

TOWN OF LEDYARD

INLAND WETLANDS AND WATERCOURSES COMMISSION (IWWC)

APPLICATION FOR PERMIT (Or Commission ruling that a permit is not needed)

Street No./ Name:

5A Lorenz Ind Parkway

Application No.

Receipt Date

Date Submitted

Applicant/Agent

Owner (if different)

Address

Address of Owner

Phones

cell

Phone

• I have received information on the Army Corps of Engineers permit procedure.

• I have read and have included all the application and site plan requirements in Section 7 of the IWWC Regulations

Signature of Applicant/ Agent

Location of Property

Tax Assessor's Map No.

Zoning District

Written Description of Proposed Activity

Proposed Erosion/ Sediment Control Measures:

Total Area of Site

Total Area of Wetlands per Official Inventory Map

Amount of Fill, in Cubic Yards

Disturbed Area, in Square Feet

or in Acres

Area Increase/Decrease in Wetlands

(For Map Amendment Only*)

Soil Types from USDA Soil Survey

General Description of Vegetative Cover

Name and Address of Adjacent Property Owners

Anticipated Start Date

Completion Date

List previous IWWC application #'s

IWW Commission Disposition: IWWC Regulations; Section

Classification

Signature of Chair

FEE:

RECEIVED

\$60.00

State Fee =

DATE PAID

RECEIPT #

OCT 29 2024

Land Use Department

P:\Zoning\W_Application_7-1-13.doc

Town of Ledyard Property Summary Report

5A LORENZ IND PKWY

PARCEL ID:	138-1380-5A
LOCATION:	5A LORENZ IND PKWY
OWNER NAME:	A & R ASSOCIATES INC

OWNER OF RECORD

A & R ASSOCIATES INC

69 NOYCE AVE

STONINGTON, CT 06378

LIVING AREA:		ZONING:		ACREAGE:	0.96
--------------	--	---------	--	----------	------

CURRENT ASSESSED VALUE

TOTAL:	\$64,330.00	IMPROVEMENTS:	\$0.00	LAND:	\$64,330.00
--------	-------------	---------------	--------	-------	-------------

ASSESSING HISTORY

FISCAL YEAR	TOTAL VALUE	IMPROVEMENT VALUE	LAND VALUE
2022	\$64,330.00	\$0.00	\$64,330.00

BUILDING # 1

YEAR BUILT	NULL	ROOF STRUCTURE	NULL
STYLE	NULL	ROOF COVER	NULL
MODEL	Vacant	FLOOR COVER 1	NULL
GRADE	NULL	FLOOR COVER 2	NULL
STORIES	NULL	HEAT FUEL	NULL
OCCUPANCY		HEAT TYPE	NULL
EXT WALL 1	NULL	AC TYPE	NULL
EXT WALL 2	NULL	BEDROOMS	NULL
INT WALLS 1	NULL	FULL BATHS	NULL
INT WALLS 2	NULL	HALF BATHS	NULL
		TOT ROOMS	NULL



Inland Water Resources Division
Department of Environmental Protection
79 Elm Street, 3rd Floor
Hartford, CT 06106-5127
www.ct.gov/dep

GIS CODE #: _____
For DEP Use Only

Statewide Inland Wetlands & Watercourses Activity Reporting Form

Complete, print, **sign**, and mail this form in accordance with the instructions on pages 2 and 3.

PART I: To Be Completed By The Municipal Inland Wetlands Agency Only

1. DATE ACTION WAS TAKEN (use drop-down box): Year Month
2. ACTION TAKEN (use drop-down box):
3. WAS A PUBLIC HEARING HELD? (select one only) ☐ Yes ☐ No
4. NAME OF AGENCY OFFICIAL VERIFYING AND COMPLETING THIS FORM:
- (print): _____ (signature) _____

