

THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

District 6 Office, PO Box 740, Durham, NH 03824



William Cass, P.E. Commissioner

DRIVEWAY PERMIT

To: Paul Thibodeau City/Town: Barrington Permit #: 06-027-614

Thibodeau Family Revocable Trust Route/Road: NH 9 (S0000009) District: 06

76 Young Road Patrol Section: 603 Permit Date 3/13/2023

Barrington, NH 03825 Tax Map: 234 Lot: 77

Development: Residential / Commercial

Permission is hereby granted to construct (alter) a driveway, entrance, exit or approach adjoining NH 9 (\$0000009), pursuant to the location and specifications as described below. Failure to adhere to the standards and engineering drawings previously approved shall render this instrument null and void. Failure to start or complete construction of said facility within one calendar year of the date of this permit shall require application for permit extension or renewal in accordance with the Driveway Access Rules. Facilities constructed in violation of the permit specifications or the rules, shall be corrected immediately upon notification by a Department representative. Any cost by the State to correct deficiencies shall be fully borne by the landowner. The landowner shall defend, indemnify and hold harmless the Department and its duly appointed agents and employees against any action for personal injury and/or property damage sustained by reason of the exercise of this permit.

Drive 1

Location: Approximately 0.15 miles west of Mallego Road on the north side of NH 9 (\$0000009).

GPS: 43.214116 N 71.002592 W.

Specifications: This permit authorizes a paved access to be used as a Multi-Family Residential drive. Any change in use, increase in use or reconstruction of the driveway requires reapplication.

The right-of-way line is located at the stonewall.

The entrance shall be graded so that the surface of the drive drops 6 inches at a point 12 feet from NH 9 (\$0000009) edge of pavement to create a drainage swale.

The driveway shall not exceed 24 feet in width. The entrance of the drive may be flared; typically the flare radius is one half the driveway width.

Other Conditions:

No structures, including buildings, permanent or portable signs, lights, displays, fences, walls, etc. shall be permitted on, over or under the Highway Right of Way.

No parking, catering or servicing shall be conducted within the Highway Right of Way.

The applicant shall comply with all applicable ordinances and regulations of the municipality or other State Agencies.

The Department has relied on the title and subdivision information provided by the landowner. The Department has not performed additional title research and makes no warranty or representation concerning landowner's legal right to access. In the event of a dispute about the landowner's legal right to the access provided herein, the landowner will defend and indemnify the Department.

All excavated topsoil, or in the absence of topsoil the top 6 inches of soil, within the limits of state ROW shall be properly re-used within the limits of the state ROW. All temporary stockpiles of the re-use material shall be located within the state ROW, or as otherwise approved by the District Engineer.

The Contractor shall be solely responsible for the handling, transport and disposal of any surplus material generated by their project and shall comply with all federal, state and local laws, ordinances and rules in doing so.

Date: 3/13/2023 ApplID: 8995 Page 1

06-027-61

I/We, the contractor/Owner, certify that the property will not have any illicit unauthorized drainage connections to the NHDOT storm water drainage system. An illicit discharge is any direct or indirect discharge to the NHDOT drainage system that is not composed entirely of storm water. Illicit discharges include, without limitation, sewage, process wastewater, or wash water and any connections from floor drains, sinks, or toilets.

- 1. This permit is for access to 6- Single-Family Residences with 6- Commercial Spaces on the lower walkout level
- 2. The construction of one mixed use residential / commercial driveway entrance is permissible. Construct per "Mixed-Use Development Plans" Tax Map 234, Lot 77, N.H. Route 9, Barrington, N.H., prepared for The Thibodeau Family Rev. Trust, Paul F. & Linda A. Thibodeau Trustees, by Beals Associates, LLC, dated August 2022, and revised on November 16, 2022 and February 2, 2023, on file with this office.
- 3. Drive 1 (access to lot 77), the existing drive to lot 74 (permit # 06-027-194), the existing drive to lot 75, and the existing drive to lot 76 (permit # 06-027-191) are the only points of access allowed for this lot of record. There shall be no additional points of access permitted within the frontage of this parcel of property. Other access to the highway is to be prevented. No part of the right-of-way may be used for any purpose other than travel.
- 4. A culvert with a flared end section at each end is required to maintain existing highway drainage and shall be maintained by the landowner. Minimum pipe diameter shall be 12 inches. Minimum depth of cover is to be per manufacturer's specifications.
- 5. All season safe sight distance shall be maintained by the landowner as per RSA 236:13. The applicant's two abutters to the east (Kay and Henderson) and his one abutter to the west (Morrison), have a sightline easement agreement on their properties in favor of the applicant (lot 77) whether it is needed or not as described in the "Agreement between adjoining owners creating sight line easement", recorded at the Strafford County Registry of Deeds on June 2, 2021, in Book 4937, Page 298. (attached)
- 6. This permit supersedes permit 06-027-594, dated October 4, 2021, (temp logging) and permit 06-027-448, dated November 8, 2005.
- 7. Interruptions to traffic shall be kept to a minimum and be maintained in accordance with the most current edition of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). When conditions warrant, flaggers and or uniformed officers shall be utilized and be of a competent nature.
- 8. The applicant will be responsible for mitigation should the future use of this driveway unfavorably impact the highway.
- 9. Contact the NHDOT District 6 office at 868-1133 at least 72 hours prior to driveway construction activities to allow NHDOT the opportunity to review driveway layout prior to paving.

Approved

Copies: District, Town, Patrolman

Assistant District Engineer
For Director of Administration

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

District 1, 641 Main St, Lancaster, NH 03584 District 2, 8 Eastman Hill Road, Enfield, NH 03748 District 3, 2 Sawmill Rd, Gilford, NH 03249

Permit Number Assigned:

District 4, 19 Base Hill Road, Swanzey, NH 03446 District 5, 16 East Point Drive, Bedford, NH 03110 District 6, PO Box 740, Durham, NH 03824

APPLICATION FOR DRIVEWAY PERMIT

8995

	(2000-01, permission is e(s) to my property on t	requested to (select) he (select): North S	one): Construct Alter
The driveway entrance(s) requested is (are) for Describe nature and size of industry, business 2.5 Feet (select) North South / East / W Feet (select Feet or Miles): North / So	Reside or subdivision: Keside or Subdivision: Keside	nce Industry, Busine Ingle Pamily Iber. PS NH 3	ss Subdivision, Other Compounts + OFFICE
Town Tax Map # 234	and Lot #_	77	
As the landowner (or designated applicant) 1. To construct driveway entrance the highway right-of-way is us 2. To construct driveway entrance specifications as issued by the 4. To defend, indemnify and hold appointed agents and employer reason of the exercise of this p 5. To furnish and install drainage adequately handle increased ruful. 6. I am the owner or a duly author constructed. I have provided act the Department. I understand that the Department does redisputes.	e(s) only for the bonafide ted for no purpose other the e(s) at permitted location(se(s) in accordance with state New Hampshire Department of harmless the New Hampses against any action for permit. I structures that are necessed and fresulting from the landerized agent of the owner of accurate and complete title that the Department is rely not perform independent title.	an travel. s). atutes, rules, standard dient of Transportation. shire Department of Traersonal injury and/or prary to maintain existing and development and obtoot the parcel upon which and subdivision informating on this information the research or make jud	rawings, and permit ensportation and its duly operty damage sustained by highway drainage and ain all easements thereto. In the driveway will be nation concerning the parcel to in considering this application algments about title or access
 For new driveway(s), include confidence 1, 1971 of the parcel. If this parcomplete subdivision plans and 	rcel is part of a larger tra	act subdivided after Ju	ıly 1, 1971, then provide
Attach sketch or plan showing edistance to town road, town line utility pole (including pole num letter than the same of Landowner (Applicant)	e, or other readily identified bers) OCALOGORIVET Mailing A		nark and also to the nearest
Printed Name of Landowner	Town/Cit	ty, State, Zip Code	500, 7792
Date: 1/25/2023 Contact / Agent, if not Landowner:	Telephon	e Number(s) 60.	3-767-3552 Mail. Com
			DECEIVED
FOR OFFICE USE ONLY: GPS N = W Section: W	GPS W =	Speed:	JAN 2 5 2023
Right of Way:	Drainage:	SLD:	NHDOT DISTRICT 6
Conditions:			MUDOL DISTRICTS

- § 236:13 Driveways and Other Accesses to the Public Way. I. It shall be unlawful to construct, or alter in any way that substantially affects the size or grade of, any driveway, entrance, exit, or approach within the limits of the right-of-way of any class I or class III highway or the state-maintained portion of a class II highway that does not conform to the terms and specifications of a written permit issued by the Commissioner of transportation.
- II. Pursuant to this section, a written construction permit application must be obtained from and filed with the department of transportation by any abutter affected by the provisions of paragraph I. Before any construction or alteration work is commenced, said permit application shall have been reviewed, and a construction permit issued by said department. Said permit shall:
- (a) Describe the location of the driveway, entrance, exit, or approach. The location shall be selected to most adequately protect the safety of the traveling public.
- (b) Describe any drainage structures, traffic control devices, and channelization islands to be installed by the abutter.
- (c) Establish grades that adequately protect and promote highway drainage and permit a safe and controlled approach to the highway in all seasons of the year.
- (d) Include any other terms and specifications necessary for the safety of the traveling public.
- III. For access to a proposed commercial or industrial enterprise, or to a subdivision, all of which for the purposes of this section shall be considered a single parcel of land, even though acquired by more than one conveyance or held nominally by more than one owner:
- (a) Said permit application shall be accompanied by engineering drawings showing information as set forth in paragraph II.
- (b) Unless all season safe sight distance of 400 feet in both directions along the highway can be obtained, the commissioner shall not permit more than one access to a single parcel of land, and this access shall be at that location which the commissioner determines to be safest. The commissioner shall not give final approval for use of any additional access until it has been proven to him that the 400-foot all season safe sight distance has been provided.
- (c) For the purposes of this section, all season safe sight distance is defined as a line which encounters no visual obstruction between 2 points, each at a height of 3 feet 9 inches above the pavement, and so located as to represent the critical line of sight between the operator of a vehicle using the access and the operator of a vehicle approaching from either direction.
- IV. No construction permit shall allow:
- (a) A driveway, entrance, exit, or approach to be constructed more than 50 feet in width, except that a driveway, entrance, exit, or approach may be flared beyond a width of 50 feet at its junction with the highway to accommodate the turning radius of vehicles expected to use the particular driveway, entrance, exit or approach.
- (b) More than 2 driveways, entrances, exits or approaches from any one highway to any one parcel of land unless the frontage along that highway exceeds 500 feet.
- V. The same powers concerning highways under their jurisdiction as are conferred upon the commissioner of transportation by paragraphs I, II, III and IV shall be conferred upon the planning board in cities and towns in which the planning board has been granted the power to regulate the subdivision of land as provided in RSA 674:35, and they shall adopt such regulations as are necessary to carry out the provisions of this section. Such regulations may delegate administrative duties, including actual issuance of permits, to a highway agent, board of selectmen, or other qualified official or body. Such regulations, or any permit issued under them, may contain provisions governing the breach, removal, and reconstruction of stone walls or fences within, or at the boundary of, the public right of way, and any landowner or landowner's agent altering a boundary in accordance with such provisions shall be deemed to be acting under a mutual agreement with the city or town pursuant to RSA 472:6, II (a).
- VI. The commissioner of transportation or planning board shall retain continuing jurisdiction over the adequacy and safety of every existing driveway, entrance, exit, and approach to a highway, whether or not such access was constructed or installed pursuant to a permit under this section, and, unless the access is a public highway, the owners of property to which the access is appurtenant shall have continuing responsibility for the adequacy of the access and any grades, culverts, or other structures pertaining to such access, whether or not located within the public right of way. If any such access is or becomes a potential threat to the integrity of the highway or its surface, ditches, embankments, bridges, or other structures, or a hazard to the safety of the traveling public, by reason of siltation, flooding, erosion, frost action, vegetative growth, improper grade, or the failure of any culvert, traffic control device, drainage structure, or any other feature, the commissioner of transportation or planning board or their designee may issue an order to the landowner or other party responsible for such access to repair or remove such hazardous condition and to obtain any and all permits required therefor. The order shall describe the hazard, prescribe what corrective action or alteration in the location or configuration of such access shall be required, and set a reasonable time within which the action shall be completed. Such an order shall be sent by certified mail, and shall be enforceable to the same extent as a permit issued under this section. If the order is not complied with within the time prescribed, the commissioner or planning board or their designee may cause to be taken whatever action is necessary to protect the highway and the traveling public, and the owner or other responsible party shall be civilly liable to the state or municipality for its costs in taking such action.
- § 236:14 Penalty. Any person who violates any provision of this subdivision or the rules and regulations made under authority thereof shall be guilty of a violation if a natural person, or guilty of a misdemeanor if any other person; and, in addition, shall be guilty of a condition satisfactory to the person empowered to give such written permission.

