CITY OF DOVER

DOVER CONSERVATION COMMISSION – AGENDA

Meeting Type:	Regular Meeting
Meeting Location:	City Council Conference Room - 288 Central Avenue Dover NH
Meeting Date:	Monday, May 9, 2022
Meeting Time:	**5:30 pm**

1. **CALL TO ORDER AND ROLL CALL**
2. **CITIZENS' FORUM**
3. **APPROVAL OF THE PRIOR MEETING MINUTES** – April 11, 2022
4. **OLD BUSINESS**
5. **NEW BUSINESS**
   - **A.** NHDES Standard Dredge and Fill Wetlands Permit Application for Todd Diggins & Krystin Ward. (Agent: Jones & Beach Engineers, Inc.) Assessor's Map 8 Lot 32, zoned R-20, located at 3 Wentworth Terrace. Proposal is to construct a 957 square foot addition creating 3,045 square feet of permanent impact and 1,880 square feet of temporary impacts to the previously developed Tidal Buffer Zone.
   - **B.** NHDES Expedited Minimum Impact Wetlands Permit Application and City of Dover Conditional Use Permit for Westfield, LLC. (Agent: Civil Works New England), Assessor's Map G, Lot 2, zoned R-20, located on Littleworth Road. Proposal is to subdivide a 58.91 acre parcel into 3 lots with associated site work for public roadways, grading, stormwater mitigation and utilities, creating 1,231 square feet of wetlands impact and 30,073 square feet of buffer impacts within the Wetland Protection District.
   - **C.** Appointment of Wetland Mitigation Priority List Subcommittee.
6. **REPORT FROM THE CHAIR**
   - **A.** Review of Correspondence Received From NH Department of Environmental Services
7. **OTHER BUSINESS**
   - **A.** Update From Committee on Amendments to Wetland Protection District Ordinance
8. **ADJOURNMENT**

CITY OF DOVER

DOVER CONSERVATION COMMISSION – MINUTES

Meeting Type:	Regular Meeting
Meeting Location:	City Council Conference Room - 288 Central Avenue Dover NH
Meeting Date:	Monday, April 11, 2022
Meeting Time:	**5:30 pm**

MEMBERS PRESENT: Bill Hunt (Chair), Steve Fellows (Vice Chair), Abigail Lyon**,** Jason Aube, Amy Kramer-Perry, Kristen Murphy (Alternate) Bruce Batchelder (Alternate)
Absent (Excused): Robert Atwood (Secretary), Richard Erickson
Absent (Un-excused):
STAFF PRESENT: Jackson Kaspari – Resilience Coordinator
OTHERS PRESENT: Robert (Bob) Stowell, Bob Schumirick, Stephen Herzog, Luke Hurley, John Clagnon, Michael & Sandra McDonough.

DRAFT

1. CALL TO ORDER AND ROLL CALL

The meeting was convened at 5:30 PM.
Hunt opened the meeting and did a roll call.

2. CITIZENS' FORUM

None.

3. APPROVAL OF THE PRIOR MEETING MINUTES – March 14, 2022

S. Fellows moved to approve the March 14, 2022 minutes, A. Lyon seconded. Vote: 4 yes, 3 abstentions.

4. OLD BUSINESS

5. NEW BUSINESS

A. NHDES Standard Dredge and Fill Wetlands Permit Application for Quantum Real Estate Group, LLC. (Agent: Tritech Engineering Corporation) Assessor's Map H Lot 29A-3, 29A-4, and 29A-5 right of way, zoned CM, located on Littleworth Road. Proposal is to install a municipal water main creating 785 square feet of temporary wetlands impact.

Bob Stowell introduced the project. The NHDES dredge and fill permit application was not prepared in time for the last meeting. This is the same project as previously presented.

S. Fellows: So nothing has changed with the plans?

B. Stowell: No, it is exactly the same.

S. Fellows motioned to endorse. J. Aube seconded. Vote: U/A.

B. NHDES Standard Dredge and Fill Wetlands Permit Application for Unitil Granite State Gas Transmission (Agent: Wood Environment & Infrastructure Solutions, Inc.) Assessor's Map M, Lot 47C, zoned R-12, located east of Polly Ann Park. Proposal is to construct an above ground station comprising of a pipeline internal inspection tool launcher and receiver, creating approximately 3,500 square feet of permanent wetlands impact.

B. Schumirick gave a power point presentation regarding the launcher and receiver station.

S. Herzog explained the location with respect to the wetlands and reasons for the placement of the launcher and receiver.

S. Fellows: So it seem the reason for this placement is due to the junction between the North and South changes in the pipeline size? Ideally would not want to be in the wetlands but for safety reasons I can understand the necessity.

S. Herzog: We will be paying a fee to DES for mitigation and had two pre-application meetings.

K. Murphy: Could there be some onsite mitigation to deal with the phragmites?

J. Aube: That may cause more harm then good by further impacting wetlands.

B. Hunt: Is the line coming from the South 10 inches?

B. Schumirick: Next year it will all be 10 inches.

B. Hunt: From an engineering point would it be possible to put the station on piers with concrete footings?

S. Herzog: The launcher/receiver has to be at a level that can be easily accessed by the workers.

J. Aube motioned to endorse the project. S. Fellows seconded. Vote: U/A.

DRAFT

C. NHDES Standard Dredge and Fill Wetlands Permit Application for Bluebird Self-storage (Agent: Gove Environmental Services, Inc.) Assessor's Map G, Lot 2, zoned CM, located at 64 Littleworth Road. Proposal is to construct a self-storage building with associated parking spaces, stormwater treatment and access driveway, creating 2,988 square feet of permanent wetlands impact and 225 square feet of temporary wetlands impact.

Luke Hurley was present to explain the application.

L. Hurley explained the location of the two wetland impact sites.

J. Aube: Can you speak to the functions and values of the wetlands?

L. Hurley: Some conveyance but the flow is limited. The farm ditches do remove some water from the site. Overall does not score high in terms of functions and values.

S. Fellows: Can you speak to the stormwater system?

L. Hurley described the retention pond. The water table is three to four feet down. This acts as a level spreader.

B. Hunt: What type of pavement is going to be used?

L. Hurley: Standard.

B. Hunt: Is the storage to be located all inside?

L. Hurley: Yes.

A. Lyon: Are there plans for plantings?

L. Hurley: There will be plantings where it makes sense in between paved areas and the structures.

K. Murphy: Noticed that the application had a couple components related to the Heritage Bureau.

L. Hurley: The NHB signed off.

B. Hunt: What is the elevation drop in the back?

L. Hurley: 3:1 slope.

K. Murphy motioned to endorse. J Aube seconded. Vote: U/A.

K. Murphy exited at 6:15 pm.

DRAFT

D. City of Dover Conditional Use Permit for Michael C. & Sandra J. McDonough (Agent: Ambit Engineering, Inc.), Assessor's Map 7, Lot 13A, zoned R-20, located at 29 Boston Harbor Road. Proposal is to re-develop the site including replacement of the existing residential structure, re-configuration use of pervious technology for the proposed driveway, grading and associated landscape improvements within the Conservation District and Wetlands Protection District.

E. NHDES Standard Dredge and Fill Wetlands Permit Application for Michael C. & Sandra J. McDonough (Agent: Ambit Engineering, Inc.), Assessor's Map 7, Lot 13A, zoned R-20, located at 29 Boston Harbor Road. Proposal is to re-develop the site including replacement of the existing residential structure, re-configuration use of pervious technology for the proposed driveway, grading, utility connections and associated landscape improvements, creating 2,267 square feet of permanent impact and 1,064 square feet of temporary impact to the previously developed Tidal Buffer Zone.

The Commission agreed to hear items D and E together.

John Clagnon was present to explain the proposal. Overall there is a reduction in impervious surface area on site.

J. Aube: What is the decrease to impervious?

J. Clagnon: The decrease is around 30%.

A. Lyon: Porous pavers are great but only work well if maintained appropriately. Is there are porous pavers management plan?

M. McDonough: Porous pavers should need less than porous pavement but will make sure they are maintained.

J. Aube: How is the stormwater being dealt with?

J. Clagnon: The porous pavers will allow for integration.

A. Lyon: What is the elevation from the edge of the property to the water line?

J. Clagnon: There is about a 6-foot grade change at the shore.

S. Fellows: Can you speak to the vegetation?

J. Clagnon: There will be some trimming but no changes otherwise.

A. Lyon: Could the structure be moved closer to the road?

J. Clagnon: The presence of a sewer easement prevents us from doing that.

DRAFT

J. Aube motioned to endorse the applications citing the reduction in impervious surface area. A. Kramer-Perry seconded. Vote: U/A.

F. Authorization vote for Chair to sign Critical Flood Risk Infrastructure Grant letters of support. Gretchen Young, Environmental Projects Manager, was present to explain the project applications.

There are six letters for Community Services related proposals and one for the Waterfront Development produced by Steve Bird.

A. Lyon motioned to authorize the Chair to sign the Waterfront Proposal letter. S. Fellows seconded. Vote: U/A.

A. Kramer-Perry motioned to authorize the Chair to sign the stormwater utility letter. J. Aube. seconded. Vote: U/A.

B. Batchelder motioned to authorize the Chair to sign the man-made wetland letter. A. Lyon. seconded. Vote: U/A.

A. Lyon motioned to authorize the Chair to sign the BMP nitrogen reduction letter. B. Batchelder seconded. Vote: U/A.

J. Aube exited the meeting at 7:00 pm.

S. Fellows motioned to authorize the Chair to sign the group purchase of a high-quality street sweeper letter. A. Kramer-Perry. seconded. Vote: U/A.

S. Fellows motioned to authorize the Chair to sign the Blackwater Bridge rebuild letter. A. Kramer-Perry seconded. Vote: U/A.

A. Kramer-Perry motioned to authorize the Chair to sign the Reyeners Brook Culvert letter. B. Batchelder seconded. Vote: U/A.

G. Vote to use a maximum of $10,000 from Conservation Fund for an updated survey of River Run Wildlife Management Area.

J. Kaspari: There is a longstanding dispute with the abutting owners of a parcel connected to conservation land known as River Run Wildlife Management Area. The parcel is owned by the City and monitored by LCHIP. LCHIP has requested an updated survey to solved the dispute. The survey shouldn't cost $10,000 but asking for that amount to make sure another authorization wouldn't be needed. The final amount is expected to be between $5,000 and $10,000.

DRAFT

S. Fellows motioned to authorize using up o $10,000 in Conservation Funds for the survey. A. Lyon seconded. Vote: U/A.

H. Appointment of Wetland Mitigation Priority List Subcommittee.

J. Kaspari: There is a need to develop a mitigation priority this. We have seen a number of requests for this over the last few months. Community Services has some priorities that could be incorporated. Given the low number of members present tonight it might be best to hold off on appointing the sub-committee:

A. Lyon: Will you reach out to gauge interest from members and also share the link the climate resources page?

J. Kaspari: Yes, I'll do so.

The item was tabled to the May meeting.

6. REPORT FROM THE CHAIR

A. Review of Correspondence Received From NH Department of Environmental Services

7. OTHER BUSINESS

A. Update From Committee on Amendments to Wetland Protection District Ordinance

J. Kaspari: There was some concerns from City Staff regarding oversight and public service related to the amendments. The Planning and Community Development Director, Donna Benton is working on providing feedback to what is likely achievable in the near term.

A. Lyon provided a debrief of the climate resources forum and encouraged members to check out the Resilient Dover webpage and the factsheets and videos that were created as part of the Climate Forum planning process.

8. ADJOURNMENT

Motion: A. Lyon. moved to adjourn the meeting at 7:28 PM. S. Fellows seconded. Vote: U/A.

DRAFT

JONES&BEACH
ENGINEERS INC.
85 Portsmouth Avenue, PO Box 219, Stratham, NH 03885
603.772.4746 - JonesandBeach.com

RECEIVED
Planning Office
APR 05 2022
Dover, New Hampshire

NHDES STANDARD DREDGE & FILL WETLANDS APPLICATION

FOR

Todd Diggins & Krystin Ward
3 Wentworth Terrace
Dover, NH

PREPARED BY:

JONES & BEACH ENGINEERS, INC.
85 PORTSMOUTH AVENUE
PO BOX 219
STRATHAM, NH 03885
(603) 772-4746
MARCH 5, 2022
JBE PROJECT NO. 21069

TABLE OF CONTENTS

Project Description & Need, Minimization & Avoidance Letter

NHDES Dredge & Fill Wetlands Permit Application

NHDES Avoidance and Minimization Checklist

NHDES Protected Tidal Zone Project-Specific Worksheet

NHDES Supplemental Narrative

Construction Sequence

Letter of Authorization

Copy of the Check

N.H. Natural Heritage Bureau Review

New Hampshire Natural Heritage Inventory

Designated River Map

USGS Quad Sheet

Project Photographs

Tax Maps

Abutter Notice, List, and Certified Receipts

Impacts Checklist with the following attachments:

- GIS Impaired Waters Map
- Highest Ranked Wildlife Habitat By Ecological Condition Maps

U.S. Army Corps of Engineers - NH PGP Appendix B

Plans

- Existing Conditions, C1
- Proposed Site Plan, C2

JONES & BEACH
ENGINEERS INC.
85 Portsmouth Avenue, PO Box 219, Stratham, NH 03885
603.772.4746 - JonesandBeach.com

March 4, 2022

N.H. Department of Environmental Services
Wetlands Bureau
29 Hazen Drive, P.O. Box 95
Concord, N.H. 03302-0095

Re: Standard Dredge & Fill Wetlands Permit Application
3 Wentworth Terrace, Dover, NH
Tax Map 8, Lot 32
JBE Project No. 17143

Dear Mr. Price,

On behalf of our client and property owner, Todd Diggins and Krystin Ward, we are submitting a Standard Dredge & Fill Wetlands Permit Application to construct an addition to an existing home located within the previously developed tidal buffer zone associated with the Piscataqua River. The intent of this project is to construct an addition totaling 957 sq.ft. Proposed construction includes the removal of the existing paved driveway and impervious patio and the replacement with porous paver. The home addition, patio, and a portion of the reconstruction of the driveway are located within the 100' tidal buffer zone associated with the Piscataqua River.

This project is required due to the age and condition of the existing house and the need to add an accessory dwelling unit. The proposed impacts are the least adverse impacts as the addition to the home and driveway are located within previously developed areas of the site. In addition, the proposed house and driveway have been designed to limited the proposed impervious within the 100' tidal buffer zone to greater than the existing conditions.

Please feel free to contact me by email at bgier@jonesandbeach.com with any questions or comments during your review.

Very truly yours,
JONES & BEACH ENGINEERS, INC.

Barry W. Gier, PE
Vice-President

cc: Todd Diggins (Application package sent via email)
City of Dover (Application package dropped off)

STANDARD DREDGE AND FILL WETLANDS PERMIT APPLICATION

Water Division/Land Resources Management

Wetlands Bureau

Check the Status of your Application

RSA/Rule: RSA 482-A/Env-Wt 100-900

APPLICANT'S NAME: Todd Diggins & Krystin Ward **TOWN NAME:** Dover

Administrative Use Only	Administrative Use Only	Administrative Use Only	File No.:
			Check No.:
			Amount:
			Initials:

A person may request a waiver of the requirements in Rules Env-Wt 100-900 to accommodate situations where strict adherence to the requirements would not be in the best interest of the public or the environment but is still in compliance with RSA 482-A. A person may also request a waiver of the standards for existing dwellings over water pursuant to RSA 482-A:26, III(b). For more information, please consult the Waiver Request Form.

SECTION 1 - REQUIRED PLANNING FOR ALL PROJECTS (Env-Wt 306.05; RSA 482-A:3, I(d)(2)) Please use the Wetland Permit Planning Tool (WPPT), the Natural Heritage Bureau (NHB) DataCheck Tool, the Aquatic Restoration Mapper, or other sources to assist in identifying key features such as: priority resource areas (PRAs), protected species or habitats, coastal areas, designated rivers, or designated prime wetlands.	
Has the required planning been completed?	☒ Yes ☐ No
Does the property contain a PRA? If yes, provide the following information:	☐ Yes ☒ No
• Does the project qualify for an Impact Classification Adjustment (e.g. NH Fish and Game Department (NHF&G) and NHB agreement for a classification downgrade) or a Project-Type Exception (e.g. Maintenance or Statutory Permit-by-Notification (SPN) project)? See Env-Wt 407.02 and Env-Wt 407.04.	☐ Yes ☐ No
• Protected species or habitat? o If yes, species or habitat name(s): o NHB Project ID #: NHB22-0315	☐ Yes ☒ No
• Bog?	☐ Yes ☒ No
• Floodplain wetland contiguous to a tier 3 or higher watercourse?	☒ Yes ☐ No
• Designated prime wetland or duly-established 100-foot buffer?	☐ Yes ☒ No
• Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone?	☐ Yes ☒ No
Is the property within a Designated River corridor? If yes, provide the following information: • Name of Local River Management Advisory Committee (LAC): • A copy of the application was sent to the LAC on Month: Day: Year:	☐ Yes ☒ No

For dredging projects, is the subject property contaminated? • If yes, list contaminant:	☐ Yes ☐ No
Is there potential to impact impaired waters, class A waters, or outstanding resource waters?	☐ Yes ☐ No
For stream crossing projects, provide watershed size (see WPPT or Stream Stats):	

SECTION 2 - PROJECT DESCRIPTION (Env-Wt 311.04(i))

Provide a **brief** description of the project and the purpose of the project, outlining the scope of work to be performed and whether impacts are temporary or permanent. DO NOT reply "See attached"; please use the space provided below.

Addition to an existing home within the previously developed tidal buffer zone.

SECTION 3 - PROJECT LOCATION

Separate wetland permit applications must be submitted for each municipality within which wetland impacts occur.

ADDRESS: 3 Wentworth Terrace

TOWN/CITY: Dover

TAX MAP/BLOCK/LOT/UNIT: 8 / 32

US GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME: Piscataqua River
☐ N/A

(Optional) LATITUDE/LONGITUDE in decimal degrees (to five decimal places): ° North
° West

SECTION 4 - APPLICANT (DESIRED PERMIT HOLDER) INFORMATION (Env-Wt 311.04(a)) If the applicant is a trust or a company, then complete with the trust or company information.		
NAME: Todd Diggins & Krystin Ward		
MAILING ADDRESS: 3 Wentworth Terrace		
TOWN/CITY: Dover	STATE: NH	ZIP CODE: 03820
EMAIL ADDRESS:		
FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here: BWG, I hereby authorize NHDES to communicate all matters relative to this application electronically.		
SECTION 5 - AUTHORIZED AGENT INFORMATION (Env-Wt 311.04(c)) ☐ N/A		
LAST NAME, FIRST NAME, M.I.: Gier, Barry W		
COMPANY NAME: Jones & Beach Engineers, Inc.		
MAILING ADDRESS: PO Box 219		
TOWN/CITY: Stratham	STATE: NH	ZIP CODE: 03885
EMAIL ADDRESS: bgier@jonesandbeach.com		
FAX:	PHONE: 603-772-4746	
ELECTRONIC COMMUNICATION: By initialing here BWG, I hereby authorize NHDES to communicate all matters relative to this application electronically.		
SECTION 6 - PROPERTY OWNER INFORMATION (IF DIFFERENT THAN APPLICANT) (Env-Wt 311.04(b)) If the owner is a trust or a company, then complete with the trust or company information. ☒ Same as applicant		
NAME:		
MAILING ADDRESS:		
TOWN/CITY:	STATE:	ZIP CODE:
EMAIL ADDRESS:		
FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here , I hereby authorize NHDES to communicate all matters relative to this application electronically.		

SECTION 7 - RESOURCE-SPECIFIC CRITERIA ESTABLISHED IN Env-Wt 400, Env-Wt 500, Env-Wt 600, Env-Wt 700, OR Env-Wt 900 HAVE BEEN MET (Env-Wt 313.01(a)(3))

Describe how the resource-specific criteria have been met for each chapter listed above (please attach information about stream crossings, coastal resources, prime wetlands, or non-tidal wetlands and surface waters):
See protected tidal zone worksheet, NHDES -W-03-076, included.

SECTION 8 - AVOIDANCE AND MINIMIZATION

Impacts within wetland jurisdiction must be avoided to the maximum extent practicable (Env-Wt 313.03(a)).* Any project with unavoidable jurisdictional impacts must then be minimized as described in the Wetlands Best Management Practice Techniques For Avoidance and Minimization and the Wetlands Permitting: Avoidance, Minimization and Mitigation Fact Sheet. For minor or major projects, a functional assessment of all wetlands on the project site is required (Env-Wt 311.03(b)(10)).*

Please refer to the application checklist to ensure you have attached all documents related to avoidance and minimization, as well as functional assessment (where applicable). Use the Avoidance and Minimization Checklist, the Avoidance and Minimization Narrative, or your own avoidance and minimization narrative.

**See Env-Wt 311.03(b)(6) and Env-Wt 311.03(b)(10) for shoreline structure exemptions.*

SECTION 9 - MITIGATION REQUIREMENT (Env-Wt 311.02)

If unavoidable jurisdictional impacts require mitigation, a mitigation pre-application meeting must occur at least 30 days but not more than 90 days prior to submitting this Standard Dredge and Fill Permit Application.

Mitigation Pre-Application Meeting Date: Month: Day: Year:

(☒ N/A - Mitigation is not required)

SECTION 10 - THE PROJECT MEETS COMPENSATORY MITIGATION REQUIREMENTS (Env-Wt 313.01(a)(1)c)

Confirm that you have submitted a compensatory mitigation proposal that meets the requirements of Env-Wt 800 for all permanent unavoidable impacts that will remain after avoidance and minimization techniques have been exercised to the maximum extent practicable: ☐ I confirm submittal.

(☒ N/A – Compensatory mitigation is not required)

SECTION 11 - IMPACT AREA (Env-Wt 311.04(g))

For each jurisdictional area that will be/has been impacted, provide square feet (SF) and, if applicable, linear feet (LF) of impact, and note whether the impact is after-the-fact (ATF; i.e., work was started or completed without a permit).

For intermittent and ephemeral streams, the linear footage of impact is measured along the thread of the channel. *Please note, installation of a stream crossing in an ephemeral stream may be undertaken without a permit per Rule Env-Wt 309.02(d), however other dredge or fill impacts should be included below.*

For perennial streams/rivers, the linear footage of impact is calculated by summing the lengths of disturbances to the channel and banks.

Permanent impacts are impacts that will remain after the project is complete (e.g., changes in grade or surface materials).

Temporary impacts are impacts not intended to remain (and will be restored to pre-construction conditions) after the project is completed.

JURISDICTIONAL AREA		PERMANENT			TEMPORARY		
		SF	LF	ATF	SF	LF	ATF
Wetlands	Forested Wetland			☐			☐
	Scrub-shrub Wetland			☐			☐
	Emergent Wetland			☐			☐
	Wet Meadow			☐			☐
	Vernal Pool			☐			☐
	Designated Prime Wetland			☐			☐
	Duly-established 100-foot Prime Wetland Buffer			☐			☐
Surface Water	Intermittent / Ephemeral Stream			☐			☐
	Perennial Stream or River			☐			☐
	Lake / Pond			☐			☐
	Docking - Lake / Pond			☐			☐
	Docking - River			☐			☐
Banks	Bank - Intermittent Stream			☐			☐
	Bank - Perennial Stream / River			☐			☐
	Bank / Shoreline - Lake / Pond			☐			☐
Tidal	Tidal Waters			☐			☐
	Tidal Marsh			☐			☐
	Sand Dune			☐			☐
	Undeveloped Tidal Buffer Zone (TBZ)			☐			☐
	Previously-developed TBZ	3045		☐	1880		☐
	Docking - Tidal Water			☐			☐
TOTAL		3045			1880		

SECTION 12 - APPLICATION FEE (RSA 482-A:3, I)

☐ **MINIMUM IMPACT FEE:** Flat fee of $400.

☐ **NON-ENFORCEMENT RELATED, PUBLICLY-FUNDED AND SUPERVISED RESTORATION PROJECTS, REGARDLESS OF IMPACT CLASSIFICATION:** Flat fee of $400 (refer to RSA 482-A:3, 1(c) for restrictions).

☐ **MINOR OR MAJOR IMPACT FEE:** Calculate using the table below:

Permanent and temporary (non-docking):	4,925 SF	× $0.40 =	$ 1,970
Seasonal docking structure:	SF	× $2.00 =	$
Permanent docking structure:	SF	× $4.00 =	$
Projects proposing shoreline structures (including docks) add $400 =			$
		Total =	$ 1,970
The application fee for minor or major impact is the above calculated total or $400, whichever is greater =			$

SECTION 13 - PROJECT CLASSIFICATION (Env-Wt 306.05) Indicate the project classification.		
☒ Minimum Impact Project	☐ Minor Project	☐ Major Project

SECTION 14 - REQUIRED CERTIFICATIONS (Env-Wt 311.11)	
Initial each box below to certify:	
Initials: BWC	To the best of the signer's knowledge and belief, all required notifications have been provided.
Initials: BWC	The information submitted on or with the application is true, complete, and not misleading to the best of the signer's knowledge and belief.
Initials: BWC	The signer understands that: • The submission of false, incomplete, or misleading information constitutes grounds for NHDES to: 1. Deny the application. 2. Revoke any approval that is granted based on the information. 3. If the signer is a certified wetland scientist, licensed surveyor, or professional engineer licensed to practice in New Hampshire, refer the matter to the joint board of licensure and certification established by RSA 310-A:1. • The signer is subject to the penalties specified in New Hampshire law for falsification in official matters, currently RSA 641. • The signature shall constitute authorization for the municipal conservation commission and the Department to inspect the site of the proposed project, except for minimum impact forestry SPN projects and minimum impact trail projects, where the signature shall authorize only the Department to inspect the site pursuant to RSA 482-A:6, II.
Initials: BWC	If the applicant is not the owner of the property, each property owner signature shall constitute certification by the signer that he or she is aware of the application being filed and does not object to the filing.

SECTION 15 - REQUIRED SIGNATURES (Env-Wt 311.04(d); Env-Wt 311.11)		
SIGNATURE (OWNER):	PRINT NAME LEGIBLY:	DATE:
SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER):	PRINT NAME LEGIBLY:	DATE:
SIGNATURE (AGENT, IF APPLICABLE): Brian W. Cain	PRINT NAME LEGIBLY: Brian W. Cain	DATE: 3/4/22

SECTION 16 - TOWN / CITY CLERK SIGNATURE (Env-Wt 311.04(f))	
As required by RSA 482-A:3, I(a)(1), I hereby certify that the applicant has filed four application forms, four detailed plans, and four USGS location maps with the town/city indicated below.	
TOWN/CITY CLERK SIGNATURE: Susan Mistretta	PRINT NAME LEGIBLY: Susan Mistretta
TOWN/CITY: Dover	DATE: 4/5/2022

DIRECTIONS FOR TOWN/CITY CLERK:
Per RSA 482-A:3, I(a)(1)

1. IMMEDIATELY sign the original application form and four copies in the signature space provided above.
2. Return the signed original application form and attachments to the applicant so that the applicant may submit the application form and attachments to NHDES by mail or hand delivery.
3. IMMEDIATELY distribute a copy of the application with one complete set of attachments to each of the following bodies: the municipal Conservation Commission, the local governing body (Board of Selectmen or Town/City Council), and the Planning Board.
4. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

DIRECTIONS FOR APPLICANT:
Submit the original permit application form bearing the signature of the Town/City Clerk, additional materials, and the application fee to NHDES by mail or hand delivery at the address at the bottom of this page. Make check or money order payable to "Treasurer – State of NH".

Keep this checklist for your reference; do not submit with your application.

APPLICATION CHECKLIST

Unless specified, all items below are required. Failure to provide the required items will delay a decision on your project and may result in denial of your application. Please reference statute RSA 482-A, Fill and Dredge in Wetlands, and the Wetland Rules Env-Wt 100-900.

- ☒ The completed, dated, signed, and certified application (Env-Wt 311.03(b)(1)).
- ☒ Correct fee as determined in RSA 482-A:3, I(b) or (c), subject to any cap established by RSA 482-A:3, X (Env-Wt 311.03(b)(2)). Make check or money order payable to "Treasurer – State of NH".
- ☒ The Required Planning actions required by Env-Wt 311.01(a)-(c) and Env-Wt 311.03(b)(3).
- ☒ US Army Corps of Engineers (ACE) "Appendix B, New Hampshire General Permits (GPs), Required Information and Corps Secondary Impacts Checklist" and its required attachments (Env-Wt 307.02). This includes the US Fish and Wildlife Service IPAC review and Section 106 Historic/Archaeological Resource review.
- ☒ Project plans described in Env-Wt 311.05 (Env-Wt 311.03(b)(4)).
- ☒ Maps, or electronic shape files and meta data, and other attachments specified in Env-Wt 311.06 (Env-Wt 311.03(b)(5)).
- ☒ Explanation of the methods, timing, and manner as to how the project will meet standard permit conditions required in Env-Wt 307 (Env-Wt 311.03(b)(7)).
- ☐ If applicable, the information regarding proposed compensatory mitigation specified in Env-Wt 311.08 and Chapter Env-Wt 800 - Permittee Responsible Mitigation Project Worksheet, unless not required under Env-Wt 313.04 (Env-Wt 311.03(b)(8); Env-Wt 311.08; Env-Wt 313.04).
- ☒ Any additional information specific to the **type of resource** as specified in Env-Wt 311.09 (Env-Wt 311.03(b)(9); Env-Wt 311.04(j)).
- ☒ Project specific information required by Env-Wt 500, Env-Wt 600, and Env-Wt 900 (Env-Wt 311.03(b)(11)).
- ☒ A list containing the name, mailing address and tax map/lot number of each abutter to the subject property (Env-Wt 311.03(b)(12)).
- ☒ Copies of certified postal receipts or other proof of receipt of the notices that are required by RSA 482-A:3, I(d) (Env-Wt 311.03(b)(13)).
- ☒ Project design considerations required by Env-Wt 313 (Env-Wt 311.04(j)).
- ☒ Town tax map showing the subject property, the location of the project on the property, and the location of properties of abutters with each lot labeled with the name and mailing address of the abutter (Env-Wt 311.06(a)).
- ☒ Dated and labeled color photographs that:
  - (1) Clearly depict:
    - a. All jurisdictional areas, including but not limited to portions of wetland, shoreline, or surface water where impacts have or are proposed to occur.
    - b. All existing shoreline structures.
  - (2) Are mounted or printed no more than 2 per sheet on 8.5 x 11 inch sheets (Env-Wt 311.06(b)).
- ☒ A copy of the appropriate US Geological Survey map or updated data based on LiDAR at a scale of one inch equals 2,000 feet showing the location of the subject property and proposed project (Env-Wt 311.06(c)).
- ☒ A narrative that describes the work sequence, including pre-construction through post-construction, and the relative timing and progression of all work (Env-Wt 311.06(d)).

- [x] For all projects in the protected tidal zone, a copy of the recorded deed with book and page numbers for the property (Env-Wt 311.06(e)).
- [ ] If the applicant is not the owner in fee of the subject property, documentation of the applicant's legal interest in the subject property, provided that for utility projects in a utility corridor, such documentation may comprise a list that:
  - (1) Identifies the county registry of deeds and book and page numbers of all of the easements or other recorded instruments that provide the necessary legal interest; and
  - (2) Has been certified as complete and accurate by a knowledgeable representative of the applicant (Env-Wt 311.06(f)).
- [x] The NHB memo containing the NHB identification number and results as well as any written follow-up communications such as additional memos or email communications with either NHB or NHF&G (Env-Wt 311.06(g)). See Wetlands Permitting: Protected Species and Habitat Fact Sheet.
- [x] A statement of whether the applicant has received comments from the local conservation commission and, if so, how the applicant has addressed the comments (Env-Wt 311.06(h)).
- [ ] For projects in LAC jurisdiction, a statement of whether the applicant has received comments from the LAC and, if so, how the applicant has addressed the comments (Env-Wt 311.06(i)).
- [ ] If the applicant is also seeking to be covered by the state general permits, a statement of whether comments have been received from any federal agency and, if so, how the applicant has addressed the comments (Env-Wt 311.06(j)).
- [x] Avoidance and Minimization Written Narrative or the Avoidance and Minimization Checklist, or your own avoidance and minimization narrative (Env-Wt 311.07).
- [ ] For after-the-fact applications: information required by Env-Wt 311.12.
- [ ] Coastal Resource Worksheet for coastal projects as required under Env-Wt 600.
- [ ] Prime Wetlands information required under Env-Wt 700. See WPPT for prime wetland mapping.

Required Attachments for Minor and Major Projects

- [ ] Attachment A: Minor and Major Projects (Env-Wt 313.03).
- [ ] Functional Assessment Worksheet or others means of documenting the results of actions required by Env-Wt 311.10 as part of an application preparation for a standard permit (Env-Wt 311.03(b)(3); Env-Wt 311.03(b)(10)). See Functional Assessments for Wetlands and Other Aquatic Resources Fact Sheet. For shoreline structures, see shoreline structures exemption in Env-Wt 311.03(b)(10)).

Optional Materials

- [ ] Stream Crossing Worksheet which summarizes the requirements for stream crossings under Env-Wt 900.
- [ ] Request for concurrent processing of related shoreland / wetlands permit applications (Env-Wt 313.05).

NEW HAMPSHIRE DEPARTMENT OF Environmental Services

AVOIDANCE AND MINIMIZATION CHECKLIST

Water Division/Land Resources Management

Wetlands Bureau

Check the Status of your Application

RSA/Rule: RSA 482-A/ Env-Wt 311.07(c)

This checklist can be used in lieu of the written narrative required by Env-Wt 311.07(a) to demonstrate compliance with requirements for Avoidance and Minimization (A/M), pursuant to RSA 482-A:1 and Env-Wt 311.07(c).

For the construction or modification of non-tidal shoreline structures over areas of surface waters without wetland vegetation, complete only Sections 1, 2, and 4 (or the applicable sections in Attachment A: Minor and Major Projects (NHDES-W-06-013).

The following definitions and abbreviations apply to this worksheet:

- "A/M BMPs" stands for Wetlands Best Management Practice Techniques for Avoidance and Minimization dated 2019, published by the New England Interstate Water Pollution Control Commission (Env-Wt 102.18).
- "Practicable" means available and capable of being done after taking into consideration cost, existing technology, and logistics in light of overall project purposes (Env-Wt 103.62).

SECTION 1 - CONTACT/LOCATION INFORMATION	
APPLICANT LAST NAME, FIRST NAME, M.I.: Diggins, Todd & Ward, Krystin	
PROJECT STREET ADDRESS: 3 Wentworth Terrace	PROJECT TOWN: Dover
TAX MAP/LOT NUMBER: 8 /32	

SECTION 2 - PRIMARY PURPOSE OF THE PROJECT		
Env-Wt 311.07(b)(1)	Indicate whether the primary purpose of the project is to construct a water-access structure or requires access through wetlands to reach a buildable lot or the buildable portion thereof.	☐ Yes ☒ No

If you answered "no" to this question, describe the purpose of the "non-access" project type you have proposed:

Addition to existing home within the previously developed tidal buffer zone.

SECTION 3 - A/M PROJECT DESIGN TECHNIQUES Check the appropriate boxes below in order to demonstrate that these items have been considered in the planning of the project. Use N/A (not applicable) for each technique that is not applicable to your project.		
Env-Wt 311.07(b)(2)	For any project that proposes new permanent impacts of more than one acre or that proposes new permanent impacts to a Priority Resource Area (PRA), or both, whether any other properties reasonably available to the applicant, whether already owned or controlled by the applicant or not, could be used to achieve the project's purpose without altering the functions and values of any jurisdictional area, in particular wetlands, streams, and PRAs.	☒ Check ☐ N/A
Env-Wt 311.07(b)(3)	Whether alternative designs or techniques, such as different layouts, construction sequencing, or alternative technologies could be used to avoid impacts to jurisdictional areas or their functions and values.	☒ Check ☐ N/A
Env-Wt 311.07(b)(4) Env-Wt 311.10(c)(1) Env-Wt 311.10(c)(2)	The results of the functional assessment required by Env-Wt 311.03(b)(10) were used to select the location and design for the proposed project that has the least impact to wetland functions.	☒ Check ☐ N/A
Env-Wt 311.07(b)(4) Env-Wt 311.10(c)(3)	Where impacts to wetland functions are unavoidable, the proposed impacts are limited to the wetlands with the least valuable functions on the site while avoiding and minimizing impacts to the wetlands with the highest and most valuable functions.	☐ Check ☒ N/A
Env-Wt 313.01(c)(1) Env-Wt 313.01(c)(2) Env-Wt 313.03(b)(1)	No practicable alternative would reduce adverse impact on the area and environments under the department's jurisdiction and the project will not cause random or unnecessary destruction of wetlands.	☒ Check ☐ N/A
Env-Wt 313.01(c)(3)	The project would not cause or contribute to the significant degradation of waters of the state or the loss of any PRAs.	☒ Check ☐ N/A
Env-Wt 313.03(b)(3) Env-Wt 904.07(c)(8)	The project maintains hydrologic connectivity between adjacent wetlands or stream systems.	☒ Check ☐ N/A
Env-Wt 311.10 A/M BMPs	Buildings and/or access are positioned away from high function wetlands or surface waters to avoid impact.	☐ Check ☒ N/A
Env-Wt 311.10 A/M BMPs	The project clusters structures to avoid wetland impacts.	☒ Check ☐ N/A
Env-Wt 311.10 A/M BMPs	The placement of roads and utility corridors avoids wetlands and their associated streams.	☐ Check ☒ N/A
A/M BMPs	The width of access roads or driveways is reduced to avoid and minimize impacts. Pullouts are incorporated in the design as needed.	☐ Check ☒ N/A
A/M BMPs	The project proposes bridges or spans instead of roads/driveways/trails with culverts.	☐ Check ☒ N/A

A/M BMPs	The project is designed to minimize the number and size of crossings, and crossings cross wetlands and/or streams at the narrowest point.	☐ Check ☒ N/A
Env-Wt 500 Env-Wt 600 Env-Wt 900	Wetland and stream crossings include features that accommodate aquatic organism and wildlife passage.	☐ Check ☒ N/A
Env-Wt 900	Stream crossings are sized to address hydraulic capacity and geomorphic compatibility.	☐ Check ☒ N/A
A/M BMPs	Disturbed areas are used for crossings wherever practicable, including existing roadways, paths, or trails upgraded with new culverts or bridges.	☐ Check ☒ N/A
SECTION 4 - NON-TIDAL SHORELINE STRUCTURES		
Env-Wt 313.03(c)(1)	The non-tidal shoreline structure has been designed to use the minimum construction surface area over surfaces waters necessary to meet the stated purpose of the structure.	☐ Check ☒ N/A
Env-Wt 313.03(c)(2)	The type of construction proposed for the non-tidal shoreline structure is the least intrusive upon the public trust that will ensure safe navigation and docking on the frontage.	☐ Check ☒ N/A
Env-Wt 313.03(c)(3)	The non-tidal shoreline structure has been designed to avoid and minimize impacts on the ability of abutting owners to use and enjoy their properties.	☐ Check ☒ N/A
Env-Wt 313.03(c)(4)	The non-tidal shoreline structure has been designed to avoid and minimize impacts to the public's right to navigation, passage, and use of the resource for commerce and recreation.	☐ Check ☒ N/A
Env-Wt 313.03(c)(5)	The non-tidal shoreline structure has been designed, located, and configured to avoid impacts to water quality, aquatic vegetation, and wildlife and finfish habitat.	☐ Check ☒ N/A
Env-Wt 313.03(c)(6)	The non-tidal shoreline structure has been designed to avoid and minimize the removal of vegetation, the number of access points through wetlands or over the bank, and activities that may have an adverse effect on shoreline stability.	☐ Check ☒ N/A

PROTECTED TIDAL ZONE
PROJECT-SPECIFIC WORKSHEET
FOR STANDARD APPLICATION
Water Division/Land Resources Management
Wetlands Bureau

Check the Status of your Application

RSA/Rule: RSA 482-A/ Env-Wt 610

This worksheet summarizes the criteria and requirements for a Standard Permit for impact in the "Protected Tidal Zone", one of the six specific project types in tidal area described in Chapter Env-Wt 600. In addition to the project-specific criteria and requirements on this worksheet, all Standard Applications must meet the criteria and requirements listed in the Standard Application form (NHDES-W-06-012) and the Coastal Resource Worksheet.

SECTION 1 - APPLICATION REQUIREMENTS FOR PROTECTED TIDAL ZONE AND REQUIRED ATTACHMENTS (Env-Wt 610.04)

The following plans and other information shall be submitted with applications for work within the protected tidal zone:

- ☒ Existing and proposed contours at 2-foot intervals measured from the Highest Observable Tide Line (HOTL);
- ☒ If any portion of the subject parcel is located in a regulatory floodplain, the location of the 100-year flood boundary zone, and water elevation as shown on the applicable Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map;
- ☒ All of applicable local and state setbacks;
- ☒ The dimensions and locations of all:
  - ☒ Existing and proposed structures;
  - ☒ Existing and proposed impervious areas;
  - ☒ Existing and proposed disturbed areas;
  - ☒ Areas to remain in an unaltered state;
  - ☒ Existing cleared areas, such as gardens, lawns, and paths; and
  - ☒ Proposed temporary impacts associated with the completion of the project;
- ☒ Proposed methods of erosions and siltation controls, identified graphically and labeled on a plan, or otherwise annotated as needed for clarity;
- ☒ A plan of any planting(s) proposed in the waterfront buffer, showing the proposed locations(s) and Latin names or common names of proposed species;
- ☒ If applicable, the location of an existing or proposed 6-foot wide foot path to the waterbody or a temporary access path;
- ☒ For any project proposing that the impervious area be at least 15% but not more than 20% within the protected tidal zone, a statement signed by the applicant certifying that the impervious area is not more than 20%
- ☒ For any project proposing that impervious area be greater than 20% within the protected tidal zone, plans for a stormwater management system that will infiltrate increased stormwater from development provided that if impervious area is or is proposed to be greater than 30%, the stormwater management systems shall be designed by a professional engineer;
- ☒ For any project involving pervious surfaces, a plan with specifications of how those surfaces will be maintained; and
- ☒ All other relevant features necessary to clearly define both existing conditions and the proposed project.

SECTION 2 - APPROVAL CRITERIA (Env-Wt 313.01)

☒ An application for structure construction within the protected tidal zone shall comply with Env-Wt 313.01.

SECTION 3 - DESIGN & CONSTRUCTION REQUIREMENTS (Env-Wt 610.03)

The construction of structures within the protected tidal zone shall comply with:

☒ The standards described in FEMA P-55, Coastal Construction Manual: Principles and Practices of Planning, Siting, Designing, Constructing and Maintaining Residential Buildings in Coastal Areas, 4th edition (2011); and

☒ Local resiliency planning ordinances.

SECTION 4 - PROTECTED TIDAL ZONE RESTRICTIONS (Env-Wt 610.05- 610.13)

☒ The restrictions identified in RSA 483-B:9, II shall apply to the protected tidal zone;

☒ The provisions of RSA 483-B:9, V(a) related to the maintenance of a waterfront buffer shall apply to the protected tidal zone within 50 feet of the HOTL;

☒ Accessory structures in the waterfront buffer shall comply with the applicable provisions of Env-Wq 1400;

☒ The provisions of RSA 483-B:9, V(b) related to the maintenance of a woodland buffer shall apply to the protected tidal zone within 150 feet of the HOTL;

☒ The provisions of RSA 483-B:9, V(c) related to individual sewage disposal systems shall apply to the protected tidal zone;

☒ The provisions of RSA 483-B:9, V(d) related to erosion and siltation shall apply to the protected tidal zone;

☒ The provisions of RSA 483-B:9, V(e) related to minimum lots and residential development shall apply to the protected tidal zone;

☒ The provisions of RSA 483-B:9, V(f) related to minimum lots and non-residential development shall apply to the protected tidal zone; and

☒ The provisions of RSA 483-B:9 V(g) related to impervious surfaces shall apply to the protected tidal zone.

SECTION 5 - PROJECT CLASSIFICATION (Env-Wt 610.17)

(a) A major project shall be:

(1) Any dredging, filling, or construction activity, or any combination thereof, that is proposed to:

a. Occur within 100 feet of the HOTL; and

b. Alter any tidal shoreline bank, tidal flat, wetlands, surface water, or undeveloped uplands; or

(2) A project that would be major based on an aggregation of projects under Env-Wt 400.

(b) A minor project shall be any dredging, filling, or construction activity, or any combination thereof, that:

(1) Involves work within 75 feet of a saltmarsh in the developed upland tidal buffer;

(2) Is not a major project; and

(3) Will disturb 3,000 square feet (SF) or more but less than 10,000 SF in the developed upland tidal buffer.

(c) A minimum impact project shall be any dredging, filling, or construction activity, or any combination thereof, that:

(1) Is in a previously developed upland area;

(2) Is within 100 feet of the HOTL; and

(3) Will disturb less than 3,000 SF.

NHDES STANDARD DREDGE & FILL WETLANDS APPLICATION SUPPLEMENTAL NARRATIVE

FOR

Construction of House Addition and Pervious Driveway and Patio, 3 Wentworth Terrace, Dover, NH

The following information is provided as a supplement to the information provided in the Wetland Permit Application and Plans.

Env-Wt 307 – Conditions applicable to all activities in jurisdictional areas

307.02 – US Army Corps of Engineers Conditions : Appendix B is attached to this permit application.

307.03 – Protection of Water Quality Required: Contract is responsible to implement erosion control measures as depicted on the plan set and any additional measures required to protect water quality. Erosion control measures are to be installed prior to the start of construction and shall be maintained throughout construction.

307.04 – Protection of Fisheries and Breeding Areas Required: Erosion control measures are to be implement to prevent any impact to fisheries and/or breeding areas.

307.05 – Protection Against Invasive Species: Proposed construction to occur in area of existing lawn. No invasive species are anticipated to be located in the project area. If invasive species are identified during construction and cannot be avoided, the removal of invasive species shall be conducted in accordance with the Department of Environment Services publication "Best Management Practices for the Control of Invasive and Noxious Plant Species".

307.06 – Protection of Rare, Threatened or Endangered Species and Critical Habitat: The NH Natural Heritage Bureau has provided a review of the proposed project area and has found that the proposed project will not impact any rare, threatened, or endangered species or critical habitat. NHB review letter NHB22-0315 is included with this application.

307.07 – Consistency Required with shoreland Water quality Protection Act: Due to the location of this project within the protected shoreland, a NHDES Shoreland Permit has been requested.

307.08 – Protection of Designated Prime Wetlands and Duly-Established 100-Foot Buffer: Project is not located within 100' of a designated prime wetland.

307.09 – Shoreline Structures: This project includes no shoreland structures.

307.10 – Dredging Activity Conditions: This project includes no dredging activities.

307.11 – Filling Activity Conditions: No wetland filling is proposed.

307.12 – Restoring Temporary Impacts; Site Stabilization: Upon completion of construction all temporary impacts will be restored and the site will be stabilized as indicated in the plan set.

307.13 – Property Line Setback: Proposed work is greater than 10' from the property line.

307.14 – Rock Removal: This project does not include any rock removal from surface waters.

307.15 – Use of Heavy Equipment in Wetlands: No work is proposed in wetlands.

307.16 – Adherence to Approved Plans Required: All work shall be according to the approved plans.

307.18 - Reports: Reporting as required will be completed by the contractor.

Construction Sequence
For

Construction of House Addition and Pervious Driveway and Patio, 3 Wentworth Terrace, Dover, NH

1. WETLAND BOUNDARIES ARE TO BE CLEARLY MARKED PRIOR TO THE START OF CONSTRUCTION.
2. CUT AND REMOVE TREES IN CONSTRUCTION AREA AS REQUIRED OR DIRECTED.
3. INSTALL SILT FENCING PRIOR TO THE START OF CONSTRUCTION. THESE ARE TO BE MAINTAINED UNTIL THE FINAL PAVEMENT SURFACING AND LANDSCAPING AREAS ARE ESTABLISHED.
4. CLEAR, CUT, GRUB AND DISPOSE OF DEBRIS IN APPROVED FACILITIES. THIS INCLUDES ANY REQUIRED DEMOLITION OF EXISTING STRUCTURES, UTILITIES, ETC.
5. STRIP LOAM AND PAVEMENT. STABILIZE STOCKPILE AS NECESSARY.
6. PERFORM PRELIMINARY SITE GRADING IN ACCORDANCE WITH THE PLANS, INCLUDING THE CONSTRUCTION OF ANY RETAINING WALLS.
7. PREPARE BUILDING PAD TO ENABLE BUILDING CONSTRUCTION TO BEGIN.
8. INSTALL INLET PROTECTION AT ALL CATCH BASINS AS THEY ARE CONSTRUCTED IN ACCORDANCE WITH DETAILS.
9. DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINAGE DITCHES, CHECK DAMS, SEDIMENT TRAPS, ETC., TO PREVENT EROSION ON THE SITE AND PREVENT ANY SILTATION OF ABUTTING WATERS AND/OR PROPERTY.
10. PERFORM ALL REMAINING SITE CONSTRUCTION (i.e. BUILDING, CURBING, UTILITY CONNECTIONS, ETC.).
11. PERFORM FINAL FINE GRADING, INCLUDING PLACEMENT OF `SELECT' SUBGRADE MATERIALS.
12. INSTALL DRIVEWAY.
13. LOAM AND SEED ALL DISTURBED AREAS AND INSTALL ANY REQUIRED SEDIMENT AND EROSION CONTROL FACILITIES (i.e. RIP RAP, EROSION CONTROL BLANKETS, ETC.).
14. ALL CUT AND FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
15. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
16. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE BEEN 75%-85% ESTABLISHED AND SITE IMPROVEMENTS ARE COMPLETE. SMOOTH AND RE-VEGETATE ALL DISTURBED AREAS.
17. CLEAN SITE AND ALL DRAINAGE STRUCTURES, PIPES AND SUMPS OF ALL SILT AND DEBRIS.

18. UPON COMPLETION OF CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY ANY RELEVANT PERMITTING AGENCIES THAT THE CONSTRUCTION HAS BEEN FINISHED IN A SATISFACTORY MANNER.

TODD DIGGINS & KRYSTN WARD

Letter of Authorization

I, ~~Marge Ward,~~ 150 Joppa Road, Merrimack, NH 03054, owner of property located in Dover, NH, known as Tax Map 8, Lot 32, do hereby authorize Jones & Beach Engineers, Inc., PO Box 219, Stratham, NH, to act on my behalf concerning the previously-mentioned property. The parcel is located on 3 Wentworth Terrace in Dover, NH.

I hereby appoint Jones & Beach Engineers, Inc., as my agent to act on my behalf in the review process, to include any required signatures.

Witness TODD DIGGINS ~~Marge Ward~~ Date 10/4/21

New Hampshire Natural Heritage Bureau
NHB DataCheck Results Letter

To: Barry Gier
85 Portsmouth Avenue
P.O. Box 219
Stratham, NH 03885

From: NH Natural Heritage Bureau
Date: 2/9/2022 (valid until 2/9/2023)
Re: Review by NH Natural Heritage Bureau of request submitted 1/28/2022
Permits: NHDES - Shoreland Standard Permit, NHDES - Wetland Standard Dredge & Fill - Minimum

NHB ID: **NHB22-0315**

Applicant: Todd Doggins & Krystin Ward

Location: Dover
3 Wentworth Terrace

Project Description: Expansion of an existing dwelling with the construction of a 975 sq.ft. addition. Replacement of existing impervious paver patio and asphalt driveway with pervious paver alternatives.

The NH Natural Heritage database has been checked by staff of the NH Natural Heritage Bureau and/or the NH Nongame and Endangered Species Program for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government.

It was determined that, although there was a NHB record (e.g., rare wildlife, plant, and/or natural community) present in the vicinity, we do not expect that it will be impacted by the proposed project. This determination was made based on the project information submitted via the NHB Datacheck Tool on 1/28/2022 1:01:54 PM, and cannot be used for any other project.

Based on the information submitted, no further consultation with the NH Fish and Game Department pursuant to Fis 1004 is required.