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

5. TOWN IN WHICH THE ACTION IS OCCURRING:
- Does this project cross municipal boundaries? (select one only) ☐ Yes ☒ No
- If Yes, list the other town(s) in which the action is occurring:
6. LOCATION: USGS Quad Map Name (see hyperlink): UNCAVING, LOW
Quad Number (see hyperlink):
Subregional Drainage Basin Number (see hyperlink): 2107
7. NAME OF APPLICANT, VIOLATOR OR PETITIONER: POOL GARDEN
8. NAME & ADDRESS/LOCATION OF PROJECT SITE: SA INDUSTRIAL LORRAZ
PARKWAY
- Briefly describe the action/project/activity: ☐ Temporary ☒ Permanent
CONSTRUCT NEW COMMERCIAL BUILDING
9. ACTIVITY PURPOSE CODE (Use drop-down box): D
10. ACTIVITY TYPE CODE(S) (Use drop-down box) 12
11. WETLAND / WATERCOURSE AREA ALTERED [must be provided in acres or linear feet as indicated]:
- Wetlands: 0 acres Open Water Body: _____ acres Stream: _____ linear feet
12. UPLAND REVIEW AREA ALTERED [must be provided in acres]: 0.3± acres
13. AREA OF WETLANDS AND / OR WATERCOURSES RESTORED, ENHANCED OR CREATED: 0 acres
[must be provided in acres]

PART III: To Be Completed By The DEP

DATE RECEIVED: _____ DATE RETURNED TO DEP: _____

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

After recording return to:

Deasy & Moriarty, LLC
P.O. Box 102
86 Denison Ave., Floor 2
Mystic, CT 06355

INSTR # 2024000017 VOL 640 PG 238
RECORDED 01/04/2024 12:38:55 PM
PATRICIA A. RILEY
TOWN CLERK LEDYARD CT
TOWN CONVEYANCE TAX \$1,012.50
STATE CONVEYANCE TAX \$5,062.50

WARRANTY DEED

TO ALL PEOPLE TO WHOM THESE PRESENTS SHALL COME, GREETING:

KNOW YE, that **7 LORENZ LLC**, a Connecticut Limited Liability Company, with an address of 41 Walnut Street, Hartford, Connecticut, hereinafter referred to as "Grantor," for the consideration of **FOUR HUNDRED FIVE THOUSAND AND 00/100 AND 00/100 Dollars (\$405,000.00)**, received to its full satisfaction of **A & R ASSOCIATES, INC.**, a Connecticut Corporation with an address of 69 Noyes Avenue, Stonington, Connecticut hereinafter referred to as "Grantee," does give, grant, bargain, sell, convey and confirm unto the said "Grantee", all that certain parcel of land, with any buildings and improvements thereon, located in the Town of Ledyard and State of Connecticut, being more particularly bounded and described as in Schedule "A" attached hereto and made a part hereof.

TO HAVE AND TO HOLD the above granted and bargained premises, with the appurtenances thereof, unto the said "Grantee," its successors and assigns forever to them and their own proper use and behoof.

AND ALSO, the said "Grantor" does for its successors and assigns, covenant with the said "Grantee," its successors and assigns, that at and until the ensealing of these presents, Grantor well seized of the premises as a good indefeasible estate in FEE SIMPLE; and has good right to bargain and sell the same in manner and form as is above written; and that the same is free from all encumbrances whatsoever, except as hereinbefore mentioned.

AND FURTHERMORE, the said "Grantor," does by these presents bind the heirs, successors and assigns of such Grantor forever to WARRANT AND DEFEND the above granted and bargained premises to the said "Grantee," its successors and assigns, against all claims and demands whatsoever, except as hereinbefore mentioned.

RECEIVED

OCT 29 2024

Land Use Department

WARRANTY DEED

PECK & TUNESKI, P.C

10 PEARL STREET, NEW LONDON, CONNECTICUT 06320 | (860) 447-3370
118 NEW LONDON TURNPIKE, NORWICH, CONNECTICUT 06360 | (860) 886-9225

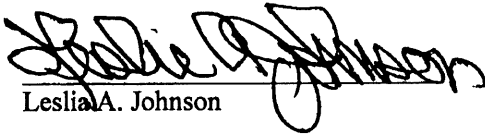
IN WITNESS WHEREOF, Grantor has caused these Presents to be executed this 28th day of December, 2023.

Signed, Sealed and Delivered in the presence of:

Witnesses:

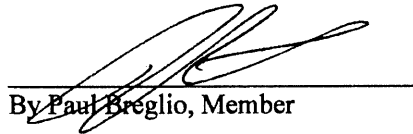


Garon Camassar



Leslie A. Johnson

7 LORENZ LLC



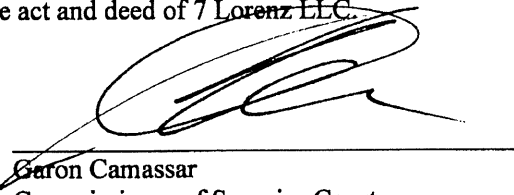
By Paul Breglio, Member

STATE OF CONNECTICUT

COUNTY OF NEW LONDON

)
) ss: New London
)

On this the 28th day of December, 2023, before me, the undersigned officer, personally appeared Paul Breglio, Member of 7 Lorenz LLC, known to me (or personally proven) to be the person whose name is subscribed to the within instrument and acknowledged that such signature was executed for the purposes therein contained, as his free act and deed and the free act and deed of 7 Lorenz LLC.



