



City of Keene, New Hampshire

AGENDA

CONSERVATION COMMISSION

Monday, August 20, 2018

3:30 PM

**City Hall
2nd Floor Conference Room**

Commission Members

Thomas P. Haynes, Chair
Andrew Madison, Vice Chair
Eloise Clark
Denise Burchsted
Councilor George Hansel

Brian Reilly
Alexander Von Plinsky, IV
Art Walker, Alternate
Kenneth Bergman, Alternate

3:30 PM Site Visit –Woodland Cemetery, Chapel Drive

4:30 PM Meeting

1. Call to Order
2. Approval of Meeting Minutes – June 18, 2018
3. Wetland Permit By Notification (PBN) - Woodland Cemetery, Chapel Drive
4. Conservation Land Purchase Request – Beauregard, Chapman Road /Beech Hill Parcel
5. Donation Requests:
 - a) Ashuelot River Local Advisory Committee (ARLAC)
 - b) Monadnock Conservancy – Conservation Easement Fees for 105 Daniels Hill Road property
6. Updates/Status:
 - a. Dillant-Hopkins Airport Wetland – Construction Water Pumping
 - b. Public Visitation of City Reservoir Properties
 - c. Aquatic Resource Management Subcommittee Priority Projects
 - d. Land Prioritization Criteria Subcommittee – CSI Project
 - e. Commission Functions/Roles – George
 - f. West Street Hydro, Inc. – Cancellation of Hydropower Project at West Street Dam – acceptance by Keene City Council
 - g. Keene Scenic Roads Policy to NH Assoc. of Conservation Commissions
7. Informational Communications
 - a) ARLAC – 7/30 Public Utilities Commission/Liberty Utilities Request Letter
 - b) Goose Pond Dam Improvements – Shoreland Permit Notice – Vernal Pool, ARLAC Comments
8. New or Other Business
9. Adjournment - Next meeting date Monday, September 17, 2018

City of Keene
New Hampshire

CONSERVATION COMMISSION
MEETING MINUTES

Monday, June 18, 2018

4:30 PM

2nd Floor Conference Room,
City Hall

Members Present:

Thomas P. Haynes, Chair
Andrew Madison, Vice Chair (Arrived
Late)
Councilor George Hansel
Brian Reilly
Alexander Von Plinsky IV
Eloise Clark
Art Walker, Alternate
Kenneth Bergman, Alternate

Staff Present:

Michele Chalice, Planner

Members Not Present:

Denise Burchsted

1) **Call to Order**

Chair Haynes called the meeting to order at 4:31 PM.

2) **Minutes – April 16, 2018 & May 21, 2018**

Councilor Hansel made a motion to accept the minutes of April 16, 2018, which was seconded by Mr. Walker. Mr. Reilly noted Chair Haynes' name was misspelled throughout the minutes and should be corrected. The motion to accept the minutes of April 16, 2018 as amended carried unanimously.

Councilor Hansel made a motion to accept the minutes of May 21, 2018, which was seconded by Mr. Reilly and carried unanimously.

3) **Communication & Notifications** – None at this meeting

4) **Updates**

- a. **Request for City's Top 10 ARM Priority Projects RE. Signal Mast Arm Sign Structures Project on NH Rt. 101/12/9 – NHDOT**

Chair Haynes noted he, Ms. Burchsted, and Mr. Von Plinsky met a few times; he invited Mr. Von Plinsky to speak about their conclusions regarding the top 10 list.

Mr. Von Plinsky noted he also met with Ms. Chalice and the City Engineer. Through these meetings, the sub-committee came to the conclusion that they do not have enough expertise to create a short-term top 10 list. The City Engineer is looking for project details on specific culverts and streets that the Commission cannot specify. Still, he said this is an opportunity for the Commission to act in an advisory role for medium to long-term projects in the CIP. The ARM subcommittee could be repurposed as an ecological services subcommittee to act as an “intern” to the City. The subcommittee could investigate ARM funding opportunities for projects already in the CIP, like the Victoria Street project. The subcommittee could also investigate how other cities have done similar projects in more eco-conscious ways. The City Engineer is interested in a subcommittee effort like this because he and his staff do not have time for such research. Chair Haynes agreed this is a great advisory role the Commission can be for the City.

Councilor Hansel asked if the City will submit what the Public Works Department believes are the top 10 projects to the ARM fund. Ms. Chalice replied no, but the City Engineer is willing to work with the Commission in advance to coordinate the ARM fund with CIP projects so more eco-conscious options are evaluated; she felt encouraged by his willingness. She said the Commission will need to work to understand how a project can be envisioned ahead of time to come up with a list for future CIP projects and develop financial estimates for an ARM fund application.

Ms. Clark noted the Cheshire County Conservation District funded the installation of rain gardens on a part of Court Street. She suggested rain gardens at the area in question on Winchester Street so there is some filtration through plant roots; she does not know how much funding that would require. The Ashuelot River Park Local Advisory Committee (ARLAC) sent a letter suggesting rain gardens for this project; she suggested the Commission could do the same.

Councilor Hansel said he foresees challenges doing this on a project-by-project basis. He asked if the Commission can develop higher-level concepts and fund studying them to develop best practices to be adopted by the Engineering Department. He is concerned because the City contracts out for some projects and he is unsure when there would be the time or authority to talk to a contractor regarding these concepts; Ms. Chalice agreed. Ms. Clark noted there are already best practices for hillsides and wetlands. Councilor Hansel said he was thinking more of an innovative water capture/filtration system; Ms. Clark replied that is what a rain garden is.

Chair Haynes said if the majority of members agree, they can express further interest to the City Engineer and find a way to work with him. He hopes the City Engineer can help identify possible complications and timing. Ms. Chalice will schedule another meeting with the City Engineer and subcommittee to address these issues.

Mr. Reilly said he likes Councilor Hansel's idea because replacing these conduits with larger ones will solve the problem in the short-term, but history might repeat itself in other parts of town over the next 20-30 years. He said a list of best practices that the City Engineer and staff can refer to in a situation like this is better than trying to anticipate every project that might arise in the future.

Mr. Bergman asked if a project would have to be on the CIP cycle to be considered. Councilor Hansel said the CIP is a six-year plan and projects are there during that time for financing. However, the CIP is updated annually and sometimes a project is only added one to two years in advance. Mr. Von Plinsky agreed because it is a six-year plan the Commission can have a voice on a project farther in advance, to speak with staff, and to share conservation ideas for the project (like Victoria Street, which will impact wetlands and trails and is still four years out).

Councilor Hansel said the CIP is a financial planning tool, it does not mean the design of that project is occurring that entire time; it is how the City decides to spend money from the capital budget for that six year period. The execution of the engineering will come the year the project is being designed and the Commission has to find the perfect time to share their input. If there were already guidelines for a project of that type it would already be on file when staff need it. Ms. Chalice said she thought the finances in the CIP were specific and limited. She said that was her original impression from the City Engineer. Mr. Von Plinsky noted that ecological sensitive design is not always more expensive; it may cost more up front but usually saves money long-term.

Next Steps:

- Ms. Chalice will contact the ARM fund to get more information
- The Commission will review the CIP in July
- Mr. Von Plinsky will ask the City Engineer if there are other ways the Commission can help the City
- The subcommittee will meet with the City Engineer again

b. Aquatic Resource Mitigation Fund Pre-Proposal

Mr. Von Plinsky said he met with staff from the Monadnock Conservancy about Tenant Swamp. They agreed it is a project worth pursuing, but there are too many obstacles to develop a full proposal by August 31. They recommended keeping the idea in mind but not submitting the ARM proposal this summer for the Tenant Swamp easement. Ms. Chalice said that this idea would have to go through City Council, who is not familiar with this Tenant Swamp project. The most recent City ARM projects have been on the CIP so the Council had greater previous awareness about those projects and were more comfortable with them. Staff felt this project would be hard for Council to approve because they were not yet aware of it and because it is already conservation property. Now, there is time to build Council education about this project into the future proposal.

Mr. Von Plinsky asked if the City would have to approve the idea of donating an easement before the Conservancy agrees to take an easement. Councilor Hansel replied

that Council will not approve anything without a plan in place; Council could approve the donation conditionally if the Conservancy says they will take it provided the City Manager develops a memorandum of understanding with the Conservancy. Ms. Clark noted that happened for Greater Goose Pond Forest and Sterns Hill. Mr. Bergman asked if the Conservancy expressed any concerns about resources or expertise for this project. Mr. Von Plinsky replied it is a matter of priorities because they are applying for ARM funds as well and this project arose at the last minute. They are interested in the idea but it is bad timing and they might sign off in the future. Mr. Von Plinsky will stay in contact with them to try and work with them on the project at a later date.

Mr. Bergman asked how to update Council about Tenant Swamp since this is not on the CIP. Councilor Hansel suggested waiting until there is a substantive proposal to present to them or when Chair Haynes gives his presentation to Council on what the Commission is working on.

c. Greater Goose Pond Forest Stewardship Plan

Mr. Reilly attended a walk in the forest with Jeff Littleton on May 26. Mr. Littleton used the *Reading the Forested Landscape* text to educate participants on the age of various parts of the forest. He said it was a fascinating walk that 15-20 people attended. Participants were engaged; they were mostly over 50 years old. Some participants expressed gratitude to the Commission for providing this opportunity to the community.

Chair Haynes also attended a walk in the forest (also with a predominantly older group of 10-12 participants) to a set of ledges off trail. Participants were engaged and expressed a desire for more of these walks; this is good feedback for the Commission.

Chair Haynes also met with the trails consultant, who has a lengthy (more than 150 pages) document, mostly photos, assessing the trails in the forest. The consultant has walked and assessed more miles of trails than he was contracted to do. He has provided detailed descriptions of the trail conditions and recommendations for how he sees the trails incorporating many uses. He separated the forest into Goose Pond, Drummer Hill, and the northern area because the three areas are all used differently. Chair Haynes is unsure when the next subcommittee meeting is to discuss priorities in conjunction with the recommendations. A working draft of the Stewardship Plan should be available in July, there will be another public meeting in August, and the document could be complete in September.

Mr. Reilly asked if the consultant met with the mountain bike group; they expressed interest. Chair Haynes did not know, but they have been at other meetings and there are recommendations to improve some trails for mountain biking.

Ms. Chalice noted that soon the Commission may be able to share a Google Drive, which can facilitate sharing large documents like this Stewardship Plan. When that option is available, she will create a drive for the Commission.

Mr. Bergman asked if the report is sensitive to potential conflicts between biking, hiking, and wildlife. Chair Haynes replied yes.

d. Commission Functions/Roles

Chair Haynes noted the document shared by Councilor Hansel proposing changes to the Commission roles and functions in the City Code. He suggested everyone read it for the July meeting to discuss for adoption. Councilor Hansel said this is just to start a conversation; he removed redundancies, cleaned up language, and made some edits. He is open to suggestions for additions or deletions. He did not want to make substantive decisions about the role of the Commission. Chair Haynes said he thinks it is streamlined.

Chair Haynes made a suggestion. In Section 2-774 (Powers, duties and guidelines), he suggested not using the word *development*. Instead he suggest it should read, “(1) Promote the wise use of natural resources in the city and the protection of watershed resources of the city.”

Ms. Chalice suggested allowing the Planning Director a few days to make sure any edits are okay before Commission approval to send to Council. Councilor Hansel said he did review the enabling legislation and it seemed the City is doing everything necessary.

Mr. Reilly said the first two sections do not address the fact that there are two alternates on the Commission. Councilor Hansel replied that he used the same language as the Climate Committee; they recently revised their language and did not mention alternates because, he assumes, that prevents a limit on the number of possible alternates. Ms. Chalice will confirm if that is the case. Mr. Reilly asked if it should state how one becomes a member and details about term limits and reapplying. Councilor Hansel thinks that is left out because it is included in the governing documents that explain those more universal guidelines.

Councilor Hansel added that he reworded some portions to make clear that staff have no specific obligations to the Commission but are available in a support role.

The Commission will discuss these edits at the July meeting.

5) New or Other Business

Chair Haynes asked about land prioritization criteria. Ms. Chalice replied that she will ask for a meeting with Ms. Kessler to look at the database. She said the subcommittee can be involved as well. Chair Haynes said he wants to move forward without pressuring Ms. Chalice or Ms. Kessler because it is important information for other projects the Commission might do.