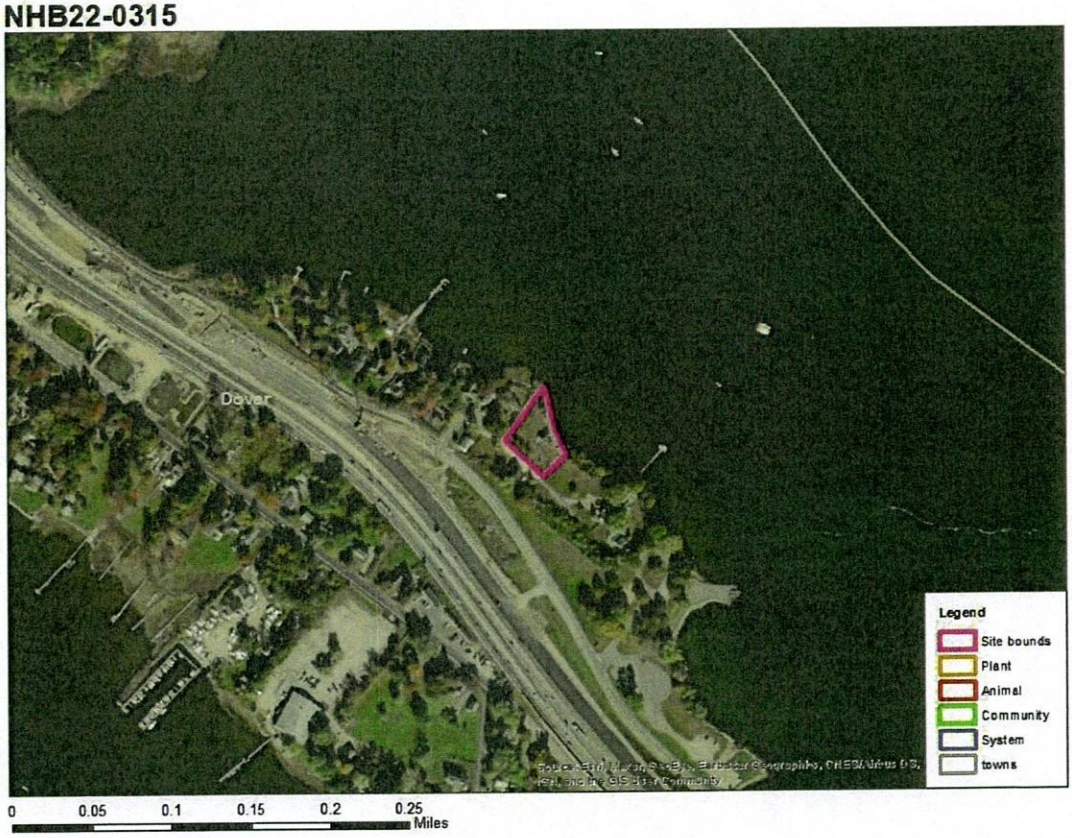
Department of Natural and Cultural Resources
Division of Forests and Lands
(603) 271-2214 fax: 271-6488

DNCR/NHB
172 Pembroke Rd.
Concord, NH 03301

New Hampshire Natural Heritage Bureau
NHB DataCheck Results Letter

MAP OF PROJECT BOUNDARIES FOR: **NHB22-0315**

NHB22-0315



Department of Natural and Cultural Resources
Division of Forests and Lands
(603) 271-2214 fax: 271-6488

DNCR/NHB
172 Pembroke Rd.
Concord, NH 03301

Please mail the completed form and required material to:

New Hampshire Division of Historical Resources
State Historic Preservation Office
Attention: Review & Compliance
19 Pillsbury Street, Concord, NH 03301-3570

RECEIVED
AUG 09 2017

DHR Use Only	
R&C #	8919
Log In Date	8/9/17
Response Date	8/16/17
Sent Date	8/21/17

Request for Project Review by the New Hampshire Division of Historical Resources

☒ This is a new submittal
☐ This is additional information relating to DHR Review & Compliance (R&C) #:

GENERAL PROJECT INFORMATION

Project Title

Project Location 3 Wentworth Terrace

City/Town Dover Tax Map 8 Lot # 32-1

NH State Plane - Feet Geographic Coordinates: Easting 1207767 Northing 228387
(See RPR Instructions and R&C FAQs for guidance.)

Lead Federal Agency and Contact *(if applicable)*
(Agency providing funds, licenses, or permits)
Permit Type and Permit or Job Reference #

State Agency and Contact *(if applicable)* NHDES Wetlands Bureau

Permit Type and Permit or Job Reference # n/a

APPLICANT INFORMATION

Applicant Name Jeff Warschaeur

Mailing Address 34 Heath Drive Phone Number (717) 574-9175

City Newfields State NH Zip 03856 Email jeffw@nexuscorp.com

CONTACT PERSON TO RECEIVE RESPONSE

Name/Company Paige Libbey, Jones and Beach Engineers, Inc.

Mailing Address PO BOX 219 Phone Number 603-772-4746

City Stratham State NH Zip 03885 Email plibbey@jonesandbeach.com

This form is updated periodically. Please download the current form at www.nh.gov/nhdhr/review. *Please refer to the Request for Project Review Instructions for direction on completing this form.* Submit one copy of this project review form for each project for which review is requested. Include a self-addressed stamped envelope to expedite review response. Project submissions will not be accepted via facsimile or e-mail. This form is required. Review request form must be complete for review to begin. Incomplete forms will be sent back to the applicant without comment. Please be aware that this form may only initiate consultation. For some projects, additional information will be needed to complete the Section 106 review. All items and supporting documentation submitted with a review request, including photographs and publications, will be retained by the DHR as part of its review records. Items to be kept confidential should be clearly identified. For questions regarding the DHR review process and the DHR's role in it, please visit our website at: www.nh.gov/nhdhr/review or contact the R&C Specialist at christina.st.louis@dcr.nh.gov or 603.271.3558.

PROJECTS CANNOT BE PROCESSED WITHOUT THIS INFORMATION

Project Boundaries and Description

- ☒ Attach the relevant portion of a 7.5' USGS Map (photocopied or computer-generated) ***indicating the defined project boundary.*** *(See RPR Instructions and R&C FAQs for guidance.)*
- ☒ Attach a detailed narrative description of the proposed project.
- ☒ Attach a site plan. The site plan should include the project boundaries and areas of proposed excavation.
- ☒ Attach photos of the project area (overview of project location and area adjacent to project location, and specific areas of proposed impacts and disturbances.) *(Informative photo captions are requested.)*
- ☒ A DHR file review must be conducted to identify properties within or adjacent to the project area. Provide file review results in **Table 1**. *(Blank table forms are available on the DHR website.)* File review conducted on 7/12/2017.

Architecture

Are there any buildings, structures (bridges, walls, culverts, etc.) objects, districts or landscapes within the project area? ☒ Yes ☐ No
If no, skip to Archaeology section. If yes, submit all of the following information:

Approximate age(s):

- ☒ Photographs of ***each*** resource or streetscape located within the project area, with captions, along with a mapped photo key. (Digital photographs are accepted. All photographs must be clear, crisp and focused.)
- ☒ If the project involves rehabilitation, demolition, additions, or alterations to existing buildings or structures, provide additional photographs showing detailed project work locations. (i.e. Detail photo of windows if window replacement is proposed.)

Archaeology

Does the proposed undertaking involve ground-disturbing activity? ☒ Yes ☐ No
If yes, submit all of the following information:

- ☒ Description of current and previous land use and disturbances.
- ☒ Available information concerning known or suspected archaeological resources within the project area (such as cellar holes, wells, foundations, dams, etc.)

Please note that for many projects an architectural and/or archaeological survey or other additional information may be needed to complete the Section 106 process.

DHR Comment/Finding Recommendation *This Space for Division of Historical Resources Use Only*

☐ Insufficient information to initiate review. ☐ Additional information is needed in order to complete review.

☐ No Potential to cause Effects ☑ No Historic Properties Affected ☐ No Adverse Effect ☐ Adverse Effect

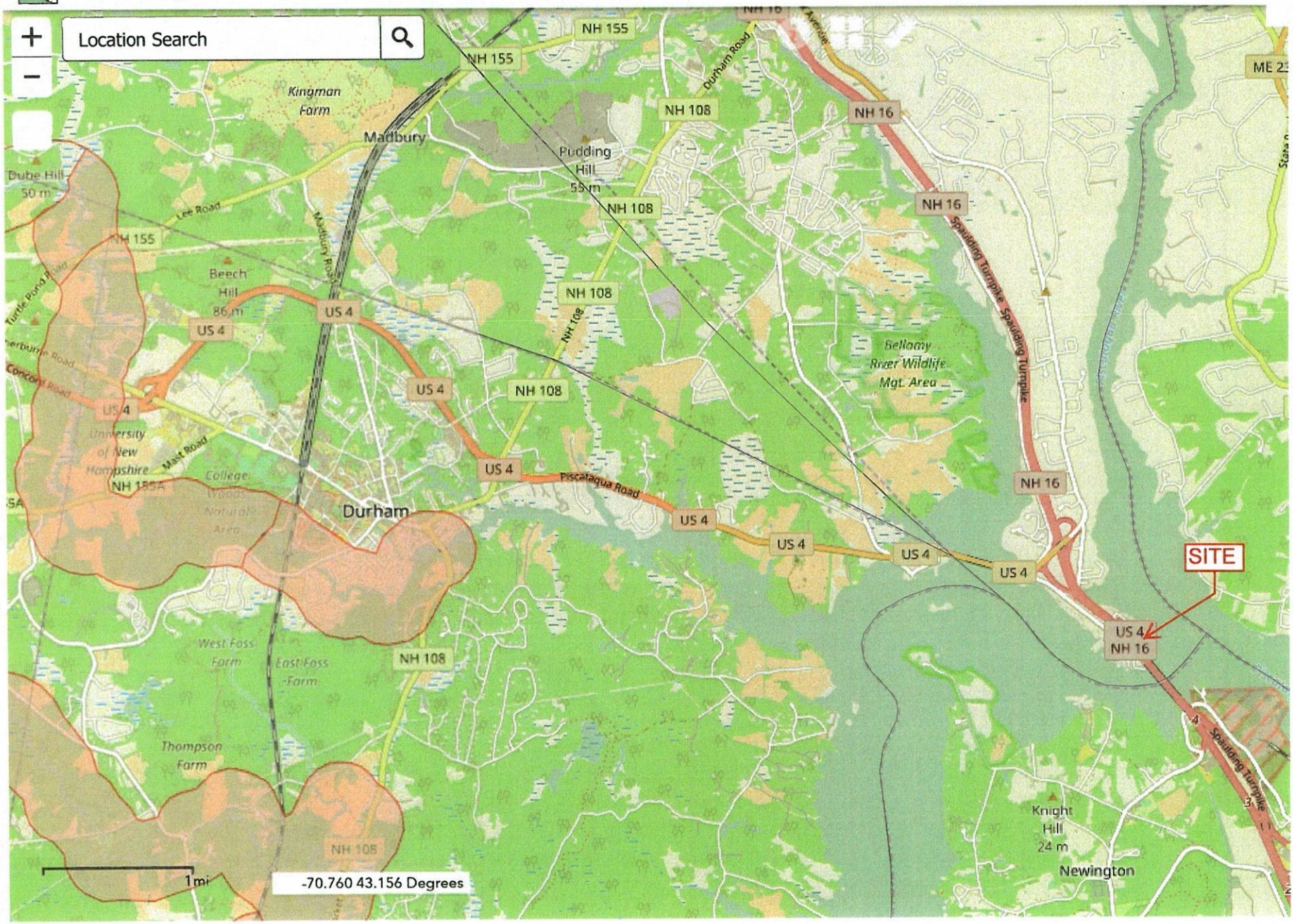
Comments: _____

If plans change or resources are discovered in the course of this project, you must contact the Division of Historical Resources as required by federal law and regulation.

Authorized Signature: Richard Boisvert DSHPO Date: 8-16-17

NH Designated River Corridor Web Map

NH Rivers Managment and Protection Program



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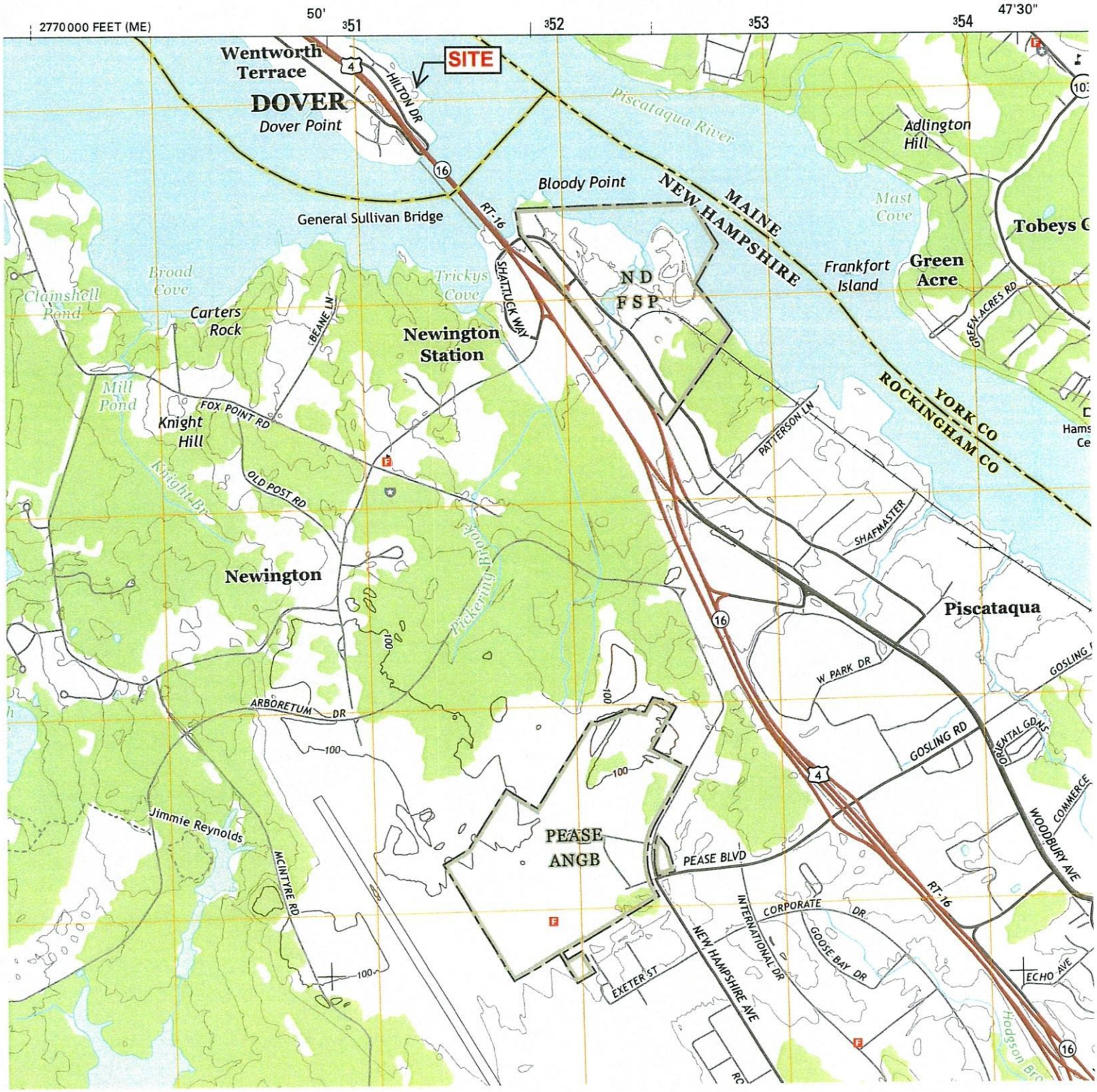
OGICAL SURVEY



3 Wentworth Terrace
Dover, NH
Photo Log

Picture #1 - Looking South-East

3 Wentworth Terrace
Dover, NH
Photo Log

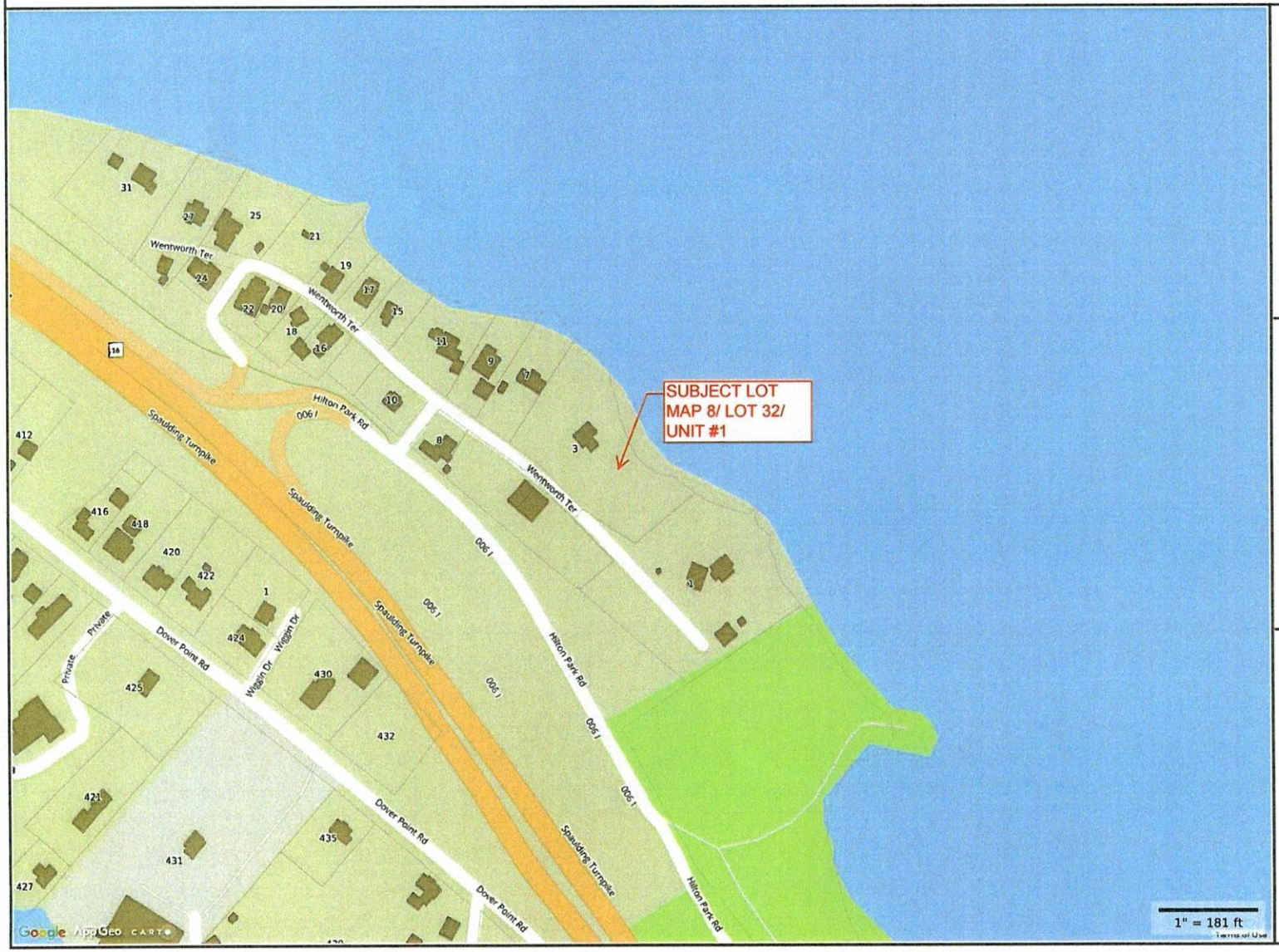
Picture #2 - Looking East

3 Wentworth Terrace
Dover, NH
Photo Log

Picture #3 - Looking South-East

3 Wentworth Terrace
Dover, NH
Photo Log

Picture #4 - Looking North

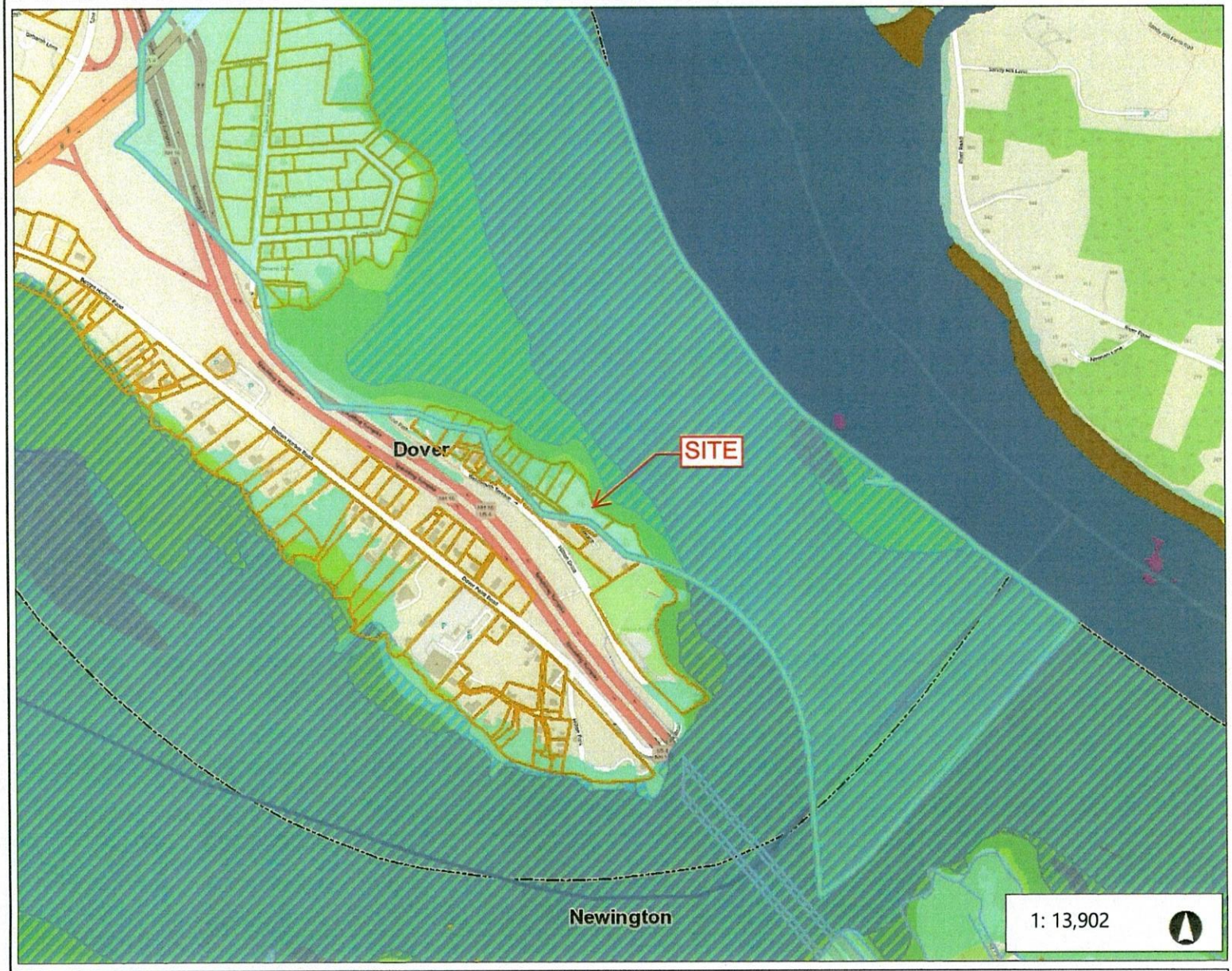


MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

City of Dover, NH makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Parcels updated 6/13/2017
Properties updated 07/18/2017

Your Organization | 3 Wentworth Terrace



Legend

- Wetland_Permits_points
- Parcel Polygons
  - Parcel Polygons
  - Attributes for Additional Lines
- Parcel Lines
- Oyster Restoration Sites
- Aquaculture Sites - 2015
- Shoreland Act Urban Exemptic
- 4th Order and Above Streams
  - 4
  - 5
  - 6
  - 7
- Shoreland Jurisdiction - Lakes
- NH City/Town Boundaries
- Flood Plain Wetlands Adjacent
- Prime Wetlands with 100 ft Buf
- Prime Wetlands
- Designated Rivers
  - Subject to SWQPA
  - Not Subject to SWQPA
- FEMA Floodplains
  - 1 pct. Annual Chance Flood Hazarc
  - Floodway
  - 0.2 pct. Annual Chance Flood Haza
  - Area of Undetermined Flood Hazar

Notes

0.4 0 0.22 0.4 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere

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This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

ABUTTERS LIST (200 ft)
AS OF
February 2, 2022
FOR
3 Wentworth Terrace, Dover, NH 03820
JBE PROJECT No. 21069

OWNER OF RECORD/APPLICANT:

TAX MAP 8/ LOT 32-1
TODD DIGGINS
KRYSTIN WARD
3 WENTWORTH TERRACE
DOVER NH 03820

ABUTTERS:

08/32-2
STEVAN HUFF
441 BRACKETT ROAD
RYE, NH 03870

08/31
MARK JOHNSTONE
1 WENTWORTH TERRACE
DOVER NH 03820

08/33
FEE BRENDAN JOHN
7 WENTWORTH TERRACE
DOVER NH 03820

08/34
SIGURDSSON BJARNI BJORN
9 WENTWORTH TR
DOVER NH 03820

08/34A
M. MCELLEN LLC
8 WENTWORTH TERRACE
DOVER NH 03820

08/35
MAKRIS ALEXIS TRUSTEE
11 WENTWORTH TERRACE
DOVER NH 03820

08/37
CITY OF DOVER
288 CENTRAL AVE
DOVER NH 03820

ENGINEERS/SURVEYORS:

JONES & BEACH ENGINEERS, INC.
ATTN: BARRY GIER
PO BOX 219
STRATHAM, NH 03885

JONES&BEACH
ENGINEERS INC.
85 Portsmouth Avenue, PO Box 219, Stratham, NH 03885
603.772.4746 - JonesandBeach.com

March 3, 2022

RE: NHDES Standard Dredge and Fill Wetlands Permit Application
3 Wentworth Terrace, Dover, NH
JBE Project No. 21069

Dear Abutter:

On behalf of our client, Todd Diggins and Krystin Ward, under RSA 482-A, we are required to notify you that we are applying for a Standard Dredge and Fill Wetlands Permit from the N.H. Department of Environmental Services (DES) Wetlands Bureau. This letter is to inform you, as an abutter to the above-referenced property, that an application will be filed with the DES Wetlands Bureau.

The project proposes to construct and addition to the existing house located at 3 Wentworth Terrace. The construction of the new home will include revisions to the existing driveway and patio.

The application with plans that show the proposed project and wetland impacts will be available for viewing during normal business hours at the office of the Dover City Clerk.

Please feel free to contact me by email at bgier@jonesandbeach.com with any questions or comments during your review.

Very truly yours,
JONES & BEACH ENGINEERS, INC.

Barry W. Gier

Barry W. Gier, P.E.
Vice-President

Surface Water Impairments

Legend

- Surface Water Impairments with 1 Mile Buffer
- Parcels - polygons

Map Scale

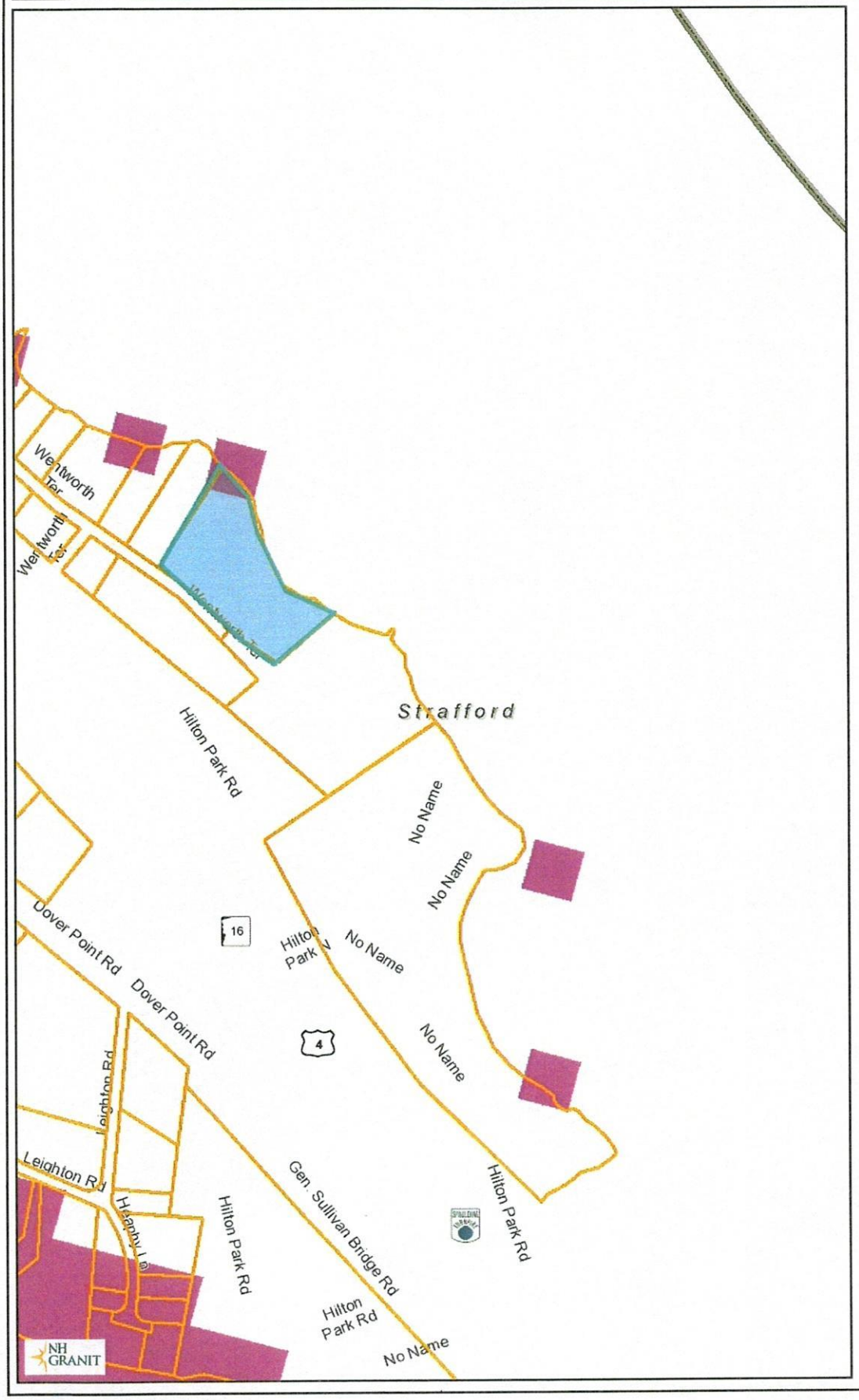
1: 3,247

© NH DES, http://des.nh.gov

Map Generated: 8/4/2017

Notes

Highest Ranked Wildlife Habitat



Legend

- Polygons
- State
- County
- City/Town

WAP 2015: Highest Ranked Wildlife Habitat

- Not Top Ranked
- Highest Ranked Habitat in NH
- Highest Ranked Habitat in Region
- Supporting Landscape

Map Scale

1: 3,247

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Map Generated: 8/4/2017

Notes

US Army Corps of Engineers ®
New England District

Appendix B

New Hampshire General Permits (GPs)
Required Information and Corps Secondary Impacts Checklist

In order for the Corps of Engineers to properly evaluate your application, applicants must submit the following information along with the New Hampshire DES Wetlands Bureau application or permit notification forms. Some projects may require more information. For a more comprehensive checklist, go to https://www.nae.usace.army.mil/Missions/Regulatory/ "Useful Documents, Forms and Publications" and then "Corps Application Form and Guidance." Check with the Corps at (978) 318-8832 for project-specific requirements. For your convenience, this Appendix B is also attached to the State of New Hampshire DES Wetlands Bureau application and Permit by Notification forms.

All Projects:

- New Hampshire Department of Environmental Services (DES) Wetlands Permit Application.
- Request for Project Review Form by the New Hampshire Division of Historical Resources (DHR) https://www.nh.gov/nhdhr/review/rpr.htm.
- Photographs of wetland/waterway to be impacted.
- Purpose of the project.
- Legible, reproducible plans no larger than 11"x17" with bar scale. Provide locus map and plan views of the entire property.
- Typical cross-section views of all wetland and waterway fill areas and wetland replication areas.
- In navigable waters, show mean low water (MLW) and mean high water (MHW) elevations. Show the high tide line (HTL) elevations when fill is involved. In other waters, show ordinary high water (OHW) elevation.
- On each plan, show the following for the project:
    - Vertical datum and the NAVD 1988 equivalent with the vertical units as U.S. feet. In coastal waters this may be mean higher high water (MHHW), mean high water (MHW), mean low water (MLW), mean lower low water (MLLW) or other tidal datum with the vertical units as U.S. feet. MLLW and MHHW are preferred. Provide the correction factor detailing how the vertical datum (e.g., MLLW) was derived using the latest National Tidal Datum Epoch for that area, typically 1983-2001.
    - Horizontal state plane coordinates in U.S. survey feet based on the Traverse Mercator Grid system for the State of New Hampshire (Zone 2800) NAD 83.
    - Project limits with existing and proposed conditions.
    - Limits of any Federal Navigation Project in the vicinity of the project area and horizontal State Plane Coordinates in U.S. survey feet for the limits of the proposed work closest to the Federal Navigation Project;
    - Volume, type, and source of fill material to be discharged into waters and wetlands, including the area(s) (in square feet or acres) of fill in wetlands, below the OHW in inland waters and below the HTL in coastal waters.
    - Delineation of all waterways and wetlands on the project site,:
- Use Federal delineation methods and include Corps wetland delineation data sheets (GC 2).
- For activities involving discharges of dredged or fill material into waters of the U.S., include a statement describing how impacts to waters of the U.S. are to be avoided and minimized, and either a statement describing how impacts to waters of the U.S. are to be compensated for (or a conceptual or detailed mitigation plan) or a statement explaining why compensatory mitigation should not be required for the proposed impacts. Please contact the Corps for guidance.

US Army Corps of Engineers®
New England District

New Hampshire General Permits (GPs)
Appendix B - Corps Secondary Impacts Checklist
(for inland wetland/waterway fill projects in New Hampshire)

1. Attach any explanations to this checklist. Lack of information could delay a Corps permit determination.
2. All references to "work" include all work associated with the project construction and operation. Work includes filling, clearing, flooding, draining, excavation, dozing, stumping, etc.
3. See GC 5, regarding single and complete projects.
4. Contact the Corps at (978) 318-8832 with any questions.

1. Impaired Waters	Yes	No
1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water? See http://des.nh.gov/organization/divisions/water/wmb/section401/impaired_waters.htm to determine if there is an impaired water in the vicinity of your work area.*	X	
2. Wetlands	Yes	No
2.1 Are there are streams, brooks, rivers, ponds, or lakes within 200 feet of any proposed work?	X	
2.2 Are there proposed impacts to SAS, special wetlands. Applicants may obtain information from the NH Department of Resources and Economic Development Natural Heritage Bureau (NHB) DataCheck Tool for information about resources located on the property at https://www2.des.state.nh.us/nhb_datacheck/. The book Natural Community Systems of New Hampshire also contains specific information about the natural communities found in NH.		X
2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport & wildlife passage?	N/A	
2.4 Would the project remove part or all of a riparian buffer? (Riparian buffers are lands adjacent to streams where vegetation is strongly influenced by the presence of water. They are often thin lines of vegetation containing native grasses, flowers, shrubs and/or trees that line the stream banks. They are also called vegetated buffer zones.)		X
2.5 The overall project site is more than 40 acres?		X
2.6 What is the area of the previously filled wetlands?	N/A	
2.7 What is the area of the proposed fill in wetlands?	N/A	
2.8 What is the % of previously and proposed fill in wetlands to the overall project site?	N/A	
3. Wildlife	Yes	No
3.1 Has the NHB & USFWS determined that there are known occurrences of rare species, exemplary natural communities, Federal and State threatened and endangered species and habitat, in the vicinity of the proposed project? (All projects require an NHB ID number & a USFWS IPAC determination.) NHB DataCheck Tool: https://www2.des.state.nh.us/nhb_datacheck/ USFWS IPAC website: https://ecos.fws.gov/ipac/location/index		X

3.2 Would work occur in any area identified as either "Highest Ranked Habitat in N.H." or "Highest Ranked Habitat in Ecological Region"? (These areas are colored magenta and green, respectively, on NH Fish and Game's map, "2010 Highest Ranked Wildlife Habitat by Ecological Condition.") Map information can be found at: • PDF: https://wildlife.state.nh.us/wildlife/wap-high-rank.html. • Data Mapper: www.granit.unh.edu. • GIS: www.granit.unh.edu/data/downloadfreedata/category/databycategory.html.		X
3.3 Would the project impact more than 20 acres of an undeveloped land block (upland, wetland/waterway) on the entire project site and/or on an adjoining property(s)?		X
3.4 Does the project propose more than a 10-lot residential subdivision, or a commercial or industrial development?		X
3.5 Are stream crossings designed in accordance with the GC 21?	N/A	
4. Flooding/Floodplain Values	Yes	No
4.1 Is the proposed project within the 100-year floodplain of an adjacent river or stream?		X
4.2 If 4.1 is yes, will compensatory flood storage be provided if the project results in a loss of flood storage?		
5. Historic/Archaeological Resources		
For a minimum, minor or major impact project - a copy of the Request for Project Review (RPR) Form (www.nh.gov/nhdhr/review) with your DES file number shall be sent to the NH Division of Historical Resources as required on Page 11 GC 8(d) of the GP document**	X	

*Although this checklist utilizes state information, its submittal to the Corps is a Federal requirement.
** If your project is not within Federal jurisdiction, coordination with NH DHR is not required under Federal law.

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ATTN: BARRY GIER
PO BOX 219
STRATHAM, NH 03885

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RYE, NH 03870

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TODD DIGGINS
KRYSTIN WARD
3 WENTWORTH TERRACE
DOVER NH 03820

21069

PS Form 3800, April 2015 PSN 7530-02-000-9047

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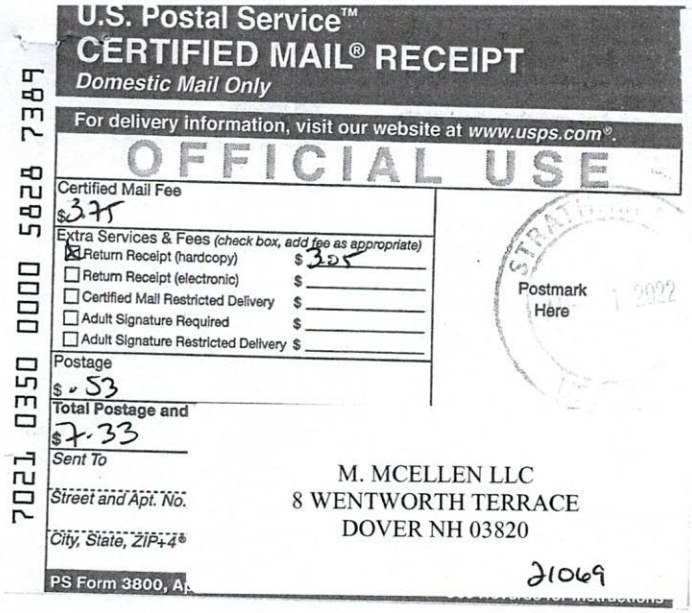

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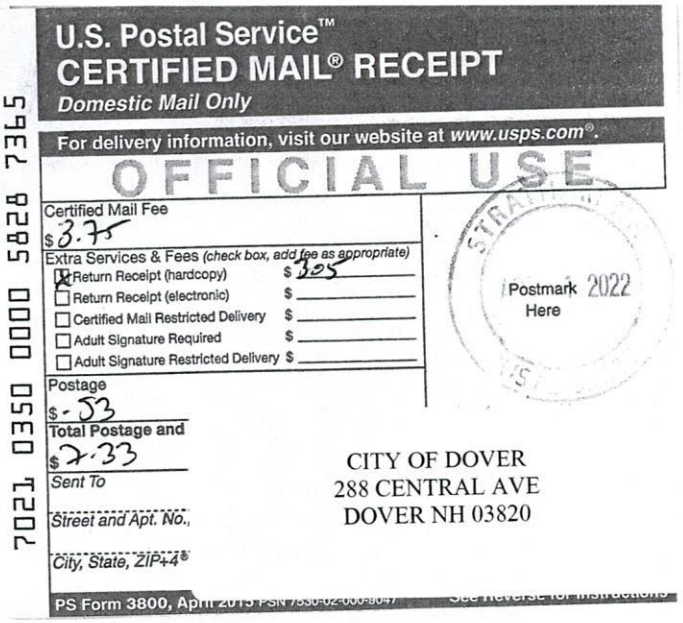

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DOVER NH 03820

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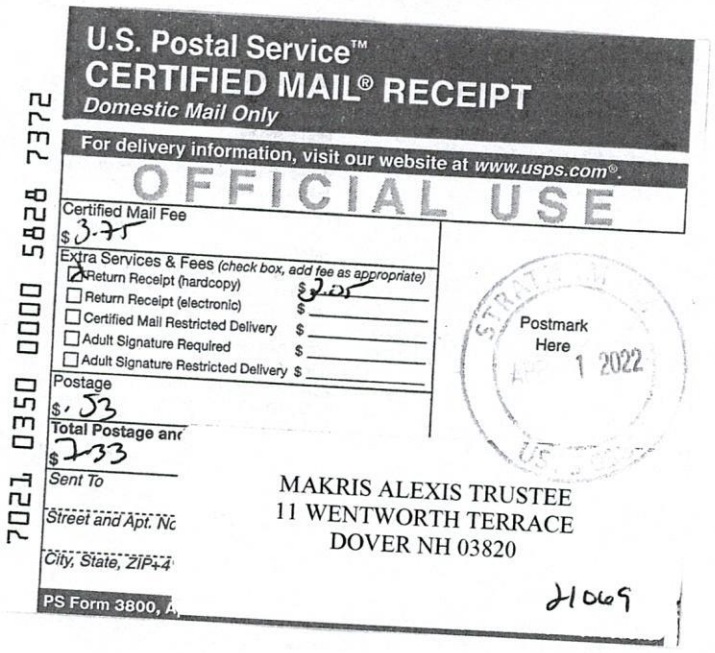

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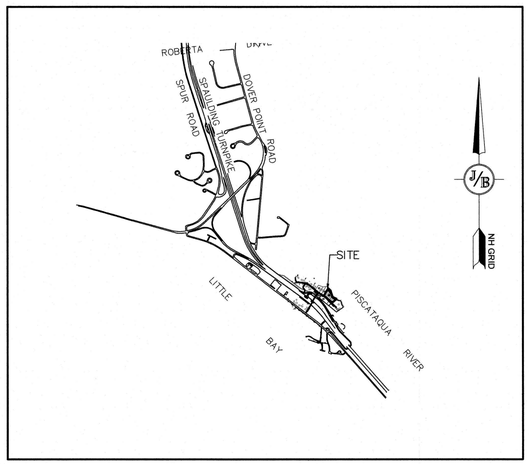
SITE DEVELOPMENT
"3 WENTWORTH TERRACE"
TAX MAP 8 AND LOT NUMBER 32, UNIT #1
3 WENTWORTH TERRACE
DOVER, NEW HAMPSHIRE

SHEET INDEX

CS	COVER SHEET
C1	EXISTING CONDITIONS PLAN
C2	SITE PLAN
E1	EROSION AND SEDIMENT CONTROL DETAILS



LOCUS MAP
SCALE 1" = 2000'

PERMITS

TYPE OF PERMIT	STATUS
CONDITIONAL USE PERMIT: CITY OF DOVER, NH 288 CENTRAL AVENUE DOVER, NEW HAMPSHIRE 03820 (603) 516-6008 RESPONSIBLE CONSULTANT- JONES & BEACH ENGINEERS, INC.	SUBMITTED: 02/02/2022 APPROVAL DATE: FILE NO.:
NHDES WETLAND PERMIT: NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES- WETLANDS BUREAU 29 HAZEN DRIVE, P.O. BOX 95 CONCORD, NEW HAMPSHIRE 03302 (603) 271-2147 RESPONSIBLE CONSULTANT- JONES & BEACH ENGINEERS, INC.	SUBMITTED: PERMIT NO. DATED: EXPIRATION:
NHDES SHORELAND PERMIT: NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES- WATER DIVISION/SHORELAND PROGRAM 29 HAZEN DRIVE, P.O. BOX 95 CONCORD, NEW HAMPSHIRE 03302 (603) 271-2147 RESPONSIBLE CONSULTANT- JONES & BEACH ENGINEERS, INC.	SUBMITTED: PERMIT NO. DATED: EXPIRATION:

GENERAL LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINES
		SETBACK LINES
		CENTERLINE
		FRESHWATER WETLANDS LINE
		TIDAL WETLANDS LINE
		STREAM CHANNEL
		TREE LINE
		STONEWALL
		BARBED WIRE
		FENCE
		STOCKADE FENCE
		AQUIFER PROTECTION LINE
		FLOOD PLAIN LINE
		ZONELINE
		EASEMENT
		MAJOR CONTOUR
		MINOR CONTOUR
		EDGE OF PAVEMENT
VGC	VGC	VERTICAL GRANITE CURB
SGC	SGC	SLOPE GRANITE CURB
CCB	CCB	CAPE COD BERM
X	X	SILT FENCE
D	D	DRAINAGE LINE
S	S	SEWER LINE
G	G	GAS LINE
W	W	WATER LINE
WS	WS	WATER SERVICE
OHE	OHE	OVERHEAD ELECTRIC
UGE	UGE	UNDERGROUND ELECTRIC
		IRON PIPE/IRON ROD
		DRILL HOLE
		IRON ROD/DRILL HOLE
		STONE/GRANITE BOUND
		BENCHMARK (TBM)
		DOUBLE POST SIGN
		SINGLE POST SIGN
W	W	WELL
1		PHOTO LOCATION
		TREES AND BUSHES
		UTILITY POLE
D	D	DRAIN MANHOLE
S	S	SEWER MANHOLE
		HYDRANT
		WATER GATE
		WATER SHUT OFF
D		SINGLE GRATE CATCH BASIN
		CULVERT W/WINGWALLS
		WETLAND IMPACT
		RIPRAP
		FRESHWATER WETLANDS
		TIDAL WETLANDS
		CONCRETE
		GRAVEL

APPLICANT / OWNER
TODD R. DIGGINS & KRYSTIN M. WARD
3 WENTWORTH TERRACE
DOVER, NH 03820

CIVIL ENGINEER / SURVEYOR
JONES & BEACH ENGINEERS, INC.
85 PORTSMOUTH AVENUE
PO BOX 219
STRATHAM, NH 03885
(603) 772-4746
CONTACT: BARRY W. GIER, PE
EMAIL: BGIER@JONESANDBEACH.COM

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PO BOX 219
STRATHAM, NH 03885
(603) 772-4746
CONTACT: CHRISTOPHER ALBERT

ELECTRIC
EVERSOURCE
74 OLD DOVER ROAD
ROCHESTER, NH 03867
(603) 332-4227

TELEPHONE
FAIRPOINT COMMUNICATIONS
100 TRI CITY ROAD
SOMERWORTH, NH 03878
ATTN:DAVE KESTNER
(603) 743-1114

CABLE TV
COMCAST COMMUNICATION CORPORATION
334-B CALEF HIGHWAY
EPPING, NH 03042-2325
(603) 679-5695

PROJECT PARCEL
TOWN OF DOVER
TAX MAP 8, LOT 32

APPLICANT/OWNER
TODD R. DIGGINS & KRYSTIN M. WARD
3 WENTWORTH TERRACE
DOVER, NH 03820
BK 4829, PG 938

TOTAL LOT AREA
77,000± SQ. FT.
1.77± ACRES

DOVER PLANNING FILE NO.: xxxxx

Design: BWG	Draft: BWG	Date: 01/26/22
Checked: BWG	Scale: AS NOTED	Project No.: 21069
Drawing Name: 21069-DESIGN.dwg		

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.

REV.	DATE	REVISION	BY
0	01/26/22	ISSUED FOR REVIEW	BWG

Designed and Produced in NH
J/B Jones & Beach Engineers, Inc.
85 Portsmouth Ave. PO Box 219 Stratham, NH 03885
Civil Engineering Services
603-772-4746 FAX: 603-772-0227 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	COVER SHEET
Project:	TAX MAP 8, LOT 32 3 WENTWORTH TERRACE, DOVER, NH
Owner of Record:	TODD R. DIGGINS & KRYSTIN M. WARD 3 WENTWORTH TERRACE, DOVER, NEW HAMPSHIRE 03820

DRAWING No.
CS
SHEET 1 OF 4
JBE PROJECT NO. 21069

3 WENTWORTH TERRACE, DOVER, NH
JBE # 21069 REVISION 2, 12/06/2017

PLAN REFERENCES

1. "LOT LINE ADJUSTMENT PLAN, 1 & 3 WENTWORTH TERRACE, DOVER, NEW HAMPSHIRE, ASSESSOR'S PARCELS 8–31 & 8–32, FOR BRIAN D. SHORT & MARY ANN HEMMING SHORT." DATED MARCH 1, 2012. SCALE 1" = 30'. PREPARED BY JAMES VERRA AND ASSOCIATES. S.C.R.D. 103–68.
2. "CONDOMINIUM SITE & FLOOR PLAN, 3 WENTWORTH TERRACE CONDOMINIUM, 3 WENTWORTH TERRACE, DOVER, NEW HAMPSHIRE. ASSESSOR'S PARCEL 8–32, FOR BRIAN D. SHORT & MARY ANN HEMMING SHORT." DATED FEBRUARY 9, 2016. SCALE 1" = 30'. PREPARED BY JAMES VERRA AND ASSOCIATES. S.C.R.D. 111–009.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

NH GRID

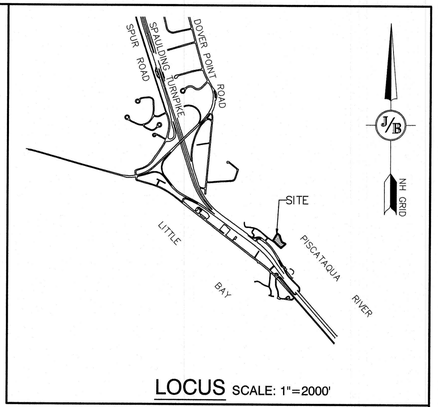
LEGEND

- PROPERTY LINE
- ABUTTER LINES
- MAJOR CONTOUR
- MINOR CONTOUR
- WETLAND BOUNDARY & HIGHEST OBSERVABLE TIDE LINE
- FLOOD ZONE BOUNDARY
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- CHAIN LINK FENCE
- PHOTO LOCATION

PROJECT PARCEL
TOWN OF DOVER
TAX MAP 8, LOT 32

APPLICANT/OWNER
TODD R. DIGGINS & KRYSTIN M. WARD
3 WENTWORTH TERRACE
DOVER, NH 03820
BK 4829, PG 938

TOTAL LOT AREA
77,000± SQ. FT.
1.77± ACRES



LOCUS SCALE: 1"=2000'

PISCATAQUA RIVER
(TIDAL)

N37°50'56"W 349.09' (SURVEY TIE COURSE)

N31°09'56"E 10.00'
IP FND 5/8" 4.5' HIGH
50' FROM REFERENCE LINE DOVER CONSERVATION DISTRICT WATERFRONT BUFFER PRIMARY STRUCTURE SETBACK
100' FROM REFERENCE LINE DOVER CONSERVATION DISTRICT
150' FROM REFERENCE LINE NATURAL WOODLAND BUFFER
250' FROM REFERENCE LINE SHORELAND WATER QUALITY PROTECTION DISTRICT
SCRUB–SHRUB LINE
WALKWAY TO WATER
PAVER PATIO
CONCRETE PAD
SHED
EXISTING HOUSE 1,050 SQ. FT. ± FF=23.5
BND FND 4"X4" .01' DOWN
IP FND 1/2" 0.2' HIGH
SCRUB–SHRUB LINE
FEMA FLOODZONE LINE
IR FND VERRA 0.2' TALL
EBB
EBB
LAWN
PAVED DRIVE
LAWN
20' SETBACK
75' STRUCTURE SETBACK
30' SETBACK
20' SETBACK
N20°00'03"E 90.00'
N50°51'19"W 67.37'
N44°41'04"W 111.07'
S57°11'04"E 114.76'
IR FND VERRA 0.1' DOWN
IR FND VERRA FLUSH
MAILBOX (TYP.)
WENTWORTH TERRACE
(PRIVATE)
N 39°25'56" E 25.13'
N 44°41'04" W 105.37'
IR FND VERRA
IR FND 5/8" 0.1' DOWN
TBM 'B' NAIL IN POLE ELEV=16.74
SMH 2135 RIM=11.35 INVin=4.48 – 8" PVC (SE) INVout=4.59 – 8" PVC (NW)
IP FND 1/2"
IR FND 5/8" 0.1' TALL
SMH 2134 RIM=15.46 INVout=9.11 – 8" PVC (NW)
BND FND 9"X9" 2.8' TALL WITH DRILL HOLE
"NOT A THRU WAY"
TBM 'A' X–CUT ON HYDRANT BOLT ELEV=13.79
BND FND LEANING
GARAGE
LIMITED ACCESS RIGHT OF WAY
LIMITED ACCESS RIGHT OF WAY
HILTON DRIVE

TAX MAP 8 LOT 33
BRENDAN JOHN FEE & JANET VAUGHAN FEE
7 WENTWORTH TERR.
DOVER, NH 03820
BK 4522 PG 86

TAX MAP 8 LOT 34A
M. MCELLEN, LLC
8 WENTWORTH TERRACE
DOVER, NH 03820
BK 4915 PG 417

TAX MAP 8
LOT 32
(UNIT #1)
(44,352 SQ.FT.)