Garon Camassar
Commissioner of Superior Court

WARRANTY DEED

PECK & TUNESKI, P.C

10 PEARL STREET, NEW LONDON, CONNECTICUT 06320 | (860) 447-3370
118 NEW LONDON TURNPIKE, NORWICH, CONNECTICUT 06360 | (860) 886-9225

Schedule "A"

5 Lorenz Industrial Parkway (MBL 138-1380-5), Ledyard, Ct

All that certain piece or parcel of land, together with the buildings and improvements thereon, situated in the Town of Ledyard, County of New London and State of Connecticut, being known as 5 Lorenz Industrial Parkway, and being shown as "5 Area = 177,618 Sq. Ft. 4.07 Acres" on a Map entitled "Plan Showing Resubdivision Property of 7 Lorenz LLC 5 Lorenz Industrial Parkway Ledyard, Connecticut Scales as Shown August 2021 Revised December 9, 2021 Sheet 1 of 3 Dieter & Gardner Land Surveyors Planners" which Map is on file in the Office of the Ledyard Town Clerk as Map No. 3070 to which further reference may be had for a more particular description.

Together with a Declaration of Easement Agreement dated July 18, 2022 and recorded in Volume 624 at Page 471 of the Ledyard Land Records.

The above-described premises are subject to the following:

1. Real estate taxes that hereafter become due and payable which the Grantee herein agrees and assumes to pay.
2. Pole line Easement from James H. Cade in favor of The Southern New England Telephone Company dated 1/26/46 and recorded 12/11/46 in Volume 18 at Page 436 of the Ledyard Land Records.
3. 125-foot pole line right-of-way in favor of The Connecticut Light and Power Company as set forth in Easement dated 7/18/63 and recorded 7/25/63 in Volume 47 at Page 223; and set forth on map #140, all of the Ledyard Land Records.
4. Conditional for approval of variance set forth by the Town of Ledyard, Zoning Board of Appeals in a Notice dated 4/2/79 and recorded 4/6/79 in Volume 113 at Page 505 of the Ledyard Land Records.

WARRANTY DEED

PECK & TUNESKI, P.C

10 PEARL STREET, NEW LONDON, CONNECTICUT 06320 | (860) 447-3370
118 NEW LONDON TURNPIKE, NORWICH, CONNECTICUT 06360 | (860) 886-9225

5. 25-foot utility right-of-way in favor of The Connecticut Light and Power Company as set forth in Easement dated 3/12/85 and recorded 3/22/85 in Volume 142 at Page 343; and set forth on map #1137, all of the Ledyard Land Records.
6. Terms and conditions set forth in a Drainage Easement benefitting the subject property dated 4/22/85 and recorded 5/3/85 in Volume 143 at Page 280 of the Ledyard Land Records.
7. Agreement by and between The Connecticut Light and Power Company and Edward L. Lorenz dated 2/1/85 and recorded 5/15/85 in Volume 143 at Page 459 of the Ledyard Land Records. (NOTE: respecting an encroachment on the right-of-way granted in Volume 47 at Page 223)
8. Sloping and drainage easements in favor of the State of Connecticut as set forth in Deed dated 7/2/86 and recorded 7/11/86 in Volume 154 at Page 630; and set forth on map #1233, all of the Ledyard Land Records.
9. Sloping easements and 20-foot drainage right-of-way in favor of the State of Connecticut as set forth in Deed dated and recorded 11/3/86 in Volume 59 at Page 794; and set forth on map #1254, all of the Ledyard Land Records.
10. Set back lines, drainage rights and CL&P right-of-way as shown and set forth on Map entitled "Detail Layout Map Subdivision Lorenz Industrial Park Route #117 Ledyard, Conn." (Sheets 2 & 3 of 12) dated 1/31/90 and recorded 7/20/90 as map #s1608 & 1609 of the Ledyard Land Records.
11. Wetlands boundaries, drainage rights and CL&P right-of-way as shown on Map entitled "Plan Showing Resubdivision Lot 7 Lorenz Subdivision Property of Edward L. Lorenz Center Groton Road a.k.a. Connecticut State Route 117 Ledyard, Connecticut" dated 11/91 and recorded 2/25/92 as map #1696 of the Ledyard Land Records.
12. Drainage rights in favor of the Town of Ledyard as set forth in Warranty Deed dated 7/24/91 and recorded 11/9/92 in Volume 223 at Page 486 of the Ledyard Land Records.