Chair Haynes noted there was an email from Liberty Utilities about putting a pipeline under the Ashuelot River along Winchester Street. Ms. Chalice said there is already a pipeline there; the application is to replace this crossing with an underground line, the

river, perpendicular to the current pipeline along Winchester Street to create redundancy for future potential maintenance needs She does not know the status of the application, but the pipeline would be at one discrete location. She will find out if there is a comment period and if the Commission will see the application. Ms. Clark said that ARLAC would be reviewing the Permit by Notification for the pipeline at their meeting at 7:00 PM on June 19 at the Surry fire station. She will also share information with Ms. Chalice. Ms. Clark said the Commission does not comment on this permit because the drilling is under the river and therefore not affecting wetlands. Mr. Madison said that is a primary aquifer for Swanzey and other public water supplies downstream, so the Commission should be able to comment. Ms. Chalice will try to learn more.

Chair Haynes reported he has not yet called Anita Carroll-Weldon at the Horatio Colony House Museum and Nature Preserve about sponsoring co-walks. Ms. Chalice spoke with Donna Hanscom, who was interested in the Commission's plans for education. Chair Haynes said he was considering the Babbidge Dam and Roxbury water source as a place for an interesting walk; they could learn about the scope of the project and it will be interesting because people are not usually allowed there. Ms. Chalice said she will work on this further now that she understands the context; she will find out the status of the project and the possibility of a walk.

Ms. Clark noted that ARLAC sent a letter to the Commission requesting a \$125 donation for E.coli testing; they send letters to all towns adjacent to the river requesting funds. ARLAC tests sites along the river monthly beginning in May. Ms. Chalice has not received that request yet, but will look into it as it is time sensitive; Ms. Clark said that amount is a part of the donation the Commission makes to ARLAC annually. Ms. Chalice did receive a request for funds from the Monadnock Conservancy. Both requests will be on the agenda in July.

6) Adjournment – Next Meeting Date Monday, July 16, 2018

Hearing no further business, Chair Haynes adjourned the meeting at 5:34 PM.

Respectfully submitted by,
Katie Kibler, Minute Taker



WETLANDS PERMIT BY NOTIFICATION (PBN)

Land Resources Management

Check the status of your submitted notification: www.des.nh.gov/onestop/index.htm

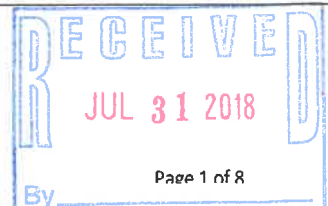


RSA/Rule: RSA 482-A/ Env-Wt 100-900

1. PROJECT TYPES			
The PBN process is limited to the 14 project types listed below. Using the Project Specific Criteria Documents , confirm your project proposal qualifies to use this Permit by Notification process and check the qualifying project type(s) listed below:			
<input type="checkbox"/> 1	Freshwater Seasonal Dock: Construction or modification of a seasonal pier or wharf (dock), located on a non-tidal stream or river or in a lake or pond.	<input checked="" type="checkbox"/> 8	Culvert/Bridge Replacement: The replacement of a culvert/bridge on a watercourse with a contributing watershed less than or equal to 25 acres to permit vehicular access to one single family lot or for noncommercial recreational use.
<input type="checkbox"/> 2	Retaining Wall Repair and Replacement: Repair or replacement in-kind of a retaining wall (<i>in the dry during draw down</i>).	<input type="checkbox"/> 9	Beach Replenishment: Replenishment of an existing non-tidal beach with less than 10 cubic yards of sand.
<input type="checkbox"/> 3	Maintenance Dredge: Maintenance dredging, when necessary to provide continued usefulness of nontidal drainage ditches, man-made ponds, and spillways <i>Stormwater detention ponds, fire ponds, or agricultural ponds may be exempt from permitting pursuant to RSA 482-A:3, IV-b. See the project specific criteria document for further information.</i>	<input type="checkbox"/> 10	Seasonal Dock Anchoring Pad: Construction of an anchoring pad for a seasonal dock in non-tidal waters.
<input checked="" type="checkbox"/> 4	Temporary Cofferdams: Temporary cofferdams and other water control devices constructed in flowing water or adjacent to dams in conjunction with the repair or maintenance of existing structures. All work must be designed, and supervised by a professional engineer (PE).	<input type="checkbox"/> 11	Boatlift: Installation of <i>one</i> seasonal boatlift in non-tidal waters and not within 20 feet of abutter's property line.
<input type="checkbox"/> 5	Docking Structure Repair: Repair of <u>existing</u> tidal docking structures or repair of non-tidal docking structures.	<input type="checkbox"/> 12	Watercraft Lift: Installation of <i>one or two</i> personal watercraft lift(s) in non-tidal waters adjacent to a dock.
<input type="checkbox"/> 6	Dry Hydrant: For a dry hydrant ONLY, excavation of less than 10 linear feet within the bank and bed of a surface water that does not exceed 200 square feet in total jurisdictional impact to the bed.	<input type="checkbox"/> 13	Residential Utilities: Installation of a residential utility line. Stream impacts limited to a contributing watershed of 25 acres.
<input type="checkbox"/> 7	Maintenance of a Non-Docking Structure: Maintenance, repair or replacement of a non-docking structure.	<input type="checkbox"/> 14	Utility Right-of-Ways: Temporary impacts associated with the inspection, maintenance and repair of existing utility lines within an existing utility right of way. <i>Use the Utility Maintenance Notification form for this project type.</i>

2. RELATED NHDES LAND RESOURCES MANAGEMENT PERMIT APPLICATIONS ASSOCIATED WITH THIS PROJECT:
Please indicate if any of the following permit applications are required and, if required, the status of the application.
To determine if other Land Resources Management Permits are required, refer to the [Land Resources Management Web Page](#).

Permit Type	Permit Required	File Number	Permit Application Status
Alteration of Terrain Permit Per RSA 485-A:17	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Individual Sewerage Disposal per RSA 485-A:2	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Subdivision Approval Per RSA 485-A	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Shoreland Permit Per RSA 483-B	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED



irm@des.nh.gov or (603) 271-2147

NHDES Wetlands Bureau, 29 Hazen Drive, PO BOX 95, Concord, NH 03302-0095

www.des.nh.gov

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

3. PROJECT LOCATION

A separate application must be filed with each municipality that jurisdictional impacts will occur in.

ADDRESS: Chapel Drive		TOWN/CITY: Keene	
TAX MAP: 534	BLOCK: 004	LOT: 000	UNIT:
US GEOLOGICAL SURVEY TOPO MAP WATERBODY NAME: Beaver Brook			
LOCATION COORDINATES (If known): 42.939981, -72.271425 <input checked="" type="checkbox"/> Latitude/Longitude <input type="checkbox"/> UTM <input type="checkbox"/> State Plane			

4. PROJECT DESCRIPTION:

Provide a brief description of the project, outlining the scope of work to be performed, including a narrative that describes the sequence of construction including pre-construction through post-construction activities and the relative timing and progression of all work. Do not write "see attached."

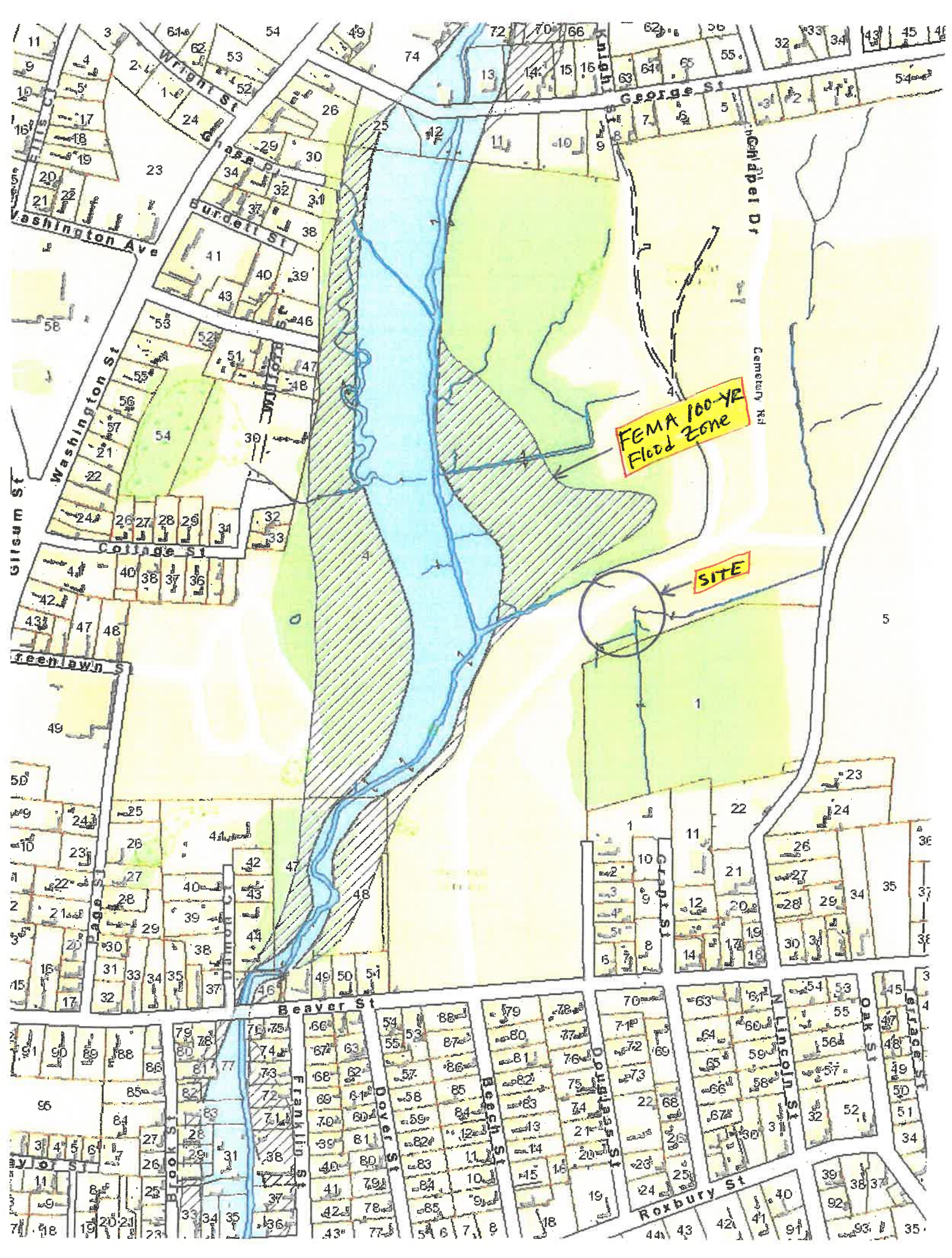
The City of Keene is proposing to replace an existing collapsed 2'x3' stone masonry culvert that runs under the Woodland Cemetery access road and burial sites. The existing stone masonry culvert collapsed at the inlet and it is impossible to perform any type of repair work without disturbing graves on top of it. The City is proposing to abandoned the existing culvert and install a new 136 ft. long double 24" High Density Polyethylen (HDPE) culvert pipe parallel to it. Installing a new culvert is very critical in order to prevent desecration of burial ground and flooding adjacent parcels. The proposed double 24" HDPE pipes will be installed 65 feet away from the existing culvert location, which will eliminate the need to excavate under the existing graves. The proposed culvert flow discharge rate will be approximately the same as the existing culvert.

5. IMPACT AREA:

For each jurisdictional area that will be/has been impacted, provide square feet and, if applicable, linear feet of impact.

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

Jurisdictional Area	Permanent Sq. Ft.	Temporary Sq. Ft.	Jurisdictional Area	Permanent Sq. Ft.	Temporary Sq. Ft.
Forested wetland			Lake		
Emergent wetland			Pond		
Wet meadow			Tidal water		
Intermittent stream	700	870	Previously-developed upland in TBZ		
Perennial stream / river			Other		



FEMA 100-YR
Flood Zone

SITE

William A. Beauregard
127 Washington Street
Keene, NH 03431

July 3, 2018

Keene Conservation Commission
Thomas P. Haynes, Chair
3 Washington Street
Keene, NH 03431

Dear Chair Haynes,

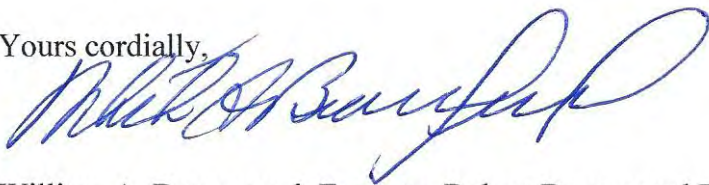
I write this letter as the Executor of my dad's (Robert A. Beauregard) estate and Trustee of my dad's trust, The Robert Beauregard Revocable Trust of 2000. Before my dad passed away, he engaged the Keene Conservation Commission and several Keene City Committees in 2008 to determine the interest of the City of Keene in acquiring the 27.5 acres he owned on the face of Beech Hill. As that dialogue was moving along and before a decision could be resolved, dad had a stroke, wound up in a nursing home for an extended period of time and ultimately passed away.