REGISTER OF DEEDS STRAFFORD COUNTY

TOWN OF BARRINGTON, NH NOTICE OF VOLUNTARY MERGER PURSUANT TO RSA 674:39-4

Property Owner(s) Name:

David R. Henderson, Trustee of The David R. Henderson Living Revocable Trust, and Glenda J. Henderson, Trustee

of The Glenda J. Henderson Living Revocable Trust

Address:

174 Route 9, Barrington, New Hampshire 03825

Telephone:

603-664-9005

Parcels Affected By This Merger:

3371/0290

Mup & Lot # 234/78

Buok & Page 2981/0499 auditment/mok/meget

Map & Lot # 234/77

Book & Page 2039/0055

Lucation of Parcel(s): Route 9, Barrington, New Hampshire.

I (We) understand that no such merged parcels shall thereafter be separately transferred without subdivision approval.

I (We) understand that I (we) must file a copy of this notice with the Registry of Deeds and a copy of the same will be forwarded to the assessing officials of Barrington, NH.

Date

May 12, 2006

May 12, 2006

FOR OFFICE USE ONLY

Date Received: Wax IR, 2006

Date Reviewed: May 18 306

Endorsed By: Daniel Hatia

for the Barrington Planning Board.

497.eg. PLO BARRINGTON TAX MAP 234 234-71 4.1 Ac KAY BK 1935 PG 125 59₉, DEED MISSING Z COURSES 18 Ac A GRAY LOT 234-74 2.64 Ac 234-73 LOTS 77\$ 78 2 1.2 Ac VOLUNTARILY MERGED SCRA BK 3376 P6 Z3Z 81.34. MAY 23 1 2006 Moremon 3 234-75 1.06 Ac 234-76 TRACT I 2.08 Ac PERMIT 06-027-194 7/2/1934 TRACT 2 234-78 2.31 AL 1.3 Ac EXISTING DRIVE NO PERMIT FOUND HOUSE PROBABLY BUILT PERMIT 1941-1960 06-027-191 5/16/1984 239-1.1 86 Qg. 28.99 Ac = JULY 1, 1971 LOT OF RECORD LOS K/A LOSIAN CORSON LOS (C) = CURPENT LOT 1055 239=1 6.03 Ac 80% ROUTE 9 75.52 239-116 PROPOSED DRIVE 1 PREVIOUS PERMIT, 25 Ac 85.51 153.44 864.15 FRONTAGE 06-027-448 11/8/2005 106.3 ON LOT OF PELORD NOT CONSTRUCTED 326.2 FRAM 3 EXISTING DRIVES (E) 70
1 PRO POSED TOWN OF BARRINGTON TEMP LOGGING PERMIT NO. 06-027-594 19/4/2021 130 EXPIRED 239-115 239-114 PINE GROVE CEMETERY 2.44 Ac 0.72 Ac 4.

Return To: Paul Thibodeau 76 Young Road Barrington, NH

RECEIVED

FFB 1 7 2023

E·Doc # 210015550 Book 4937 Page 298 08/02/2021 10:03:27 AM Page 1 of 7

Catherine A. Berube
Register of Deeds, Strafford County
LCHIP STA183527 25.00
TRANS TAX ST855424 40.00

NHDOT DISTRICT 6

AGREEMENT BETWEEN ADJOINING OWNERS CREATING SIGHT LINE EASEMENT

Agreement made on the day of _______, 2021, between, Richard W. Kay and Anna R. Kay, as Trustees of the Kay Family Revocable Trust of 2020 of 21 Littleworth Road, Dover, Strafford County, New Hampshire; Ray Morrison and Susan Morrison of 687 Franklin Pierce Highway, Barrington, Strafford, New Hampshire; and David R. Henderson, Trustee of the David R. Henderson Living Revocable Trust and Glenda J. Henderson, Trustee of the Glenda J. Henderson Living Revocable Trust of 1237 Winged Foot Lane, Denver, North Carolina (collectively "GRANTORS") and Paul Thibodeau of 76 Young Road, Barrington, Strafford County, New Hampshire ("GRANTEE")

The parties recite and declare as follows:

- A. Richard W. Kay and Anna R. Kay, Trustees of the Kay Family Revocable Trust of 2020 are the owners of land in Barrington, Strafford County, New Hampshire bounded and described as follows: Beginning at the south corner of land formerly owned by Andrew T. Meserve and running S. 12 degrees W 10 rods; thence running S. 40 degrees W 48 rods; thence running S. 43 degrees E 50 ½ rods; thence running S 40 degrees W to the road leading by the house n/f of John H. Waldron to Dover 27 rods; thence running easterly by said road 4 rods; thence running N. 22 degrees E 3 rods; thence running N. 42 degrees W. 50 rods to the bounds begun at.
- B. Ray Morrison and Susan Morrison are the Owners of land in Barrington, Strafford County, New Hampshire shown as Lot No. 3 on a plan entitled "Plan of Sub-Division, Madeline A. Trela, Barrington, New Hampshire" dated August, 1974 and recorded March 31, 1976 in the Strafford County Registry of Deeds as Plan #16A-64.
- C. David R. Henderson, Trustee of the David R. Henderson Living Revocable Trust and Glenda J. Henderson, Trustee of the Glenda J. Henderson Living Revocable Trust are the Owners of land in Barrington, Strafford County, New Hampshire shown as Lot 1-1 on a plan entitled: "Subdivision Plan Prepared

NHDOT DISTRICT 6

for David R & Glenda J Henderson of Tax Map 239/Lot 1 Located at NH Route 9 County of Strafford, Barrington, NH" and recorded in the Strafford County Registry of Deeds as Plan No. 87-37.

D. Paul Thibodeau is the owner of land in Barrington, Strafford County, New Hampshire shown as Lot 4 on a plan entitled "Plan of Sub-Division, Madeline A. Trela, Barrington, New Hampshire" dated August, 1974 and recorded March 31, 1976 in the Strafford County Registry of Deeds as Plan #16A-64 and a parcel of land in said Barrington, Strafford County, New Hampshire bounded and described as follows: Beginning at an iron post found at the southwestern-most point of the premises herein conveyed on the northerly side of Route 9, so-called; thence running N 42° 21' 45" E for a distance of four hundred seventy five and five hundredths feet (475.05'), more or less, along Lot 4 as shown on said Plan, to an iron post found; thence turning and running on a southeasterly course for a distance of one hundred thirty five feet (135'), more or less, to a point, thence turning and running on a southwesterly course along a stone wall to a point on the northerly side of a stone wall and Route 9, so-called; thence turning and running southwesterly along said stone wall and Route 9 to the point of beginning.

In consideration of the above recitals and the terms and covenants of this agreement, the parties agree as follows:

An easement for a reciprocal 400' sight line easement that shall run from the driveway to be installed in Grantee's land across land of the Grantor's. The proposed driveway location will have a center that is approximately 100' west of the land of Richard W. Kay and Anna R. Kay, Trustees of the Kay Family Revocable Trust of 2020. Said driveway is expected to be approximately 25' wide.

Each party agrees to maintain that portion of the easement lying and being on their side of the boundary line, provided however that the parties agree that should any portion of the sight view easement area become overgrown with brush and vegetation, any owner may prune the same and the brush shall be hauled away.

Each party agrees to keep that portion of the easement lying and being on their side of the boundary line free from any and all obstructions.

This agreement shall run with the land and be binding upon and inure to the benefit of the parties hereto and their respective heirs, legal representatives, successors and assigns.

The easement created by this agreement is superior and paramount to the rights of either of the parties to this agreement in the respective servient estates so created, and the parties further agree that it is a covenant that shall run with the land.

RECEIVED

FEB 1 7 2023

NHDOT DISTRICT 6

WITNESS our signatures as of the 2 th day of _____, 2021.

Richard W. Kay, Trustee of the Kay Family Revocable Trust of 2020

Anna R. Kay, Trustee of the Kay Family Revocable Trust of 2020

State of New Hampshire County of Strafford; ss:

Personally appeared the above named Richard W. Kay and Anna R. Kay, Trustees of the Kay Family Revocable Trust of 2020, before me this day of day of , 2021 known to be the persons whose names are subscribed to the foregoing instrument and acknowledged that they executed the same for the purposes therein contained.

VICTORIA M. HORAN
NOTARY PUBLIC
State of New Hampshire
My Commission Expires
September 27, 2022

Notary Jublic/Justice of the Peace My Commission Expires:

WITNESS our signatures as of the day of July, 202

RECEIVED

FEB 1 7 2023

NHDOT DISTRICT 6

State of New Hampshire County of Strafford; ss:

Ray Morrison

Personally appeared the above named Ray Morrison before me this day of a contained.

2021 known to be he person whose name is subscribed to the foregoing the contained.

VICTORIA M. HORAN NOTARY PUBLIC State of New Hampshire My Commission Expires September 27, 2022

Notary Public/Justice of the Peace My Commission Expires:

WITNESS our signatures as of the day of July, 2021.

RECEIVED

FEB 1 7 2023

NHDOT DISTRICT 6

State of New Hampshire County of Strafford; ss:

Personally appeared the above named Susan Morrison before me this day of day of ,2021 known to be the person whose name is subscribed to the foregoing instrument and acknowledged that she executed the same for the purposes therein contained.

Notary Public/Justice of the Peace

My Commission Expires: December 19, 2023

Christine MC Nigro
Notary Public, State of New Hampshire
My Commission Expires Dec. 19, 2023

WITNESS our signatures as of the day of
David R. Henderson, Trustee David R. Henderson Living Revocable Trust David R. Henderson Living Revocable Trust David R. Henderson Living Revocable Trust
State of N.C. County of Lincoln; ss: Personally appeared the above named David R. Henderson, Trustee of the David R. Henderson Living Revocable Trust and Glenda J. Henderson, Trustee of the Glenda J. Henderson Living Revocable Trust hefore me this 22 day of A.
J. Henderson Living Revocable Trust, before me this 27 day of, 2021 known to be the persons whose names are subscribed to the foregoing instrument and acknowledged that they executed the same for the purposes therein contained.
Notary Public/Justice of the Peace My Commission Expires: any 9, 2022

RECEIVED

FEB 1 7 2023

NHDOT DISTRICT 6

WITNESS our signatures as of the 30th day of July, 2021

Thibodeau Family Revocable Trust

Paul F. Thibodeau, Trustee

Linda A. Thibodeau, Trustee

State of New Hampshire County of Rockingham; ss:

Personally appeared the above named Paul F. Thibodeau and Linda, A. Thibodeau, Trustees of the Thibodeau Family Revocable Trust before me this day of day of ..., 2021 known to be the persons whose names are subscribed to the foregoing instrument and acknowledged that they executed the same for the purposes therein contained.

VICTORIA M. HORAN NOTARY PUBLIC State of New Hampshire My Commission Expires September 27, 2022

Notary Public/Justice of the Peace My Commission Expires:

RECEIVED

FEB 1 7 2023

NHDOT DISTRICT 6



Land Plenning - Civil Engineering Landscape Architecture - Septic Design & Evaluation Strathum, NM

February 3, 2023

Re: Thibodeau - Route 9, Barrington

RECEIVED

C/O James Hewitt NHDOT Bureau of Highway Maintenance PO Box 740 Durham, NH 03824 FEB **0 3** 2023

NHDOT DISTRICT 6

Jim,

The following is in response to your request for further information pertaining to the referenced project. Please be aware that the office/commercial trip generation numbers may be inflated as the most likely occupants of these spaces would be the homeowners. Finally, for the office use, fitted curve equations were not provided by ITE and the data was computed from the graphs provided in the ITE Manual.

Each of the 6-residential units will be 2-bedroom single-family dwellings with 480 s.f. commercial/office space in the bottom floor. Using the current ITE Trip Generation Manual we have developed the following.

DAILY TRAFFIC TRIP ENDS:

	Residential	Office/Commercial	Total
Weekday	78	44	122
Peak a.m. Weekday	9	5	14
Peak p.m. weekday	7	7	14

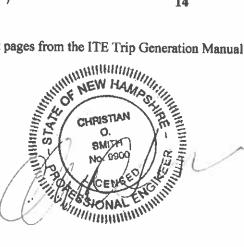
Please see attached calculations and Select pages from the ITE Trip Generation Manual 10th Edition – Volume 2.

