID ONLY IF THE PRINT OR MYLAR HAS THE EMBOSSED SEAL AND LIVE SIGNATURE OF THE SURVEYOR.

MAP REFERENCES

1. "PERIMETER SURVEY PREPARED FOR: PAUL LEHTO ALMADA & PARADISE DRIVE BROOKLYN, CONNECTICUT" BY ARCHER SURVEYING LLC SHEET NO. 1 OF 1 PROJECT NO 1761 DATE: NOVEMBER 13, 2020 SCALE 1"=150'

TO MY KNOWLEDGE AND BELIEF THIS PLAN IS SUBSTANTIALLY CORRECT AS NOTED OR DEPICTED HEREON.

04/05/2021

RYAN J. CHEVERIE, L.L.S. #70454 DATE

150' 0 150' 300'

SCALE: 1"=150'

No.	DATE	REVISION

STATE OF CONNECTICUT · RYAN J. CHEVERIE · No. 70454 · LICENSED LAND SURVEYOR

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

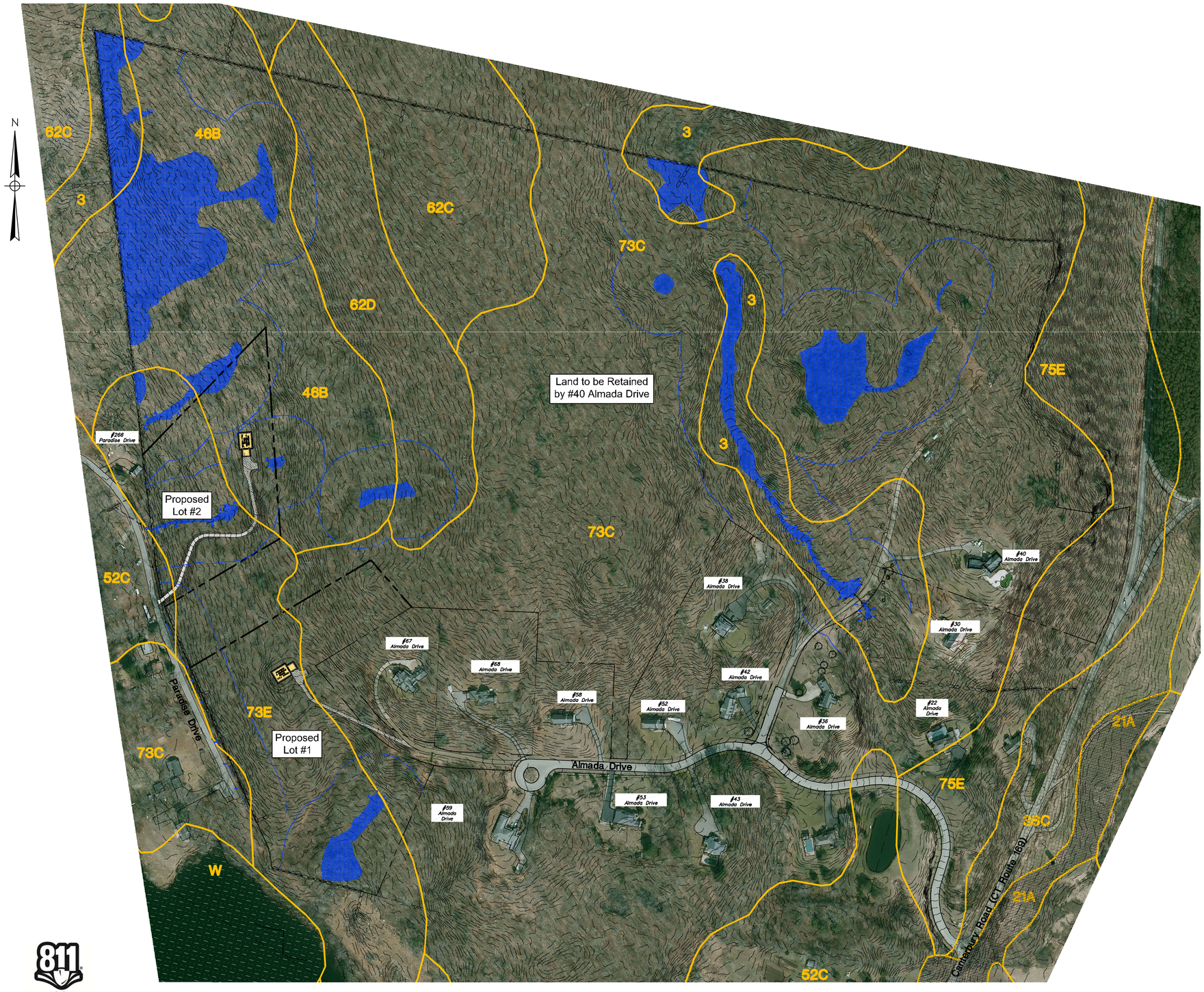
Subdivision Plan Prepared for Paul R. Lehto
#40 Almada Drive, Brooklyn, Connecticut

Two Lot Resubdivision
40 Almada Drive
Brooklyn, Connecticut

Subdivsion Record Plan

Project No.	CLA-6383
Proj. Engineer	K.J.H.
Date:	3/31/2021
Sheet No.	5

CLA



Plan of Development

150' 0 150' 300'

SCALE: 1"=150'

PROPOSED DEVELOPMENT

THE PROPOSED DEVELOPMENT IS A 2 LOT RESIDENTIAL SUBDIVISION ALONG ALMADA DRIVE AND PARADISE DRIVE IN BROOKLYN, CT. THERE ARE NO PROPOSED PUBLIC IMPROVEMENTS AS PART OF THE DEVELOPMENT. THE PROPOSED LIMITS OF DISTURBANCE HAVE BEEN SHOWN ON PLANS. THE PROPOSED DEVELOPMENT WILL DISTURB APPROXIMATELY 2.7 ACRES.

