

October 7, 2024

Steve Puleo, Planning Director Town of Windham 8 School Road Windham, ME 04062

Re: Sketch Major Site Plan and Sketch Major Subdivision Plan Applications

Turning Leaf Heights

Gateway Development, LLC - Applicant

Dear Steve:

On behalf of Gateway Development, LLC we have prepared the enclosed application and plan for review of a Major Site Sketch Plan and Major Subdivision Sketch Plan for a proposed 146-unit residential development project on a 12.2-acre property located off Turning Leaf Drive and Drive In Lane. This project had previously been reviewed by the Planning Board as a Sketch Plan in June of 2023 as an 80-unit project consisting entirely of 2-unit and 4-unit townhouse style units. We have revised the project design to modify the road layout and replace some of the townhouse buildings with 3-story multi-family building that consist of three (3) buildings with 30 units each and two (2) buildings with 12 units each. Seven (7) townhouse style buildings with 4 units each and two duplex townhouse buildings remain from the previous design.

The property is located in the Commercial-1 Zone and is generally undeveloped woodland, bordered by Ditch Brook to the east. The buildings will be accessed by a 1,200-foot extension of Turning Leaf Drive and a 600-foot extension of Drive In Lane. The roadways will be constructed to the Major Private Road standard with 24 feet of pavement width, curbing and sidewalk. On-street parallel parking will be provided in areas where feasible. The townhouse buildings will include garage and driveway parking for each unit. The 3-story buildings will utilize off-street parking lots that will be constructed on the property. The 114 units that will utilize the parking lots will have access to 196 parking spaces on the property.

We will perform a traffic study to estimate the vehicle traffic that will be generated by the project and to ensure that the estimated increases in vehicle traffic will not produce a significant negative impact to Roosevelt Trail. We do not anticipate the need to perform any market studies for the proposed development.

We are in the process of coordinating water service to the project with the Portland Water District. Based on our preliminary inventory of available public utilities we anticipate that sufficient capacity exists to connect the project to public water and underground electrical service. We understand that the Town is in the process of developing final plans and construction schedules for the public sewer system, and this project is being designed to

connect to public sewer. Soils on the property consist of Hinckley loamy sand and we anticipate a relatively deep water table on the portion of the property that is proposed for development. A Class-A high intensity soil survey has already been completed for this project.

Based on a review of the enclosed property deed the only easements that appear to exist on the property are related to a cul-de-sac area reserved for a potential terminus of Turning Leaf Drive. With the roadways extending to provide a loop connection, the cul-de-sac is no longer needed and we will provide the necessary documentation demonstrating that the easement will be modified to follow the new driveway right-of-way.

The project requires a Site Location Permit from the Maine Department of Environmental Protection, which has already been submitted to the Department for review. The project site contains a vernal pool, and we are currently working within the Maine DEP to determine if the pool is jurisdictionally significant.

Upon your review of this information, please let us know if you have any questions or require any additional information.

Sincerely,

DM ROMA CONSULTING ENGINEERS

Dustin M. Roma, P.E.

Dustin Roma

President



Town of Windham Planning Department: 8 School Road Windham, Maine 04062 Tel: (207) 894-5960 ext. 2 Fax: (207) 892-1916 www.windhammaine.us

SKETCH PLAN - MAJOR SITE PLAN REVIEW APPLICATION AMOUNT PAID: **APPLICATION FEE:** X \$200.00 **FEES FOR SKETCH PLAN REVIEW** X \$400.00 **REVIEW ESCROW:** DATE: Office Use: Office Stamp Zoning **Total Land** 9-B 14 C-1 12 Acres Parcel ID Map(s)# Lot(s) # District(s) Area SF **PROPERTY** X Y N Est. Building SF: 70,000 SF No Building; Est. SF of Total Development: Total Disturbance. >1Ac **DESCRIPTION** Physical 0 Turning Leaf Drive watershed: Ditch Brook to Presumpscot River Address: Name of Gateway Development, LLC Name: **Business: PROPERTY** (207) 310 - 0063 26 Fieldcrest Road Phone: Mailing **OWNER'S** Address: Windham, ME 04062 **INFORMATION** Fax or Cell: brich@pas-maine.com Email: Name of Same as Owner Name: **Business:** APPLICANT'S **INFORMATION** Phone: Mailing (IF DIFFERENT Address: Fax or Cell: FROM OWNER) Email: Name of **Dustin Roma** DM Roma Consulting Engineers Name: **Business: APPLICANT'S** PO Box 1116 (207) 591 - 5055 Phone: Mailing **AGENT** Address: **INFORMATION** Windham, ME 04062 (207) 310 - 0506Fax or Cell: dustin@dmroma.com Email:

Existing Land Use (Use extra paper, if necessary):

Generally undeveloped land

Provide a narrative description of the Proposed Project (Use extra paper, if necessary):

Proposed multifamily development consisting of three (3) buildings with 30 units each, two (2) buildings with 12 units each, seven (7) buildings with four (4) units each, and two duplex buildings for a total of 146 dwelling units. Approximately 1,900 ft of new roadway to be built as extensions of Turning Leaf Drive and Drive In Lane. All units served by public water and public sewer.

Provide a narrative description of construction constraints (wetlands, shoreland zone, flood plain, non-conformance, etc.):

Portion of property is within the Stream Protection shorland zone, some areas of slopes.

PROJECT INFORMATION

SKETCH PLAN REVIEW APPLICATION REQUIREMENTS - MAJOR SITE PLAN

Section 811 of the Land Use Ordinance

The submission shall contain, five (5) copies of the following information, including full plan sets. Along with one (1) electronic version of the entire submission unless a waiver of a submission requirement is granted.

The Sketch Plan document/map:

A) Plan size: 24" X 36"

B) Plan Scale: No greater 1":100'

C) Title block: Applicant's name and address

- Name of the preparer of plans with professional information
- Parcel's tax map identification (map and lot) and street address, if available

 Complete application submission deadline: three (3) weeks prior to the desired Planning Board or Staff Review Committee meeting.

- Five copies of the application and plans
- Application Payment and Review Escrow
- A pre-submission meeting with the Town staff is required.
- Contact information:

Windham Planning Department (207) 894-5960, ext. 2
Steve Puleo, Town Planner sipuleo@windhammaine.us
Amanda Lessard, Planning Director allessard@windhammaine.us

APPLICANT/PLANNER'S CHECKLIST FOR SKETCH PLAN REVIEW

SUBMITTALS THAT THE TOWN PLANNER DEEMS SUFFICIENTLY LACKING IN CONTENT WILL NOT BE SCHEDULED FOR PLANNING BOARD SKETCH PLAN REVIEW.

The following checklist includes items generally required for development by the Town of Windham's LAND USE ORDINANCE, Sections 811, 812, & 813. Due to projects specifics, are required to provide a complete and accurate set of plans, reports, and supporting documentation (as listed in the checklist below).

IT IS THE RESPONSIBILITY OF THE APPLICANT TO PRESENT A CLEAR UNDERSTANDING OF THE PROJECT.

NOTE TO APPLICANT: PRIOR TO THE SITE WALK, TEMPORARY MARKERS MUST BE ADEQUATELY PLACED THAT ENABLE THE PLANNING BOARD TO READILY LOCATE AND APPRAISE THE LAYOUT OF DEVELOPMENT (SEE RULES OF PLANNING BOARD FOR MORE SPECIFIC INFORMATION, PER SECTION 807.D.2.).