5A Lorenz Industrial Parkway (MBL 138-1380-5A), Ledyard, Ct

All that certain piece or parcel of land, together with the buildings and improvements thereon, situated in the Town of Ledyard, County of New London and State of Connecticut, being known as 5 Lorenz Industrial Parkway, and being shown as "5A Area = 41,629 Sq. Ft. 0.96 Acres" on a Map entitled "Plan Showing Resubdivision Property of 7 Lorenz LLC 5 Lorenz Industrial Parkway Ledyard, Connecticut Scales as Shown August 2021 Revised December 9, 2021 Sheet 1 of 3 Dieter & Gardner Land Surveyors Planners" which Map is on file in the Office of the Ledyard Town Clerk as Map No. 3070 to which further reference may be had for a more particular description.

Together with a Declaration of Easement Agreement dated July 18, 2022 and recorded in Volume 624 at Page 471 of the Ledyard Land Records.

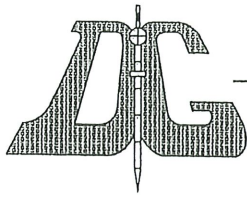
**WARRANTY DEED
PECK & TUNESKI, P.C**

10 PEARL STREET, NEW LONDON, CONNECTICUT 06320 | (860) 447-3370
118 NEW LONDON TURNPIKE, NORWICH, CONNECTICUT 06360 | (860) 886-9225

RECEIVED

OCT 29 2024

Land Use Department



DIETER & GARDNER, INC.

LAND SURVEYING • PLANNING • CIVIL ENGINEERING

RECEIVED

OCT 29 2024

Land Use Department

Elizabeth Burdick

October 29, 2024

Re: 5A Lorenz Industrial Parkway Ledyard, Ct. Submittal Package

- ~~1) Planning and Zoning application~~
- 2) Inland wetlands application
- 3) Memo authorizing Peter Gardner to act as agent
- 4) 5 sets site plans
- 5) 2 sets drainage calculations
- 6) 2 copies building plans
- 7) Street card.
- 8) Deed
- 9) Memo authorizing Commissions and Staff to walk property

ATR Associates Inc
Reid Simos
69 Noyes Ave

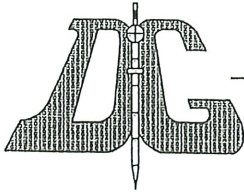
I, Reid Simos of ATR ASSOCIATES
President authorize Peter Gardener
TO Act as Agent per hedged
Building And Plant + Zoning Dept
Approvals.

Reid Simos 10-16-2024

RECEIVED

OCT 29 2024

Land Use Department



DIETER & GARDNER, INC.

LAND SURVEYING • PLANNING • CIVIL ENGINEERING

October 29, 2024

Memo authorizing Commission members and Town Staff to conduct a site walk.



Peter C. Gardner
Agent

RECEIVED

OCT 29 2024

Land Use Department



Ian T. Cole
Professional Registered Soil Scientist / Professional Wetland Scientist
PO BOX 619
Middletown, CT 06457
Itcole@gmail.com
860-514-5642

May 12, 2021

Dieter & Gardner, Inc.
 Mr. Peter Gardner P.L.S.
 P.O. Box 335
 Gales Ferry, CT 06335

RE: Wetland Delineation –7 Lorenz Industrial Parkway, Ledyard, Connecticut.

Dear Mr. Gardner:

I completed a wetland survey of the above referenced 2.37 -acre parcel. The purpose of this survey was to document all on-site jurisdictional wetlands and watercourses.

Wetland Delineation Methodology

A soil survey and wetland delineation were completed in accordance with the standards of the Natural Resources Conservation Services (NRCS) National Cooperative Soil Survey and the definitions of inland wetlands and watercourses as found in the Connecticut General Statutes, Chapter 440, Sections 22a-36 through 22a-45 as amended. Wetlands, as defined by the Statute are those soil types designated as poorly drained, very poorly drained, floodplain or alluvial in accordance with the NRCS National Cooperative Soil Survey. Such areas may also include disturbed areas that have been filled, graded, or excavated and which possess an aquatic (saturated) soil moisture regime.