1. THERE IS NO PROPOSED INLAND WETLAND DISTURBANCE.
2. THERE IS APPROXIMATELY 56,350 SF OF PROPOSED WORK WITHIN THE 125-FOOT INLAND WETLAND UPLAND REVIEW AREA.
3. THERE IS 100-YEAR FLOOD PLAIN LOCATED ON A PORTION OF THE PROPERTY, THERE IS NO PROPOSED WORK WITHIN THIS AREA. THE PROPERTY LIES WITHIN ZONE C "AREAS OF MINIMAL FLOODING". (FIRM MAP #09015400008A, EFFECTIVE DATE: JANUARY 3, 1985)
4. NO PORTION OF THE LOT LIES WITHIN A CT DEEP NATURAL DIVERSITY DATABASE AREA.
5. NO PORTION OF THE LOT LIES WITHIN THE COASTAL MANAGEMENT AREA.
6. NO PORTION OF THE LOT LIES WITHIN THE AQUIFER PROTECTION AREA
7. THE RESIDENTIAL LOTS WILL BE SERVED BY ONSITE SEPTIC SYSTEMS.
8. THE RESIDENTIAL LOTS WILL BE SERVED BY INDIVIDUAL WELLS.

GENERAL NOTES

1. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 811 AT LEAST 2 FULL WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

2. INFORMATION SHOWN ON THE DRAWINGS RELATING TO MATERIALS, CONDITIONS, AND/OR LOCATIONS OF EXISTING STRUCTURES AND UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING FIELD SURVEY, UTILITY COMPANY AND TOWN RECORD MAPS AND DRAWINGS, AND IS NOT GUARANTEED ACCURATE OR COMPLETE.

3. THE CONTRACTOR SHALL EXCAVATE TEST PITS AS NEEDED OR AS DIRECTED TO VERIFY UTILITY INFORMATION.

4. MAINTENANCE AND PROTECTION OF TRAFFIC:
   A. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF TRAFFIC, TRAFFIC CONTROL, TEMPORARY SIGNING OR BARRICADES AND TEMPORARY LANE CLOSURES. CONTINUOUS ACCESS FOR BUSES AND EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.
   B. PASSAGE OF TRAFFIC ON ROADWAYS: A MINIMUM OF ONE LANE FOR TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL PERFORM HIS OPERATIONS TO MINIMIZE DISRUPTIONS TO TRAFFIC WITHIN THE PROJECT SITE.
   C. RESIDENTS OR BUSINESSES WITH DRIVES AFFECTED BY CONSTRUCTION SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 48 HOURS BEFORE CONSTRUCTION BEGINS AND SHALL BE ALLOWED CONTINUOUS ACCESS TO THEIR PROPERTY.
   D. CERTIFIED FLAGMEN SHALL BE USED FOR TRAFFIC CONTROL AS NEEDED THROUGHOUT THE DURATION OF CONSTRUCTION.
   E. CONSTRUCTION SIGNS MUST CONFORM TO THE SIGNING REQUIREMENTS OUTLINED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)". ALL SIGN FACES SHALL BE REFLECTORIZED.

4. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS AND ACTIVITIES FOR CONSTRUCTION PURPOSES WITHIN THE STREET LINES, EASEMENTS AND PROPERTY AS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PAVEMENT, ROADWAY, SIDEWALKS, ETC., OUTSIDE OF THE WORK AREA AND SHALL REPAIR SUCH DAMAGE.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY AND PERMANENT SUPPORT OF ALL EXISTING UTILITY POLES IN AN ADJACENT TO THE CONSTRUCTION AREA AND SHALL COMPLY WITH ALL THE REQUIREMENTS AND SPECIAL DETAILS FOR THE SUPPORT OF UTILITIES REQUIRED BY UTILITY AGENCIES.

6. MATERIAL STOCKPILE AND STAGING AREAS: THE CONTRACTOR SHALL LOCATE STOCKPILE, MATERIAL STORAGE AND EQUIPMENT STORAGE AREAS AS SHOWN ON THE PLANS. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL IDENTIFY THESE AREAS AND PROVIDE EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED. ADJUSTMENTS TO THESE LOCATIONS MAY BE MADE IN THE FIELD PROVIDED THAT EROSION AND SEDIMENTATION CONTROL MEASURES ARE FURNISHED & INSTALLED AND IN NO CASE MAY THEY BE RELOCATED WITHIN THE 125-FOOT INLAND WETLAND UPLAND REVIEW AREA OR BEYOND THE PROPOSED LIMITS OF DISTURBANCE.