documentation (as listed in the checklist below).					
Submission Requirements:	Applicant	Staff		Applicant	Staff
a) Completed Sketch Plan Application form	K		h) Copy of portion of the USGS topographic map of the		
b) Proposed Project Conditions:			area, showing the boundaries of the proposed subdivision.		
- Condition of the site	X		Copy of that portion of the Cumberland County Medium		
- Proposed use	×		Intensity Soil Survey covering the proposed subdivision, showing the boundaries of the proposed subdivision Submit initialed form regarding additional fees, from applicant intro packet	×	
- Constraints/opportunities of the site			Plan Requirements		
- Constraints/opportunities of the site		_	a) Name of subdivision, north arrow, date, and scale	X	
Outline any of the follow			b) Name of subdivision, north arrow, date, and scale	×	
- Traffic Study	×		c) Approximate location, width, and purpose of easements or restrictions	×	
- Utility Study	X]
- Marker Study			d) Streets on and adjacent to the tract.		
c) Name, address, phone for record owner and applicant	×		e) Approximate location and size of existing utilities on and		
d) Names and addresses of all consultants working on the project	×		adjacent to the tract, including utility poles and hydrants (if none, so state)	×	
e) Evidence of right, title, or interest in the property					
f) Evidence of payment of Sketch Plan fees and escrow deposit	×		f) Existing buildings, structures, or other improvements on the site	×	
g) Any anticipated waiver requests (Section 808)			the site		
Waivers from Submission Criteria. Will the applicant be requesting waivers from the "Submission information for which a Waiver May be Granted"?			g) Major natural features of the site, approximated by the		
 If yes, submit a letter with waivers being requested, along with a completed "Performance & design Standards Waiver Request Form. 			applicant include wetlands, streams and ponds, floodplains, groundwater aquifers, treelines, significant wildlife habitat and fisheries, and any other important	×	
Waivers from Subdivision Performance Standards in Section 812 of the Land Use Ordinance.	×		features.		
- If yes, submit a letter with the waivers being requested,					
along with a completed "Performance and Design Standards Waiver Request" form.		٦	PDF Electronic Submission	×	

The undersigned hereby makes an	application to the	Town of Windham	for approval of	f the proposed	project and declares the for	egoing to be true and accurat
to the best of his/her knowledge.	\wedge					

10-7-24

Dustin Roma - Agent



Town of Windham

Planning Department: 8 School Road Windham, Maine 04062 Tel: (207) 894-5960 ext. 2 Fax: (207) 892-1916 -

SKETCH PLAN REVIEW - MAJOR\MINOR SUBDIVISION APPLICATION APPLICATION FEE: × \$200.00 AMOUNT PAID: **FEES FOR SKETCH PLAN REVIEW REVIEW ESCROW:** \$300.00 - MINOR ¥ \$400.00 - MAJOR DATE: _____ Office Use: Office Stamp: Zoning 9-B **Total Land** C-1 14 12 Acres Map# Parcel ID Lot(s) # District(s): Area SF: **PROPERTY** X Υ 70,000 SF Est. Building SF: Total Disturbance. >1Ac No Building; Est. SF of Total Development **DESCRIPTION** Physical 0 Turning Leaf Drive Ditch Brook to Presumpscot River Watershed: Address: Name of Gateway Development, LLC Name: **Business: PROPERTY** (207) 310 - 006326 Fieldcrest Road Phone: Mailing **OWNER'S** Address: Windham, ME 04062 **INFORMATION** Fax or Cell: brich@pas-maine.com Email: Name of Same as Owner Name: **Business: APPLICANT'S INFORMATION** Phone: Mailing (IF DIFFERENT Address: Fax or Cell: FROM OWNER) Email: Name of **Dustin Roma DM Roma Consulting Engineers** Name: **Business: APPLICANT'S** (207) 591 - 5055 PO Box 1116 Phone: **AGENT** Mailing Address: Windham, ME 04062 (207) 310 - 0506 **INFORMATION** Fax or Cell: dustin@dmroma.com Email: Existing Land Use (Use extra paper, if necessary): Generally undeveloped land Provide a narrative description of the Proposed Project (Use extra paper, if necessary): PROJECT INFORMATION Proposed multifamily development consisting of three (3) buildings with 30 units each, two (2) buildings with 12 units each, seven (7) buildings with four (4) units each, and two duplex buildings for a total of 146 dwelling units. Approximately 1,900 ft of new roadway to be built as extensions of Turning Leaf Drive and Drive In Lane. All units served by public water and public sewer. Provide a narrative description of construction constraints (wetlands, shoreland zone, flood plain, non-conformance, etc. Use extra paper, if necessary): Portion of property is within Stream Protection Shoreland Zone, some areas of slopes.

SKETCH PLAN MAJOR\MINOR SUBDIVISION APPLICATION REQUIREMENTS

Section 910 of the Land Use Ordinance

The submission shall contain, five (5) copies of the following information, including full plan sets. Along with one (1) electronic version of the entire submission unless a waiver of a submission requirement is granted.

The Sketch Plan document/map:

A) Plan size: 24" X 36"

B) Plan Scale: No greater 1":100'

C) Title block: Applicant's name and address

- Name of the preparer of plans with professional information
- Parcel's tax map identification (map and lot) and street address, if available

Complete application submission deadline: three (3) weeks prior to the desired Planning Board or Staff Review Committee meeting.