TAX MAP 8
LOT 32
(UNIT #2)
(31,816 SQ.FT.)
STEVEN E & MANDY HUFF
441 BARACKET ROAD
RYE, NH 03870
BK 4639 PG 766

TAX MAP 8 LOT 31
MARK E. JOHNSTONE 2014 TRUST
MARK E. JOHNSTONE, TRUSTEE
1 WENTWORTH TERRACE
DOVER, NH 03820
BK 4848 PG 1031

NOTES:

1. THEN INTENT OF THIS PLAN IS TO SHOW THE EXISTING CONDITIONS OF UNIT 1, 3 WENTWORTH TERRACE CONDOINIUM, DOVER TAX MAP 8 LOT 32.
2. ZONING DISTRICT: R–20 (RIVERFRONT RESIDENTIAL OVERLAY DISTRICT)
   LOT AREA MINIMUM = 60,000 SF
   LOT FRONTAGE MINIMUM = 125'
   SHORELAND FRONTAGE MINIMUM = 150'
   BUILDING SETBACKS (MINIMUM):
   FRONT SETBACK = '
   SIDE SETBACK = 20'
   REAR SETBACK = 30'
   WETLAND BUFFER = 50'

   OVERLAY DISTRICTS:
   RIVERFRONT RESIDENTIAL OVERLAY DISTRICT
   WETLAND PROTECTION DISTRICT
   CONSERVATION DISTRICT
3. THE UTILITY LOCATIONS SHOWN HEREON WERE DETERMINED BY OBSERVED ABOVE GROUND EVIDENCE AND SHOULD BE CONSIDERED APPROXIMATE IN LOCATION ONLY. LOCATION, DEPTH, SIZE, TYPE, EXISTENCE OR NONEXISTENCE OF UNDERGROUND UTILITIES AND/OR UNDERGROUND STORAGE TANKS WAS NOT VERIFIED BY THIS SURVEY. ALL CONTRACTORS SHOULD NOTIFY IN WRITING ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES PRIOR TO ANY EXCAVATION WORK OR CALL DIG–SAFE AT 1–888–DIG–SAFE.
4. LOCATION, DEPTH, SIZE, TYPE, EXISTENCE OR NONEXISTENCE OF UNDERGROUND UTILITIES AND/OR UNDERGROUND STORAGE TANKS WAS NOT VERIFIED BY THIS SURVEY
5. A PORTION OF THE SUBJECT PARCEL IS LOCATED WITHIN AN AREA HAVING A ZONE "AE" DESIGNATION BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NO. 33017C0405E, WITH EFFECTIVE DATE OF SEPTEMBER 30, 2015, FOR COMMUNITY PANEL NO. 405 OF 405, IN STRAFFORD COUNTY, STATE OF NEW HAMPSHIRE, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR COMMUNITY IN WHICH SAID PREMISES IS SITUATED.
6. THE SUBJECT PARCEL IS LOCATED WITHIN THE STATE OF NEW HAMPSHIRE SHORELAND AND WATER QUALITY PROTECTION DISTRICT.
7. BASIS OF BEARING: HORIZONTAL NEW HAMPSHIRE STATE PLANE FEET, FIPS ZONE 2800, NAD 1983, PER PLAN REFERENCE 1. VERTICAL NAVD88.
8. CERTAIN DATA HEREON MAY VARY FROM RECORDED DATA DUE TO DIFFERENCES IN DECLINATION, ORIENTATION, AND METHODS OF MEASUREMENT.
9. ALL BOOK AND PAGE NUMBERS REFER TO THE STRAFFORD COUNTY REGISTRY OF DEEDS.
10. THE TAX MAP AND LOT NUMBERS ARE BASED ON THE CITY OF DOVER TAX RECORDS AND ARE SUBJECT TO CHANGE.
11. RESEARCH WAS PERFORMED AT THE CITY OF DOVER ASSESSORS OFFICE, THE STRAFFORD COUNTY REGISTRY OF DEEDS, AND THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION.
12. THIS SURVEY IS NOT A CERTIFICATION TO OWNERSHIP OR TITLE OF LANDS SHOWN. OWNERSHIP AND ENCUMBRANCES ARE MATTERS OF TITLE EXAMINATION NOT OF A BOUNDARY SURVEY. THE INTENT OF THIS PLAN IS TO RETRACE THE BOUNDARY LINES OF DEED'S REFERENCED HEREON. OWNERSHIP OF ADJOINING PROPERTIES IS ACCORDING TO ASSESSOR'S RECORDS. THIS PLAN MAY OR MAY NOT INDICATE ALL ENCUMBRANCES EXPRESSED, IMPLIED OR PRESCRIPTIVE.
13. ANY USE OF THIS PLAN AND OR ACCOMPANYING DESCRIPTIONS SHOULD BE DONE WITH LEGAL COUNSEL, TO BE CERTAIN THAT TITLES ARE CLEAR, THAT INFORMATION IS CURRENT, AND THAT ANY NECESSARY CERTIFICATES ARE IN PLACE FOR A PARTICULAR CONVEYANCE, OR OTHER USES.
14. THE LIMITS OF JURISDICTIONAL WETLANDS WERE DELINEATED BY CHRISTOPHER S. ALBERT OF JONES AND BEACH ENGINEERS, INC. IN JULY 2017 IN ACCORDANCE WITH THE FOLLOWING GUIDANCE DOCUMENTS:
   A. THE CORPS OF ENGINEERS FEDERAL MANUAL FOR IDENTIFYING AND DELINEATING JURISDICTIONAL WETLANDS.
   B. THE NORTH CENTRAL & NORTHEAST REGIONAL SUPPLEMENT TO THE FEDERAL MANUAL.
   C. THE CURRENT VERSION OF THE FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, AS PUBLISHED BY THE NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION AND/OR THE CURRENT VERSION OF THE FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, AS PUBLISHED BY THE USDA, NRCS, AS APPROPRIATE.
   D. THE CURRENT NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS, AS PUBLISHED BY THE US FISH AND WILDLIFE SERVICE.
15. HIGHEST OBSERVABLE TIDE LINE DELINEATED BY CHRISTOPHER S. ALBERT OF JONES AND BEACH ENGINEERS, INC. IN JULY 2017
16. THIS PLAN IS THE RESULT OF A CLOSED TRAVERSE WITH A RAW, UNADJUSTED LINEAR ERROR OF CLOSURE GREATER THAN 1 IN 40,000.
17. APPROXIMATE HIGH WATER LINE IS INDICATED AS BOUNDARY ON RECORD PLAN. APPROXIMATE LOW WATER LINE AT ELEVATION 0 LOCATED ON JULY 7, 2017.
18. TOPOGRAPHIC SURVEY PERFORMED BY JONES & BEACH ENGINEERS, INC. IN JULY, 2017.

CERTIFICATION:

PURSUANT TO RSA 676:18–III AND RSA 672:14

I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN.

I CERTIFY THAT THIS PLAT WAS PREPARED UNDER MY DIRECT SUPERVISION, THAT IT IS THE RESULT OF A FIELD SURVEY BY THIS OFFICE AND HAS AN UNADJUSTED LINEAR ERROR OF CLOSURE THAT EXCEED BOTH THE MINIMUM OF 1:10,000 AS DEFINED IN SECTION 503.04 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES AND THE MINIMUM OF 1:15,000 AS DEFINED IN SECTION 4.2 OF THE N.H.L.S.A. ETHICS AND STANDARDS.

STATE OF NEW HAMPSHIRE — No. 892 DAVID M. COLLIER — LICENSED LAND SURVEYOR
SIGNATURE

DAVID M. COLLIER, LLS 892 DATE:
ON BEHALF OF JONES & BEACH ENGINEERS, INC.

DOVER PLANNING FILE NO.:

Design: BWG	Draft: GAP
Checked: BWG	Scale: 1" = 20'
Drawing Name: 21069-EX-CONDITIONS.DWG	Date: 1/21/22
	Project No.: 21069

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REV.	DATE	REVISION	BY
2	---	REVISED PER	---
1	---	REVISED PER	---
0	2/02/22	ISSUED FOR REVIEW	BWG

Designed and Produced in NH
J/B Jones & Beach Engineers, Inc.
85 Portsmouth Ave. PO Box 219 Stratham, NH 03885
Civil Engineering Services
603-772-4746 FAX: 603-772-0227 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: EXISTING CONDITIONS PLAN
Project: TAX MAP 8 LOT 32 3 WENTWORTH TERRACE, DOVER, NEW HAMPSHIRE
Owner of Record: TODD R. DIGGINS & KRYSTIN M. WARD 3 WENTWORTH TERRACE, DOVER, NEW HAMPSHIRE 03820

DRAWING No. C1
SHEET 2 OF 2
JBE PROJECT NO. 21069

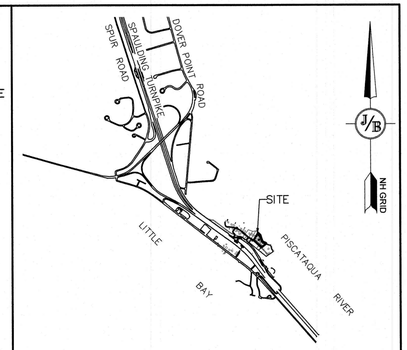
GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

GENERAL LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINES
		SETBACK LINES
		FRESHWATER WETLANDS LINE
		TIDAL WETLANDS LINE
		TREE LINE
		STONEWALL
		BARBED WIRE
		FENCE
		FLOOD PLAIN LINE
		EASEMENT
		MAJOR CONTOUR
		MINOR CONTOUR
		EDGE OF PAVEMENT
X	X	SILT FENCE
D		DRAINAGE LINE
S	S	SEWER LINE
W	W	WATER LINE
OHE	OHE	OVERHEAD ELECTRIC
		IRON PIPE/IRON ROD
		DRILL HOLE
		IRON ROD/DRILL HOLE
		STONE/GRANITE BOUND
		BENCHMARK (TBM)
1		PHOTO LOCATION



LOCUS SCALE: 1"=2000'

PISCATAQUA RIVER
(TIDAL)

FEMA FLOODZONE LINE

N31°09'56"E
10.00'

50' FROM REFERENCE LINE DOVER CONSERVATION DISTRICT WATERFRONT BUFFER PRIMARY STRUCTURE SETBACK

150' FROM REFERENCE LINE NATURAL WOODLAND BUFFER

EX. SCRUB SHRUB LINE

20' SETBACK

N37°50'56"W

349.09' (SURVEY TIE COURSE)

50.40'

48.89'

PATIO +22.00

PROP. ADDITION
957 SQ.FT.

EX. HOUSE
1,050 SQ.FT.

LAWN

INSTALL AQUA-BRIC POROUS PAVERS, AS MANUFACTURED BY IDEAL CONCRETE BLOCK CO., INC. ELEV.=22.00.

EX. SCRUB SHRUB LINE

FEMA FLOODZONE LINE

SCRUB-SHRUB LINE

114.00'

IR FND VERRA EXPOSED 3"

75' STRUCTURE SETBACK

100' FROM REFERENCE LINE CONSERVATION DISTRICT

TAX MAP 8 LOT 33
BRENDAN JOHN FEE &
JANET VAUGHAN FEE
7 WENTWORTH TERR.
DOVER, NH 03820
BK 4522 PG 86

3.95'
S61°11'E
18.51'

20' SETBACK

250' FROM REFERENCE LINE SHORELAND WATER QUALITY PROTECTION DISTRICT

PROPOSED HOUSE
2,007 S.F. FOOTPRINT
F.F.=23.5

SILT FENCE

INSTALL AQUA-BRIC POROUS PAVERS, (SEE DTL. SHT. E1).

TAX MAP 8
LOT 32
(UNIT #1)
(44,352 SQ.FT.)

LAWN

TAX MAP 8 LOT 31
MARK E. JOHNSTONE 2014 TRUST
MARK E. JOHNSTONE, TRUSTEE
1 WENTWORTH TERRACE
DOVER, NH 03820
BK 4848 PG 1031

N20°00'03"E
90.00'

20' SETBACK

LAWN

PAVER DRIVEWAY

SMH 2135
RIM=11.35
INVin=4.48 - 8" PVC (SE)
INVout=4.39 - 8" PVC (NW)

N50°51'19"W
67.37'

SMH 2134
RIM=15.46
INVout=9.11 - 8" PVC (NW)

30' SETBACK

20' SETBACK

S57°11'04"E
114.76'

IR FND VERRA 0.1' DOWN

20' SETBACK

N44°41'04"W
111.07'

IR FND VERRA FLUSH

MAILBOX (TYP.)

WENTWORTH TERRACE
(PRIVATE)

PAVED DRIVEWAY

VCC

LAWN

N 73°24'56" E
25.13'

TBM 'B'
NAIL IN POLE
ELEV=16.74

IR FND VERRA

N 44°41'04" W
105.37'

IR FND 5/8" 0.1' DOWN

WENTWORTH TERRACE
(PRIVATE)

20' SETBACK

N 50°00'03" E
83.22'

TAX MAP 8 LOT 34A
M. MCELLEN, LLC
8 WENTWORTH TERRACE
DOVER, NH 03820
BK 4915 PG 417

TAX MAP 8
LOT 32
(UNIT #2)
(31,816 SQ.FT.)
STEVEN E & MANDY HUFF
441 BARACKET ROAD
RYE, NH 03870
BK 4639 PG 766

(SE)
(SE)
(SW)
(NW)

UP PSNH 57/KA/93.41 WMR CNDT

SITE NOTES:

1. THE INTENT OF THIS PLAN IS TO DEPICT THE PROPOSED EXPANSION OF THE EXISTING HOME ON EXISTING LOT OF RECORD CITY OF DOVER TAX MAP 8, LOT 3 – UNIT #1 TO INCLUDE AN ACCESSORY DWELLING UNIT.

2. ZONING DISTRICT: R-20
   LOT AREA MINIMUM = 60,000 SF (RIVERFRONT RESIDENTIAL OVERLAY)
   LOT FRONTAGE MINIMUM = 125'
   BUILD TO LINE: 20' MIN., 35' MAX.
   BUILDING SETBACKS (MINIMUM):
   SIDE SETBACK = 20'
   REAR SETBACK = 30
   WETLAND SETBACK = 50
   MAX. BUILDING HEIGHT = 35'
   MAX. LOT COVERAGE = 30%
   PROP. LOT COVERAGE = 8.5%

3. STATE PERMITS:
   NHDES SHORELAND PERMIT NO.
   NHDES WETLANDS BUREAU PERMIT NO.

4. THIS PLAN SET HAS BEEN PREPARED BY JONES & BEACH ENGINEERS, INC., FOR MUNICIPAL AND STATE APPROVALS AND FOR CONSTRUCTION BASED ON DATA OBTAINED FROM ON-SITE FIELD SURVEY AND EXISTING MUNICIPAL RECORDS. THROUGHOUT THE CONSTRUCTION PROCESS, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY OF ANY FIELD DISCREPANCY FROM DATA AS SHOWN ON THE DESIGN PLANS, INCLUDING ANY UNFORESEEN CONDITIONS, SUBSURFACE OR OTHERWISE, FOR EVALUATION AND RECOMMENDATIONS. ANY CONTRADICTION BETWEEN ITEMS ON THIS PLAN/PLAN SET, OR BETWEEN THE PLANS AND ON-SITE CONDITIONS, MUST BE RESOLVED BEFORE RELATED CONSTRUCTION HAS BEEN INITIATED. CONTRACTOR TO ALWAYS CONTACT DIG SAFE PRIOR TO DIGGING ONSITE OR OFFSITE TO ENSURE SAFETY AND OBEY THE LAW.

5. ALL CONSTRUCTION SHALL CONFORM TO CITY STANDARDS AND REGULATIONS, AND NHDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, WHICHEVER IS MORE STRINGENT.

6. A PORTION OF THE SUBJECT PARCEL IS LOCATED WITHIN AN AREA HAVING A ZONE "AE" DESIGNATION BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NO. 33017C0405E, WITH EFFECTIVE DATE OF SEPTEMBER 30, 2015, FOR COMMUNITY PANEL NO. 405 OF 405, IN STRAFFORD COUNTY, STATE OF NEW HAMPSHIRE, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR COMMUNITY IN WHICH SAID PREMISES IS SITUATED.

7. LANDOWNERS ARE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL WETLAND REGULATIONS, INCLUDING PERMITTING REQUIRED UNDER THESE REGULATIONS.

8. ALL BUILDING DIMENSIONS SHALL BE VERIFIED WITH THE ARCHITECTURAL AND STRUCTURAL PLANS PROVIDED BY THE OWNER. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND OWNER PRIOR TO THE START OF CONSTRUCTION. BUILDING DIMENSIONS AND AREAS TO BE TO OUTSIDE OF MASONRY, UNLESS OTHERWISE NOTED.

9. SITE INFORMATION:
   PROPOSED DISTURBANCE WITHIN CONSERVATION DISTRICT= 3,966 SQ.FT.

   EXISTING IMPERVIOUS (UNIT #1) = 3,535 SQ.FT.
   PROPOSED IMPERVIOUS (UNIT #1) = 2,222 SQ.FT.

   EXISTING IMPERVIOUS WITHIN CONSERVATION DISTRICT (UNIT #1) = 3,037 SQ.FT.
   PROPOSED IMPERVIOUS WITHIN CONSERVATION DISTRICT (UNIT #1) = 2,222 SQ.FT.

10. LOT TO BE SERVICED BY MUNICIPAL WATER AND SEWER.

11. THE LIMITS OF CONSTRUCTION DISTURBANCE THAT ARE LOCATED IN OR WITHIN THE 50' CONSERVATION AND WETLAND DISTRICTS SHALL BE STAKED, FLAGGED, AND CLEARLY IDENTIFIED PRIOR TO ANY EARTH DISTURBING ACTIVITY OCCURS.

12. LETTER OF CREDIT FOR THE COST OF REVEGETATING ALL DISTURBED AREAS ON THE SITE AND APPROVED CONSTRUCTION SIGN SHALL BE IN PLACE PRIOR TO ANY EARTH DISTURBING ACTIVITY.

13. A VARIANCE WAS GRANTED BY THE DOVER ZONING BOARD OF ADJUSTMENTS ON 10/19/17 TO SECTION 170-12.B OF THE DOVER ZONING ORDINANCE TO ALLOW A FRONT SETBACK OF APPROXIMATELY 48.77', WHERE A BUILD TO LINE OF 20' MIN. AND 35' MAX. IS REQUIRED.

PROJECT PARCEL
TOWN OF DOVER
TAX MAP 8, LOT 32

APPLICANT/OWNER
TODD R. DIGGINS & KRYSTIN M. WARD
3 WENTWORTH TERRACE
DOVER, NH 03820
BK 4829, PG 938

TOTAL LOT AREA
77,000± SQ. FT.
1.77± ACRES

DOVER PLANNING FILE NO.: XXXXX

Design: BWG	Draft: BWG
Checked: BWG	Scale: 1"=20'
Drawing Name: 21069-DESIGN.dwg	

Date: 01/26/22
Project No.: 21069

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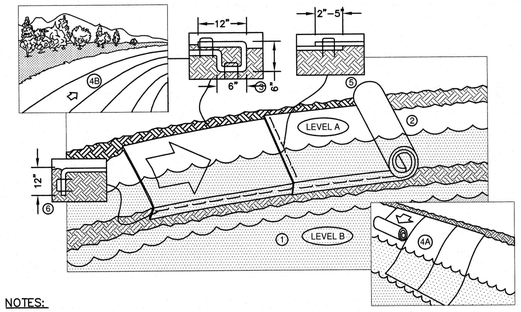
Civil Engineering Services
85 Portsmouth Ave.
PO Box 219
Stratham, NH 03885
603-772-4746
FAX: 603-772-0227
E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: SITE PLAN
Project: TAX MAP 8, LOT 32
3 WENTWORTH TERRACE, DOVER, NH
Owner of Record: TODD R. DIGGINS & KRYSTIN M. WARD
3 WENTWORTH TERRACE, DOVER, NEW HAMPSHIRE 03820

DRAWING No.
C2
SHEET 3 OF 4
JBE PROJECT NO. 21069

TEMPORARY EROSION CONTROL NOTES

1. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME. AT NO TIME SHALL AN AREA IN EXCESS OF 5 ACRES BE EXPOSED AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.
2. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS REQUIRED, DIRECTED BY THE ENGINEER.
3. ALL DISTURBED AREAS (INCLUDING POND AREAS BELOW THE PROPOSED WATERLINE) SHALL BE RETURNED TO PROPOSED GRADES AND ELEVATIONS. DISTURBED AREAS SHALL BE LOAMED WITH A MINIMUM OF 6" OF SCREENED ORGANIC LOAM AND SEEDED WITH SEED MIXTURE 'C' AT A RATE NOT LESS THAN 1.10 POUNDS OF SEED PER 1,000 S.F. OF AREA (48 LBS. / ACRE).
4. SILT FENCES AND OTHER BARRIERS SHALL BE INSPECTED EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 0.25" OR GREATER. ALL DAMAGED AREAS SHALL BE REPAIRED, AND SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED OF.
5. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VEGETATED.
6. AREAS MUST BE SEEDED AND MULCHED OR OTHERWISE PERMANENTLY STABILIZED WITHIN 3 DAYS OF FINAL GRADING, OR TEMPORARILY STABILIZED WITHIN 14 DAYS OF THE INITIAL DISTURBANCE OF SOIL. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
7. ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING NORTH AMERICAN GREEN S75 EROSION CONTROL BLANKETS (OR AN EQUIVALENT APPROVED IN WRITING BY THE ENGINEER) ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
8. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
9. AFTER NOVEMBER 15th, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3" OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.
10. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
    a. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
    b. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
    c. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH STONE OR RIPRAP HAS BEEN INSTALLED; OR
    d. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
11. FUGITIVE DUST CONTROL IS REQUIRED TO BE CONTROLLED IN ACCORDANCE WITH ENV-A 1000, AND THE PROJECT IS TO MEET THE REQUIREMENTS AND INTENT OF RSA 430:53 AND AGR 3800 RELATIVE TO INVASIVE SPECIES.



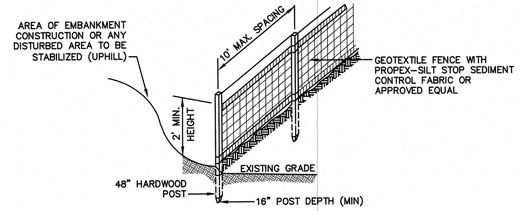
NOTES:

1. FOR EASIER INSTALLATION, LOWER WATER FROM LEVEL A TO LEVEL B BEFORE INSTALLATION.
2. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED, DO NOT SEED
3. BEGIN AT THE TOP OF THE SHORELINE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
4. ROLL BLANKETS EITHER (A) DOWN THE SHORELINE FOR LONG BANKS (TOP TO BOTTOM) OR (B) HORIZONTALLY ACROSS THE SHORELINE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM™ , STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
5. THE EDGES OF ALL HORIZONTAL AND VERTICAL BLANKET SEAMS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP. TO ENSURE PROPER SEAM ALIGNMENT BETWEEN ADJACENT BLANKETS, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH™ ON THE PREVIOUSLY INSTALLED BLANKET. SECURE ALL OVERLAPS WITH STAPLES SPACED 12" APART. NOTE: SEAM OVERLAP SHOULD BE SHINGLED ACCORDING TO PREDOMINANT EROSIVE ACTION.
6. THE EDGE OF THE BLANKET AT OR BELOW NORMAL WATER LEVEL MUST BE ANCHORED BY PLACING THE BLANKET IN A 12" DEEP BY 6" WIDE ANCHOR TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART IN THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING WITH STONE OR SOIL. NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

NORTH AMERICAN GREEN
14649 HIGHWAY 41 NORTH
EVANSVILLE, INDIANA 47725
1-800-772-2040

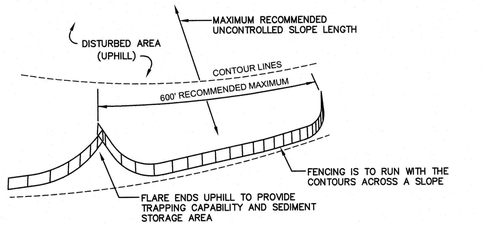
EROSION CONTROL BLANKET SHORELINE INSTALLATION (North American Green)

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS:

1. WOVEN FABRIC FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. FILTER CLOTH SHALL BE FASTENED TO WOVEN WIRE EVERY 24" AT TOP, MID AND BOTTOM AND EMBEDDED IN THE GROUND A MINIMUM OF 8" AND THEN COVERED WITH SOIL.
2. THE FENCE POSTS SHALL BE A MINIMUM OF 48" LONG, SPACED A MAXIMUM 10' APART, AND DRIVEN A MINIMUM OF 16" INTO THE GROUND.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THE ENDS OF THE FABRIC SHALL BE OVERLAPPED 6", FOLDED AND STAPLED TO PREVENT SEDIMENT FROM BY-PASSING.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED AND PROPERLY DISPOSED OF WHEN IT IS 6" DEEP OR VISIBLE 'BULGES' DEVELOP IN THE SILT FENCE.
5. PLACE THE ENDS OF THE SILT FENCE UP CONTOUR TO PROVIDE FOR SEDIMENT STORAGE.



6. SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED AS DIRECTED BY THE ENGINEER. THE AREA DISTURBED BY THE REMOVAL SHALL BE SMOOTHED AND REVEGETATED.

MAINTENANCE:

1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE DONE IMMEDIATELY.
2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.
4. SEDIMENT DEPOSITS THAT ARE REMOVED, OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED, SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

SILT FENCE

NOT TO SCALE

SEEDING SPECIFICATIONS

1. GRADING AND SHAPING
A. SLOPES SHALL NOT BE STEEPER THAN 2:1 WITHOUT APPROPRIATE EROSION CONTROL MEASURES AS SPECIFIED ON THE PLANS (3:1 SLOPES OR FLATTER ARE PREFERRED).
B. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.

2. SEEDBED PREPARATION
A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
B. STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDBED AND FERTILIZER AND LIME MIXED INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.

3. ESTABLISHING A STAND
A. LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. TYPES AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED:
AGRICULTURAL LIMESTONE, 2 TONS PER ACRE OR 100 LBS. PER 1,000 SQ.FT.
NITROGEN(N), 50 LBS. PER ACRE OR 1.1 LBS. PER 1,000 SQ.FT.
PHOSPHATE(P2O5), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ.FT.
POTASH(K2O), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ.FT.
(NOTE: THIS IS THE EQUIVALENT OF 500 LBS. PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS. PER ACRE OF 5-10-10.)
B. SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH .25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.
C. REFER TO THE 'SEEDING GUIDE' AND 'SEEDING RATES' TABLES ON THIS SHEET FOR APPROPRIATE SEED MIXTURES AND RATES OF SEEDING. ALL LEGUMES (CROWNVETCH, BIRDSFOOT, TREFOIL AND FLATPEA) MUST BE INOCULATED WITH THEIR SPECIFIC INOCULANT PRIOR TO THEIR INTRODUCTION TO THE SITE.
D. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20th OR FROM AUGUST 10th TO SEPTEMBER 1st.

4. MULCH
A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.
B. MULCH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE FOR MULCHING. HAY OR STRAW MULCH SHALL BE PLACED AT A RATE OF 90 LBS PER 1000 S.F.

5. MAINTENANCE TO ESTABLISH A STAND
A. PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH.
B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ONSITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIALS TAKE 2 TO 3 YEARS TO BECOME FULLY ESTABLISHED.
C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, ANNUAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.

USE	SEEDING MIXTURE 1/	DROUGHTY	WELL DRAINED	MODERATELY WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A	FAIR	GOOD	GOOD	FAIR
	B	POOR	GOOD	FAIR	FAIR
	C	POOR	GOOD	EXCELLENT	GOOD
	D	FAIR	EXCELLENT	EXCELLENT	POOR
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER.	A	GOOD	GOOD	GOOD	FAIR
	C	GOOD	EXCELLENT	EXCELLENT	FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY USE RECREATION SITES.	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	GOOD	FAIR	POOR
	C	GOOD	EXCELLENT	EXCELLENT	FAIR
PLAY AREAS AND ATHLETIC FIELDS. (TOPSOIL IS ESSENTIAL FOR GOOD TURF.)	E	FAIR	EXCELLENT	EXCELLENT	2/
	F	FAIR	EXCELLENT	EXCELLENT	2/

GRAVEL PIT, SEE NH-PM-24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND AND GRAVEL PITS.

1/ REFER TO SEEDING MIXTURES AND RATES IN TABLE BELOW.
2/ POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAYING AREA AND ATHLETIC FIELDS.

NOTE: TEMPORARY SEED MIX FOR STABILIZATION OF TURF SHALL BE WINTER RYE OR OATS AT A RATE OF 2.5 LBS. PER 1000 S.F. AND SHALL BE PLACED PRIOR TO OCTOBER 15th, IF PERMANENT SEEDING NOT YET COMPLETE.

SEEDING GUIDE

MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 Sq. Ft.
A. TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
RED TOP	2	0.05
TOTAL	42	0.95
B. TALL FESCUE	15	0.35
CREEPING RED FESCUE	10	0.25
CROWN VETCH	15	0.35
OR		
FLAT PEA	30	0.75
TOTAL	40 OR 55	0.95 OR 1.35
* C. TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
BIRDS FOOT TREFOIL	8	0.20
TOTAL	48	1.10
D. TALL FESCUE	20	0.45
FLAT PEA	30	0.75
TOTAL	50	1.20
E. CREEPING RED FESCUE 1/	50	1.15
KENTUCKY BLUEGRASS 1/	50	1.15
TOTAL	100	2.30
F. TALL FESCUE 1	150	3.60

1/ FOR HEAVY USE ATHLETIC FIELDS CONSULT THE UNIVERSITY OF NEW HAMPSHIRE COOPERATIVE EXTENSION TURF SPECIALIST FOR CURRENT VARIETIES AND SEEDING RATES.

SEEDING RATES

MAINTENANCE SPECIFICATIONS FOR ECO-PAVER OR INTERLOCKING CONCRETE PAVEMENT SYSTEMS

THE FOLLOWING RECOMMENDATIONS WILL HELP ASSURE THAT THE PAVERS ARE MAINTAINED TO PRESERVE ITS HYDROLOGIC EFFECTIVENESS.

WINTER MAINTENANCE:

1. SANDING FOR WINTER TRACTION IS PROHIBITED. DEICING IS PERMITTED (NaCl, $MgCl_2$, OR EQUIVALENT). REDUCED SALT APPLICATION OF 50% OVER TRADITIONAL PAVEMENT APPLICATION RATES. NONTOXIC, ORGANIC DEICERS, APPLIED EITHER AS BLENDED, MAGNESIUM CHLORIDE-BASED LIQUID PRODUCTS OR AS PRETREATED SALT, ARE PREFERABLE.
2. PLOWING IS ALLOWED, BLADE SHOULD BE SLIGHTLY RAISED (ALTHOUGH NOT NECESSARY, THIS WILL PREVENT PAVEMENT SCARING). ICE AND LIGHT SNOW ACCUMULATION ARE GENERALLY NOT AS PROBLEMATIC AS FOR STANDARD ASPHALT. SNOW WILL ACCUMULATE DURING HEAVIER STORMS AND SHOULD BE PLOWED AFTER 2 TO 4 INCHES OF SNOW ACCUMULATION.

ROUTINE MAINTENANCE:

1. PAVER SEAL COATING MUST BE ABSOLUTELY FORBIDDEN. SURFACE SEAL COATING IS NOT REVERSIBLE.
2. THE PAVEMENT SURFACE SHOULD BE VACUUMED 1 OR 2 TIMES PER YEAR, ESPECIALLY AFTER WINTER AND FALL SEASONS, AND AT ANY ADDITIONAL TIMES SEDIMENT IS SPILLED, ERODED, OR TRACKED ONTO THE SURFACE.
3. PLANTED AREAS ADJACENT TO PERVIOUS PAVEMENT SHOULD BE WELL MAINTAINED TO PREVENT SOIL WASHOUT ONTO THE PAVEMENT. IF ANY BARE SPOTS OR ERODED AREAS ARE OBSERVED WITHIN THE PLANTED AREAS, THEY SHOULD BE REPLANTED AND/OR STABILIZED AT ONCE.
4. IMMEDIATELY CLEAN ANY SOIL DEPOSITED ON PAVEMENT. SUPERFICIAL DIRT DOES NOT NECESSARILY CLOG THE PAVEMENT VOIDS. HOWEVER, DIRT THAT IS GROUND IN REPEATEDLY BY TIRES CAN LEAD TO CLOGGING. THEREFORE, TRUCKS OR OTHER HEAVY VEHICLES SHOULD BE PREVENTED FROM TRACKING OR SPILLING DIRT ONTO THE PAVEMENT.
5. DO NOT ALLOW CONSTRUCTION STAGING, SOIL/MULCH STORAGE, ETC. ON UNPROTECTED PAVER SURFACE
6. WRITTEN AND VERBAL COMMUNICATION TO THE POROUS PAVEMENT'S FUTURE OWNER SHOULD MAKE CLEAR THE PAVEMENT'S SPECIAL PURPOSE AND SPECIAL MAINTENANCE REQUIREMENTS SUCH AS THOSE LISTED HERE.

CONSTRUCTION SEQUENCE

1. WETLAND BOUNDARIES ARE TO BE CLEARLY MARKED PRIOR TO THE START OF CONSTRUCTION.
2. CUT AND REMOVE TREES IN CONSTRUCTION AREA AS REQUIRED OR DIRECTED.
3. INSTALL SILT FENCING PRIOR TO THE START OF CONSTRUCTION. THESE ARE TO BE MAINTAINED UNTIL THE FINAL PAVEMENT SURFACING AND LANDSCAPING AREAS ARE ESTABLISHED.
4. CLEAR, CUT, GRUB AND DISPOSE OF DEBRIS IN APPROVED FACILITIES. THIS INCLUDES ANY REQUIRED DEMOLITION OF EXISTING STRUCTURES, UTILITIES, ETC.
5. STRIP LOAM AND PAVEMENT. STABILIZE STOCKPILE AS NECESSARY.
6. PERFORM PRELIMINARY SITE GRADING IN ACCORDANCE WITH THE PLANS, INCLUDING THE CONSTRUCTION OF ANY RETAINING WALLS.
7. PREPARE BUILDING PAD TO ENABLE BUILDING CONSTRUCTION TO BEGIN.
8. INSTALL INLET PROTECTION AT ALL CATCH BASINS AS THEY ARE CONSTRUCTED IN ACCORDANCE WITH DETAILS.
9. DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINAGE DITCHES, CHECK DAMS, SEDIMENT TRAPS, ETC., TO PREVENT EROSION ON THE SITE AND PREVENT ANY SILTATION OF ABUTTING WATERS AND/OR PROPERTY.
10. PERFORM ALL REMAINING SITE CONSTRUCTION (i.e. BUILDING, CURBING, UTILITY CONNECTIONS, ETC.).
11. PERFORM FINAL FINE GRADING, INCLUDING PLACEMENT OF 'SELECT' SUBGRADE MATERIALS.
12. INSTALL DRIVEWAY.
13. LOAM AND SEED ALL DISTURBED AREAS AND INSTALL ANY REQUIRED SEDIMENT AND EROSION CONTROL FACILITIES (i.e. RIP RAP, EROSION CONTROL BLANKETS, ETC.).
14. ALL CUT AND FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
15. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
16. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE BEEN 75%-85% ESTABLISHED AND SITE IMPROVEMENTS ARE COMPLETE. SMOOTH AND RE-VEGETATE ALL DISTURBED AREAS.
17. CLEAN SITE AND ALL DRAINAGE STRUCTURES, PIPES AND SUMPS OF ALL SILT AND DEBRIS.
18. UPON COMPLETION OF CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY ANY RELEVANT PERMITTING AGENCIES THAT THE CONSTRUCTION HAS BEEN FINISHED IN A SATISFACTORY MANNER.

DOVER PLANNING FILE NO.: P17-57

Design: BWG	Draft: BWG	Date: 01/26/22	
Checked: BWG	Scale: AS NOTED	Project No.:21069	
Drawing Name: 21069-DESIGN.dwg			

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.

REV.	DATE	REVISION	BY
0	01/26/22	ISSUED FOR REVIEW	BWG

Designed and Produced in NH
Jones & Beach Engineers, Inc.
85 Portsmouth Ave.
PO Box 219
Stratham, NH 03885
Civil Engineering Services
603-772-4746
FAX: 603-772-0227
E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	EROSION AND SEDIMENT CONTROL DETAILS
Project:	TAX MAP 8, LOT 32 3 WENTWORTH TERRACE, DOVER, NH
Owner of Record:	TODD R. DIGGINS & KRYSTIN M. WARD 3 WENTWORTH TERRACE, DOVER, NEW HAMPSHIRE 03820

DRAWING No.
E1
SHEET 4 OF 4
JBE PROJECT NO. 21069

City of Dover, New Hampshire
CONDITIONAL USE PERMIT APPLICATION

[Revision Date: October 19, 2020]

Office Use Only	Project #:		Date Received:	
	Amount Paid:		Time Received:	

APPLICANT AND OWNER INFORMATION

Name of Applicant: Westfield, LLC Telephone # 603-749-2800

Address of Applicant: 340 Central Avenue, Suite 202 Dover, NH 03821

E-Mail Address: chad@summitlanddev.com

Name of Property Owner (if different from applicant): SAME Telephone #

Address of Property Owner: SAME

PROPERTY INFORMATION

Assessor's Map # G Lot(s) # 2

Address of Property: 64 Littleworth Road

Zoning District(s) CM Overlay District(s) Conservation District

Existing Use of Property: VACANT

CONDITIONAL USE PERMIT INFORMATION

Type of Conditional Use Permit (Check All That Apply):

☐ Conservation District	☐ RCM Use Overlay District	☐ Gateway District
☐ Groundwater Protection	☐ Off-Street Parking and Loading	☐ Alternative Treatment Center
☒ Wetland Protection District	☐ Central Business District	☐ Heritage Residential District

Describe Proposed Use or Activity That Requires Conditional Use Permit and Describe Any Impacts:

To allow for a wetland impact of 1,231 s.f. and associated wetland buffer impacts totalling 30,073 s.f. to intall a culvert and construct an entrance to the new lots and a road consisting of two cul-de-sacs.

List Any Associated State or Federal Permits That Have Been or Will Be Applied For and Indicate Their Status: NH DES Wetland Permit - submission to State is pending

Name of Professional That Prepared Plans: Kevin McEneaney, LLS- McEneaney Survey Associates

Address 24 Chestnut Street Dover, NH 03820 Telephone #: 603-742-0911

Professional License #: Kevin McEneaney, NH LLS 661 E-mail address: kevin@surveynh.com

SIGNATURES

I/We hereby submit this application to the City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity.

Signature of Property Owner: _____ Date: 3/21/22

Signature of Applicant (if different from owner): _____ Date: _____

Signature of Agent: _____ Date: 3/22/22

AUTHORIZATION TO ENTER SUBJECT PROPERTY

I, and my successors, hereby authorize members of the Dover Planning Board, Planning Department and other pertinent City Departments and boards to enter my property for the purpose of evaluating this application, including performing inspections during the application phase, post-approval phase, construction phase and occupancy phase. It is understood that these individuals must use all reasonable care, courtesy, and diligence when on the property.

Signature of Property Owner: _____ Date: 3/21/22

CIVILWORKS NEW ENGLAND

181 WATSON ROAD
P.O. BOX 1166
DOVER, NH 03821-1166
PHONE: 603.749.0443 FAX: 603.749.7348

April 29, 2022

Re: Wetland Bureau – Minimum Expedited Permit
Wetland Permit Application

Subject: Wetland Permit Application – Minimum Expedited Review
Tax Map G, Lot 2
NH Route 9 – Littleworth Road
Dover, NH 03821

Our Reference No. 18043

Dear NHDES Wetlands Bureau:

On behalf of, Westfield, LLC, we are pleased to submit (1) full size set of the attached Expedited Wetlands Permit plans and materials for wetland bureau consideration.

If you have any questions that we might be able to answer, please do not hesitate to contact our office.

Sincerely,

CIVILWORKS NEW ENGLAND

Stephen J Haight, PE

Project Narrative

PROJECT NARRATIVE
ACCOMPANYING MINIMUM EXPEDITED WETLANDS PERMIT
for
Westfield, LLC
NH Route 9 – Littleworth Road
Dover, NH 03820
Tax Map G, Lot 2

PROJECT OVERVIEW

The applicant, Westfield, LLC, is proposing to subdivide a 58.91 acre parcel into 3 lots with associated site improvements, such as, site access, public roadways, grading, stormwater mitigation, and utilities. The project proposes 1,231 square feet of wetlands impact (filling) for the installation of culverts and sewer connection. To minimize the unavoidable wetland impacts, the proposed roadway and culverts were designed in locations that minimize wetland impacts to the greatest extent practicable. No other jurisdictional areas or PRAs are impacted from the proposed development.

A NHB has been filed and the results showed recorded occurrences of Greater Fringed-Gentian (plant), Nuttall's Reed Grass (plant), New England Cottontail (vertebrate), Northern Black Racer (vertebrate), and the Spotted Turtle (vertebrate), near the proposed project area. Consultation with the New Hampshire Fish & Game about the protected species near the proposed project area has been conducted by Bag Land Consultants. A vernal pool survey was conducted by Bag Land Consultants on, August 5, 2021, and no primary/secondary vernal pool habitat was observed within 100 ft of the study area. During construction, erosion control measures will be implemented around the perimeter of the site to prevent any silt from construction washing into nearby waterways or from leaving the site.

The proposed project is in accordance with the property line setbacks (Env-Wt 307.13). The avoidance and minimization checklist (Env-Wt 311.07) (attached). This is not a standard application and therefore, Env-Wt 313.01, does not apply. Attached are the erosion control notes and construction sequence. The applicant will be responsible for maintaining the completed project.

The work will impact less than 3,000 square feet of the wetlands; therefore, the project is eligible for a Minimum Expedited (EXP) Wetlands Permit. Total impact to the wetlands on the east of the site is approximately 1,231 square feet. This application will require the acceptance of the Town of Dover's Conservation Commission and a conditional use permit from the Town of Dover's Planning Board.

PROJECT LOCATION AND SITE CHARACTERISTICS

The project is located on NH Route 9 (Littleworth Road), Dover, NH, 03820. According to the Town of Dover's Residential Property Record Card for map block No. G-2, the lot size is +/- 58.91 acres. The lot is bounded by Littleworth Road to the north, residential lots to the east and west, and railroad tracks to the south. The lot is a partially developed residential lot with Knox Marsh Brook flowing through the center of the parcel.

MIMIMUM IMPACT TYPE

The project involves alteration of less than 3,000 square feet in the wetlands located on the east side of the site. As verified using the Wetlands Permit Planning Tool (WPPT), the wetlands to be disturbed is not classified as Prime Wetlands or in a PRA. Therefore, this project is in conformance to the "Minimum Impact Projects" as described under Env-Wt 303.04, subject "(f)". Bruce A. Gilday C.W.S #088 delineated the wetlands on, August 5, 2021. The proposed disturbance to the wetland will be 1,231 square feet for the installation of culverts and sewer connection.

Wetlands Permit Application

Env-Wt 310.01
EXPEDITED MINIMUM IMPACT (EXP)
WETLANDS PERMIT APPLICATION
Water Division/Land Resources Management
Wetlands Bureau

Check the Status of your Application

RSA/Rule: RSA 482-A/Env-Wt 100-900

APPLICANT'S NAME: **Westfield, LLC** **TOWN NAME:** **Dover, NH**

Administrative Use Only	Administrative Use Only	Administrative Use Only	File No.:
			Check No.:
			Amount:
			Initials:

SECTION 1 - REQUIRED PLANNING FOR ALL PROJECTS (Env-Wt 306.05; Env-Wt 603.03; Env-Wt 603.05)

Please use the Wetland Permit Planning Tool (WPPT), the Natural Heritage Bureau (NHB) DataCheck Tool, the Aquatic Restoration Mapper, or other sources to assist in identifying key features such as: priority resource areas (PRAs), protected species or habitats, coastal areas, designated rivers, or designated prime wetlands.

Does the property contain a PRA? If yes, provide the following information:	☐ Yes ☒ No
• Does the project qualify for an Impact Classification Adjustment (e.g. NH Fish and Game Department (NHF&G) and NHB agreement for a classification downgrade) or a Project-Type Exception (e.g. Maintenance or Statutory Permit-by-Notification (SPN) project)? See Env-Wt 407.02 and Env-Wt 407.04).	☐ Yes ☐ No
• Protected species or habitat? o If yes, species or habitat name(s): Greater fringed-gentian, Nuttall's reed grass, New England Cottontail, Northern Black Racer, Spotted Turtle o NHB Project ID #: NHB22-1145	☒ Yes ☐ No
• Bog?	☐ Yes ☒ No
• Floodplain wetland contiguous to a tier 3 or higher watercourse?	☐ Yes ☒ No
• Designated prime wetland or duly-established 100-foot buffer?	☐ Yes ☒ No
• Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone?	☐ Yes ☒ No
Is the property within a Designated River corridor? If yes, provide the following information: • Name of Local River Management Advisory Committee (LAC): • A copy of the application was sent to the LAC on Month: Day: Year:	☐ Yes ☒ No
For dredging projects, is the subject property contaminated? • If yes, list contaminant(s):	☐ Yes ☒ No
Is there potential to impact impaired waters, class A waters, or outstanding resource waters?	☐ Yes ☒ No
For stream crossing projects, provide watershed size (see Wetland Permit Planning Tool or Stream Stats):	

N/A

SECTION 2 - ELIGIBILITY (Env-Wt 306.03; Env-Wt 310.01; Env-Wt 310.03)

You must confirm that your project meets **ALL** of the following statements to qualify for the EXP process:

- The project qualifies as minimum impact project (Env-Wt 306.03).
- The project does not include activities that are prohibited under RSA 482-A (Env-Wt 306.03(a)).
- The project does not include any work in a jurisdictional area that was started without first obtaining the applicable approval (Env-Wt 306.03(b)).
- No work has been done on the subject property pursuant to another EXP or a Statutory Permit-by-Notification (SPN) within 12 months of the date this EXP will be issued. Alternatively, if any work has been done on the subject property pursuant to another EXP or a SPN within 12 months of the date this EXP will be issued, then you are submitting information, including a plan, with this application demonstrating that:
  - The work proposed in this EXP application is wholly unrelated to and separate from the work already done under the EXP or SPN; and
  - The work proposed in this EXP application, when combined with work that has been done under previously issued EXPs or SPNs within the last 12 months, does not constitute a project for which a Standard Permit is required (Env-Wt 310.03(a)).
- If the project is located in a PRA, it also qualifies for an impact classification adjustment under Env-Wt 407.02 or a project-type exception (PTE) under Env-Wt 407.04 (Env-Wt 310.01(d)(6)).

☒ My project meets all statements above. Proceed to Section 3.

☐ My project does not meet all of the statements above. **Your project does not qualify for the EXP process. Your project either is not permittable or requires a Standard Permit.**

SECTION 3 - INFORMATION ON THE PROPOSED PROJECT (Env-Wt 310.01(c))

Identify the rule(s)/provision(s) which make the project a minimum impact project. Refer to the project list below and the Expedited Minimum Impact (EXP) Project Classification Guidance Document.

☐ Aquatic Vegetation Control Projects (Env-Wt 510.08(a))
☐ Water Access Structure Construction Projects (Env-Wt 511.06(a))
☐ Beach Replenishment Projects (Env-Wt 511.07(a))
☐ Deck or Patio Repair Projects (Env-Wt 511.08(a))
☐ Breakwater Maintenance and Repair Projects (Env-Wt 512.07(b))
☐ Docking and Accessory Docking Structure Construction, Repair, and Replacement Projects (Env-Wt 513.24(a))
☐ Docking Structure Modification Projects (Env-Wt 513.25(a))
☐ Accessory Docking Structure Installation, Construction, Modification, Repair, and Replacement Projects (Env-Wt 513.26(a))
☐ Canopy Projects (Env-Wt 513.27(a))
☐ Bank/Shoreline Stabilization Construction Projects (Env-Wt 514.07(a))
☐ Dug-in Basins and Boathouse Construction or Modification Projects (Env-Wt 515.06(a), (b))
☐ Dug-in Basins and Boathouse Maintenance and Repair Projects (Env-Wt 515.07(a))
☐ Intake and Outflow Structure Construction, Maintenance and Repair Projects (Env-Wt 516.05; Env-Wt 516.06(b))
☐ Trail or Pathway Projects (Env-Wt 517.06(a); Env-Wt 517.06(d))
☐ Boardwalk Projects (Env-Wt 517.07(a); (Env-Wt 517.09)
☐ Dry Hydrants and Other Non-Docking Structure Projects (Env-Wt 518.07(a)(1), (b))
☐ Pond Construction, Maintenance, and Repair Projects (Env-Wt 519.08(a), (b); Env-Wt 519.09(a))

- ☐ Residential Utility Installation Projects (Env-Wt 521.06(a)(7))
- ☐ Non-tidal Dredging Projects (Env-Wt 523.04(a))
- ☒ Residential, Commercial, and Industrial Development Projects (Env-Wt 524.06(b))
- ☐ Restoration/Enhancement Projects (Env-Wt 525.05)
- ☐ Dam Construction, Reconstruction, or Replacement Projects (Env-Wt 526.06(a))
- ☐ Dam Modification, Repair, or Maintenance Projects (Env-Wt 526.07(a))
- ☐ Pubic Highway Projects (Env-Wt 527.06; Env-Wt 527.07)
- ☐ Coastal Projects (Env-Wt 600)
- ☐ Stream Crossing Projects (Env-Wt 903.01(e))
- ☐ All Other Projects (Env-Wt 407.03)

Provide the project-specific information required by the rule(s)/provision(s). Refer to Chapters Env-Wt 400, Env-Wt 500, Env-Wt 600, and/or Env-Wt 900, as applicable, for project-specific application and design requirements.
Env-Wt 400: Wetlands delineated by Certified Wetland Scientist (Env-Wt 406.02); Jurisdictional area delineated (Env-Wt 406.05); Each wetland is classified in accordance with the federal classification method (Env-Wt 406.06); The project does not impact a PRA (Env-Wt 407.02); Proposed impact is less than 3000 s.f, therefore 'minimum' classification (Env-Wt 407.03).
Env-Wt 500: Project avoids and minimizes impacts to wetlands (Env-Wt 524.02); The project provides setbacks and water quality protection measures to protect private and public drinking water supplies, source water protection areas, and fisheries (Env-Wt 524.04); A construction notice will be filed at least 48 hours prior to commencing work (Env-Wt 524.05).
Env-Wt 600 and Env-Wt 900: N/A
Please see applicable Standard Project Specific Worksheets for guidance.

For projects located on waterbodies, provide the linear feet of shoreline frontage on the property: _____ linear feet
(☒ Not applicable)

Provide a brief description of the project and the purpose of the project, outlining the scope of work to be performed and whether impacts are temporary or permanent. DO NOT reply "See attached".

The applicant, Westfield, LLC, is proposing to subdivide a 58.91 acre parcel into 3 lots with associated site improvements, such as, site access, public roadways, grading, stormwater mitigation, and utilities. The project proposes 1,231 sf of wetlands impact (filling) for the installation of culverts and sewer connection. No other jurisdictional areas or PRAs are impacted from the proposed development.

Identify the type of jurisdictional resources to be impacted and the area of impact in square feet and/or linear feet:

The proposed project impacts 1,231 sf of the wetlands located on the east side of the site.

(☐ Not applicable)

SECTION 4 - PROJECT LOCATION (Env-Wt 310.01(b))

ADDRESS: NH Route 9 - Littleworth Road

TOWN/CITY: Dover, NH

TAX MAP/LOT NUMBER: G/2

US GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME:

☒ N/A

LATITUDE/LONGITUDE in decimal degrees (to five decimal places): 43.1872° North

70.9091° West

SECTION 5 - APPLICANT (DESIRED PERMIT HOLDER) INFORMATION (Env-Wt 310.01(a))

If the applicant is a trust or a company, then the name of the trust or company should be written as the applicant's name.

NAME: Westfield, LLC

MAILING ADDRESS: 340 Central Avenue, Suite #202

TOWN/CITY: Dover	STATE: NH	ZIP CODE: 03820
PHONE: (603) 749-2800	EMAIL ADDRESS (OPTIONAL):	
ELECTRONIC COMMUNICATION: By initialing here: CPK, I hereby authorize NHDES to communicate all matters relative to this application electronically.		
SECTION 6 - AUTHORIZED AGENT INFORMATION (Env-Wt 310.01(a)) If the agent is a company, then the name of the company should be written as the agent's name.		
NAME: CIvilworks New England		
MAILING ADDRESS: 181 Watson Road, P.O. Box 1166		
TOWN/CITY: Dover	STATE: NH	ZIP CODE: 03821
PHONE: (603) 749-0443	EMAIL ADDRESS (OPTIONAL): shaight@civilworksne.com	
ELECTRONIC COMMUNICATION: By initialing here: CNE, I hereby authorize NHDES to communicate all matters relative to this application electronically.		