7. IF BLASTING IS PERFORMED A PRE-BLAST SURVEY WILL BE REQUIRED. ANY AND ALL BLASTING SHALL CONFORM TO THE REGULATIONS SET FORTH BY THE TOWN AND SHALL BE APPROVED BY THE APPROPRIATE TOWN AGENCIES AND ADJACENT UTILITY OWNERS.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING TO GRADE ALL FRAMES, GRATES,COVERS, VALVE BOXES, ACCESS COVERS, AND ALL OTHER ITEMS WHICH NORMALLY MUST HAVE A FIXED RELATION TO FINISHED GRADE.

9. ALL WORK TO CONFORM TO THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION FORM 818, DATED JULY 2020, AS REVISED.

10. ALL FILL MATERIAL (BORROW) IMPORTED TO THE SITE SHALL BE "CLEAN FILL" IN ACCORDANCE WITH DEEP'S SOLID WASTE MANAGEMENT REGULATIONS (RCSA SECTION 22a-209-1).

Soil Data	
3	Ridgebury, Leicester, and Whitman soils, extremely stony
17	Timakwa and Natchaug Soils, 0 to 2 percent slopes
21A	Ninigret and Tisbury soils, 0 to 5 percent slopes
38C	Hinckley gravelly sandy loam, 3 to 15 percent slopes
46B	Woodbridge fine sandy loam, 2 to 8 percent slopes, very stony
52C	Sutton fine sandy loam, 2 to 15 percent slopes, extremely stony
62C	Canton and Charlton soils, 3 to 15 percent slopes, extremely stony
62D	Canton and Charlton soils, 15 to 35 percent slopes, extremely stony
73C	Charlton-Chatfield complex, 3 to 15 percent slopes, very rocky
73E	Charlton-Chatfield complex, 15 to 45 percent slopes, very rocky
75E	Hollis-Chatfield-Rock outcrop complex, 15 to 45 percent slopes
W	Water

STATEWIDE IMPORTANT FARMLAND SOILS

PRIME FARMLAND SOILS

WATER

WETLANDS

Know what's below. Call 811 before you dig.

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

Subdivision Plan Prepared for Paul R. Lehto
#40 Almada Drive, Brooklyn, Connecticut

