

# Warner's Pond 2022 Dredging Bid Review

Keith Hannon, PWS

US Army Corps of Engineers

*Navigation, Coastal & Environmental Planning Section*

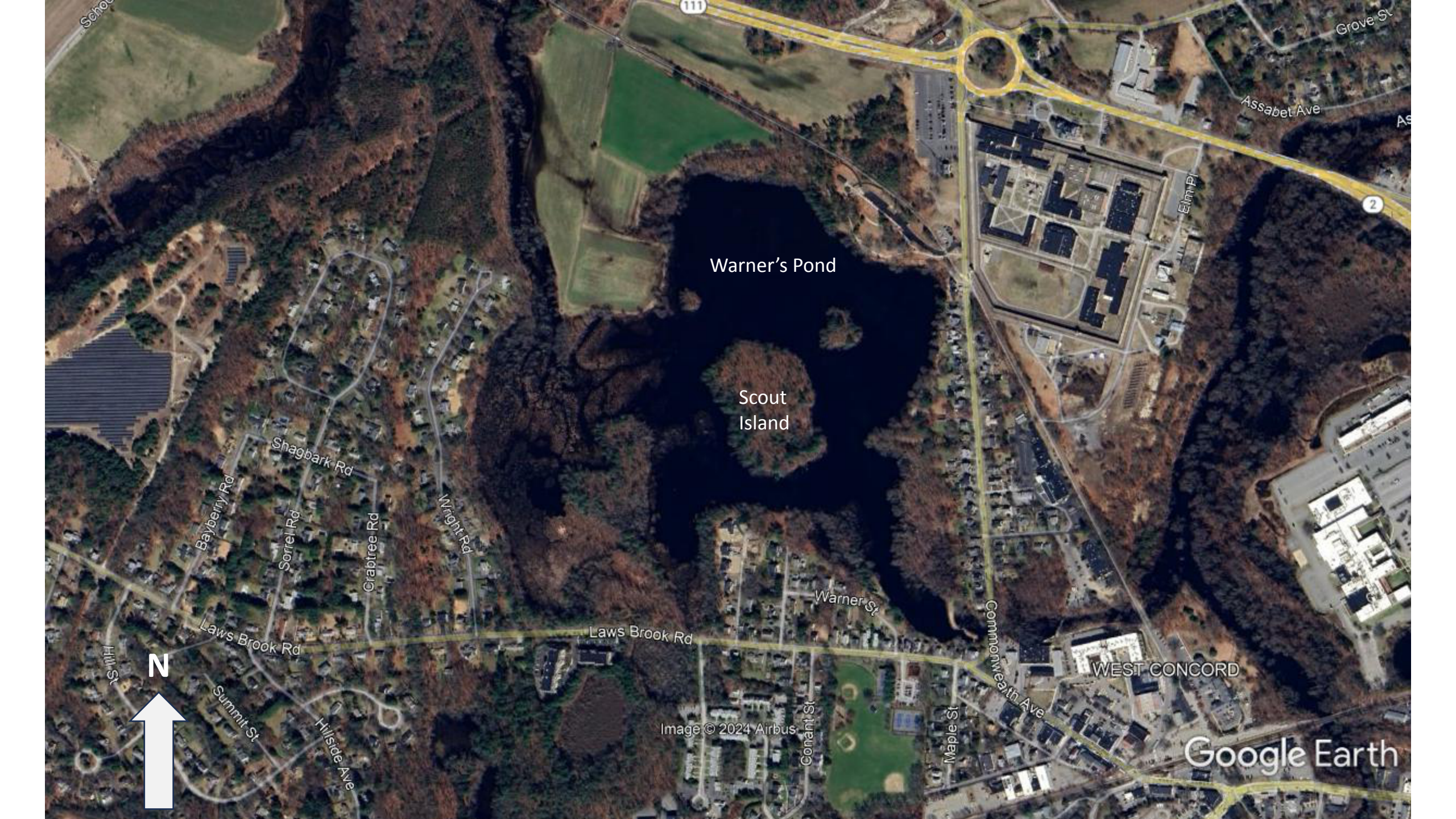
Friends of Warner's Pond Representative

Warner's Pond Task Force

May 9, 2024

# 2022 Warner's Pond Dredging Bid Received

- **Brief Background Summary**      **August 2022**
  - All necessary/required permits for dredging obtained & in-hand
  - Only one dredging contractor submitted the only documented bid
  - Bid = **\$9,543,700**
  - **High bid led to:**
    - dredging plan brought to a halt
    - new alternative dam removal planning began
    - the creation of the Warner's Pond Task Force



Warner's Pond

Scout Island

WEST CONCORD

Google Earth

Image © 2024 Airbus



School

Grove St

Assabet Ave

2

Elm Pl

Warner's Pond

Scout Island

Bayberry Rd

Shagbark Rd

Sorrel Rd

Crabtree Rd

Wright Rd

Laws Brook Rd

Laws Brook Rd

Warner St

Commonwealth Ave

Hill St

Summit St

Hillside Ave

Conant St

Maple St



# Dredging Options

## 1. Hydraulic dredging

- Dredged slurry ~80% water
- <https://www.youtube.com/watch?v=hEXnDIgsNMU>

## 2. Mechanical dredging

Both methods require dewatering of dredged material to occur (if placed in an upland area) before transport or as part of final placement of dredged material












# Warner' Pond Dredge Plan



- May 2022, dredging project received all required permits from Concord NRC and MA DEP
  - Hydraulically dredge **35,750** cubic yards from North & South dredge areas
  - Dewater dredged material
  - Dispose of dredged material on minimum security prison property
  - Build a 1-acre wetland shelf (~4,470 cu yds) N side of Scout Island
  - Improve existing Comm Ave boat launch

## **Warner's Pond Dredging Bid Review**

- Request for Proposal (RFP)
- 2022 Dredging 100% Design Plan Set
- Details of One Bid Received
- Alternative Dredging Plan not Pursued

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- [2023 Alternatives Analysis Report](#)
- [Envision Concord - A Bridge to 2030](#)
- [Memo on Warners Pond Conservation Status](#)
- [Warners Pond Herbicide Treatment Report](#)

### Warner's Pond Dredging Bid Information

- [Warners Pond Construction Cost Estimate - FINAL](#)
- [Warners Pond Contract Documents and Specifications](#)
- [Warners Pond Dredging Planset](#)
- [Warners Pond Restoration Project Addendum No. 1](#)
- [IFB 2243 - Bid Price Form - Charter Contracting](#)

### Dam Removal Information

- [Undamming Rivers - A Review of the Ecological Impacts of Dam Removal](#)
- [The Ecology of Dam Removal](#)



Warner's Pond March through October, 2023.