SECTION 7 - PROPERTY OWNER INFORMATION, IF DIFFERENT FROM APPLICANT (Env-Wt 310.01(a)) If the owner is a trust or a company, then the name of the trust or company should be written as the owner's name.		
NAME:		
MAILING ADDRESS:		
TOWN/CITY:	STATE:	ZIP CODE:
PHONE:	EMAIL ADDRESS (OPTIONAL):	
ELECTRONIC COMMUNICATION: By initialing here: , I hereby authorize NHDES to communicate all matters relative to this application electronically.		
SECTION 8 - APPLICATION FEE (RSA 482-A:3, I)		
☒ $400 for minimum impact projects. Please make your check or money order payable to: "Treasurer - State of NH".		
SECTION 9 - REQUIRED CERTIFICATIONS (Env-Wt 310.01(d))		
Initial each box below to certify:		
Initials: CPK	The proposed project meets the conditions and limits of the applicable minimum impact project rule.	
Initials: CPK	All abutters have been notified.	
Initials: CPK	If the project is to repair or replace a docking structure, the docking structure is an existing legal structure. (☒ N/A)	

Initials: CPK	The proposal is the alternative with the least adverse impact to jurisdictional areas, as required by Env-Wt 310.01(d)(4).
Initials: CPK	The project is not an after-the-fact application.
Initials: CPK	The project is: • Not located in a PRA, or • Is located in a PRA but is subject to a classification adjustment under Env-Wt 407.02 or a project-type exception under Env-Wt 407.04.
Initials: CPK	The applicant is aware of the limits of the EXP and understands and will comply with all conditions in the EXP and all applicable conditions in Env-Wt 307.

Initials: CPK	To the best of the signer's knowledge and belief, all required notifications have been provided.
Initials: CPK	The information submitted on or with the application is true, complete, and not misleading to the best of the signer's knowledge and belief.
Initials: CPK	The signer understands that: • The submission of false, incomplete, or misleading information constitutes grounds for NHDES to: 1. Deny the application. 2. Revoke any approval that is granted based on the information. 3. If the signer is a certified wetland scientist, licensed surveyor, or professional engineer licensed to practice in New Hampshire, refer the matter to the joint board of licensure and certification established by RSA 310-A:1. • The signer is subject to the penalties specified in New Hampshire law for falsification in official matters, currently RSA 641. • The signature shall constitute authorization for the municipal conservation commission and the Department to inspect the site of the proposed project, except for minimum impact trail projects, where the signature shall authorize only the Department to inspect the site pursuant to RSA 482-A:6, II.
Initials: CPK	If the applicant is not the owner of the property, each property owner signature shall constitute certification by the signer that he or she is aware of the application being filed and does not object to the filing.

SECTION 10 - REQUIRED SIGNATURES (Env-Wt 310.01(d))

SIGNATURE (OWNER)*:	PRINT NAME LEGIBLY:	DATE:
_____	Westfield, LLC	

*Note: If the applicant is not the owner of the property, each property owner also shall sign and date the application provided that property owner signatures shall not be required for transportation projects adjacent to existing rights-of-way where an easement will be obtained prior to the start of construction (Env-Wt 311.11(d)). Check the following box if your project meets this exception: ☐.		
SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER):	PRINT NAME LEGIBLY:	DATE:
SIGNATURE (AGENT, IF APPLICABLE):	PRINT NAME LEGIBLY: Civilworks New England	DATE:
SECTION 11 - CONSERVATION COMMISSION SIGNATURE (Env-Wt 310.01(h))** The signed statement from the Conservation Commission may be submitted electronically.		
The signature below certifies that the municipal Conservation Commission or, if there is no conservation commission, the local governing body, has reviewed this application and the municipality waives its right to intervene on the project, per RSA 482-A:11.		
AUTHORIZED COMMISSION SIGNATURE:	PRINT NAME LEGIBLY: William Hunt	DATE:

SECTION 12 - LOCAL RIVER MANAGEMENT ADVISORY COMMITTEE SIGNATURE (Env-Wt 310.01(i))**		
The signature below certifies that the LAC waives its right to intervene per RSA 482-A:11: (☒ N/A This project is **not** within a Designated River Corridor)		
AUTHORIZED LAC REPRESENTATIVE SIGNATURE:	PRINT NAME LEGIBLY:	DATE:

**Note: If the application is administratively complete, except for the signed statement from the Conservation Commission and/or LAC, the application will be processed under the application processing times established in RSA 482-A:3, XIV (Env-Wt 310.02(h)). The applicant may also indicate that they are applying for a minimum impact application under standard processing timelines.

SECTION 14 - TOWN / CITY CLERK SIGNATURE (Env-Wt 310.01(f))	
As required by RSA 482-A:3, I(a)(1), I hereby certify that the municipality has received four copies of the application, including all attachments.	
TOWN/CITY CLERK SIGNATURE:	PRINT NAME LEGIBLY: Susan Mistretta
TOWN/CITY: Dover, NH	DATE:

DIRECTIONS FOR TOWN/CITY CLERK:
Per RSA 482-A:3, I(a)(1)

1. IMMEDIATELY sign the original application form and four copies in the signature space provided above.
2. Return the signed original application form and attachments to the applicant so that the applicant may submit the application form and attachments to NHDES by mail or hand delivery.
3. IMMEDIATELY distribute a copy of the application with one complete set of attachments to each of the following bodies: the municipal Conservation Commission, the local governing body (Board of Selectmen or Town/City Council), and the Planning Board.

4. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

DIRECTIONS FOR APPLICANT:
Submit the single, original permit application form bearing the signature of the Town/City Clerk, additional materials, and the application fee to NHDES by mail or hand delivery at the address at the bottom of this page.

Keep this checklist for your reference; do not submit with your application.

APPLICATION CHECKLIST

Required for all applications:

- ☒ The completed, dated, signed and certified application (Env-Wt 310.01).
- ☒ Application fee of $400, as determined in RSA 482-A:3, I (Env-Wt 310.01(e)). Make check or money order payable to "Treasurer – State of NH".
- ☐ US Army Corps of Engineers (ACE) "Appendix B, New Hampshire General Permits (GPs), Required Information and Corps Secondary Impacts Checklist" and its required attachments (Env-Wt 307.02). This includes the US Fish and Wildlife Service IPAC review and Section 106 Historic/Archaeological Resource review.
- ☒ A copy of the town tax map(s) showing the location of the proposed project in relation to abutters (Env-Wt 310.01(b)(2)).
- ☒ A list of abutters' names and mailing addresses to cross-reference with the tax map (Env-Wt 310.01(b)(3)).
- ☒ A copy of the appropriate US Geological Survey map with the property and project clearly marked (Env-Wt 310.01(b)(4)).
- ☒ Photos that meet all of the following criteria:
  - ☒ Clearly show the area to be impacted,
  - ☒ Are mounted or printed no more than two per sheet on 8.5-inch x 11-inch paper, and
  - ☒ Are annotated to explain impact (Env-Wt 310.01(b)(6)).
- ☒ The results and identification number of the NHB DataCheck (Env-Wt 310.01(b)(8)). See Wetlands Permitting: Protected Species and Habitat Fact Sheet.
- ☒ An accurate drawing showing the precise location, with detailed dimensions clearly annotated to document existing site conditions and to show the proposed impacts to the jurisdictional areas (Env-Wt 310.01(c)(4)).
- ☒ An accurate drawing to show the impact of the proposed activity on jurisdictional areas, including the following (Env-Wt 310.01(c)(5)):
  - ☒ An overview of the property and proposed impact areas in relation to property lines,
  - ☒ The scale, if any, used on the drawing,
  - ☒ If the drawing is not to scale, the dimensions of all existing and proposed structures and all other relevant features necessary to clearly define the project,
  - ☒ A labeled north-pointing arrow to indicate orientation,
  - ☒ A legend that clearly indicates all symbols, line types, and shading used on the plan,
  - ☒ The location of the jurisdictional areas delineated in accordance with Env-Wt 400,
  - ☒ Proposed sequence of construction including pre-construction through post-construction activities and the relative timing and progression of all work,
  - ☒ The location and type of siltation and turbidity controls indicated graphically and labeled or annotated as necessary,
  - ☐ For any project using a temporary coffer dam and for any repair of a tier 3 stream crossing, the date, signature, and seal of the licensed professional engineer who prepared or had responsibility for the plan(s),
  - ☐ For restoration/enhancement projects, the information required to be shown on a map by Env-Wt 525,
  - ☐ For tidal minimum impact projects, the information required to be shown on a map by Env-Wt 600, and
  - ☐ For minimum impact stream crossing projects, the information required to be shown on a map by Env-Wt 900.
- ☒ The linear distance of the project from abutting property boundaries (Env-Wt 310.01(c)(7)).

Required for certain project type, as applicable:

- ☐ The type of dock construction (Env-Wt 310.01(c)(8)).
- ☒ The diameter of culvert(s) to be used for road or driveway crossings (Env-Wt 310.01(c)(8)).
- ☐ The additional information specified in Env-Wt 522 for minimum impact agricultural applications (Env-Wt 310.01(c)(8)).
- ☐ Plans for maintenance of retaining walls, as specified in Env-Wt 514 (if applicable; Env-Wt 310.01(c)(8)).
- ☐ Specifications and plans for maintenance of rip-rap, as required by Env-Wt 514 (Env-Wt 310.01(c)(8)).
- ☒ Any other project-specific plan or information required under Env-Wt 500 and as described in the project-specific worksheet (Env-Wt 310.01(c)(8)).
- ☐ Information required on the Coastal Resource Worksheet for coastal projects under Env-Wt 600.
- ☐ Prime Wetlands information required under Env-Wt 700.
- ☐ Information requested on the Stream Crossing Worksheet required by Env-Wt 900.

EXPEDITED (EXP) MINIMUM IMPACT WETLANDS PERMIT APPLICATION REVIEW PROCESS

Water Division/Land Resources Management
Wetlands Bureau

(Keep this sheet for your reference; do not submit it with your application)

In accordance with Env-Wt 310.02, the department must review an application for an expedited permit (EXP) for administrative completeness and compliance with applicable department rules within 30 calendar days of receipt if the application has been signed by:

- The municipal conservation commission or, if there is no conservation commission, the local governing body, certifying that the municipality waives its right to intervene on the project, which may be submtted electronically; and
- The LAC, if the project is within LAC jurisdiction, certifying that the LAC waives its right to intervene on the project. "LAC jurisdiction" means the authority conferred by RSA 483:8-a, III upon a local river management advisory committee relative to activities within a designated river or river corridor, provided that for the purpose of routine roadway maintenance activities conducted under an EXP, LAC jurisdiction is limited to activities in or within 250 feet of a tier 2 or tier 3 designated river that have a direct surface water connection to the designated river (Env-Wt 103.27).

Administrative Completeness Review:

If the application is administratively complete, complies with applicable requirements, and has the signature(s) mentioned above, the department will issue an EXP and post the information on OneStop within one business day of determining that the application was complete and in compliance with all applicable requirements.

If the application is lacking anything other than the signatures mentioned above and the project qualifies for an EXP, the department will send a written notice to the applicant that:

- Identifies each item that is missing; and
- Informs the applicant that in order to proceed under the EXP, the applicant must submit all necessary information within 20 days of the date of the notice or the application will be denied.

If the application was administratively complete except for one or both of the signatures required above, the department will send a written notice to the applicant that the application will be processed under the application processing times established in RSA 482-A:3, XIV.

If the applicant receives the above-mentioned notice and wishes to proceed under an EXP, the applicant must submit a revised application for an EXP that provides all of the required information within 20 days of the date of the notice. If the applicant does not submit all necessary information to the department within 20 days, the department will deny the EXP.

Technical Review:

If the information submitted as part of the application is not sufficient for the department to determine that the project meets the criteria for an EXP, the department shall send a request for more information, together with any written technical comments the department deems necessary, within 30 calendar days of receipt of the application. Such request and technical comments shall be sent by electronic means if the applicant or applicant's agent has indicted that doing so is acceptable.

If the project proposed in the EXP application does not comply with applicable requirements, the department will deny the application and notify the applicant in writing of the reason(s) for the denial.

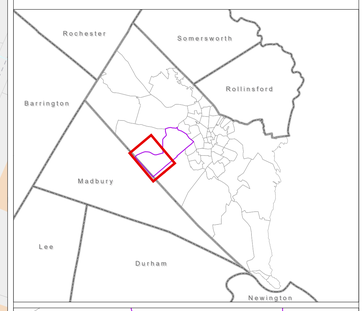
Signed Check

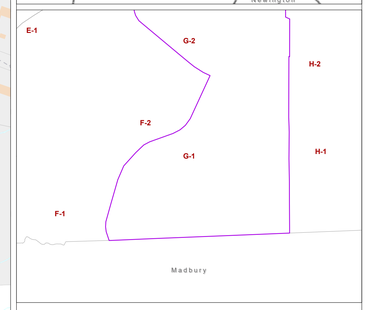
Tax Map

CITY OF DOVER
STAFFORD COUNTY NH
TAX ASSESSORS MAP

Map Page: G-1

Parcels
Parcel on Adjacent Maps
Buildings
Rail Road
Water Body
Swamp/Marsh
Streams
A-20-0-0 Parcel Number
0.24 AC Parcel Acreage
240 Address Number





400 200 0 400 Feet

1:2,400
1 " = 200 '

This map is for assessment and planning purposes only. It is not intended to be used for description, conveyance, authoritative definition of any legal boundary, or property title. This is not a survey product. Users are encouraged to examine the documentation associated with the data on which this map is based for information related to its accuracy, currentness and limitations.

Map Generated: Wednesday, March 21, 2018

AppGeo

Abutters List & Notifications

ABUTTERS LIST

for

MINIMUM EXPEDITED WETLANDS PERMIT

WESTFIELD, LLC
NH ROUTE 9 – LITTLEWORTH ROAD
TAX MAP G, LOT 2
Prepared April 28, 2022

ABUTTERS

TAX MAP/ LOT NO	OWNER OF RECORD	MAILING ADDRESS
G-2-1 G-2-2 G-2	WESTFIELD LLC (OWNER)	340 CENTRAL AVENUE STE 202 DOVER, NH 03820
G-3-A-100	RECON REALTY LLC	80 INDUSTRIAL PARK DRIVE DOVER, NH 03820
G-3-A-101	JUMAJA SEACOAST LLC	74 INDUSTRIAL PARK ROAD DOVER, NH 03820
G-3-C	SOLVETTA SALES INC	44 INDUSTRIAL PARK ROAD DOVER, NH 03820
G-5	BOSTON & MAINE RR IRON HORSE PARK	HIGH STREET NORTH BILLERICA, MA 01862
G-31	CASWELL, BRUCE	68 LITTLEWORTH ROAD DOVER, NH 03820
G-31-1	MCGUIRE GROUP LLC	P.O. BOX 988 DOVER, NH 03820
G-41	BT-NEWYO LLC ATTN CORP REAL ESTATE DEPT TAX MRG	55 GLENLAKE PARKWAY NE ATLANTA, GA 30328

CIVILWORKS NEW ENGLAND
181 WATSON ROAD
P.O. BOX 1166
DOVER, NH 03821-1166
PHONE: 603.749.0443 FAX: 603.749.7348

April 29, 2022

To: Westfield LLC
340 Central Avenue STE 202
Dover, NH 03820

Ref: Minimum Expedited Wetlands Permit
Westfield, LLC
Tax Map G, Lot 2
NH Route 9 – Littleworth Road, Dover, NH 03820

CNE Reference No. 18043

Dear Abutter:

The purpose of this letter is to inform you that a permit application will be filed with the N.H. Department of Environmental Services for a Minimum Expedited Wetlands Permit associated with the above referenced project. Under state law RSA 483-B:5-b, iv-a, I am required to notify you about the application.

A copy of the application, including plans, will be made available for your review at the Newington town offices and at the NH Department of Environmental Services Wetlands Bureau, 29 Hazen Drive, in Concord.

If you have any questions that we might be able to answer, please do not hesitate to contact our office.

Sincerely,

Stephen J. Haight, P.E.,
CIVILWORKS NEW ENGLAND
P.O. Box 1166, Dover, NH 03821
603.749.0443

CIVILWORKS NEW ENGLAND
181 WATSON ROAD
P.O. BOX 1166
DOVER, NH 03821-1166
PHONE: 603.749.0443 FAX: 603.749.7348

April 29, 2022

To: Recon Realty LLC
80 Industrial Park Drive
Dover, NH 03820

Ref: Minimum Expedited Wetlands Permit
Westfield, LLC
Tax Map G, Lot 2
NH Route 9 – Littleworth Road, Dover, NH 03820

CNE Reference No. 18043

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A copy of the application, including plans, will be made available for your review at the Newington town offices and at the NH Department of Environmental Services Wetlands Bureau, 29 Hazen Drive, in Concord.

If you have any questions that we might be able to answer, please do not hesitate to contact our office.

Sincerely,

Stephen J. Haight, P.E.,
CIVILWORKS NEW ENGLAND
P.O. Box 1166, Dover, NH 03821
603.749.0443

CIVILWORKS NEW ENGLAND
181 WATSON ROAD
P.O. BOX 1166
DOVER, NH 03821-1166
PHONE: 603.749.0443 FAX: 603.749.7348

April 29, 2022

To: Jumaja Seacoast LLC
74 Industrial Park Road
Dover, NH 03820

Ref: Minimum Expedited Wetlands Permit
Westfield, LLC
Tax Map G, Lot 2
NH Route 9 – Littleworth Road, Dover, NH 03820

CNE Reference No. 18043

Dear Abutter:

The purpose of this letter is to inform you that a permit application will be filed with the N.H. Department of Environmental Services for a Minimum Expedited Wetlands Permit associated with the above referenced project. Under state law RSA 483-B:5-b, iv-a, I am required to notify you about the application.

A copy of the application, including plans, will be made available for your review at the Newington town offices and at the NH Department of Environmental Services Wetlands Bureau, 29 Hazen Drive, in Concord.

If you have any questions that we might be able to answer, please do not hesitate to contact our office.

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603.749.0443

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181 WATSON ROAD
P.O. BOX 1166
DOVER, NH 03821-1166
PHONE: 603.749.0443 FAX: 603.749.7348

April 29, 2022

To: Solvetta Sales Inc
44 Industrial Park Road
Dover, NH 03820

Ref: Minimum Expedited Wetlands Permit
Westfield, LLC
Tax Map G, Lot 2
NH Route 9 – Littleworth Road, Dover, NH 03820

CNE Reference No. 18043

Dear Abutter:

The purpose of this letter is to inform you that a permit application will be filed with the N.H. Department of Environmental Services for a Minimum Expedited Wetlands Permit associated with the above referenced project. Under state law RSA 483-B:5-b, iv-a, I am required to notify you about the application.

A copy of the application, including plans, will be made available for your review at the Newington town offices and at the NH Department of Environmental Services Wetlands Bureau, 29 Hazen Drive, in Concord.

If you have any questions that we might be able to answer, please do not hesitate to contact our office.

Sincerely,

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CIVILWORKS NEW ENGLAND
P.O. Box 1166, Dover, NH 03821
603.749.0443

CIVILWORKS NEW ENGLAND
181 WATSON ROAD
P.O. BOX 1166
DOVER, NH 03821-1166
PHONE: 603.749.0443 FAX: 603.749.7348

April 29, 2022

To: Boston & Maine RR
Iron Horse Park
High Street
North Billerica, MA 01862

Ref: Minimum Expedited Wetlands Permit
Westfield, LLC
Tax Map G, Lot 2
NH Route 9 – Littleworth Road, Dover, NH 03820

CNE Reference No. 18043

Dear Abutter:

The purpose of this letter is to inform you that a permit application will be filed with the N.H. Department of Environmental Services for a Minimum Expedited Wetlands Permit associated with the above referenced project. Under state law RSA 483-B:5-b, iv-a, I am required to notify you about the application.

A copy of the application, including plans, will be made available for your review at the Newington town offices and at the NH Department of Environmental Services Wetlands Bureau, 29 Hazen Drive, in Concord.

If you have any questions that we might be able to answer, please do not hesitate to contact our office.

Sincerely,

Stephen J. Haight, P.E.,
CIVILWORKS NEW ENGLAND
P.O. Box 1166, Dover, NH 03821
603.749.0443

CIVILWORKS NEW ENGLAND
181 WATSON ROAD
P.O. BOX 1166
DOVER, NH 03821-1166
PHONE: 603.749.0443 FAX: 603.749.7348

April 29, 2022

To: Caswell Bruce
68 Littleworth Road
Dover, NH 03820

Ref: Minimum Expedited Wetlands Permit
Westfield, LLC
Tax Map G, Lot 2
NH Route 9 – Littleworth Road, Dover, NH 03820

CNE Reference No. 18043

Dear Abutter:

The purpose of this letter is to inform you that a permit application will be filed with the N.H. Department of Environmental Services for a Minimum Expedited Wetlands Permit associated with the above referenced project. Under state law RSA 483-B:5-b, iv-a, I am required to notify you about the application.

A copy of the application, including plans, will be made available for your review at the Newington town offices and at the NH Department of Environmental Services Wetlands Bureau, 29 Hazen Drive, in Concord.

If you have any questions that we might be able to answer, please do not hesitate to contact our office.

Sincerely,

Stephen J. Haight, P.E.,
CIVILWORKS NEW ENGLAND
P.O. Box 1166, Dover, NH 03821
603.749.0443

CIVILWORKS NEW ENGLAND
181 WATSON ROAD
P.O. BOX 1166
DOVER, NH 03821-1166
PHONE: 603.749.0443 FAX: 603.749.7348

April 29, 2022

To: Mcguire Group LLC
P.O. Box 988
Dover, NH 03820

Ref: Minimum Expedited Wetlands Permit
Westfield, LLC
Tax Map G, Lot 2
NH Route 9 – Littleworth Road, Dover, NH 03820

CNE Reference No. 18043

Dear Abutter:

The purpose of this letter is to inform you that a permit application will be filed with the N.H. Department of Environmental Services for a Minimum Expedited Wetlands Permit associated with the above referenced project. Under state law RSA 483-B:5-b, iv-a, I am required to notify you about the application.

A copy of the application, including plans, will be made available for your review at the Newington town offices and at the NH Department of Environmental Services Wetlands Bureau, 29 Hazen Drive, in Concord.

If you have any questions that we might be able to answer, please do not hesitate to contact our office.

Sincerely,

Stephen J. Haight, P.E.,
CIVILWORKS NEW ENGLAND
P.O. Box 1166, Dover, NH 03821
603.749.0443

CIVILWORKS NEW ENGLAND
181 WATSON ROAD
P.O. BOX 1166
DOVER, NH 03821-1166
PHONE: 603.749.0443 FAX: 603.749.7348

April 29, 2022

To: BT-Newyo LLC
Attn Corp Real Estate Dept Tax Mrg
55 Glenlake Parkway NE
Atlanta, GA 30328

Ref: Minimum Expedited Wetlands Permit
Westfield, LLC
Tax Map G, Lot 2
NH Route 9 – Littleworth Road, Dover, NH 03820

CNE Reference No. 18043

Dear Abutter:

The purpose of this letter is to inform you that a permit application will be filed with the N.H. Department of Environmental Services for a Minimum Expedited Wetlands Permit associated with the above referenced project. Under state law RSA 483-B:5-b, iv-a, I am required to notify you about the application.

A copy of the application, including plans, will be made available for your review at the Newington town offices and at the NH Department of Environmental Services Wetlands Bureau, 29 Hazen Drive, in Concord.

If you have any questions that we might be able to answer, please do not hesitate to contact our office.

Sincerely,

Stephen J. Haight, P.E.,
CIVILWORKS NEW ENGLAND
P.O. Box 1166, Dover, NH 03821
603.749.0443

CIVILWORKS NEW ENGLAND
181 WATSON ROAD
P.O. BOX 1166
DOVER, NH 03821-1166
PHONE: 603.749.0443 FAX: 603.749.7348

April 29, 2022

To: City of Dover
288 Central Avenue
Dover, NH 03820

Ref: Minimum Expedited Wetlands Permit
Westfield, LLC
Tax Map G, Lot 2
NH Route 9 – Littleworth Road, Dover, NH 03820

CNE Reference No. 18043

Dear City of Dover:

The purpose of this letter is to inform you that a permit application will be filed with the N.H. Department of Environmental Services for a Minimum Expedited Wetlands Permit associated with the above referenced project. Under state law RSA 483-B:5-b, iv-a, I am required to notify you about the application.

Sincerely,

Stephen J. Haight, P.E.,
CIVILWORKS NEW ENGLAND
P.O. Box 1166, Dover, NH 03821
603.749.0443

STATE NOTIFICATION FOR MINIMUM EXPEDITED WETLANDS PERMIT APPLICATION

VIA CERTIFIED MAIL

April 29, 2022

STATE OF NEW HAMPSHIRE
P.O. BOX 483
CONCORD, NH 03302-0483

Re: Minimum Expedited Wetlands Permit Application
Westfield, LLC
Tax Map G, Lot 2
NH Route 9 – Littleworth Road, Dover, NH 03820

Our Reference No. 18043

Dear Sir or Madam:

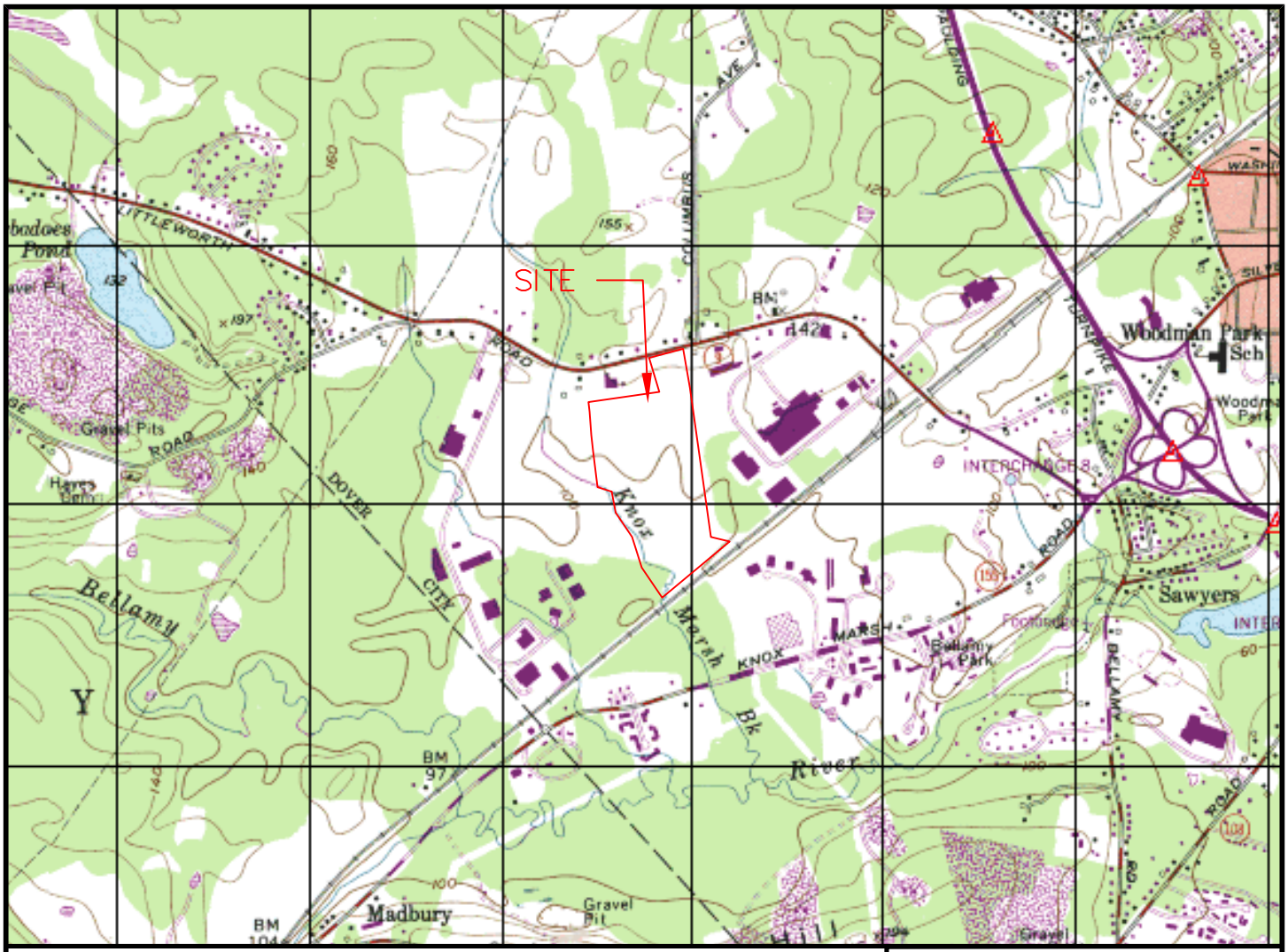
This letter is to inform you that a permit application will be filed with the N.H. Department of Environmental Services for a Minimum Expedited Wetlands Permit associated with the above referenced project. Under state law RSA 483-B:5-b, iv-a, I am required to notify you about the application, which proposes work abutting your property.

Once it is filed, the permit application, including plans that show the proposed project, will be available for viewing at the City of Dover Clerk's office.

Sincerely,

Stephen J. Haight, P.E.,
CIVILWORKS NEW ENGLAND
P.O. Box 1166, Dover, NH 03821
603.749.0443

USGS Map



DOVER WEST, N. H.

NW/4 DOVER 15' QUADRANGLE

43070-B8-TF-024

1956

REVISED 1993

DMA 6870 III NW-SERIES V812

GRAPHIC SCALE

2000 0 1000 2000 4000 8000

(IN FEET)

USGS MAP
1"=2000'

WESTFIELD, LLC
TAX MAP G, LOT 2
NH ROUTE 9 – LITTLEWORTH ROAD
DOVER, NH 03821

CIVILWORKS NEW ENGLAND
CIVIL & WATERFRONT ENGINEERING
181 Watson Road, PO Box 1166
Dover, New Hampshire 03821
603.749.0443

DATE: 4/28/22

PROJECT No. 18043
FILE: 18043–USGS

USGS–042822–18043

Site Photographs

Wetland
Impact B
Photo 1

Wetland
Impact B
Photo 2

Wetland
Impact B
Photo 3

Wetland
Impact B
Photo 4

Wetland
Impact A
Photo 5

Wetland
Impact A
Photo 6

Wetland
Impact A
Photo 7

Wetland
Impact C
Photo 8

Wetland
Impact C
Photo 9

Wetland
Impact C
Photo 10

DV=80

A AREA WETLAND IMPACT: 508 S.F.

B AREA WETLAND IMPACT: 563 S.F.

C AREA WETLAND IMPACT: 160 S.F.

1 2 3 4 5 6 7 8 9 10

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

NOT FOR CONSTRUCTION FOR PERMIT USE ONLY

CIVILWORKS NEW ENGLAND
CIVIL & WATERFRONT ENGINEERING
181 Watson Road, PO Box 1166
Dover, New Hampshire 03821
603.749.0443

NO.	REVISION	APP'D	DATE

DATE: 4-28-22
SCALE: 1"=50'
DRAWN BY: GMS
DESIGN BY: DJL
APPROVED BY:SJH
PROJECT NO: 18043
FILE:18043-PHOTO KEY PLAN

WESTFIELD, LLC.
340 CENTRAL AVENUE
SUITE 202
DOVER, NH, 03820

WESTFIELD, LLC
3 LOT SUBDIVISION
64 LITTLEWORTH ROAD
DOVER, NEW HAMPSHIRE

PHOTO KEY PLAN

PM-1

NHB Datacheck

Memo

NH Natural Heritage Bureau
NHB DataCheck Results Letter

Please note: portions of this document are confidential.
Maps and NHB record pages are confidential and should be redacted from public documents.

To: Jase Gregoire, Civilworks New England
PO Box 1166
Dover, NH 03820

From: NHB Review, NH Natural Heritage Bureau
Date: 4/5/2022 (valid until 04/05/2023)
Re: Review by NH Natural Heritage Bureau
Permits: MUNICIPAL POR - Dover, NHDES - Alteration of Terrain Permit, NHDES - Wetland Standard Dredge & Fill - Minor, USEPA - Stormwater Pollution Prevention

NHB ID: **NHB22-1145** Town: Dover Location: 64 Littleworth RD
Description: Project is located in the industrial zone in the City of Dover. Project will include construction of 30' wide road for site access off of Industrial Park Drive, and construction of large industrial & commercial buildings.

cc: Kim Tuttle

As requested, I have searched our database for records of rare species and exemplary natural communities, with the following results.

Department of Natural and Cultural Resources
Division of Forests and Lands
(603) 271-2214 fax: 271-6488

DNCR/NHB
172 Pembroke Rd.
Concord, NH 03301

Memo

NH Natural Heritage Bureau
NHB DataCheck Results Letter

Please note: portions of this document are confidential.
Maps and NHB record pages are confidential and should be redacted from public documents.

Comments **NHB: Please identify if there have been any previous Datachecks for this project. Were any plant surveys on the site previously conducted during the growing season? Provide any documentation to verify surveys were completed. Provide a full project description, indicating all the proposed structures on the lot. Provide a plan showing a wetland delineation, if one has been performed.**
F&G: Please pay special attention to providing photos and describing any shrub-brushy habitat on the entire parcel so that we may evaluate for New England Cottontail. Also please conduct a vernal pool survey betwee April 1st and the end of May.

If this NHB Datacheck letter includes a record for a threatened (T) or endangered (E) wildlife species, consultation with the New Hampshire Fish and Game Department under Fis 1004 may be required. To review the Fis 1000 rules (effective February 3, 2022), please go to https://wildlife.state.nh.us/wildlife/environmental-review.html. All requests for consultation and submittals should be sent via email to NHFGreview@wildlife.nh.gov or can be sent by mail, and must include the NHB Datacheck results letter number and "Fis 1004 consultation request" in the subject line.

If the NHB DataCheck response letter does not include a threatened or endangered wildlife species but includes other wildlife species (e.g., Species of Special Concern), consultation under Fis 1004 is not required; however, some species are protected under other state laws or rules, so coordination with NH Fish & Game is highly recommended or may be required for certain permits. While some permitting processes are exempt from required consultation under Fis 1004 (e.g., statutory permit by notification, permit by rule, permit by notification, routine roadway registration, docking structure registration, or conditional authorization by rule), coordination with NH Fish & Game may still be required under the rules governing those specific permitting processes, and it is recommended you contact the applicable permitting agency. For projects not requiring consultation under Fis 1004, but where additional coordination with NH Fish and Game is requested, please email: Kim Tuttle kim.tuttle@wildlife.nh.gov with a copy to NHFGreview@wildlife.nh.gov, and include the NHB Datacheck results letter number and "review request" in the email subject line.

Plant species	**State[1]**	**Federal**	**Notes**
greater fringed-gentian (*Gentianopsis crinita*)	T	--	Vulnerable to shading by invading trees and to disturbances that destroy plants or impede their ability to reproduce (such as mowing in the mid-summer while the plants are in bloom).
Nuttall's reed grass (*Calamagrostis coarctata*)	E	--	

Vertebrate species	**State[1]**	**Federal**	**Notes**
New England Cottontail (*Sylvilagus transitionalis*)	E	--	Contact the NH Fish & Game Dept (see below).
Northern Black Racer (*Coluber constrictor constrictor*)	T	--	Contact the NH Fish & Game Dept (see below).

Department of Natural and Cultural Resources
Division of Forests and Lands
(603) 271-2214 fax: 271-6488

DNCR/NHB
172 Pembroke Rd.
Concord, NH 03301

Memo

NH Natural Heritage Bureau
NHB DataCheck Results Letter

Please note: portions of this document are confidential.
Maps and NHB record pages are confidential and should be redacted from public documents.

Spotted Turtle (*Clemmys guttata*)	T	--	Contact the NH Fish & Game Dept (see below).

[1]Codes: "E" = Endangered, "T" = Threatened, "SC" = Special Concern, "--" = an exemplary natural community, or a rare species tracked by NH Natural Heritage that has not yet been added to the official state list. An asterisk (*) indicates that the most recent report for that occurrence was more than 20 years ago.

Contact for all animal reviews: Kim Tuttle, NH F&G, (603) 271-6544.

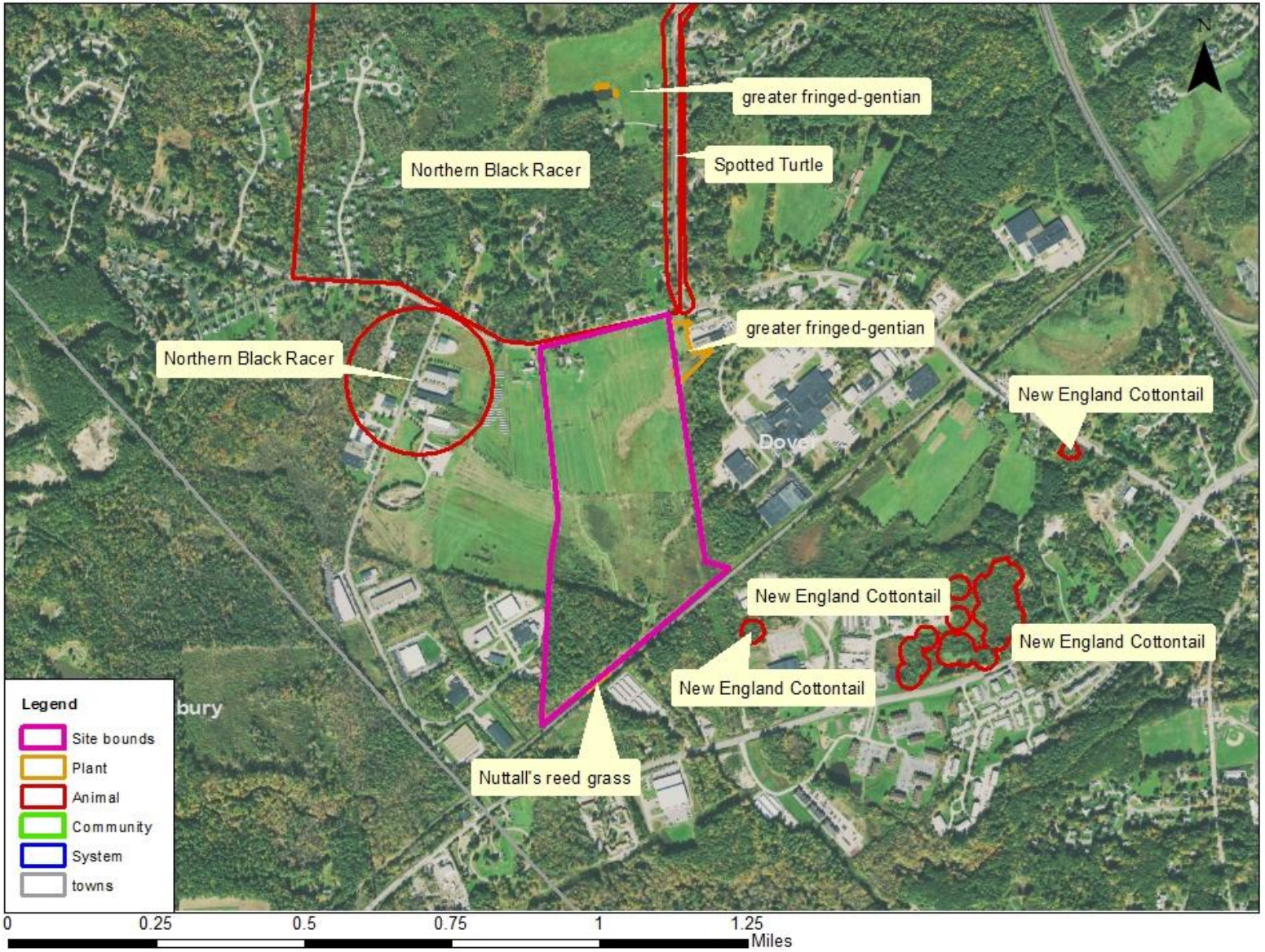
A negative result (no record in our database) does not mean that a sensitive species is not present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed for certain species. An on-site survey would provide better information on what species and communities are indeed present.

Department of Natural and Cultural Resources
Division of Forests and Lands
(603) 271-2214 fax: 271-6488

DNCR/NHB
172 Pembroke Rd.
Concord, NH 03301

CONFIDENTIAL – NH Dept. of Environmental Services review

NHB22-1145



New Hampshire Natural Heritage Bureau - Plant Record

greater fringed-gentian (*Gentianopsis crinita*)

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Demonstrably widespread, abundant, and secure
State:	Listed Threatened	State:	Imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank:	Fair quality, condition and/or landscape context ('C' on a scale of A-D).
Comments on Rank:	Parking lot encroachment.
Detailed Description:	2020: Kay: Approximately 43 plants, 13 on the north side of the pond, 30 on the east side. Most plants were in flower. 1987: UPS: 51-100 vigorous flowering, budding and vegetative plants. Specimen in UNH.
General Area:	2020: Kay: Along edge of farm pond in agricultural fields. Associated species include asters, clover, goldenrod, and grasses. 1987: UPS: wet, open, flat meadow (cow pasture).
General Comments:	--
Management Comments:	2020: Kay: Phragmites control has been conducted on populations adjacent to the pond.

Location

Survey Site Name: Columbus Avenue, Dover
Managed By:

County: Strafford
Town(s): Dover
Size: 2.0 acres Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: 2020: Kay: 131 Columbus Avenue, Dover. Drive up owner's driveway and walk along the field edge in a northerly direction to pond. Found on east and north sides of the small farm pond. 1987: Dover. UPS station. Next to UPS parking lot in cow pasture.

Dates documented

First reported: 1987 Last reported: 2020-10-05

CONFIDENTIAL – NH Dept. of Environmental Services review

New Hampshire Natural Heritage Bureau - Plant Record

Nuttall's reed grass (*Calamagrostis coarctata*)

Legal Status	Conservation Status
Federal: Not listed	Global: Demonstrably widespread, abundant, and secure
State: Listed Endangered	State: Critically imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Not ranked
Comments on Rank: --

Detailed Description: 2005: 9 plants (perennial clumps?), 7 with fruit, in a ca. 10x20 ft. area.
General Area: 2005: Somewhat disturbed area next to railroad tracks, next to a larger swamp. *Pinus strobus* (white pine) in wetland and adjacent upland. Shrubs include *Alnus incana* ssp. *rugosa* (speckled alder), *Vaccinium corymbosum* (highbush blueberry), and *Ilex verticillata* (winterberry). Herbaceous layer has abundant *Glyceria canadensis* (rattlesnake mannagrass), *Osmunda cinnamomea* (cinnamon fern), *Thelypteris noveboracensis* (New York fern), *Juncus effusus* (soft rush), *Scirpus* sp. (rush), *Spiraea alba* var. *latifolia* (eastern meadowsweet), *Spiraea tomentosa* (steeple bush), and *Solidago* sp. (goldenrod). Across the railroad tracks is a large swamp with *Lythrum salicaria* (purple loosestrife).
General Comments: --
Management Comments: 2005: Railroad regularly cuts vegetation. Lots of slash next to the railroad but not much where the plants were growing.

Location

Survey Site Name: Knox Marsh Brook
Managed By:

County: Strafford
Town(s): Dover
Size: .0 acres
Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: 2005: From Rte. 155 (Knox Marsh Road) drive to Eagle Storage. Walk behind the storage buildings and cross the railroad tracks (need permission from the railroad). Alternative approach from the other side of the tracks is via Crosby Road off Rte. 9, behind industrial buildings.

Dates documented

First reported: 2005-11-01 Last reported: 2005-11-14

CONFIDENTIAL – NH Dept. of Environmental Services review

New Hampshire Natural Heritage Bureau - Animal Record

New England Cottontail (*Sylvilagus transitionalis*)

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Rare or uncommon
State:	Listed Endangered	State:	Critically imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank:	Not ranked
Comments on Rank:	--
Detailed Description:	2014: Winter observation at 1 point. 2011: Winter observations at 22 points. 2003: Seen (Obs_id 442). Seen (Obs_id 441).
General Area:	2003: Terrestrial: Scrub / shrubland (Obs_id 442, 441).
General Comments:	2003: Results of J. Litvaitis Regional New England Cottontail Survey - 2003 (Obs_id 442). 2003: Results of J. Litvaitis Regional New England Cottontail Survey - 2003 (Obs_id 441).
Management Comments:	--

Location

Survey Site Name: Knox Marsh
Managed By:

County: Strafford
Town(s): Dover
Size: 14.2 acres Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: 2003: Rte. 9, ca. 200 meters from junction with Rte. 155; old field south of road (Obs_id 442). 2003: Traveling NE on Rte. 155, old field patch on left after the Dover bus depot (Obs_id 441).

Dates documented

First reported: 2003-01-01 Last reported: 2014

The New Hampshire Fish & Game Department has jurisdiction over rare wildlife in New Hampshire. Please contact them at 11 Hazen Drive, Concord, NH 03301 or at (603) 271-2461.

CONFIDENTIAL – NH Dept. of Environmental Services review

New Hampshire Natural Heritage Bureau - Animal Record

Northern Black Racer (*Coluber constrictor constrictor*)

Legal Status	Conservation Status
Federal: Not listed	Global: Demonstrably widespread, abundant, and secure
State: Listed Threatened	State: Imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank:	Not ranked
Comments on Rank:	--
Detailed Description:	2003: 6-foot long roadkill, about 2 weeks ago [from 9/18/03] (Obs_id 2003.0132). 1999: 5 adult or subadult snakes captured and monitored with radio telemetry.
General Area:	2003: Large hayfield (industrial park) (Obs_id 2003.0132). 1999: No details.
General Comments:	1999: Collected under plastic cover sheets and traps.
Management Comments:	--

Location

Survey Site Name:	Rte. 9, north of
Managed By:	Ezra Greens Farm
County:	Strafford
Town(s):	Dover
Size:	405.5 acres
Elevation:	

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: 2003: Crosby Road, intersection Rte. 9, 150'-200' down on right (Obs_id 2003.0132). 1999: Nearly a square mile area, ca. 1 mile west of Dover. Bounded by Rte. 9 to the south, Tolend Rd. to the north, Columbus Ave. to the east, and woods (and subdivisions) to the west.

Dates documented

First reported:	1998	Last reported:	2003-09-18

The New Hampshire Fish & Game Department has jurisdiction over rare wildlife in New Hampshire. Please contact them at 11 Hazen Drive, Concord, NH 03301 or at (603) 271-2461.

CONFIDENTIAL – NH Dept. of Environmental Services review

New Hampshire Natural Heritage Bureau - Animal Record

Spotted Turtle (*Clemmys guttata*)

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Demonstrably widespread, abundant, and secure
State:	Listed Threatened	State:	Imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Fair quality, condition and/or landscape context ('C' on a scale of A-D).
Comments on Rank: --

Detailed Description: 2006: Area 11682: 1 adult female seen.
General Area: --
General Comments: --
Management Comments: --

Location

Survey Site Name: Columbus Avenue, Dover
Managed By: Goldberg Park

County: Strafford
Town(s): Dover
Size: 18.3 acres
Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: 2006: Area 11682: Columbus Avenue, Dover.

Dates documented

First reported: 2006-06-06 Last reported: 2006-06-06

The New Hampshire Fish & Game Department has jurisdiction over rare wildlife in New Hampshire. Please contact them at 11 Hazen Drive, Concord, NH 03301 or at (603) 271-2461.

CONFIDENTIAL – NH Dept. of Environmental Services review

Supporting Documents

AVOIDANCE AND MINIMIZATION CHECKLIST

Water Division/Land Resources Management

Wetlands Bureau

Check the Status of your Application

RSA/Rule: RSA 482-A/ Env-Wt 311.07(c)

This checklist can be used in lieu of the written narrative required by Env-Wt 311.07(a) to demonstrate compliance with requirements for Avoidance and Minimization (A/M), pursuant to RSA 482-A:1 and Env-Wt 311.07(c).

For the construction or modification of non-tidal shoreline structures over areas of surface waters without wetland vegetation, complete only Sections 1, 2, and 4 (or the applicable sections in Attachment A: Minor and Major Projects (NHDES-W-06-013).

The following definitions and abbreviations apply to this worksheet:

- "A/M BMPs" stands for Wetlands Best Management Practice Techniques for Avoidance and Minimization dated 2019, published by the New England Interstate Water Pollution Control Commission (Env-Wt 102.18).
- "Practicable" means available and capable of being done after taking into consideration cost, existing technology, and logistics in light of overall project purposes (Env-Wt 103.62).

SECTION 1 - CONTACT/LOCATION INFORMATION	
APPLICANT LAST NAME, FIRST NAME, M.I.: Westfield, LLC	
PROJECT STREET ADDRESS: NH Route 9 - Littleworth Road	PROJECT TOWN: Dover, NH
TAX MAP/LOT NUMBER: G/2	

SECTION 2 - PRIMARY PURPOSE OF THE PROJECT		
Env-Wt 311.07(b)(1)	Indicate whether the primary purpose of the project is to construct a water-access structure or requires access through wetlands to reach a buildable lot or the buildable portion thereof.	☐ Yes ☒ No

If you answered "no" to this question, describe the purpose of the "non-access" project type you have proposed:

The applicant is proposing to subdivide a 58.91 acre parcel into 3 lots with associated site improvements, such as, site access, public roadways, grading, stormwater mitigation, and utilities. The proposed total impact to the wetlands is 1,231 sf.

SECTION 3 - A/M PROJECT DESIGN TECHNIQUES Check the appropriate boxes below in order to demonstrate that these items have been considered in the planning of the project. Use N/A (not applicable) for each technique that is not applicable to your project.		
Env-Wt 311.07(b)(2)	For any project that proposes new permanent impacts of more than one acre or that proposes new permanent impacts to a Priority Resource Area (PRA), or both, whether any other properties reasonably available to the applicant, whether already owned or controlled by the applicant or not, could be used to achieve the project's purpose without altering the functions and values of any jurisdictional area, in particular wetlands, streams, and PRAs.	☐ Check ☒ N/A
Env-Wt 311.07(b)(3)	Whether alternative designs or techniques, such as different layouts, construction sequencing, or alternative technologies could be used to avoid impacts to jurisdictional areas or their functions and values.	☒ Check ☐ N/A
Env-Wt 311.07(b)(4) Env-Wt 311.10(c)(1) Env-Wt 311.10(c)(2)	The results of the functional assessment required by Env-Wt 311.03(b)(10) were used to select the location and design for the proposed project that has the least impact to wetland functions.	☐ Check ☒ N/A
Env-Wt 311.07(b)(4) Env-Wt 311.10(c)(3)	Where impacts to wetland functions are unavoidable, the proposed impacts are limited to the wetlands with the least valuable functions on the site while avoiding and minimizing impacts to the wetlands with the highest and most valuable functions.	☒ Check ☐ N/A
Env-Wt 313.01(c)(1) Env-Wt 313.01(c)(2) Env-Wt 313.03(b)(1)	No practicable alternative would reduce adverse impact on the area and environments under the department's jurisdiction and the project will not cause random or unnecessary destruction of wetlands.	☒ Check ☐ N/A
Env-Wt 313.01(c)(3)	The project would not cause or contribute to the significant degradation of waters of the state or the loss of any PRAs.	☒ Check ☐ N/A
Env-Wt 313.03(b)(3) Env-Wt 904.07(c)(8)	The project maintains hydrologic connectivity between adjacent wetlands or stream systems.	☒ Check ☐ N/A
Env-Wt 311.10 A/M BMPs	Buildings and/or access are positioned away from high function wetlands or surface waters to avoid impact.	☒ Check ☐ N/A
Env-Wt 311.10 A/M BMPs	The project clusters structures to avoid wetland impacts.	☐ Check ☒ N/A
Env-Wt 311.10 A/M BMPs	The placement of roads and utility corridors avoids wetlands and their associated streams.	☐ Check ☒ N/A
A/M BMPs	The width of access roads or driveways is reduced to avoid and minimize impacts. Pullouts are incorporated in the design as needed.	☐ Check ☒ N/A
A/M BMPs	The project proposes bridges or spans instead of roads/driveways/trails with culverts.	☐ Check ☒ N/A

A/M BMPs	The project is designed to minimize the number and size of crossings, and crossings cross wetlands and/or streams at the narrowest point.	☒ Check ☐ N/A
Env-Wt 500 Env-Wt 600 Env-Wt 900	Wetland and stream crossings include features that accommodate aquatic organism and wildlife passage.	☐ Check ☒ N/A
Env-Wt 900	Stream crossings are sized to address hydraulic capacity and geomorphic compatibility.	☐ Check ☒ N/A
A/M BMPs	Disturbed areas are used for crossings wherever practicable, including existing roadways, paths, or trails upgraded with new culverts or bridges.	☒ Check ☐ N/A
SECTION 4 - NON-TIDAL SHORELINE STRUCTURES		
Env-Wt 313.03(c)(1)	The non-tidal shoreline structure has been designed to use the minimum construction surface area over surfaces waters necessary to meet the stated purpose of the structure.	☐ Check ☒ N/A
Env-Wt 313.03(c)(2)	The type of construction proposed for the non-tidal shoreline structure is the least intrusive upon the public trust that will ensure safe navigation and docking on the frontage.	☐ Check ☒ N/A
Env-Wt 313.03(c)(3)	The non-tidal shoreline structure has been designed to avoid and minimize impacts on the ability of abutting owners to use and enjoy their properties.	☐ Check ☒ N/A
Env-Wt 313.03(c)(4)	The non-tidal shoreline structure has been designed to avoid and minimize impacts to the public's right to navigation, passage, and use of the resource for commerce and recreation.	☐ Check ☒ N/A
Env-Wt 313.03(c)(5)	The non-tidal shoreline structure has been designed, located, and configured to avoid impacts to water quality, aquatic vegetation, and wildlife and finfish habitat.	☐ Check ☒ N/A
Env-Wt 313.03(c)(6)	The non-tidal shoreline structure has been designed to avoid and minimize the removal of vegetation, the number of access points through wetlands or over the bank, and activities that may have an adverse effect on shoreline stability.	☐ Check ☒ N/A

CIVILWORKS NEW ENGLAND

181 WATSON ROAD
P.O. BOX 1166
DOVER, NH 03821-1166
PHONE: 603.749.0443 FAX: 603.749.7348

Responses to specific rules:

Env-Wt 306.03

This project classifies as a minimum impact and is eligible for an expedited permit (EXP) application.

