

Request for Bid: Test Borings- Downings Landing Boat Access Facility, Alton, NH

Scope of Work:

The New Hampshire Fish and Game Department (NHFG) plans to replace existing dock infrastructure at its trailered boat access facility (BAF) in Alton, NH known as Downing's Landing. This Scope of Work was developed to obtain geotechnical data to facilitate design of a replacement dock and ramp system.

The Google Earth/Maps address for Downings Landing is 382 Main Street, Alton, NH. The entrance to the property is immediately west of the intersection of Route 11 and Route 28A (Property Location Map; Attached). No pre-bid meeting is scheduled. The contractor is solely responsible for visiting the site to evaluate and understand the conditions that may affect the bid. The site is open daily to the public.

Please provide a not-to-exceed (Lump Sum) bid to complete the Scope of Work defined below. Bids must be returned to Garret Graaskamp (Statewide Boat Access Program Coordinator) at NHFG by email (garret.graaskamp@wildlife.nh.gov) no later than 1:00 pm (time of receipt) on Wednesday, October 5, 2016. Alternatively, Contractors may deliver a sealed paper copy of the bid to the Fish and Game Department (Garage/ Building 2) located at 17 Hazen Drive, Concord, NH by the 1:00 pm deadline. NHFG will not be responsible for misdirected emails and/or bids not otherwise received by NHFG by the deadline.

The award will be made based on the lowest lump sum bid and capability of the Contractor to satisfactorily complete the project as determined by NHFG. NHFG reserves the right to reject all bids at its sole discretion.

The contractor shall work cooperatively with NHFG to complete the activity promptly after notification to proceed. NHFG anticipates that the project will be scheduled to start sometime between the fourth week of October and the fourth week in November, inclusive, at the sole discretion of NHFG. Firm start and completion dates will be determined at the time of the notification to proceed. The project could start sooner if a mutually acceptable date is agreed to between NHFG and the successful awardee Contractor. NHFG reserves the right to choose a subsequent Contractor if the awardee cannot meet the project schedule.

The Scope of Work to be completed by the Contractor consists of:

A. General Conditions:

1. The work shall be completed during the weekday between 7 am and 6 pm and shall occur so that launching and retrieving of boats at the ramp is not impeded except as otherwise described in this Scope of Work. No work may occur over any weekend or holiday.
2. Contractor is responsible for protecting all facility infrastructure including, but not limited to, the concrete ramp surface, concrete ramp planks, dock abutment and asphalt pavement and for repairing any damage that may occur.
3. The Contractor shall have a valid New Hampshire drilling license with a monitoring well designation according to the NH Water Well Board Rules (We 100-1000).
4. The Contractor shall have a valid state of NH vendor number by the time the contract is signed. A vendor number can be obtained at:
[https://das.nh.gov/purchasing/vendorregistration/\(S\(sb050q45i3e4le45ne15b545\)\)/welcome.aspx](https://das.nh.gov/purchasing/vendorregistration/(S(sb050q45i3e4le45ne15b545))/welcome.aspx)
5. All Contractor personnel shall have appropriate and up to date technical and safety training and certifications necessary to accomplish assigned duties.
6. Contractor shall install, implement and maintain appropriate effective sediment control methods and structures to prevent runoff and sediment from impacting the Downing's Landing property, off-site properties and/or Lake Winnepesaukee. This specifically includes, but is not limited to, deploying a turbidity curtain around boreholes B-4 and B-5 to contain any drill cuttings or sediment disturbed during the drilling and sampling process.
7. Contractor shall clean up and restore the project area to pre-project existing conditions at the completion of drilling. This includes patching concrete slabs with concrete and reinstalling decking if removed for boring access.
8. Dig Safe clearance for the work site shall be obtained by the Contractor.