Very Truly Yours,

BEALS ASSOCIATES, PLLC

Christian O. Smith

Christian O. Smith, PE Principal





Land Planning - Civil Engineering Landscape Architecture - Septic Design & Evolution Stratham, NH

NH-1387 - NH Route 9, Barrington, NH Traffic Generation Calculations ITE Trip Generation Manual 10th Edition

February 3, 2023

RECEIVED

Residential Use:

FEB 0 3 2023

Weekday:

NHDOT DISTRICT 6

Avg. vehicle trip ends vs. Dwelling units on a Weekday;

Fitted Curve Equation: Ln(T)=0.92xLn(X)+2.71 (where T=Trip Ends & X=Number of dwelling units)

Ln(T) = 0.92xLn(6)+2.71 Ln(T) = 1.6484+2.71 Ln(T) = 4.3584 $T = e^{4.3584}$

T = 78.13; 78 trips per day (39 exiting, 39 entering)

A.M. peak hour on Weekday (One hour between 7 a.m. - 9 a.m.):

Fitted Curve Equation: T=0.71x(X)+4.80 (where T=Trip Ends & X=Number of dwelling units)

T=0.71x(6)+4.80

T=4.26+4.80= 9.06; 9 trips per hour (5 exiting, 4 entering)

P.M. peak hour on Weekday (One hour between 4 p.m. - 6 p.m.):

Fitted Curve Equation: Ln(T)=0.96xLn(X)+0.20 (where T=Trip Ends & X=Number of dwelling units)

Ln(T)=0.96xLn(6)+0.20 Ln(T)=1.72+0.20= 1.92

 $T = e^{1.92} = 6.82$; 7 trips per hour (3 exiting, 4 entering)

CHRISTIAN ON THE STAND OF THE S

Hewitt, James

From:

Paul <paulthibodeau1@gmail.com>

Sent:

Wednesday, March 08, 2023 2:14 PM

To:

Christian Smith

Cc:

Hewitt, James; Locke, Kerry

Subject:

Re: Barrington, NH 9, Map 234 Lot 77

EXTERNAL: Do not open attachments or click on links unless you recognize and trust the sender.

Christian is correct. I have a sight easement through the west side abutter's property whether it is needed or not. Same is true for 2 abutters to the east.

On Mar 8, 2023, at 1:53 PM, Christian Smith < CSmith@bealsassociates.com > wrote:

Hi Jim, I believe this is an existing easement that simply may become unnecessary with the driveway upgrade. I will let Paul chime in if that is not correct.



Christian O. Smith, P.E.
Principal
Beals Associates, PLLC.
70 Portsmouth, Ave. 3rd Floor
Stratham, NH 03885
603-583-4860
603-583-4863
csmith@bealsassociates.com

From: Hewitt, James < James. A. Hewitt@dot.nh.gov>

Sent: Wednesday, March 8, 2023 8:40 AM

To: 'paulthibodeau1@gmail.com' <paulthibodeau1@gmail.com>

Cc: Christian Smith <csmith@bealsassociates.com>; Locke, Kerry <Kerry.W.Locke@dot.nh.gov>

Subject: RE: Barrington, NH 9, Map 234 Lot 77

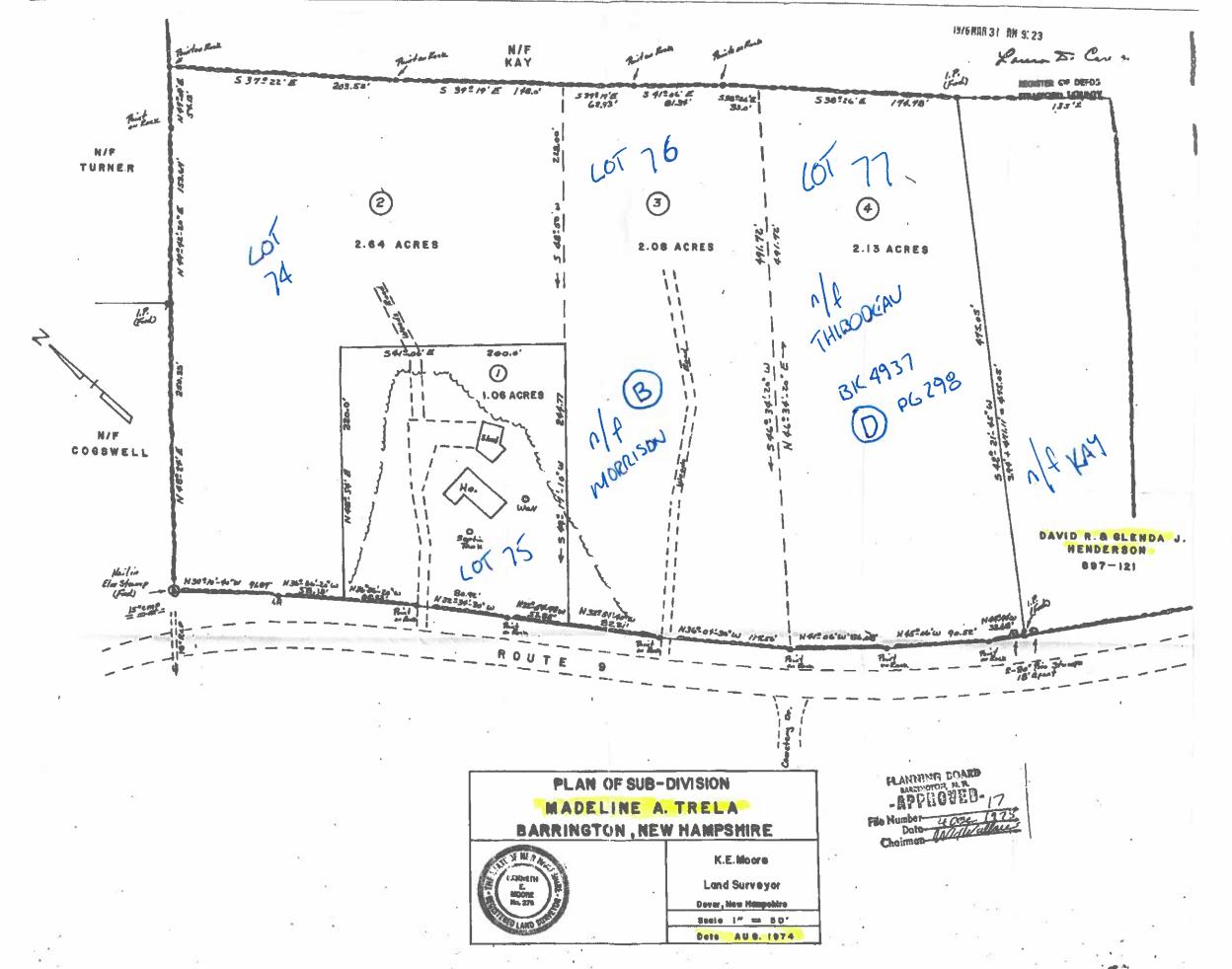
Paul:

The permit is assembled and ready for final review / signature. We noted there is a driveway sightline easement in favor of lot 77 on the 2 abutting properties to the east and one abutting property to the west.

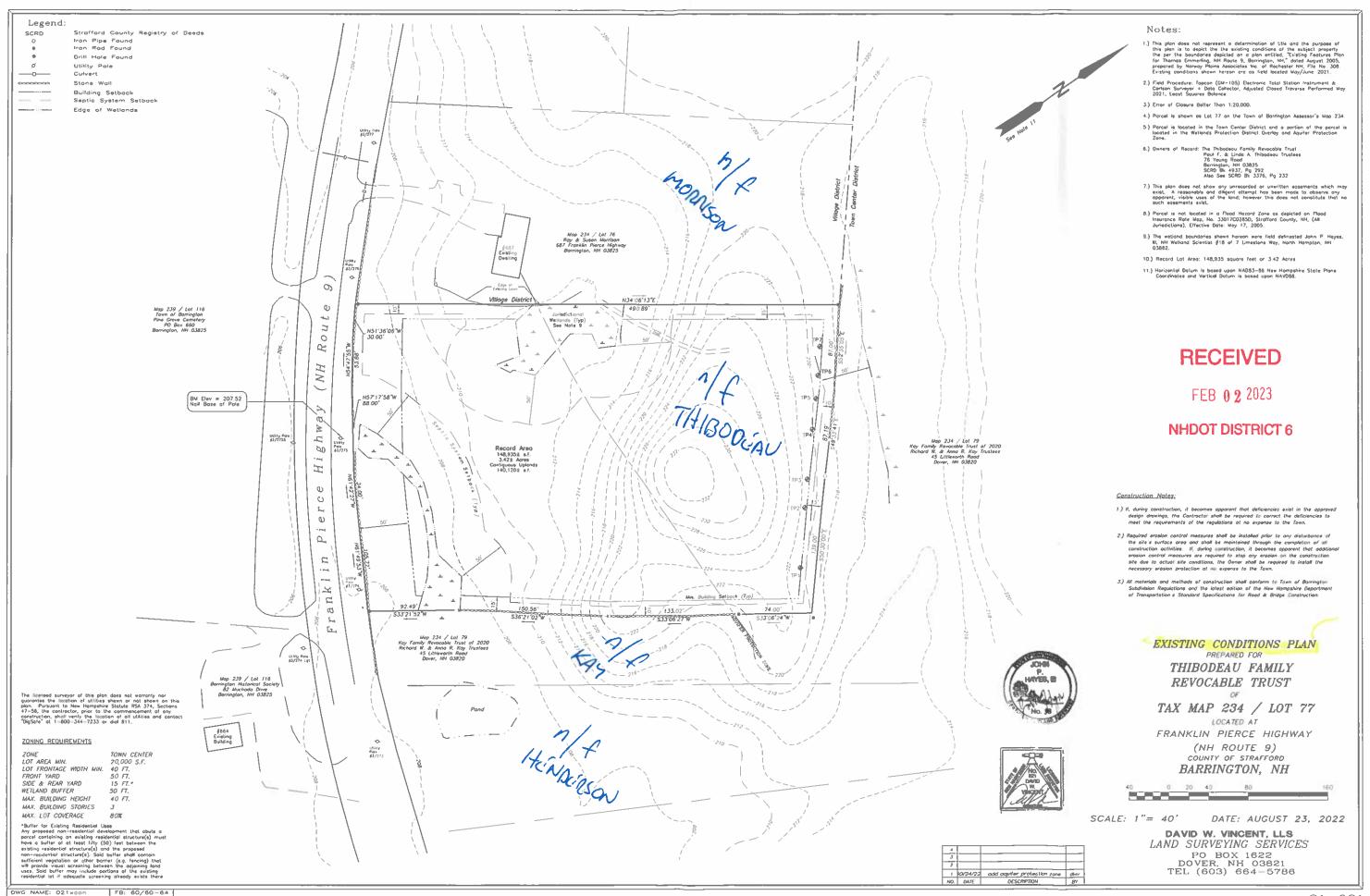
The 400-foot sightline for the proposed driveway as shown on the Beals plans appears to stay within the NH 9 right of way and not cross over abutting properties.

Did we misunderstand something?