Env-Wt 306.05:

Env-Wt 306.05(a)(1)

The wetlands have been delineated by a certified wetland scientist.

Env-Wt 306.05(a)(2)(a)

The NHB DataCheck tool was utilized to find any documented occurrences of protected species and/or habitat. The DataCheck came back with recorded occurrences of Greater Fringed-Gentian (plant), Nuttall's Reed Grass (plant), New England Cottontail (vertebrate), Northern Black Racer (vertebrate), and the Spotted Turtle (vertebrate), near the proposed project area. Erosion control devices will be implemented around the perimeter of the proposed project area to prevent any silt from construction from washing into nearby wetlands or offsite.

Env-Wt 306.05(a)(2)(b)

There is no bog on or in the vicinity of the project property.

Env-Wt 306.05(a)(2)(c)

There is no floodplain wetland contiguous to a tier 3 or higher watercourse.

Env-Wt 306.05(a)(2)(d)

There is no prime wetland on or in the vicinity of the project property.

Env-Wt 306.05(a)(2)(e)

The proposed project is not located adjacent to a tidal watercourse.

Env-Wt 306.05(a)(3)(4)(5)

Not applicable.

Env-Wt 306.05(6)

Not applicable.

Env-Wt 306.05(7)

The WPPT was used to determine the location of impaired waters onsite. Erosion control devices will be implemented around the perimeter of the proposed project area to prevent any impact to impaired waters, class A waters, or outstanding resource waters.

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Env-Wt 306.06

Abutters have been notified.

Env-Wt 307.02

Not applicable.

Env-Wt 307.03

The proposed project is not anticipated to violate water quality standards. During construction an erosion control sock (Silt Sock) will be placed along the limits of work and at the toe of slope of all stockpiles to prevent silt from washing into the wetlands or off site.

Env-Wt 307.04

The proposed project is not anticipated to impact fisheries or breeding areas. During construction an erosion control sock will be placed along the limits of work and at the toe of slope of all stockpiles to prevent silt from washing into the wetlands or off site.

Env-Wt 307.05

There are no known invasive species within the proposed project area.

Env-Wt 307.06

The NHB DataCheck tool was utilized to find any documented occurrences of protected species or habitat. The DataCheck came back with recorded occurrences of Greater Fringed-Gentian (plant), Nuttall's Reed Grass (plant), New England Cottontail (vertebrate), Northern Black Racer (vertebrate), and the Spotted Turtle (vertebrate), near the proposed project area. Erosion control devices will be implemented around the perimeter of the proposed project area to prevent any silt from construction from washing into nearby wetlands or offsite.

Env-Wt 307.07

Not applicable.

Env-Wt 307.08

There are no designated prime wetlands located within the proposed project area.

Env-Wt 307.09

There are no proposed shoreline structures.

Env-Wt 307.10

Not applicable.

Env-Wt 307.11

The proposed project complies with all of Env-Wt 307.11. See application package for all supporting documentation. During all filling activities an erosion control sock (Silt Sock) will be placed along the

CIVILWORKS NEW ENGLAND
181 WATSON ROAD
P.O. BOX 1166
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PHONE: 603.749.0443 FAX: 603.749.7348

limits of work to prevent turbidity from escaping the immediate fill area. The erosion control sock (Silt Sock) will remain in place until all fill areas have been stabilized. The total fill of onsite wetlands is approximately 1,231 sf. There are no known public water supplies or intakes near the project site.

Env-Wt 307.12

See erosion control notes sheet for seeding and mulching specifications.

Env-Wt 307.13

The proposed project area complies with the property line setbacks as described in Env-Wt 307.13.

Env-Wt 307.14

Not applicable.

Env-Wt 307.15

No use of Heavy Equipment in wetlands is proposed from development besides the areas of fill. Timber and/or swamp mats will be installed to provide adequate support and minimize disturbance of wetland soil and vegetation. Total wetlands fill is 1,231 sf.

Env-Wt 307.16

Acknowledged.

Env-Wt 307.17

Acknowledged.

Env-Wt 307.18

Acknowledged.

Env-Wt 310.01

All application material has been provided within this submittal application.

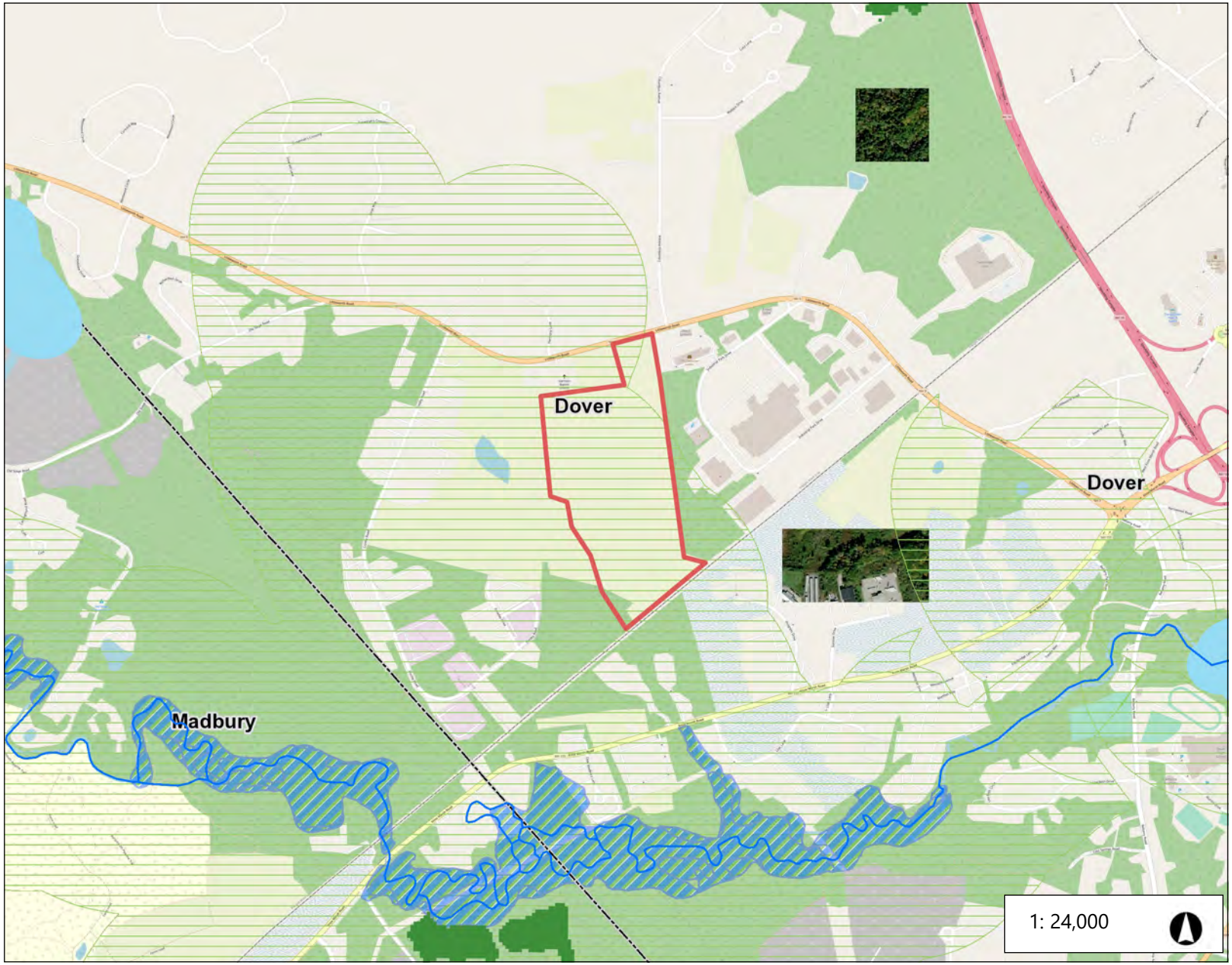
Env-Wt 310.02

Acknowledged.

Env-Wt 310.03

Acknowledged.

Your Organization | Westfield, LLC - WPPT



Legend

- Wetland_Permits_points
- Shoreland Act Urban Exemptic
- 4th Order and Above Streams
  - 4
  - 5
  - 6
  - 7
- Shoreland Jurisdiction - Lakes
- NH City/Town Boundaries
- Flood Plain Wetlands Adjacent
- Prime Wetlands with 100 ft But
- Prime Wetlands
- Designated Rivers
  - Subject to SWQPA
  - Not Subject to SWQPA
- Sand Dunes
  - backdune
  - foredune
  - interdune
  - other
- Tidal Waters / Tidal Wetlands
  - Tidal wetland
  - Transitional salt marsh
  - Salt marsh
  - Mud flat
  - Tidal water

Notes

Prepared by: Civilworks New England

0.8 0 0.38 0.8 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere

© Latitude Geographics Group Ltd.

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

National Flood Hazard Layer FIRMette

FEMA

70°54'54"W 43°11'24"N

70°54'16"W 43°10'58"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/28/2022 at 9:18 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Design Plans

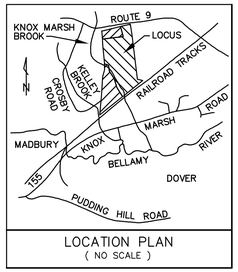
3 LOT SUBDIVISION
FOR
WESTFIELD, LLC.
TAX MAP G, LOT No. 2

NH ROUTE 9 - LITTLEWORTH ROAD

DOVER, NH

MARCH 22, 2022

APRIL 29, 2022



LOCATION PLAN
(NO SCALE)

OWNER

WESTFIELD, LLC.
340 CENTRAL AVENUE
SUITE 202
DOVER, NH 03820

_____ _____
DATE

SITE CIVIL ENGINEER

CIVILWORKS NEW ENGLAND
CIVIL & WATERFRONT ENGINEERING
181 Watson Road, PO Box 1166
Dover, New Hampshire 03821
603.749.0443

LAND SURVEYOR

MCENEANEY SURVEY ASSOCIATES OF NEW ENGLAND
P.O. BOX 681
24 CHESTNUT STREET
DOVER, NH 03820
(603) 742–0911

WETLAND SCIENTIST

BRUCE A. GILDAY, CWS
BAG LAND CONSULTANTS
43 ROCKINGHAM STREET
CONCORD, NH 03301
(603) 228–5775

SHEET INDEX	SHEET

COVER SHEET	1
NEIGHBORHOOD PLAN	2
SUBDIVISION PLAN (BY MCENEANEY SURVEY)	3 - 8
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NOTE SHEET	12
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TRUCK TURNING EXHIBIT	22-23

PLANNING FILE NO.: P22–23

ABUTTERS LIST (WITHIN 200 FT)

	TAX MAP	LOT NO.	NAME & ADDRESS
G G-2-1-0 / G G-2-0-0	G	G-2-0-0 G-2-1-0	WESTFIELD, LLC 340 CENTRAL AVENUE, STE 202 DOVER, NH 03820
G G-1-L-0	G	G-1-L-0	CHAUVIN ARNOUX INC. 15 FARADAY DRIVE DOVER, NH 03820
G G-31-1-0	G	G-31-1-0	MCQUIRE GROUP, LLC 50 CROSBY ROAD DOVER, NH 03820
G G-31-0-0	G	G-31-0-0	BRUCE CASWELL 66 LITTLEWORTH ROAD DOVER, NH, 03820
G G-2-2-0	G	G-2-2-0	WESTFIELD, LLC 340 CENTRAL AVENUE, STE 202 DOVER, NH 03820
F F-28-A-0	F	F-28-A-0	LUANNE K. SHOCKEY & DAVID MICHAEL HARVEY 73 LITTLEWORTH ROAD DOVER, NH 03820
F F-26-0-0 / H H-36-C-0	F H	F-26-0-0 H-36-C-0	PUBLIC SERVICE CO, OF NH PO BOX 330 MANCHESTER, NH 03105-0330
F F-26-A-0	F	F-26-A-0	LISA A. NUGENT 69 LITTLEWORTH ROAD DOVER, NH 03820
F F-27-0-0	F	F-27-0-0	DAVID L. RAVELING 67 LITTLEWORTH ROAD DOVER, NH 03820
G G-41-0-0	G	G-41-0-0	BT-NEWYO LLC ATTN.:55 GLENWAY PARKWAY NE ATLANT, GA 30828
G G-3-D-2	G	G-3-D-2	IWORX REAL ESTATE, LLC 62 LITTLEWORTH ROAD DOVER, NH 03820
G G-4-E-0	G	G-4-E-0	WELMANCH CORP C/O BT-NEWYO LLC ATTN.:55 GLENWAY PARKWAY NE ATLANT, GA 30828
G G-3-A-1	G	G-3-A-1	RECON REALTY, LLC 380 INDUSTRIAL pARK DOVER, NH 03820
G G-3-1-1-1	G	G-3-A-1-1	JUMAJA SEACOAST, LLC 74 INDUSTRIAL PARK ROAD DOVER, NH 03820
G G-3-C-0	G	G-3-C-0	SOLVETTA SALES, INC. 44 INDUSTRIAL PARK ROAD DOVER, NH 03820
G G-5-0-0	G	G-5-0-0	BOSTON & MAINE RR IRON HORSE PARK, HIGH STREET BILLERICA, MA, 01862
H H-31-0-0	H	H-31-0-0	RUTH K. SOUSANE & NANCY K. QUINLAN 64 LITTLEWORTH ROAD DOVER, NH 03820
H H-36-4-0	H	H-36-4-0	PROGRESS OF DOVER, LLC 8 PROGRESSIVE DRIVE DOVER, NH 03820
H H-36-5-0	H	H-36-5-0	RETROSI PROPERTIES, LLC 10 PROGRESS DRIVE DOVER, NH 03820
H H-36-B-1	H	H-36-B-1	NSA OPTIVEST AQUISITION HOLDINGS, LLC 221 KNOX MARSH ROAD DOVER, NH 03820

GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)

NOT FOR CONSTRUCTION FOR PERMIT USE ONLY

PLANNING FILE NO.: P22-23

CIVILWORKS NEW ENGLAND
CIVIL & WATERFRONT ENGINEERING
181 Watson Road, PO Box 1166
Dover, New Hampshire 03821
603.749.0443

NO.	REVISION	APP'D	DATE
1	PER TRC COMMENTS	SJH	4-29-2022

DESIGN BY: DJL
DRAWN BY: MJM
SCALE: 1" = 200'
DATE: 3-25-22
APPROVED BY: SJH
PROJECT NO: 1804.3
FILE: 1804-SITE SUBDIVISION

NEIGHBORHOOD PLAN

WESTFIELD, LLC.
340 CENTRAL AVENUE
SUITE 202
DOVER, NH, 03820

WESTFIELD, LLC
3 LOT SUBDIVISION
64 LITTLEWORTH ROAD
DOVER, NEW HAMPSHIRE

2

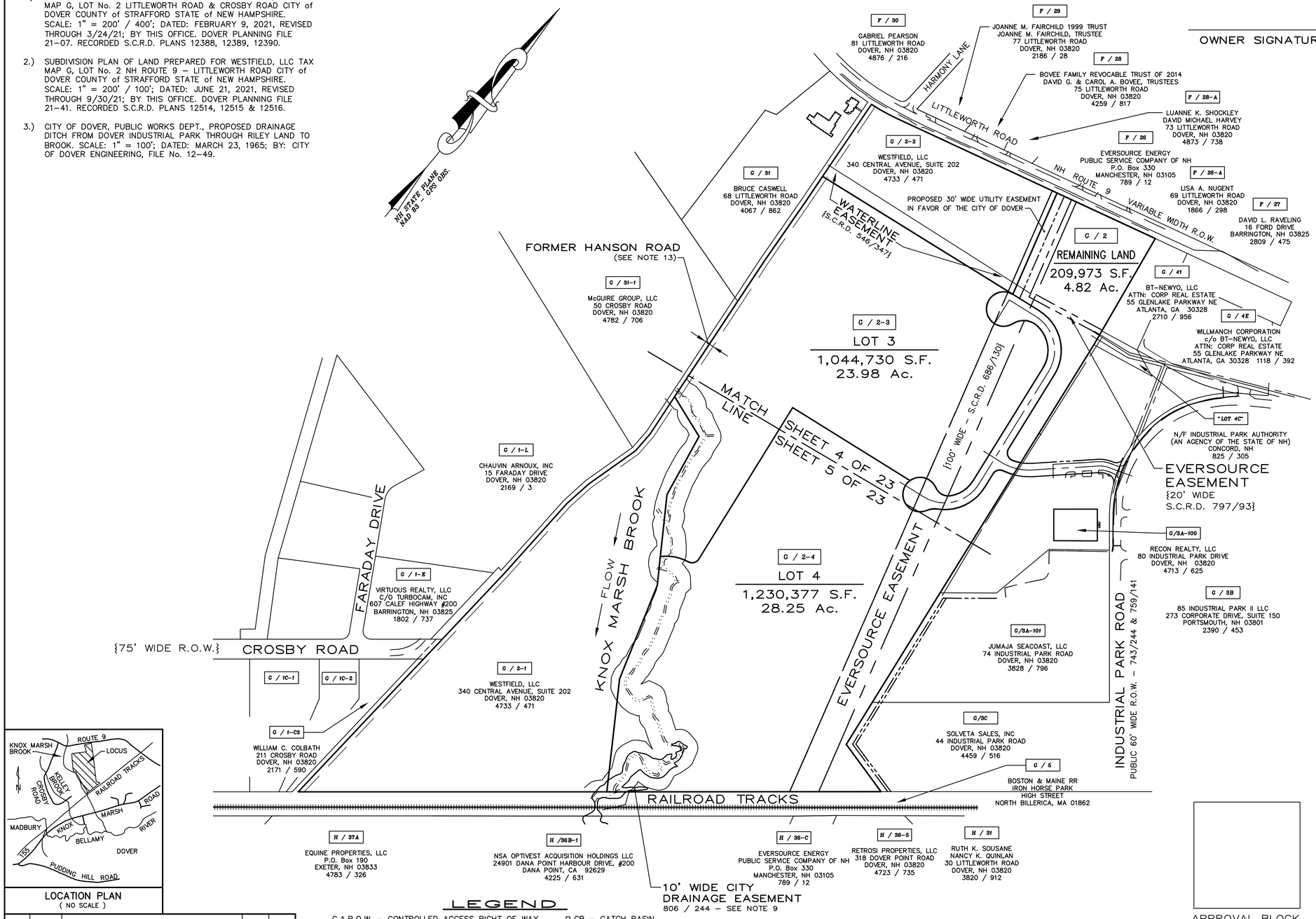
4/28/2022 15:18:01 File: \\CNEserver1\MSA Projects\2210\Dwgs\22-2210S.dwg Layout: 2210 SHEET 1 OF 3

REFERENCE PLANS:

1.) SUBDIVISION PLAN OF LAND PREPARED FOR WESTFIELD, LLC TAX MAP G, LOT No. 2 LITTLEWORTH ROAD & CROSBY ROAD CITY of DOVER COUNTY of STRAFFORD STATE of NEW HAMPSHIRE. SCALE: 1" = 200' / 400'; DATED: FEBRUARY 9, 2021, REVISED THROUGH 3/24/21; BY THIS OFFICE. DOVER PLANNING FILE 21-07. RECORDED S.C.R.D. PLANS 12388, 12389, 12390.

2.) SUBDIVISION PLAN OF LAND PREPARED FOR WESTFIELD, LLC TAX MAP G, LOT No. 2 NH ROUTE 9 – LITTLEWORTH ROAD CITY of DOVER COUNTY of STRAFFORD STATE of NEW HAMPSHIRE. SCALE: 1" = 200' / 100'; DATED: JUNE 21, 2021, REVISED THROUGH 9/30/21; BY THIS OFFICE. DOVER PLANNING FILE 21-41. RECORDED S.C.R.D. PLANS 12514, 12515 & 12516.

3.) CITY OF DOVER, PUBLIC WORKS DEPT., PROPOSED DRAINAGE DITCH FROM DOVER INDUSTRIAL PARK THROUGH RILEY LAND TO BROOK. SCALE: 1" = 100'; DATED: MARCH 23, 1965; BY: CITY OF DOVER ENGINEERING, FILE No. 12-49.



OWNER SIGNATURE

NOTES:

1.) OWNERS OF RECORD:
WESTFIELD, LLC
340 CENTRAL AVENUE, SUITE 202
DOVER, NEW HAMPSHIRE 03820
S.C.R.D. VOL. 4733, PAGE 471

2.) G / 2 – DENOTES TAX MAP AND PARCEL NUMBER.

3.) PLAN INTENT: TO SUBDIVIDE THE SUBJECT PARCEL INTO THREE (3) LOTS AS SHOWN. LOTS ARE SERVED BY MUNICIPAL SEWER AND WATER SERVICE.

4.) TOTAL PARCEL AREA: 2,566,225 S.F. / 58.91 Ac.

5.) ZONING DISTRICT: COMMERCIAL MANUFACTURING (CM) DISTRICT:

MINIMUM LOT SIZE	= 20,000 S.F.
LOT COVERAGE	= 50 PERCENT
MINIMUM FRONTAGE	= 100 FEET
FRONT SETBACK	= 35 FEET
SIDE SETBACK	= 10 FEET MIN.
REAR SETBACK	= 10 FEET MIN.
BUILDING HEIGHT	= 50 FEET MAX.

6.) A PORTION OF THE SUBJECT PARCEL IS LOCATED IN THE 0.2 PERCENT ANNUAL CHANCE FLOODPLAIN AS SHOWN ON FLOOD INSURANCE RATE MAP COMMUNITY NUMBER 330145; PANELS 0310 & 0320; SUFFIX E; MAP NUMBERS 33017C0310E & 33017C0320E; EFFECTIVE DATE SEPTEMBER 30, 2015, THAT AREA DIRECTLY ADJACENT TO THE RAILROAD TRACKS AT KNOX MARSH BROOK.

7.) BASIS OF BEARING IS NH STATE PLANE (NAD83) BASED ON GPS OBSERVATION DATED JANUARY 22, 2021.

8.) PROPERTY LINE INFORMATION HAS BEEN OBTAINED FROM A SURVEY PERFORMED BY MCENEANEY SURVEY ASSOCIATES OF NEW ENGLAND DURING JANUARY 2021 WITH AN ERROR NOT GREATER THAN 1 IN 10,000

9.) THE PARCEL IS SUBJECT TO A TEN (10) FOOT WIDE DRAINAGE EASEMENT GRANTED TO THE CITY OF DOVER, AS DESCRIBED IN S.C.R.D. VOLUME 806, PAGE 244. (SEE REFERENCE PLAN No. 3).

10.) THE PARCEL IS SUBJECT TO RIGHTS OF DOVER TO MAINTAIN A WATER LINE AS DESCRIBED IN S.C.R.D. VOLUME 546, PAGE 347.

11.) THE PARCEL IS SUBJECT TO A 100' WIDE EASEMENT GRANTED TO PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE DATED MARCH 12, 1958 AND DESCRIBED IN S.C.R.D. VOLUME 686, PAGE 130.

12.) THE PARCEL IS SUBJECT TO A 20' WIDE EASEMENT GRANTED TO PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE DATED MAY 27, 1965 AND DESCRIBED IN S.C.R.D. VOLUME 797, PAGE 93.

13.) HANSON ROAD (A/K/A HANSON WAY) IS AN UNIMPROVED 33' WIDE ROAD. THE CITY OF DOVER DISCONTINUED HANSON ROAD AS A PUBLIC WAY WITH THE 2008 RESOLUTION, R-2008.05.14-80. PER ACCEPTED PRACTICE, TITLE TO THE UNDERLYING LAND OF THE ROAD EXTENDS TO THE CENTERLINE FOR ABUTTING PARCELS. USE RIGHTS OF THE ENTIRE WIDTH OF HANSON ROAD MAY EXIST FOR ABUTTING OWNERS.

14.) SEE SHEETS 4 AND 5 OF 23 FOR PARCEL METES AND BOUNDS.

15.) THE PARCELS ARE SUBJECT TO A DOVER CONSERVATION OVERRIDING DISTRICT, 170-27B.(2), AREAS WITHIN FIFTY (50) FEET OF A FRESHWATER BROOK.

SEE NOTES CONTINUED ON SHEET 4 OF 23.

LOCATION PLAN
(NO SCALE)

LEGEND

C.A.R.O.W. – CONTROLLED ACCESS RIGHT OF WAY
S.F. – SQUARE FEET
Ac. – ACRE
(TYP.) – TYPICAL
± – MORE OR LESS
ø – DIAMETER
S.C.R.D. – STRAFFORD COUNTY REGISTRY OF DEEDS
-o- UP – UTILITY POLE

□ CB – CATCH BASIN
Ⓢ SMH – SEWER MANHOLE
G PP – GAS – PLASTIC PIPE
HDPE – HIGH DENSITY POLYETHYLINE
CMP – CORRUGATED METAL PIPE
RCP – REINFORCED CONCRETE PIPE
PVC – POLYVINYL CHLORIDE

NO.	DATE	DESCRIPTION	BY	CHK
1	4/28/22	REVISE PER TRC COMMENTS	RJM	KMM

REVISIONS

19-2210	SUBDIV.	20-13	65-75
PROJECT NO	TYPE	FIELDBOOK & PAGES	

APPROVAL BLOCK

"I HEREBY CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL GROUND SURVEY PERFORMED WITH A TOTAL STATION, BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, SAID SURVEY MEETS OR EXCEEDS THE MINIMUM PRECISION REQUIREMENTS FOR SURVEY CLASSIFICATION "U" AS SET FORTH IN TABLE 500.1 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS."

SUBDIVISION PLAN OF LAND
PREPARED FOR
WESTFIELD, LLC
TAX MAP G, LOT No. 2
NH ROUTE 9 – LITTLEWORTH ROAD
CITY of DOVER
COUNTY of STRAFFORD
STATE of NEW HAMPSHIRE

DOVER PLANNING FILE No. P 22-23

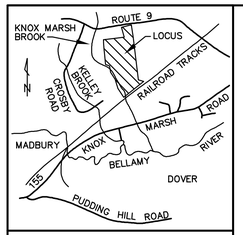
DRAWN BY: RJM	FILE: \2210\Dwgs\22-2210S
SCALE: 1" = 200'	DATE: MARCH 15, 2022

200 100 0 100 200 400 600 800

STATE OF NEW HAMPSHIRE – No. 661 – KEVIN M. McENEANEY – LICENSED LAND SURVEYOR – SIGNATURE

McEneaney Survey Associates of NEW ENGLAND
P.O. Box 681 – 24 CHESTNUT STREET
DOVER, NH 03820 (603) 742-0911
SURVEYING – PLANNING – CONSULTING

4/28/2022 15:19:31 File: \\CNEserver1\M&A Projects\2210\Drawings\22-2210S.dwg Layout: 2210 SHEET 2 OF 3



LOCATION PLAN
(NO SCALE)

NH STATE PLANE
NAD 83 GPS OBS.

F / 30
GABRIEL PEARSON
81 LITTLEWORTH ROAD
DOVER, NH 03820
4876 / 216

HARMONY LANE

F / 29
JOANNE M. FAIRCHILD 1999 TRUST
JOANNE M. FAIRCHILD, TRUSTEE
77 LITTLEWORTH ROAD
DOVER, NH 03820
2186 / 28

F / 28
BOVEE FAMILY REVOCABLE TRUST OF 2014
DAVID G. & CAROL A. BOVEE, TRUSTEES
75 LITTLEWORTH ROAD
DOVER, NH 03820
4259 / 817

F / 28-A
LUANNE K. SHOCKLEY
DAVID MICHAEL HARVEY
73 LITTLEWORTH ROAD
DOVER, NH 03820
4873 / 738

LITTLEWORTH ROAD / NH ROUTE 9

F / 26
EVERSOURCE ENERGY
PUBLIC SERVICE COMPANY OF NH
P.O. Box 330
MANCHESTER, NH 03105
789 / 12

F / 26-A
LISA A. NUGENT
69 LITTLEWORTH ROAD
DOVER, NH 03820
1866 / 298

F / 27
DAVID L. RAVELING
16 FORD DRIVE
BARRINGTON, NH 03825
2809 / 475

VARIABLE WIDTH R.O.W.

C / 31
BRUCE CASWELL
68 LITTLEWORTH ROAD
DOVER, NH 03820
4067 / 862

C / 2-2
WESTFIELD, LLC
340 CENTRAL AVENUE, SUITE 202
DOVER, NH 03820
4733 / 471

LIMITS OF FORMER HANSON ROAD RIGHT OF WAY

WATERLINE EASEMENT (SEE NOTE 10)

L2

N05°12'28"W 274.32'

N81°47'48"E 842.67'

C / 2-3
LOT 3
1,044,730 S.F.
23.98 Ac.

N16°23'24"W 416.75'

N74°55'12"E 408.04'

C / 2
REMAINING LAND
209,973 S.F.
4.82 Ac.

S09°56'54"E 461.57'

C / 41
BT-NEWYO, LLC
ATTN: CORP REAL ESTATE
55 GLENLAKE PARKWAY NE
ATLANTA, GA 30328
2710 / 956

C / 41E
WILLMANCH CORPORATION
c/o BT-NEWYO, LLC
ATTN: CORP REAL ESTATE
55 GLENLAKE PARKWAY NE
ATLANTA, GA 30328 1118 / 392

PROPOSED 30' WIDE UTILITY EASEMENT IN FAVOR OF THE CITY OF DOVER

EVERSOURCE EASEMENT (20' WIDE) (SEE NOTE 12)

CITY WATER MAIN EASEMENT
510 / 315 & 288 / 203

"LOT 4C"
N/F INDUSTRIAL PARK AUTHORITY
(AN AGENCY OF THE STATE OF NH)
CONCORD, NH
825 / 305

FORMER HANSON ROAD (SEE NOTE 13)

C / 31-1
McGUIRE GROUP, LLC
50 CROSBY ROAD
DOVER, NH 03820
4782 / 706

N06°32'55"W 185.10'

N06°32'55"W 429.88'

EDGE OF WETLAND (TYP.)
50' WETLAND BUFFER (TYP.)

C4 C5 C6 C7 C3

SMH
RIM = 115.0'

SMH
RIM = 115.1'

N71°33'50"W 175.63'

MATCH LINE SHEET 5 OF 23

S81°47'48"W 520.26'

EVERSOURCE EASEMENT (100' WIDE) (SEE NOTE 11)

499.47' S08°12'12"E

N08°12'12"W 327.29'

522.59' S08°12'12"E

C/3A-100
RECON REALTY, LLC
80 INDUSTRIAL PARK DRIVE
DOVER, NH 03820
4713 / 625

20' WIDE WATER MAIN EASEMENT
743/244 & 759/141

APPROXIMATE WATER MAIN LOCATION

C1 C2 L5 L3 C13 C14 C8 C9 C10

INDUSTRIAL PARK ROAD
PUBLIC 60' WIDE R.O.W.
743/244 & 759/141

C / 3B
85 INDUSTRIAL PARK II LLC
273 CORPORATE DRIVE, SUITE 150
PORTSMOUTH, NH 03801
2390 / 453

CONSERVATION DISTRICT (50' FROM REFERENCE LINE (TYP.)

N11°02'19"W 249.88'

KNOX MARSH BROOK FLOW (SEE NOTE 15)

670.31' S08°12'12"E

C / 2-1
WESTFIELD, LLC
340 CENTRAL AVENUE, SUITE 202
DOVER, NH 03820
4733 / 471

C / 2-4
LOT 4

C15 C16 C17

523.88' S08°12'12"E

APPROXIMATE WATER MAIN LOCATION

NOTES CONTINUED FROM SHEET 3 OF 23

16.) BUILDING ADDRESSES (INCLUDING APT/UNIT NUMBERS IF APPLICABLE) SHALL BE ASSIGNED BY THE BUILDING OFFICIAL AT THE TIME OF ISSUANCE OF A BUILDING PERMIT.

17.) WETLANDS ONSITE WERE IDENTIFIED UTILIZING THE 1987 FEDERAL TECHNICAL REPORT. THE DELINEATION WAS PERFORMED ON OCTOBER 5, 2021 BY BAG LAND CONSULTANTS (BRUCE A. GILDAY, CWS); 43 ROCKINGHAM STREET, CONCORD, NH 03301.

18.) GRANITE BOUNDS TO BE SET AT ALL ROADWAY POINTS OF CURVATURE AND POINTS OF TANGENCY. IRON RODS WITH SURVEY IDENTIFICATION CAPS TO BE SET AT ALL PROPERTY CORNERS.

OWNER SIGNATURE

* SEE SHEET 3 OF 23 FOR NOTES 1–15, REFERENCE PLANS AND LEGEND.
* SEE SHEET 5 OF 23 FOR LINE AND CURVE METES AND BOUNDS TABLES.

SHEET 4 OF 23

NO.	DATE	DESCRIPTION	BY	CHK
1	4/28/22	REVISE PER TRC COMMENTS	RJM	KMM

REVISIONS

19–2210	SUBDIV.	20–13	65–75
PROJECT NO	TYPE	FIELDBOOK & PAGES	

SUBDIVISION PLAN OF LAND
PREPARED FOR
WESTFIELD, LLC
TAX MAP G, LOT No. 2
NH ROUTE 9 – LITTLEWORTH ROAD
CITY of DOVER
COUNTY of STRAFFORD
STATE of NEW HAMPSHIRE

DOVER PLANNING FILE No. P 22–23

DRAWN BY: RJM	FILE: \2210\Dwgs\22-2210S
SCALE: 1" = 100'	DATE: MARCH 15, 2022

100 50 0 50 100 200 300 400

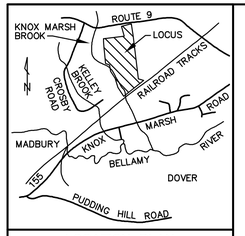
APPROVAL BLOCK

"I HEREBY CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL GROUND SURVEY PERFORMED WITH A TOTAL STATION, BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, SAID SURVEY MEETS OR EXCEEDS THE MINIMUM PRECISION REQUIREMENTS FOR SURVEY CLASSIFICATION "U" AS SET FORTH IN TABLE 500.1 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS."

STATE OF NEW HAMPSHIRE — No. 661 KEVIN M. McENEANEY — LICENSED LAND SURVEYOR — SIGNATURE

McEneaney Survey Associates of NEW ENGLAND
P.O. Box 681 – 24 CHESTNUT STREET
DOVER, NH 03820 (603) 742–0911

SURVEYING – PLANNING – CONSULTING



LOCATION PLAN
(NO SCALE)

NH STATE PLANE
NAD 83 - GPS OBS.

No.	Central Angle	Radius	Arc Length	Chord Length	Chord Bearing
C1	10°45'03"	175.00	32.84	32.79	S65°33'57"W
C2	100°51'20"	30.00	52.81	46.25	N58°37'52"W
C3	90°00'00"	175.00	274.89	247.49	N53°12'12"W
C4	122°08'53"	65.00	138.57	113.78	S20°43'22"W
C5	122°08'53"	65.00	138.57	113.78	N78°34'29"E
C6	74°02'18"	75.00	96.92	90.31	N54°31'12"E
C7	80°15'28"	125.00	175.10	161.13	S48°19'56"E
C8	48°41'42"	125.00	106.24	103.07	S16°08'40"W
C9	76°46'26"	50.00	67.00	62.10	S78°52'44"W
C10	102°50'57"	65.00	116.68	101.63	S65°50'28"W
C11	86°51'25"	30.00	45.48	41.25	S35°13'31"W
C12	35°41'14"	175.00	109.00	107.25	S60°48'36"W
C13	83°51'08"	30.00	43.90	40.09	N33°43'22"E
C14	10°29'42"	225.00	41.21	41.16	N70°24'06"E
C15	167°40'32"	65.00	190.22	129.25	S69°25'16"E
C16	32°05'34"	75.00	42.01	41.46	N42°47'15"E
C17	67°02'13"	175.00	204.75	193.27	N25°18'55"E

No.	Bearing	Distance
L1	S81°47'48"W	117.69'
L2	N05°49'11"W	109.82'
L3	N08°12'12"W	61.05'
L4	N33°53'16"W	109.23'
L5	N08°12'11"W	52.87'

C / 31-1
McGUIRE GROUP, LLC
50 CROSBY ROAD
DOVER, NH 03820
4782 / 706

FORMER HANSON ROAD
(SEE NOTE 13)

N71°33'50"W
175.63'

CONSERVATION DISTRICT
(50' FROM REFERENCE
LINE (TYP.)

C / 1-L
CHAUVIN ARNOUX, INC
15 FARADAY DRIVE
DOVER, NH 03820
2169 / 3

N11°02'19"W
249.86'

SHEET 4 OF 23 MATCH LINE

C / 2-3
LOT 3

S81°47'48"W
520.26'

N08°12'12"W
327.29'

S08°12'12"E
522.59'

S08°12'12"E
499.47'

APPROXIMATE WATER
MAIN LOCATION

C1 C2 C13 C14 L5 L3 C10 C9 C8 C15 C16 C17

C/3A-100
RECON REALTY, LLC
80 INDUSTRIAL PARK DRIVE
DOVER, NH 03820
4713 / 625

S08°12'12"E
523.88'

APPROXIMATE WATER
MAIN LOCATION

670.31'
S08°12'12"E

N33°53'16"W
234.64'

L4 C12 C11

C / 2-1
WESTFIELD, LLC
340 CENTRAL AVENUE, SUITE 202
DOVER, NH 03820
4733 / 471

C / 2-4
LOT 4
1,230,377 S.F.
28.25 Ac.

SMH
RIM = 102.4'
GROUND = 97.4'
SHELF @ IN = 93.7' (CONCRETE)
SHELF @ OUT = 93.3' (CONCRETE)
INV. IN = 93.2' 12" SDR
INV. OUT = 92.7' 12" SDR

SMH
RIM = 104.3'

C/3A-101
JUMAJA SEACOAST, LLC
74 INDUSTRIAL PARK ROAD
DOVER, NH 03820
3828 / 796

KNOX MARSH BROOK
FLOW
(SEE NOTE 15)

N18°02'44"W
379.68'

CONSERVATION DISTRICT
(50' FROM REFERENCE
LINE (TYP.)

EDGE OF WETLAND (TYP.)
50' WETLAND BUFFER (TYP.)

20' WIDE SEWER EASEMENT SCRD 849 / 488
10' WIDE WATER EASEMENT SCRD POCKET 6 FOLDER 2 PLAN 38D

671.15'
S08°12'12"E

C/3C
SOLVETA SALES, INC
44 INDUSTRIAL PARK ROAD
DOVER, NH 03820
4459 / 516

EVERSOURCE
EASEMENT
(100' WIDE)
(SEE NOTE 11)

S16°21'00"E
220.84'

S33°34'05"E 427.72'

1032.77'
S49°58'51"W

APPROVAL BLOCK

RAILROAD TRACKS

H /36B-1
NSA OPTIVEST ACQUISITION HOLDINGS LLC
24901 DANA POINT HARBOUR DRIVE, #200
DANA POINT, CA 92629
4225 / 631

10' WIDE CITY
DRAINAGE EASEMENT
806 / 244 - SEE NOTE 9

C / 5
BOSTON & MAINE RR
IRON HORSE PARK
HIGH STREET
NORTH BILLERICA, MA 01862

H / 36-C
EVERSOURCE ENERGY
PUBLIC SERVICE COMPANY OF NH
P.O. Box 330
MANCHESTER, NH 03105
789 / 12

H / 36-5
RETROSI PROPERTIES, LLC
318 DOVER POINT ROAD
DOVER, NH 03820
4723 / 735

H / 31
RUTH K. SOUSANE
NANCY K. QUINLAN
30 LITTLEWORTH ROAD
DOVER, NH 03820
3820 / 912

* SEE SHEET 3 OF 23 FOR REFERENCE PLANS AND LEGEND.

** SEE SHEET 4 OF 23 FOR NOTES CONTINUED.

OWNER SIGNATURE

SHEET 5 OF 23

NO.	DATE	DESCRIPTION	BY	CHK
1	4/28/22	REVISE PER TRC COMMENTS	RJM	KMM

REVISIONS

19-2210	SUBDIV.	20-13	65-75
PROJECT NO	TYPE	FIELDBOOK & PAGES	

"I HEREBY CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL GROUND SURVEY PERFORMED WITH A TOTAL STATION, BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, SAID SURVEY MEETS OR EXCEEDS THE MINIMUM PRECISION REQUIREMENTS FOR SURVEY CLASSIFICATION "U" AS SET FORTH IN TABLE 500.1 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS."

STATE OF NEW HAMPSHIRE
No. 661
KEVIN M. McENEANEY
LICENSED LAND SURVEYOR
SIGNATURE

SUBDIVISION PLAN OF LAND
PREPARED FOR
WESTFIELD, LLC
TAX MAP G, LOT No. 2
NH ROUTE 9 - LITTLEWORTH ROAD
CITY of DOVER
COUNTY of STRAFFORD
STATE of NEW HAMPSHIRE

DOVER PLANNING FILE No. P 22-23

DRAWN BY: RJM | FILE: \2210\Dwgs\22-2210S
SCALE: 1" = 100' | DATE: MARCH 15, 2022

100 50 0 50 100 200 300 400

McEneaney Survey Associates
of NEW ENGLAND
P.O. Box 681 - 24 CHESTNUT STREET
DOVER, NH 03820 (603) 742-0911

SURVEYING - PLANNING - CONSULTING

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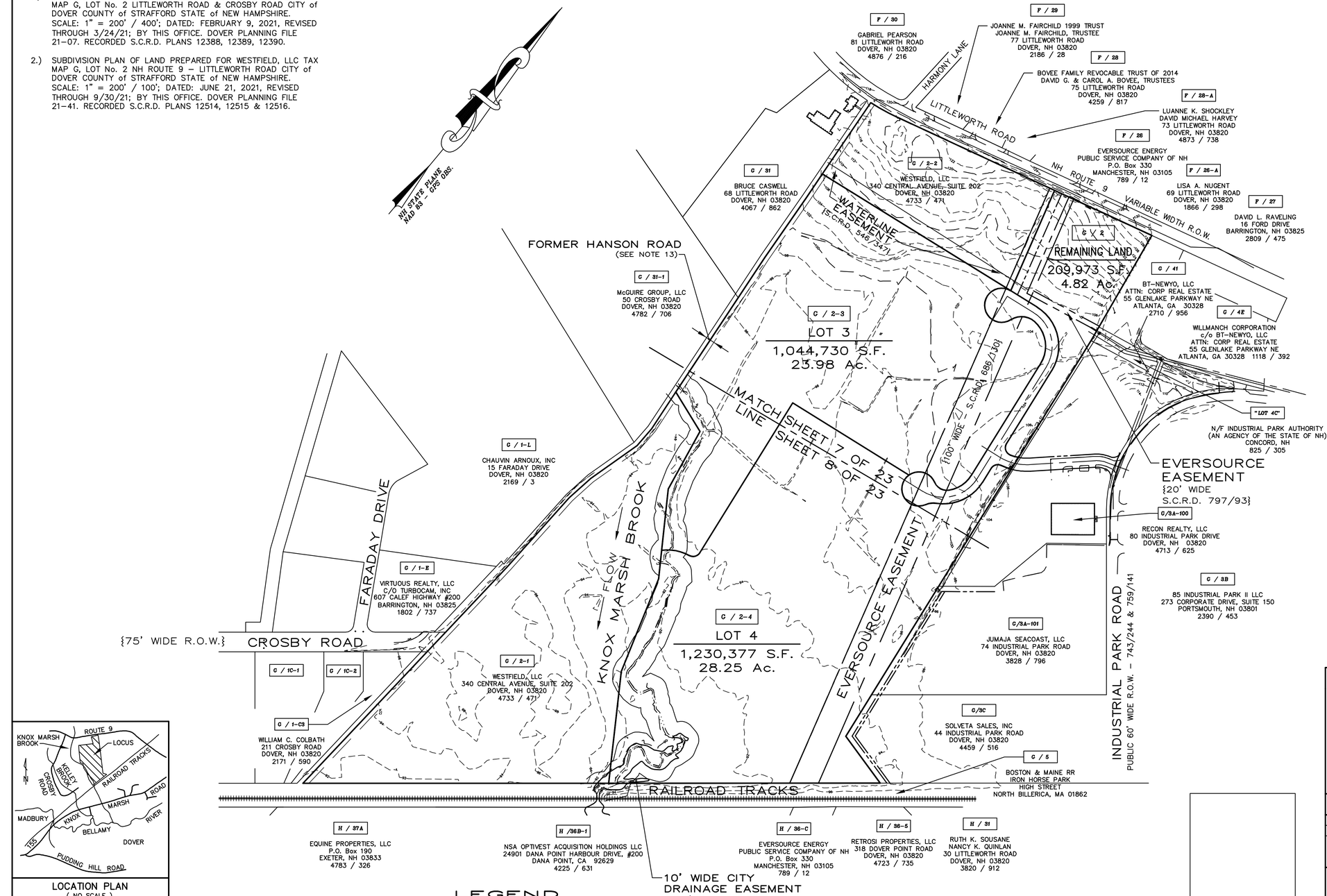
REFERENCE PLANS:

1.) SUBDIVISION PLAN OF LAND PREPARED FOR WESTFIELD, LLC TAX MAP G, LOT No. 2 LITTLEWORTH ROAD & CROSBY ROAD CITY of DOVER COUNTY of STRAFFORD STATE of NEW HAMPSHIRE. SCALE: 1" = 200' / 400'; DATED: FEBRUARY 9, 2021, REVISED THROUGH 3/24/21; BY THIS OFFICE. DOVER PLANNING FILE 21-07. RECORDED S.C.R.D. PLANS 12388, 12389, 12390.

2.) SUBDIVISION PLAN OF LAND PREPARED FOR WESTFIELD, LLC TAX MAP G, LOT No. 2 NH ROUTE 9 – LITTLEWORTH ROAD CITY of DOVER COUNTY of STRAFFORD STATE of NEW HAMPSHIRE. SCALE: 1" = 200' / 100'; DATED: JUNE 21, 2021, REVISED THROUGH 9/30/21; BY THIS OFFICE. DOVER PLANNING FILE 21-41. RECORDED S.C.R.D. PLANS 12514, 12515 & 12516.



LOCATION PLAN
(NO SCALE)

LEGEND

C.A.R.O.W. – CONTROLLED ACCESS RIGHT OF WAY
S.F. – SQUARE FEET
Ac. – ACRE
(TYP.) – TYPICAL
± – MORE OR LESS
ø – DIAMETER
S.C.R.D. – STRAFFORD COUNTY REGISTRY OF DEEDS
UP – UTILITY POLE
CB – CATCH BASIN
SMH – SEWER MANHOLE
G PP – GAS – PLASTIC PIPE
HDPE – HIGH DENSITY POLYETHYLINE
CMP – CORRUGATED METAL PIPE
RCP – REINFORCED CONCRETE PIPE
PVC – POLYVINYL CHLORIDE
128 – CONTOUR LINE (2 FOOT INTERVAL)

NO.	DATE	DESCRIPTION	BY	CHK
1	4/28/22	REVISE PER TRC COMMENTS	RJM	KMM
		REVISIONS		

19-2210	SUBDIV.	20-13	65-75
PROJECT NO	TYPE	FIELDBOOK & PAGES	

APPROVAL BLOCK

"I HEREBY CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL GROUND SURVEY PERFORMED WITH A TOTAL STATION, BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, SAID SURVEY MEETS OR EXCEEDS THE MINIMUM PRECISION REQUIREMENTS FOR SURVEY CLASSIFICATION "U" AS SET FORTH IN TABLE 500.1 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS."

NOTES:

1.) OWNERS OF RECORD:
WESTFIELD, LLC
340 CENTRAL AVENUE, SUITE 202
DOVER, NEW HAMPSHIRE 03820
S.C.R.D. VOL. 4733, PAGE 471

2.) G / 2 – DENOTES TAX MAP AND PARCEL NUMBER.

3.) PLAN INTENT: TO SUBDIVIDE THE SUBJECT PARCEL INTO THREE (3) LOTS AS SHOWN. LOTS ARE SERVED BY MUNICIPAL SEWER AND WATER SERVICE.

4.) TOTAL PARCEL AREA: 2,566,225 S.F. / 58.91 Ac.

5.) ZONING DISTRICT: COMMERCIAL MANUFACTURING (CM) DISTRICT:

MINIMUM LOT SIZE	= 20,000 S.F.
LOT COVERAGE	= 50 PERCENT
MINIMUM FRONTAGE	= 100 FEET
FRONT SETBACK	= 35 FEET
SIDE SETBACK	= 10 FEET MIN.
REAR SETBACK	= 10 FEET MIN.
BUILDING HEIGHT	= 50 FEET MAX.

6.) A PORTION OF THE SUBJECT PARCEL IS LOCATED IN THE 0.2 PERCENT ANNUAL CHANCE FLOODPLAIN AS SHOWN ON FLOOD INSURANCE RATE MAP COMMUNITY NUMBER 330145; PANELS 0310 & 0320; SUFFIX E; MAP NUMBERS 33017C0310E & 33017C0320E; EFFECTIVE DATE SEPTEMBER 30, 2015, THAT AREA DIRECTLY ADJACENT TO THE RAILROAD TRACKS AT KNOX MARSH BROOK.

7.) BASIS OF BEARING IS NH STATE PLANE (NAD83) BASED ON GPS OBSERVATION DATED JANUARY 22, 2021.

8.) PROPERTY LINE INFORMATION HAS BEEN OBTAINED FROM A SURVEY PERFORMED BY MCENEANEY SURVEY ASSOCIATES OF NEW ENGLAND DURING JANUARY 2021 WITH AN ERROR NOT GREATER THAN 1 IN 10,000

9.) THE PARCEL IS SUBJECT TO A TEN (10) FOOT WIDE DRAINAGE EASEMENT GRANTED TO THE CITY OF DOVER, AS DESCRIBED IN S.C.R.D. VOLUME 806, PAGE 244. (SEE REFERENCE PLAN No. 3).

10.) THE PARCEL IS SUBJECT TO RIGHTS OF DOVER TO MAINTAIN A WATER LINE AS DESCRIBED IN S.C.R.D. VOLUME 546, PAGE 347.

11.) THE PARCEL IS SUBJECT TO A 100' WIDE EASEMENT GRANTED TO PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE DATED MARCH 12, 1958 AND DESCRIBED IN S.C.R.D. VOLUME 686, PAGE 130.

12.) THE PARCEL IS SUBJECT TO A 20' WIDE EASEMENT GRANTED TO PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE DATED MAY 27, 1965 AND DESCRIBED IN S.C.R.D. VOLUME 797, PAGE 93.

13.) HANSON ROAD (A/K/A HANSON WAY) IS AN UNIMPROVED 33' WIDE ROAD. THE CITY OF DOVER DISCONTINUED HANSON ROAD AS A PUBLIC WAY WITH THE 2008 RESOLUTION, R-2008.05.14-80. PER ACCEPTED PRACTICE, TITLE TO THE UNDERLYING LAND OF THE ROAD EXTENDS TO THE CENTERLINE FOR ABUTTING PARCELS. USE RIGHTS OF THE ENTIRE WIDTH OF HANSON ROAD MAY EXIST FOR ABUTTING OWNERS.

14.) SEE SHEETS 7 AND 8 OF 23 FOR PARCEL METES AND BOUNDS.

15.) THE PARCELS ARE SUBJECT TO A DOVER CONSERVATION OVERRIDING DISTRICT, 170-27B.(2), AREAS WITHIN FIFTY (50) FEET OF A FRESHWATER BROOK.

SEE NOTES CONTINUED ON SHEET 7 OF 23.

TOPOGRAPHIC SUBDIVISION PLAN OF LAND
PREPARED FOR
WESTFIELD, LLC
TAX MAP G, LOT No. 2
NH ROUTE 9 – LITTLEWORTH ROAD
CITY of DOVER
COUNTY of STRAFFORD
STATE of NEW HAMPSHIRE

DOVER PLANNING FILE No. P 22-23

DRAWN BY: RJM	FILE: \2210\Dwgs\22-2210S
SCALE: 1" = 200'	DATE: MARCH 15, 2022

200 100 0 100 200 400 600 800

STATE OF NEW HAMPSHIRE LICENSED LAND SURVEYOR
No. 661
KEVIN M. McENEANEY
SIGNATURE

McEneaney Survey Associates of NEW ENGLAND
P.O. Box 681 – 24 CHESTNUT STREET
DOVER, NH 03820 (603) 742-0911
SURVEYING – PLANNING – CONSULTING

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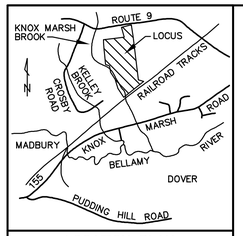

LOCATION PLAN
(NO SCALE)

NH STATE PLANE
NAD 83 _ GPS OBS.