- Five copies of the application and plans
- Application Payment and Review Escrow
- Pre-submission meeting with the Town staff is required.
- Contact information:

Windham Planning Department (207) 894-5960, ext. 2
Steve Puleo, Town Planner sipuleo@windhammaine.us allessard@windhammaine.us

APPLICANT/PLANNER'S CHECKLIST FOR SKETCH PLAN REVIEW REQUIREMENTS

SUBMITTALS THAT THE TOWN PLANNER DEEMS INCOMPLETE IN CONTENT WILL NOT BE SCHEDULED FOR PLANNING BOARD REVIEW.

The following checklist includes items generally required for development by Windham's LAND USE ORDINANCE, Section 910. Due to projects specifics, are required to provide a complete and accurate set of plans, reports, and supporting documentation.

IT IS THE RESPONSIBILITY OF THE APPLICANT TO PRESENT A CLEAR UNDERSTANDING OF THE PROJECT.

NOTE TO APPLICANT: PRIOR TO THE SITE WALK, TEMPORARY MARKERS MUST BE ADEQUATELY PLACED THAT ENABLE THE PLANNING BOARD TO READILY LOCATE AND APPRAISE THE LAYOUT OF DEVELOPMENT (SEE RULES OF PLANNING BOARD FOR MORE SPECIFICS. PER SECTION 906.C.3.).

	_		FOR WORE SPECIFICS, PER SECTION 900.C.S.		
Submission Requirements:	Applicant	Staff		Applicant	Staff
a) Completed Sketch Plan Application form	×		h) Copy of portion of the USGS topographic map of the area,		П
b) Proposed Project Conditions:			showing the boundaries of the proposed subdivision.]
- Condition of the site	\Box		Copy of that portion of the Cumberland County Medium		
- Proposed use	×		Intensity Soil Survey covering the proposed subdivision, showing the boundaries of the proposed subdivision Submit initialed form regarding additional fees, from applicant intro packet	×	
- Constraints/opportunities of the site	\bowtie		Plan Requirements		
constraints/opportunities of the site			1. Name of subdivision, north arrow, date, and scale	X	
Outline any of the follow			2. Name of subdivision, north arrow, date, and scale	N N	П
- Traffic Study	×		Approximate location, width, and purpose of easements or restrictions	\boxtimes	
- Utility Study	×			×	
- Marker Study			Streets on and adjacent to the tract.		
c) Name, address, phone for record owner and applicant	×		5. Approximate location and size of existing utilities on and		
d) Names and addresses of all consultants working on the project	K		adjacent to the tract, including utility poles and hydrants (if none, so state)	×	
e) Evidence of right, title, or interest in the property	\boxtimes				
f) Evidence of payment of Sketch Plan fees and escrow deposit	×		Existing buildings, structures, or other improvements on the site	×	
g) Any anticipated waiver requests (Section 908)			site		
Waivers from Submission Criteria. Will the applicant be requesting waivers from the "Submission information for which a Waiver May be Granted"?					
 If yes, submit a letter with waivers being requested, along with a completed "Performance & design Standards Waiver Request Form. 			 Major natural features of the site, approximated by the applicant including wetlands, streams and ponds, floodplains, groundwater aquifers, treelines, significant wildlife habitat and fisheries, and any other important 	×	
Waivers from Subdivision Performance Standards in Section 911 of the Land Use Ordinance.			features.		
- If yes, submit a letter with the waivers being					
requested, along with a completed "Performance and Design Standards Waiver Request" form.			PDF Electronic Submission	×	

The undersigned hereby makes an application to the Town of Windham for approval of the proposed project and declares the foregoing to be true and accurate to the best of his/her knowledge.