15A/25



16/25



MIXED-USE DEVELOPMENT ROUTE 9 TAX MAP 234, LOT 77



LOCATION MAP

PLAN INDEX

TITLE SHEET	
EXISTING CONDITIONS PLAN	1
PARKING & PAVEMENT PLAN	2
GRADING PLAN	3
DRAINAGE & PROFILE PLAN	4
CONSTRUCTION DETAILS	5
CISTERN DETAIL SHEET	6
EROSION & SEDIMENT	
CONTROL DETAILS	7
HIGHWAY ACCESS PLAN	8

RECEIVED

FEB 0 2 2023

NHDOT DISTRICT 6

OWNER OF RECORD
THIBODEAU PAUL& LINDA
THIBODEAU FAMILY REV TRUST
76 YOUNG RD.
BARRINGTON, NH 03825

SICHATURE DATE

REQUIRED PERMITS

HIGHES WEILANDS SUREAU APPROVAL MUMBER: (PENDING NAMES SEPTIC APPROVAL MUMBER: (PENDING) NAME OF PERMIT MUMBER: (PENDING)

DATE	REVISIONS:		
10/21/2	ENGINEERING REVIEW	PER	REVISED
11/16/2	ENGINEERING REVIEW	PER	REVISED

PLANNING BOASD APPROVAL BLOCK





WETLAND/SOIL CONSULTANT

JOHN P. HAYES III CSS, CWS 7 LIMESTONE WAY NORTH HAMPTON, NH 03820 PHONE: 603-205-4396 JOHNPHAYES@COMCAST.NET

LAND SURVEYORS:

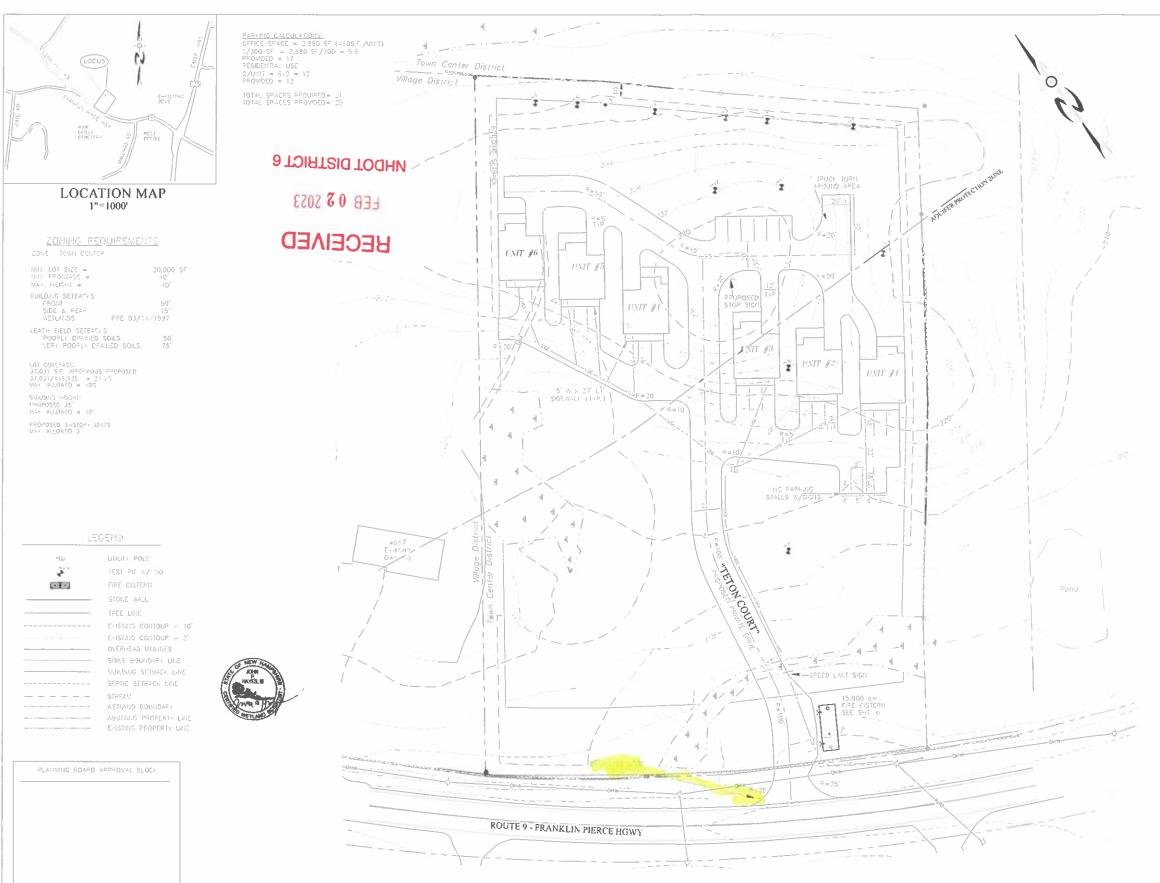
DAVID W. VINCENT, LLS LAND SURVEYING SERVICES PO BOX 1622 DOVER, NH 03821 1-603-664-5786



CIVIL ENGINEERS!



70 PORTSMOUTH AVE, THIRD FLOOR, SUITE 2 STRATHAM, N.H. 03885 PHONE: 603-583-4860, FAX. 603-583-4863



PREPARED FOR

THE THIBODEAU FAMILY REV. TRUST PAUL F & LINDA A, THIBODEAU TRUSTEES 76 YOUNG ROAD BARRINGTON, NH 03825



70 PORTSMOUTH AVE, THIRD FLOOR, SUITE 2 STRATHAM, N.H. 03885 PHONE: 603-583-4860, FAX: 603-583-4863

MICEPSPOUND FACILIES, UTLINES AND SIPUCTIPES HAVE HERE LOCATED FROM NEW GOSEP AND THE LOCATED FROM NEW GOSEP AND THE LOCATIONS MUST BE CONSIDERED ASPERDIANCE OUTLINESS TAKE ASSOCIATES OF ANY OF THE PURPOVERS TAKE ASSOCIATES OF ANY OF THE PURPOVERS TAKE ASSOCIATION FOR THE LOCATION OF ANY UNDESCRIPTION SIPUCTIFIES OF UTLINES TO SHOW. THAT MAY EAST ON SITE PERSONS FLOT OF THE CONTRAINED TO HAVE ALL UNDERGOODED UTLINES OF STRUCTURES LOCATED FACE OF ALL UNDERGOODED UTLINES OF STRUCTURES LOCATED FACE OF ALL UNDERGOODED UTLINES OF STRUCTURES LOCATED FACE OF THE CONTRAINED TO HAVE ALL UNDERGOODED UTLINES OF STRUCTURES LOCATED FACE OF THE CONTRAINED TO HAVE ALL UNDERGOODED UTLINES OF STRUCTURES LOCATED FACE OF THE CONTRAINED TO THE PROPERTY OF THE CONTRAINED TO THE

- This PLANT HAS SEEN PREPARED FOR MUNICIPAL AND STATE ARRESTANTS AND FOR CONTINUED THE PROSECUE OF DATA OF AND CONTINUED SHAPE FOR OUR AND CONTINUED SHAPE THROUGHOUT THE CONSTRUCTION AND FOR SHAPE OF AN AREA PROPERTY OF SHAPE INTO DATA AS SHAPE OF THE CONTINUED SHAPE INTO DATA AS SHAPE OF THE CONTINUED OF AN AREA OF THE CONTINUED SHAPE OF THE CONTINUED SHAPE OF THE PLANT HAS SHAPE OF THE CONTINUED SHAPE OF THE PLANT HAS SHAPE OF THE CONTINUED SHAPE OF THE PLANT HAS SHAPE OF THE CONTINUED SHAPE OF THE
- A 1 BENCHMARY'S AND TOPOGRAPHY SHOULD BE FIELD VERIFED BY THE CONTRACTOR
- ALL FOAD AND DRAMAGE WORK TO CONFORM TO TOWN STANDAR SECURICATIONS FOR CONSTRUCTION
- 5. ALL PROPOSED SIGHS SHALL CONFIDENT TO THE TOWN ZOWING REGULATION
- 6 PROJECT IS BASED ON USGS DATUM NAVO 1988 PEFERENCE BENCHMARK
- 7 THE LANDOWNER IS RESPONSIBLE FOR COMPLIMITION THAT APPLICABLE LOCAL STATE AND FEDERAL WITH AND REGULATIONS, NOTUDING ANY REPORTING AND SETPACE REQUIREMENTS REQUIRED UNDER THESE REGULATIONS.
- 8 SEE BETWE SHEET FOR STANDARD CONSTRUCTION HOTES AND DETAILS
- A TERAPORT OF TERRAIN PERMIT REALISMANT IS NOT REQUESTO AS THE TOTAL CAND DISTURBANCE IS LESS THAIL 100,000 S.F.

TO THE SITE IS NOT NOCKTED BY THE TOO YEAR PLOCO ZONE
THE APPLICATE SHALL PROVIDE THE TOAN WITH THREE COPIES OF THE
STORMWARER POLUTION PROFESSION PLAN (SAPPE) AND ALSO EASURE THAT
ONE COPY REVINANCE OF SITE.

INTERIT (FIGHT TO USER), ANSHINGTON, DC. STORMANTER MOTHER PROCESSING
CENTER AT LEAST EQUITIEST ON AT
STELLER MILEAST FOURTEST ON AT
STELLER MILEAST FOURTEST ON AT
STELLER MILEAST FOURTEST ON AT

DIRING CONSTRUCTION IT BECOMES APPARENT THAT DEFICIENCIES ERIST IN THE PROVIDED BESIGN DRAWNSS. THE DIMINES SHALL BE REQUIRED TO CORRECT THE BUSINESS OF BESIDES OF STRUCTURE OF THE PROPERTY OF THE PROPERTY

TOWN

15. DERNG CONSTRUCTION IN BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL
WEASLESS ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUT TO
ACTUAL SITE CONDITIONS. THE COWNER SHALE SE REQUIRED TO INSTALL THE MEETSTARY.

ALL MA ENALS AND METHORS OF CONSTRUCTION SHALL COME AN TO TOWN REQUIRED AND THE CLASS IS TO ID AN ED HIS MANAGEMENT OF TRANSPORTED AND STRANGED AND

UNDERGROUD FACTORS UTUINES AND STRUCTURES HAVE RESTAULTED FROM RELO OBSERVATION AND HER LOCATION MIST HE CONTINUERED APPROVINGE ONL INTERPRETAIN ASSISTANCES, NOR AND OF THEIR EMPHOYEES TAKE RESPONSEDLY, FOR THE LOCATION OF ANY UNDERGROUDS STRUCTURES OF UTUINES NOT SHOW! THAT TAKE LISTS IT IS THE PERSON SHOULD STRUCTURES AND/OF UTUINES LOCATED PROPER OF CREATIONS.

OPE BY CALLING 1-888-DIG-SAFE (1-888-344-7233)