This piece of land is on the face of Beech Hill and is very prominent visually from the valley floor, the center of Keene and as you enter Keene from the west. It abuts the 122 acre Beech Hill Park the City already owns. It was of interest to the city when dad was involved with these discussions before he passed.

I have been charged by my siblings with the liquidation of my dad's assets and have been dealing with dad's home, investment real estate and his various businesses. I am now focusing on the pieces of land dad owned. Before we explore the development potential of the Chapman Road land, I suggested to my siblings that I reach out the City of Keene Conservation Commission and reopen the dialogue that had taken place previously. To that end, I had a meeting with City Planner, Rhett Lamb and Parks and Recreation Director, Andy Bohannon. They indicated that there may still be interest on the part of the Conservation Commission and City of Keene in acquiring this land and suggested I start the process by reaching out to your committee.

In my discussions with Planner Lamb and Director Bohannon, I believe the City already has a substantial amount of information concerning the land. If you need anything else from me, please contact me at my office (357-3066) or by email wab@ne.twcbc.com. I will await your replay.

Yours cordially,



William A. Beauregard, Executor Robert Beauregard Estate,
Trustee of The Robert Beauregard Revocable Trust of 2000



Beauregard Property & Conservation Lands

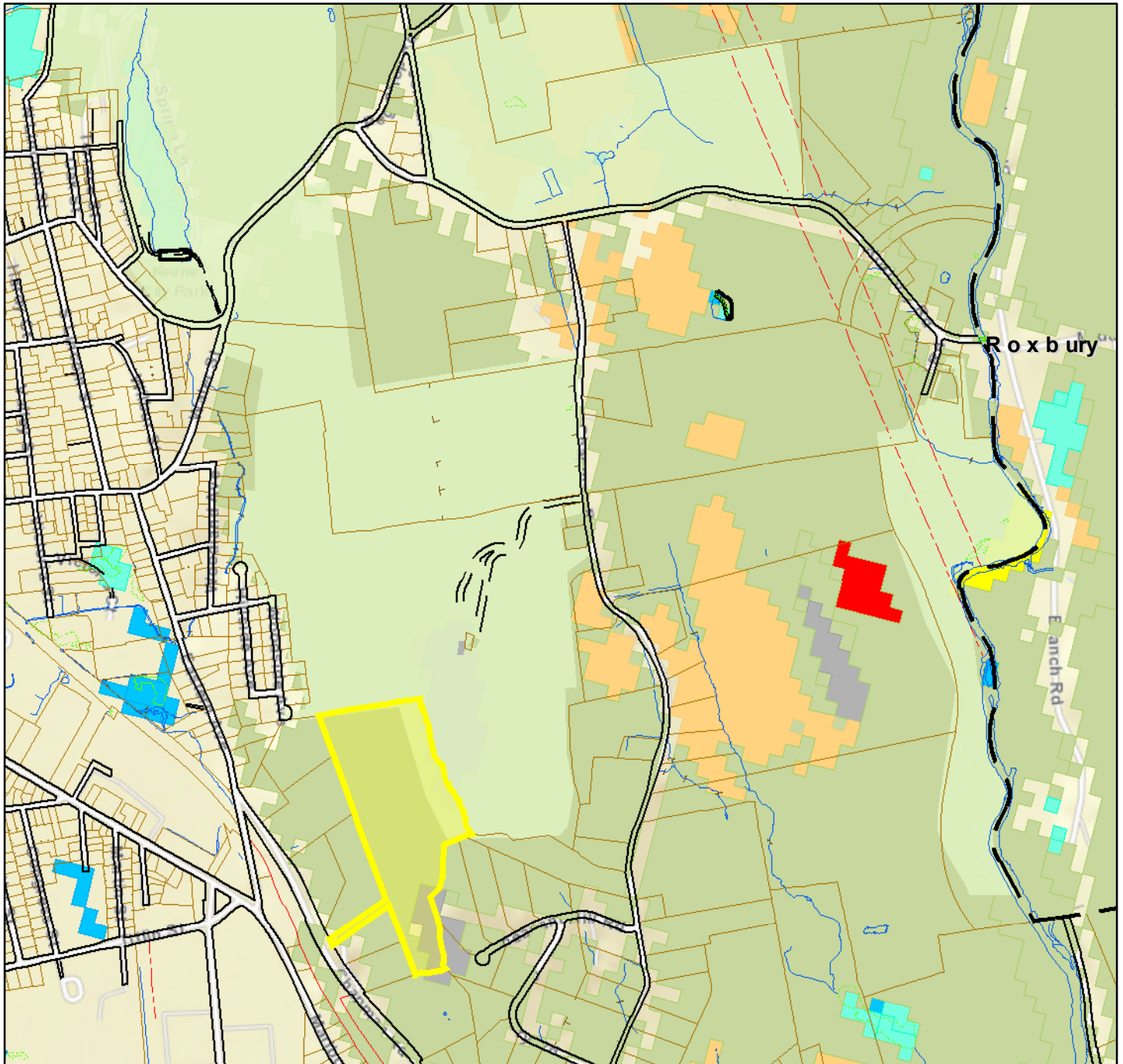
Keene, NH



August 9, 2018

1 inch = 1075 Feet

www.cai-tech.com



Large Scale	Utility	WaterLines	NLCD Barren or Developed
CAI Town Line	Bridge	Conservation Land	Rocky ridge
PWater	Dam	Appalachian oak-pine	Temperate swamp
Property Line	Property Hook	Cliff and Talus slope	Marsh and shrub wetland
Public Road	Property TIC	Floodplain forest	2 Highest Ranked Habitat in Biological Region
Railroad	RoadNotPar	Grassland	3 Supporting Landscapes
Right of Way	Wetland	Hemlock-hardwood-pine	

Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.



Beauregard Property

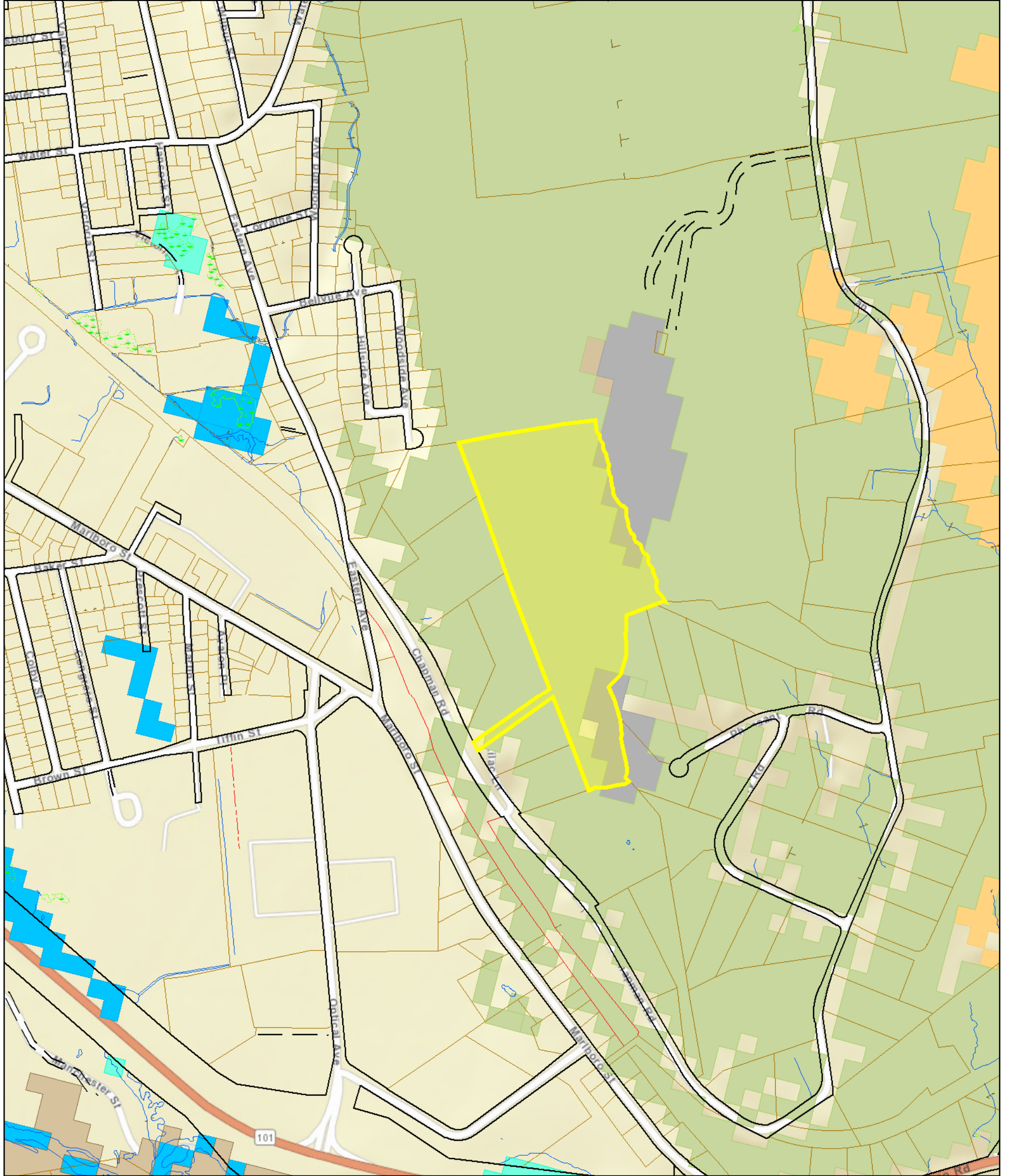
Keene, NH



August 9, 2018

1 inch = 537 Feet

www.cai-tech.com



PWater	RoadNotPar	Temperate swamp
Property Line	Wetland	Marsh and shrub wetland
Public Road	WaterLines	2 Highest Ranked Habitat in Biological Region
Railroad	Wet Areas	
Right of Way	Appalachian oak-pine	
Private Road ROW	Grassland	
Utility	Hemlock-hardwood-pine	
Property Hook	NLCD Barren or Developed	
Property TIC	Rocky ridge	