Watercourses means rivers, streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs, and all other bodies of water, natural or artificial, vernal, or intermittent, public, or private, which are contained within, flow through or border upon the Town of Ledyard or any portion thereof not regulated pursuant to sections 22a-28 through 22a-35, inclusive, of the Connecticut General Statutes. Intermittent watercourses are defined permanent channel and bank and the occurrence of two or more of the following characteristics: (a) evidence of scour or deposits of recent alluvium or detritus, (b) the presence of standing or flowing water for duration longer than a particular storm incident, and (c) the presence of hydrophytic vegetation.

Wetland Delineation Results

The on-site soil survey was completed on May 10, 2020 to examine the upper 20" of the soil profiles for the presence of hydric soil conditions and delineate any wetland and/or watercourse boundaries located on the property.

The wetlands on the subject property occupy most of the eastern half of the property. The wetland boundary is well-defined, following along the toe-of-slope. The wetlands quickly give rise to the adjacent developed lands. The wetlands are classified as a red maple (*Acer rubrum*) forested wetland with a forest floor carpeted in skunk cabbage (*Symplocarpus foetidus*) and is associated with a intermittent watercourse that flows through the center of the wetland. Where the Eversource Powerline Rights-of-Ways (ROW) vegetation is maintained, the wetland is dominated by a Phragmites stand and low-lying scrub wetland vegetation.

Sequentially numbered wetland flags, 1 to 18 and 1A to 13A represent the wetland limits as flagged in the field. Figure 1 illustrates the approximate flag locations. The provided figure is for planning purposes only and the field location and subsequent mapping supersedes this sketch.