(Source: NearMap)

generations, is in a state of eutrophication, which has resulted in a number of undesirable conditions including decreased water depths, widespread growths of aquatic invasive plants, and impaired recreational opportunities. For several years, the Town pursued a limited dredging project (6 acres of the 54-acre pond) to improve the ecological health and recreational opportunities at the pond. In August 2022, with permits in hand, the project was put out to bid. One bid was received, coming in more than three times higher than the funds allocated for the project. The Division then had an [Alternatives Analysis Report](#) developed to evaluate modified dredging, dam removal, and no action. This report recommended dam removal as the Preferred Alternative, which is a change in strategy from dredging. Based on community feedback, the Natural Resources Commission has established this Task Force to review alternatives, explore any other feasible options, and recommend a course of action forward. The task force is made up of 11 voting members and five ex officio representatives, and will be led by facilitators Toby Berkman and Rachel Freed from the [Consensus Building Institute](#).

### Committee Charge

[View Committee Charge](#)

### Members

Name	Representation
Vickie Alani	Upstream abutter
Paul Boehm	Recreation Commission
Malcolm Bryant	At-large
Jeff Collins	OARS
Christine Denaro	Downstream abutter
Keith Hannon	Friends of Warner's Pond
Mark Howell	Select Board
Bill Kemeza	Natural Resources Commission

# Warner's Pond Task Force Webpage

**WARNER'S POND RESTORATION  
PROJECT**

**Contract No. 2243**

**CONTRACT DOCUMENTS  
&  
SPECIFICATIONS**



Division of Natural Resources  
Department of Planning and Land Management  
141 Keyes Road  
Concord, Massachusetts 01742  
(978) 318-3285

**August 8, 2022**

- Request for Proposal (RFP)
- Date: August 8th, 2022
  - Concord posts an RFP for a “Warner’s Pond Restoration Project”

TOWN OF CONCORD  
 REQUEST FOR BID DOCUMENTS  
 WARNER'S POND DREDGING  
 BID #2243

**IMPORTANT** Please read carefully.

Note: If the chosen vendor is a "new" vendor or one that has not been used by the Town for a period of time, the "Remit To" [payment] address and Tax Payer Identification Number must be obtained in order for them to be entered into the Town's accounting software. If the quote is for construction OR building maintenance of any type, we must identify if the vendor is a Sole Proprietor. If they are not, we need to know if they pay the Prevailing Wage Rate set by the State. For a building construction or maintenance project, the 3 quote process can only be used to projects estimated to be less than \$10,000. Otherwise, different procedures apply.

Description of supplies or services:

See Attached Request for Bid description

DATE BID DOCUMENTS REQUESTED	VENDOR NAME/ADDRESS	CONTACT	TELEPHONE	EMAIL	PRICE QUOTED
8/10/2022	Charter Contracting Company Boston, MA	Lisa Arseneault	857-248-6836	<a href="mailto:larseneault@charter.us">larseneault@charter.us</a>	1
8/10/2022	SumCo Ecocontracting 2 Centennial Drive Peabody, MA 01960	Travis Sumner	978-744-1515	<a href="mailto:tsumner@sumcoeco.com">tsumner@sumcoeco.com</a>	
8/11/2022	E.T. & L. Corp. 873 Great Road Stow, MA 01775	Jamie McCabe Jim Murray	978-897-4553	<a href="mailto:jmccabe@eticorp.com">jmccabe@eticorp.com</a>	
8/11/2022	A.A. Will Corporation 145 Island Street Stoughton, MA 02072	Mike Brooks	817-694-0539	<a href="mailto:mbrooks@awill.com">mbrooks@awill.com</a>	
8/11/2022	MIG Corp. One Action Place Acton, MA 01720	Katheryn Guarasaca	978-264-4800	<a href="mailto:kguarascaca@migcorporation.com">kguarascaca@migcorporation.com</a>	
8/11/2022	Dredge America, Inc. 9555 NW Highway N Kansas City, MO 64153	Anna Robinson	816-330-3100	<a href="mailto:anna@vredgeamerica.com">anna@vredgeamerica.com</a>	
8/11/2022	ConstructConnect	Sarah Torres	923-602-5079 x7930	<a href="mailto:sarah.torres@constructconnect.com">sarah.torres@constructconnect.com</a>	
8/16/2022		Jonathan Ditter	613-458-8951	<a href="mailto:jonathan.ditter@constructconnect.com">jonathan.ditter@constructconnect.com</a>	
8/11/2022	Projectdog, Inc. 18 Graf Road #8 Newburyport, MA 01950		978-409-0014	<a href="mailto:adenda@projectdog.com">adenda@projectdog.com</a>	
8/12/2022	Allied Solution Enterprise 300 Veterans Way Carmel, IN 46032	Jason Collier	877-328-4432	<a href="mailto:contracts@alliedsolutionenterprise.com">contracts@alliedsolutionenterprise.com</a>	
8/15/2022	Lucianos Excavation, Inc. 41 Taunton Green Taunton, MA 02780	Mike Rose	508-386-9258	<a href="mailto:mrose@l-enc.com">mrose@l-enc.com</a>	
8/15/2022	T Ford Company 124 Tenney Street Georgetown, MA 01853	Bill Peach	978-352-5606	<a href="mailto:bill@tford.com">bill@tford.com</a>	
8/12/2022	Edward Paige Corp. P.O. Box 5067 Norwell, MA 02061	Timothy J. Calabrese	617-935-3488	<a href="mailto:tcababrese@edwardpaige.com">tcababrese@edwardpaige.com</a>	
8/15/2022	Argus Construction Corp. 5 Shawzheen Avenue, Unit #2 Bedford, MA 01730	Peter Saiem	781-275-7417	<a href="mailto:peter@argusconstructioncorp.com">peter@argusconstructioncorp.com</a>	
8/16/2022	Horsley Whitten Group, Inc. 90 Route 5A, Unit #1 Sandwich, MA 02563	Danielle Mendes	508-833-6600	<a href="mailto:dmendes@horsleywhitten.com">dmendes@horsleywhitten.com</a>	
8/15/2022	R. Zoppo Corp. 160 Old Maple St. Stoughton, MA 02072	Alissa Romano	781-344-8822	<a href="mailto:aromano@zoppo.com">aromano@zoppo.com</a>	
8/16/2022	Flynn Enterprise Inc. 1729 Broadway, Unit 3 Raynham, MA 02767	Paulo Medeiros	774-501-3152	<a href="mailto:paulo@flynnwork.com">paulo@flynnwork.com</a>	
8/16/2022	BidPrime, Inc. 2211 South Interstate 35 Austin, TX 78741	Justin Tanner	888-808-5356	<a href="mailto:jtanner@bidprime.com">jtanner@bidprime.com</a>	

• **17 companies** showed interest in dredging Warner's Pond for the Town of Concord & Requested Bid Documents (RFP) between: Aug 10-16, 2022

- Charter
- SumCo
- ET&L
- AA Will Corp
- MIG Corp
- Dredge America Inc
- ConstructConnect
- Projectdog Inc
- Allied Solution Enterprise
- Lucianos Excavation Inc
- T Ford Company
- Edward Paige Corp
- Argus Construction Corp
- Horsley Whitten Group
- R Zoppo Corp
- Flynn Enterprise
- BidPrime Inc