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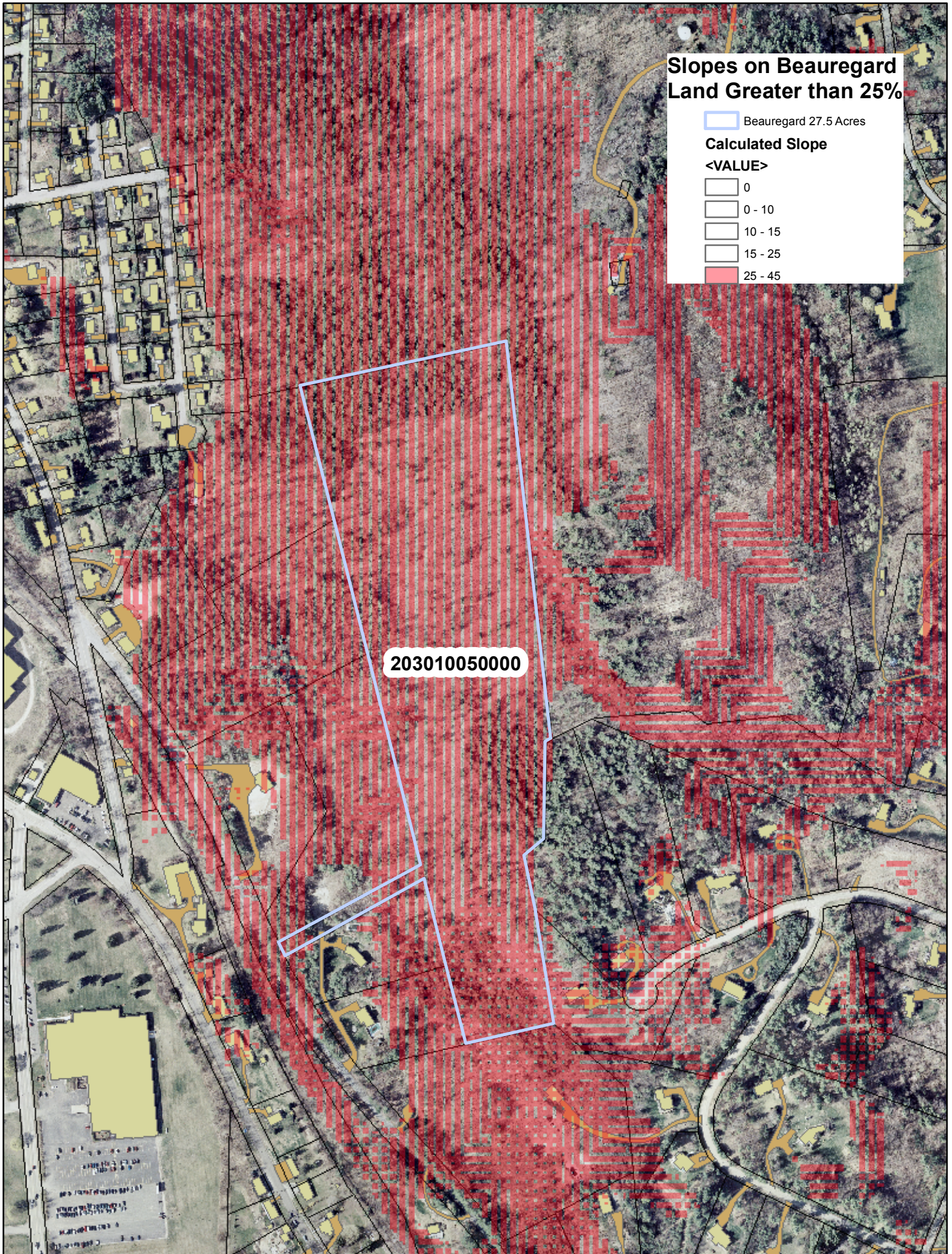
Slopes on Beauregard Land Greater than 25%

Beauregard 27.5 Acres

Calculated Slope

<VALUE>

- 0
- 0 - 10
- 10 - 15
- 15 - 25
- 25 - 45



Ashuelot River Local Advisory Committee

Washington Lempster Marlow Gilsum Sullivan Surry Keene Swanzey Winchester Hinsdale

April 20, 2018

Keene Conservation Commission
3 Washington St.
Keene, NH, 03431

RE: Ashuelot River monitoring program

Dear Conservation Commissioners:

It is April and planning for the 2018 Ashuelot River monitoring has begun! The Ashuelot River Local Advisory Committee thanks you for your past support enabling us to continue our surveillance of *E.coli* within the River in June, July, August and September.

This past summer 135+ hours were logged by 18 volunteers to accomplish the various aspects of the program. The Ashuelot River is classified as "class B," meaning that it is considered suitable for fishing, swimming and other recreational uses.

Taking a quick look at this year's results we find:

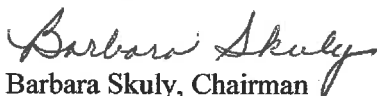
- **E. coli:** most samples met the "Class B" level for surface waters with values well below 100 MPN/100 ml from Washington downstream to the Stone Arch Bridge in Keene. At Rte 101 and downstream there were higher numbers especially in August when we had a heavy rain. September sampling showed Class A levels throughout. Numbers are frequently high after heavy rains and increased run-off.
- **pH levels:** results continue to be acidic with most readings below the standard of 6.5, especially in the upper reaches of the Ashuelot north of Keene.
- **Total phosphorous:** Generally samples showed low levels, but a single high reading was obtained in Marlow in September.
- **Dissolved oxygen, chloride, turbidity and specific conductance** remained within the standard with specific conductance increasing from Keene and downstream.

All data is submitted to the EPA. The full data report with state standards is available under *Annual Reports* at <https://www.des.nh.gov/organization/divisions/water/wmb/vrap/index.htm>

The Ashuelot River is a valuable asset to your community which benefits by the maintenance of its healthy River ecosystem. With this in mind, ARLAC is asking for your continued support of our Ashuelot River monitoring. \$125 from each town would once again assure that our bacteria monitoring continues. We have been successful in fundraising enabling us to purchase new pH meters last year. If you are able to increase your donation, the additional funding will aid the purchase of new conductivity and dissolved oxygen meters which are 15 years old.

Our season starts May 22nd and we hope we can count on your support!

Sincerely,



Barbara Skuly, Chairman
bskuly@ne.rr.com





Domina Property (~60 acres)

A proposal to the Keene Conservation Commission from the Monadnock Conservancy

August 13, 2018

The Monadnock Conservancy requests **\$14,000** from the Keene Conservation Commission to conserve 60 acres on Daniels Hill Road in Keene. These funds will go towards the project transaction costs (see budget on page 2.) The property will be protected with a permanent conservation easement which will ensure that the land can never be subdivided and developed. Traditional land uses, such as those associated with forestry, agriculture, and recreation, will continue to be allowed.

This property straddles both sides of Daniels Hill Road and is just up the road from the Horatio Colony Preserve. The land is strategically located within a block of 800 acres of conserved land on West Hill, including three other Conservancy easements (see attached maps). The habitat connectivity this property will expand upon is the primary reason the Conservancy wishes to protect it.

The property is owned by Charlie Domina and his sister Judith Dimock. Charlie and Judith are 3rd generation owners of this property who both spent their childhood summers on the land. They have a strong attachment to the property and wish for it to be protected. They are conserving the land in honor of their late sister Emily who spent her final years on the property. They will be generously donating a conservation easement to the Conservancy. We expect to complete the project by December 2018.

Conservation Values

- **Expands existing block of conservation land.** Property is adjacent to approximately 800 acres of conserved land, expanding the already large habitat corridor between Keene and Chesterfield within the California Brook Natural Area (CBNA). The CBNA is the largest block of unfragmented land (28,000 acres) in all of southern New Hampshire. The CBNA has been identified in several studies as being a high priority for conservation, including: 1) Dr. Rick Van de Poll's "*California Brook Natural Area Rapid Bio-Assessment, 2001*" and 2) The Nature Conservancy's "*A Land Conservation Plan for the Ashuelot River Watershed, 2004*"
- **Critical wildlife habitat.** Twenty-seven acres are designated as "supporting landscape" habitat, as determined by the 2015 NH Wildlife Action Plan. Abundant wildlife has been observed on the land including deer, bear, fox, coyote, and numerous songbirds.
- **Important forestry soils.** The entire property consists of Group 1 forestry soils—soils that are well suited for producing and harvesting quality timber.
- **Water resources.** The property has approximately 1,200' on a first order stream, as well as several springs.
- **Scenic rural landscape.** The property has approximately 2,000' of scenic, forested frontage on Daniels Hill Road and another 1,400' along Route 9.

- **Meets municipal conservation priority.** The City of Keene’s Open Space Plan (1990) recommends “securing easements from property owners to establish permanent buffers along edge of all major roadways” to provide wildlife habitat and preserve rural character in Keene.

Project Budget

Note: some costs are estimates and subject to change

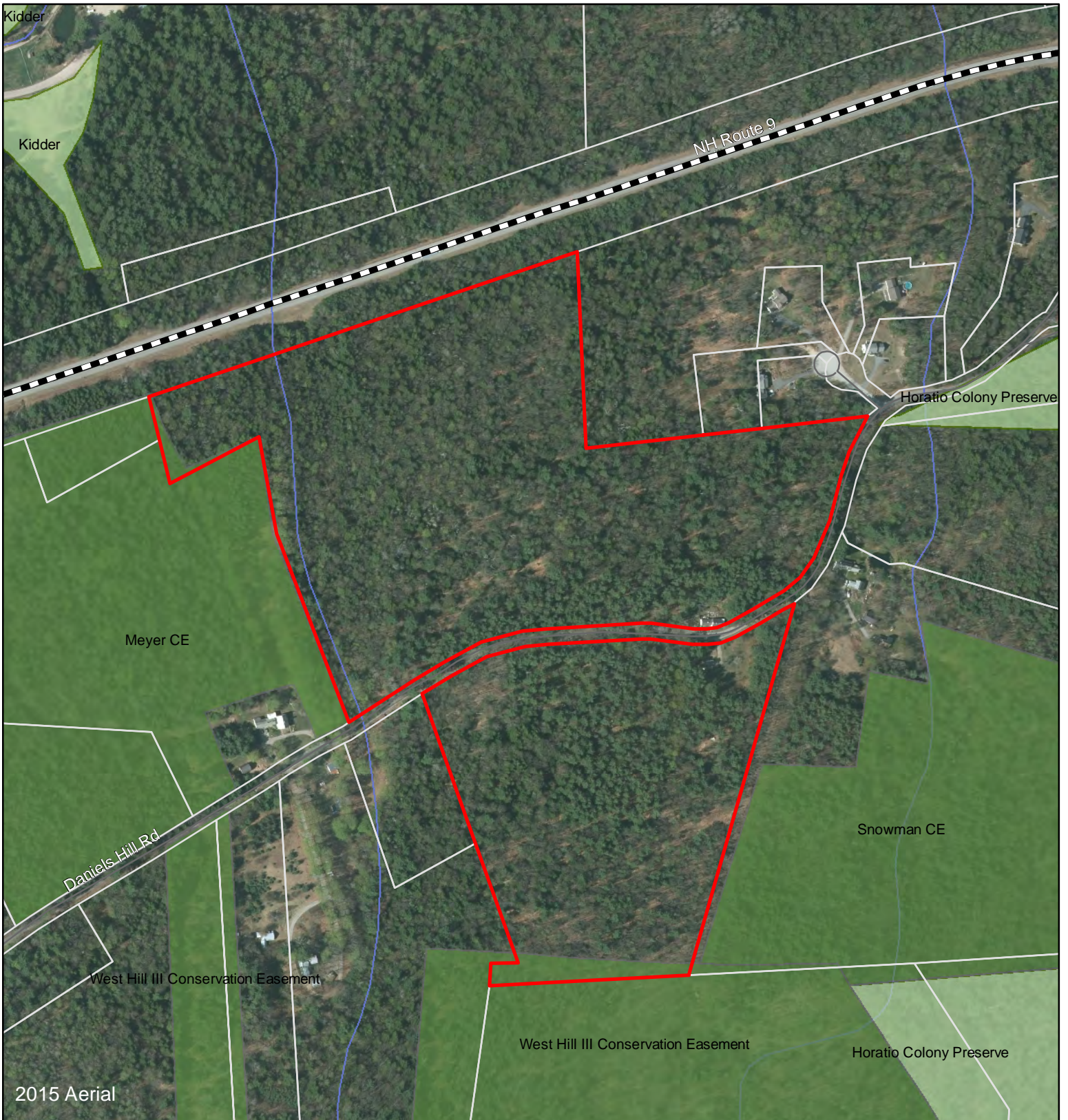
Estimated Costs

Staff Time (72 hours @ \$60/hr)	\$4,320	
Legal Costs (includes title exam)	\$1,500	
Boundary Survey	\$5,000	
Environmental Assessment	\$350	
Recording Fees	\$125	
Admin (15% of transaction costs)	\$1,694	
Easement Stewardship Fund	\$7,500	
TOTAL	\$20,489	

Funding Sources

City of Keene Conservation Fund (pending)	\$14,000	
Monadnock Conservancy's Greenways and Corridor Fund	\$5,489	
Landowner donation (pending)	\$1,000	
TOTAL	\$20,489	