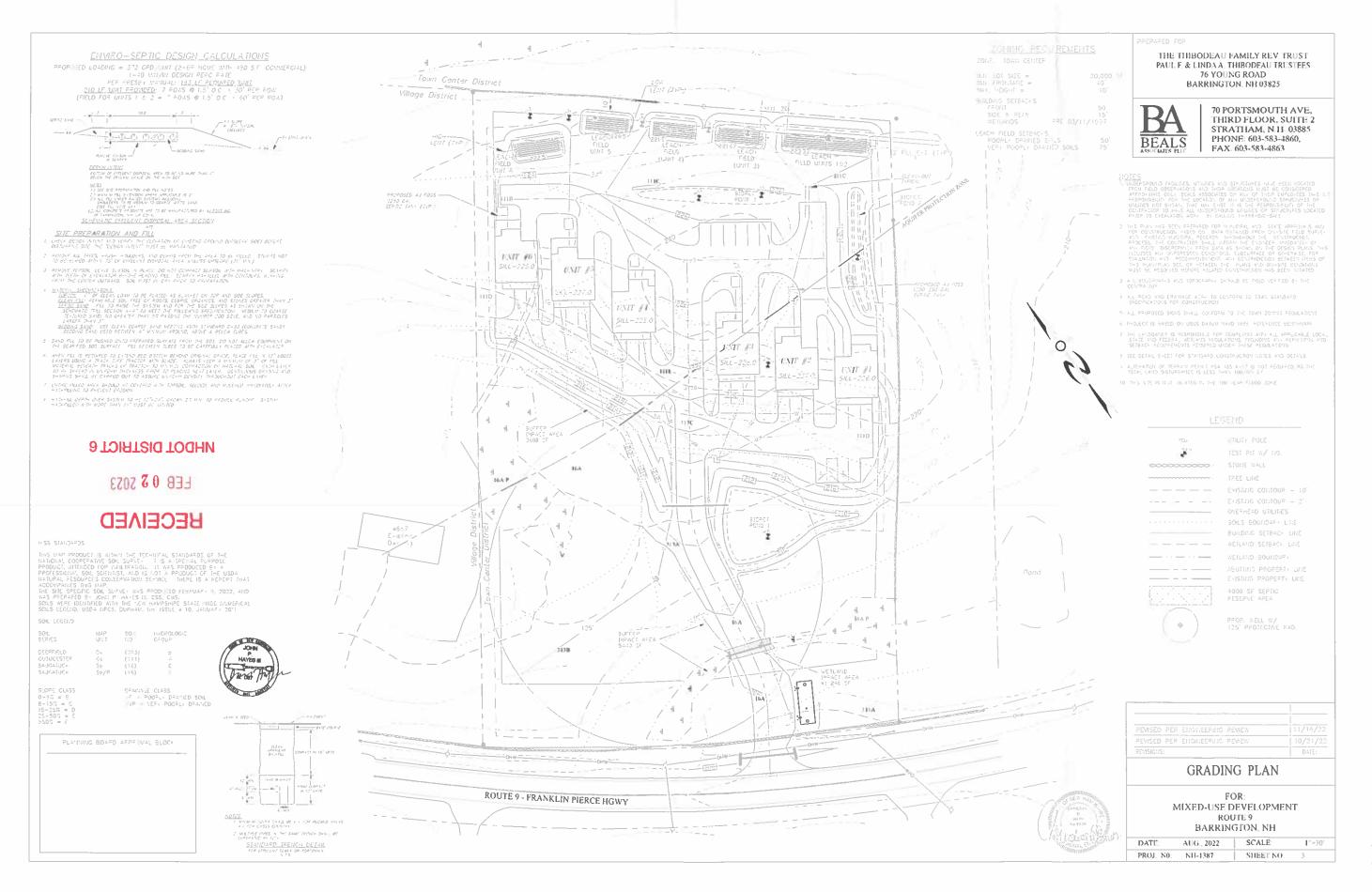


REMSED PER ENGINEERING REVIEW	11/16/22
REVISED PER ENGINEEPING REVIEW	10/21/22
REMSIONS:	DATE

PARKING & PAVEMENT PLAN

FOR: MIXED-USE DEVELOPMENT ROUTE 9 BARRINGTON, NH

DATE	AUG_2022	SCALE	1"=30"
PROJ NO:	NH-1387	SHEET NO.	2



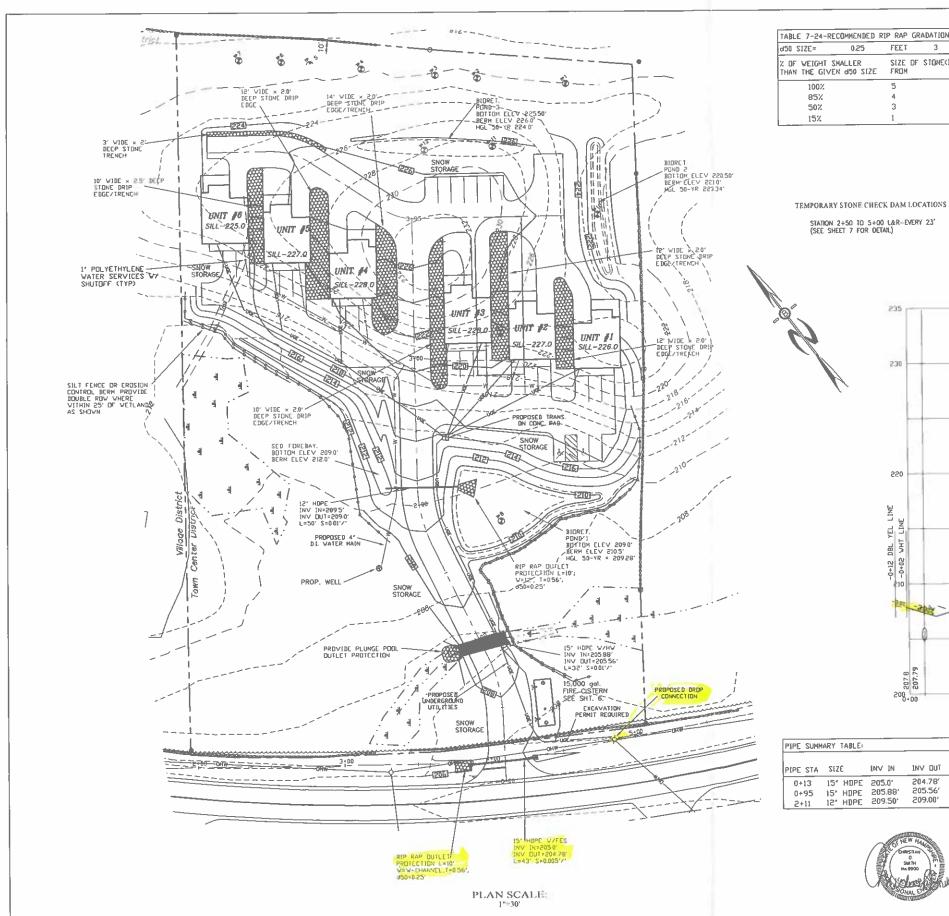


TABLE 7-24-RECOMMENDED RIP RAP GRADATION RANGES X OF WEIGHT SMALLER SIZE OF STONE(INCHES)
THAN THE GIVEN 050 SIZE FROM TO

PLANNING BOARD APPROVAL BLOCK

PREPARED FOR:

THE THIBODEAU FAMILY REV. TRUST PAUL F. & LINDA A. THIBODEAU TRUSTEES 76 YOUNG ROAD BARRINGTON, NH 03825



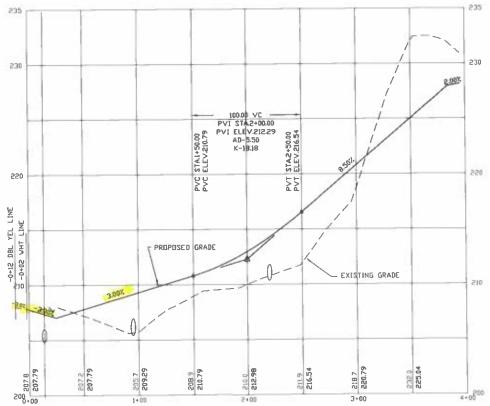
70 PORTSMOUTH AVE, THIRD FLOOR, SUITE 2 STRATHAM, N.H. 03885 PHONE: 603-583-4860, FAX. 603-583-4863

THE APPLICANT HAS DESIGNED THIS SITE TO SAFELY ACCOMMODATE MAXIMUM LENGTH VEHICLES AND TRUCKS (BOX TRUCK/FIRE TRUCK), EITHER DELIVERING TO, OR USING THE PROPERTY.

ALL SNOW SHALL BE STORED IN THE AREA(S) DEPICTED ON THIS PLAN AS SNOW STORAGE AREAS. IN THE EVENT THAT THE AREA(S) APPROVED FOR SNOW STORAGE BECOME FULL, THE OWNER SHALL REASONABLY REMOVE EXCESS SNOW FROM THE SITE, AND SHALL NOT ALLOW SNOW TO BE STORED WITHIN PARKING LOTS OR TRAVEL AISLES.

ALL WASTE MATERIALS AND RECYCLABLE SHALL BE CONTAINED WITHIN THE BUILDING(S) OR APPROVED STORAGE FACILITIES AND SHALL NOT BE OTHERWISE STORED ON THE PROPERTY.

THE LANDOWNER IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL WETLAND REGULATIONS, INCLUDING ANY PERMITTING AND SETBACK REQUIREMENTS REQUIRED UNDER THESE REGULATIONS.



PROFILE SCALES:

HORIZONTAL: 1"=4" VERTICAL: 1"=4"

MAR **0 3** 2023



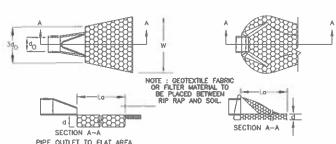
210.08

PER NHOOT REVIEW	3-2-23
REVISED PER ENGINEERING REVIEW	11/16/22
REVISED PER ENGINEERING REVIEW	10/21/22

DRAINAGE & PROFILE PLAN

FOR: MIXED-USE DEVELOPMENT ROUTE 9 BARRINGTON, NH

2	DATE	AUG., 2022	SCALIE	1"=30"
	PROJ. NO:	NH-1387	SHEET NO.	4



PIPE OUTLET TO FLAT AREA WITH NO DEFINED CHANNEL

PIPE OUTLET TO WELL-DEFINED CHANNEL

d50 SIZE=

PIPE OUTLET TO WELL—DEFINED CHANNEL

CONSTRUCTION SPECIFICATIONS

1. THE SUB GRADE FOR THE FILTER MATERIAL, CECTEXTILE FABRIC, AND RIP RAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.

2. THE ROCK OR GRAVEL USED FOR FILTER OF RIP RAP SHALL CONFORM TO THE SPECIFIED GRADATION 3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIP RAP 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 OVERLEYS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.

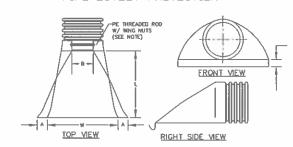
4. STONE FOR THE RIP RAP MAY BE PLACED BY COLUMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.

5. STONE FOR RIRAP SHALL BE ANGULAR OR SUBANGULAR. THE STONES SHOULD BE SHAPED SO THAT THE LEAST DIMENSION OF THE STONE FRAGMENT SHALL BE NOT LESS THAN ONE—THIRD OF THE GREATEST DIMENSION OF THE FROMENT.

6. FLAT ROCKS SHALL NOT USED FOR RIP RAP, VOIDS IN THE ROCK RIPRAP SHOULD BE FILLED WITH SPALLS AND SMALLER ROCKS.

1. THE OUTLET PROTECTION SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM, IF THE RIP RAP HAS BEEN DISPLACED, UNDERRINDED 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 CHECKED TO SEE THAT EROSION IS NOT OCCURRING. AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND DAMAGE TO OUTLET PROTECTION. 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 OUTLET PROTECTION.

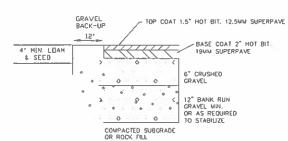
PIPE OUTLET PROTECTION



PART No.	PIPE SIZE	A	B(MAX)	н	L	W
1510-NP	15"	6.5"	10"	6.5"	25"	29"
	375 mm	165 mm	254 mm	165 mm	635 mm	735 mm
1810-NP	18"	7.5"	15"	6.5"	32"	35"
	450 mm	190 mm	380 mm	165 mm	812 mm	890 mm
2410-NP	24"	7.5"	18"	6.5"	36"	45"
	600 mm	190 mm	450 mm	165 mm	900 mm	1140 mm
3010-NP	30" 750 mm	10.5" 266 mm	N/A	7.0° 178 mm	53" 1345 mm	68" 1725 mm
3610-NP	36" 900 mm	10.5" 266 mm	N/A	7.0° 178 mm	53" 1345 mm	68" 1725 mm

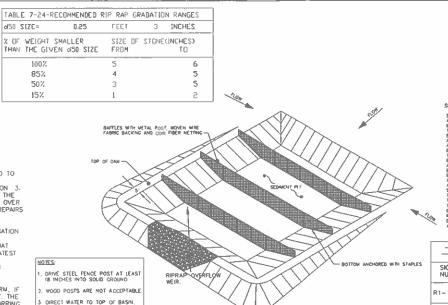
NOTE: PE THREADED ROD W/ WING NUTS PROVIDED FOR END SECTIONS 15"-24".
30" & 36" END SECTIONS TO BE WELDED PER MANUFACTURER'S RECOMMENDATIONS.

ADS N-12 FLARED END SECTIONS NOT TO SCALE (ALL DIMENSIONS ARE NOMINAL)

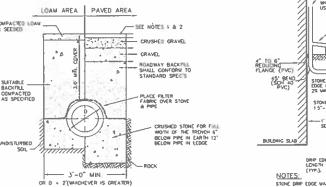


NOTE: IN AREAS OF ROCK EXCAVATION, MINIMUM 9" BANK RUN GRAVEL SHALL BE PLACED

TYPICAL PAVEMENT SECTION NEW ASPHALT - NTS



PERSPECTIVE VIEW TEMPORARY SEDIMENT BASIN



NOTE:

1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS.

2. NEW ROADWAY CONSTRUCTION SHALL CONFORM TO SUBDIVISION SPCC'S

3. BACKFILL MATERIALS SHALL BE SCREENED GRAVEL WITH NO STONES LARGER THAN TO

TYPICAL DRAINAGE TRENCH DETAIL

4° PVC ROOF LEADER WHEN GUTTERS ARE USED UNWOVEN GEOTEXTILE FABRIC LINES TOP AND SIDES OF DRIFF EDGE (AEF 480 BY GEOTECHNICAL SUPPLY, INC SPLASH BLOCK -2.5 ESHWT 🗸 STONE DRIP EDGE WAINTENANCE:

THE DRIP EDGES WILL BE INSPECTED IN THIN THE FIRST THREE MONTHS AFTER CONSTRUCTION, THEREATEN THE DRIP EDGES WILL BE NISPECTED 2 THREE PER YEAR TO FISHER THAT THEY ARE DISABHING WITHIN 72 HOURS OF A RAW EVENT EQUIVALENT TO 2.5" OR UDDE.