Two Lot Resubdivision
40 Almada Drive
Brooklyn, Connecticut

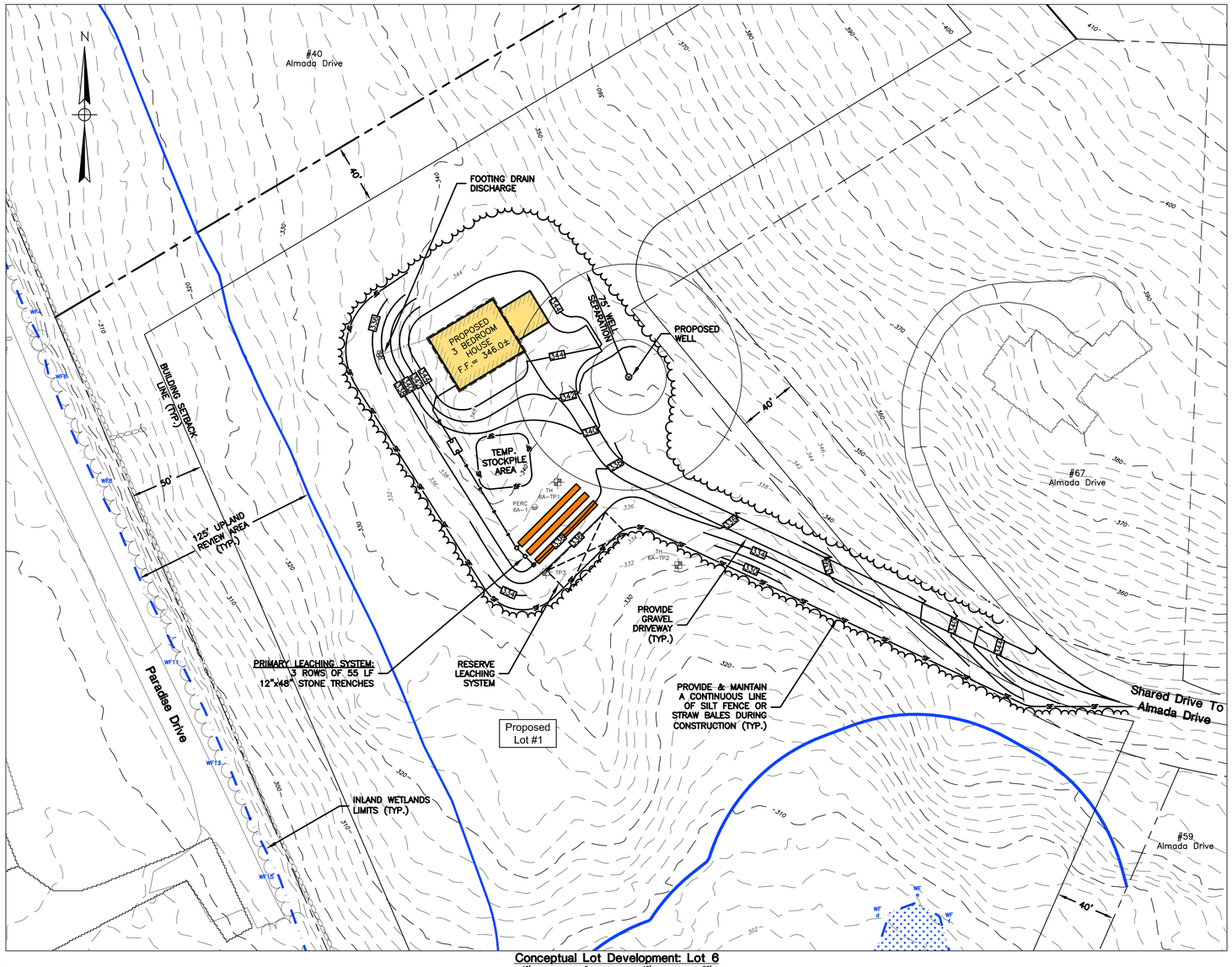
Site Analysis Plan

STATE OF CONNECTICUT · KYLE J. MAHER · No. 24526 LICENSED PROFESSIONAL ENGINEER

Project No. CLA-6383
Proj. Engineer K.J.H.
Date: 3/31/2021
Sheet No. 6

CLA

M:\6000\6300\6383 Paradise Dr. Subdivision\Drawings\2 Lot Subdivision\6383 - 2 Lot Subdivision - Sheet 06-07 Plans.dwg



Conceptual Lot Development: Lot 6

SCALE: 1"=40'

Conceptual Lot 1 Development

TEST PIT DATA
NDDH File No. 12000186
Testing Conducted on 2/15/18
by Terre Bombard, R.S.

TP 6A-1 (2018)
Mottles: N/O
Ground Water: N/O
Ledge: 67"
0-9" Topsoil/Roots
9-28" Very Fine Loamy Sand/Moist
28-67" Compact Very Fine Loamy Sand

TP 6A-2 (2018)
Mottles: 20"
Ground Water: 20"
Ledge: 67"
0-8" Topsoil
8-20" Very Fine Loamy Sand/Wet
20-56" Groundwater

TP 3 (2019)
Mottles: 30"
Ground Water: N/O
Ledge: N/O
Roots: 42"
0-12" Topsoil
12-30" OB/YB Fine Sandy Loam
30-70" GR Sandy Loam Till. Mottled

PERCOLATION TEST DATA
Performed by CLA Engineers, Inc. on 9/28/20

Perc 6A-1: Depth = 24" Pre-soak: Yes		
Time	Measuredown (Inches)	Change (Inches)
3:00	12"	
3:05	15"	-3
3:10	18"	-3
3:15	20"	-2
3:20	21"	-1
3:25	22.5"	-1.5
3:30	24"	-1.5

Min. Perc Rate = 4 min./inch

SEPTIC SYSTEM DESIGN
PRIMARY LEACHING AREA
3 BEDROOM RESIDENCE
PERCOLATION RATE: 4 MIN./INCH
LEACHING AREA REQUIRED: 495 SF

USE 12"x48" STONE TRENCH
EFFECTIVE LEACHING AREA OF LEACHING TRENCH 3.0 SF/LF
REQUIRED LENGTH = 495 SF / 3.0 SF/LF = 165 LF

MLSS CALCULATION
HYDRAULIC FACTORS
DEPTH TO RESTRICTIVE LAYER = 20"
SLOPE = 6 VF / 71 LF = 8.4%
HYDRAULIC FACTOR (HF) = 30
FLOW FACTOR (FF) = 1.5
PERCOLATION FACTOR (PF) = 1.0 (UP TO 10.0 MIN./INCH)
MLSS REQUIRED: 30 x 1.5 x 1.0 = 45 LF

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

RESERVE LEACHING AREA
USE SAME AS PRIMARY SYSTEM

Conceptual Lot 2 Development

TEST PIT DATA
NDDH File No. 12000186
Testing Conducted on 8/6/20
by Sherry McGann, R.S.

TP 6-1
Mottles: 28"
Ground Water: N/O
Roots: 28"
Ledge: 94"
0-12" Topsoil
12-28" OB Fine Sandy Loam
28-94" GR Mottled Sandy Loam Till

TP 6-2
Mottles: 32"
Ground Water: N/O
Roots: 32"
Ledge: 100"
0-13" Topsoil
13-32" OB Fine Sandy Loam
32-100" GR Mottled Sandy Loam Till

TP 6-3
Mottles: 24"
Ground Water: N/O
Roots: 24"
Ledge: 84"
0-8" Topsoil
8-24" RB Fine Sandy Loam
24-84" GR Mottled Sandy Loam Till

TP 6-4
Mottles: 30"
Ground Water: N/O
Roots: 30"
Ledge: 89"
0-11" Topsoil
11-30" YB/RB Fine Sandy Loam
30-89" GR Mottled Sandy Loam Till

PERCOLATION TEST DATA
Performed by CLA Engineers, Inc. on 8/6/20

Perc 6-A: Presoak @ 12:22, 5"		
Time	Measuredown (Inches)	Change (inches)
1:16	3.25	-
1:18	7.25	4
1:20	9	1.75
1:22	11	2
1:24	12.25	1.25
1:26	13.25	1
1:28	14.5	1.25
1:30	15.5	1
1:32	16.5	1
1:34	17	0.5
1:36	17.5	0.5
1:38	18	0.5
1:40	18.5	0.5
1:42	19	0.5