B. Proposed Subsurface Investigation

1. Five (5) boreholes are proposed for completion to satisfy the project Scope of Work. Their locations (B-1, B-2, B-3, B-4, B-5) are shown on the attached Borehole Location Plan (the Plan).
2. The area of B-1, B-2 and B-3 is believed to be underlain by uncontrolled fill materials. The Contractor should be prepared to advance the borings through obstructions including cobbles, boulders, wood timbers and logs.
3. Borings B-1, B-2, and B-3 are located on land along the shore in the southwestern portion of the property. The locations of these borings will be staked by others. The Contractor shall locate and drill the boreholes directly over the staked locations.
4. Borings B-4 and B-5 are located 20 and 50 feet from the shoreline along the approximate center line of a proposed new floating dock. The borehole locations will be marked by others on the dock deck located on the south side of the ramp. The Contractor may set up (option 1) on the dock deck to drill the borehole through the dock by removing deck planks or (2) may drill the borehole immediately adjacent to the dock from the (option 2a) dock deck or (option 2b) from a barge next to the dock. The boreholes shall not be located on the north side of the dock or at locations that would damage the ramp structure.
5. For reasons of public safety, NHFG will close the ramp when boreholes B-4 and B-5 are being completed. The Contractor will have up to two (2) days to complete boreholes B-4 and B-5. The Contractor will work cooperatively with NHFG to schedule this date so that adequate advanced notice can be made to the public.
6. Contractor shall determine to his/her satisfaction the appropriateness of the set up to drill boreholes B-4 and B-5 and the suitability of using the dock deck in any fashion to complete the project. NHFG does not certify or warranty in any way that the dock deck is a satisfactory surface on which to conduct and complete the drilling and sampling process for boreholes B-4 and B-5.