REMOVE AND DISPOSE OF SEDMENTS OR DEBRIS AS NEEDED TOTAL REMARKITATION OF A DRIP EDGE SHOULD BE COMPUTED TO MAINTAIN STORAGE CAPACITY WITHIN 2/3 OF THE DESIGN VOLUME AND 72-IMPUR EXPLITRATION BATE UNITY. TROUGH WALLS SHOULD BE EXCAVATED TO EXPOSE CLEAN SOIL UPON FAILURE, AND THE SOIL SCANSION OF PRORT OF REFLECTIVE OF CLEAN STONE. STONE DRIP EDGE SECTION NOT TO SCALE

PIPE INLET PROTECTION SPECIFICATIONS

SEDIMINI BARRIERS SHOULD BE INSTALLED PRORTIO ANY SOR, DISTARBANCE OF THE CONTRIBUTING DRAMACE AREA ABOVE THEM.

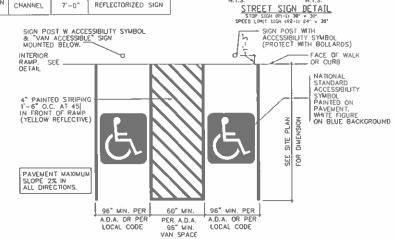
AREA ABOVE THEM.

BEACES SHOULD BE PLACED IN A SINGLE ROW, LIDHSTHINSE ON THE CONTOUR, WITH LINES OF AGAACENT BALES THORSE A ANOTHER THE UNIOS OF THE BARRIER SHOULD BE FLARED UP SLOTE.

BANGER'S SHOULD BE DIRECTIONED MOST THAN OWE BALE AREA SHOULD BE RESTAULD SO THAT BRIGHOUS ALL BALES SHOULD BE DIRECTIONED AND OF STREET CELL BALES SHOULD BE DIRECTIONED AND THE BRIGHOSS ALL BALES SHOULD BE DIRECTIONED AND STREET TO THE ORGAND SINSLE TO PREVIOUS DETERMINATION OF THE BRIGHOSS.

AND DESCRIPTION AND UND THE SDES, PARALLEL TO THE ORGAND SUPFACE TO PREVENT DETERORATION OF THE MODIFICATION OF THE MODIFICATION AND UNDERSTANDING THE MODIFICATION AND CHARLES AND STREAM OF MELLOW AND OWN OF THE ANABORY. BACKSTALL SOLL SHOULD CONTROL THE BANDRER BACKSTALL SOLL SHOULD CONTROL TO THE MODIFICATION OF THE MODIFI

TRA	FEL	С	C	ONTRO		SCH	EDULE
SIGN NUMBER	SIGN		if sign Height	DESCRIPTION	MOUNT TYPE	MOUNT HEIGHT	REMARKS
R1 – 1	Stop	30"	30"	WHITE ON RED	CHANNEL	7"-0"	REFLECTORIZED SIGN
R2-1	9PEED USH 1 25	18"	24"	BLACK ON WHITE	CHANNEL	7'-0"	REFLECTORIZED SIGN
87-8	8	12"	18"	BLUE & GREEN	CHANNEL	7'-0"	REFLECTORIZED SIGN



PREPARED FOR

BEALS

GRADE .

CONCRETE

POST

N.T.S.

THE THIBODEAU FAMILY REV. TRUST

PAUL F & LINDA A THIBODEAU TRUSTEES

76 YOUNG ROAD BARRINGTON, NH 03825

70 PORTSMOUTH AVE,

THIRD FLOOR, SUITE 2

STRATHAM, N.H. 03885

PHONE: 603-583-4860.

FAX. 603-583-4863

(CALVANIZED)

1 1/4"

3 1/2° POST SECTION

NUT AND LOCK WASHER

PARKING STALL FOR THE PHYSICALLY CHALLENGED NOT TO SCALE



RECEIVED

FEB 0 2 2023

NHDOT DISTRICT 6

REVISED PER ENGINEERING REVIEW REVISIONS:	10/21/2

CONSTRUCTION DETAILS

FOR: MIXED-USE DEVELOPMENT ROUTE 9 BARRINGTON, NH

- 1						
	DATE	AUG . 2022	SCALE:	N/A	Т	
	PROJ NO:	NH-1387	SHEET NO.	5		

STONE LEVEL SPREADER UP SE	SEED FILTER MEDIA WITH SEE DIMX "" SHOWN ON SHEET 7 DATA (NOTE, ONLY POND 1 HAS A SEDIMENT FOREBAY) MILL HITHINITIAL HITHINI	RIPRAP WEIR UP ELEV 4' MIN. BERM 31 MAX. 5 DPE 6' MIN. BEPESSION 16' FILTER MEDIA. MIXTUR. 20% COMPOST-FINELY SHREDBED BARK DR VODD MULCH 12/45% PASSIN. THE BEI SCHUE, 30% LOBANY 1078-2011., 50% SANIS SOIL (SAND PORTION SMALL BE ASTM 203 FINE AGREGATE)
L SCARIFY SIDES AND BOTTOM OF BIDRETENTION AREA TO FACILITATE NATURAL INFILTRATION RATES 2. POIND SURFACE TO BE FINISHED WITH 4' LOAM & SEED	BIORETENTION POND PROFILE DETAIL	

NOT TO SCALE

CISTERN SPECIFICATIONS

- 1 THE CISTERN SHALL BE DESIGNED TO BE TROUBLE FREE, AND IT SHALL BE DESIGNED TO LAST 50 YEARS.
- 2. THE MINIMUM CAPACITY SHALL BE 10,000 GALLONS. DEPENDING ON THE DEVELOPMENT LAYOUT/CONFIGURATION, ADDITIONAL GALLON REQUIREMENTS MAY BE IMPOSED AT THE DISCRETION OF THE FIRE CHIEF. ALL EXCEPTIONS, ADDITIONS, OR DELETIONS WILL BE IN WRITING.
- THE SUCTION CAPACITY SHALL BE CAPABLE OF DELIVERING 1,000 GALLONS PER MINUTE (GPM) FOR THREE-QUATERS OF THE DISTERN CAPACITY.
- 4. THE ENTIRE CISTERN AND APPURTENANCES SHALL BE RATED FOR HS-20 HIGHWAY
- 5. DRAWINGS OF THE DESIGN ARE FOR ESTIMATING GENERAL REQUIREMENT AND DESIGN
- PURPOSES ONLY AND ARE NOT INTENDED FOR USE AS DESIGN.

 5. EACH DISTERN SHALL BE DESIGNED, SITED TO THE PARTICULAR LOCATION, STAMPED
- BY A REGISTERED ENGINEER, AND APPROVED BY THE FIRE CHIEF.

 7. ALL SUCTION AND FILL PIPING SHALL BE AMERICAN SOCIETY FOR TESTING MATERIALS. (ASTM) SCHEDULE 40 STEEL ALL VENT PIPING SHALL BE ASTM SCHEDULE 40 STEEL WITH WELDED JOINTS, ALL PIPING LOCATED WITHIN THE TANK SHALL BE ASTM SCHEDULE 40 STEEL WITH WELDED JOINTS, ALL PIPING LEADING FROM THE TANK TO
- THE HYDRANT SHALL BE ASTM SCHEDULE 40 STEEL.

 8. THE FINAL SUCTION CONNECTION SHALL BE FIVE INCH PUMPER NOZZLE WITH A CAP. THE SUCTION PIPE SHALL BE BRACED TO ENSURE DURABILITY DURING PUMPING OPERATIONS. THE FIRE CHIEF SHALL APPROVE BRACE CONFIGURATION AND INSTALLATION. THE SUCTION PIPE CONNECTION SHALL BE TWENTY-FOUR INCHES ABOVE THE LEVEL OF THE VEHICLE PAO WHERE VEHICLE WHEELS WILL BE LOCATED WHEN THE CISTERN IS IN USE
- 9. THE FILLER CONNECTION SHALL BE INTALLED INTO THE EIGHT INCH VENT WITH 4" MALE STEEL STORZ FITTING. THIS FITTING SHALL BE 24" ABOVE FINISH GRADE AND FACE THE ROAD. A THIRTY-TWO INCH DIAMETER MANHOLE WITH COVER WILL BE LOCATED ON TOP OF THE CISTERN, THE CONFIGURATION OF THIS MANHOLE SHALL ALLOW THE UNIT TO BE SECURED WITH TWO PADLOCKS AND SHALL BE APPROVED BY THE FIRE CHIEF. THE PADLOCKS WILL BE SUPPLIED BY THE FIRE DEPARTMENT. THE DISTANCE FROM THE BOTTOM OF THE SUCTION PIPE TO THE PUMPER
- CONNECTION SHALL NOT EXCEED FOURTEEN FEET VERTICAL.

 11. ALL HORIZONTAL SUCTION PIPING SHALL SLOPE SLIGHTLY UPHILL TOWARD THE
- PUMPER CONNECTION-
- 12 BEDDING FOR THE CISTERN SHALL CONSIST OF A MINIMUM OF TWELVE INCHES OF 3/4" TO 1 1/2" WASHED PEA STONE, COMPACTED. NO FILL SHALL BE USED UNDER THE STONE OVER EXCAVATION SHALL BE FILLED WITH THE SAME STONE BEDDING MATERIAL
- 13. ALL BACKFILL MATERIALS SHALL BE SCREENED GRAVEL WITH NO STONES LARGER THAN SIX INCHES AND SHALL BE COMPACTED TO 95 PERCENT OF 1TS ORIGINAL VOLUME IN ACCORDANCE WITH ASTM D 1557. 16. THE TOP OF CISTERN SHALL BE INSULATED WITH VERMIN RESISTANT FOAM INSULATION AND TWO FEET OF BACKFILL WITH A MINIMUM WEIGHT OF 120 PCF, COMPACTED, FOAM USED FOR THIS INSTALLATION SHALL BE CLOSED CELL POLYURETHANE FOAM WITH AN INSULATION FACTOR OF R=5 PER INCH. ALL BACKFILL SHALL EXTEND TEN FEET BEYOND THE EDGE OF THE VEHICLE PAD AND THEN HAVE A MAXIMUM OF 3:1 SLOPE, LOAM AND
- 14. BEFORE ANY BACKFILLING IS DONE THE ENTIRE CISTERN SHALL BE COMPLETED AND INSPECTED BY THE FIRE CHIEF.

 15. AFTER BACKFILLING, BOLLARDS OR LARGE STONES SHALL BE PLACED TO PROTECT
- THE TANK AND APPURTENANCES.
- 16. THE PITCH OF THE SHOULDER AND VEHICLE PAD FROM THE EDGE OF THE PAVEMENT TO THE PUMPER SUCTION CONNECTION SHALL BE ONE PERCENT TO THREE PERCENT DOWNGRADE.
- 17 THE SHOULDER AND VEHICLE PAD SHALL BE OF A SUFFICIENT LENGTH TO ALLOW CONVENIENT ACCESS TO THE SUCTION CONNECTION WHEN THE PUMPER IS SET AT 45 DEGREES TO THE ROAD, THE SHOULDER AND VEHICLE PAD SECTION SHALL CONSIST OF 3" BITUMINOUS PAVING, REFER TO SITE PLAN FOR REQUIREMENTS.
- 18. THE SUCTION FITTING SHALL BE LOCATED BETWEEN 22 AND 24 FEET FROM THE NEAREST RUNNING EDGE OF ROAD PAVEMENT. TWO CONCRETE FILLED STEEL BOLLARDS SHALL BE PLACED IN A MANNER TO PROTECT THE HYDRANT. THE BASE OF THESE BOLLARDS SHALL EXTEND BELOW THE FROST LINE. THE UPPER PORTION OF THE BOLLARDS SHALL EXTEND THIRTY SIX INCHES ABOVE THE LEVEL OF THE VEHICLE PAD WHERE VEHICLE WHEELS WILL BE LOCATED WHEN THE CISTERN IS IN
- WITH PROPER CONSTRUCTION PRACTICES AND SHALL BE IN ACCORDANC WITH PROPER CONSTRUCTION PRACTICES AND SHALL BE ACCEPTABLE TO THE FIRE CHIEF. 19. ALL CONSTRUCTION, BACKFILL, AND GRADING MATERIALS SHALL BE IN ACCORDANCE
- 20. THE FIRE CHIEF (OR REPRESENTATIVE) AND THE ENGINEER'S INSPECTOR WILL BE NOTIFIED BY THE CONTRACTOR TO OBSERVE THE FOLLOWING POINTS OF INSTALLATION: A EXCAVATION COMPLETE.
- B. CRUSHED STONE INSTALLED AND COMPACTED
- C. BACKFILLING COMPLETE PRIOR TO PLACEMENT OF INSULATION.
- D. PLACEMENT OF INSULATION.
 E. START AND FINISH OF LEAKAGE TEST.
- F. PIPING MANWAYS AND BOLLARDS IN PLACE AND PAINTED
- ALL BACKFILLING LOAM, SEED, ETC. COMPLETE WITH TURNOUT PLACE AND GRADED.
- PLACE AND GRADED.