Domina property, Keene, ~60 acres, Daniels Hill Road

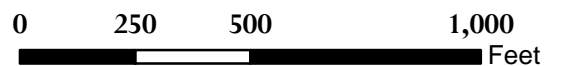


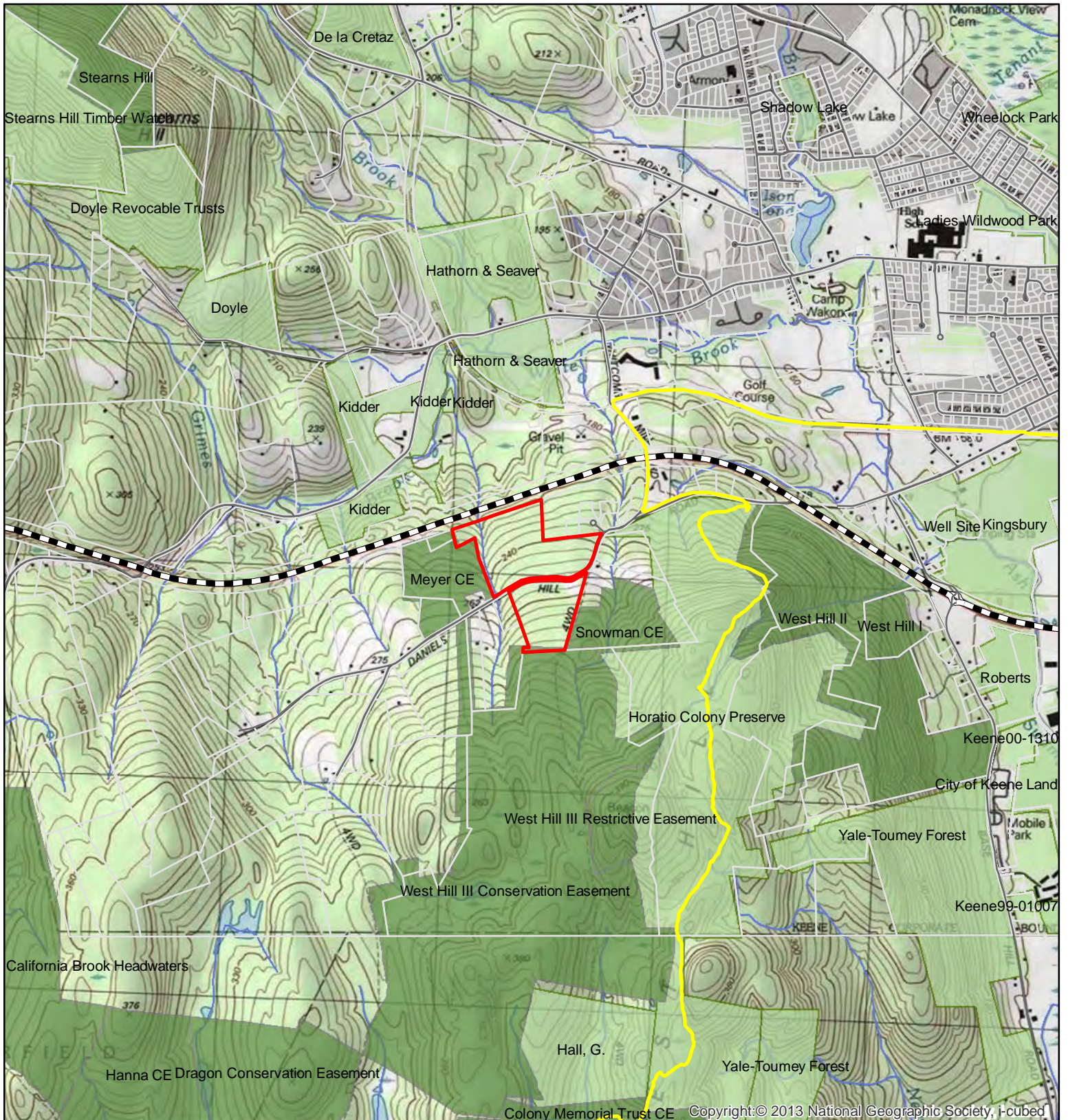
NAD 83 - NH State Plane
 S. Cibula, 6-19-18
 Source: GRANIT & SWRPC

- Domina property
- Local Roads
- State Roads
- Parcel Bounds
- Monadnock Conservancy Lands
- Other Protected Lands
- Streams

Note: Map is not survey accurate.

1:5,000





Domina property, Keene, ~60 acres, Daniels Hill Road



NAD 83 - NH State Plane
 S. Cibula, 7-12-18
 Source: GRANIT & SWRPC

- Wantastiquet to Monadnock Trail
- Domina property
- Local Roads
- State Roads
- Parcel Bounds
- Monadnock Conservancy Lands
- Other Protected Lands
- Streams

Note: Map is not survey accurate.

1:24,000



WEST STREET HYDRO

July 16, 2018

Chairperson
Cities for Climate Protection
3 Washington Street
Keene, NH 03431

Re: P-14471-000 Withdrawal of Project

Dear Cities for Climate Protection Chairperson:

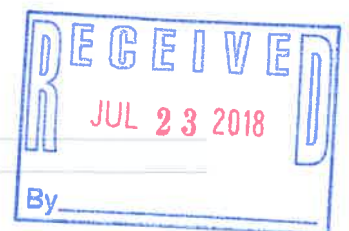
On behalf of West Street Hydro, Inc., we hereby submit a withdrawal of project in accordance with the Article 4 of the preliminary permit issued on April 24, 2013 for the Ashuelot River Dam Hydroelectric Project.

General Information On December 10, 2012, West Street Hydro, Inc. (WSH) filed an application for a preliminary permit, pursuant to section 4(f) of the Federal Power Act (FPA) to study the feasibility of the proposed Ashuelot River Dam Hydroelectric Project No. 14471-000 to be located on the Ashuelot River, in the City of Keene, Cheshire County, New Hampshire.

The proposed project would consist of: (1) the existing 160-foot-long, 16-foot-high, stone masonry Ashuelot dam that includes a 134-foot-long spillway with new 1-foot-high flashboards; (2) an existing 34-acre impoundment with a normal water surface elevation of 472 feet above mean sea level; (3) a new intake structure; (4) a new 22-foot-wide, 22-foot-high powerhouse containing two 43-kilowatt (kW) turbine generating units for a total installed capacity of 86 kW; (5) a new 50-foot-long tailrace; (6) a new 330-foot-long, 34.5-kilovolt transmission line; and (7) appurtenant facilities. The proposed project would have an average annual generation of approximately 360 megawatt-hours. There are no federal or state lands associated with the project.

Withdrawal Notice

The West Street Hydro, Inc. Board of Directors has concluded that the project is not



Ashuelot River Local Advisory Committee

Washington Lempster Marlow Gilsum Sullivan Surry Keene Swanzey Winchester Hinsdale

July 30, 2018

Debra Howland
Executive Director and Secretary NH Public Utilities Commission
21 S. Fruit Street, Suite 10
Concord New Hampshire 03301

RE: DG 18-092 Liberty Utilities (Energy North Natural Gas) Corp.
Petition for a License to cross the Ashuelot River in Keene, NH

Dear Ms. Howland:

The Ashuelot River Local Advisory Committee (ARLAC) convened in 1994 with the acceptance of the Ashuelot River into the NH Rivers Management and Protection Program. Appointed by the Commissioner of the NH Department of Environmental Services (NHDES), ARLAC represents the ten corridor towns of the Ashuelot River and acts in an advisory capacity to NHDES. ARLAC has implemented a river monitoring program since 2001 with the assistance of the NH Volunteer River Assessment Program. We have established within the river corridor a management plan that proposes the protection of plentiful clean water, thriving riparian and aquatic habitat for wild plants and animals, and providing balance for continued development of land use and water uses, recreation, and other public needs.

We have reviewed the petition noted above as well as plans submitted to NHDES Shoreland Program, at our meetings of June 19 and July 17, 2018, and have had communications with representatives from Liberty Utilities. We have concerns regarding the possible contamination to the river and or/groundwater due to inadvertent release of fluids during the drilling process.

1. The soil borings provided are from those taken in 1964 for the building of the Winchester St. Bridge over the Ashuelot River. The report states “ borings are for design and show conditions at boring points only and do not necessarily indicate nature of materials to be encountered during construction.” We would like to see a more current and accurate evaluation of the substrate through which the proposed pipeline drilling will occur. Hydrogeological data should include stratigraphy, groundwater levels, upwellings, seeps and any ecological sensitivities that may be at risk. Perhaps the use of ground penetrating radar would provide more thorough information. Also included should be an accurate cross section of the river at the location of the drill path to include the stream bed elevations. The boring information provided by Liberty Utilities reflects exactly where the bridge is located and does not necessarily reflect the substratum in the proposed drill path beneath the river.

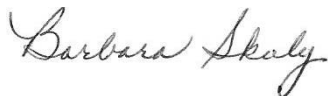
2. The Cheshire County Soil Survey shows the likely soil here to be Occum, a fine sandy loam with bedrock located at greater than 60 inches. Being a well-drained soil with rapid or very rapid permeability in the substratum, it provides a pathway for possible ground water contamination. The site also lies above a stratified drift aquifer with a transmissivity of >1000 ft²/day. If a frac out should occur during drilling, or the release of sediment laden water, there is a risk to the biota in the surface water as well. How were drilling pressures determined so to minimize possible frac out? We would like to see a contingency plan that would specify conditions that would mandate the cessation of drilling, the mitigation that would be implemented, and the conditions in which drilling would resume after mitigation.

We have been told the drilling water will be sucked from the sending pit via a vacuum truck and disposed of properly off-site, and ask where that site would be.

3. Estimated seasonal high water table is at a depth of 4-6 feet, what provision is there to manage intrusion into the water table during drilling? Plans should also define best management practices to avoid contamination from petroleum products at the site of drilling.
4. The proposed plan does not provide for environmental oversight during construction. Given the proximity to the river and groundwater, we would like to see a provision in the plans for an environmental monitor with an understanding of the potential risks, and the ability to manage situations that may cause environmental damage and provide advice during an emergency.

Thank you for the opportunity to comment on this proposal.

Respectfully submitted,



Barbara Skuly
Chairman

Cc: Andrew Mills, Liberty Utilities
Tracie Sales, NHRMPP
Keene Conservation Commission
Keene City Council



August 3, 2018

Kristin Duclos, Wetlands Specialist
NHDES Wetlands Bureau
PO Box 95
Concord, NH 03302-0095
Via email, Kristin.duclos@des.nh.gov

Subject: Wetlands File #2018-00418, Goose Pond Dam, Responses to RFMI

Dear Kristin,

Please see the responses to your RFMI letter of May 8, 2018 below. The responses are numbered in accordance with the RFMI letter.

1. Following are our responses to the Ashuelot River LAC letter of Feb. 27, 2018.

Vernal pool A appears to be able to contain water of about 1' depth at best. Vernal Pool B appears to be able to contain water of about 6" deep at best. The area designated on the plans as Vernal Pool B includes both vernal pool and associated non-vernal pool wetland. The area north of the existing access road is on a gentle slope towards the pond, and does not appear to be capable of pooling water. Thus, that area should better be considered as associated wetland, rather than as vernal pool per se. We note that both pools had no standing water present during a field visit on June 27, 2018.

In terms of impacts to amphibians, the design has changed to avoid Vernal Pool A altogether, and to impact only associated wetland, not actual vernal pool at "Vernal Pool B."

The timing of work in the vicinity of the vernal pools will be dictated by NH Fish and Game, based upon all information submitted to them, including a review of the June 27, 2018 site visit with Kristin Duclos. Comments from Melissa Doperalsky and Josh Megyesy of NH Fish and Game were requested on July 6, 2018. No comments have been received to date. We assume they will provide their comments on timing of work to NH Wetlands for incorporation into the Wetlands permit.

Item 38 of Sheet 2 of 20 of the plans has been updated with a work start date at the vernal pools of August 1. This may be updated again depending upon the decision of NH F&G, in light of the change of design to avoid actual vernal pool areas.

Stone blocks have been eliminated from the plans, since the revised access route will no longer impact vernal pools.