Contract #2243 Bid Form					
Town of Concord Warner's Pond Restoration Project					
ITEM NO.	QUANTITY	UNIT	BASE BID		
			ITEM DESCRIPTION WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	
1		LS	Mobilization/Demobilization AT _____ Per Lump Sum		
2		LS	Temporary Erosion and Sedimentation Controls AT _____ Per Lump Sum		
3		LS	Commonwealth Avenue Access Improvements AT _____ Per Lump Sum		
4		LS	Site Restoration AT _____ Per Lump Sum		
5		LS	Wetland Shelf Planting AT _____ Per Lump Sum		
6		LS	Invasive Species Removal AT _____ Per Lump Sum		
7	5,000	CY	Dredging North Dredge Area AT _____ Per Cubic Yard		
8	30,800	CY	Dredging South Dredge Area AT _____ Per Cubic Yard		
9	2	TN	Debris Removal AT _____ Per Ton		
10	32,000	CY	Processing Dredge Material AT _____ Per Cubic Yard		
11	4,470	CY	Wetland Shelf Creation AT _____ Per Cubic Yard		
12	6	TN	Transportation and Disposal of Contaminated Material AT _____ Per Ton		
13	400	TN	Loam AT _____ Per Ton		

# Contract RFP: Bid Form

- Page 14
- **Line Item #7:** 5,000 CY North Dredge Area
- **Line Item #8:** 30,800 CY South Dredge Area
- **Line Item #10:** Processing Dredge Material (dewater), 32,000 CY
- **Line Item #11:** Wetland Shelf Creation, 4,470 CY
- **Line Item #12:** Transport and Disposal of Contaminated Dredge Material

PART 1 – GENERAL

1.01 GENERAL REQUIREMENTS

- A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 1 - GENERAL REQUIREMENTS, which are hereby made a part of this Section of the Specifications.
- B. Examine all other Sections of the Specifications for requirements, which affect work of this Section whether or not such work is specifically mentioned in this Section.
- C. Coordinate work with that of all other trades affecting or affected by work of this Section. Cooperate with such trades to assure the steady progress of all work under the Contract.
- D. The requirements of this Section shall apply only to Work located at the Massachusetts Department of Correction Northeastern Correctional Center located on Barretts Mill Road in Concord, Massachusetts. Work at this location includes hauling and disposal of dredged and dewatered pond sediments.

1.02 REQUIREMENTS INCLUDED

- A. Institutional Security and Regulations
- B. Construction Detail Security Staff
- C. Request For Entrance
- D. Entrance Procedures
- E. Photo Identification
- F. Vehicles
- G. Construction Materials And Waste
- H. Lunches
- I. Contact with Inmates
- J. Tool Classification
- K. Tool Storage
- L. Shadowing
- M. Lost or Found Tools
- N. Control of Flammable And Hazardous Materials

1.03 INSTITUTIONAL SECURITY AND REGULATIONS

- A. The work of this project occurs within the buildings and on the grounds of a penal institution.
- B. The Superintendent of each Institution is the official responsible for the security of the Institution and has the authority to determine and/or approve all contract operations, schedules and procedures that may, in his/her opinion, affect the security of the Institution. The Superintendent may designate another staff member to exercise this authority.

# Contract RFP Requirements

- **Prison Access Restrictions**

- Page 159, Part 1

- 1.03.C

C.

No person convicted of a felony shall be employed on this project without the express permission of the Commissioner of Correction or the Institution Superintendent.

- B. The Contractor shall meet, on a weekly basis, or more often if required, with the security staff to outline proposed project activities for the following week which may affect institutional security, and operational logistics

#### 1.05 REQUEST FOR ENTRANCE

- A. Prior to any Contractors working at a Department of Correction Institution, the contracting company must submit a "*Contractors Clearance for Entry*" request form to the DOC project manager.
- B. The project manager, or his designee, will be responsible to coordinate security checks on all Contractors requesting to enter the work area.
- C. Per MGL chapter 127, Section 37, the Superintendent may refuse admission to a person who has prior permission, if in the Superintendent's opinion, such admission would be injurious to the best interest of the Institution.
- D. The project manager or his designee will prepare an "approved to enter" list of all outside contractors. Copies of the approved list will be sent to the contracting company.
- E. A Contractor must notify the project manager and the Institution prior to entry if he/she has any relations incarcerated at the Institution.

#### 1.06 ENTRANCE PROCEDURES

- A. All workers shall enter and exit the Institution at designated times, and only at the authorized access points. All workers must sign the gate register each day upon entering the Institution.
- B. All workers are responsible to obey security regulations and instructions of security staff at all times, including but not limited to the following:
1. Give their correct full name and current address.
  2. State if they have been convicted of a felony. If so, they cannot enter the work area without permission from the Superintendent.
  3. State their legitimate reason for requesting entrance to the work site.
  4. Because of inmate dress codes, dungarees are not allowed in the work areas. Workers must comply with the Institutional dress code.
  5. The Contractor's employees, vehicles and belongings are subject to being searched at any time while on state property.

# Contract RFP Requirements

## • Prison Access Restrictions Continued

### Section 1.05 Request For Entrance

- 1.05.B – The MA DOC project manager will coordinate “security checks (i.e., background checks) on Contractors requesting to enter work area”
- 1.06.B.2 – If convicted of felony cannot enter prison property
- 1.06.B.4 – dredge contract employees cannot wear jeans (dungarees) when entering the prison

**ANY KIND, POCKETKNIVES (if not used for job), AMMUNITION OR EXPLOSIVES, ILLEGAL DRUGS, PRESCRIPTION DRUGS, ALCOHOLIC BEVERAGES, FLARES OR FIRE EXTINGUISHERS.**

- C. The security staff will be responsible to ensure that all workers show proper photographic identification (driver's license, passport or welfare card). Only the Superintendent or his/her designee may make exceptions to this requirement.

1.07 PHOTO IDENTIFICATION

- A. Every employee under this contract shall, if requested, permit his photograph and fingerprints to be taken by the Institution authorities, so that persons entering or leaving correctional institutions can be properly identified.
- B. There will be a board located at the authorized entry point that will be utilized to store two photos of all workers scheduled to work in the work area. One photo will be utilized as an ID; the other will be mounted to the board.
- C. The security staff will be responsible for issuing the photo ID to each construction worker after they have been identified and have completed the process. Workers are required to wear the ID while en route to and from the construction site. While at the site, they must have it on their person and produce it for security staff upon request.

1.08 VEHICLES

- A. All Motor vehicles and equipment, including company and private employee's vehicles, shall be parked at designated places only, as assigned by the security staff, and shall be kept locked at all times. The security staff will retain the keys, while vehicles are parked inside the institution.
- B. **Motor Vehicles and Equipment are subject to being searched at any time while on state property.**
- C. All vehicles, including motorized construction equipment (such as excavators, loaders, pavers, and cranes to name a few) must be moved outside the institution at the end of each day. This requirement may be waived only by an express permission of the Superintendent if the equipment is too slow to transport in and out on a daily basis, such as a large crane, and only if the equipment can be positively disabled to the satisfaction of the Superintendent (i.e. by removing a simple, but critical component each day to be brought outside).

1.09 CONSTRUCTION MATERIALS AND WASTE

- A. Building materials that are considered to represent a security risk to the Institution, and that are movable, shall be stored outside the Institution at the designated staging areas.