10-7-24

APPLICANT OR AGENT'S SIGNATURE DATE

PLEASE TYPE OR PRINT THE NAME

Dustin Roma - Agent

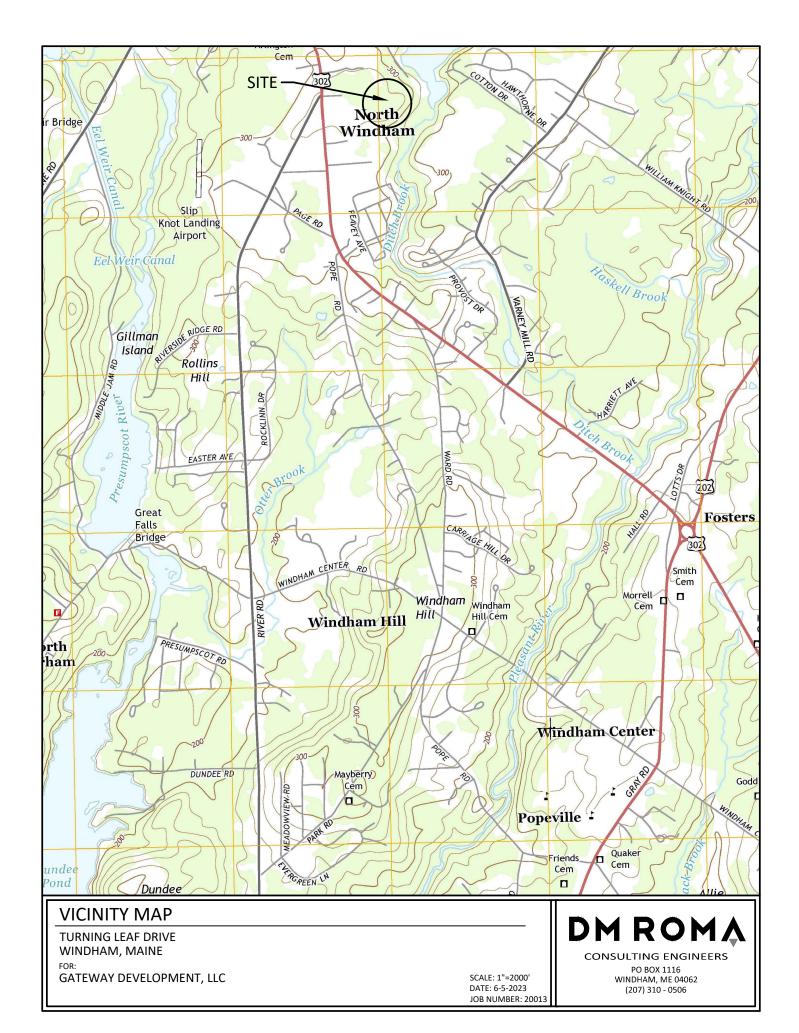
Re: Agent Authorization

Gateway Development, LLC is the owner of an approximately 12-acre parcel located on Turning Leaf Drive in Windham, Maine. The property is shown as Lot 9B on the Town of Windham assessor's map 14. DM Roma Consulting Engineers has been retained to assist in the preparation of land use permits associated with the development, and is authorized to act as agent for the project.

Sincerely,

Blaine Rich

Gateway Development, LLC



QUITCLAIM DEED WITH COVENANT

TIMM REALTY LLC, a Maine limited liability company with a place of business in Freeport, Maine ("Grantor"), for consideration paid, grants to GATEWAY DEVELOPMENT, LLC, a Maine limited liability company with a place of business in Windham, Maine ("Grantee"), a parcel of land in the Town of Windham, Cumberland County, Maine, such parcels being more particularly described on Exhibit A attached hereto.

Grantor is the successor holder of the Development Rights and Special Declarant Rights pursuant to Article V of the Declaration of Shops at Sebago Condominium, dated August 17, 2009, and recorded in the Cumberland County Registry of Deeds in Book 27188, Page 30 (the "Declaration"), pursuant to a Short-Form Quitclaim with Covenant Deed from Britewater Realty I, LLC ("Britewater") dated June 21, 2010, and recorded in said Registry of Deeds in Book 27861, Page 20. Grantor exercised those Development Rights by First Amendment to Declaration of Shops at Sebago Condominium dated June 20, 2014, and recorded in said Registry in Book 31586, Page 184, to remove a portion of the land described on Exhibit A attached hereto from the condominium.

This Release is given in satisfaction of the obligation of Grantor, as successor in interest to Britewater, to Grantee pursuant to that certain Boundary Line Adjustment Agreement dated August 17, 2009, and recorded in said Registry in Book 27188, Page 135.