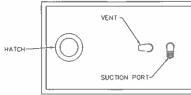
 H. PAVEMENT COMPLETE, AND ALL OTHER WORK 100% COMPLETE.

 21. THE FIRE CHIEF SHALL BE NOTIFIED OF THE DATE THAT SITE WORK IS TO BEGIN.

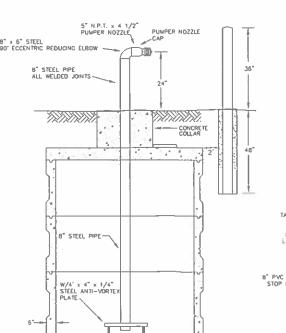
 22. ANY EXCEPTION, ADDITIONS, OR DELETIONS ARE DATED AND NOTED BELOW:

 23. CONCRETE MUST HAVE A MINIMUM OF 150 PCF.

 24. STONE AND GRAVEL BACKFILL MUST HAVE A MINIMUM OF 120 PCF.



CISTERN DETAILS





CISTERN PLAN

THE THIBODEAU FAMILY REV. TRUST PAUL F. & LINDA A THIBODEAU TRUSTEES 76 YOUNG ROAD BARRINGTON, NII 03825

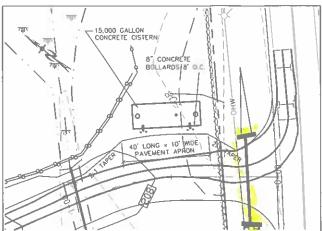


70 PORTSMOUTH AVE, THIRD FLOOR, SUITE 2 STRATHAM, N.H. 03885 PHONE: 603,583,4860 FAX. 603-583-4863

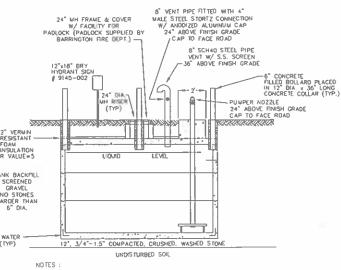
RECEIVED

FEB 0 2 2023

NHDOT DISTRICT 6

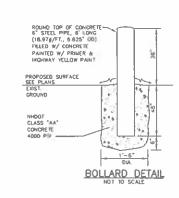






1.) 15,000 GAL, CONCRETE TANK AVAILABLE AT WILLIAM IN LAMARRE CONCRETE PRODUCTS, INC. OR EQUIV

- 2.) HYDRANT STRUCTURE AVAILABLE FROM GOULD SUPPLY OR EQUIV. 1) THE INSTALLER IS RESPONSIBLE FOR FILLING THE TANKS AFTER INSTALLATION
- 4.) TANK CAPACITY: 10' x 29' x 8' = 2,320 CLFL x 7.48 = 17,353 GALS.
 5.) SEE TOWN OF BARRINGTON FIRE PROTECTION CISTERN SPECIFICATIONS (40 PARAGRAPH USTING)



F-16-1	
REVISED PER FIRE DEPT, REVIEW	10/21/22
REVISIONS:	DATE

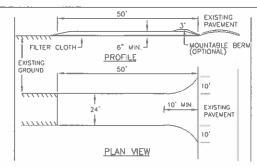
CISTERN DETAIL SHEET

PROJ NO: NH-1387

MIXED-USE DEVELOPMENT ROUTE 9 BARRINGTON, NH AUG., 2022 SCALE NONE

SHEET NO.

1	2
	2/



STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH STONE, RECLAYED STONE, OR

1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH STONE, RECLAVIED STONE, OR RECECUED CONCRETE EQUIVALENT.

2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.

3. THE THICKNESS OF THE STONE FOR THE STRANDLED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.

4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE, FILTER CLOTH IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENCE LOT.

5. ALL SURFACE WATER THAT IS FLOWING TO OR INVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPEO BENEATH THE ENTRANCE. IF PIPHO IS IMPRACTICAL, A BERN WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.

7. THE ENTRANCE SHALL BE MANTAINEO IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUTLOF ANY MEASURES USE OF TO TRAP SCOMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOYED PROMPTLY.

STABILIZED CONSTRUCTION ENTRANCE

TEMPORARY EROSION CONTROL MEASURES

1. THE SWALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT NO MORE THAN 5 ACRES OF LAND SHALL BE EXPOSED BEFORE DISTURBED AREAS ARE STABILIZED.

PERMITTER CONTROLS MUST BE INSTALLED PRIOR TO EARTH MOVING CPERATIONS

- PERMITE CONTROLS MIST BE INSTALLED PRIOR TO CARTH MOVING CYLLATION).

RUNOFF MIST BE DIRECTED TO TEMPORARY PRACTICES LIVITLISTORMWATER BUPS ARE STAS LIZED.

STORMWATER PORES, INCLIGATION BASINS AND SWALLS MUST BE STABULIZED PRIOR TO DIRECTIVES TUNDED TO THEW.

STORMWATER PORES, INCLIGATION BASINS AND SWALLS MUST BE STABULIZED PRIOR TO DIRECTIVES TUNDED TO THEW.

RUND ON TO CONTOL PRACTICES ARE TOB BENEVILED VALIGATION OF ACHIEVAGE PRIOR TO DIRECTIVES AND THE PRIOR TO THE PROPERTY OF THE PRIOR TO THE PRIOR OF THE PRIOR TO THE PRIOR THE PRIOR TO THE PRIOR TO

ROADWAYS AND PARKING AREAS MUST BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADI

2. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS

REQUIRED OR DIRECTED BY THE ENGINEER ALL DISTURBED MAKES SHALL BE RETURNED TO GRIGAML CANDES AND ELEVATIONS.

3. DISTURBED AREAS SHALL BE LOAMED WITH A MINIMUM OF 4" OF LOAM AND SEEDED WITH NOT LESS THAN 1:10 POUNDS OF SEED PER 1000 SQUARE FEET OF AREA (48 POUNDS PER ACRE) SEE SEED SPECIFICATIONS THIS SHEET.

S. SILT FENCES AND OTHER EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY RAIN EVENT GREATER THAN 0.5" DURING THE LIFE OF THE PROJECT, ALL DAMAGED AREAS SHALL BE REPAIRED, SEDIMENT DEPOSITS SHALL PERIODICALLY

BE REMOVED AND DISPOSED OF.

5. ATTER ALL DISTURBED AREA HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VECETATED.

6. AREAS MUST BE SEEDED AND MULTICHED WITHIN 3 DAYS OF FINAL CRADINC, PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL CRADING, OR TEMPORARY STABILIZED WITHIN 30 DAYS OF WITHAL DISTURBANCE OF SOIL.

7. AM AREA SMALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:

18. ANSAS TO BE FAVID, BAY COMEST GRAVITI METTING "HE FIGUR MINISTS OF MINOS" STAADAGAT FOR BOAD AND BRIDGE

CONSTRUCTION, 2016, ITEM 304.2 HAVE BEEN INSTALLED.

- A VINIMUM OF BS% VEGETATED GROWTH HAS BEEN ESTABLISHED. A UNINOUN OF 3 MORES OF NON-EROSME MATERIA SUCH AS RIPRAP HAS BEEN INSTALLED.
 ROSSON CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

CONSTRUCTION SPECIFICATIONS.

STRUCTURES SHALL BE INSTALLED ACCORDING TO THE DIMENSIONS SHOWN ON THE PLANS AT THE APPROPRIATE SPACING.

2. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER SO THAT EROSION AND AIR AND WATER POLLUTION WILL BE MINIMIZED.

3. WHEN THINDER STRUCTURES ARE USED, THE TIMBER SHALL EXTEND AT LEAST 18" INTO THE SOIL.

4. STRAW BALES SHALL BE ANCHORED INTO THE SOIL USING 2" X 2" STAKES DRIVEN THROUGH THE BALES.

AND AT LEAST 18 INCHES IN TO THE SOIL.

5. SEEDING, FERTILIZING, AND MULCHING SHALL CONFORM TO THE RECOMMENDATIONS. IN THE APPROPRIATED.

VECETATIVE BMP.

6. STRUCTURES SHALL BE REMOVED FROM THE CHANNEL WHEN THEIR USEFUL LIFE HAS BEEN COMPLETED.

7. THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL TAKE PRECAUTIONS AND INSTRUCTIONS FROM THE PLANNING OEPARTHENT IN ORDER TO PREVENT, ADAIE AND CONTROL THE EMISSION OF FUGITIVE DUST INCLUDING BUT NOT LIMITED TO WETTING, COVERING, SHIELDING, OR VACUUMING. B. THE NH COMMISSIONER OF AGRICULTURE PROHIBITS THE COLLECTION, POSSESSION, IMPORTATION, TRANSPORTATION, SALE, PROPAGATION, TRANSPLANTATION, OR CULTIVATION OF PLANTS BANNED BY NH

LAW RSA 430:53 AND NH CODE ADMINISTRATIVE RULES AGR. 3800, THE PROJECT SHALL MEET ALL

REQUIREMENTS AND THE INTENT OF . RSA 430:53 AND ACR 3800 RELATIVE TO INVASIVE SPECIES IN THE EVENT THAT GREATER THAN ONE ACRE OF CONTIGUOUS DISTURBANCE OCCURS, THE CONSTRUCTION SITE OPERATOR AND OWNER SHALL SUBMIT A NOTICE OF INTENT (NOI) TO USEPA. WASHINGTON, DC, STORMWATER NOTICE PROCESSING CENTER AT LEAST FOURTEEN DAYS PRIOR TO COMMENCEMENT OF WORK ON SITE. EPA WILL POST THE NOT AT http://cfpubl.epa.gov/npdes/stormwater/noi/noisearch.cfm. AUTHORIZATION IS GRANTED UNDER THE

PERMIT ONCE THE NOU IS SHOWN IN "ACTIVE STATUS".

CONSTRUCTION SEQUENCE.

CONSTRUCTION SEQUENCE

1. CUT AND REMOVE TREES IN CONSTRUCTION AREAS AS REQUIRED OR DIRECTED.

2. CONSTRUCT AND/OR INSTALL TEMPORARY AND PERMANENT SEDIMENT EROSION AND DETENTION CONTROL FACILITIES AS REQUIRED. EROSION, SEDIMENT AND DETENTION CONTROL FACILITIES SHALL BE INSTALLED AND STABILIZED PRIOR TO ANY EARTH MOVING OPERATION AND PEROR TO DIRECTING RUNDFT TO THEM.

3. CLEAR, CUT, GRUB AND DISPOSED OF DERRIS IN A PPROVED FACILITIES, STUMPS AND DEBRIS ARE TO BE REMOVED FROM SITE AND DISPOSED OF PER STATE AND LOCAL REGULATIONS.

4. EXCAVARY AND STOCKPHILE TOPSOL /LOAM, ALL AREAS SHALL BE STABILIZED IMMEDIATELY AFTER GRADING.

5. CONSTRUCT THE RODARY CULVERTS AS REQUIRED OF DIRECTED.

6. CONSTRUCT THE RODARY AND ASSOCIATED DRAINAGE STRUCTURES. ALL ROADWAYS, AND CUT/FILL SLOPES SHALL BE STABILIZED AND/OR LOAMED AND SECDED WITHIN 72-HOURS OF ACHIEVING THISH GRADE AS APPLICABLE.

7. INSTALL PIPE AND CONSTRUCTION ASSOCIATED APPURTENANCES AS REQUIRED OR DIRECTED. ALL DISTURBED AREAS SHALL STABILIZED IMMEDIATELY AFTER GRADING.

8. BEGIN PERMANENT AND TEMPORARY SECONG AND MULCHING. ALL CUT AND FILL SLOPES AND DISTURBED AREAS SHALL BE SECOED OR MULCHED AS REQUIRED, OR DIRECTED.