# Contract RFP Requirements

- **Prison Access Restrictions Continued**
  - 1.07.A — Photo Identification and ID requirements for each dredging contract employee
  - 1.08.B — Vehicle searches
  - Additional restrictions include providing tool inventory and tool inspection every time a contractor vehicle leaves the DOC property
- **Overall, 19 pages of prison access restrictions in the RFP**

PART 1 – GENERAL

1.1 SUMMARY

- A. This section includes Contractor requirements for segregating and dewatering excavated soil and dredged sediment, to maximize solids content for disposal to an appropriate disposal facility.
- B. Contractor shall install a solids processing system as depicted on the Drawings, or Engineer-approved equal, and as set forth in this specification.
- C. Contractor shall be responsible for the construction, operation, maintenance, and performance specifications as noted in Drawings and Technical Specifications.

1.2 PERFORMANCE REQUIREMENTS

- A. Contractor shall be responsible for the selection, design, furnishing, construction, installation, commissioning, testing, operation, maintenance, and performance of the solids processing system and all equipment, materials, containment and staging areas, access ways, and other supporting features necessary to complete the Work specified herein.
- B. Contractor may select to complete the dewatering Work by methods including, but not limited to, the following:
  - 1. Geotextile tubes
- C. Other means of dewatering solids may be proposed in the Contractor's Dredge Work Plan, but not executed until work plan approval. If other means of dredging in the Contractor's Dredge Work Plan are approved by the Engineer, the requirements of this specification will apply.
- D. Contractor is responsible for providing solids processing activities that dewater the solids to a state of passing EPA's paint filter method. The dewatering process shall eliminate all free liquids from solids prior to loading for disposal and shall provide any additional solids processing using a combination of additional dewatering. Failure to meet Engineer approved dewatering criteria shall result in a modification to the Contractor's means and methods to achieve acceptable conditions at no additional cost to the Town.
- E. Contractor may select to complete the dewatering liquid outflow filtration by methods including, but not limited to, the following:
  - 1. Sediment filter bags
  - 2. Haybale corrals
- F. Other means of dewatering liquid filtration may be proposed in the Contractor's Dredge Work Plan; but not executed until work plan approval. If other means of filtration are approved by the Engineer, the requirements of this specification will apply.
- G. Geotechnical information about the existing soils and sediment is provided with these Contract Documents.

# Contract RFP Requirements

## • Dewatering

- Page 187, Sec 1.2.B

*“Contractor may select to complete dewatering Work by methods including, but not limited to, the following:*

*1. Geotextile tubes”*

- *Typical dewatering method, but other methods exist*
- Are geotubes the cheapest option for Warner's Pond?

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- Alternative Dredging Plan not Pursued



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BIDS & PROPOSALS



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### Members

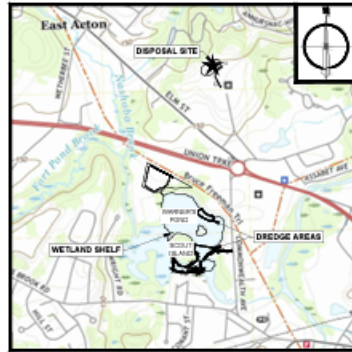
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# Warner's Pond Task Force Webpage

# TOWN OF CONCORD WARNER'S POND RESTORATION PROJECT 100% DESIGN PLAN SET CONCORD, MASSACHUSETTS



LOCATION MAP  
SCALE: 1" = 1 MILE



VICINITY MAP  
SCALE: 1" = 1/2 MILE

Aug 2, 2022



**PREPARED FOR  
TOWN OF CONCORD  
DIVISION OF NATURAL RESOURCES  
141 KEYES ROAD  
CONCORD, MASSACHUSETTS**

SHEET LIST		
DRAWING NO.	SHEET NO.	DRAWING TITLE
G-001	1	TITLE SHEET
G-002	2	GENERAL NOTES AND LEGEND
C-101	3	EXISTING CONDITIONS PLAN
C-102	4	PROPOSED DREDGING PLAN - SOUTH AREA
C-103	5	PROPOSED DREDGING PLAN - NORTH AREA
C-104	6	PROPOSED WETLAND SHELF
C-105	7	DREDGE MATERIAL MANAGEMENT PLAN
C-106	8	DEWATERING PLAN
C-107	9	DREDGE MATERIAL DISPOSAL SITE
C-108	10	RESTORATION PLAN
C-109	11	COMMONWEALTH AVE ACCESS IMPROVEMENTS
C-201	12	CROSS SECTIONS
C-201	13	DETAILS

TOWN OF CONCORD  
WARNER'S POND RESTORATION PROJECT  
CONCORD, MASSACHUSETTS  
TITLE SHEET



**EA**  
EA Engineering, Science,  
and Technology, Inc., PBC  
561 Main Center Blvd, Suite 102  
Warwick, Rhode Island 02886  
(401) 735-3443  
www.eaet.com