This deed is given with quitclaim covenant with respect to the portion of the land described on Exhibit A attached hereto that also is described in a certain Quitclaim with Covenant Deed from Grantee to Britewater dated August 13, 2009, and recorded in said Registry in Book 27188, Page 58.

IN WITNESS WHEREOF, Timm Realty LLC has caused this instrument to be executed by Douglas Timm, its Manager thereunto duly authorized on this day of August, 2014.

By:

WITNESS:

TIMM REALTY LLC

Name:

Its duly authorized Manager

STATE OF MAINE COUNTY OF CUMBERLAND

August <u>5</u>, 2014

Personally appeared before me the above-named Douglas Timm, Manager of Timm Realty LLC as aforesaid, and acknowledged the foregoing instrument to be his free act and deed in said capacity and the free act and deed of said company.

Notary Public/Attorney at Law

Print Name: _____

Exhibit A

All of that land located at or near Turning Leaf Drive in the Town of Windham, Cumberland County, Maine being located on Lot 12 as shown on a certain 3rd Amended Subdivision Plan of the Rich Family Limited Partnership Property prepared by Sebago Technics and October 1, 2013, recorded in said Registry of Deeds in Plan Book 213, Page 455, and being generally located southeasterly of a certain boundary line crossing the Turning Leaf Drive cul-de-sac with the following courses and distances, as shown on said Amended Subdivision Plan: N 40° 47' 38" E a distance of 60.82 feet; N 40° 47' 38" E a distance of 15.27 feet.

Received Recorded Resister of Deeds Aus 20:2014 08:16:20A Cumberland Counts Pamela E. Lovles

WARRANTY DEED Maine Statutory Short Form

KNOW ALL MEN BY THESE PRESENTS, That The Rich Family Limited Partnership, a Florida Limited Partnership with a mailing address of 248 NE Edgewater Drive, Stuart, FL 34996 (hereinafter "Grantor"), for consideration paid, grants to Gateway Development, LLC, a limited liability company duly organized and existing under the laws of the State of Maine, with a mailing address of 4 Commons Avenue, Suite 11, Windham, ME 04062, (hereinafter "Grantee"), with WARRANTY COVENANTS, the land in the Town of Windham, County of Cumberland, and State of Maine, described as follows:

See attached Exhibit A.

Meaning and intending to convey and hereby conveying a portion of the property acquired by the Grantor herein by deed of Evergreen Credit Union dated June 3, 2002, and recorded in the Cumberland County Registry of Deeds in Book 17693, Page 095.

WITNESS my hand and seal this 14 day of the month of March, 2006.

SIGNED, SEALED AND DELIVERED in the presence of:

RICH FAMILY LIMITED PARTNERSHIP By: RICH FAMILY HOLDINGS, INC., its sole General Partner

 $\mathbf{B}\mathbf{y}$

Donald Rich, its President

State of Mark)	
)	SS.
Combald County)	

3/7 ,2006

Then personally appeared the above-named Donald Rich, President of Rich Family Holdings, Inc., the General Partner of Rich Family Limited Partnership and acknowledged the foregoing instrument to be its free act and deed.

Before me,

Notary Public Ally

Print Name

Exhibit A

Beginning at a iron located on the Northerly sideline of land now or formerly owned by Timmons as described in deed recorded at the Cumberland County Registry of Deeds in book 14966, page 257. Said iron marking the southeast corner of land now or formerly owned by 430 Western Avenue LLC as described in the deed recorded in said Registry in book 19073, page 15;

Thence North 02°-51′-38" east along the land now or formerly owned by 430 Western Avenue LLC and land now or formerly owned by Kennerson Realty Associates LLC as described in the deed recorded in book 12490, page 129 in said Registry, 620.12 feet to a iron at land now or formerly owned by Britewater Realty I, LLC as described in the deed recorded in book 21492, page 97 of said Registry;

Thence North 40°-45′-45" East along land now or formerly owned by Britewater Realty I, LLC, 221.80 feet to a no. 5 rebar at land now or formerly owned by Taylor as described in the deed recorded in book 2048, page 325 in said Registry;

Thence South 38°-24′-13" East along land now or formerly owned by Taylor 46.59 feet to a 20" Pine tree;

Thence South 38°-04′-25" East continuing along land now or formerly owned by Taylor, 468.48 feet to a 20" Oak tree;