9. DAILY OR AS REQUIRED. CONSTRUCTION TO PREVENT ANY SILTATION OF ABUTTING WATERS OR PROPERTY.

10. INSPECIE AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.

11. COMPLETE PERMANENT SEEDING AND LANDSCAPING

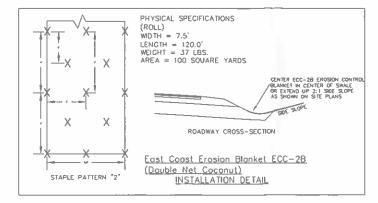
12. REMOVE TEMPORARY REGISION CONTINGU MEASURES DURING CONSTRUCTION.

13. ALL SWALES AND DRAINAGE STRUCTURES WILL BE CONSTRUCTED AND STREILIFED PRIOR TO HAVING RUNDFF DIRECTED. TO THEM.

DIRECTED TO THEM.

14. FINISH PAYING ALL ROADWAYS.

15. LOT DISTURBANCE OTHER THAN THAT SHOWN ON THE APPROVED PLANS SHALL NOT COMMENCE UNTIL THE RDADWAY HAS THE CRUSHED STONE COURSE TO DESIGN ELEVATION/REQUIRED COMPACTION AND THE ASSOCIATED DRAINAGE IS COMPLETE AND STABLE.



WINTER MAINTENANCE

1. ALL DISTURBED AREAS THAT DO NOT HAVE AT LEAST 85% VEGETATIVE COVERAGE PRIOR TO OCTOBER 15TH, SHALL BE STABIUZED BY APPLYING MULCH AT A RATE OF 3-4 TONS PER ACRE. ALL SIDE SLOPES, STEEPER THAN 4:1, THAT ARE NOT DIRECTED TO SWALES OR DETENTION BASINS, SHALL BE LINCD WITH BRODEGARDABLE/PHOTODEGARDABLE "JUTE MATTING" (EXCELSIOR'S CURLEX 11 OR EQUAL). ALL OTHER SLOPES SHALL BE WILCHED AND TACKED AT A RATE OF 3-4 TONS PER ACRE. THE APPLICATION OF MULCH MID/OR JUTE MATTING SHALL NOT OCCUR OVER EXISTING SNOW COVER. IF THE SITE IS ACTIVE ATTER NOVEMBER 15TH, ANY SNOW THAT ACCUMULATES ON DISTURBED AREAS SHALL BE CRAMVED. PRIOR TO SPRING THAW ALL AREAS WILL BE STABILIZED, AS DIRECTED ABOVE.

2. ALL SWALES THAT DO NOT HAVE FULLY ESTABLISHED VEGETATION SHALL BE EITHER LINED WITH TEMPORARY JUTE MATTING OR TEMPORARY STONE CHECK DAMS (APPROPRIATELY SPACED). STONE CHECK DAMS WILL BE MAINTAINED THROUGHOUT THE WINTER MOINTES. IF THE SWALES ARE TO BE MAINTED WITH PERMANENT LINERS OR RIPRAP WITH ENGINEERING FABRIC, THIS SHALL BE COMPLETED PRIOR TO WINTER SHUTDOWN OR AS SOON AS THEY ARE PROPERLY.

. PRIOR TO OCT. 15TH ALL ROADWAY AND PARKING AREAS SHALL BE BROUGHT UP TO AND THROUGH THE BANK RUN 3. PRIOR TO QCI. TSHE ALL RODWAY AND PARKING AREAS SHALL BE ENGUGHT OP TO AND THROUGH THE DAYN RUN GRAVEL APPLICATION. IF THESE AREAS' ELEVATIONS ARE PROPOSED TO REMAIN BELOW THE PROPOSED SUBGRADE ELEVATION, THE SUBGRADE MATERIAL SHALL BE ROUGHLY CROWNED AND A 3" LAYER OF CRUSHED GRAVEL SHALL BE PLACED AND COMPACTED. THIS WILL ALLOW THE SUBGRADE TO SHED RUNDOF AND WILL REDUCE ROADWAY FROSION. THIS CRUSHED GRAVEL DOES NOT HAVE TO CONFORM TO NH DOT 304.3, BUT SHALL HAVE BETWEEN 15-25% PASSING THE #200 SIEVE AND THE LARGEST STONE SIZE SHALL BE 2". IF THE SITE IS ACTIVE AFTER NOVEMBER 15TH, ANY ACCUMULATED SNOW SHALL BE REMOVED FROM ALL ROADWAY AND PARKING AREAS.

AFTER OCTOBER 15TH, THE END OF NEW HAMPSHIRE'S AVERAGE CROWING SEASON, NO ADDITIONAL LOAM SHALL BE As AFTER OCCUBER THE NO. OF NEW PARMSHIRES AVERAGE GROWING SEASON, NO ADMINISTRATION STALL BE SPECAD ON SIDE SLOPES AND SWALES. THE STOCKPILES THAT WILL BE LEFT UNDISTURBED UNTIL SPRING SHALL BE SEEDED BY THIS DATE. AFTER OCTOBER 15TH, ANY NEW OR DISTURBED PILES SHALL BE MULCHED AT A RATE OF 3-4 TONS PER ARCE. ALL STOCKPILES THAT WILL REAMAN THAROUGHOUT THE WINTER SHALL BE REPOUNDED WITH SIT.

SEEDING SPECIFICATIONS

1. GRADING AND SHAPING

A. SLOPES SHALL NOT BE STEEPER THAN 2:1.3.1 SLOPES OR FLATTER ARE PREFERRED, WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED. 2. SEEDBED PREPARATION

SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.

KILLING OF THE PLANTS.

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 MIX FERTILIZER AND LIME INTO THE SOIL, THE SEEDBED SHOULD BE LEFT IN REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL

3. ESTABLISHING A STAND LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL 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, 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(P205), 100 LBS PER ACRE OR 2, 2 LBS PER 1,000 SOFT.

POTASH(K20), 100 LBS PER ACRE OR 2 Z 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 WETHOD 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.

REFER TO TABLE(G=E1 THIS SHEET) FOR APPROPRIATE SEED MIXTURES AND TABLE(H=E1 THIS SHEET) FOR RATES OF SEEDING. ALL LEGUMES (CROWN VETCH, BIRDS FOOT TREFOIL, AND FLAT PEA) MUST BE INOCULATED WITH THEIR SPECIFIC INOCULANT.

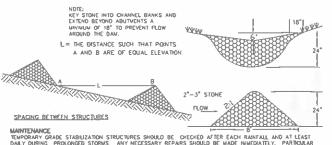
D. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS WAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 1

A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPUED IMMEDIATELY AFTER SEEDING. 8. 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 SO. FT.

MAINTENANCE TO ESTABLISH A STAND

A. PLANTED AREA 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 PERENNIAL STAKE 2 TO 3 YEARS TO BECOME ESTABLISHED.

C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, OCCASIONAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.



MAINTENANCE

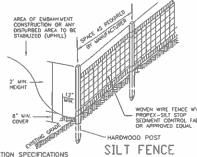
TEUPORARY CRADE STABILIZATION STRUCTURES SHOULD BE CHECKED AFTER EACH RAWHALL AND AT LEAST DALY DURING PROJOCINEED STORMS. ANY NECESSARY REPAIRS SHOULD BE WADE INMEDIATELY. PARTICULAR ATTENDED SHOULD BE COVER TO BE DIE STRUCTURES. ARE REMOVED, THE DISTURBED PORTION SHOULD BE BROUGHT TO THE EXISTING CHANNEL CRADE AND THE PART ARE SEPPARTO. SEEDED AND MULCHED. WHILE THIS PRACTICE IS NOT INTENDED TO BE SEDMENT TRAPPING, SOME SEDMENT WILL ACCUMULATE BEHIND THE STRUCTURES. SEDMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURES WHEN IT HAS ACCUMULATED TO ONE HALF OF THE GRIGNAL HEIGHT OF THE STRUCTURE.

THE UNIGHNAL PROMISE OF THE STRUCTURES TRUCTURES SHALL BE REMOVED WITH SPECIAL CARE AS TO AVOID DISTURBING ANY UNDERLYING EROSION CONTROL FABRIC AND/OR EXISTING VEGETATION TEMPORARY STONE CHECK DAM

RECEIVED

FEB 0 2 2023

NHDOT DISTRICT 6



CONSTRUCTION SPECIFICATIONS . WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES AND FILTER CLOTH SHALL BE FASTERED TO WOVEN WIRE EVERY 24-7 AT TOP MID AND BOTTOM SECTIONS AND BE EMBEDDED INTO GROUND A MINIMUM OF 8°. 2. THE FENC POSTS SHALL BE A MINIMUM 48° LONG, SPACED A MAXIMUM 10° APART, AND DRIVEN A

MINIMUM OF 16" INTO THE GROUND

3. WHEN TWO SECTIONS OF FILER CLOTH ADJOIN EACH OTHER, THE ENDS OF THE FABRIC
SHALL BE GWERLAPPED BY SIX INCHES, FOLDED AND STAPLED TO PREVENT SEDMENT FROM

BY-PASSING.

4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE AND PROPERLY DISPOSED OF.

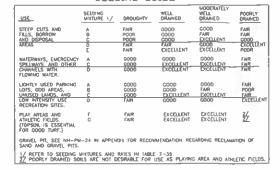
5. PLACE THE ENDS OF THE SILT FENCE UP CONTOUR TO PROVIDE FOR SEDIMENT STORAGE, 6. SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED AS DIRECTED BY THE ENGINEER. THE AREA DISTURBED BY THE REMOVAL SHALL BE SMOOTHED AND RE-VEGETATED

SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE.

DALY DURING PROJUNCED MAINFALL ANY REPAIRS THAT ARE REQUIRED SHALL BE WAVE 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.



NOTE: TEMPORARY SEED MIX FOR STABILIZATION OF TUR SHALL BE VINTER RYE OR DATS AT A RATE OF 25 LBS. PER 1000 S.F. AND SHALL BE PLACED PRIOR TO OCT. 15, IF PERMANENT SEEDING NOT YET COMPLETE.

PREPARED FOR-

THE THIBODEAU FAMILY REV. TRUST PAUL F. & LINDA A THIBODEAU TRUSTEES 76 YOUNG ROAD BARRINGTON NH 03825



70 PORTSMOUTH AVE. THIRD FLOOR, SUITE 2 STRATHAM, N.H. 03885 PHONE: 603-583-4860, FAX. 603-583-4863



Control Mix Berr

Mix material should consist of 30–50% large (1–3") particles. The organic matter content should be 25%–65%, dry weight bosis. The organic matter may originate from a variety of vegetative sources, but needs to be fibrous and elongated. The mix shall be free of sitt clay, fine sond, refuse and contaminants or any material toxic to plant growth. Erosion Control Mix berms are effective filters for overland flow conditions and should not be used to filter concentrated flow such as that found in drainage ditchs, streams, etc. Mix material should consist of 30-50%

Erosion Control Mix Berm

SEEDING RATES

	MOCTURE	POUNOS PER ACRE	POUNDS PER 1,000 Sq. FL
-	A TALL FESCUE CREEPING RED FESCUE RED TOP TOTAL	20 20 2 42	0.45 0.45 0.05 0.95
	8. TALL FESCUE CREEPING RED FESCUE CROWN VETCH OR	15 10 15	0.35 0.25 0.35
	FLAT PEA TOTAL	30 40 OR 55	0.75 0.95 OR 1.35
*	C TALL FESCUE CREEPING RED FESCUE BIRDS FOOT TREFOIL TOTAL	20 20 8 48	0.45 0.45 0.20 1.10
	6. TALL FESCUE FLAT PEA TOTAL	20 30 50	0.45 0.75 1.20
1	E. CREEPING RED FESCUE 1/ HENTUCKY BLUEGRASS 1/ TOTAL	50 50 100	1.15 1.15 2.30
	F TALL FESCUE 1	150	3.60
	1/ FOR HEAVY USE ATHLETIC FIE NEW HAMPSHIRE COOPERATIVE EXCURRENT VARIETIES AND SEEDING	ITENSION TURF 5	E UNIVERSITY OF PEDIALIST FOR

REVISED PER ENGINEERING REVIEW	10/21/22
REVISIONS:	DATE:

EROSION & SEDIMENTATION

MIXED-USE DEVELOPMENT ROUTI 9 BARRINGTON, NH

Ī	DATE;	AUG , 2022	SCALE:	NONE
	PROJ. NO:	NH-1387	SHEET NO.	7