SCALE: AS SHOWN  
FULL SIZE PLOT: 36" x 36"  
DATE: AUGUST 2022  
PROJECT NUMBER: 6373001

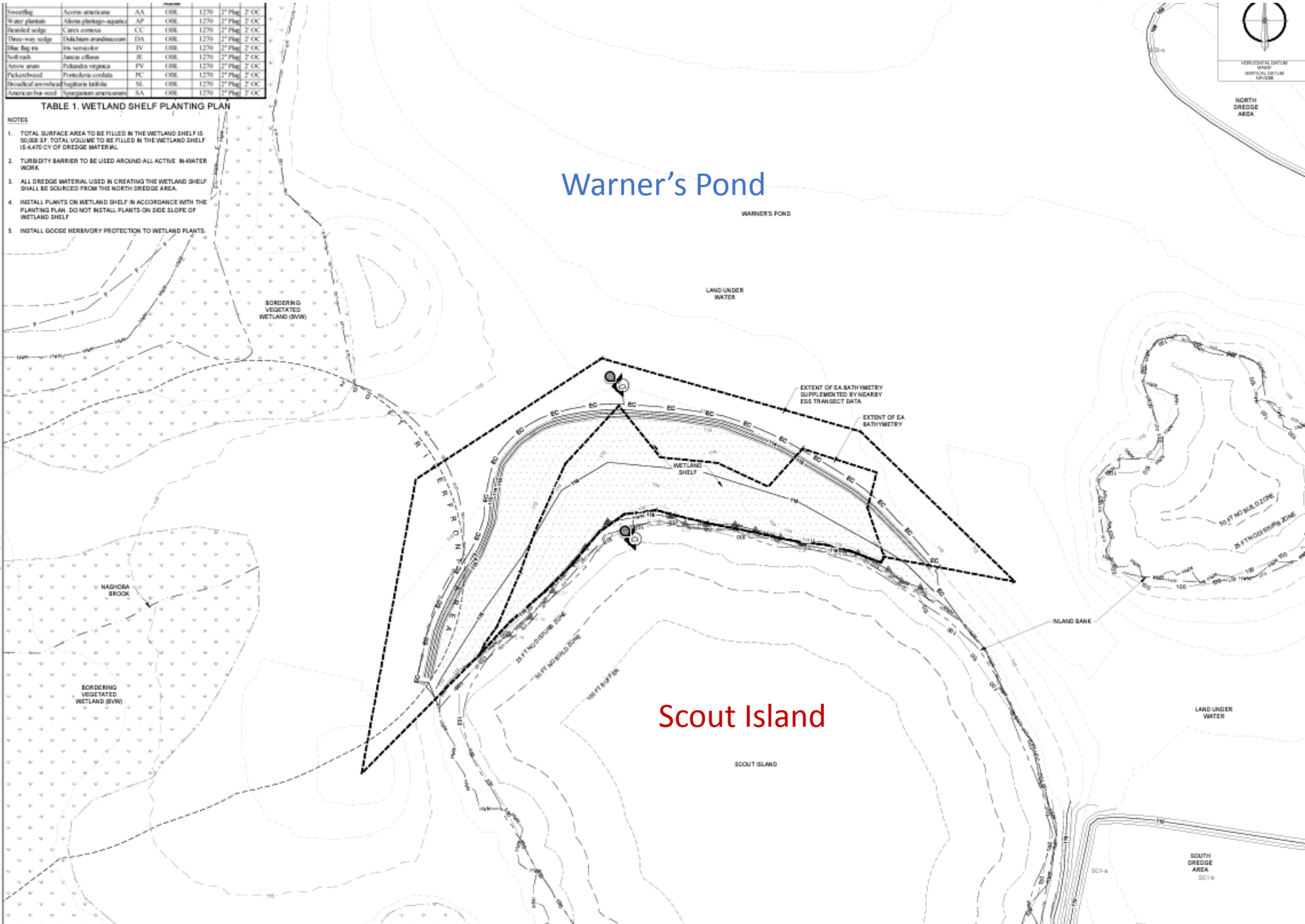
**G-001**  
SHEET: 1 OF 13

100% PLANS - FOR CONSTRUCTION

Species	Common Name	Code	Height	Plant	OC
Sweetflag	<i>Acrota americana</i>	AA	08L	1270	2" Plag 2" OC
Water plantain	<i>Alisma plantago-aquatica</i>	AP	08L	1270	2" Plag 2" OC
Broadleaf sedge	<i>Carex cornosa</i>	CC	08L	1270	2" Plag 2" OC
Three-way sedge	<i>Dicellaena arundinacea</i>	DA	08L	1270	2" Plag 2" OC
Blue flag iris	<i>Iris versicolor</i>	IV	08L	1270	2" Plag 2" OC
Soft rush	<i>Juncus effusus</i>	JU	08L	1270	2" Plag 2" OC
Lemon grass	<i>Panicum virgatum</i>	PV	08L	1270	2" Plag 2" OC
Pickersweed	<i>Portulaca oleracea</i>	PO	08L	1270	2" Plag 2" OC
Broadleaf arrowhead	<i>Sagittaria latifolia</i>	SL	08L	1270	2" Plag 2" OC
American lotus	<i>Nelumbo americana</i>	NA	08L	1270	2" Plag 2" OC

TABLE 1. WETLAND SHELF PLANTING PLAN

- NOTES
- TOTAL SURFACE AREA TO BE FILLED IN THE WETLAND SHELF IS 50,006 SF. TOTAL VOLUME TO BE FILLED IN THE WETLAND SHELF IS 4,470 CY OF DREDGE MATERIAL.
  - TURBIDITY BARRIER TO BE USED AROUND ALL ACTIVE IN-WATER WORK.
  - ALL DREDGE MATERIAL USED IN CREATING THE WETLAND SHELF SHALL BE SOURCED FROM THE NORTH DREDGE AREA.
  - INSTALL PLANTS ON WETLAND SHELF IN ACCORDANCE WITH THE PLANTING PLAN. DO NOT INSTALL PLANTS ON SIDE SLOPE OF WETLAND SHELF.
  - INSTALL GOOSE HERBIVORY PROTECTION TO WETLAND PLANTS.



Warner's Pond

Scout Island

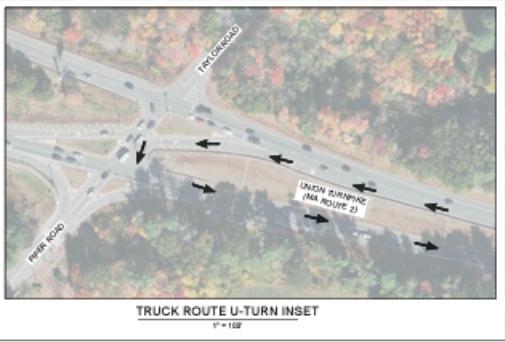
- Wetland Shelf Detail
- Example of in-pond placement

DESIGNED BY	AP
DRAWN BY	DVA
CHECKED BY	ASH
PROJECT MANAGER	AP
TOWN OF CONCORD WARNER'S POND RESTORATION PROJECT CONCORD, MASSACHUSETTS PROPOSED WETLAND SHELF	
EA Engineering, Science and Technology, Inc., P.E.C. 381 Main Center Street, Suite 102 Waverick, Rhode Island 02886 401.738.2440 www.easht.com	
FULL SIZE PLOT: 34" x 36" DATE: AUGUST 2003 PROJECT NUMBER: 0373001 <b>C-104</b> SHEET: 6 OF 13	

100% PLANS - FOR CONSTRUCTION

2. EQUIPMENT ACCESSING THE DEWATERING AND STAGING AREA WILL ENTER THE SITE FROM UNION TURNPIKE. EQUIPMENT ACCESSING WARNER'S POND AND THE ACCESS IMPROVEMENTS AREA WILL ENTER THE SITE FROM COMMONWEALTH AVENUE. EQUIPMENT ACCESSING THE DISPOSAL SITE WILL ENTER THE SITE FROM ROUTE 2A THROUGH THE NORTHEASTERN CORRECTIONAL CENTER. THE CONTRACTOR SHALL SECURE THE NECESSARY PERMISSIONS FROM THE TOWN AND MASSDOT.

TRUCKS TO USE U-TURN AT PIPER & TAYLOR ROADS AT MA ROUTE 2 (SEE INSET)



Minimum Security Prison Placement Location



Dewatering Area



Warner's Pond



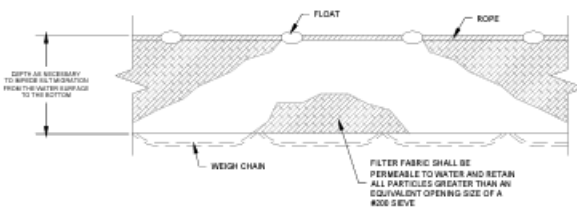
PROJECT NUMBER	6973001
DATE	AUGUST 2023
SCALE	1" = 100'
PROJECT NAME	WARNER'S POND RESTORATION PROJECT
PROJECT NUMBER	C-105
PROJECT SHEET	7 OF 13

EA Engineering, Science, and Technology, Inc., PBC  
561 Main Street, Suite 100  
Warwick, Rhode Island 02886  
(401) 735-5463  
www.eaat.com

TOWN OF CONCORD  
WARNER'S POND RESTORATION PROJECT  
CONCORD, MASSACHUSETTS  
DREDGE MATERIAL MANAGEMENT PLAN

100% PLANS - FOR CONSTRUCTION

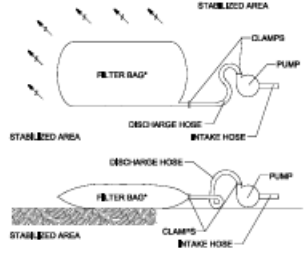
- Updated truck route to access prison
- From the Dewatering Area



**TURBIDITY BARRIER DETAIL**

NOT TO SCALE

NOTE: THE TOP SHALL BE AT THE WATER SURFACE AND THE BOTTOM OF TURBIDITY BARRIER SHALL BE ADJUSTED AND MAINTAINED TO PREVENT CONTACT WITH SEDIMENT AND CAUSE RE-SUSPENSION.