Thence South 36°-22′-40" East continuing along land now or formerly owned by Taylor, 498.42 feet to a 12" Oak tree;

Thence South 34°-35′-37" East continuing along land now or formerly owned by Taylor, 119.00 feet to a no. 5 rebar at Ditch Brook;

Thence in a generally southerly direction along Ditch Brook, 370 feet more or less to a iron at land now or formerly owned by Lake Region Commons Green Area as recorded in Plan Book 180, page 42, at the Cumberland County Registry of Deeds, said water course having a tie-line bearing of South 35°-54′-48" West from the previously described no. 5 rebar, 357.67 feet to said iron;

Thence North 77°-59′-59″ West along land now or formerly owned by the Lake Region Commons Green Area, 370.15 feet to a iron at land now or formerly owned by Timmons as previously described;

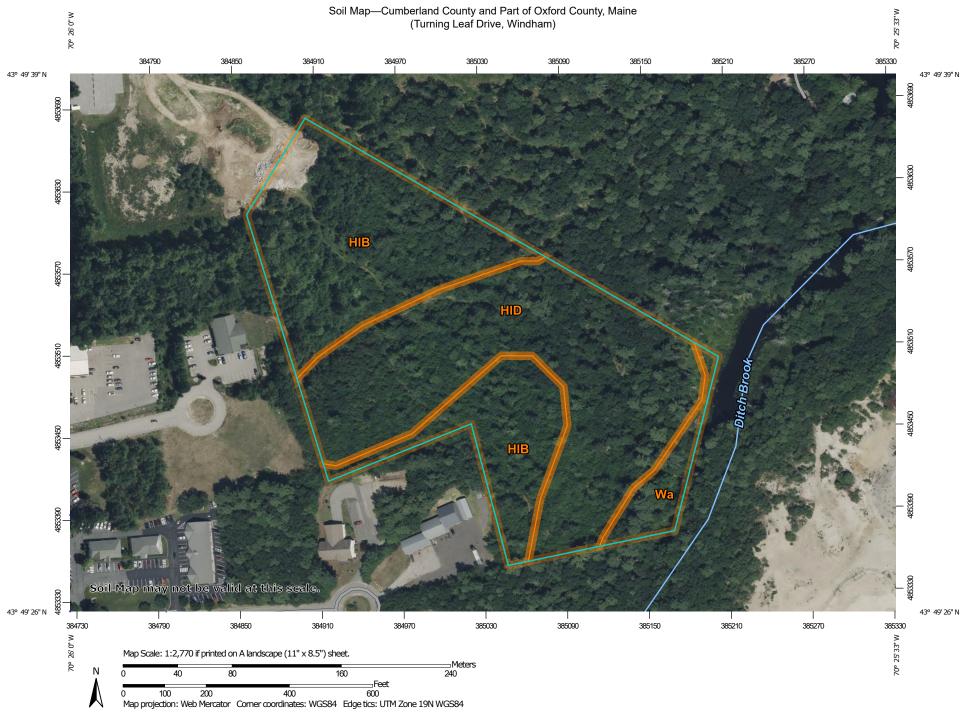
Thence North 11°-56′-05" East along land of Timmons, 300.00 feet to an iron;

Thence North 84°-00′-30" West continuing along land now or formerly owned by Timmons, 348.87 feet to the point of beginning.

Said parcel contains 12.05 acres more or less. Bearings are magnetic of the year 1978.

Parcel being a portion of land previously described in deed book 17693, page 95 Cumberland County Registry of Deeds. Said parcel is subject to easement(s) and/or right(s)-of-way of record, without limitation, certain rights described in deed book 21433, page 312 Cumberland County Registry of Deeds.

Received
Recorded Register of Deeds
Sep 25:2006 02:30:21P
Cumberland County
John & Obrien



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow

Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water
Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot

Spoil Area



Stony Spot



Very Stony Spot



Wet Spot Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24.000.