HARMONY LANE

LITTLEWORTH ROAD / NH ROUTE 9

VARIABLE WIDTH R.O.W.

F / 30
GABRIEL PEARSON
81 LITTLEWORTH ROAD
DOVER, NH 03820
4876 / 216

F / 29
JOANNE M. FAIRCHILD 1999 TRUST
JOANNE M. FAIRCHILD, TRUSTEE
77 LITTLEWORTH ROAD
DOVER, NH 03820
2186 / 28

F / 28
BOVEE FAMILY REVOCABLE TRUST OF 2014
DAVID G. & CAROL A. BOVEE, TRUSTEES
75 LITTLEWORTH ROAD
DOVER, NH 03820
4259 / 817

F / 28-A
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DAVID MICHAEL HARVEY
73 LITTLEWORTH ROAD
DOVER, NH 03820
4873 / 738

F / 26
EVERSOURCE ENERGY
PUBLIC SERVICE COMPANY OF NH
P.O. Box 330
MANCHESTER, NH 03105
789 / 12

F / 26-A
LISA A. NUGENT
69 LITTLEWORTH ROAD
DOVER, NH 03820
1866 / 298

F / 27
DAVID L. RAVELING
16 FORD DRIVE
BARRINGTON, NH 03825
2809 / 475

G / 31
BRUCE CASWELL
68 LITTLEWORTH ROAD
DOVER, NH 03820
4067 / 862

LIMITS OF FORMER HANSON ROAD RIGHT OF WAY

WATERLINE EASEMENT (SEE NOTE 10)

G / 2-2
WESTFIELD, LLC
340 CENTRAL AVENUE, SUITE 202
DOVER, NH 03820
4733 / 471

G / 2-3
LOT 3
1,044,730 S.F.
23.98 Ac.

G / 2
REMAINING LAND
209,973 S.F.
4.82 Ac.

N05°12'28"W
274.32'

N81°47'48"E
842.67'

N16°23'24"W
416.75'

N74°55'12"E
408.04'

S09°56'54"E 461.57'

L2

L1

C4

C5

C6

C7

C3

18" HDPE CULVERT
INV. IN = 102.7'
INV. OUT = 102.5'

G / 41
BT-NEWYO, LLC
ATTN: CORP REAL ESTATE
55 GLENLAKE PARKWAY NE
ATLANTA, GA 30328
2710 / 956

G / 41E
WILLMANCH CORPORATION
c/o BT-NEWYO, LLC
ATTN: CORP REAL ESTATE
55 GLENLAKE PARKWAY NE
ATLANTA, GA 30328 1118 / 392

EVERSOURCE EASEMENT
(20' WIDE)
(SEE NOTE 12)

CITY WATER MAIN EASEMENT
510 / 315 & 288 / 203

18" CMP CULVERT
INV. = 107.9'

"LOT 4C"
N/F INDUSTRIAL PARK AUTHORITY
(AN AGENCY OF THE STATE OF NH)
CONCORD, NH
825 / 305

8" PVC CULVERT
INV. = 112.1'

SMH
RIM = 115.0'

15" RCP CULVERT
INV. = 112.1'

15" RCP CULVERT
INV. = 112.6'

CB
RIM = 115.9'

18" RCP CULVERT
INV. = 110.0'

SMH
RIM = 115.1'

20' WIDE WATER MAIN EASEMENT
743/244 & 759/141

FORMER HANSON ROAD
(SEE NOTE 13)

G / 31-1
McGUIRE GROUP, LLC
50 CROSBY ROAD
DOVER, NH 03820
4782 / 706

N06°32'55"W
185.10'

N06°32'55"W
429.88'

N71°33'50"W
175.63'

CONSERVATION DISTRICT
(50' FROM REFERENCE
LINE (TYP.)

N41°02'39"W
249.88'

KNOX MARSH BROOK FLOW
(SEE NOTE 15)

G / 2-1
WESTFIELD, LLC
340 CENTRAL AVENUE, SUITE 202
DOVER, NH 03820
4733 / 471

MATCH LINE & SHEET 8 OF 23

S81°47'48"W
520.26'

S08°12'12"E
670.31'

15" PVC CULVERT
INV. IN = 93.6'
INV. OUT = 93.6'

15" PVC TWIN CULVERTS
INV. IN = 93.1' N
INV. IN = 93.0' S
INV. OUT = 92.9' N
INV. OUT = 93.0' S

G / 2-4
LOT 4

EDGE OF WETLAND (TYP.)
50' WETLAND BUFFER (TYP.)

15" PVC CULVERT
INV. IN = 97.1'
INV. OUT = 96.8'

15" PVC CULVERT
INV. IN = 100.5'
INV. OUT = 100.1'

EVERSOURCE EASEMENT (100' WIDE) (SEE NOTE 11)

N08°12'12"W
327.29'

S08°12'12"E
522.59'

S08°12'12"E
499.47'

C8
C9
C10
C11
C12
C13
C14
C15
C16
C17
L3
L5

G/3A-100
RECON REALTY, LLC
80 INDUSTRIAL PARK DRIVE
DOVER, NH 03820
4713 / 625

24" HDPE CULVERT
INV. IN = 102.7'
INV. OUT = 102.6'

APPROXIMATE WATER MAIN LOCATION

APPROXIMATE WATER MAIN LOCATION

INDUSTRIAL PARK ROAD
PUBLIC 60' WIDE R.O.W.
743/244 & 759/141

G / 3B
85 INDUSTRIAL PARK II LLC
273 CORPORATE DRIVE, SUITE 150
PORTSMOUTH, NH 03801
2390 / 453

S23°08'
S08°12'12"E
523.08'

NOTES CONTINUED FROM SHEET 6 OF 23

16.) BUILDING ADDRESSES (INCLUDING APT/UNIT NUMBERS IF APPLICABLE) SHALL BE ASSIGNED BY THE BUILDING OFFICIAL AT THE TIME OF ISSUANCE OF A BUILDING PERMIT.

17.) WETLANDS ONSITE WERE IDENTIFIED UTILIZING THE 1987 FEDERAL TECHNICAL REPORT. THE DELINEATION WAS PERFORMED ON OCTOBER 5, 2021 BY BAG LAND CONSULTANTS (BRUCE A. GILDAY, CWS); 43 ROCKINGHAM STREET, CONCORD, NH 03301.

18.) GRANITE BOUNDS TO BE SET AT ALL ROADWAY POINTS OF CURVATURE AND POINTS OF TANGENCY. IRON RODS WITH SURVEY IDENTIFICATION CAPS TO BE SET AT ALL PROPERTY CORNERS.

APPROVAL BLOCK

* SEE SHEET 6 OF 23 FOR NOTES 1–15, REFERENCE PLANS AND LEGEND.

* SEE SHEET 8 OF 23 FOR LINE AND CURVE METES AND BOUNDS TABLES.

SHEET 7 OF 23

NO.	DATE	DESCRIPTION	BY	CHK
1	4/28/22	REVISE PER TRC COMMENTS	RJM	KMM

REVISIONS

19–2210	SUBDIV.	20–13	65–75
PROJECT NO	TYPE	FIELDBOOK & PAGES	

TOPOGRAPHIC SUBDIVISION PLAN OF LAND
PREPARED FOR
WESTFIELD, LLC
TAX MAP G, LOT No. 2
NH ROUTE 9 – LITTLEWORTH ROAD
CITY of DOVER
COUNTY of STRAFFORD
STATE of NEW HAMPSHIRE

DOVER PLANNING FILE No. P 22–23

DRAWN BY: RJM	FILE: \2210\Dwgs\22-2210S
SCALE: 1" = 100'	DATE: MARCH 15, 2022

100 50 0 50 100 200 300 400

"I HEREBY CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL GROUND SURVEY PERFORMED WITH A TOTAL STATION, BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, SAID SURVEY MEETS OR EXCEEDS THE MINIMUM PRECISION REQUIREMENTS FOR SURVEY CLASSIFICATION "U" AS SET FORTH IN TABLE 500.1 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS."

STATE OF NEW HAMPSHIRE — No. 661 KEVIN M. McENEANEY — LICENSED LAND SURVEYOR — SIGNATURE

McENEANEY SURVEY ASSOCIATES
of NEW ENGLAND
P.O. Box 681 – 24 CHESTNUT STREET
DOVER, NH 03820 (603) 742–0911

SURVEYING – PLANNING – CONSULTING

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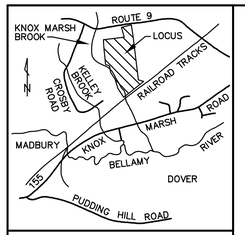
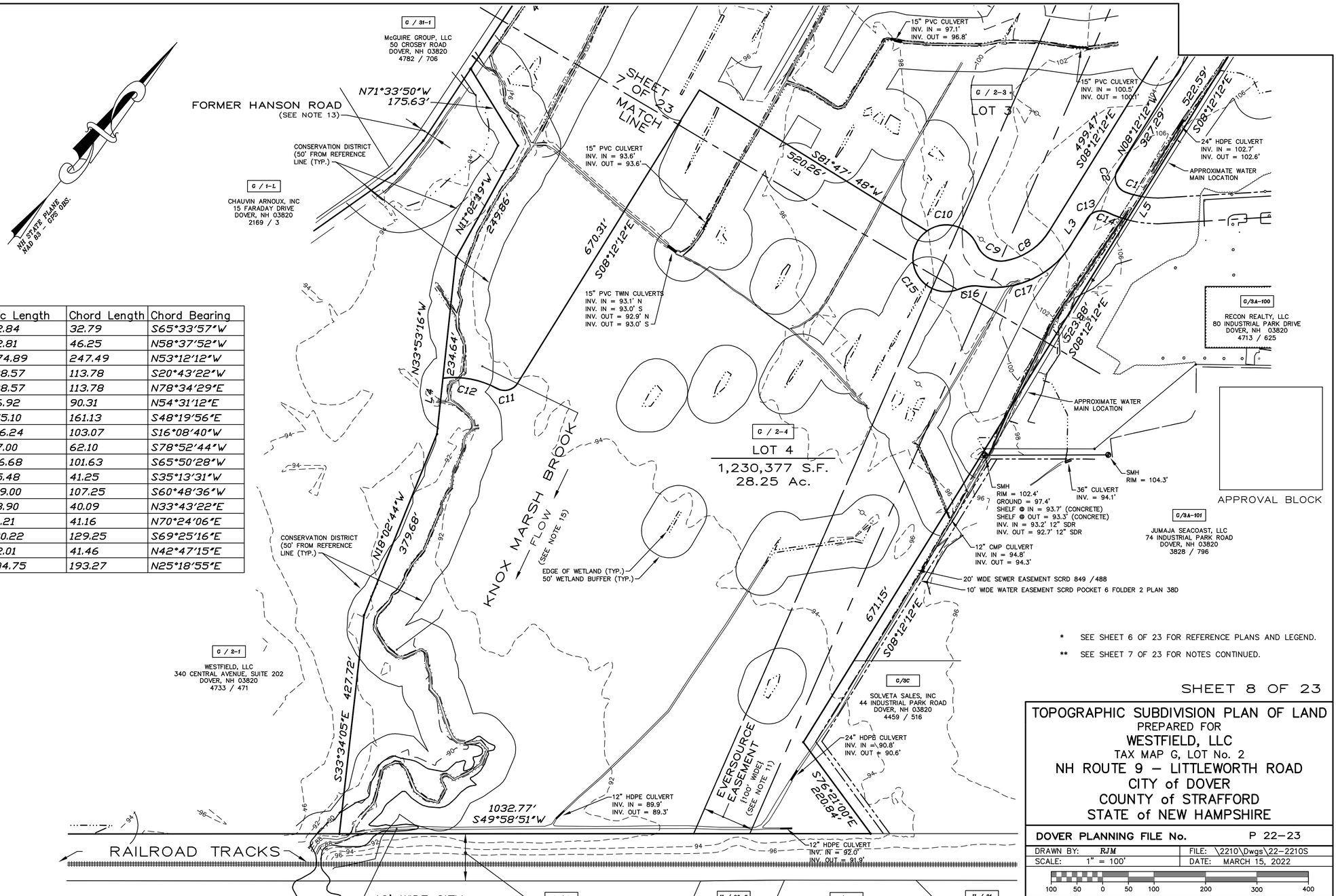


LOCATION PLAN
(NO SCALE)

NH STATE PLANE
NAD 83 - GPS OBS.

No.	Central Angle	Radius	Arc Length	Chord Length	Chord Bearing
C1	10°45'03"	175.00	32.84	32.79	S65°33'57"W
C2	100°51'20"	30.00	52.81	46.25	N58°37'52"W
C3	90°00'00"	175.00	274.89	247.49	N53°12'12"W
C4	122°08'53"	65.00	138.57	113.78	S20°43'22"W
C5	122°08'53"	65.00	138.57	113.78	N78°34'29"E
C6	74°02'18"	75.00	96.92	90.31	N54°31'12"E
C7	80°15'28"	125.00	175.10	161.13	S48°19'56"E
C8	48°41'42"	125.00	106.24	103.07	S16°08'40"W
C9	76°46'26"	50.00	67.00	62.10	S78°52'44"W
C10	102°50'57"	65.00	116.68	101.63	S65°50'28"W
C11	86°51'25"	30.00	45.48	41.25	S35°13'31"W
C12	35°41'14"	175.00	109.00	107.25	S60°48'36"W
C13	83°51'08"	30.00	43.90	40.09	N33°43'22"E
C14	10°29'42"	225.00	41.21	41.16	N70°24'06"E
C15	167°40'32"	65.00	190.22	129.25	S69°25'16"E
C16	32°05'34"	75.00	42.01	41.46	N42°47'15"E
C17	67°02'13"	175.00	204.75	193.27	N25°18'55"E

No.	Bearing	Distance
L1	S81°47'48"W	117.69'
L2	N05°49'11"W	109.82'
L3	N08°12'12"W	61.05'
L4	N33°53'16"W	109.23'
L5	N08°12'11"W	52.87'



* SEE SHEET 6 OF 23 FOR REFERENCE PLANS AND LEGEND.

** SEE SHEET 7 OF 23 FOR NOTES CONTINUED.

SHEET 8 OF 23

TOPOGRAPHIC SUBDIVISION PLAN OF LAND

PREPARED FOR
WESTFIELD, LLC
TAX MAP G, LOT No. 2
NH ROUTE 9 - LITTLEWORTH ROAD
CITY of DOVER
COUNTY of STRAFFORD
STATE of NEW HAMPSHIRE

DOVER PLANNING FILE No. P 22-23

DRAWN BY: RJM	FILE: \2210\Dwgs\22-2210S
SCALE: 1" = 100'	DATE: MARCH 15, 2022

100 50 0 50 100 200 300 400

NO.	DATE	DESCRIPTION	BY	CHK
1	4/28/22	REVISE PER TRC COMMENTS	RJM	KMM

REVISIONS

19-2210	SUBDIV.	20-13	65-75
PROJECT NO	TYPE	FIELDBOOK & PAGES	

"I HEREBY CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL GROUND SURVEY PERFORMED WITH A TOTAL STATION, BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, SAID SURVEY MEETS OR EXCEEDS THE MINIMUM PRECISION REQUIREMENTS FOR SURVEY CLASSIFICATION "U" AS SET FORTH IN TABLE 500.1 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS."

STATE OF NEW HAMPSHIRE — No. 661 — KEVIN M. McENEANEY — LICENSED LAND SURVEYOR
SIGNATURE

McEneaney Survey Associates
of NEW ENGLAND
P.O. Box 681 - 24 CHESTNUT STREET
DOVER, NH 03820 (603) 742-0911

SURVEYING - PLANNING - CONSULTING

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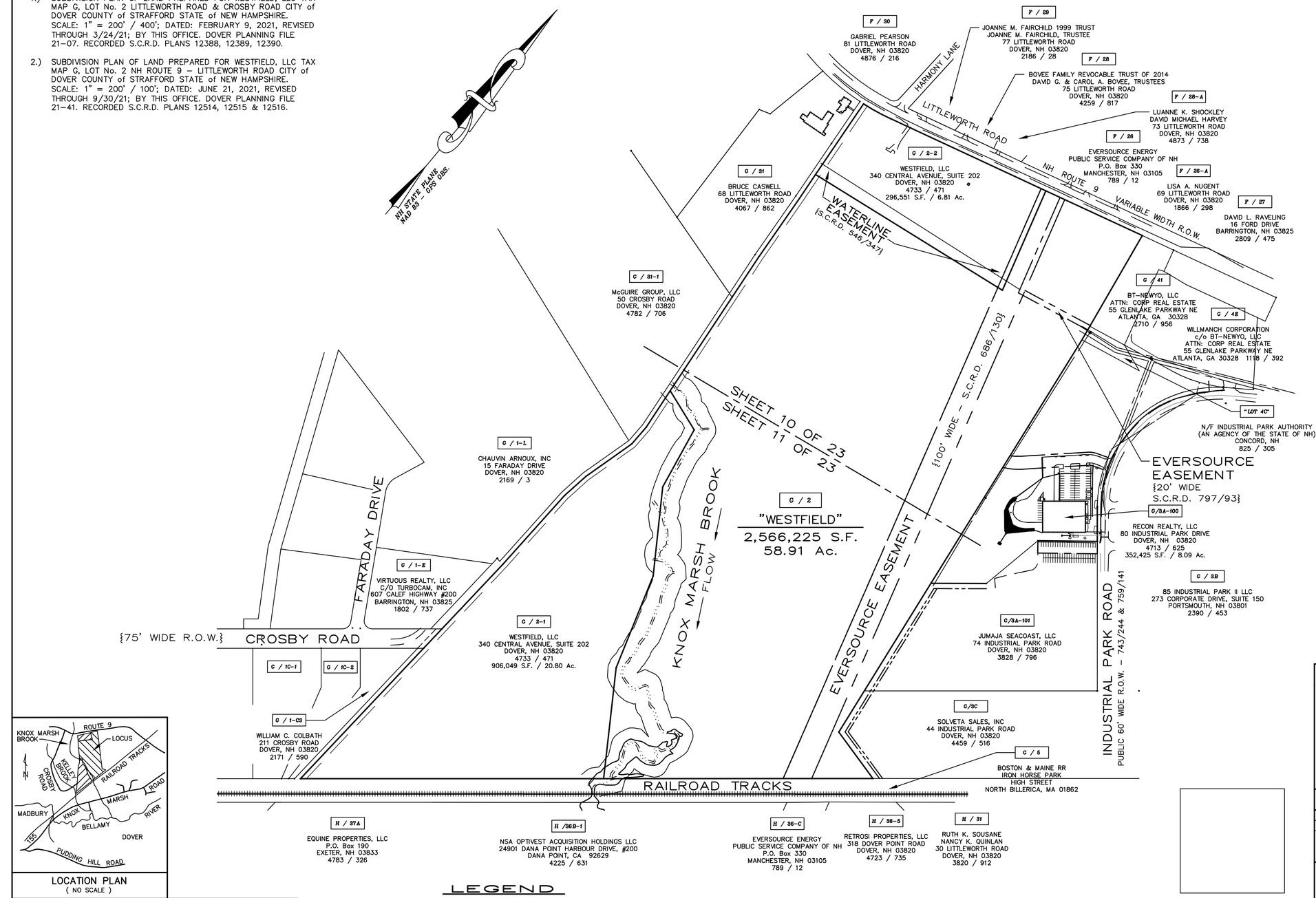
4/28/2022 15:22:28 File: \\CNEserver1\MSA Projects\2210\Drawings\23-2210 EC.dwg Layout: 2210 SHEET 1 OF 3

REFERENCE PLANS:

1.) SUBDIVISION PLAN OF LAND PREPARED FOR WESTFIELD, LLC TAX MAP G, LOT No. 2 LITTLEWORTH ROAD & CROSBY ROAD CITY of DOVER COUNTY of STRAFFORD STATE of NEW HAMPSHIRE. SCALE: 1" = 200' / 400'; DATED: FEBRUARY 9, 2021, REVISED THROUGH 3/24/21; BY THIS OFFICE. DOVER PLANNING FILE 21-07. RECORDED S.C.R.D. PLANS 12388, 12389, 12390.

2.) SUBDIVISION PLAN OF LAND PREPARED FOR WESTFIELD, LLC TAX MAP G, LOT No. 2 NH ROUTE 9 – LITTLEWORTH ROAD CITY of DOVER COUNTY of STRAFFORD STATE of NEW HAMPSHIRE. SCALE: 1" = 200' / 100'; DATED: JUNE 21, 2021, REVISED THROUGH 9/30/21; BY THIS OFFICE. DOVER PLANNING FILE 21-41. RECORDED S.C.R.D. PLANS 12514, 12515 & 12516.



LOCATION PLAN
(NO SCALE)

LEGEND

C.A.R.O.W. – CONTROLLED ACCESS RIGHT OF WAY
S.F. – SQUARE FEET
Ac. – ACRE
(TYP.) – TYPICAL
± – MORE OR LESS
ø – DIAMETER
S.C.R.D. – STRAFFORD COUNTY REGISTRY OF DEEDS
UP – UTILITY POLE
CB – CATCH BASIN
SMH – SEWER MANHOLE
G PP – GAS – PLASTIC PIPE
HDPE – HIGH DENSITY POLYETHYLINE
CMP – CORRUGATED METAL PIPE
RCP – REINFORCED CONCRETE PIPE
PVC – POLYVINYL CHLORIDE
– SOIL TEST PIT
128 – CONTOUR LINE (2 FOOT INTERVAL)

NO.	DATE	DESCRIPTION	BY	CHK
1	4/28/22	REVISE PER TRC COMMENTS	RJM	KMM
		REVISIONS		

19-2210	EXIST. COND.	20-13	65-75
PROJECT NO	TYPE	FIELDBOOK & PAGES	

NOTES:

1.) OWNERS OF RECORD:
WESTFIELD, LLC
340 CENTRAL AVENUE, SUITE 202
DOVER, NEW HAMPSHIRE 03820
S.C.R.D. VOL. 4733, PAGE 471 (200002182)

2.) G / 2 – DENOTES TAX MAP AND PARCEL NUMBER.

3.) PLAN INTENT: TO SHOW THE EXISTING SITE CONDITIONS. PARCEL IS SERVED BY MUNICIPAL SEWER AND WATER SERVICE.

4.) TOTAL PARCEL AREA: 2,566,225 S.F. / 58.91 Ac.

5.) ZONING DISTRICT: COMMERCIAL MANUFACTURING (CM) DISTRICT:

MINIMUM LOT SIZE	= 20,000 S.F.
LOT COVERAGE	= 50 PERCENT
MINIMUM FRONTAGE	= 100 FEET
FRONT SETBACK	= 35 FEET
SIDE SETBACK	= 10 FEET MIN.
REAR SETBACK	= 10 FEET MIN.
BUILDING HEIGHT	= 50 FEET MAX.

6.) A PORTION OF THE SUBJECT PARCEL IS LOCATED IN THE 0.2 PERCENT ANNUAL CHANCE FLOODPLAIN AS SHOWN ON FLOOD INSURANCE RATE MAP COMMUNITY NUMBER 330145; PANELS 0310 & 0320; SUFFIX E; MAP NUMBERS 33017C0310E & 33017C0320E; EFFECTIVE DATE SEPTEMBER 30, 2015, THAT AREA DIRECTLY ADJACENT TO THE RAILROAD TRACKS AT KNOX MARSH BROOK.

7.) BASIS OF BEARING IS NH STATE PLANE (NAD83) BASED ON GPS OBSERVATION DATED JANUARY 22, 2021.

8.) PROPERTY LINE INFORMATION HAS BEEN OBTAINED FROM A SURVEY PERFORMED BY MCENEANEY SURVEY ASSOCIATES OF NEW ENGLAND DURING JANUARY 2021 WITH AN ERROR NOT GREATER THAN 1 IN 10,000

9.) THE PARCEL IS SUBJECT TO A TEN (10) FOOT WIDE DRAINAGE EASEMENT GRANTED TO THE CITY OF DOVER, AS DESCRIBED IN S.C.R.D. VOLUME 806, PAGE 244. (SEE REFERENCE PLAN No. 14).

10.) THE PARCEL IS SUBJECT TO RIGHTS OF DOVER TO MAINTAIN A WATER LINE AS DESCRIBED IN S.C.R.D. VOLUME 546, PAGE 347.

11.) THE PARCEL IS SUBJECT TO A 100' WIDE EASEMENT GRANTED TO PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE DATED MARCH 12, 1958 AND DESCRIBED IN S.C.R.D. VOLUME 686, PAGE 130.

12.) THE PARCEL IS SUBJECT TO A 20' WIDE EASEMENT GRANTED TO PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE DATED MAY 27, 1965 AND DESCRIBED IN S.C.R.D. VOLUME 797, PAGE 93.

13.) HANSON ROAD (A/K/A HANSON WAY) IS AN UNIMPROVED 33' WIDE ROAD. THE CITY OF DOVER DISCONTINUED HANSON ROAD AS A PUBLIC WAY WITH THE 2008 RESOLUTION, R-2008.05.14-80. PER ACCEPTED PRACTICE, TITLE TO THE UNDERLYING LAND OF THE ROAD EXTENDS TO THE CENTERLINE FOR ABUTTING PARCELS. THE USE RIGHTS OF THE ENTIRE WIDTH OF HANSON ROAD MAY EXIST FOR ABUTTING OWNERS.

14.) SEE SHEETS 10 AND 11 OF 23 FOR PARCEL METES AND BOUNDS.

15.) THE PARCEL IS SUBJECT TO A DOVER CONSERVATION OVERRIDING DISTRICT, 170-27B.(2), AREAS WITHIN FIFTY (50) FEET OF A FRESHWATER BROOK. KNOX MARSH BROOK.

NOTES CONTINUED ON SHEET 10 OF 23.

APPROVAL BLOCK

"I HEREBY CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL GROUND SURVEY PERFORMED WITH A TOTAL STATION, BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, SAID SURVEY MEETS OR EXCEEDS THE MINIMUM PRECISION REQUIREMENTS FOR SURVEY CLASSIFICATION "U" AS SET FORTH IN TABLE 500.1 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS."

EXISTING CONDITIONS PLAN OF LAND
PREPARED FOR
WESTFIELD, LLC
TAX MAP G, LOT No. 2
NH ROUTE 9 – LITTLEWORTH ROAD
CITY of DOVER
COUNTY of STRAFFORD
STATE of NEW HAMPSHIRE

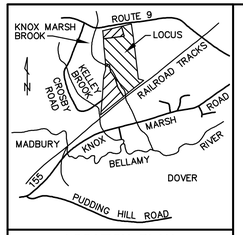
DOVER PLANNING FILE No. P 22-23

DRAWN BY: RJM	FILE: \2210\Dwgs\22-2210 EC
SCALE: 1" = 200'	DATE: FEBRUARY 2, 2022

200 100 0 100 200 400 600 800

STATE OF NEW HAMPSHIRE – LICENSED LAND SURVEYOR – No. 661 – KEVIN M. McENEANEY – SIGNATURE

McEneaney Survey Associates of NEW ENGLAND
P.O. Box 681 – 24 CHESTNUT STREET
DOVER, NH 03820 (603) 742-0911
SURVEYING – PLANNING – CONSULTING



LOCATION PLAN
(NO SCALE)

NH STATE PLANE NAD 83 _ GPS OBS.

No.	Central Angle	Radius	Arc Length	Chord Length	Chord Bearing
C1	07°28'41"	901.74	117.69	117.61	N78°39'33"E

No.	Bearing	Distance
L4	N05°49'11"W	109.82'

NOTES CONTINUED FROM SHEET 9 OF 23

16.) BUILDING ADDRESSES (INCLUDING APT/UNIT NUMBERS IF APPLICABLE) SHALL BE ASSIGNED BY THE BUILDING OFFICIAL AT THE TIME OF ISSUANCE OF A BUILDING PERMIT.

17.) WETLANDS ONSITE WERE IDENTIFIED UTILIZING THE 1987 FEDERAL TECHNICAL REPORT. THE DELINEATION WAS PERFORMED ON OCTOBER 5, 2021 BY BAG LAND CONSULTANTS (BRUCE A. GILDAY, CWS); 43 ROCKINGHAM STREET, CONCORD, NH 03301.

APPROVAL BLOCK

* SEE SHEET 9 OF 23 FOR NOTES 1–15, REFERENCE PLANS AND LEGEND.

SHEET 10 OF 23

F / 30 GABRIEL PEARSON 81 LITTLEWORTH ROAD DOVER, NH 03820 4876 / 216

F / 29 JOANNE M. FAIRCHILD 1999 TRUST JOANNE M. FAIRCHILD, TRUSTEE 77 LITTLEWORTH ROAD DOVER, NH 03820 2186 / 28

F / 28 BOVEE FAMILY REVOCABLE TRUST OF 2014 DAVID G. & CAROL A. BOVEE, TRUSTEES 75 LITTLEWORTH ROAD DOVER, NH 03820 4259 / 817

F / 28-A LUANNE K. SHOCKLEY DAVID MICHAEL HARVEY 73 LITTLEWORTH ROAD DOVER, NH 03820 4873 / 738

F / 26 EVERSOURCE ENERGY PUBLIC SERVICE COMPANY OF NH P.O. Box 330 MANCHESTER, NH 03105 789 / 12

F / 26-A LISA A. NUGENT 69 LITTLEWORTH ROAD DOVER, NH 03820 1866 / 298

F / 27 DAVID L. RAVELING 16 FORD DRIVE BARRINGTON, NH 03825 2809 / 475

C / 31 BRUCE CASWELL 68 LITTLEWORTH ROAD DOVER, NH 03820 4067 / 862

C / 2-2 WESTFIELD, LLC 340 CENTRAL AVENUE, SUITE 202 DOVER, NH 03820 4733 / 421 296,551 S.F. / 6.81 Ac.

C / 41 BT-NEWYO, LLC ATTN: CORP REAL ESTATE 55 GLENLAKE PARKWAY NE ATLANTA, GA 30328 2710 / 956

C / 41E WILLMANCH CORPORATION c/o BT-NEWYO, LLC ATTN: CORP REAL ESTATE 55 GLENLAKE PARKWAY NE ATLANTA, GA 30328 1118 / 392

C / 31-1 McGUIRE GROUP, LLC 50 CROSBY ROAD DOVER, NH 03820 4782 / 706

C / 2-1 WESTFIELD, LLC 340 CENTRAL AVENUE, SUITE 202 DOVER, NH 03820 4733 / 471 906,049 S.F. / 20.80 Ac.

C / 2 "WESTFIELD" 2,566,225 S.F. 58.91 Ac.

C / 3A-100 RECON REALTY, LLC 80 INDUSTRIAL PARK DRIVE DOVER, NH 03820 4713 / 625 352,425 S.F. / 8.09 Ac.

C / 3B 85 INDUSTRIAL PARK II LLC 273 CORPORATE DRIVE, SUITE 150 PORTSMOUTH, NH 03801 2390 / 453

"LOT 4C" N/F INDUSTRIAL PARK AUTHORITY (AN AGENCY OF THE STATE OF NH) CONCORD, NH 825 / 305

HARMONY LANE

LITTLEWORTH ROAD / NH ROUTE 9

VARIABLE WIDTH R.O.W.

INDUSTRIAL PARK ROAD PUBLIC 60' WIDE R.O.W. 743/244 & 759/141

L4 N05°49'11"W 327.68'

N74°55'12"E 656.99'

N74°55'12"E 408.04'

S16°23'24"E 416.75'

S09°56'54"E 461.57'

S81°47'48"W 842.67'

S08°12'12"E 1099.34'

L3 N06°32'55"W 167.45'

N06°32'55"W 429.88'

N06°32'55"W 185.10'

N05°12'28"W 274.32'

S11°33'50"E 175.63'

S11°02'19"E 249.86'

N14°44'36"E 215.65'

WATERLINE EASEMENT (SEE NOTE 10)

LIMITS OF FORMER HANSON ROAD RIGHT OF WAY

FORMER HANSON ROAD (SEE NOTE 13)

EVERSOURCE EASEMENT (100' WIDE) (SEE NOTE 11)

EVERSOURCE EASEMENT (20' WIDE) (SEE NOTE 12)

CITY WATER MAIN EASEMENT 510 / 315 & 288 / 203

20' WIDE WATER MAIN EASEMENT 743/244 & 759/141

18" HDPE CULVERT INV. IN = 102.7' INV. OUT = 102.5'

24" HDPE CULVERT INV. IN = 102.7' INV. OUT = 102.6'

18" CMP CULVERT INV. = 107.9'

8" PVC CULVERT INV. = 112.1'

15" RCP CULVERT INV. = 112.1'

15" RCP CULVERT INV. = 112.6'

18" RCP CULVERT INV. = 110.0'

SMH RIM = 115.0'

SMH RIM = 115.1'

CB RIM = 115.9'

15" PVC CULVERT INV. IN = 97.1' INV. OUT = 96.8'

15" PVC CULVERT INV. IN = 100.5' INV. OUT = 100.1'

15" PVC CULVERT INV. IN = 93.6' INV. OUT = 93.6'

15" PVC TWIN CULVERTS INV. IN = 93.1' N INV. IN = 93.0' S INV. OUT = 92.9' N INV. OUT = 93.0' S

EDGE OF WETLAND (TYP.) 50' WETLAND BUFFER (TYP.)

CONSERVATION DISTRICT (50' FROM REFERENCE LINE (TYP.)

KNOX MARSH BROOK FLOW (SEE NOTE 15)

APPROXIMATE WATER MAIN LOCATION

APPROXIMATE WATER MAIN LOCATION

MATCH LINE - SHEET 11 OF 23

NO.	DATE	DESCRIPTION	BY	CHK
1	4/28/22	REVISE PER TRC COMMENTS	RJM	KMM

REVISIONS

19-2210	EXIST. COND.	20-13	65-75
PROJECT NO	TYPE	FIELDBOOK & PAGES	

EXISTING CONDITIONS PLAN OF LAND
PREPARED FOR
WESTFIELD, LLC
TAX MAP G, LOT No. 2
NH ROUTE 9 – LITTLEWORTH ROAD
CITY of DOVER
COUNTY of STRAFFORD
STATE of NEW HAMPSHIRE

DOVER PLANNING FILE No. P 22-23

DRAWN BY: RJM | FILE: \2210\Dwgs\22-2210 EC
SCALE: 1" = 100' | DATE: FEBRUARY 2, 2022

100 50 0 50 100 200 300 400

"I HEREBY CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL GROUND SURVEY PERFORMED WITH A TOTAL STATION, BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, SAID SURVEY MEETS OR EXCEEDS THE MINIMUM PRECISION REQUIREMENTS FOR SURVEY CLASSIFICATION "U" AS SET FORTH IN TABLE 500.1 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS."

STATE OF NEW HAMPSHIRE No. 661 KEVIN M. McENEANEY LICENSED LAND SURVEYOR SIGNATURE

McENEANEY SURVEY ASSOCIATES of NEW ENGLAND
P.O. Box 681 – 24 CHESTNUT STREET
DOVER, NH 03820 (603) 742-0911

SURVEYING – PLANNING – CONSULTING

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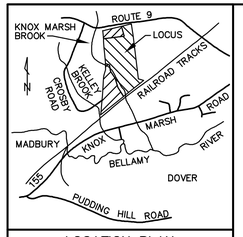

LOCATION PLAN
(NO SCALE)

No.	Bearing	Distance
L1	N03°21'27"E	103.15'
L2	N08°02'33"E	109.95'
L3	N00°50'14"E	84.52'

NH STATE PLANE MAD 83 GPS OBS.

C / 51-1
McGUIRE GROUP, LLC
50 CROSBY ROAD
DOVER, NH 03820
4782 / 706

C / 1-L
CHAUVIN ARNOUX, INC
15 FARADAY DRIVE
DOVER, NH 03820
2169 / 3

CONSERVATION DISTRICT (50' FROM REFERENCE LINE (TYP.)

FORMER HANSON ROAD (SEE NOTE 13)

N06°32'55"W 175.63'
N14°44'36"E 167.45'
N01°51'47"E 215.65'
N03°21'27"E 339.72'
S71°33'50"E 354.65'
S11°02'19"E 249.86'
S33°53'16"E 343.87'
S18°02'44"E 379.68'
S33°34'05"E 427.72'
S49°58'51"W 1032.77'
S08°12'12"E 1039.34'
S76°21'00"E 220.84'
S08°12'12"E 671.15'
N03°21'27"E 687.64'
S49°58'51"W 1162.72'

MATCH LINE SHEET 10 OF 23

15" PVC CULVERT
INV. IN = 97.1'
INV. OUT = 96.8'

15" PVC CULVERT
INV. IN = 100.5'
INV. OUT = 100.1'

15" PVC CULVERT
INV. IN = 93.6'
INV. OUT = 93.6'

15" PVC TWIN CULVERTS
INV. IN = 93.1' N
INV. IN = 93.0' S
INV. OUT = 92.9' N
INV. OUT = 93.0' S

24" HDPE CULVERT
INV. IN = 102.7'
INV. OUT = 102.6'

APPROXIMATE WATER MAIN LOCATION

APPROXIMATE WATER MAIN LOCATION

C / 2
"WESTFIELD"
2,862,775 S.F.
65.72 Ac.

C/3A-100
RECON REALTY, LLC
80 INDUSTRIAL PARK DRIVE
DOVER, NH 03820
4713 / 625
352,425 S.F. / 8.09 Ac.

SMH
RIM = 104.3'

36" CULVERT
INV. = 94.1'

SMH
RIM = 102.4'
GROUND = 97.4'
SHELF ⊕ IN = 93.7' (CONCRETE)
SHELF ⊕ OUT = 93.3' (CONCRETE)
INV. IN = 93.2' 12" SDR
INV. OUT = 92.7' 12" SDR

C/3A-101
JUMAJA SEACOAST, LLC
74 INDUSTRIAL PARK ROAD
DOVER, NH 03820
3828 / 796

12" CMP CULVERT
INV. IN = 94.8'
INV. OUT = 94.3'

20' WIDE SEWER EASEMENT SCRD 849 / 488
10' WIDE WATER EASEMENT SCRD POCKET 6 FOLDER 2 PLAN 38D

SMH 2874
RIM = 95.1'
INV. IN = 86.62' 8" PVC SMH 2875
INV. OUT = 86.42' 8" PVC
NEXT = [NORTH]

SMH 2875
RIM = 96.0'
INV. IN = 88.0' 8" SMH 2876
INV. IN = 87.9' 8" (SITE)
INV. OUT = 87.6' 8"
NEXT SMH 2874

SMH 2876
RIM = 96.5'
INV. IN = 88.8' 8" PVC [NORTH]
INV. OUT = 88.6' 8" PVC
NEXT SMH 2875

C / 1-E
VIRTUOUS REALTY, LLC
C/O TURBOCAM, INC
607 CALEF HIGHWAY #200
BARRINGTON, NH 03825
1802 / 737

FARADAY DRIVE

CROSBY ROAD
{75' WIDE R.O.W.}

SEWER 8"ø
GAS 4"ø PP
WATER

C / 2-1
WESTFIELD, LLC
340 CENTRAL AVENUE, SUITE 202
DOVER, NH 03820
4733 / 471
906,049 S.F. / 20.80 Ac.

C / 1-C3
WILLIAM C. COLBATH
211 CROSBY ROAD
DOVER, NH 03820
2171 / 590

C / 1C-1
C / 1C-2

LIMITS OF FORMER HANSON ROAD RIGHT OF WAY

KNOX MARSH BROOK FLOW (SEE NOTE 15)

EDGE OF WETLAND (TYP.)
50' WETLAND BUFFER (TYP.)

CONSERVATION DISTRICT (50' FROM REFERENCE LINE (TYP.)

C/3C
SOLVETA SALES, INC
44 INDUSTRIAL PARK ROAD
DOVER, NH 03820
4459 / 516

24" HDPE CULVERT
INV. IN = 90.8'
INV. OUT = 90.6'

EVERSOURCE EASEMENT (100' WIDE) (SEE NOTE 11)

12" HDPE CULVERT
INV. IN = 89.9'
INV. OUT = 89.3'

12" HDPE CULVERT
INV. IN = 92.0'
INV. OUT = 91.9'

RAILROAD TRACKS

10' WIDE CITY DRAINAGE EASEMENT
806 / 244 – SEE NOTE 9

C / 5
BOSTON & MAINE RR
IRON HORSE PARK
HIGH STREET
NORTH BILLERICA, MA 01862

H / 36B-1
NSA OPTIVEST ACQUISITION HOLDINGS LLC
24901 DANA POINT HARBOUR DRIVE, #200
DANA POINT, CA 92629
4225 / 631

H / 37A
EQUINE PROPERTIES, LLC
P.O. Box 190
EXETER, NH 03833
4783 / 326

H / 36-C
EVERSOURCE ENERGY
PUBLIC SERVICE COMPANY OF NH
P.O. Box 330
MANCHESTER, NH 03105
789 / 12

H / 36-5
RETROSI PROPERTIES, LLC
318 DOVER POINT ROAD
DOVER, NH 03820
4723 / 735

H / 31
RUTH K. SOUSANE
NANCY K. QUINLAN
30 LITTLEWORTH ROAD
DOVER, NH 03820
3820 / 912

* SEE SHEET 9 OF 23 FOR REFERENCE PLANS AND LEGEND.

** SEE SHEET 10 OF 23 FOR NOTES CONTINUED.

SHEET 11 OF 23

NO.	DATE	DESCRIPTION	BY	CHK
1	4/28/22	REVISE PER TRC COMMENTS	RJM	KMM

REVISIONS

19-2210	EXIST. COND.	20-13	65-75
PROJECT NO	TYPE	FIELDBOOK & PAGES	

APPROVAL BLOCK

"I HEREBY CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL GROUND SURVEY PERFORMED WITH A TOTAL STATION, BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, SAID SURVEY MEETS OR EXCEEDS THE MINIMUM PRECISION REQUIREMENTS FOR SURVEY CLASSIFICATION "U" AS SET FORTH IN TABLE 500.1 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS."

STATE OF NEW HAMPSHIRE — No. 661 KEVIN M. McENEANEY — LICENSED LAND SURVEYOR — SIGNATURE

McEneaney Survey Associates
of NEW ENGLAND
P.O. Box 681 – 24 CHESTNUT STREET
DOVER, NH 03820 (603) 742-0911

SURVEYING – PLANNING – CONSULTING

EXISTING CONDITIONS PLAN OF LAND
PREPARED FOR
WESTFIELD, LLC
TAX MAP G, LOT No. 2
NH ROUTE 9 – LITTLEWORTH ROAD
CITY of DOVER
COUNTY of STRAFFORD
STATE of NEW HAMPSHIRE

DOVER PLANNING FILE No. P 22-23

DRAWN BY: RJM | FILE: \2210\Dwgs\22-2210 EC
SCALE: 1" = 100' | DATE: FEBRUARY 2, 2022

100 50 0 50 100 200 300 400

4/28/2022 15:23:29 File: \CNEServer1\MSA Projects\2210\Drawings\22-2210 EC.dwg Layout: 2210 SHEET 3 OF 3

GENERAL NOTES:

1. OWNERS OF RECORD:

   WESTFIELD LLC.
   340 CENTRAL AVENUE
   SUITE 202
   DOVER, NEW HAMPSHIRE 03820
   S.C.R.D. VOL. 4733, PAGE 471

2. [G/2] – DENOTES TAX MAP AND PARCEL NUMBER.
3. ZONING DISTRICT IS COMMERCIAL MANUFACTURING (CM) DISTRICT
4. SEE SUBDIVISION PLAN OF LAND.

DEMOLITION NOTES:

1. COORDINATE REMOVAL, RELOCATION, DISPOSAL OR SALVAGE OF UTILITIES WITH THE OWNER AND APPROPRIATE UTILITY COMPANY.
2. ANY EXISTING WORK OR PROPERTY DAMAGED OR DISRUPTED BY CONSTRUCTION/DEMOLITION ACTIVITIES SHALL BE REPLACED OR REPAIRED TO MATCH ORIGINAL EXISTING CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
3. THE CONTRACTOR SHALL NOTIFY "DIG SAFE" PRIOR TO ANY DEMOLITION/ CONSTRUCTION ACTIVITIES. (811).
4. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, UTILITIES AND PAVEMENT ON THE SITE TO THE LIMITS SHOWN UNLESS SPECIFICALLY IDENTIFIED TO REMAIN.
5. IT IS THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH THE CONDITIONS OF ALL OF THE PERMIT APPROVALS.
6. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS NOT ALREADY OBTAINED BY THE OWNER AND ARRANGE AND PAY FOR NECESSARY INSPECTIONS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND OFF-SITE DISPOSAL OF MATERIALS REQUIRED TO COMPLETE THE WORK, EXCEPT FOR WORK NOTED TO BE COMPLETED BY OTHERS.
8. THE LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATION IS NOT GUARANTEED BY THE OWNER OR THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR EXISTING UTILITIES AND RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK.
9. ALL MATERIALS SCHEDULED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES, AND CODES.
10. ALL EROSION CONTROL NOTES SHALL INCLUDE PROVISIONS FOR CONSTRUCTION SEQUENCING, TEMPORARY EROSION CONTROL MEASURES, AND PERMANENT STANDARDS SUCH AS LOAM SPREAD RATE FOR DISTURBED AREAS, RATES OF LIME, TYPE AND RATES FOR FERTILIZER, AND SEED AND MULCH MIXTURE WITH RATES OF APPLICATION.

PERMIT SUMMARY:

1. THE FOLLOWING FEDERAL AND STATE PERMITS HAVE BEEN ISSUED FOR THE SUBJECT PROPERTY:
   N/A
2. LIST ANY VARIANCES OR SPECIAL EXCEPTIONS GRANTED BY THE ZONING BOARD OF ADJUSTMENT OR CONDITIONAL USE PERMITS GRANTED BY THE PLANNING BOARD FOR THE PROPOSED USE OR STRUCTURE, INCLUDING THE CASE NUMBER AND DATE OF DECISION AND ANY CONDITIONS.

   SUBDIVISION: PENDING
   CONDITIONAL USE PERMIT: PENDING

SITE NOTES

1. PROPERTY LINE INFORMATION HAS BEEN OBTAINED FROM A PLAN REFERENCED AND PREPARED BY MCENEANEY SURVEY ASSOCIATES OF NEW ENGLAND (SEE EXISTING CONDITIONS PLAN IN THIS PLAN SET).
2. THE PURPOSE OF THIS PLAN IS TO DEPICT ROADWAY IMPROVEMENTS ASSOCIATED WITH A 3 LOT SUBDIVISION.
3. LIGHTING SHALL BE CUT-OFF TYPE FIXTURES PER CHAPTER 153-14-E AND SHALL PROVIDE LIGHTING DIRECTED ON-SITE ONLY.
4. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO APPLICABLE CITY AND STATE CODES.
5. ON-SITE SNOW STORAGE SHALL OCCUR ALONG THE EDGES OF PROPOSED PAVEMENT.
6. ALL CONSTRUCTION LAYOUT SHALL BE DONE BY A LICENSED SURVEYOR UNDER CONTRACT WITH THE CONTRACTOR.
7. SEE DETAILS FOR SIGN LEGENDS.
8. ALL PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS, AND THE AMERICAN WITH DISABILITIES ACT, LATEST EDITIONS.
9. THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE CONSTRUCTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE FACILITIES AND THEIR COMPONENTS DURING DEMOLITION AND CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE OWNERS REPRESENTATIVE. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIE-DOWNS. SUCH MATERIALS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AT THE COMPLETION OF THE PROJECT.
10. METHODS OF DEMOLITION, CONSTRUCTION AND ERECTION ARE THE CONTRACTOR'S RESPONSIBILITY UNLESS OTHERWISE SPECIFIED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AND MAINTAIN ENVIRONMENTAL CONTROLS AS REQUIRED BY FEDERAL, STATE AND MUNICIPAL REGULATIONS AND PERMITS. ENVIRONMENTAL CONTROLS SHALL INCLUDE BUT SHALL NOT BE LIMITED TO DUST CONTROL AND SILT BARRIERS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO STRUCTURES OR UTILITIES OR INJURIES TO THE PUBLIC DURING THE CONSTRUCTION PHASE CAUSED BY HIMSELF, HIS EMPLOYEES, HIS SUBCONTRACTORS OR EMPLOYEES OF SAME. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TEMPORARY FACILITIES FOR THE PROTECTION OF THE WORK, WORKERS AND PUBLIC SAFETY.
12. BUILDING ADDRESSES TO BE ASSIGNED BY THE BUILDING OFFICIAL AT THE TIME OF ISSUANCE OF A BUILDING PERMIT.
13. THE SITE LAYOUT IS DESIGNED IN COMPLIANCE WITH APPLICABLE ACCESSIBILITY REGULATIONS AND NH RSA 155-A:5. THE PROPOSED STRUCTURE WILL ALSO BE DESIGNED IN ACCORDANCE WITH APPLICABLE ACCESSIBILITY REGULATIONS.
14. THE SITE SHALL BE MAINTAINED TO PROVIDE ACCESSIBILITY IN ALL WEATHER CONDITIONS.
15. COMMERCIAL VEHICLE ROUTE DURING CONSTRUCTION SHALL CONFORM WITH DOVER CITY CODE OR BE COORDINATED WITH THE COMMUNITY SERVICES DIRECTOR.
16. THE SUBJECT PARCEL(S) IS (ARE) SERVED BY MUNICIPAL WATER AND SEWER.
17. THE LIMITS OF CONSTRUCTION DISTURBANCE THAT ARE LOCATED IN OR WITHIN THE 50 FT. OF CONSERVATION AND WETLAND DISTRICTS SHALL BE STAKED, FLAGGED AND CLEARLY IDENTIFIED PRIOR TO ANY EARTH DISTURBANCE ACTIVITY OCCURRING.
18. AS-BUILT PLANS OF THE SITE SHALL BE SUBMITTED ON PAPER AND IN A DIGITAL FORMAT IN PDF AND AUTOCAD DWG, AUTOCAD DXF OR AN ESRI FORMAT TO THE CITY OF DOVER ENGINEER'S OFFICE UPON COMPLETION OF PROJECT. AS-BUILT PLANS SHALL BE PREPARED AND CERTIFIED CORRECT BY A L.L.S. OR P.E. DIGITAL FILES SHALL BE GEO-REFERENCED TO NEW HAMPSHIRE STATE PLANE COORDINATES NAD83 AND SHALL BE EXPRESSED IN FEET.
19. SITE CONSTRUCTION HOURS SHALL BE LIMITED TO MONDAY-FRIDAY 7 AM-6 PM, SATURDAY 9 AM-4 PM. NO CONSTRUCTION SHALL OCCUR ON SUNDAY OR DURING FEDERAL HOLIDAY HOURS. HOURS OF CONSTRUCTION MUST BE DOCUMENTED ON A SITE CONSTRUCTION SIGN ALONG WITH THE CONTACT INFORMATION FOR THE GENERAL CONTRACTOR AND THE SIGN SHALL NOTE THE THE ROADWAY IS PRIVATE. SAID SIGNAGE MUST BE LOCATED AND APPROVED BY THE DIRECTOR OF PLANNING.
20. A PRE-CONSTRUCTION CONFERENCE WITH THE DEVELOPER, THE DESIGN ENGINEER, THE EARTHWORK CONTRACTOR AND THE CITY ENGINEER SHALL OCCUR PRIOR TO ANY EARTH DISTURBING ACTIVITY.
21. ALL CONSTRUCTION SHALL CONFORM WITH THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION (NHDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND WITH THE CITY OF DOVER COMMUNITY SERVICES REGULATIONS AND STANDARD SPECIFICATION FOR CONSTRUCTION. THE MORE STRINGENT SPECIFICATION SHALL APPLY.
22. ANY RETAINING WALL TALLER THAN FOUR FEET (4') REQUIRES ISSUANCE OF A BUILDING PERMIT FROM INSPECTION SERVICES.
23. ANY FENCE TALLER THAN SEVEN FEET (7') REQUIRES THE ISSUANCE OF A BUILDING PERMIT FROM INSPECTION SERVICES.
24. APPLICANT SHALL COMPLETE LAND USE DEVELOPMENT TRACKING FORM, MOST RECENTLY REVISED VERSION, UTILIZING THE ONLINE POLLUTION TRACKING AND ACCOUNTING PILOT PROJECT (PTAPP) PORTAL.
    HTTP://WWW.UNH.EDU/UNHSC/PTAPP.
25. A LETTER OF CREDIT FOR THE COST OF REVEGETATING ALL DISTURBED AREAS ON THE SITE SHALL BE SUBMITTED PRIOR TO ANY EARTH DISTURBING ACTIVITY OCCURS.
26. THE OWNER OF RECORD SHALL RECORD AT THE REGISTRY OF DEEDS DOCUMENTATION SUFFICIENT TO PROVIDE NOTICE TO ALL PERSONS/ENTITIES THAT MAY ACQUIRE ANY PROPERTY SUBJECT TO THE REQUIREMENTS AND RESPONSIBILITIES DESCRIBED IN THE APPROVED STORMWATER MANAGEMENT PLAN, THE NOTICE SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS FOR RECORDING CONTAINED IN RSA 477 AND 478. THE NOTICE NEED NOT SET FORTH THE REQUIREMENTS AT LENGTH, SO LONG AS IT IS SUFFICIENT TO PROVIDE NOTICE TO PROSPECTIVE PURCHASERS TO THE REQUIREMENTS FOR MAINTENANCE AND REPORTING.
27. FIRE DEPARTMENT ACCESS SHALL BE INSTALLED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS IN ALL WEATHER CONDITIONS AT ALL TIMES.
28. THE CITY OF DOVER PLANNING BOARD FOUND THAT THE CRITERIA OF CHAPTER 153-21.A HAS BEEN MET.