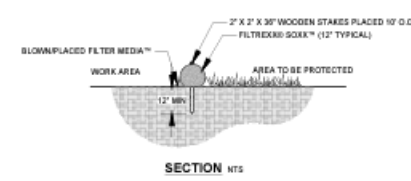
**FILTER BAG**

NOT TO SCALE

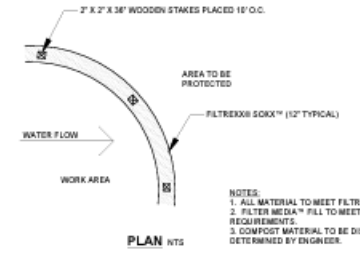
NOTES:

1. PLACE FILTER BAGS ON STABLE OR WELL VEGETATED AREAS WHICH ARE FLATTER THAN 5% AND WILL NOT ERODE WHEN SUBJECTED TO BAG DISCHARGES.
2. CLAMP PUMP DISCHARGE HOSES SECURELY INTO FILTER BAGS.
3. LIMIT PUMPING RATE TO 5% THE MANUFACTURERS MAXIMUM PUMPING RATE.
4. WHEN SEDIMENTS FILL 1/3 THE VOLUME OF A FILTER BAG IMMEDIATELY REMOVE THAT BAG FROM SERVICE, PROPERLY DISPOSE OF SPENT BAGS WITH THEIR SEDIMENTS.
5. ALL WATER COLLECTED WITHIN THE LIMIT OF DISTURBANCE (WITH THE EXCEPTION OF WATER DIVERTED AROUND THE WORK AREA) SHALL BE PUMPED THROUGH THE FILTER BAG.

\*NONWOVEN GEOTEXTILE FILTER BAG WHICH RETAINS ALL SEDIMENT PARTICLES LARGER THAN 150 MICRONS.

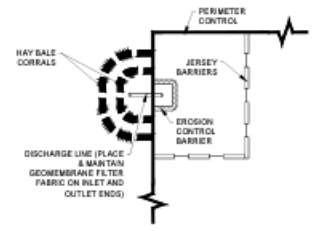


**SECTION NTS**



**PLAN NTS**

NOTES:  
 1. ALL MATERIAL TO MEET FILTREX® SPECIFICATIONS.  
 2. FILTER MEDIA™ FILL TO MEET APPLICATION REQUIREMENTS.  
 3. COFFFOOT MATERIAL TO BE DISPENSED ON SITE AS DETERMINED BY ENGINEER.

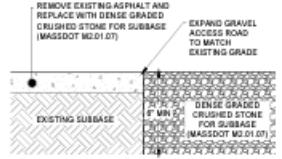


**DEWATERING SUMP STRUCTURE**

NOT TO SCALE

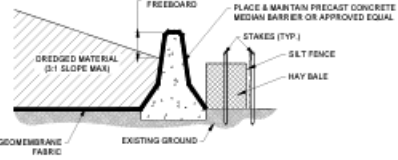
NOTES:

1. PROVIDE MINIMUM WEIR EFFECTIVE LENGTH OF 30 FT.
2. EXCAVATE DEWATERING SUMP TO SUFFICIENTLY HOLD WATER COMING FROM GEOTUBES.
3. FILL WITH PEA STONE AND INSTALL FILTER BAGS ON TOP.



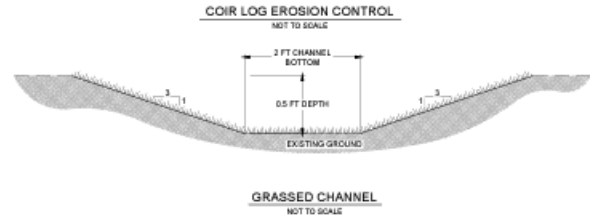
**GRAVEL ACCESS ROAD**

NOT TO SCALE



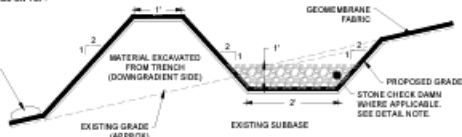
**DEWATERING AREA PERIMETER CONTROL**

NOT TO SCALE



**GRASSED CHANNEL**

NOT TO SCALE

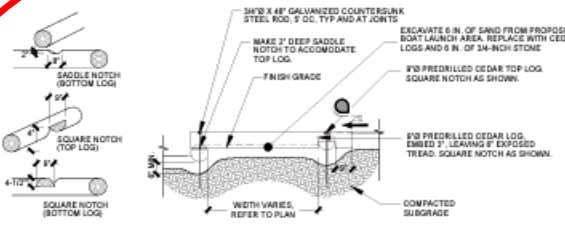


**TEMPORARY PERIMETER DEWATERING TRENCH DRAIN**

NOT TO SCALE

NOTE:

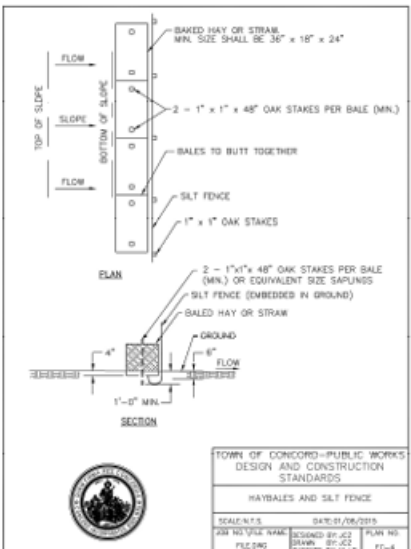
PROVIDE 1 FT HIGH, 1-FT WIDE STONE CHECK DAM CONSISTING OF 1-1/2" STONE PERPENDICULAR TO TRENCH DRAIN EVERY 200 LINEAR FEET.



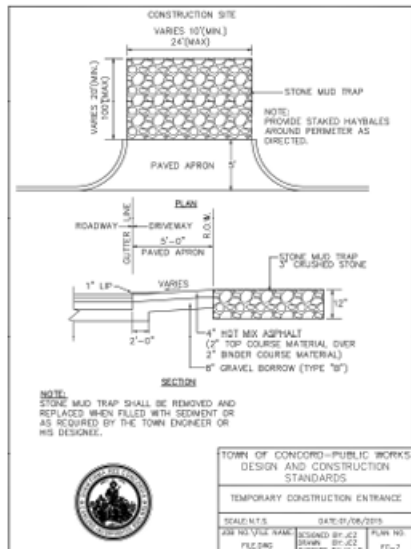
**CANOE/BOAT LAUNCH IMPROVEMENTS**

NOT TO SCALE

NOTE: EXCAVATE 8 IN. OF SAND FROM PROPOSED BOAT LAUNCH AREA, REPLACE WITH CEDAR LOGS AND 8 IN. OF 3/4-INCH STONE.