Perc Rate = 4 min./inch

Perc 6-B: Presoak @ 12:27 pm, 6.5"		
Time	Measuredown (Inches)	Change (inches)
12:50	4.25	-
12:52	7.75	3.5
12:54	11	3.25
12:56	13.25	2.25
12:58	14.75	1.5
1:00	16.25	1.5
1:02	17.5	1.25
1:04	18.75	1.25
1:06	19.5	0.75
1:08	20.75	1.25
1:10	21.25	0.5
1:12	22.5	1.25

Perc Rate = 4 min./inch

SEPTIC SYSTEM DESIGN
PRIMARY LEACHING AREA
3 BEDROOM RESIDENCE
PERCOLATION RATE: 4 MIN./INCH
LEACHING AREA REQUIRED: 495 SF

USE 12"x48" STONE TRENCH
EFFECTIVE LEACHING AREA OF LEACHING TRENCH 3.0 SF/LF
REQUIRED LENGTH = 495 SF / 3.0 SF/LF = 165 LF

MLSS CALCULATION
HYDRAULIC FACTORS
DEPTH TO RESTRICTIVE LAYER = 24"
SLOPE = 10 VF / 86 LF = 11.6%
HYDRAULIC FACTOR (HF) = 26
FLOW FACTOR (FF) = 1.5
PERCOLATION FACTOR (PF) = 1.0 (UP TO 10.0 MIN./INCH)
MLSS REQUIRED: 26 x 1.5 x 1.0 = 39 LF

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

RESERVE LEACHING AREA
USE SAME AS PRIMARY SYSTEM

Know what's below. Call 811 before you dig.

No.	DATE	REVISION

CLA Engineers, Inc.
CIVIL · STRUCTURAL · SURVEYING
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(860) 886-1966 Fax (860) 886-9165

STATE OF CONNECTICUT · NICHOLAS J. MAURER · No. 24328 · LICENSED PROFESSIONAL ENGINEER

Subdivision Plan Prepared for Paul R. Lehto
#40 Almada Drive, Brooklyn, Connecticut

Two Lot Resubdivision
40 Almada Drive
Brooklyn, Connecticut

Lot Development Plan
Lot 1 & Lot 2

Project No. CLA-6383
Proj. Engineer K.J.H.
Date: 3/31/2021
Sheet No. 7

CLA

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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.
16. THE WETLANDS ENFORCEMENT OFFICER SHALL BE NOTIFIED AT LEAST 2 BUSINESS DAYS PRIOR TO CONSTRUCTION TO INSPECT EROSION CONTROLS.
17. THE WETLAND ENFORCEMENT OFFICER SHALL BE NOTIFIED AT THE COMPLETION OF WORK FOR FINAL INSPECTION AND SIGN OFF OF PERMIT COMPLIANCE.

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 SEDIMENT TRAP TO WATER QUALITY BASIN CONVERSION

THE WATER QUALITY BASINS ARE LOCATED AT A LOW POINTS IN THE DEVELOPED PORTION OF THE SITE TOPOGRAPHY AND WILL BE USED DURING CONSTRUCTION AS A TEMPORARY SEDIMENT TRAPS. THE TRAP WILL BE EXCAVATED TO THE FULL DEPTH PRIOR TO THE COMMENCEMENT OF OTHER SITE GRADING. THE HIGH-LEVEL RIP RAP OUTLET WILL BE INSTALLED AND WILL ALLOW WATER OUTFLOW AS THE BASIN ACCUMULATES SEDIMENTS. THE TRAP WILL BE INSPECTED AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS AFTER ANY RAINFALL OF 0.5 INCHES OR GREATER. THE SEDIMENT TRAP WILL BE CLEANED WHEN SEDIMENT ACCUMULATION EXCEEDS ONE HALF OF THE AVAILABLE WET STORAGE CAPACITY. SEDIMENTS REMOVED FROM THE SEDIMENT TRAP WILL BE PLACED OUTSIDE OF THE UPLAND REVIEW AREA IN THE DESIGNATED STOCKPILE AREAS. WHEN THE SURROUNDING AREAS ARE GRADED THE SEDIMENT TRAP SHALL BE EXCAVATED TO AN ELEVATION 6" BELOW THE FINISHED GRADE. 6" OF PERVIOUS TOPSOIL IS TO BE PROVIDED AND ALL AREAS PLANTED WITH SEED MIXES SPECIFIED HEREIN.

PERVIOUS TOPSOIL MIX FOR WATER QUALITY BASINS

THE FOLLOWING PERVIOUS TOPSOIL MIX SHALL BE USED IN THE STORMWATER TREATMENT BASINS. THE MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE M.13.01.1 OF DOT FORM 817 WITH THE FOLLOWING GRADATION:

SIEVE	% PASSING
#10	100%
#40	60-80%
#80	5%
#200	0%

DO NOT COMPACT MATERIAL DURING INSTALLATION

STORMWATER MANAGEMENT & POLLUTION PREVENTION PLAN

DURING CONSTRUCTION

1. POLLUTION PREVENTION TEAM:
   THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARRYING OUT THE PROVISIONS OF THIS PLAN.
2. SWEEPING:
   IMPERVIOUS SURFACES BEYOND THE WORK SITE SHALL BE SWEPT CLEAN OF SAND, SILT AND LITTER DAILY AT THE END OF THE WORK DAY.
3. OUTSIDE STORAGE:
   ACCESSORIES OR EQUIPMENT STORED OUTSIDE SHALL BE COVERED OR MAINTAINED TO MINIMIZE POSSIBILITY OF THESE MATERIALS OR THEIR RESIDUE PASSING TO STORM WATER.
4. WASHING:
   NO WASHING OF VEHICLES, ACCESSORIES, EQUIPMENT, OR APPLIANCES AT THE WORK SITE.
5. MAINTENANCE AND INSPECTION:
   A. THE CONTRACTOR SHALL INSPECT, REPAIR AND/OR REPLACE EROSION CONTROL MEASURES EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT.
   B. SEDIMENT DEPOSITS MUST BE REMOVED WHEN WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.
   C. REMOVE SEDIMENT DEPOSITS FROM TEMPORARY SEDIMENT TRAPS WHEN THE DEPOSITS REACH APPROXIMATELY ON HALF OF THE STORAGE VOLUME.
   D. DAILY DUST CONTROL USING WATER, OR APPROVED EQUAL SHALL BE PROVIDED FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS, SURFACES OF BACKFILLED TRENCHES AND GRAVELED SURFACES.
6. SPILLS OR ACCIDENTAL DISCHARGES:
   A. COMPLY WITH STATE AND FEDERAL REGULATIONS TO CONTAIN AND CLEAN UP ANY SPILL OR DISCHARGE AND DISPOSE OF MATERIALS AT AN APPROVED FACILITY.
   B. CONTACT CONNECTICUT DEEP OIL AND CHEMICAL SPILL RESPONSE DIVISION (860) 424-3338
   C. THE FOLLOWING STEPS SHOULD BE PERFORMED AS SOON AS POSSIBLE:
      a. STOP THE SOURCE OF THE SPILL
      b. CONTAIN THE SPILL
      c. COVER SPILL WITH ABSORBENT MATERIAL SUCH AS KITTY LITER, SAWDUST OR OIL ABSORBENT PADS. DO NOT USE STRAW.
      d. DISPOSE OF ABSORBER IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.

POST CONSTRUCTION

1. POLLUTION PREVENTION TEAM:
   TOWN OF BROOKLYN
2. THE PROPOSAL IS FOR THE TOWN OF BROOKLYN TO ACCEPT ALMADA DRIVE EXTENSION AS A TOWN ROAD THAT WILL BE INCORPORATED INTO THE TOWN MS4 OPERATIONS AND MAINTENANCE PROGRAM.

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 6 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

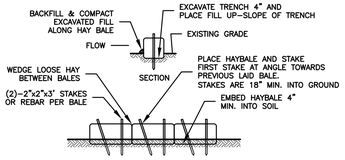
ALL DISTURBED AREAS	LBS./ACRE	LBS./1000 S.F.
KENTUCKY BLUEGRASS	20	0.45
CREEPING RED FESCUE	20	0.45
PERENNIAL RYEGRASS	5	0.10
	45	1.00

TYPICAL SEED MIXTURE FOR STEEP SLOPES (2:1 OR GREATER)

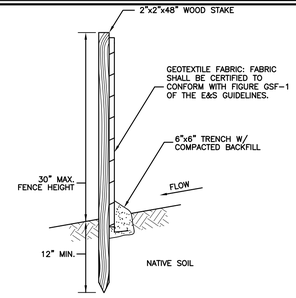
CT DEP SEED MIX NO. 6	LBS./ACRE	LBS./1000 S.F.
CREEPING RED FESCUE	20	0.50
REDTOP (STREEKER, COMMON)	2	0.05
PERENNIAL RYEGRASS	20	0.50
	42	1.05

THE RECOMMENDED SEEDING DATES ARE:
APRIL 1 - JUNE 15 AND AUGUST 15 - OCTOBER 15

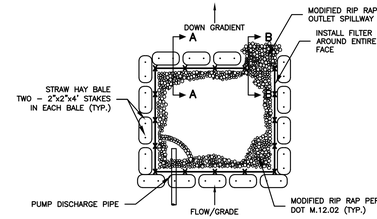
IMMEDIATELY FOLLOWING SEEDING, FIRM SEED BED WITH A ROLLER AND MULCH WITH WEED FREE STRAW. IF PERMANENT VEGETATIVE COVER IS HAS NOT BEEN ESTABLISHED BY OCTOBER 15, APPLY A TEMPORARY VEGETATIVE COVER ON THE TOPSOIL.



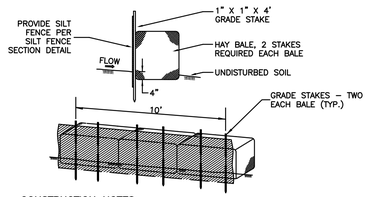
HAY BALE BARRIER DETAIL
NOT TO SCALE



SILT FENCE SECTION
NOT TO SCALE

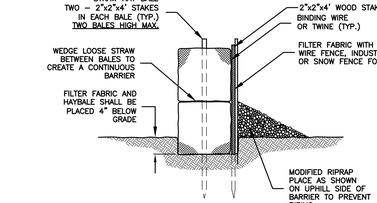


PLAN VIEW

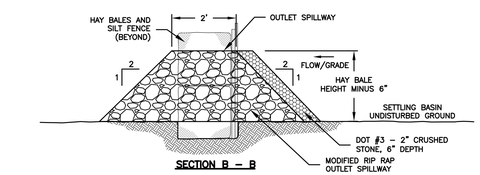


CONSTRUCTION NOTES:
1. SILT FENCE FILTER CLOTH TO BE SECURELY FASTENED TO GRADE STAKE WITH STAPLES, 6" ON CENTER.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN ONE ANOTHER THEY SHALL OVERLAP BY 6" AND BE FOLDED.
3. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.