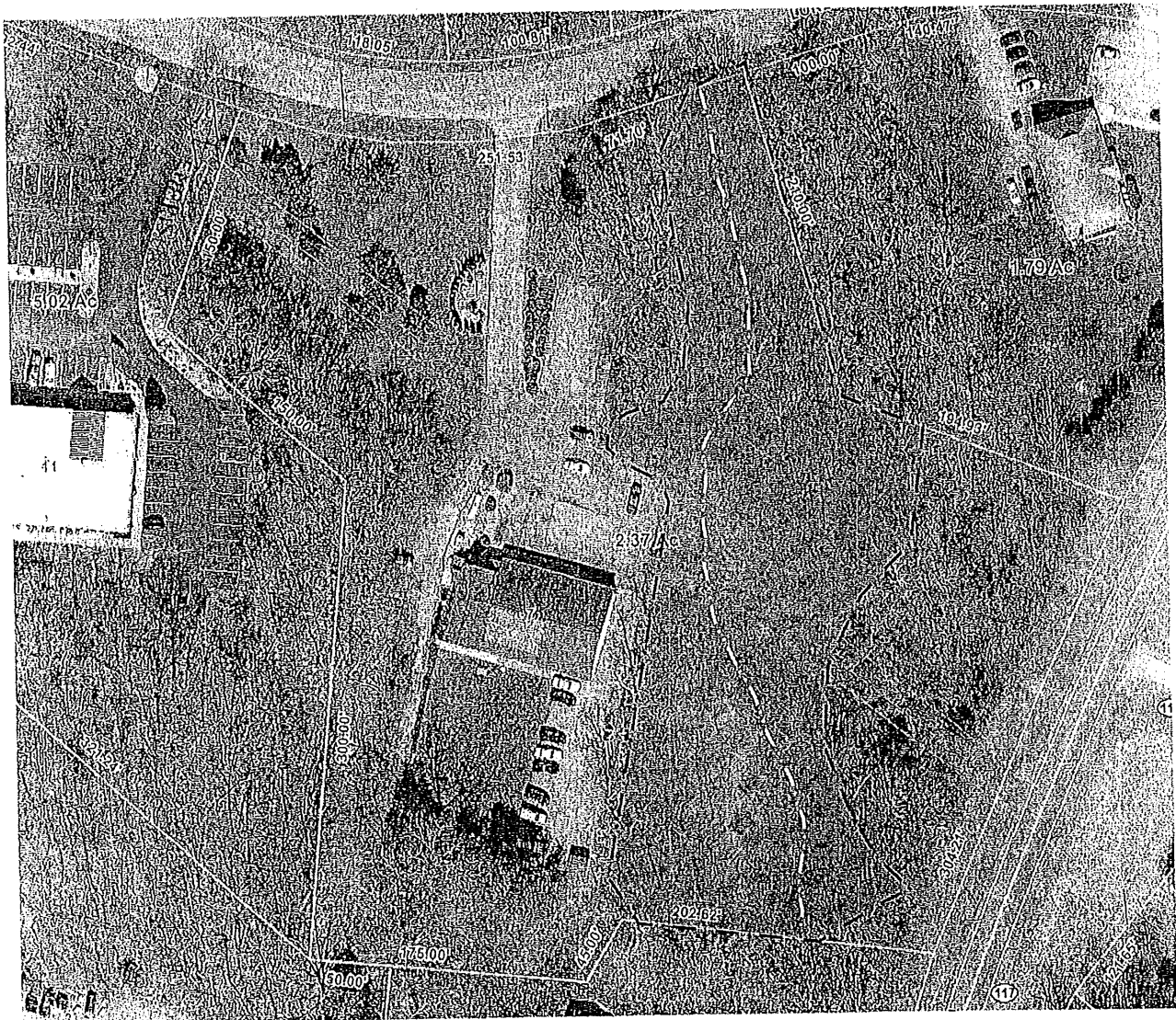


Figure 1: Wetland Sketch



Photo 1: Red Maple Forested Swamp



Photo 2: Phragmites Wetland / Powerline ROW

Soil Survey

The soils identified on the site are a refinement of the Natural Resources Conservation Service (NRCS) Websoil survey (See attached).

Wetlands soils along the wetland boundary are mapped and classified as (3) Ridgebury, Leicester, and Whitman fine sandy loams. The poorly drained soils along the wetland boundary belong to the Ridgebury and Leicester soil series. Ridgebury and Leicester soils are found within drainageways and depressions on glacial till landscapes. Ridgebury and Leicester soils have a seasonal high-water table at a depth of about 6 inches.

A typical soil profile along the wetland boundary consists of approximately 3"-0" of intermediately decomposed organic material (Oi), followed by 0"-6" of a thick dark topsoil horizon (A), underlain by 6"-18" of a wet weakly developed grayish subsoil horizon (Bg) with common redoximorphic features (Common medium distinct strong brown mottles, masses) ranging from fine sandy loam to very fine sandy loam. This subsoil is underlain by a saturated sandy loam to fine sandy loam gray substratum (2Cg).

The developed upland areas are classified as Urban land complex which contains miscellaneous soil types that are present on the landscape in a complex pattern that is not practical or necessary to separate. Urban land is used to denote well drained earthen material which has been so disturbed by cutting, filling, or grading, that the original soil profile can no longer be discerned and are co-associated with buildings, roads, parking lots and landscaping of highly developed areas. The undisturbed naturally occurring soils are mapped and classified as well-drained Charlton – Chatfield soil complex. It is noteworthy that shallow depth to bedrock in Chatfield soils can be a limiting factor for development.

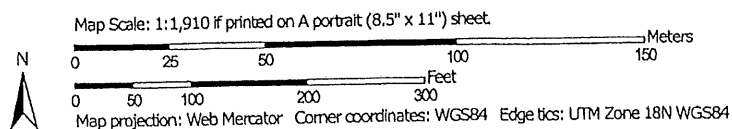


Photo 3: Uplands / Existing Entrance

Soil Map—State of Connecticut
(7 Lorenz Industrial Pkwy)



Soil map may not be valid at this scale.



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

5/12/2021
Page 1 of 3

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 20, 2019—Mar 27, 2019

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 LEGEND

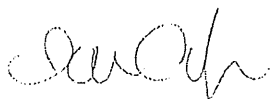
Area of Interest (AOI)	Soil Area
Area of Interest (AOI)	Stony Spot
Soils	Very Stony Spot
Soil Map Unit Polygons	Wet Spot
Soil Map Unit Lines	Other
Soil Map Unit Points	Special Line Features
Special Point Features	Water Features
Blowout	Streams and Canals
Borrow Pit	Transportation
Clay Spot	Rails
Closed Depression	Interstate Highways
Gravel Pit	US Routes
Gravelly Spot	Major Roads
Landfill	Local Roads
Lava Flow	Background
Marsh or swamp	Aerial Photography
Mine or Quarry	
Miscellaneous Water	
Perennial Water	
Rock Outcrop	
Saline Spot	
Sandy Spot	
Severely Eroded Spot	
Sinkhole	
Slide or Slip	
Sodic Spot	

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	7.3	37.2%
73C	Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky	8.2	41.5%
73E	Charlton-Chatfield complex, 15 to 45 percent slopes, very rocky	3.8	19.2%
75E	Hollis-Chatfield-Rock outcrop complex, 15 to 45 percent slopes	0.4	2.1%
Totals for Area of Interest		19.7	100.0%