UTILITY NOTES

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE NOT GUARANTEED BY THE OWNER OR ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR EXISTING UTILITIES, AND RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER.
2. SEE EXISTING CONDITIONS PLAN FOR BENCHMARK INFORMATION.
3. THE INSTALLATION OF ELECTRIC POWER, CABLE TELEVISION AND TELEPHONE LINES SHALL BE UNDERGROUND THROUGHOUT THE SITE FOR WHICH DEVELOPMENT IS PROPOSED. SITE PLANS SHALL SHOW ANY EASEMENTS FOR THESE SERVICES.
4. ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES TO FACILITATE PULLING CABLES.
5. THE SUBJECT PARCEL(S) IS (ARE) SERVED BY MUNICIPAL WATER AND SEWER.
6. SEE GRADING, DRAINAGE & EROSION CONTROL PLAN FOR PROPOSED GRADING AND EROSION CONTROL MEASURES.
7. ALL WATER MAIN INSTALLATIONS SHALL BE CLASS 52, DOUBLE CEMENT LINED DUCTILE IRON PIPE OR TYPE "K" COPPER, OR CITY APPROVED MATERIAL.
8. ALL WATER MAIN INSTALLATIONS SHALL BE PRESSURE TESTED AND CHLORINATED AFTER CONSTRUCTION PRIOR TO ACTIVATING THE SYSTEM. CONTRACTOR SHALL COORDINATE CHLORINATION AND TESTING WITH THE CITY OF DOVER WATER DEPARTMENT.
9. ALL GRAVITY SEWER PIPE SHALL BE PVC SDR 35 UNLESS OTHERWISE NOTED AND CONFORM TO THE REQUIREMENTS OF THE CITY OF DOVER SEWER DEPARTMENT STANDARDS.
10. EXISTING UTILITIES TO BE REMOVED SHALL BE CAPPED AT THE MAIN AND MEET THE CITY OF DOVER COMMUNITY SERVICES DEPARTMENT STANDARDS FOR CAPPING OF WATER AND SEWER SERVICES.
11. ALL ELECTRICAL MATERIAL WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, LATEST EDITION, AND ALL APPLICABLE STATE AND LOCAL CODES.
12. THE EXACT LOCATION OF NEW UTILITY SERVICES AND CONNECTIONS SHALL BE COORDINATED WITH THE BUILDING DRAWINGS AND THE UTILITY COMPANIES.
13. ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE.
14. THE CONTRACTOR SHALL OBTAIN, PAY FOR, AND COMPLY WITH ALL REQUIRED PERMITS, ARRANGE FOR ALL INSPECTIONS, AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATES TO THE OWNER PRIOR TO THE COMPLETION OF THIS PROJECT.
15. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, BOXES, FITTINGS, CONNECTORS, COVER PLATES, AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER INSTALLATION OF UTILITIES COMPLETE AND OPERATIONAL.
16. CONTRACTOR SHALL PROVIDE EXCAVATION, BEDDING, BACKFILL AND COMPACTION FOR NATURAL GAS SERVICES. COORDINATE WITH GAS COMPANY.
17. A 10-FOOT MINIMUM EDGE TO EDGE HORIZONTAL SEPARATION SHALL BE PROVIDED BETWEEN ALL WATER AND SANITARY SEWER LINES. AN 18-INCH MINIMUM OUTSIDE TO OUTSIDE VERTICAL SEPARATION SHALL BE PROVIDED AT ALL WATER/SANITARY SEWER CROSSINGS.
18. THE CONTRACTOR SHALL CONTACT "DIG-SAFE" 72 HOURS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL HAVE THE "DIG-SAFE" NUMBER ON SITE AT ALL TIMES.
19. SAWCUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN
20. GATE VALVES, FITTINGS, ETC. SHALL MEET THE REQUIREMENTS OF THE CITY OF DOVER.
21. COORDINATE TESTING OF SEWER CONSTRUCTION WITH THE CITY OF DOVER.
22. CONTRACTOR SHALL COORDINATE ALL ELECTRIC WORK INCLUDING BUT NOT LIMITED TO: CONDUIT CONSTRUCTION, MANHOLE CONSTRUCTION, UTILITY POLE CONSTRUCTION, OVERHEAD WIRE RELOCATION, AND TRANSFORMER CONSTRUCTION WITH POWER COMPANY.
23. CONTRACTOR SHALL PHASE UTILITY CONSTRUCTION, PARTICULARLY WATER MAIN AND GAS MAIN CONSTRUCTION AS TO MAINTAIN CONTINUOUS SERVICE TO ABUTTING PROPERTIES. CONTRACTOR SHALL COORDINATE TEMPORARY SERVICES TO ABUTTERS WITH THE UTILITY COMPANY AND AFFECTED ABUTTER.
24. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE CITY AND STATE CODES.
25. COORDINATE ALL UTILITY WORK WITH APPROPRIATE UTILITY COMPANY.
26. NO ROADWAY WITH PRIVATE UTILITY EASEMENTS SHALL BE ACCEPTED AS A PUBLIC ROAD BY THE CITY UNLESS THE EASEMENTS ARE EXPUNGED PRIOR TO TRANSFER OF LAND TO THE CITY. LICENSE AGREEMENTS FOR ANY AND ALL PRIVATE UTILITIES WITHIN THE RIGHT OF WAY MAY BE GRANTED BY THE CITY UPON ACCEPTANCE OF THE UNENCUMBERED ROADWAY CONSISTENT WITH APPLICABLE STATE LAW.

GRADING NOTES:

1. ALL ROAD DRAINAGE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR CONSTRUCTION OF THE CITY OF DOVER, N.H. AND "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF NEW HAMPSHIRE, DEPARTMENT OF TRANSPORTATION", LATEST EDITION. THE MORE STRINGENT SPECIFICATION SHALL APPLY.
2. CONTRACTOR SHALL RETAIN A GEOTECHNICAL ENGINEERING CONSULTANT APPROVED BY THE OWNER, TO CONDUCT COMPACTION TESTING AND FILL GRADATION MONITORING PER THE ABOVE REFERENCED "STANDARD SPECIFICATIONS".
3. SEE EROSION CONTROL NOTES & DETAIL SHEET FOR TEMPORARY AND PERMANENT EROSION CONTROL MEASURES.
4. ALL DRAINAGE PIPES SHALL BE HDPE OR APPROVED EQUAL UNLESS OTHERWISE NOTED.
5. ALL DISTURBED AREAS NOT OTHERWISE CALLED FOR SURFACE TREATMENT SHALL RECEIVE 6" OF HIGH QUALITY LOAM AND SHALL BE SEEDED WITH GRASS.
6. ALL SITEWORK CONSTRUCTION SHALL BE ADVANCED USING "BEST MANAGEMENT PRACTICES" SANCTIONED BY THE USDA SCS AND NHDES.
7. TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED, UTILIZED AND MAINTAINED UNTIL BASE MATERIALS ARE CONSTRUCTED.
8. CONTRACTOR SHALL PROVIDE A FINISH GRADED SURFACE FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCE AND UNDER RAISED STRUCTURES.
9. DENSITY REQUIREMENTS:

LOCATION	MINIMUM DENSITY
BELOW PAVED OR CONCRETE AREAS	95%
TRENCH BEDDING MATERIAL AND SAND BLANKET BACKFILL	95%
BELOW LOAM AND SEED AREA	90%

   * ALL PERCENTAGES SHALL BE OF THE MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH AASHTO STANDARD 180, METHOD C. FIELD DENSITY TESTS SHALL BE MADE IN ACCORDANCE WITH AASHTO STANDARD T-191, T-204, OR T-238 AND T-239.

10. SEE GENERAL EROSION CONTROL NOTES ON DETAIL SHEET.
11. PROVIDE INLET PROTECTION BARRIERS AROUND ALL EXISTING AND PROPOSED STORM DRAINAGE INLETS WITHIN THE WORK LIMITS AND AS SHOWN ON PLAN. MAINTAIN FOR THE DURATION OF THE PROJECT UNTIL PAVEMENT HAS BEEN INSTALLED AND UPSTREAM AREAS HAVE BEEN STABILIZED.
12. INSPECT SILT BARRIERS AFTER EACH RAIN STORM OF 1/4 INCH OR GREATER. REPAIR/MODIFY PROTECTION AS NECESSARY TO MAXIMIZE EFFICIENCY FILTER. REPLACE ALL FILTERS WHEN SEDIMENT IS 1/3 THE STRUCTURE HEIGHT.
13. A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED FOR THIS PROJECT. THE SWPPP MUST INCLUDE THE APPROPRIATE BEST MANAGEMENT PRACTICES (BMP'S) TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE SITE. PARTIES RESPONSIBLE FOR DEVELOPING THE SWPPP SHOULD REFER TO THE EPA NPDES CONSTRUCTION GENERAL PERMITS NOTICE OF INTENT FOR A COMPLETE OUTLINE OR REQUIRED ELEMENTS. THESE PLANS AND THE STORMWATER MANAGEMENT SYSTEM INSPECTION & MAINTENANCE PLAN PREPARED FOR THIS PROJECT MAY BE UTILIZED IN FULFILLING THE REQUIREMENTS.
14. ALL TREATMENT SWALES TO BE CONSTRUCTED SHALL HAVE SOD BOTTOMS.
15. LIMIT TREE CLEARING TO ONLY THE EXTENT NECESSARY FOR CONSTRUCTION.
16. PLACARDS SHALL BE INSTALLED ALONG THE EDGE OF WETLAND PRIOR TO CONSTRUCTION.
17. THE LIMITS OF CONSTRUCTION THAT AE LOCATED IN OR WITHIN THE 50 FOOT CONSERVATION AND WETLANDS DISTRICT SHALL BE STAKED, FLAGGED AND CLEARLY IDENTIFIED PRIOR TO ANY EARTH DISTURBING ACTIVITY OCCURS.

LEGEND

I.R. (set) o	– IRON ROD W/ I.D. CAP (SET)
⊙ I.P.	– IRON PIPE
□ G.B.	– GRANITE BOUND
⊙ I.R.	– IRON ROD
⊙ I.R.(fnd)	– IRON ROD (FOUND)
D.H.	– DRILL HOLE
S.F.	– SQUARE FEET
Ac.	– ACRE
(TYP.)	– TYPICAL
±	– MORE OR LESS
ø	– DIAMETER
S.C.R.D.	– STRAFFORD COUNTY REGISTRY OF DEEDS
-o- UP	– UTILITY POLE
———	– EDGE OF WETLAND
O.A.	– OVERALL
TBR	– TO BE REMOVED
R.O.W.	– RIGHT OF WAY
Ⓓ DMH	– DRAIN MANHOLE
□ CB	– CATCH BASIN
Ⓢ SMH	– SEWER MANHOLE
HYD.	– FIRE HYDRANT
WV	– WATER GATE VALVE
	– TREE
GV	– GAS VALVE
5'R	– PROPOSED PAVEMENT RADIUS
PW	– PROPOSED WATER
PE	– PROPOSED ELECTRIC
PS	– PROPOSED SEWER
PD	– PROPOSED DRAINAGE
PG	– PROPOSED GAS
55	– PROPOSED FINISH GRADE
x 55	– PROPOSED SPOT GRADE

UTILITY CONTACTS

NATURAL GAS: – UNITIL CORPORATION
CONTACT: DAVID BEAULIEU
325 WEST ROAD
PORTSMOUTH, NH 03801
TEL: (603)-294-5144

WATER & SEWER: – CITY OF DOVER COMMUNITY SERVICES DEPARTMENT – PUBLIC WORKS & UTILITIES
CONTACT: BILL BOULANGER
271 MAST ROAD
DOVER, NH 03820
TEL: (603)-516-6450

ELECTRIC: – EVERSOURCE
CONTACT: PIERRE BOUGIE
4 OLD DOVER ROAD
ROCHESTER, NH 03867
TEL: (603)-332-4227

TELEPHONE: – FAIRPOINT COMMUNICATIONS, INC.
CONTACT: ED LANAGAN
HIGHWAY 33, BOX 307
1575 GREENLAND ROAD
GREENLAND, NH 03804
TEL (603)-528-7335

NOT FOR CONSTRUCTION FOR PERMIT USE ONLY

PLANNING FILE
NO.: P22-23

CIVILWORKS NEW ENGLAND
CIVIL & WATERFRONT ENGINEERING
181 Watson Road, PO Box 1166
Dover, New Hampshire 03821
603.749.0443

NO.	REVISION	APP'D	DATE
1	PER TRC COMMENTS	SJH	5-2-2022

DATE: 3-23-22
SCALE: NOTES
DRAWN BY: MJM
DESIGN BY: DJL
APPROVED BY: SJH
PROJECT NO: 1804.3
FILE: 1804-SITE SUBDIVISION

NOTE SHEET

WESTFIELD, LLC.
340 CENTRAL AVENUE
SUITE 202
DOVER, NH, 03820

WESTFIELD, LLC
3 LOT SUBDIVISION
64 LITTLEWORTH ROAD
DOVER, NEW HAMPSHIRE

12

INV.=110.0'

SMH
RIM=115.0'

8" PVC CULVERT
INV.=112.1'

INDUSTRIAL PARK DRIVE

SMH
RIM=116.31'

PROPOSED
NO OUTLET
SIGN

PROPOSED
GAS
CONN.

SMH C
RIM=114.63'

SMH D
RIM=115.03'

G/3A-1 50' ACCESS & UTILITY EASEMENT 2022-02-18
19,471 S.F.
0.45 Ac.

PROPOSED
UNDERGROUND
UTILITIES
VERIFY W/ UTILITY

18" CMP CULVERT
INV.=107.9'

BEGIN WORK
RD#1 2+75

24" HDPE
L=60'
S=0.01
STA 24+12
INV. IN=102.6
INV OUT=102.0
W/FLARED END

APPROXIMATE WATER
MAIN LOCATION

50' WETLAND
BUFFER

PROP. (2) 30" HDPE
L=40;'S=0.01
STA 4+22.57
INV. IN=104.4
INV OUT=103.6
W/FLARED END

TAP EXISTING
12" WATER

PROPOSED 8"
GATE VALVE

SMH
RIM=104.3'

36" CULVER
INV.=97.05'

SMH
RIM = 102.4'
GROUND = 97.4'
SHELF @ IN = 93.7' (CONCRETE)
SHELF @ OUT = 93.3' (CONCRETE)
INV. IN = 93.2' 12" SDR
INV. OUT = 92.7' 12" SDR
INV. IN = 93.37' PROPOSED 10"

APPROXIMATE WATER
MAIN LOCATION

PSMH-1
SEWER STA: 2+30.50
RIM: 103.0
INV. IN: 94.41

CORE AND
BOOT
EXISTING
SMH

PSMH-4
ROAD STA: 23+84.89
SEWER STA: 9+45.89
RIM: 106.82
INV. IN: 97.63

24" HDPE CULVERT
INV.IN=102.7'
INV.OUT=102.6'

PROPOSED
THRUST
BLOCK (TYP)

ROAD#3

ROAD#2

PSMH-3
ROAD STA: 22+00
SEWER STA: 7+61
RIM: 105.15
INV. IN: 96.80

50' ROW
30' WIDE ROAD

EQUATION STATION
RD1=5+08.39
RD2=0+00
RD3=20+00

PSMH-2
ROAD STA: 11+00
SEWER STA: 4+61
RIM: 106.15
INV. IN: 95.45

10" PVC 30' STUB TO
PL LINE
INV 98.81 MARK W/
4" PVC WITNESS

10" PVC 30' STUB TO PL LINE
(FOR FUTURE CONNECTION)
INV 99.23 MARK W/ 4" PVC WITNESS

PROPOSED 30' UTILITY
EASEMENT IN FAVOR OF
THE CITY OF DOVER

PROPOSED STAINLESS
STEEL TAPPING
SLEEVE AND GATE

PSMH-5
ROAD STA: 25+00
SEWER STA: 10+60.91
RIM: 108.15
INV. IN: 98.15

PSMH-6
ROAD STA: 26+20.51
SEWER STA: 11+75.44
RIM: 107.45
INV. IN: 98.67

SEWER CONNECTION
ROAD STA: 27+15
SEWER STA: 12+69.32
INV. IN: 99.09

15" PVC CULVERT
INV.IN=100.5'
INV.OUT=100.1'

100' PSNH EASEMENT

PSMH-8
ROAD STA 13+50.20 =
SEWER STA: 22+08.44
RIM: 106.76
INV.: 95.35

WETLAND
(TYP.)

50' WETLAND
BUFFER

CAP 10" SEWER
STA. 23+84
MARK W/4" PVC
INV. 95.80

PROPOSED
HYDRANT
W/ 8" GATE
VALVE

CAP 8" CLDI
40' OFF PL

G/2-4 2022-02-18
1,230,377 S.F.
28.25 Ac.

PROPOSED
HYDRANT
W/ 8" GATE
VALVE

PROP.
GAS

TRANSFORMER
PAD (TYP)

PSMH-7
ROAD STA: 28+55.70
SEWER STA: 14+10.56
RIM: 107.84
INV. IN: 99.73

10" PVC 30' STUB TO PL LINE
INV 99.86
MARK W/ 4" PVC WITNESS

30' WIDE UTILITY
EASEMENT

G/2-3 2022-02-18
1,044,730 S.F.
23.98 Ac.

50' WETLAND BUFFER (TYP.)
EDGE OF WETLAND (TYP.)

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)

NOT FOR CONSTRUCTION FOR PERMIT USE ONLY

PLANNING FILE
NO.: P22-23

NO.	REVISION	APP'D	DATE
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ROAD & UTILITY PLAN

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WESTFIELD, LLC
3 LOT SUBDIVISION
64 LITTLEWORTH ROAD
DOVER, NEW HAMPSHIRE

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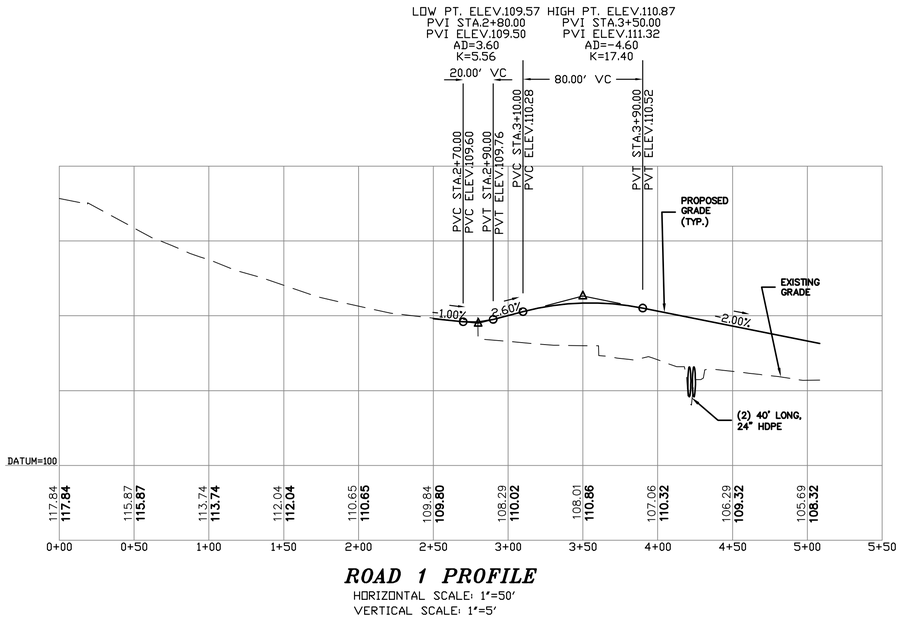
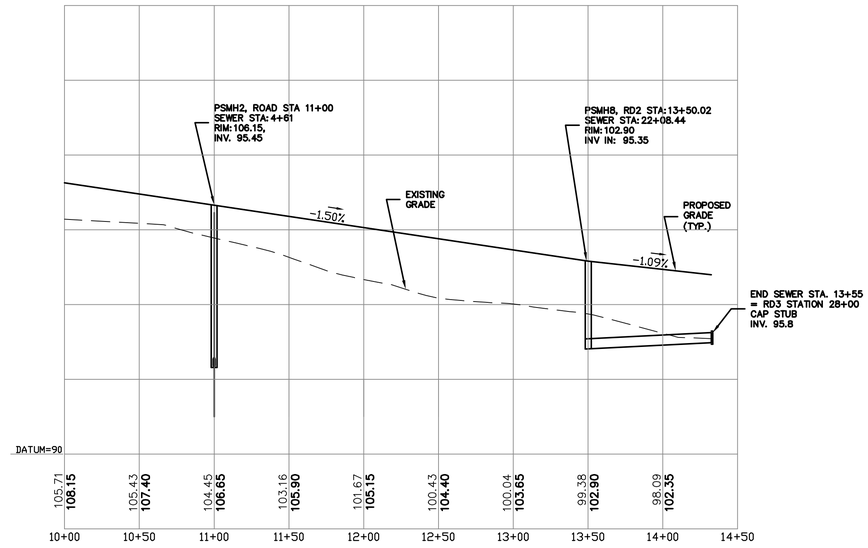


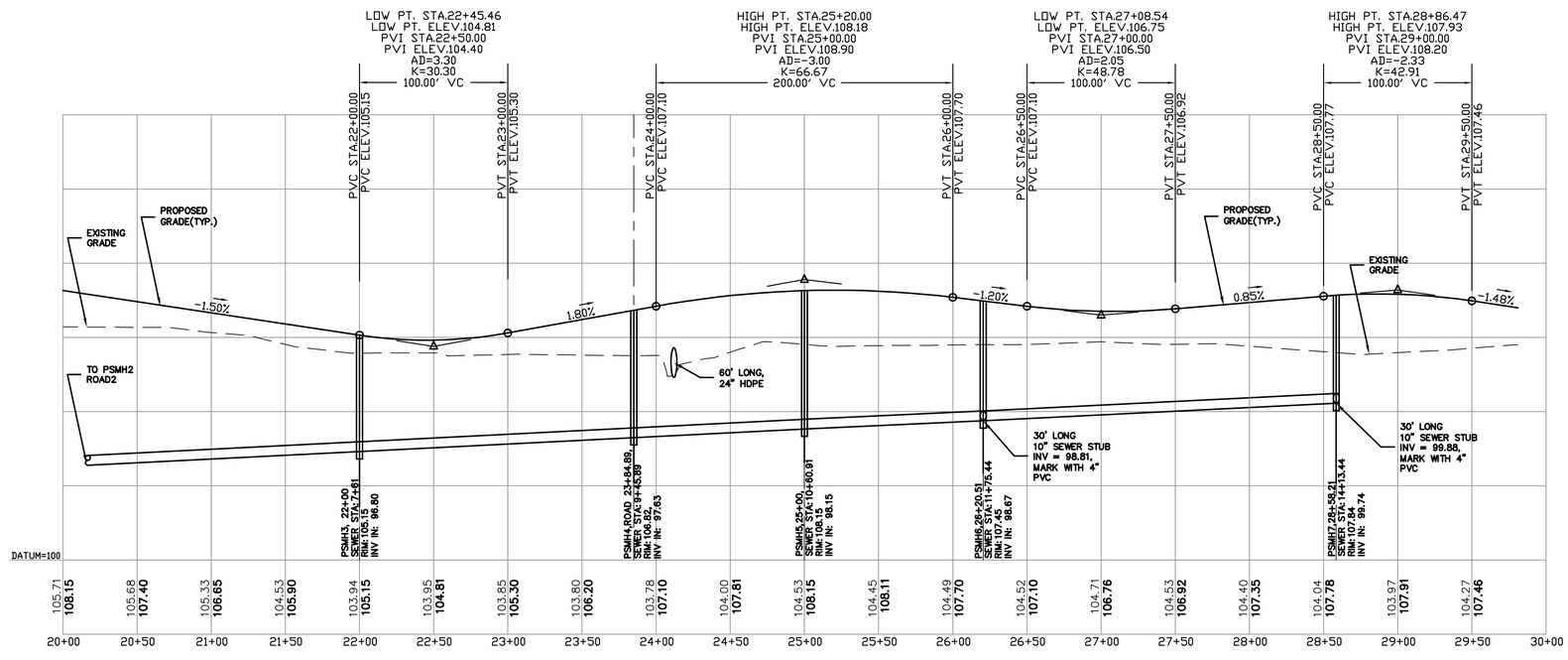
ROAD 1 PROFILE

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'



ROAD 2 PROFILE

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'



ROAD 3 PROFILE

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

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ROAD PROFILES

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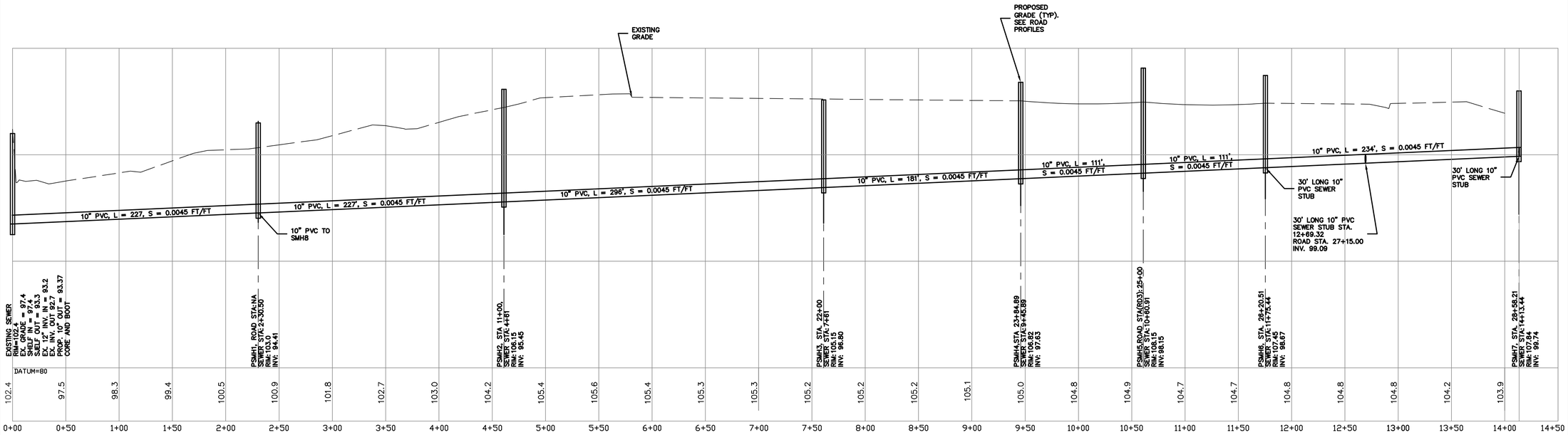
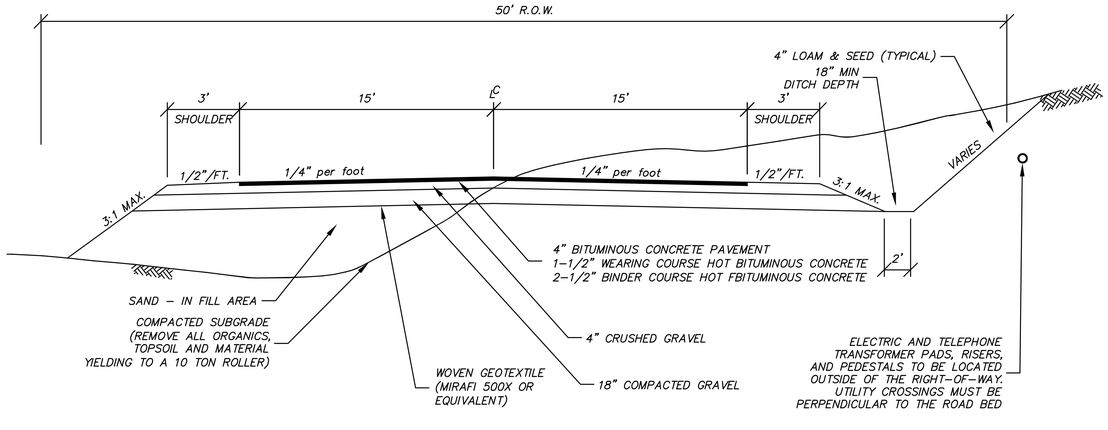


SEWER PROFILE

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'



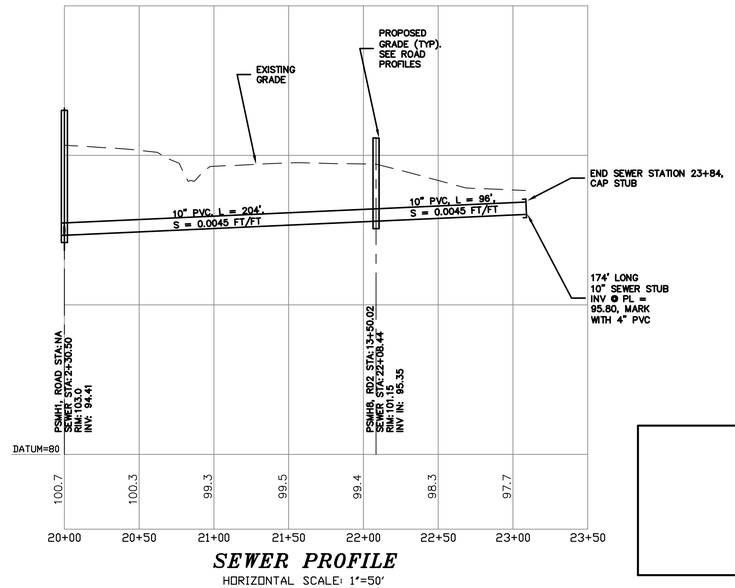
TYPICAL ROADWAY SECTION

NOT TO SCALE

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)



SEWER PROFILE

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

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3 LOT SUBDIVSION
64 LITTLEWORTH ROAD
DOVER, NEW HAMPSHIRE

SEWER PROFILES

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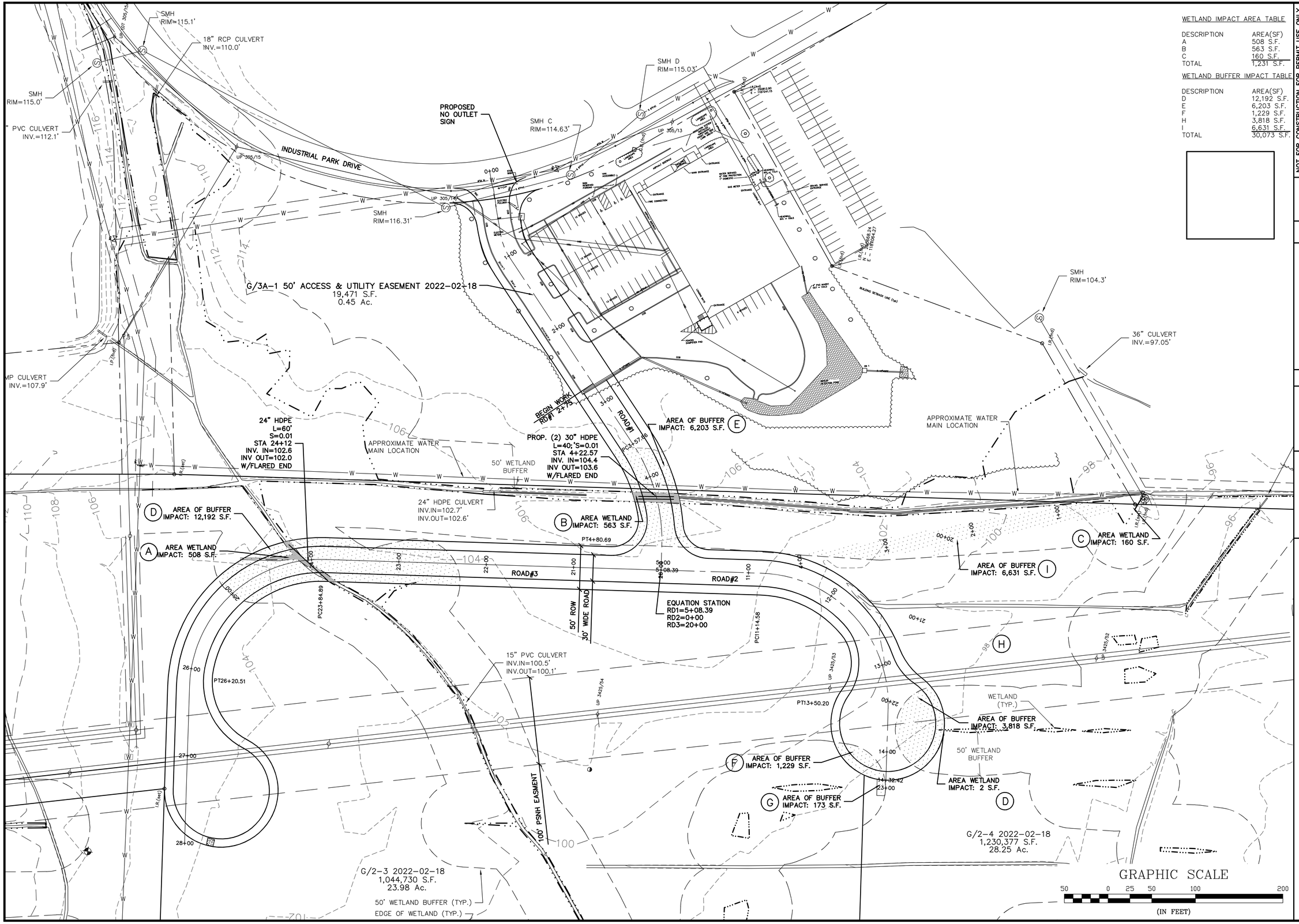

WETLAND IMPACT AREA TABLE

DESCRIPTION	AREA(SF)
A	508 S.F.
B	563 S.F.
C	160 S.F.
TOTAL	1,231 S.F.

WETLAND BUFFER IMPACT TABLE

DESCRIPTION	AREA(SF)
D	12,192 S.F.
E	6,203 S.F.
F	1,229 S.F.
H	3,818 S.F.
I	6,631 S.F.
TOTAL	30,073 S.F.

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PLANNING FILE NO.: P22-23

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3 LOT SUBDIVISION – CONDITIONAL USE PLAN

WESTFIELD, LLC.
340 CENTRAL AVENUE
SUITE 202
DOVER, NH, 03820

WESTFIELD, LLC
3 LOT SUBDIVISION
64 LITTLEWORTH ROAD
DOVER, NEW HAMPSHIRE

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DESCRIPTION

1. THE INTENT OF THIS PLAN IS TO SHOW SITE IMPROVEMENTS ASSOCIATED WITH THE CONSTRUCTION OF A 1,465 L.F. ROADWAY.

PROJECT NAME AND LOCATION

WESTFIELD LLC. LATITUDE 43.18616
DOVER, NH LONGITUDE −70.90939

DISTURBED AREA

NOTES:
1. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY TIME BEFORE DISTURBED AREAS ARE STABILIZED.
2. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.

SEQUENCE OF MAJOR ACTIVITIES

1. CONTRACTOR SHALL PREPARE THE SWPPP, FILE FOR AND OBTAIN THE NOI A MINIMUM OF 2 WEEKS PRIOR TO COMMENCEMENT OF SITE WORK.
2. PLACE TEMPORARY EROSION AND SEDIMENT CONTROL BMP'S PRIOR TO EARTH MOVING ACTIVITIES.
3. ALL EROSION CONTROL AND PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO COMMENCING EARTH MOVING OPERATIONS.
4. SELECTIVE DEMOLITION.
5. REGRADE ROAD TO SUBGRADE.
6. TEMPORARY WATER DIVERSION (SWALES, BASINS) MUST BE USED AS NECESSARY UNTIL AREAS ARE STABILIZED.
7. SWALES AND PONDS (AS APPLICABLE) SHALL BE CONSTRUCTED EARLY ON IN THE CONSTRUCTION SEQUENCE AND BEFORE ROUGH GRADING OF THE SITE AND ALL DITCHES AND SWALES SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
8. INSTALL DRAINAGE STRUCTURES AND CONTROLS.
9. INSTALL UTILITIES.
10. PLACE GRAVELS AND FINE GRADE.
11. STABILIZE ROADWAYS WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
12. ALL CUT AND FILL SLOPES SHALL BE LOAMED AND SEEDED (AS APPLICABLE) WITHIN 72 HOURS OF ACHIEVING FINISH GRADE.
13. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EVERY 1/2" OF RAINFALL.
14. IN ALL CASES THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION AND IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
15. WHEN ALL SITE WORK IS COMPLETE AND ALL DISTURBED AREAS ARE STABILIZED REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND FILE THE EPA – N.O.T.

DEFINITIONS

AN AREA SHALL BE CONSIDERED STABLE OF ONE OF THE FOLLOWING HAS OCCURRED.
1. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED
2. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED
3. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED; OR
4. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED

INSTALLATION, MAINTENANCE, AND INSPECTION PROCEDURES OF EROSION AND SEDIMENT CONTROLS

A. SILT BARRIER

1. INSTALLATION
   a. USE SILT BARRIER AS PERIMETER CONTROLS, PARTICULARLY AT THE LOWER OR DOWN SLOPE EDGE OF A DISTURBED AREA.
   b. LEAVE SPACE FOR MAINTENANCE BETWEEN TOE AND SLOPE OF SILT BARRIER.
   c. TRENCH IN THE SILT BARRIER ON THE UPHILL SIDE (6 INCHES DEEP BY 6 INCHES WIDE).
   d. INSTALL STAKES ON THE DOWNHILL SIDE OF THE SILT BARRIER.
   e. CURVE THE END OF THE SILT BARRIER UP-GRADIENT TO HELP IT CONTAIN RUNOFF.
2. SEQUENCE OF INSTALLATION
   a. SEDIMENT BARRIERS SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM.
3. MAINTENANCE
   a. SILT BARRIERS SHOULD BE INSPECTED AND MAINTAINED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
   b. SILT BARRIERS HAVE A USEFUL LIFE OF ONE SEASON. ON LONGER CONSTRUCTION PROJECTS, SILT BARRIERS SHOULD BE REPLACED PERIODICALLY TO MAINTAIN EFFECTIVENESS.
   c. REMOVE SEDIMENT WHEN IT REACHES ONE-THIRD (1/3) THE HEIGHT OF THE SILT BARRIER.
   d. REPLACE THE SILT BARRIERS WHERE THEY ARE TORN, WORN, OR OTHERWISED DAMAGED AND MONITOR PERFORMANCE TO ENSURE EFFECTIVE PERFORMANCE.
   e. RETRENCH OR REPLACE ANY SILT BARRIER THAT IS NOT PROPERLY ANCHORED TO THE GROUND.
   f. IF THERE IS EVIDENCE OF END FLOW ON PROPERLY INSTALLED BARRIERS, EXTEND BARRIERS UPHILL OR CONSIDER REPLACING THEM WITH OTHER MEASURES, SUCH AS TEMPORARY DIVERSIONS AND SEDIMENT TRAPS.
   g. SILT BARRIERS SHOULD BE REPAIRED IMMEDIATELY IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THEM. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES OF THE BARRIER, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THEM, SILT BARRIERS SHOULD BE REPLACED WITH A TEMPORARY CHECK DAM.

B. MULCHING

1. TIMING
   a. APPLY MULCH PRIOR TO ANY STORM EVENT. IT WILL BE NECESSARY TO CLOSELY MONITOR WEATHER PREDICTIONS TO HAVE ADEQUATE WARNING OF SIGNIFICANT STORMS.
   b. IN OTHER AREAS, THE TIME PERIOD CAN RANGE FROM 14 TO 30 DAYS OF INACTIVITY ON A AREA. THE LENGTH OF TIME VARYING WITH SITE CONDITIONS. PROFESSIONAL JUDGEMENT SHALL BE USED TO EVALUATE THE INTERACTION OF SITE CONDITIONS (SOIL ERODIBILITY, SEASON OF YEAR, EXTENT OF DISTURBANCE, PROXIMITY TO SENSITIVE RESOURCES, ETC.) AND THE POTENTIAL IMPACT OF EROSION ON ADJACENT AREAS TO CHOOSE AN APPROPRIATE TIME RESTRICTION.
   c. WITHIN 100 FEET OF RIVERS, STREAMS, WETLANDS, AND IN LAKE AND POND WATERSHEDS, THE TIME PERIOD OF WHICH MULCHING SHOULD TAKE OCCUR SHOULD BE NO GREATER THAN SEVEN (7) DAYS. THIS SEVEN DAY LIMIT SHOULD BE REDUCED FURTHER DURING WET WEATHER PERIODS.
2. APPLICATION RATE
   a. MULCH SHALL BE APPLIED AT A RATE OF BETWEEN 1.5 TO 2 TONS PER ACRE, OR 70 TO 90 POUNDS PER 1000 SQUARE FEET.
   b. GUIDELINES FOR WINTER MULCH APPLICATION. WHEN MULCH IS APPLIED TO PROVIDE PROTECTION OVER WINTER (PAST THE GROWING SEASON) IT SHALL BE AT A RATE OF 150-200 POUNDS OF HAY OR STRAW PER ACRE WITH ABOUT 4 INCHES IN DEPTH. A TACKIFIER MAY BE ADDED TO THE MULCH.
3. MAINTENANCE
   a. ALL MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAINSTORMS. CHECK FOR SIGNS OF EROSION OR DISPLACEMENT OF THE MULCH. IF LESS THAN 90% OF THE SOIL SURFACE IS COVERED BY MULCH, ADDITIONAL MULCH SHALL BE IMMEDIATELY APPLIED.
   b. NETS MUST BE INSPECTED AFTER RAIN EVENTS FOR DISLOCATION OR FAILURE AND SHOULD BE REPAIRED AS NECCESSARY.
   c. INSPECTIONS SHOULD TAKE PLACE UNTIL THE SITE IS ESTABLISHED.
   d. EROSION CONTROL MIX MULCH USED FOR TEMPORARY STABILIZATION SHOULD BE LEFT IN PLACE. VEGETATION ADDS STABILITY AND SHOULD BE PROMOTED.

C. TEMPORARY SEEDING

1. SEEDBED PREPARATION
   a. STONES AND TRASH SHOULD BE REMOVED SO AS NOT TO INTERFERE WITH THE SEEDING AREA.
   b. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.
   c. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS.
      i) APPLY FERTILIZER AT A RATE OF 600 POUNDS PER ACRE OR 13.8 POUNDS PER 1,000 SQUARE FEET OF LOW PHOSPHATE FERTILIZER OR EQUIVALENT.
      ii) APPLY LIMESTONE AT A RATE OF 3 TONS PER ACRE OR 138 POUNDS PER 1,000 SQUARE FEET.
2. SEEDING
   a. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER (SUMMARY INCLUDING SEED AND FERTILIZER) WITH A SEEDING DEPTH FROM A QUARTER (1/4) TO A HALF (1/2) INCH.
   b. SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.
   c. TEMPORARY SEEDING BETWEEN MAY 15TH AND AUGUST 15TH SHOULD BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE.
   d. VEGETATED GROWTH COVERING 85% OF THE DISTURBED AREA SHOULD BE ACHIEVED PRIOR TO OCTOBER 15TH.
3. MAINTENANCE
   a. TEMPORARY SEEDING SHALL BE INSPECTED PERIODICALLY. AT A MINIMUM, 85% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND OTHER TEMPORARY MEASURES USED IN THE INTERIM (MULCH, FILTER FABRICS, CHECK DAMS, ETC.).

D. PERMANENT SEEDING

1. BEDDING – STONES LARGER THAN 2 INCHES, TRASH, ROOTS, AND OTHER DEBRIS INTERFERING WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA SHOULD BE REMOVED. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF 4" TO PREPARE A SEEDBED AND MIX FERTILIZER INTO THE SOIL.
2. FERTILIZER
   a. LIME AND FERTILIZER SHOULD BE WORKED INTO THE SOIL TO A DEPTH OF 4 INCHES USING A DISC, SPRING TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT PRIOR TO OR AT THE SAME TIME OF SEEDING.
   b. FERTILIZER SHOULD BE RESTRICTED TO A LOW PHOSPHATE, SLOW RELEASE NITORGEN FERTILIZER WHEN APPLIED TO AREAS BETWEEN 25 FEET AND 250 FEET FROM A SURFACE WATER BODY. NO FERTILIZER EXCEPT LIMESTONE SHOULD BE APPLIED WITHIN 25 FEET OF THE SURFACE WATER.
   c. KINDS AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED:
      AGRICULTURAL LIMESTONE @ 138 LBS. PER 1,000 S.F.
      LOW PHOSPHATE (N-P205-K20) FERTILIZER @ 13.8 LBS. PER 1,000 S.F.
3. SEED MIXTURE (RECOMMENDED)
   RATE:

TYPE	LBS. PER ACRE	LBS. PER 1,000 S.F.
TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
BIRDSFOOT TREFOIL	8	0.20
TOTAL	48	1.10

4. SEEDING
   a. SPRING SEEDING USUALLY GIVES THE BEST RESULTS FOR ALL SEED MIXES OR WITH LEGUMES. PERMANENT SEEDING SHOULD BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST.
   b. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER) WITH A SEEDING DEPTH FROM A QUARTER (1/4) TO A HALF (1/2) INCH.
   c. VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED SHOULD BE ACHIEVED PRIOR TO OCTOBER 15TH. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT TEMPORARY MULCHING MEASURES FOR OVERWINTER PROTECTION.
5. HYDROSEEDING
   a. LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. THE USE OF STRAW MULCH ON CRITICAL AREAS IS PREFERRED SINCE IT GRANTS BETTER SLOPE PROTECTION BY USING ADHESIVE MATERIALS.
   b. SLOPES MUST BE NO STEEPER THAN 2 TO 1 (2 FEET HORIZONTALLY TO 1 FOOT VERTICALLY).
   c. SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.
6. MAINTENANCE
   a. PERMANENT SEEDED AREAS SHOULD BE INSPECTED AT LEAST MONTHLY DURING THE COURSE OF CONSTRUCTION. INSPECTIONS, MAINTENANCE, AND CORRECTIVE ACTIONS SHOULD CONTINUE UNTIL THE OWNER ASSUMES PERMANENT OPERATION OF THE SITE.
   b. SEEDED AREAS SHOULD BE MOWED AS REQUIRED TO MAINTAIN A HEALTHY STAND OF VEGETATION, WITH MOWING HEIGHT AND FREQUENCY DEPENDENT ON TYPE OF GRASS COVER.
   c. BASED ON INSPECTION, AREAS SHOULD BE RESEEDED TO ACHIEVE FULL STABALIZATION OF EXPOSED SOILS.
   d. IF EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHOULD BE MADE AND AREAS RESEEDED. WITH OTHER TEMPORARY MEASURES USED TO PROVDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.
   e. AT A MINIMUM, 85% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION.

E. STORM DRAIN INLET PROTECTION

1. SPECIFICATIONS
   a. THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE BARRIER SHOULD BE LESS THAN ONE ACRE.
   b. ANY RESULTANT PONDING OF STORMWATER MUST NOT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT AREAS OR STRUCTURES.
2. INSTALLATION
   a. INSTALL INLET PROTECTION AS SOON AS STORM DRAIN INLETS ARE INSTALLED AND BEFORE LAND-DISTURBANCE ACTIVITIES BEGIN IN AREAS WITH EXISTING STORM DRAIN SYSTEMS.
   b. PROTECT ALL INLETS THAT COULD RECEIVE STORMWATER FROM YOUR CONSTRUCTION PROJECT.
   c. USE IN CONJUNCTION WITH OTHER EROSION PREVENTION AND SEDIMENT CONTROL BMPS.
   d. DESIGN YOUR INLET PROTECTION TO HANDLE THE VOLUME OF WATER FROM THE AREA BEING DRAINED. ENSURE THAT THE DESIGN IS SIZED APPROPRIATELY.
3. MAINTENANCE
   a. INSPECT INLETS BARRIERS FREQUENTLY, BEFORE AND AFTER EACH RAINFALL EVENT AND REPAIR WHEN NECESSARY.
   b. SEDIMENT SHOULD BE REMOVED AND THE STORM DRAIN SEDIMENT BARRIER RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE BARRIER.
   c. REMOVED SEDIMENT SHOULD BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
   d. SWEEP STREETS, SIDEWALKS, AND OTHER PAVED AREAS REGULARLY.
   e. ALL CATCH BASINS AND STORM DRAIN INLETS MUST BE CLEANED AT THE END OF CONSTRUCTION AND AFTER THE SITE HAS BEEN FULLY STABILIZED

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES THE SILT BARRIERS SHALL BE INSTALLED PRIOR TO COMMENCING ANY CLEARING OR GRADING OF THE SITE. STRUCTURAL CONTROLS SHALL BE INSTALLED CONCURRENTLY WITH THE APPLICABLE ACTIVITY. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN TWENTY ONE (21) DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN FOURTEEN (14) DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, SILT FENCES AND ANY EARTH/DIKES WILL BE REMOVED ONCE PERMANENT MEASURES ARE ESTABLISHED. ALL AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISH GRADE.

WASTE DISPOSAL

a. WASTE MATERIALS
   ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPTACLES. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN A DUMPSTER. NO CONSTRUCTION WASTE MATERIALS WILL BE BURIED ON SITE. ALL PERSONEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL BY THE SUPERINTENDENT.
b. HAZARDOUS WASTE
   ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES BY THE SUPERINTENDENT.
c. SANITARY WASTE
   ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

MAINTENACE OF STORMWATER MANAGEMENT FACILITIES

THE PROJECT PROPONENT IS RESPONSIBLE FOR THE MAINTENANCE OF ALL STORMWATER FACILITIES DURING CONSTRUCTION AND THE PORPERTY OWNER IS RESPONSIBLE AFTER CONSTRUCTION IS COMPLETE.

CATCH BASINS & STORMWATER TREATMENT STRUCTURES

1. CATCH BASINS & STORMWATER TREATMENT STRUCTURES SHOULD BE INSPECTED ON A MONTHLY BASIS AND/OR AFTER A MAJOR RAINFALL EVENT TO ASSURE THAT DEBRIS OR SEDIMENTS DO NOT REDUCE THE EFFECTIVENESS OF THE SYSTEM.

SPILL PREVENTION:

A. MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL SANITARY EXPOSURE OF MATERIALS AND SUBSTANCES DURING CONSTRUCTION TO STORMWATER RUNOFF:
GOOD HOUSEKEEPING:
THE FOLLOWING GOOD HOUSEKEEPING PRACTICES THAT WILL BE FOLLOWED ON SITE DURING
1. THE CONSTRUCTION PROJECT.
   a. AN EFFORT WILL BE MADE TO STORE ONLY SUFFICIENT AMOUNTS OF PRODUCTS TO DO THE JOB.
   b. ALL MATERIALS STORED ON SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR PROPER (ORIGINAL IF POSSIBLE) CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
   c. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
   d. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS.
   e. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
   f. WHENEVER POSSIBLE ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
2. HAZARDOUS PRODUCTS:
   a. THE FOLLOWING PRACTICES WILL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:
   b. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
   c. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED FOR IMPORTANT PRODUCT INFORMATION.
   d. SURPLUS PRODUCT THAT MUST BE DISPOSED OF WILL BE DISCARDED ACCORDING TO THE MANUFACTURER'S RECOMMENDED METHODS OF DISPOSAL.

B. PRODUCT SPECIFICATION PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ON SITE:
1. PETROLEUM PRODUCTS:
   a. ALL ON SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT BASED SUBSTANCES USED ON SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
2. FERTILIZERS:
   a. FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS DIRECTED BY THE SPECIFICATIONS. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER. STORAGE WILL BE IN A COVERED SHED OR ENCLOSED TRAILERS. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
3. PAINTS:
   a. ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE DISPOSED OF PROPERLY ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.
4. CONCRETE TRUCKS:
   a. CONCRETE TRUCKS WILL DISCHARGE AND WASH OUT SURPLUS CONCRETE OR DRUM WASH WATER IN A CONTAINED AREA ON SITE.

C. SPILL CONTROL PRACTICES

IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTION THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
   a. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
   b. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC OR METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
   c. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
   d. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
   e. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OF LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
   f. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM RECURRING AND HOW TO CLEANUP THE SPILL IF IT OCCURS. A DESCRIPTION OF THE SPILL, ITS CAUSE, AND THE CLEANUP MEASURES WILL BE INCLUDED.
   g. THE SITE SUPERINTENDENT RESPONSIBLE FOR DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.