TOWN OF CONCORD—PUBLIC WORKS DESIGN AND CONSTRUCTION STANDARDS			
HAYBALES AND SALT FENCE			
SCALE: N.T.S.	DATE: 01/04/2015	DESIGNED BY: J.C.	PLUM NO. FILE.DWG
		DRWN. BY: J.C.	PT.-A



TOWN OF CONCORD—PUBLIC WORKS DESIGN AND CONSTRUCTION STANDARDS			
TEMPORARY CONSTRUCTION ENTRANCE			
SCALE: N.T.S.	DATE: 01/04/2015	DESIGNED BY: J.C.	PLUM NO. FILE.DWG
		DRWN. BY: J.C.	PT.-A

TOWN OF CONCORD  
WARNER'S POND RESTORATION PROJECT  
CONCORD, MASSACHUSETTS

DETAILS

**EA**  
EA Engineering, Science, and Technology, Inc., PBC  
361 Main Center Blvd, Suite 102  
Waltham, Rhode Island 02456  
(603) 730-3440  
www.eaet.com

SCALE AS SHOWN

FULL SIZE PLOT: 24" x 36"

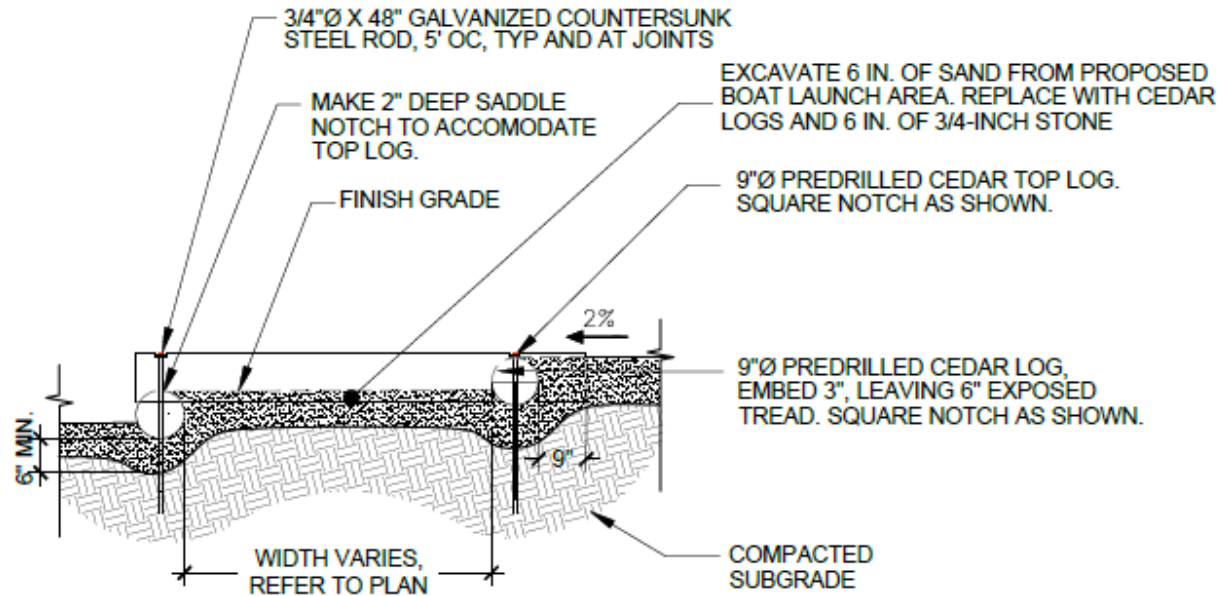
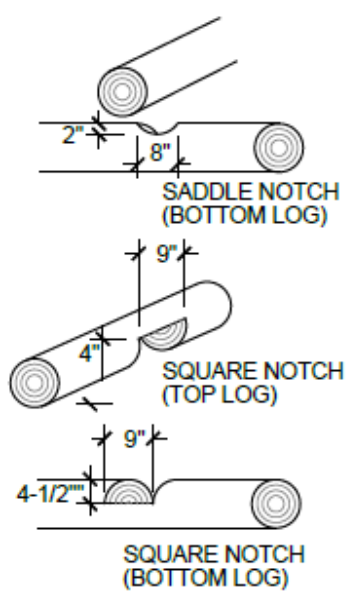
DATE: AUGUST 2022

PROJECT NUMBER: 6973001

**C-501**

0% PLANS - FOR CONSTRUCTION

- Additional Details
- Comm Ave Boat Launch Improvement Plan



### CANOE/BOAT LAUNCH IMPROVEMENTS

NOT TO SCALE

NOTE: EXCAVATE 6 IN. OF SAND FROM PROPOSED BOAT LAUNCH AREA, REPLACE WITH CEDAR LOGS AND 6 IN. OF 3/4-INCH STONE.

- Comm Ave Boat Launch Improvement Plan

## **Warner's Pond Dredging Bid Review**

- Request for Proposal (RFP)
- 2022 Dredging 100% Design Plan Set
- RFP Addendum #1
- Details of One Bid Received
- Alternative Dredging Plans not Pursued

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- [2023 Alternatives Analysis Report](#)
- [Envision Concord - A Bridge to 2030](#)
- [Memo on Warners Pond Conservation Status](#)
- [Warners Pond Herbicide Treatment Report](#)

### Warner's Pond Dredging Bid Information

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- [Warners Pond Dredging Planset](#)
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### Dam Removal Information

- [Undamming Rivers - A Review of the Ecological Impacts of Dam Removal](#)
- [The Ecology of Dam Removal](#)



Warner's Pond March through October, 2023.

(Source: NearMap)

generations, is in a state of eutrophication, which has resulted in a number of undesirable conditions including decreased water depths, widespread growths of aquatic invasive plants, and impaired recreational opportunities. For several years, the Town pursued a limited dredging project (6 acres of the 54-acre pond) to improve the ecological health and recreational opportunities at the pond. In August 2022, with permits in hand, the project was put out to bid. One bid was received, coming in more than three times higher than the funds allocated for the project. The Division then had an [Alternatives Analysis Report](#) developed to evaluate modified dredging, dam removal, and no action. This report recommended dam removal as the Preferred Alternative, which is a change in strategy from dredging. Based on community feedback, the Natural Resources Commission has established this Task Force to review alternatives, explore any other feasible options, and recommend a course of action forward. The task force is made up of 11 voting members and five ex officio representatives, and will be led by facilitators Toby Berkman and Rachel Freed from the [Consensus Building Institute](#).