If you have any questions or comments, please do not hesitate to contact me at itcole@gmail.com
or (860) 514-5642

Sincerely,



Ian T. Cole
Professional Registered Soil Scientist
Professional Wetland Scientist #2006

PREPARED BY JRM	DATE PREPARED 10/1/2024	LBM Engineering, LLC 11 HALLY LANE COLCHESTER, CONNECTICUT 06415 TEL: (860)-416-9809 EMAIL: JOHN@LBMENGINEERING.COM	JOB NUMBER	PAGE NUMBER 1
CHECKED BY	DATE CHECKED		CLIENT NAME	TOTAL PAGES 3

RECEIVED

5A LORENZ INDUSTRIAL PARKWAY

OCT 29 2024

DRAINAGE ANALYSIS

Land Use Department

CONSTRUCTION OF THE PROPOSED BUILDING AND
NEW PAVED PARKING AREA WILL INCREASE
THE IMPERVIOUS SURFACES BY 3,700 SQ FT.
(0.085 ACRES)

USING THE RATIONAL METHOD: $Q = A \times I \times R$

A (AREA IN ACRES)

I (IMPERVIOUS COEFFICIENT) = 0.9 PAVEMENT/ROOF
= 0.25 LAWN/VEGETATION

R (RAINFALL RATE INCHES/HOUR)

10 MINUTE TIME OF CONCENTRATION $R = 5.5 \text{ IN/HR}$

Q_{25 YR} EXISTING $0.085 \times 0.25 \times 5.5 = 0.12 \text{ CFS}$

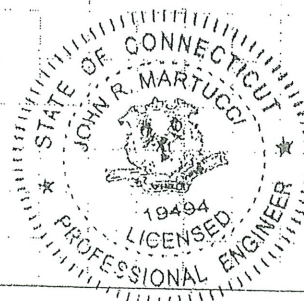
Q_{25 YR} PROPOSED $0.085 \times 0.90 \times 5.5 = 0.42 \text{ CFS}$