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: Cumberland County and Part of Oxford County, Maine

Survey Area Data: Version 19, Aug 30, 2022

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Jul 22, 2021—Oct 7, 2021

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
HIB	Hinckley loamy sand, 3 to 8 percent slopes	6.9	45.2%
HID	Hinckley loamy sand, 15 to 25 percent slopes	7.5	49.7%
Wa	Walpole fine sandy loam	0.8	5.1%
Totals for Area of Interest		15.2	100.0%

Cumberland County and Part of Oxford County, Maine

HIB—Hinckley loamy sand, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2svm8

Elevation: 0 to 1,430 feet

Mean annual precipitation: 36 to 53 inches Mean annual air temperature: 39 to 55 degrees F

Frost-free period: 140 to 240 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Hinckley and similar soils: 85 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Hinckley

Setting

Landform: Outwash plains, eskers, moraines, kame terraces,

kames, outwash terraces, outwash deltas

Landform position (two-dimensional): Summit, shoulder, backslope,

footslope

Landform position (three-dimensional): Nose slope, side slope,

base slope, crest, riser, tread

Down-slope shape: Concave, convex, linear Across-slope shape: Convex, linear, concave

Parent material: Sandy and gravelly glaciofluvial deposits derived

from gneiss and/or granite and/or schist

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material

A - 1 to 8 inches: loamy sand

Bw1 - 8 to 11 inches: gravelly loamy sand Bw2 - 11 to 16 inches: gravelly loamy sand BC - 16 to 19 inches: very gravelly loamy sand

C - 19 to 65 inches: very gravelly sand

Properties and qualities

Slope: 3 to 8 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to very high (1.42 to 99.90 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)

Available water supply, 0 to 60 inches: Very low (about 3.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 3s

Hydrologic Soil Group: A

Ecological site: F144AY022MA - Dry Outwash

Hydric soil rating: No

Data Source Information

Soil Survey Area: Cumberland County and Part of Oxford County, Maine

Survey Area Data: Version 19, Aug 30, 2022

Cumberland County and Part of Oxford County, Maine

HID—Hinckley loamy sand, 15 to 25 percent slopes

Map Unit Setting

National map unit symbol: 2svmc

Elevation: 0 to 1,460 feet

Mean annual precipitation: 36 to 71 inches Mean annual air temperature: 39 to 55 degrees F

Frost-free period: 140 to 240 days

Farmland classification: Not prime farmland

Map Unit Composition

Hinckley and similar soils: 85 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Hinckley

Setting

Landform: Outwash plains, eskers, moraines, outwash terraces,

outwash deltas, kame terraces, kames

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Head slope, nose slope,

side slope, crest, riser

Down-slope shape: Concave, convex, linear Across-slope shape: Convex, linear, concave

Parent material: Sandy and gravelly glaciofluvial deposits derived

from gneiss and/or granite and/or schist

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material

A - 1 to 8 inches: loamy sand

Bw1 - 8 to 11 inches: gravelly loamy sand Bw2 - 11 to 16 inches: gravelly loamy sand BC - 16 to 19 inches: very gravelly loamy sand

C - 19 to 65 inches: very gravelly sand

Properties and qualities

Slope: 15 to 25 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to very high (1.42 to 99.90 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: A

Ecological site: F144AY022MA - Dry Outwash

Hydric soil rating: No

Data Source Information

Soil Survey Area: Cumberland County and Part of Oxford County, Maine

Survey Area Data: Version 19, Aug 30, 2022

Cumberland County and Part of Oxford County, Maine

Wa—Walpole fine sandy loam

Map Unit Setting

National map unit symbol: blk7

Elevation: 0 to 540 feet

Mean annual precipitation: 48 to 49 inches Mean annual air temperature: 45 to 46 degrees F

Frost-free period: 145 to 165 days

Farmland classification: Not prime farmland

Map Unit Composition

Walpole and similar soils: 85 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Walpole

Setting

Landform: Outwash plains

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy glaciofluvial deposits

Typical profile

H1 - 0 to 8 inches: fine sandy loam
H2 - 8 to 20 inches: fine sandy loam
H3 - 20 to 65 inches: gravelly loamy sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained

Capacity of the most limiting layer to transmit water (Ksat): High

(2.00 to 6.00 in/hr)

Depth to water table: About 0 to 18 inches

Frequency of flooding: None Frequency of ponding: None

Available water supply, 0 to 60 inches: Low (about 5.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4w

Hydrologic Soil Group: A/D

Ecological site: F144BY303ME - Acidic Swamp

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Cumberland County and Part of Oxford County, Maine

Survey Area Data: Version 19, Aug 30, 2022