2. Impacts to the vernal pools have been eliminated by re-routing the access road in that vicinity. Impact to "Vernal Pool B" will actually be to wetland associated with the vernal pool, not to an area of pooled water which could be properly designated as vernal pool, as discussed under Item 1 above.
3. A copy of the abutter notification letter and proofs of abutter notification are attached.
4. The Applicant has changed their proposal for the drawdown of the pond to a maximum depth of six feet. The plans (Item 75, Sheet 2 of 21) will indicate a drawdown of four feet, to encourage the Contractor to find a way to construct within those limits, but if the Contractor finds that four feet is not practicable, we would like to have the option to drawdown the full six feet.
 - a. The drawdown is expected to begin in mid-May of 2019.
 - b. The drawdown will last through September 30 of 2019.
 - c. Low flow in the brook below the dam is currently maintained by sheet flow over the spillway of the dam. During construction, a siphon and/or pump will be used to convey water over the spillway and to maintain low flow conditions of the brook downstream.
5. The requested drawdown is now a maximum of six feet. The rate of drawdown will be six inches per day, as recommended by the NH F&G Drawdown Guidelines (Item 43 of Sheet 2 of 20 changed to reflect this); thus drawdown of six feet would require twelve days. The drawdown will begin mid-May of 2019 and continue through September 30, 2019. The refilling rate will be at 90% of the inflow to pass through to the stream, while retaining 10% of the inflow to refill the pond, per NHDES Refill Guidelines. The final plans for the project will include a Control of Water Plan, to be stamped by a PE and submitted to the NHDES Dam Bureau and NH F&G in August, 2018. Comments on these proposed drawdown and refilling rates and timing were requested from NHDES Dam Safety on June 22, 2018. Charles Krautmann of that Agency responded on July 2, 2018 that he had no comments related to the proposed drawdown or rate of drawdown. The same proposal was sent to Melissa Doperalsky and Josh Megyesy of NH Fish and Wildlife on June 21, 2018. Comments have not yet been received from these parties. Comments received in the future would be incorporated into the plans and the Wetlands Permit.

Item #75 of sheet 2 of 21 has been written to reflect a 4' drawdown, to encourage the Contractor to find a way to accomplish the work with the minimal drawdown possible. However, if the 4' drawdown is impracticable, we request permission to draw down a full 6' if necessary.

6. We propose to refill the pond in accordance with the NH F&G Refill Guidelines, thus at a "rate that allows for 90% of the instream flow to continue downstream while holding 10% of the water until impoundment returns to normal level." This proposal was submitted to the NH Nongame and Endangered Species Program and NH Dam Safety on June 22, 2018, and this or an alternative preferred by these Agencies will be reflected in the Control of Water Plan, to be a part of the Final Plans to be submitted to the NH Dam Bureau and NH F&G in August, 2018. Charles Krautmann of NHDES Dam Safety responded on July 2, 2018 that he had no comments related to the proposed drawdown or rate of drawdown. No comments have been received from NH F&G.



7. A new NHB Report was requested on June 19, 2018, and was received on June 28, 2018 (see NHB18-1918, attached). The description indicated a 10-foot drawdown and the possibility of impacting the vernal pools by the construction of permanent stone tracks. The project polygon was redrawn to include the entirety of the pond. The report indicated the presence of the State Endangered Dwarf Wedge Mussel and the State Species of Special Concern Wood Turtle in the Ashuelot River near Goose Pond. A copy of the new report was sent to Melissa Doperalsky and Josh Megyesy on July 27, 2018, with a request for updated comments.
8.
 - a. Item 27 of Sheet 2 of 21 of the plans states, "The Owner shall notify the NH Fish and Game Director, in writing, two weeks prior to lowering the pond level in accordance with RSA 211:21.
 - b. This condition has been added to Item 27 of Sheet 2 of 21 of the plans.
 - c. This condition has been added to Item 27 of Sheet 2 of 21 of the plans.
 - d. This condition has been added to Item 26 of Sheet 2 of 21 of the plans.
 - e. This condition has been added to Item 27 of Sheet 2 of 21 of the plans.
 - f. This condition has been added to Item 27 of Sheet 2 of 21 of the plans.
9. The permanent stream impact at the dam was identified on Sheet 1 as 260 SF, and remains the same. At the dike, the actual channel was obscured by standing water during my site review, so I included it in the wetland mapping. Per your request, I have isolated out the stream impact, have added those numbers to the permit application, and have reduced the wetland impacts accordingly. See updated Wetland Impact Plans, dated July 24, 2018.
10. On Sheet 1 of 2 of the impact plan for the dam site, the area of the pond within the limits of the cofferdam/turbidity curtain have been added as temporary pond impact.
11. On sheet 2 of 2 of the impact plans previously submitted, there were *three* areas of temporary wetland impact, which totaled 1188 SF (61 SF + 30 SF + 1097 = 1188 SF). However, per your request, I have subtracted 42 SF out from the temporary wetland impact and shifted that to stream impact. The permanent wetland impact has also been reduced by 42 SF, which has been accounted for as stream impact. The vernal pool impacts have changed due to the relocation of the access road. See updated Wetland Impact Plans, dated July 24, 2018.
12. The attached revised wetland impact plan, dated July 24, 2018, includes a legend key for which the lines and symbols on the plan are identified and match the legend key.
13. Item #25 on Sheet 2 of 21 of the plans has been updated to indicate the need for a Shorelands Permit.
14. Item #31 on Sheet 2 of 21 of the plans has been updated to include the NHDES Dam Bureau and the NHDES Wetlands Bureau.
15. Item #31 on Sheet 2 of 21 of the plans has been updated to indicate that the Control of Water Plan will be stamped by a PE.
16. Item #78 (previously #76) on Sheet 2 of 21 has been changed to indicate that temporary erosion control measures shall be inspected each morning and following rain events.

17. Item #38 (not 18) of Sheet 2 of 21 has been updated to correct the typo and to indicate that the Contractor shall not disturb the vernal pools prior to the date defined on the Wetlands Permit, which is expected to be August 1 of the construction year.
18. Final plans, to be sent to NH Dam Bureau, NH Nongame and Endangered Species Program and NHDES Wetlands Bureau in August 2018, will eliminate the "Not For Construction" designation, once the plans have been approved. Meanwhile, the plans being submitted to the Wetlands Bureau are marked as "Wetland Permitting Plans." If any changes affecting wetlands resources are required by NH Dam Bureau or the NH F&G subsequent to the submittal of the Wetlands Permitting Plans, those changes will be communicated to the Wetlands Bureau.

Additional notes:

- The City of Keene has adopted a new system of tax mapping since the submittal of the Wetlands Application on Jan. 24, 2018. The parcel identified in the original application as 914-04-030 is now designated by the City as 212-030. The parcel identified in the original application as 914-04-023 is now designated by the City as 219-025. I have left the old lot numbers on the application, but noted the new numbers.
- The Project Plans and application form have been updated to show the revised impacts discussed above.
- The impacts have increased. A check for the additional fee will be sent under separate cover.

I:\1\123708 Goose Pond Dam\Wetlands\Wetlands L2A\NHDES Wetlands application\Response letter to NH Wetlands.docx



WETLANDS PERMIT APPLICATION

Water Division/ Wetlands Bureau Land Resources Management



Check the status of your application: www.des.nh.gov/onestop

RSA/Rule: [RSA 482-A/ Env-Wt 100-900](#)

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

1. REVIEW TIME: Indicate your Review Time below. To determine review time, refer to [Guidance Document A](#) for instructions.

Standard Review (Minimum, Minor or Major Impact) Expedited Review (Minimum Impact only)

2. MITIGATION REQUIREMENT:

If mitigation is required a Mitigation-Pre Application meeting must occur prior to submitting this Wetlands Permit Application. To determine if Mitigation is Required, please refer to the [Determine if Mitigation is Required Frequently Asked Question](#).

Mitigation Pre-Application Meeting Date: Month: 12 Day: 20 Year: 2017
 N/A - Mitigation is not required

3. PROJECT LOCATION:

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

ADDRESS: **East Surry Road** TOWN/CITY: **Keene**
 TAX MAP: **914** BLOCK: **04** LOT: **030.0000, 023.0000** UNIT:

USGS TOPO MAP WATERBODY NAME: **Goose Pond** NA STREAM WATERSHED SIZE: **1.6 sq mi** NA
 LOCATION COORDINATES (If known): **816322.7/171827.9** Latitude/Longitude UTM

4. PROJECT DESCRIPTION:

Provide a brief description of the project outlining the scope of work. Attach additional sheets as needed to provide a detailed explanation of your project. DO NOT reply "See Attached" in the space provided below.

Rehabilitation of dam, outlet structure and dike: construction access via existina woods path. Lowering of pond elevation by up to 6' during construction.

5. SHORELINE FRONTAGE:

NA This does not have shoreline frontage. SHORELINE FRONTAGE: **8868'**

Shoreline frontage is calculated by determining the average of the distances of the actual natural navigable shoreline frontage and a straight line drawn between the property lines, both of which are measured at the normal high water line.

6. RELATED NHDES LAND RESOURCES MANAGEMENT PERMIT APPLICATIONS ASSOCIATED WITH THIS PROJECT:

Please indicate if any of the following permit applications are required and, if required, the status of the application. To determine if other Land Resources Management Permits are required, refer to the [Land Resources Management Web Page](#).

Permit Type	Permit Required	File Number	Permit Application Status
Alteration of Terrain Permit Per RSA 485-A:17	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Individual Sewerage Disposal per RSA 485-A:2	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Subdivision Approval Per RSA 485-A	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Shoreland Permit Per RSA 483-B	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input checked="" type="checkbox"/> PENDING <input type="checkbox"/> DENIED

7. NATURAL HERITAGE BUREAU & DESIGNATED RIVERS:

See the Instructions & Required Attachments document for instructions to complete a & b below.

a. Natural Heritage Bureau File ID: **NHB 18-1918**

b. [Designated River](#) the project is in ¼ miles of: **Ashuelot River**; and
 date a copy of the application was sent to the [Local River Management Advisory Committee](#): Month: **01** Day: **11** Year: **2018**
 N/A

8. APPLICANT INFORMATION (Desired permit holder)LAST NAME, FIRST NAME, M.I.: **Blomquist, Kurt**TRUST / COMPANY NAME: **City of Keene, Public Works Dept.**MAILING ADDRESS: **350 Marlboro St.**TOWN/CITY: **Keene**STATE: **NH**ZIP CODE: **03431**EMAIL or FAX: **kblomquist@ci.keene.nh.us**PHONE: **603-352-6550**

ELECTRONIC COMMUNICATION: By initialing here: _____, I hereby authorize NHDES to communicate all matters relative to this application electronically

9. PROPERTY OWNER INFORMATION (If different than applicant)LAST NAME, FIRST NAME, M.I.: **Bohannon, Andrew**TRUST / COMPANY NAME: **Keene Parks & Recreation Dept.**MAILING ADDRESS: **312 Washington St.**TOWN/CITY: **Keene**STATE: **NH**ZIP CODE: **03431**EMAIL or FAX: **abohannon@ci.keene.nh.us**PHONE: **603-357-9829**ELECTRONIC COMMUNICATION: By initialing here **AB**, I hereby authorize NHDES to communicate all matters relative to this application electronically**10. AUTHORIZED AGENT INFORMATION**LAST NAME, FIRST NAME, M.I.: **Brodie, Charlotte**COMPANY NAME: **DuBois & King, Inc.**MAILING ADDRESS: **6 Green Tree Drive**TOWN/CITY: **South Burlington**STATE: **VT**ZIP CODE: **05403-6025**EMAIL or FAX: **cbrodie@dubois-king.com**PHONE: **802-728-7202**ELECTRONIC COMMUNICATION: By initialing here **CWB**, I hereby authorize NHDES to communicate all matters relative to this application electronically**11. PROPERTY OWNER SIGNATURE:**

See the Instructions & Required Attachments document for clarification of the below statements

By signing the application, I am certifying that:

1. I authorize the applicant and/or agent indicated on this form to act in my behalf in the processing of this application, and to furnish upon request, supplemental information in support of this permit application.
2. I have reviewed and submitted information & attachments outlined in the Instructions and Required Attachment document.
3. All abutters have been identified in accordance with RSA 482-A:3, I and Env-Wt 100-900.
4. I have read and provided the required information outlined in Env-Wt 302.04 for the applicable project type.
5. I have read and understand Env-Wt 302.03 and have chosen the least impacting alternative.
6. Any structure that I am proposing to repair/replace was either previously permitted by the Wetlands Bureau or would be considered grandfathered per Env-Wt 101.47.
7. I have submitted a Request for Project Review (RPR) Form (www.nh.gov/nhdhr/review) to the NH State Historic Preservation Officer (SHPO) at the NH Division of Historical Resources to identify the presence of historical/ archeological resources while coordinating with the lead federal agency for NHPA 106 compliance.
8. I authorize NHDES and the municipal conservation commission to inspect the site of the proposed project.
9. I have reviewed the information being submitted and that to the best of my knowledge the information is true and accurate.
10. I understand that the willful submission of falsified or misrepresented information to the New Hampshire Department of Environmental Services is a criminal act, which may result in legal action.
11. I am aware that the work I am proposing may require additional state, local or federal permits which I am responsible for obtaining.
12. The mailing addresses I have provided are up to date and appropriate for receipt of NHDES correspondence. NHDES will not forward returned mail.