SILT FENCE BACKED BY HAY BALES DETAIL
NOT TO SCALE



SECTION A - A

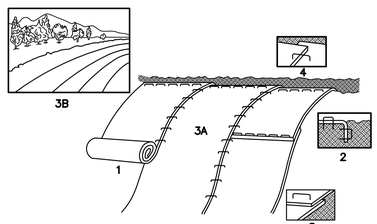


SECTION B - B

CONSTRUCTION NOTES:
1. SILT FENCE FILTER CLOTH TO BE SECURELY FASTENED TO GRADE STAKE WITH STAPLES, 6" ON CENTER.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN ONE ANOTHER THEY SHALL OVERLAP BY 6" AND BE FOLDED.
3. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.

DEWATERING PLAN
A CLEAR WATER DISCHARGE SHALL BE PROVIDED AS FOLLOWS:
1. PUMP INLET SHALL BE PROTECTED WITH FILTER FABRIC & CRUSHED STONE.
2. PUMP SHALL BE STAGED OUTSIDE OF WETLANDS.
3. THE WATER SHALL BE PUMPED TO A DEWATERING STRUCTURE WHICH SHALL BE LOCATED AT LEAST 50 FEET FROM ANY REGULATED WETLAND AREA OR AS SHOWN ON THE PLANS.
4. THE DEWATERING STRUCTURE SHALL BE SIZED TO ACCOMMODATE PUMP DISCHARGE RATE: **REQUIRED VOLUME (C.F.) = PUMP DISCHARGE (G.P.M.) x 15**
5. THE DEWATERING STRUCTURE SHALL DISCHARGED TO A VEGETATED AREA.
6. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN AND PROPERLY DISPOSED OF WHEN ACCUMULATION REACHES HALF OF THE REQUIRED STORAGE VOLUME.
7. DEWATERING AREA SHALL BE RESTORED WITH NEW ENGLAND EROSION CONTROL SEED MIX.

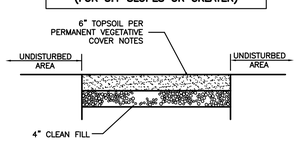
HAY BALE BARRIER DE-WATERING DETAIL
NOT TO SCALE



1. PROVIDE 6" 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.

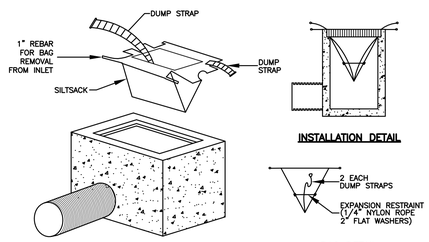
NOTE: ALL PERMANENT EROSION CONTROL BLANKETS ARE TO BE NORTH AMERICAN GREEN BIONET C125BN OR APPROVED EQUAL.

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

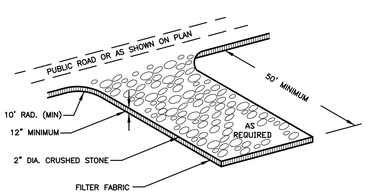


TYPICAL LOAM & SEED SECTION DETAIL (FOR ALL DISTURBED AREAS)

SLOPE STABILIZATION DETAILS
NOT TO SCALE



INLET SEDIMENT CONTROL DEVICE DETAIL
NOT TO SCALE



ANTI-TRACKING PAD DETAIL
NOT TO SCALE

NOTES:
1. STORMWATER LOG ENDS SHALL BE TIED TOGETHER, OVERLAPPED AT LEAST 24" OR BE SECURED AS RECOMMENDED BY THE MANUFACTURER.

STORMWATER SEDIMENT LOG (WATTLE) DETAIL
NOT TO SCALE

No.	DATE	REVISION

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STATE OF CONNECTICUT * KYLE T. HARTSHORN * No. 24256 * LICENSED PROFESSIONAL ENGINEER

Subdivision Plan Prepared for Paul R. Lehto
#40 Almada Drive, Brooklyn, Connecticut

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40 Almada Drive
Brooklyn, Connecticut

Stormwater Management Plan and Erosion & Sedimentation Control Details

Project No.	CLA-6383
Proj. Engineer	K.J.H.
Date:	3/31/2021
Sheet No.	8

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SEPTIC GENERAL NOTES

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

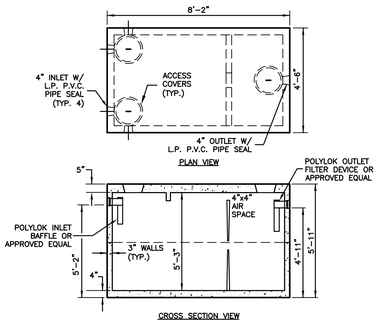
SELECT FILL SPECIFICATION

SELECT FILL PLACED WITHIN AND ADJACENT TO LEACHING SYSTEM AREAS SHALL BE CLEAN MATERIAL COMPRISED OF SAND, OR SAND AND GRAVEL, FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES. THE SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE APPROVED BY THE DESIGN P.E. SELECT FILL EXCEEDING 6 PERCENT PASSING THE #200 SIEVE BASED ON WET SIEVE ANALYSIS CANNOT BE APPROVED BY THE DESIGN P.E.