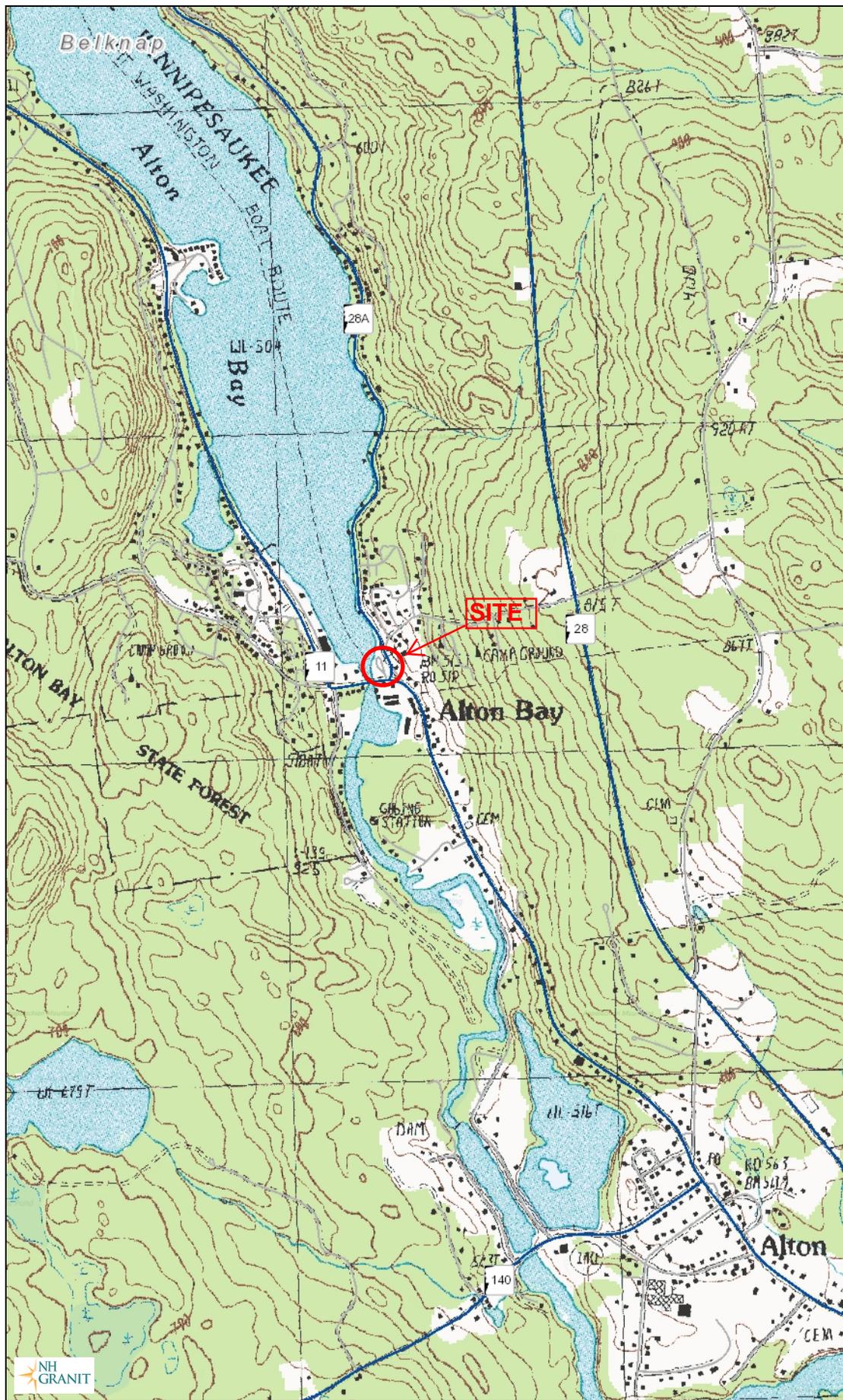
C. Drilling and Sampling Protocol

1. Standard Penetration Test (ASTM 1586-11) and Soils Classification shall be performed using the Unified Soil Classification System for all borings. The Contractor shall provide all equipment in good operating condition necessary to satisfactorily perform and complete the project under these standards.
2. Boreholes B-1, B-2 and B-3 shall be drilled to a depth of 20 feet below the ground surface or to refusal defined as 100 blows per 6-inches of penetration or partial increment. Split-spoon samples shall be collected continuously from the surface to the total depth of the borehole.
3. Boreholes B-4 and B-5 shall each be drilled to a depth of 27 feet below the mud-line or to refusal defined as 100 blows per 6-inches of penetration or partial increment. Two foot long split-spoon samples shall be collected at five-foot intervals from the mud-line to the total depth of the borehole (i.e., 0-2 ft., 5-7 ft., 10-12 ft., 15-17 ft., 20-22 ft. and 25-27 ft.)
4. If refusal is not encountered in borehole B-5 by the 27 foot target split spoon sampling depth, the boring shall be advanced as an auger probe through the sediment to refusal or a total lake sediment thickness of 50 feet below the mud-line, whichever occurs first. No sediment sampling will be required for this portion of the drilling.
5. The Contractor shall tally the blow counts for each 6-inch penetration interval or partial increment of the split-spoon sampler and shall report the counts to the Engineer who will then record the information on the field log. The actual length of the recovered split spoon sample shall be reported by the Contractor to the Engineer who will record the value on the field log for each split spoon sample interval.
6. Each split-spoon sample shall be collected by the Contractor and provided to the Engineer at the logging location. The Engineer will log the soil/sediment sample using the Unified Soil Classification System. The Contractor shall work cooperatively with the Engineer to ensure that the sampling and logging activities take place efficiently and optimize the collection and recording of valid and representative soil/sediment data.
7. The Contractor shall have appropriate sampling equipment available on site in the event that a significant layer of soft clay is encountered, then the driller shall take, only at the direction of the Engineer, an undisturbed soil/sediment sample of that clay layer from one of the borings for potential use in subsequent testing and analysis if required. Clay sample testing and analysis is not included in the scope at this time, and shall not be performed unless specifically directed by the Engineer in writing.

8. The Contractor shall backfill each of the “on-land” borehole (i.e., B-1, B-2 and B-3) at the time of completion with drill cuttings/spoils to prevent the opportunity for direct flow of surface water into the subsurface through the borehole.