Property Owner Signature

Print name legibly

Andy Bohannon

1/24/18

Date

Application updated and approved by AB 08.02.18

MUNICIPAL SIGNATURES

12. CONSERVATION COMMISSION SIGNATURE

The signature below certifies that the municipal conservation commission has reviewed this application, and:

1. Waives its right to intervene per RSA 482-A:11;
2. Believes that the application and submitted plans accurately represent the proposed project; and
3. Has no objection to permitting the proposed work.

	Print name legibly	Date
--	--------------------	------

DIRECTIONS FOR CONSERVATION COMMISSION

1. Expedited review ONLY requires that the conservation commission's signature is obtained in the space above.
2. Expedited review requires the Conservation Commission signature be obtained **prior** to the submittal of the original application to the Town/City Clerk for signature.
3. The Conservation Commission may refuse to sign. If the Conservation Commission does not sign this statement for any reason, the application is not eligible for expedited review and the application will reviewed in the standard review time frame.

13. TOWN / CITY CLERK SIGNATURE

As required by Chapter 482-A:3 (amended 2014), 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	Print name legibly	Town/City	Date

DIRECTIONS FOR TOWN/CITY CLERK:

Per RSA 482-A:3,I

1. For applications where "Expedited Review" is checked on page 1, if the Conservation Commission signature is not present, NHDES will accept the permit application, but it will NOT receive the expedited review time.
2. IMMEDIATELY sign the original application form and four copies in the signature space provided above;
3. 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.
4. 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; and
5. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

DIRECTIONS FOR APPLICANT:

1. 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.

14. IMPACT AREA:

For each jurisdictional area that will be/has been impacted, provide square feet and, if applicable, linear feet of impact

Permanent: impacts that will remain after the project is complete.

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

JURISDICTIONAL AREA	PERMANENT Sq. Ft. / Lin. Ft.	TEMPORARY Sq. Ft. / Lin. Ft.
Forested wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Scrub-shrub wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Emergent wetland	2372 <input type="checkbox"/> ATF	1096 <input type="checkbox"/> ATF
Wet meadow	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Intermittent stream	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Perennial Stream / River	3321/61 <input type="checkbox"/> ATF	72/23 <input type="checkbox"/> ATF
Lake / Pond	133/127 <input type="checkbox"/> ATF	2388/210 <input type="checkbox"/> ATF
Bank - Intermittent stream	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Bank - Perennial stream / River	688/122 <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Bank - Lake / Pond	507/180 <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Tidal water	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Salt marsh	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Sand dune	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Prime wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Prime wetland buffer	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Undeveloped Tidal Buffer Zone (TBZ)	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Previously-developed upland in TBZ	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Docking - Lake / Pond	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Docking - River	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Docking - Tidal Water	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
TOTAL	4032/ 490	3556/ 233

15. APPLICATION FEE: See the Instructions & Required Attachments document for further instruction

Minimum Impact Fee: Flat fee of \$ 200

Minor or Major Impact Fee: Calculate using the below table below

Permanent and Temporary (non-docking) 7588 sq. ft. X \$0.20 = \$ 1517.60

Temporary (seasonal) docking structure: _____ sq. ft. X \$1.00 = \$

Permanent docking structure: _____ sq. ft. X \$2.00 = \$

Projects proposing shoreline structures (including docks) add \$200 = \$

Total = \$1517.60 - \$1399.00 previously paid= **\$118.60 owed**

The Application Fee is the above calculated Total or \$200, whichever is greater = \$

shoreland@des.nh.gov or (603) 271-2147

NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095

www.des.nh.gov

NO.	DATE	DESCRIPTION	BY	CK'D



GOOSE POND DAM IMPROVEMENTS
EAST SURRY ROAD
KEENE,
NEW HAMPSHIRE

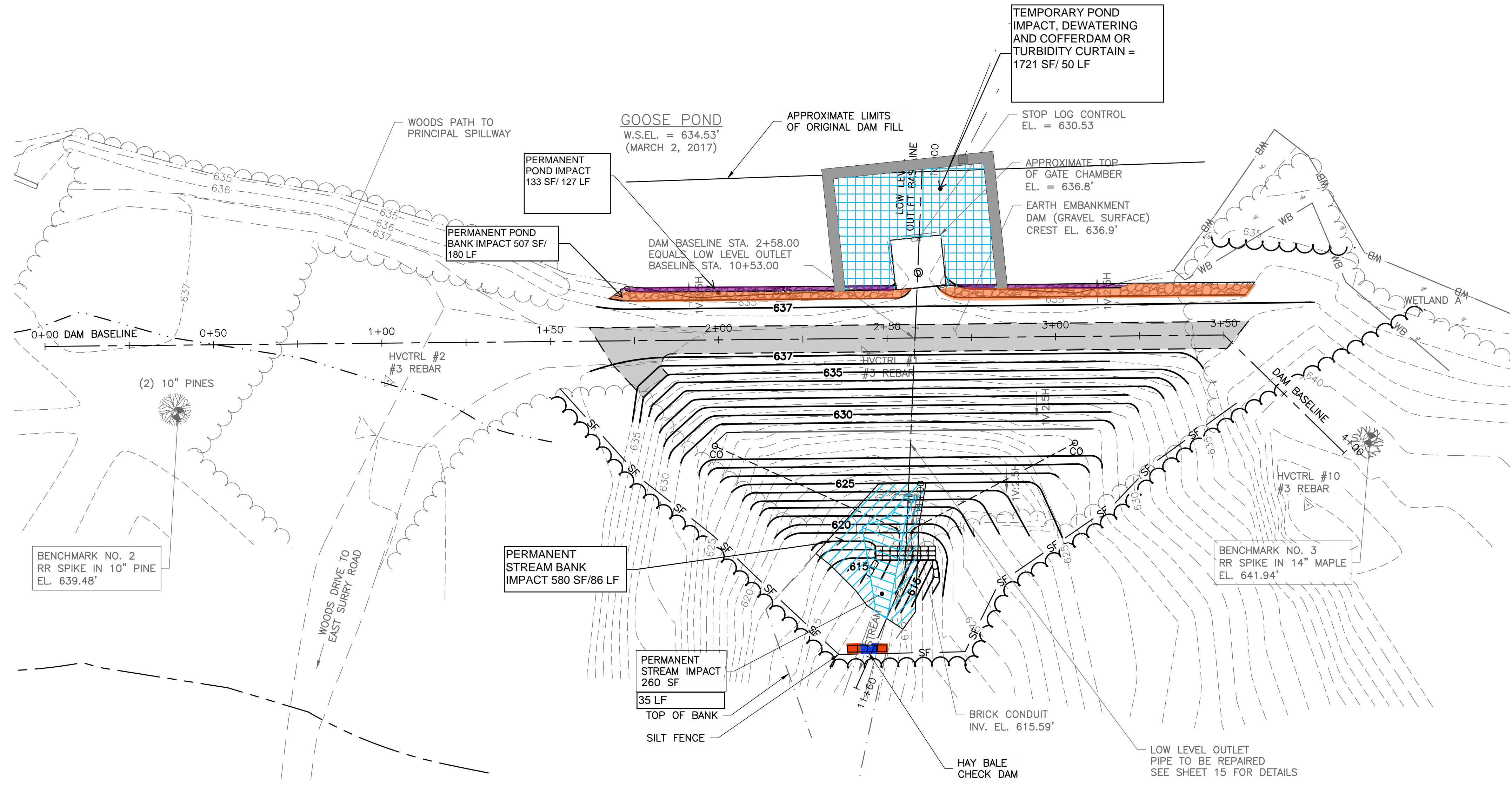
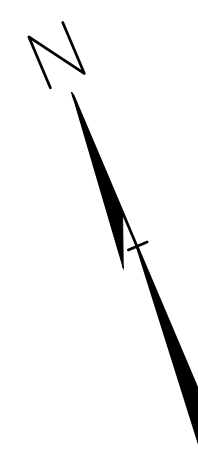
SHEET TITLE

IMPACT PLAN - DAM SITE

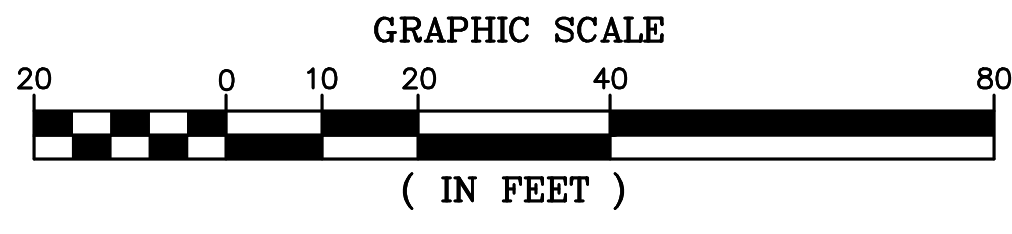
DRAWN BY TJD	DATE JULY 24, 2018
CHECKED BY JWT	D&K PROJECT # 123708
PROJ. ENG. JWT	D&K ARCHIVE #

SHEET NUMBER

1



IMPACT PLAN - DAM SITE



- TEMPORARY STREAM IMPACT = 15 SF/3 LF
- TEMPORARY STREAM BANK IMPACT = 18 SF/3 LF

IMPACT INFORMATION

- PERMANENT STREAM BANK IMPACT = 580 SF/ 86 LF
- PERMANENT STREAM IMPACT = 260SF/ 35 LF
- TEMPORARY POND IMPACT = 1721 SF/ 50 LF
- PERMANENT POND IMPACT = 133 SF/ 127 LF
- PERMANENT POND BANK IMPACT = 507 SF/ 180 LF