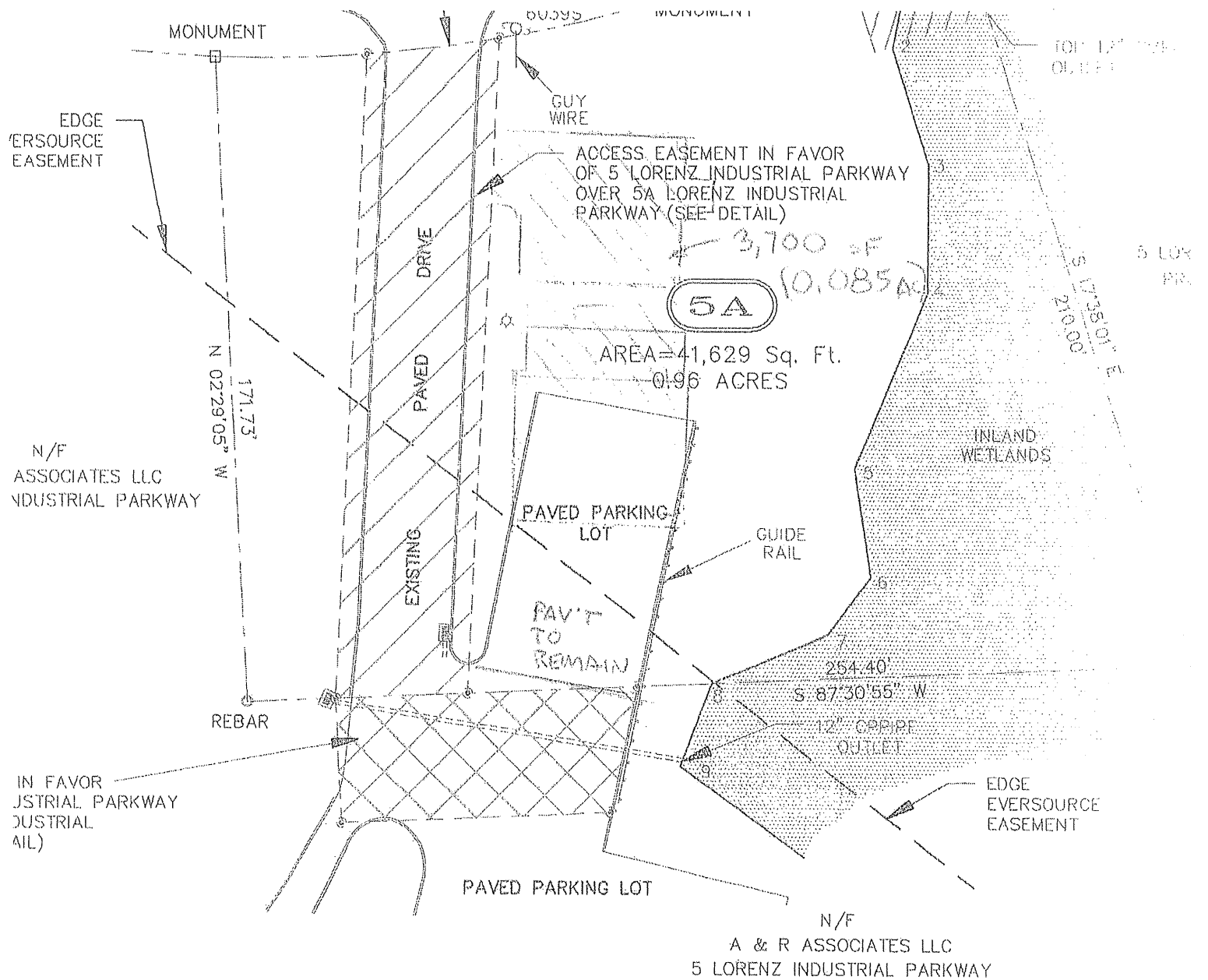
Q_{25 YR} INCREASE 0.30 CFS

CONCLUSION: THE SITE IS AT THE VERY BOTTOM OF THE
THAMES RIVER WATERSHED. THE SMALL INCREASE
IN PEAK FLOW WILL NOT INCREASE THE
POTENTIAL OF DOWNSTREAM FLOODING.

SUBMITTED BY
LBM ENGINEERING LLC

John R Martucci
JOHN R. MARTUCCI, P.E.





EXISTING CONDITIONS

GRAPHIC SCALE



DRAINAGE
AREA MAP

P. 2 OF 3

SMALL DRAINAGE AREAS W/ OVERLAP
& PAVEMENT, MIXED -- USE 10 MINUTE

DURATION (min)	DURATION (hr)	RAINFALL INTENSITY (in/hr)					
		2 Yr	5 Yr	10 Yr	25 Yr	50 Yr	100 Yr
5	0.08	4.6	5.5	6.0	6.7	7.3	7.8
6	0.10	4.4	5.2	5.8	6.5	7.0	7.5
7	0.12	4.2	5.0	5.5	6.2	6.8	7.2
8	0.13	4.0	4.8	5.3	6.0	6.5	7.0
9	0.15	3.8	4.6	5.1	5.7	6.2	6.7
10	0.17	3.6	4.3	4.8	5.5	6.0	6.5
11	0.18	3.4	4.2	4.7	5.3	5.8	6.3
12	0.20	3.3	4.0	4.5	5.1	5.6	6.1
13	0.22	3.1	3.8	4.3	5.0	5.4	5.9
14	0.23	3.0	3.7	4.2	4.8	5.3	5.7
15	0.25	2.8	3.5	4.0	4.6	5.1	5.5
16	0.27	2.8	3.5	3.9	4.5	5.0	5.4
17	0.28	2.7	3.4	3.8	4.4	4.9	5.4
18	0.30	2.7	3.3	3.8	4.4	4.8	5.3
19	0.32	2.6	3.2	3.7	4.3	4.7	5.2
20	0.33	2.5	3.2	3.6	4.2	4.6	5.1
21	0.35	2.5	3.1	3.5	4.1	4.5	5.0
22	0.37	2.4	3.0	3.4	4.0	4.4	4.9
23	0.38	2.3	2.9	3.4	3.9	4.3	4.8
24	0.40	2.3	2.9	3.3	3.8	4.2	4.7
25	0.42	2.2	2.8	3.2	3.7	4.2	4.6
26	0.43	2.2	2.7	3.1	3.7	4.1	4.5
27	0.45	2.1	2.7	3.0	3.6	4.0	4.4
28	0.47	2.0	2.6	3.0	3.5	3.9	4.3
29	0.48	2.0	2.5	2.9	3.4	3.8	4.2
30	0.50	1.9	2.4	2.8	3.3	3.7	4.1

Rainfall Intensity/Duration/Frequency Relationship for Connecticut (English Units)
Table B-2.1