<END>

DOWNING'S LANDING - ALTON, NH



Legend

- State
- County
- City/Town
- Interstates
- Turnpikes
- US Routes
- State Routes
- Local Roads

Map Scale

1: 17,403

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Map Generated: 2/5/2016



Notes



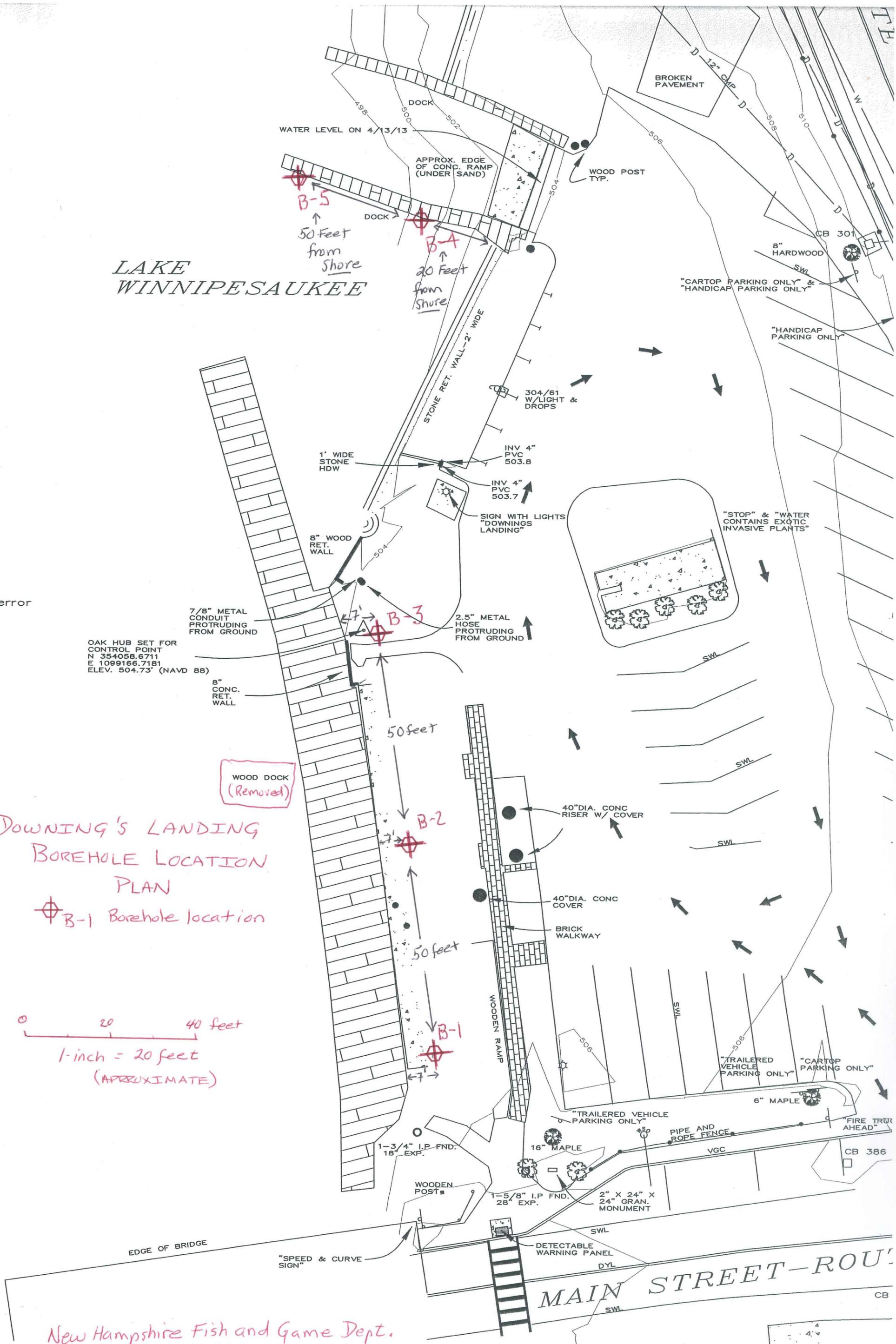
LAKE WINNIPESAUKEE

OAK HUB SET FOR CONTROL POINT
 N 354058.6711
 E 1099166.7181
 ELEV. 504.73' (NAVD 88)

DOWNING'S LANDING
 BOREHOLE LOCATION
 PLAN

⊕ B-1 Borehole location

0 20 40 feet
 1-inch = 20 feet
 (APPROXIMATE)



New Hampshire Fish and Game Dept.
 Sept 9, 2016