THE PROJECT PROPONENT IS REQUIRED TO MANAGE CONSTRUCTION TO MEET THE REQUIREMENTS AND INTENT OF RSA 430:53 AND AGR 3800 RELATIVE TO CONTROLLING INVASIVE SPECIES AND CONTROLLING FUGITIVE DUST IN ACCORDANCE WITH ENV-A 1002.

AGR 3800 PROHIBITED INVASIVE PLANT SPECIES RULES

THE RULE, AGR 3800, STATES: 'NO PERSON SHALL COLLECT, TRANSPORT, IMPORT, EXPORT, MOVE, BUY SELL, DISTRIBUTE, PROPAGATE OR TRANSPLANT ANY LIVING AND VIABLE PORTION OF ANY PLANT SPECIES, WHICH INCLUDED ALL OF THEIR CULTIVARS AND VARIETIES, LISTED IN TABLE 3800.1, NEW HAMPSHIRE PROHIBITED INVASIVE SPECIES LIST'. A COMPLETE COPY OF THE RULES CAN BE ACCESSED ON THE INTERNET AT
HTTP://AGRICULTURE.NH.GOV/TOPICS/PLANTS_INSECTS.HTM.

ENV-A 1002 FUGITIVE DUST: PRECAUTIONS TO PREVENT, ABATE, AND CONTROL FUGITIVE DUST.

a. ANY PERSON ENGAGED IN ANY ACTIVITY WITHIN THE STATE EMITS FUGITIVE DUST, OTHER THAT THOSE LISTED IN ENV-A 1002.02 (b), SHALL TAKE PRECAUTIONS THROUGHOUT THE DURATION OF THE ACTIVITY IN ORDER TO PREVENT, ABATE, AND CONTROL THE EMISSION OF FUGITIVE DUST.
b. PRECAUTIONS REQUIRED BY (a) ABOVE, SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
   i) THE USE OF WATER OR HYDROPHILIC MATERIAL ON OPERATIONS OR SURFACES, OR BOTH;
   ii) THE APPLICATION OF ASPHALT, WATER, OR HYDROPHILIC MATERIAL, OR TARPS OR OTHER SUCH COVERS TO MATERIAL STOCKPILES;
   iii) THE USE OF HOODS, FANS, FABRIC FILTERS, OR OTHER DEVICES TO ENCLOSE AND VENT AREAS WHERE MATERIALS PRONE TO PRODUCING FUGITIVE DUST ARE HANDLED;
   iv) THE USE OF CONTAINMENT METHODS FOR SANDBLASTING OR SIMILAR OPERATIONS; AND
   v) THE USE OF VACUUMS OR OTHER SUCTION DEVICES TO COLLECT AIRBORNE PARTICULATE MATTER.

PER 153-10 F:

ALL SITE IMPROVEMENTS WHICH REQUIRE BLASTING OF LAND SHALL MEET THE FOLLOWING REQUIRMENTS PRIOR TO ANY BLASTING OCCURING.

1. THE APPLICANT SHALL PREPARE A PRE-BLAST SURVEY OF ALL STRUCTURES WITHIN FIVE HUNDRED (500) FEET OF THE EXTERNAL BOUNDARIES OF THE PROPOSED LOT TO BE DEVELOPED. THIS SURVEY, ALONG WITH A MONITORING PLAN, SHALL BE ON FILE WITH THE DOVER FIRE AND RESCUE. UPON RECOMMENDATIONS OF THE CHIEF, THE PLANNING BOARD MAY REQUIRE A PRE-BLAST SURVEY OF ALL STRUCTURES WITHIN ONE THOUSAND (1000) FEET.
2. THE APPLICANT SHALL HOLD A NEIGHBORHOOD MEETING TO REVIEW THE BLASTING PLAN AND PRE-BLAST SURVEY, WITH REPRESENTATIVES OF THE FIRE AND RESCUE AND THE BLASTING COMPANY IN ATTENDANCE, PRIOR TO ANY ON-SITE BLASTING. ABUTTERS WITHIN ONE THOUSAND (1000) FEET OF THE EXTERNAL BOUNDARY OF THE PROJECT PARCEL SHALL BE NOTIFIED BY THE CERTIFIED MAIL (PAID FOR BY THE APPLICANT) OF THE MEETING NO LESS THAN TEN (10) DAYS PRIOR TO THE MEETING AND NO MORE THAN FIFTEEN (15) DAYS PRIOR TO THE MEETING. THE NOTICE SHALL STATE THE TIME AND DATE OF THE BLASTING AND CONTAIN A MAP SHOWING THE BLASTING AREA, THE 1,000-FOOT-RADIUS AREA, AND THE 500-FOOT-RADIUS AREA.
3. PERMIT HOLDERS SHALL BE IN COMPLIANCE WITH NFPA 495, EXPLOSIVE MATERIALS CODE, IN ADDITION TO ALL OTHER ORDINANCES AND CODES SET FORTH IN THE CITY OF DOVER CODE, § 153-14A, STORMWATER MANAGEMENT, EROSION CONTROL AND FLOOD HAZARDS, OF THIS CHAPTER AND THE CITY OF DOVER FIRE PREVENTION CODE, WHICH SPECIFICALLY PROHIBITS THE OVERNIGHT STORAGE OF EXPLOSIVES OR BLASTING AGENTS. FURTHER, ALL STORAGE MAGAZINES SHALL BE LOCKED IN THE OPEN POSITION AT THE END OF THE DAY'S OPERATION FOR EASY INSPECTION BY CITY OFFICIALS.
4. BLASTING PERMITS MAY BE OBTAINED BY CALLING THE DOVER FIRE AND RESCUE DURING NORMAL BUSINESS HOURS. THE PERMITS ARE ONLY ACTIVE FOR THE DATES AND TIME SPECIFIED ON THE PERMIT.
5. PERMIT HOLDERS SHALL HOLD INSURANCE AGAINST CLAIMS FOR DAMAGES FOR PERSONAL INJURY AND PROPERTY WHICH MAY ARISE FROM THE PERFORMANCE OF THE WORK.
6. HOURS OF OPERATION FOR THE BLASTING SHALL BE NO EARLIER THAN 8:00AM AND NO LATER THAN 6:00PM, MONDAY THROUGH FRIDAY, EXCLUDING FEDERAL HOLIDAYS.

WINTER CONSTRUCTION NOTES

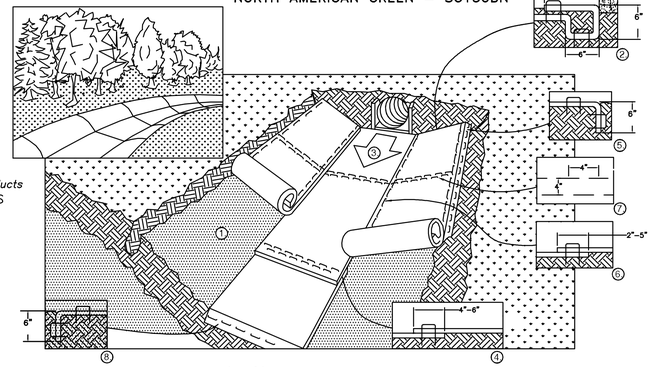
1. ALL PROPOSED POST-DEVELOPMENT VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE PLACEMENT OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT.
2. ALL SLOPES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS.
3. AFTER OCTOBER 15TH, INCOMPLETE ROAD SURFACES SHALL BE PROTECTED WITH A MINIMUM OF 3-INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 403.3, OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT.

ENV-WQ 1510: BEST MANAGEMENT PRACTICES FOR BLASTING

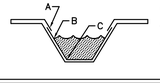
1) ALL ACTIVITIES ASSOCIATED WITH BLASTING NEED TO BE OPTIMIZED TO PREVENT THE RELEASE OF CHEMICALS ASSOCIATED WITH BLASTING ACTIVITIES TO THE ENVIRONMENT.
2) IF MORE THAN 5,000 CY OF ROCK REMOVAL IS REQUIRED DRINKING WATER WELLS MUST BE IDENTIFIED AND LOCATED WITHIN 2000 FEET OF THE PROPOSED BLASTING ACTIVITIES. DEVELOP A GROUNDWATER QUALITY SAMPLING PROGRAM TO MONITOR FOR NITRATE AND NITRITE EITHER IN THE DRINKING WATER SUPPLY WELLS OR IN OTHER WELLS THAT ARE REPRESENTATIVE OF THE DRINKING WATER SUPPLY WELLS IN THE AREA. THE PLAN MUST INCLUDE PRE AND POST BLAST WATER QUALITY MONITORING AND BE APPROVED BY NHDES PRIOR TO INITIATING BLASTING. THE GROUNDWATER SAMPLING PROGRAM MUST BE IMPLEMENTED ONCE APPROVED BY NHDES.
3) THE FOLLOWNG BEST MANAGEMENT PROCEDURES FOR BLASTING SHALL BE COMPLIED WITH:
   (1) LOADING PRACTICES. THE FOLLOWING BLASTHOLE LOADING PRACTICES TO MINIMIZE ENVIRONMENTAL EFFECTS SHALL BE FOLLOWED:
      (A) DRILLING LOGS SHALL BE MAINTAINED BY THE DRILLER AND COMMUNICATED DIRECTLY TO THE BLASTER. THE LOGS SHALL INDICATE DEPTHS AND LENGTHS OF VOIDS, CAVITIES, AND FAULT ZONES OR OTHER WEAK ZONES ENCOUNTERED AS WELL AS GROUNDWATER CONDITIONS.
      (B) EXPLOSIVE PRODUCTS SHALL BE MANAGED ON-SITE SO THAT THEY ARE EITHER USED

CHANNEL INSTALLATION
NORTH AMERICAN GREEN – SC150BN

NORTH AMERICAN GREEN
EROSION CONTROL *Products Guaranteed* SOLUTIONS



1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL–O–SEED DO NOT SEED PREPARED AREA. CELL–O–SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE RECP's IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP's EXTENDED BEYOND THE UP–SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" ACROSS THE WIDTH OF THE RECP's.
3. ROLL CENTER RECP's IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. PLACE CONSECUTIVE RECP's END OVER END (SHINGLE STYLE) WITH A 4" – 6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE RECP's.
5. FULL LENGTH EDGE OF RECP's AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT RECP's MUST BE OVERLAPPED APPROXIMATELY 2" – 5" (DEPENDING ON RECP's TYPE) AND STAPLED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE RECP's MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. NOTE: * IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP's.



CRITICAL POINTS
A. OVERLAPS AND SEAMS
B. PROJECTED WATER LINE
C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

NOTE:
* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.

** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP's.

SLOPE INSTALLATION
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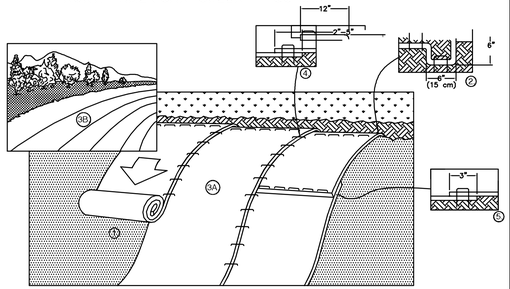
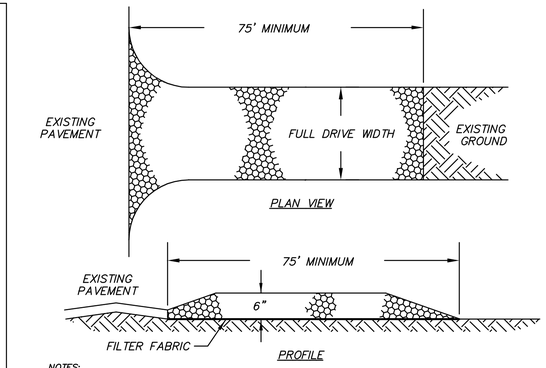


1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL–O–SEED DO NOT SEED PREPARED AREA. CELL–O–SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP's EXTENDED BEYOND THE UP–SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP's.
3. ROLL THE RECP's (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM®, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" – 5" (5 CM – 12.5 CM) OVERLAP DEPENDING ON RECP's TYPE.
5. CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP's WIDTH.
   NOTE:
   *IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

NOTE: THE USE OF WELDED PLASTIC OR BIODEGRADABLE PLASTIC NETTING OR THREAD IN EROSION CONTROL MATTING IS PROHIBITED. THE USE OF WILDLIFE FRIENDLY ORGANIC MATERIALS IS RECOMMENDED.



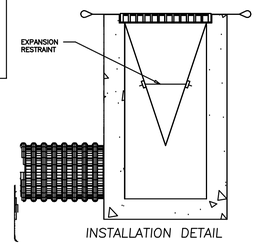
NOTES:
1. *SEE EROSION CONTROL NOTES BELOW FOR MATERIAL, INSTALLATION AND MAINTENANCE REQUIREMENTS.*
2. *TO BE INSTALLED AT EACH POINT OF EGRESS FROM THE WORK AREA.*

STABILIZED CONSTRUCTION ENTRANCE

1. SPECIFICATIONS
   A. AGGREGATE SIZE: USE THREE (3) INCHES STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
   B. AGGREGATE THICKNESS: NOT LESS THAN SIX (6) INCHES.
   C. WIDTH TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH OF POINTS WHERE INGRESS OR EGRESS OCCURS.
   D. LENGTH: AS REQUIRED, BUT NOT LESS THAN SEVENTY–FIVE (75) FEET. PIPING OF SURFACE WATER UNDER ENTRANCE SHALL BE PROVIDED AS REQUIRED.
   E. GEOTEXTILE: TO BE PLACED OVER THE ENTIRE AREA TO BE COVERED WITH AGGREGATE.
   F. CRITERIA FOR GEOTEXTILE: THE FABRICS SHALL BE TREVIA SPUNBOND 1135, MIRAFI 600X OR EQUAL.

2. MAINTENANCE
   THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHT–OF–WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERWAYS.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



INSTALLATION DETAIL

OIL–ABSORBANT SILTSACK®

(FOR AREAS WHERE THERE IS A CONCERN FOR OIL RUN–OFF OR SPILLS)

DEPENDING ON YOUR PARTICULAR APPLICATION, THE SILTSACK® CAN BE MADE FROM EITHER ONE OF THE ABOVE FABRICS WITH AN OIL–ABSORBANT PILLOW INSERT OR, MADE COMPLETELY FROM AN OIL–ABSORBANT SILTSACK®, WITH A WOVEN PILLOW INSERT.

SILTSACK®
SPECIFICATIONS

NOTE: THE SILTSACK WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS. AS SUPPLIED BY AH HARRIS OF PORTSMOUTH OR APPROVED EQUAL

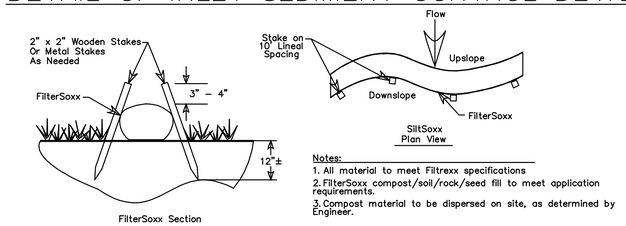
REGULAR FLOW SILTSACK®
(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN–OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D–4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D–4632	20 %
PUNCTURE	ASTM D–4833	120 LBS
MULLEN BURST	ASTM D–3786	800 PSI
TRAPEZOID TEAR	ASTM D–4533	120 LBS
UV RESISTANCE	ASTM D–4355	80 %
APPARENT OPENING SIZE	ASTM D–4751	40 US SIEVE
FLOW RATE	ASTM D–4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D–4491	0.55 SEC –1

HI–FLOW SILTSACK®
(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN–OFF)

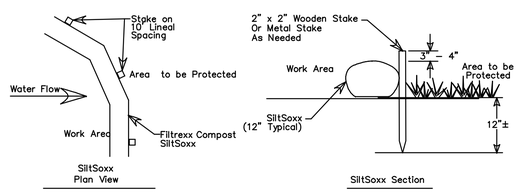
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D–4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D–4632	20 %
PUNCTURE	ASTM D–4833	135 LBS
MULLEN BURST	ASTM D–3786	420 PSI
TRAPEZOID TEAR	ASTM D–4533	45 LBS
UV RESISTANCE	ASTM D–4355	90 %
APPARENT OPENING SIZE	ASTM D–4751	20 US SIEVE
FLOW RATE	ASTM D–4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D–4491	1.5 SEC –1

DETAIL OF INLET SEDIMENT CONTROL DEVICE



Notes:
1. All material to meet Filtrexx specifications
2. FilterSoxx compost/soil/rock/seed fill to meet application requirements.
3. Compost material to be dispersed on site, as determined by Engineer.

FilterSoxx Staking Details



Notes:
1. All material to meet Filtrexx specifications
2. SiltSoxx compost/soil/rock/seed fill to meet application requirements.
3. SiltSoxx depicted is for minimum slopes. Greater slopes may require larger socks per the Engineer.
4. Compost material to be dispersed on site, as determined by Engineer.

SILTSOXX DETAILS

SEEKING REPORTS OF RARE TURTLES

The NH Fish & Game Department is collecting observations of four turtle species:

Blanding's turtle (state endangered)
- Large, dark/black domed shell with lighter speckles
- Distinct yellow throat/chin
- Aquatic but often moves on land

Wood turtle (special concern)
- Sculpted, pyramidal brownish shell
- Orange around neck and limbs
- River/stream turtle spending many months on land

Eastern box turtle (state endangered)
- Small terrestrial turtle with highly domed shell
- Irregular yellow or orange markings over brown/black base

Spotted turtle (state threatened)
- Small, mostly aquatic with black or dark brown with yellow spots.
- Fairly flat shell compared to Blanding's turtle

Report sightings to RAARP@wildlife.nh.gov or 603-271-2461 *Please report promptly, noting specific location and date – Photographs strongly encouraged*

NOTES:
1. *ALL OUTSIDE CONSTRUCTION PERSONNEL SHALL RECEIVE TRAINING IN THE IDENTIFICATION OF RARE TURTLE SPECIES AND MADE AWARE OF THEIR PROTECTED STATUS.*
2. *THE USE OF WELDED PLASTIC OR 'BIODEGRADABLE PLASTIC' NETTING OR THREAD IN EROSION CONTROL MATTING IS PROHIBITED*
3. *THE USE OF EROSION CONTROL BERM, WHITE FILTREXX DEGRADABLE WOVEN SILT SOCK, OR 'WILDLIFE FRIENDLY' WOVEN ORGANIC MATERIAL (E.G. COCO OR JUTE MATTING SUCH AS NORTH AMERICAN GREEN SC150BN OR EQUIVALENT) ARE ACCEPTABLE FOR USE*
4. *IF WOOD, SPOTTED, OR BLANDING'S TURTLES ARE FOUND LAYING EGGS IN THE WORK AREA, PLEASE CONTACT MELISSA DOPERALSKI AT 271–1738 or JOSH MEGYESY AT 271–1125 FOR FURTHER INSTRUCTIONS.*

NOT FOR CONSTRUCTION FOR PERMIT USE ONLY

PLANNING FILE NO.: P22–23

CIVILWORKS NEW ENGLAND
CIVIL & WATERFRONT ENGINEERING
181 Watson Road, PO Box 1166
Dover, New Hampshire 03821
603.749.0443

NO.	REVISION	APP'D	DATE
1	PER TRC COMMENTS	SJH	4–29–2022

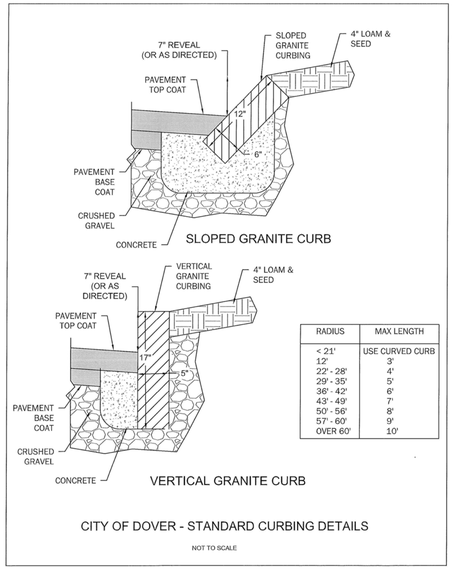
DATE: 3–23–22
SCALE: NOTED
DRAWN BY: MJM
DESIGN BY: DJL
APPROVED BY: SJH
PROJECT NO: 18043
FILE: 18043–SITE

EROSION CONTROL DETAIL SHEET

WESTFIELD, LLC.
340 CENTRAL AVENUE
SUITE 202
DOVER, NH, 03820

WESTFIELD, LLC
3 LOT SUBDIVISION
64 LITTLEWORTH ROAD
DOVER, NEW HAMPSHIRE

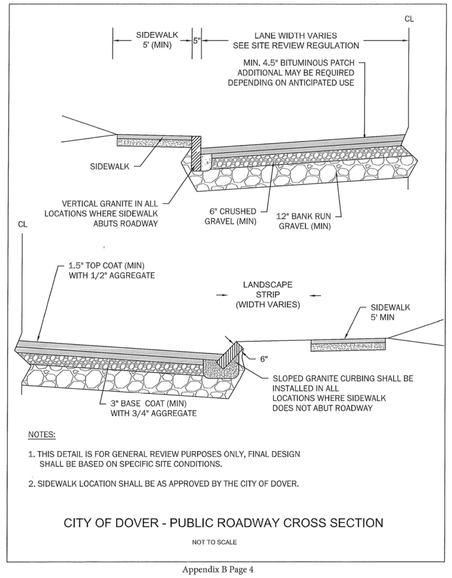
18



RADIUS	MAX LENGTH
< 21'	USE CURVED CURB
12'	3'
22' - 28'	4'
29' - 35'	5'
36' - 42'	6'
43' - 49'	7'
50' - 56'	8'
57' - 60'	9'
OVER 60'	10'

CITY OF DOVER - STANDARD CURBING DETAILS

NOT TO SCALE

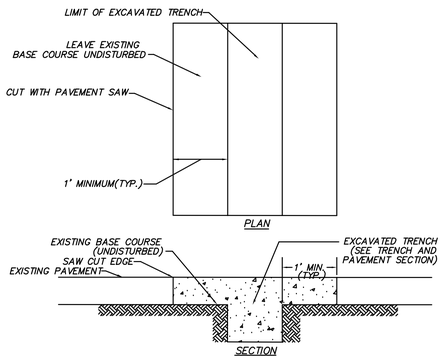


NOTES:

1. THIS DETAIL IS FOR GENERAL REVIEW PURPOSES ONLY, FINAL DESIGN SHALL BE BASED ON SPECIFIC SITE CONDITIONS.
2. SIDEWALK LOCATION SHALL BE AS APPROVED BY THE CITY OF DOVER.

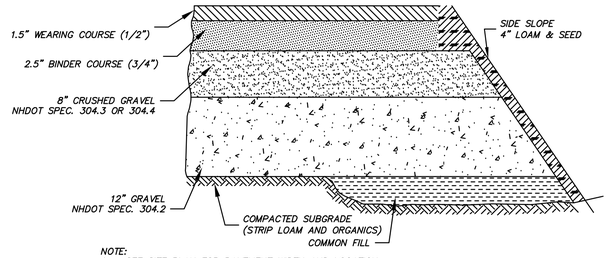
CITY OF DOVER - PUBLIC ROADWAY CROSS SECTION

NOT TO SCALE



TRENCH PATCH

NOT TO SCALE

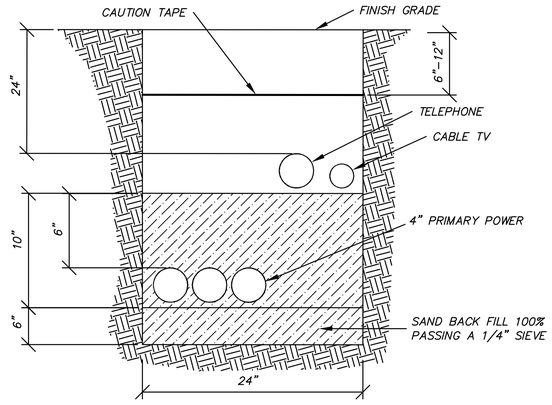


NOTE:

1. SEE SITE PLAN FOR PAVEMENT WIDTH AND LOCATION.
2. SEE GRADING, DRAINAGE AND EROSION CONTROL PLAN FOR PAVEMENT SLOPE AND CROSS-SLOPE.
3. GEOTEXTILE FABRIC MAYBE REQUIRED UNDER THE ROADWAY AND /OR THE PARKING AREAS AS REQUIRED BY THE ENGINEER BASED UPON SITE CONDITIONS.

HEAVY DUTY TYPICAL PAVEMENT SECTION

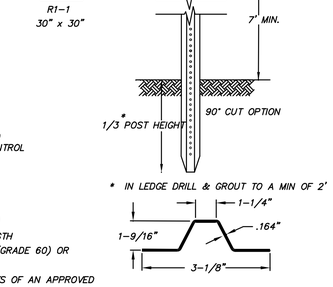
NOT TO SCALE



1. TELEPHONE CONDUIT SHALL BE 3" SCHEDULE 40 PVC, WITH STEEL SWEEPS AT RISER POLE, 90° BENDS AND AT BUILDING.
2. LEAVE PULL ROPE IN ALL CONDUITS FOR CABLE INSTALLATION.
3. FOR COMPLETE SPECIFICATIONS SEE "PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE CONSTRUCTION SPECIFICATIONS FOR UNDERGROUND CONDUIT SYSTEMS".
4. CONTRACTOR SHOULD VERIFY THE NUMBER & SIZE OF CONDUIT WITH THE APPROPRIATE UTILITIES.

UTILITY TRENCH

NOT TO SCALE



NOTE:

1. ALL SIGNS TO BE INSTALLED AS INDICATED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

LENGTH: AS REQUIRED

WEIGHT PER LINEAR FOOT: 2.50 LBS (MIN.)

HOLES: 3/8" DIAMETER, 1" C-C FULL LENGTH

STEEL: SHALL CONFORM TO ASTM A-499 (GRADE 60) OR ASTM A-576 (GRADE 1070 - 1080)

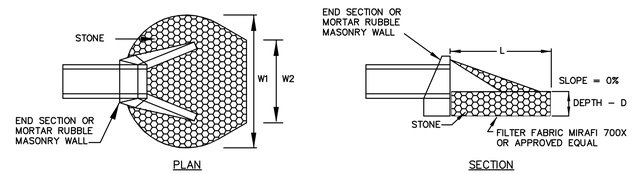
FINISH: SHALL BE PAINTED WITH TWO COATS OF AN APPROVED MEDIUM GREEN

BAKED ON OR AIR DRIED, PAINT OF WEATHER RESISTANT QUALITY.

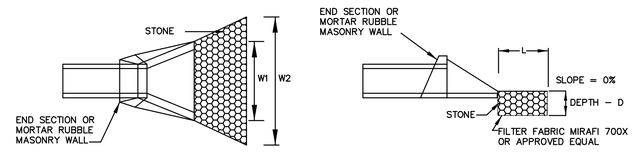
ALL FABRICATION SHALL BE COMPLETE BEFORE PAINTING.

SIGN LEGEND & SIGN POST

NOT TO SCALE



STONE APRON OUTLET PROTECTION DETAIL
OUTLET TO DEFINED CHANNEL



STONE APRON OUTLET PROTECTION DETAIL
OUTLET TO FLAT AREA, NON DEFINED CHANNEL

MAINTENANCE

THE OUTLET PROTECTION SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM. IF THE RIPRAP HAS BEEN DISPLACED, UNDERMINED OR DAMAGED, IT SHOULD BE REPAIRED IMMEDIATELY. THE CHANNEL IMMEDIATELY BELOW THE OUTLET SHOULD BE CHECKED TO SEE THAT EROSION IS NOT OCCURRING. THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO THE OUTLET PROTECTION APRON.

STONE GRADATION

% OF WEIGHT SMALLER THAN THE GIVEN SIZE	SIZE OF STONE
100	1.5 TO 2.0 D50
85	1.3 TO 1.8 D50
50	1.0 TO 1.5 D50
15	0.3 TO 0.5 D50

CONSTRUCTION SPECIFICATIONS

1. THE SUBGRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND RIPRAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.
2. THE ROCK OR GRAVEL USED FOR FILTER OR RIPRAP SHALL CONFORM TO THE SPECIFIED GRADATION.
3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIPRAP. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
4. STONE FOR THE RIP RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.

OUTLET FROM	W1(ft)	W2(ft)	L(ft)	D (ft)	D50(IN)	CHANNEL TYPE
FES1	2	5	5	1	6	UNDEFINED
FES2	4	18	14	1	6	UNDEFINED
FES3	12	5	12	1	6	DEFINED

RIP RAP OUTLET PROTECTION

NOT TO SCALE

NOT FOR CONSTRUCTION FOR PERMIT USE ONLY

PLANNING FILE NO.: P22-23

CIVILWORKS NEW ENGLAND
CIVIL & WATERFRONT ENGINEERING
181 Watson Road, PO Box 1166
Dover, New Hampshire 03821
603.749.0443

NO.	REVISION	APP'D	DATE
1	PER TRC COMMENTS	SJH	4-29-2022

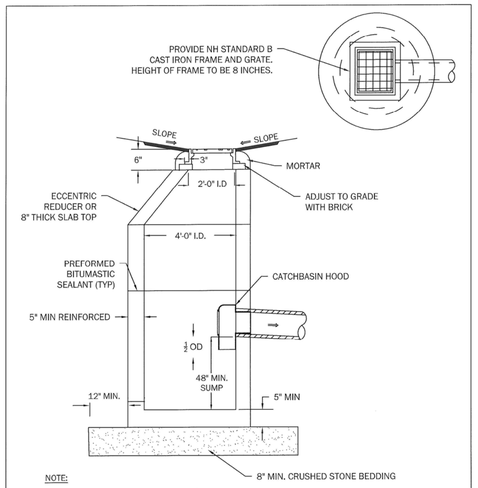
DATE: 3-23-22
SCALE: NOTES
DRAWN BY: MJM
DESIGN BY: DJL
APPROVED BY: SJH
PROJECT NO: 1804.3
FILE: 1804-SITE SUBDIVISION

DETAIL SHEET 1

WESTFIELD, LLC.
340 CENTRAL AVENUE
SUITE 202
DOVER, NH, 03820

WESTFIELD, LLC
3 LOT SUBDIVISION
64 LITTLEWORTH ROAD
DOVER, NEW HAMPSHIRE

19

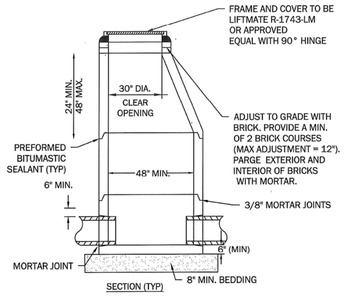


NOTE:

ENTIRE STRUCTURE SHALL BE CAPABLE OF WITHSTANDING AN H - 20 LOAD DETAILS OF REINFORCEMENT TO BE FURNISHED BY MANUFACTURER

CITY OF DOVER - CATCHBASIN

NOT TO SCALE



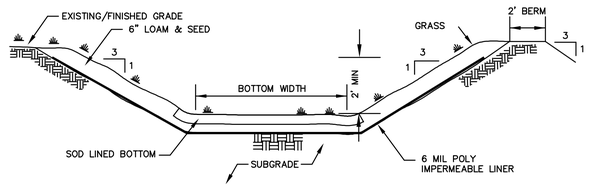
SECTION (TYP)

CITY OF DOVER - DRAIN MANHOLE

NOT TO SCALE

SPECIFICATIONS

1. All construction shall conform with the State of New Hampshire Department of Transportation (NHDOT), "Standard Specifications for Road and Bridge Construction"; hereinafter referred to as the "Standard Specifications".
2. Storm drains shall be ADS N12 or approved equal, and shall be jointed with neoprene "O" rings.
3. Catch basins and manholes shall be pre-cast reinforced concrete designed by an engineer registered in New Hampshire, and able to withstand loadings of 8 tons (H20 Loading).
4. Manholes shall have cast iron frames and covers with 30" inside diameter openings. A 3-inch (minimum) letter "D" for drain shall be plainly cast into the center of each cover.
5. Catch basins and manholes shall be adjusted to grade with courses of brick. Maximum adjustment to grade shall be 12 inches. Frames shall be set on a full bed of mortar, true to grade and concentric with the masonry. All voids between the top of the structure and the bottom flange of the frame shall be completely filled to make a watertight fit. A ring of mortar at least one inch thick and pitched to shed water away from the frame, shall be placed over and around the outside of the bottom flange. The mortar shall extend to the outer edge of the masonry all around its circumference and shall be finished smooth. No visible leakage will be permitted.
6. Invert channels of sewer manholes shall be formed smoothly to the largest pipe radius. Changes in grade shall be formed smoothly and evenly. The floor of the structure outside the channels shall be sloped towards the channels at approximately 1/2 inch per foot. The floor at the channel shall match the crown of the largest pipe.
7. Trench construction will conform with Section 603.3.1 of the Standard Specifications (1974).
8. Wood sheeting or a suitable trench box shall be used to support the trench as necessary. If wood sheeting is used, it shall be driven at a distance of 1 foot from the outside diameter of the pipe to a depth 6 inches below the invert of the pipe. Wood sheeting shall be cut off and left in place to an elevation not less than 1 foot above the top of the pipe, but not greater than 3 feet below the finished grade.
9. Bedding shall conform with Section 603.3.2 of the Standard Specifications (1974).
10. Backfill material will conform with Section 603.3.5 of the Standard Specifications (1974) and, in addition, shall exclude debris, pieces of pavement, organic matter, top soil, all wet or soft muck, peat or clay, all excavated ledge material, frozen material, all rocks over 6 inches in largest dimension, or any material which, as determined by the Engineer, will not provide sufficient support or maintain the completed construction in a stable condition. Backfill shall not be placed on frozen or previously frozen material.
11. All backfill and bedding compaction shall meet the requirements of AASHO T 99 Method C. Density shall be 95 percent. Compaction shall be 6 inch lifts for bedding and backfill to a plane 1 foot above the pipe and in 12 inch lifts thereafter by an approved mechanical compactor.
12. Should frozen material be encountered, it shall not be placed in the backfill nor shall backfill be placed upon frozen material. Previously frozen material shall be removed as required before new backfill is placed.
13. The Contractor shall be responsible for any damage to frames and grates during and from the time of removal from the existing structure to and during the time of resetting, and shall replace in kind any damaged frames or grates at no additional compensation.
14. All trenches will be covered and debris, including any rejected materials, shall be removed daily. Strict safety precautions shall be maintained at all times.
15. Location of utilities shown on the plans are approximate.
    a) The Contractor shall, 48 hours prior to construction, notify the utility companies and have all utilities in the vicinity of the construction marked in the field.
    b) After the utilities have been located and prior to construction, the Contractor with the Engineer, shall layout the proposed drainage system in the field and rectify any utility conflicts which may be found.
    c) Any conflicts with utilities found during construction by the Contractor shall be immediately brought to the attention of the Engineer and the Utility Company and properly rectified.
    d) The Contractor is responsible for the cost of repair for any utilities damaged during construction. The Contractor shall contact the Utility Company to repair any damages, however, the Contractor may make appropriate repairs with the Utility Company's permission.
16. Complete shop drawings for pipe, manholes, catch basins, frames, grates and covers shall be submitted in triplicate for approval by the Engineer prior to the start of construction. Each shop drawing shall be checked and initialized by the Contractor to indicate approval before it is submitted to the Engineer.
17. Shop drawings for flat concrete covers shall be stamped prior to submission for approval by a New Hampshire Registered Professional Engineer.
18. Brick masonry for setting frames and brick and mortar plugs shall conform to the Standard Specification Section 604.2.4.



GRASSED TREATMENT SWALE

NOTES:

1. THE FOUNDATION AREA OF THE WATERWAY SHALL BE CLEARED AND GRUBBED OF ALL TREES, BRUSH, STUMPS, AND OTHER OBJECTIONABLE MATERIAL. MATERIALS REMOVED SHALL BE DISPOSED OF SO THEY WILL NOT INTERFERE WITH THE CONSTRUCTION OR PROPER FUNCTIONING OF THE WATERWAY.

2. THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS SECTION AS REQUIRED TO MEET THE DESIGN CRITERIA. THE WATERWAY SHALL BE FREE OF IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.

3. EARTH FILLS REQUIRED TO MEET SUBGRADE REQUIREMENTS BECAUSE OF OVER EXCAVATION OR TOPOGRAPHY SHALL BE COMPACTED TO THE SAME DENSITY AS THE SURROUNDING SOIL TO PREVENT UNEQUAL SETTLEMENT THAT COULD CAUSE DAMAGE TO THE COMPLETED WATERWAY. EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE WATERWAY.

4. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER AS TO MINIMIZE EROSION AND AIR AND WATER POLLUTION. ALL APPROPRIATE STATE AND LOCAL LAWS AND REGULATIONS SHALL BE COMPLIED WITH FOR INSTALLATION.

5. VEGETATION SHALL BE ESTABLISHED IN THE SWALE PRIOR TO ALLOWING STORMWATER RUNOFF TO FLOW THROUGH THE SWALE.

6. MAINTENANCE OF THE VEGETATION IN THE GRASSED WATERWAY IS EXTREMELY IMPORTANT IN ORDER TO PREVENT RILLING, EROSION, AND FAILURE OF THE WATERWAY. MOWING SHOULD BE DONE FREQUENTLY ENOUGH TO CONTROL ENCROACHMENT OF WEEDS AND WOODY VEGETATION AND TO KEEP THE GRASSES IN A VIGOROUS CONDITION. THE VEGETATION SHOULD NOT BE MOWED TOO CLOSELY SO AS TO REDUCE THE EROSION RESISTANCE IN THE WATERWAY.

7. THE WATERWAY SHOULD BE INSPECTED PERIODICALLY AND AFTER EVERY MAJOR STORM TO DETERMINE THE CONDITION OF THE WATERWAY. RILLS AND DAMAGED AREAS SHOULD BE PROMPTLY REPAIRED AND REVEGETATED AS NECESSARY TO PREVENT FURTHER DETERIORATION.

8. PERIODIC APPLICATIONS OF LIME AND FERTILIZER MAY BE NEEDED TO MAINTAIN VIGOROUS GROWTH.

GRASSED TREATMENT SWALE

NOT TO SCALE

STRUCTURE	WIDTH (ft)	LENGTH (ft)	SLOPE (ft/ft)
TS 1	.	.	.

NOT FOR CONSTRUCTION FOR PERMIT USE ONLY

PLANNING FILE
NO.: P22-23

CIVILWORKS NEW ENGLAND
CIVIL & WATERFRONT ENGINEERING
181 Watson Road, PO Box 1166
Dover, New Hampshire 03821
603.749.0443

NO.	REVISION	APP'D	DATE
1	PER TRC COMMENTS	SJH	4-29-2022

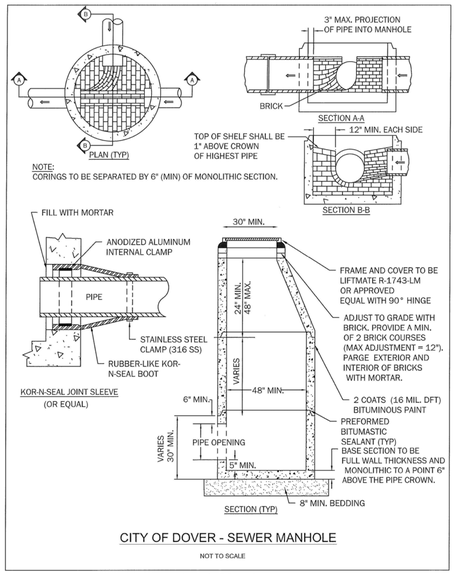
PROJECT NO: 1804.3
FILE: 1804-SITE SUBDIVISION
APPROVED BY: SJH
DESIGN BY: DJL
DRAWN BY: MJM
SCALE: NOTES
DATE: 3-23-22

DETAIL SHEET 2

WESTFIELD, LLC.
340 CENTRAL AVENUE
SUITE 202
DOVER, NH, 03820

WESTFIELD, LLC
3 LOT SUBDIVSION
64 LITTLEWORTH ROAD
DOVER, NEW HAMPSHIRE

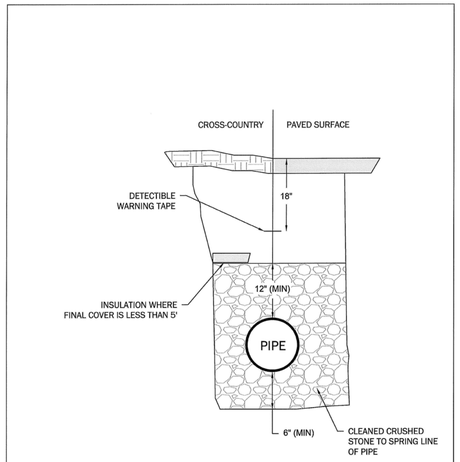
20



CITY OF DOVER - SEWER MANHOLE

NOT TO SCALE

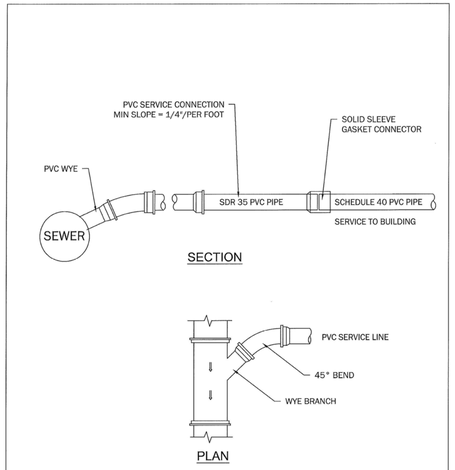
Appendix B Page 12



CITY OF DOVER- TYPICAL SEWER/DRAINLINE TRENCH

NOT TO SCALE

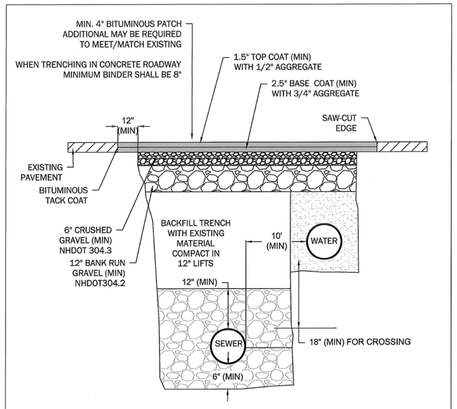
Appendix B Page 13



CITY OF DOVER - SEWER SERVICE

NOT TO SCALE

Appendix B Page 15



NOTES:

1. TRENCH SHALL BE COMPACTED TO 95% OPTIMUM DENSITY.
2. ALL WORK SHALL COMPLY WITH THE CITY OF DOVER CONSTRUCTION GUIDELINES AND PROCEDURES

CITY OF DOVER - TYPICAL TRENCH DETAIL

NOT TO SCALE

Appendix B Page 3

NOTE:

1. ALL WATER LINES 4" OR GREATER SHALL BE DUCTILE IRON WITH AN 8 MIL POLYETHYLENE WRAP. CONTRACTOR MAY FORGO WRAPPING PIPE IF THE DUCTILE IRON PIPE IS ZINC-COATED, TEES AND OTHER CONNECTIONS WILL STILL NEED TO BE WRAPPED.

CITY OF DOVER - WATERLINE TRENCH

NOT TO SCALE

NOTE:

1. ALL WATER LINES 4" OR GREATER SHALL BE DUCTILE IRON WITH AN 8 MIL POLYETHYLENE WRAP. CONTRACTOR MAY FORGO WRAPPING PIPE IF THE DUCTILE IRON PIPE IS ZINC-COATED, TEES AND OTHER CONNECTIONS WILL STILL NEED TO BE WRAPPED.
2. WATER SERVICE LINES SHALL BE COPPER TUBING (TYPE K) BETWEEN MAIN AND CURB STOP.
3. SERVICE BETWEEN CURB STOP AND BUILDING MAY BE SDR 9 CTS (BLUE) PLASTIC POLYETHYLENE RATED FOR 250 psi.

CITY OF DOVER - WATER SERVICE CONNECTION

NOT TO SCALE

THRUST BLOCK SCHEDULE
MINIMUM BEARING AREA (SQUARE FEET)

	PIPE SIZE					
Nominal Dia. (in)	4	6	8	10	12	16
Tees, Caps, Plugs, & Tapping Sleeves	1.05	2.32	4.15	6.37	9.15	16.23
90 Degree Bends	1.48	3.29	5.86	9.01	12.93	22.96
45 Degree Bends	0.80	1.78	3.17	4.88	7.00	12.42
22-1/2 Degree Bends	0.41	0.91	1.62	2.49	3.57	6.33
11-1/4 Degree Bends	0.21	0.46	0.81	1.25	1.79	3.18
	System Pressure: 100 psi Safety Factor: 1.5 Soil Bearing Capacity: 2,000 psf					

THE MINIMUM BEARING AREAS SHOWN IN THE THRUST BLOCK SCHEDULE ARE BASED ON A SYSTEM PRESSURE OF 100 PSI. IF THE SYSTEM PRESSURE IS ABOVE 100 PSI, INCREASE THE NOTED AREAS PROPORTIONAL TO THE ACTUAL SYSTEM PRESSURE. FOR EXAMPLE, IF THE ACTUAL SYSTEM PRESSURE IS 160 PSI, MULTIPLY THE ABOVE VALUES BY 160%.

CITY OF DOVER - PRECAST CONCRETE THRUST BLOCK & ANCHOR

NOT TO SCALE

Appendix B Page 11

NOTES:

1. FIRE HYDRANT TO BE EDDY 2641.
2. HYDRANT TO BE PAINTED RED.
3. HYDRANT SHALL OPEN LEFT.

CITY OF DOVER - HYDRANT

NOT TO SCALE

Appendix B Page 10

NOT FOR CONSTRUCTION FOR PERMIT USE ONLY

PLANNING FILE NO.: P22-23

CIVILWORKS NEW ENGLAND
CIVIL & WATERFRONT ENGINEERING
181 Watson Road, PO Box 1166
Dover, New Hampshire 03821
603.749.0443

NO.	REVISION	APP'D	DATE
1	PER TRC COMMENTS	SJH	4-29-2022

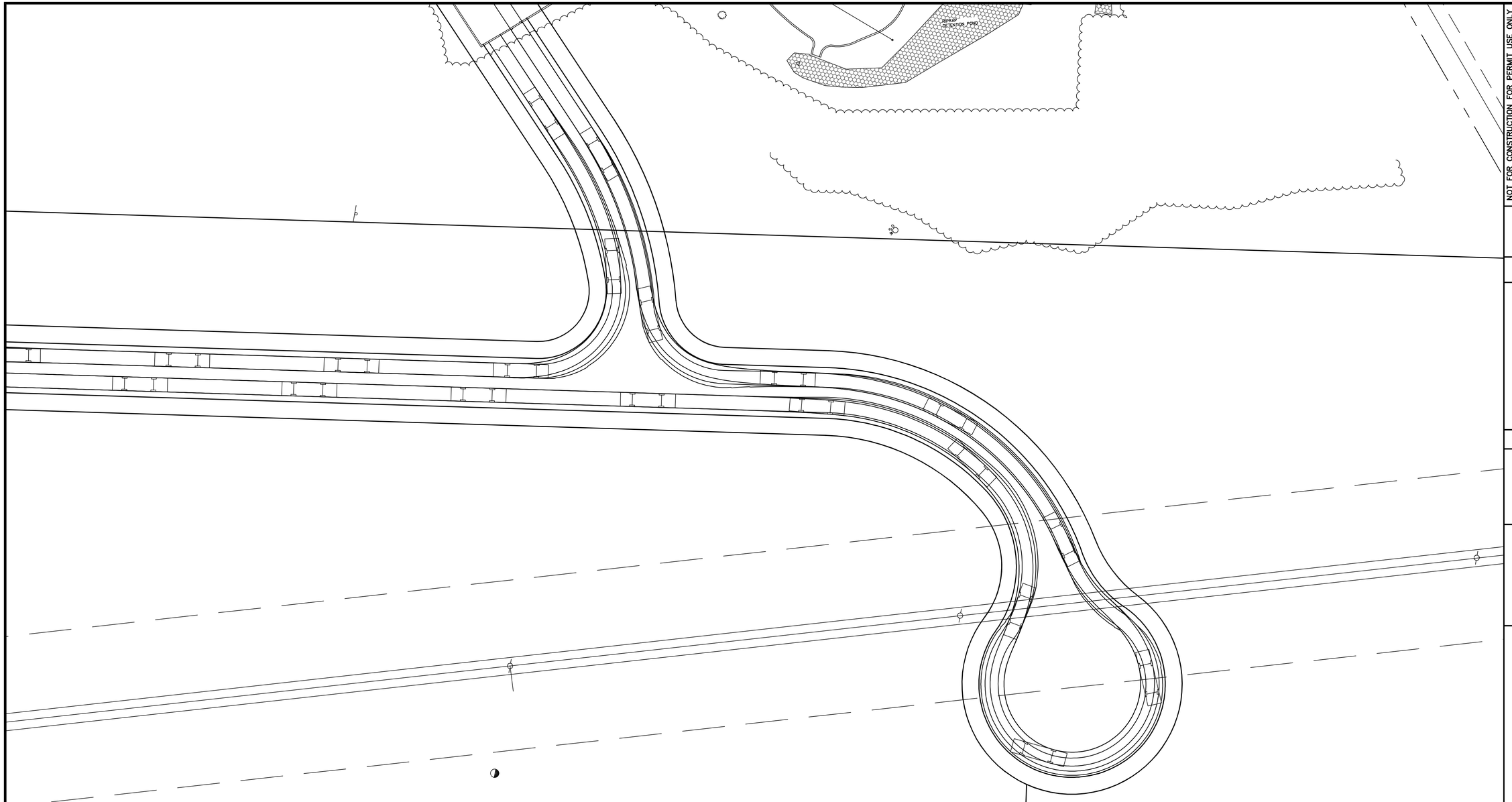
DATE: 3-23-22
SCALE: NOTES
DRAWN BY: MJM
DESIGN BY: DJL
APPROVED BY:SJH
PROJECT NO:18043
FILE:18043-SITE SUBDIVISION

DETAIL SHEET 3

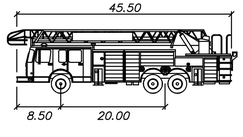
WESTFIELD, LLC.
340 CENTRAL AVENUE
SUITE 202
DOVER, NH, 03820

WESTFIELD, LLC
3 LOT SUBDIVISION
64 LITTLEWORTH ROAD
DOVER, NEW HAMPSHIRE

21



G/2-3 2022-02-18
1,044,730 S.F.
23.98 Ac.



Dover Idder	feet
Width	: 8.50
Track	: 8.50
Lock to Lock Time	: 6.0
Steering Angle	: 44.0

G/2-4 2022-02-18
1,230,377 S.F.
28.25 Ac.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

NOT FOR CONSTRUCTION FOR PERMIT USE ONLY

PLANNING FILE
NO.: P22-23

CIVILWORKS NEW ENGLAND
CIVIL & WATERFRONT ENGINEERING
181 Watson Road, PO Box 1166
Dover, New Hampshire 03821
603.749.0443

NO.	REVISION	APP'D	DATE
1	PER TRC COMMENTS	SJH	4-29-2022

DATE: 3-23-22
SCALE: 1"=30'
DRAWN BY: M.M
DESIGN BY: DJL
APPROVED BY: SJH
PROJECT NO: 18043
FILE: 18043-SITE SUBDIVISION

CUL DE SAC ENLARGED ROAD 2 - EXHIBIT

WESTFIELD, LLC.
340 CENTRAL AVENUE
SUITE 202
DOVER, NH, 03820

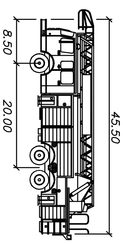
WESTFIELD, LLC
3 LOT SUBDIVISION
64 LITTLEWORTH ROAD
DOVER, NEW HAMPSHIRE

22

I.R.(set)

I.P.(fnd)

I.R.(set)



Dover Idder

	feet
Width	: 8.50
Track	: 8.50
Lock to Lock Time	: 6.0
Steering Angle	: 44.0

NO PARKING

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

CUL DE SAC ENLARGED ROAD 3 – EXHIBIT

23

WESTFIELD, LLC
3 LOT SUBDIVSION
64 LITTLEWORTH ROAD
DOVER, NEW HAMPSHIRE

WESTFIELD, LLC.
340 CENTRAL AVENUE
SUITE 202
DOVER, NH, 03820

DATE: 3-23-22				
SCALE: NOTES				
DRAWN BY: MJM				
DESIGN BY: DJL				
APPROVED BY:SJH				
PROJECT NO:18043	1	PER TRC COMMENTS	SJH	4-29-2022
FILE:18043-SITE SUBDIVISION	NO.	REVISION	APP'D	DATE

NOT FOR CONSTRUCTION FOR PERMIT USE ONLY

PLANNING FILE
NO.: P22-23

CIVILWORKS NEW ENGLAND
CIVIL & WATERFRONT ENGINEERING
181 Watson Road, PO Box 1166
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