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

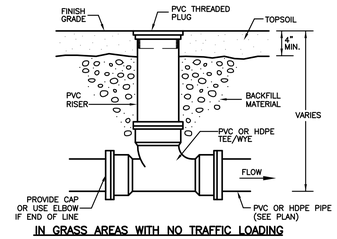
* PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75 IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10 AND THE #200 SIEVE DOES NOT EXCEED 5.



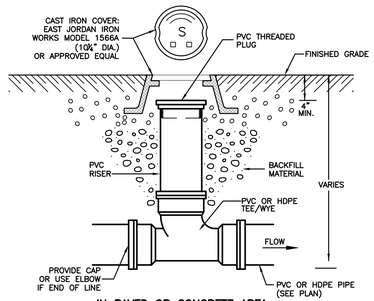
1. DIMENSIONS MAY VARY DEPENDING ON TANK MANUFACTURER (UNITED CONCRETE SHOWN)
2. CONCRETE – 4,000 P.S.I. AT 28 DAYS
3. STEEL REINFORCEMENT– ASTM A-615 GR. 60, A-185 OR A-497, 1" MIN. COVER
4. CONSTRUCTION JOINT–SEALED WITH 1" DIA. BUTYL RUBBER OR EQUIVALENT.
5. SEPTIC TANK SHALL MEET THE REQUIREMENTS OF SECTION 5 OF THE CT PUBLIC HEALTH CODE
6. PROVIDE RISERS AND ACCESS COVER TO WITHIN 12" OF FINISHED GRADE. TANK ACCESS COVERS TO REMAIN IN PLACE.

1,000 GALLON REGULAR DUTY SEPTIC TANK DETAIL

NOT TO SCALE



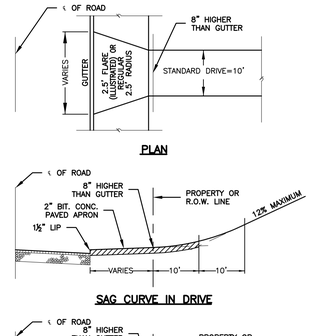
IN GRASS AREAS WITH NO TRAFFIC LOADING



IN PAVED OR CONCRETE AREA

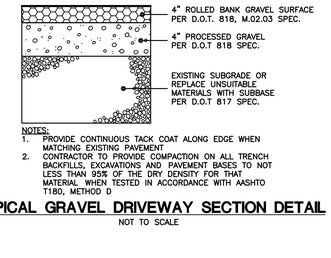
TYPICAL CLEAN-OUT DETAIL

NOT TO SCALE



TYPICAL DRIVEWAY DETAILS

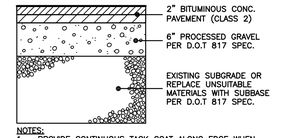
NOT TO SCALE



NOTES:
1. PROVIDE CONTINUOUS TACK COAT ALONG EDGE WHEN MATCHING EXISTING PAVEMENT
2. CONTRACTOR TO PROVIDE COMPACTION ON ALL TRENCH BACKFILLS, EXCAVATIONS AND PAVEMENT BASES TO NOT LESS THAN 95% OF THE DRY DENSITY FOR THAT MATERIAL WHEN TESTED IN ACCORDANCE WITH AASHTO T180, METHOD D

TYPICAL GRAVEL DRIVEWAY SECTION DETAIL

NOT TO SCALE



NOTES:
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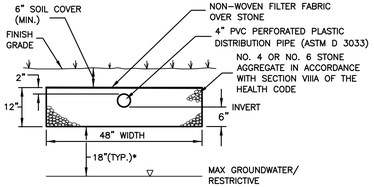
2. CONTRACTOR TO PROVIDE COMPACTION ON ALL TRENCH BACKFILLS, EXCAVATIONS AND PAVEMENT BASES TO NOT LESS THAN 95% OF THE DRY DENSITY FOR THAT MATERIAL WHEN TESTED IN ACCORDANCE WITH AASHTO T180, METHOD D

TYPICAL BITUMINOUS DRIVEWAY SECTION DETAIL

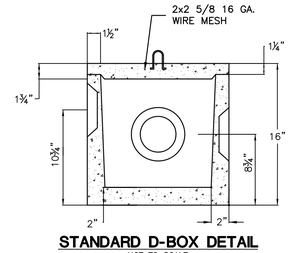
NOT TO SCALE



* INCREASE TO 24" WHERE PERC RATE IS FASTER THAN 5.0 MIN/IN

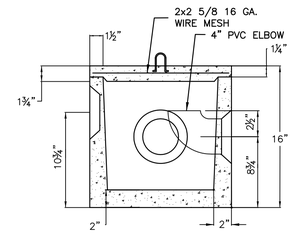
12" x 48" LEACHING TRENCH DETAIL

NOT TO SCALE



STANDARD D-BOX DETAIL

NOT TO SCALE



STANDARD D-BOX WITH ELBOW DETAIL

NOT TO SCALE

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