NO.	DATE	DESCRIPTION	BY	CK'D



GOOSE POND DAM
IMPROVEMENTS
EAST SURRY ROAD
KEENE,
NEW HAMPSHIRE

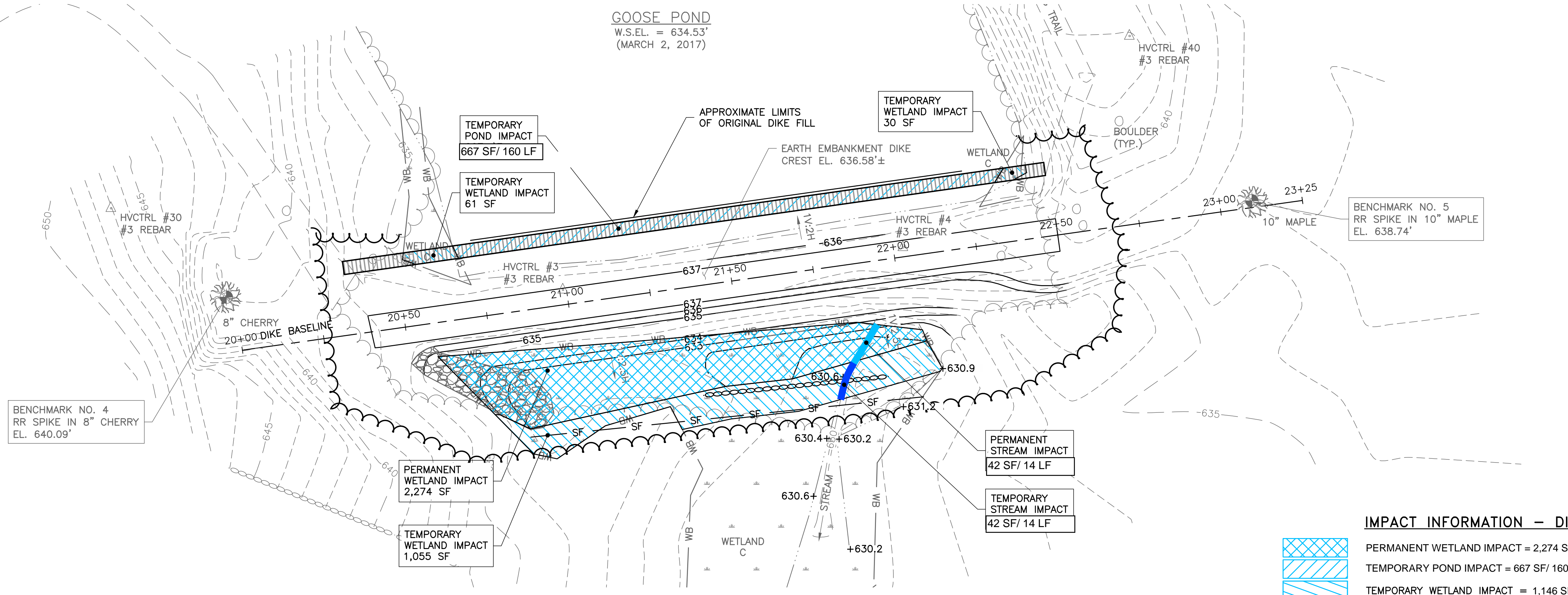
SHEET TITLE
IMPACT PLANS -
DIKE SITE,
VERNAL POOLS A & B
AND
STREAM CROSSING

DRAWN BY TJD	DATE JULY 24, 2018
CHECKED BY	D&K PROJECT # 123708
PROJ. ENG. JWT	D&K ARCHIVE #

SHEET NUMBER

2

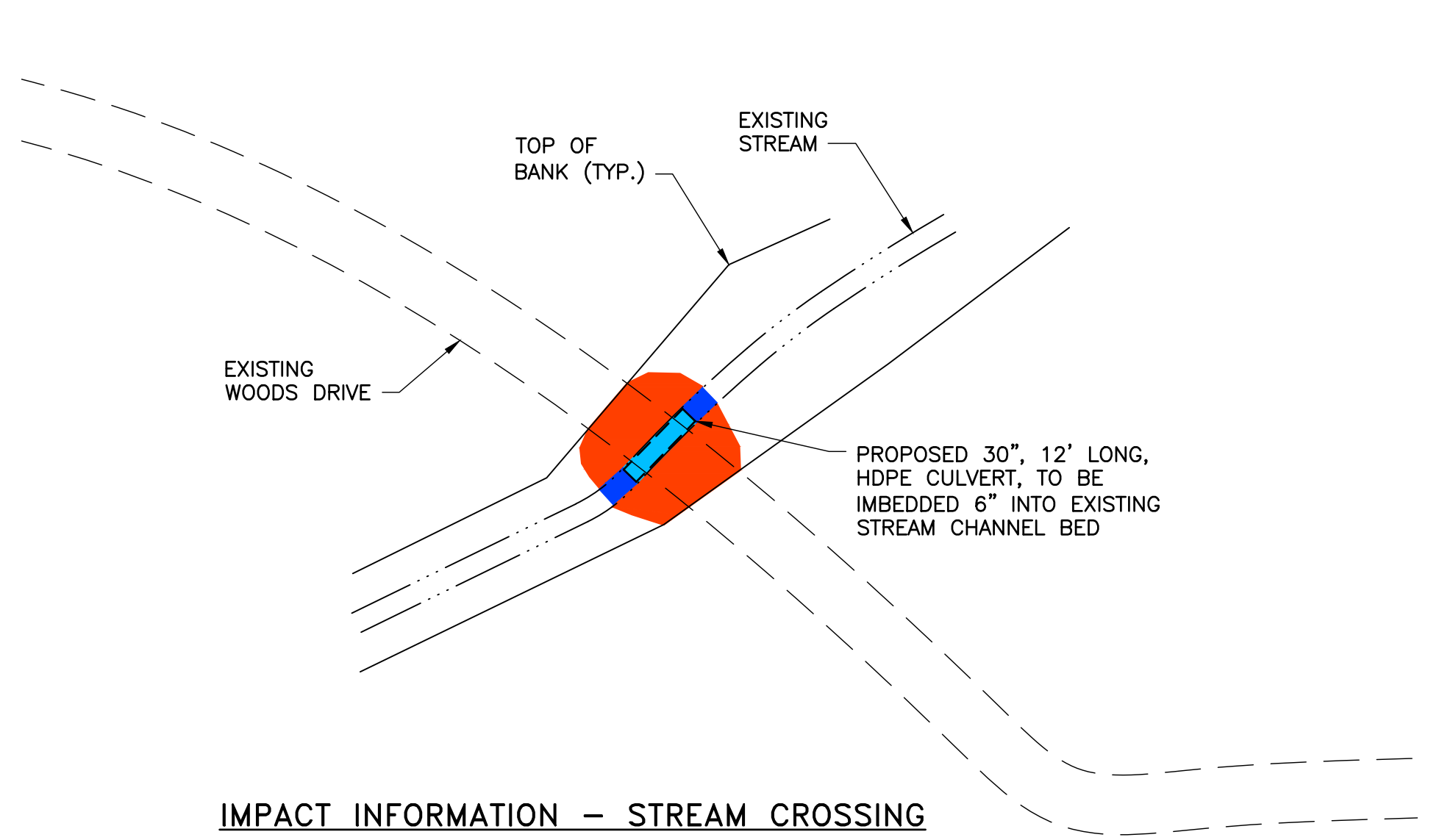
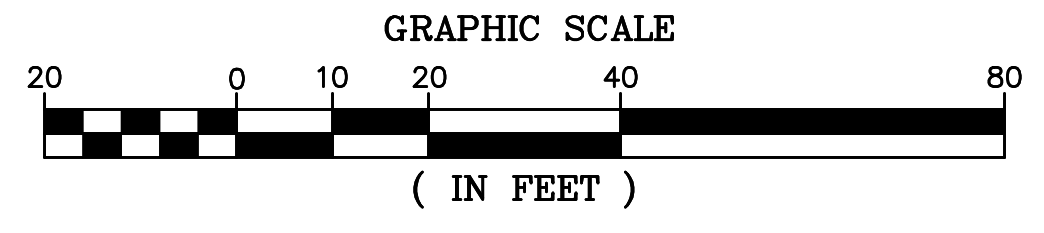
GOOSE POND
W.S.EL. = 634.53'
(MARCH 2, 2017)



IMPACT INFORMATION – DIKE SITE

- PERMANENT WETLAND IMPACT = 2,274 SF
- TEMPORARY POND IMPACT = 667 SF/ 160 LF
- TEMPORARY WETLAND IMPACT = 1,146 SF
- PERMANENT STREAM IMPACT = 42 SF/14 LF
- TEMPORARY STREAM IMPACT = 42 SF/14 LF

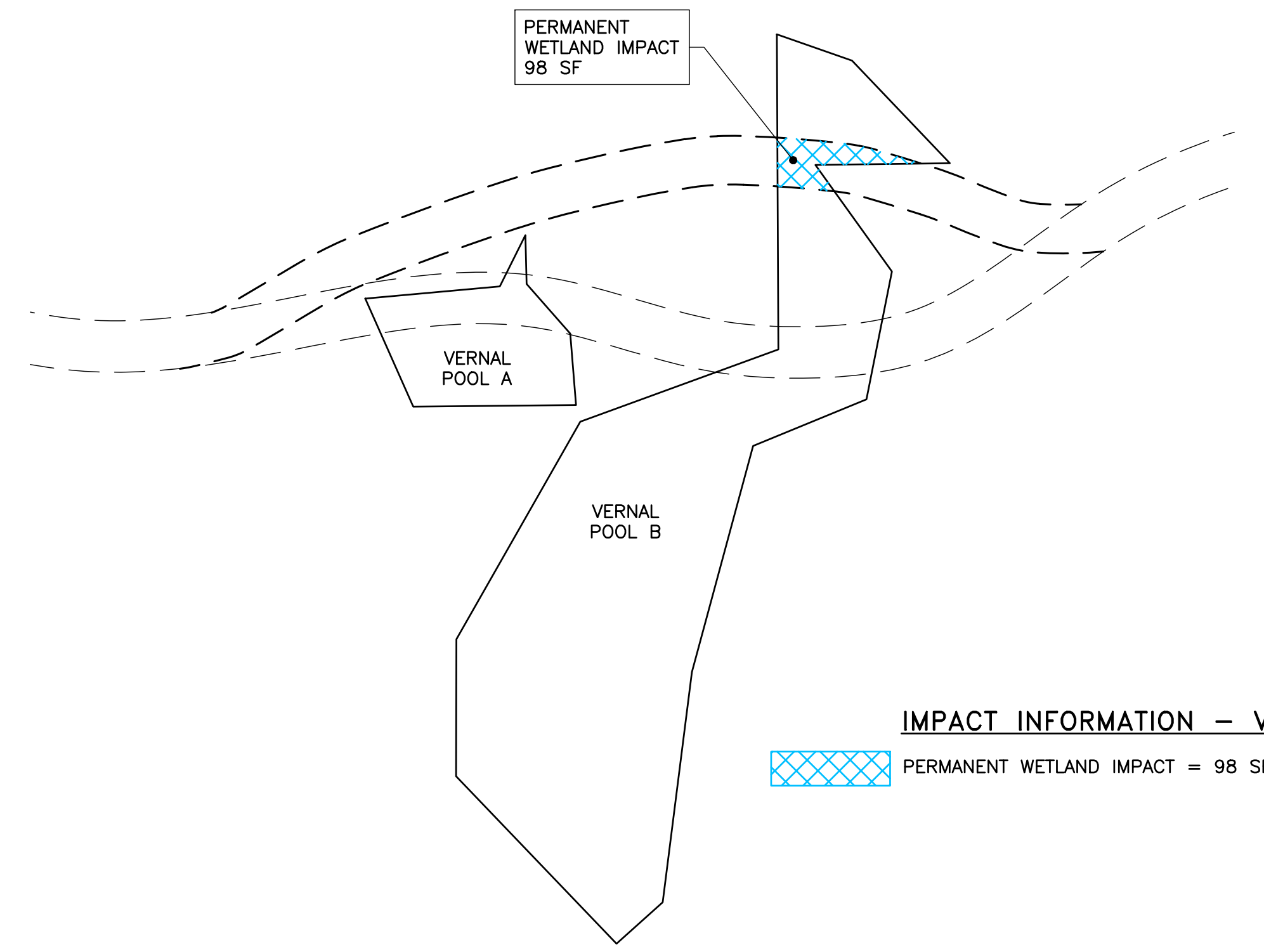
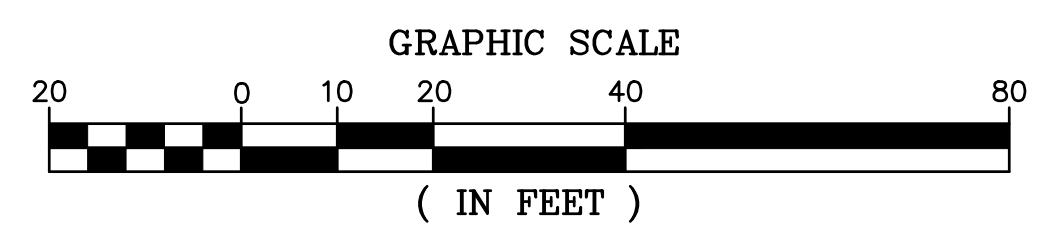
**IMPACT PLAN –
DIKE SITE**



IMPACT INFORMATION – STREAM CROSSING

- PERMANENT STREAM IMPACT = 30 SF/ 12 LF
- TEMPORARY STREAM IMPACT = 15 SF/ 6 LF
- PERMANENT STREAM BANK IMPACT = 108 SF/ 36 LF

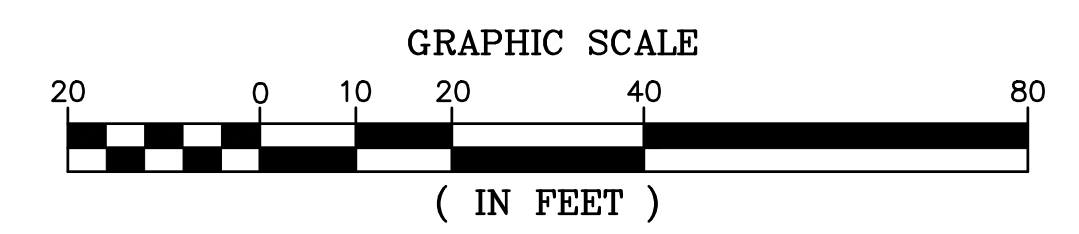
**IMPACT PLAN –
STREAM CROSSING**



IMPACT INFORMATION – VERNAL POOLS

- PERMANENT WETLAND IMPACT = 98 SF

**IMPACT PLAN –
VERNAL POOLS A & B**



I:\A\Tom Drew\123708_goose_pond_dam\Drawn\123708_Wp-2.dwg 7/27/2018 10:50 AM