### Committee Charge

[View Committee Charge](#)

### Members

Name	Representation
Vickie Alani	Upstream abutter
Paul Boehm	Recreation Commission
Malcolm Bryant	At-large
Jeff Collins	OARS
Christine Denaro	Downstream abutter
Keith Hannon	Friends of Warner's Pond
Mark Howell	Select Board
Bill Kemeza	Natural Resources Commission

# Warner's Pond Task Force Webpage

WARNER'S POND RESTORATION PROJECT

PROJECT #2243

ADDENDUM #1

To: All Prospective Bidders

From: Delia Kaye, Natural Resources Director

Date: August 29, 2022

Re: Contract No. 2243 – Warner's Pond Restoration Project  
Addendum #1

---

Please be advised that the information provided below comprises Addendum #1.

The pre-bid conference was held on Monday, August 15, 2022. Following the pre-bid conference, written questions were received regarding the project. Potential bidders should note the following.

**Representatives Present:**

Delia Kaye, Town of Concord  
Alex Patterson, EA Engineering, Science, and Technology, Inc., PBC  
Amy Hunt, EA Engineering, Science, and Technology, Inc., PBC  
Mike Bissonnette, Charter Contracting  
Bill Peach, T Ford  
Bill Simons, JF Brennan  
Andrew Timmis, JF Brennan  
Mike Rose, LEI  
Travis Sumner, SumCo Eco-Contracting  
Brian Scholten, SumCo Eco-Contracting  
Jim Murray, E.T. & L Corp

Prospective Bidders and all concerned are hereby notified of the following changes in the Contract Documents of the WARNER'S POND RESTORATION PROJECT in CONCORD, MA. These changes shall be incorporated in and shall become an integral part of the Contract Documents. The number (No. 1) and date (August 29, 2022) of this addendum shall be entered into the space provided on the Bid Form.

# RFP Addendum #1

- August 29, 2022
- RFP Addendum #1
  - Changes to original RFP
  - Answers to questions received from pre-bid conference
    - Pre-bid conference Aug 15, 2022
- Dredge Contractors (5) attended pre-bid conference
  - *Charter*
  - *T Ford*
  - *JF Brennan*
  - *SumCo*
  - *ET & L*

restoration

*Response: Dewatering area site improvements should be included under Bid Item No. 1 – Mobilization/Demobilization & Site Preparation. Restoration of the dewatering area should be included under Bid Item No. 4 – Site Restoration.*

- b. Is Item 10 to include the dewatering and all the items associated with that and the loading and transportation to the prison?

*Response: Yes.*

- c. Where should we include disposal of the geotextile tubes

*Response: Disposal of geotextile tubes should be included in Bid Item No. 1 – Mobilization/Demobilization & Site Preparation.*

- d. Bid item 12 has a quantity of only 6 tons. Is this correct?

*Response: (Bid Item 12 has been changed to Bid Item 13). The quantity for Bid Item No. 13 is 630 tons. The Bid Form has been revised accordingly.*

- e. How should wait time and delays be accounted for when bring the material into the prison. Based on Section 01 80 00. 1.09 E trucks are only allowed to enter the facility 3 times each day and they may not all be during standard working hours, and there is nothing to say how many trucks can enter at a time. Can we get this clarified?

*Response: The prison will open the facility for three one-hour time windows each day between the hours of 8:00 am and 3:00 pm during which trucks may enter/leave the prison facility grounds. Up to three trucks may be on the prison facility grounds at any one time. The Contractor may elect to dispose of the material at a licensed disposal facility. The Transportation and Disposal, Solids Processing and Price and Payment Procedures Specifications have been edited to reflect this change.*

12. Question: At the site walk it was discussed that the arsenic contaminated sediment would need to be pumped into a separate bag to be tested. Can you confirm that if the material in that tube is tested and is below the threshold the bag can continued to be filled with clean material?

*Response: This has been confirmed.*

13. Question: Wetland Shelf

# RFP Addendum #1

**Question** received by one of the interested contractors, "trucks are only allowed to enter the facility (prison) 3 times each day and they may not all be during standard working hours, and there is nothing to say how many trucks can enter at a time. Can we get this clarified?"

**Response:** "The prison will open the facility for three one-hour time windows each day between the hours of 8:00 am and 3:00 pm during which trucks may enter/leave the prison facility grounds. Up to three trucks may be on the prison facility grounds at any one time. **The Contractor may elect to dispose of the material at a licensed disposal facility.**"

# RFP Addendum #1

## Key changes to the RFP

- New Bid Items #11 & #12:
  - (#11) transportation & disposal of **43,200 tons** of non-contaminated materials to a **licensed disposal facility**
  - (#12) **3,200 cubic yards** are now going the Sediment Disposal Area (e.g., prison) not ~32,000 which was specified in the original RFP

Contract #2243 Bid Form					
Town of Concord Warner's Pond Restoration Project					
ITEM NO.	QUANTITY	UNIT	BASE BID ITEM DESCRIPTION WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
1		LS	Mobilization/Demobilization AT _____ Per Lump Sum		
2		LS	Temporary Erosion and Sedimentation Controls AT _____ Per Lump Sum		
3		LS	Commonwealth Avenue Access Improvements AT _____ Per Lump Sum		
4		LS	Site Restoration AT _____ Per Lump Sum		
5		LS	Wetland Shelf Planting AT _____ Per Lump Sum		
6		LS	Invasive Species Removal AT _____ Per Lump Sum		
7	5,000	CY	Dredging North Dredge Area & Wetland Shelf Creation AT _____ Per Cubic Yard		
8	30,800	CY	Dredging South Dredge Area AT _____ Per Cubic Yard		
9	100	TN	Dredged Debris Removal AT _____ Per Ton		
10	32,000	CY	Processing Dredge Material AT _____ Per Cubic Yard		
11	43,200	TN	Transport and Disposal of Non-Contaminated Materials at Licensed Disposal Location AT _____ Per Cubic Yard		
12	3,200	CY	Transport and Disposal of Non-Contaminated Materials at Sediment Disposal Area AT _____ Per Cubic Yard		
13	630	TN	Transportation and Disposal of Contaminated Material AT _____		

# RFP Addendum #1

- New bid sheet item changes

			Per Ton		
14	400	TN	Loam AT _____ Per Ton		
15	400	TN	Sand AT _____ Per Ton		
16	90	CY	Gravel Access Road AT _____ Per CY		
17	46	TN	Asphalt Disposal AT _____ Per Ton		
TOTAL BASE BID					

## **Warner's Pond Dredging Bid Review**

- Request for Proposal (RFP)
- 2022 Dredging 100% Design Plan Set
- RFP Addendum #1
- Details of One Bid Received
- Alternative Dredging Plans not Pursued



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- [2023 Alternatives Analysis Report](#)
- [Envision Concord - A Bridge to 2030](#)
- [Memo on Warners Pond Conservation Status](#)
- [Warners Pond Herbicide Treatment Report](#)

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Warner's Pond March through October, 2023.

(Source: NearMap)

generations, to a state of eutrophication, which has resulted in a number of undesirable conditions including decreased water depths, widespread growths of aquatic invasive plants, and impaired recreational opportunities. For several years, the Town pursued a limited dredging project (6 acres of the 54-acre pond) to improve the ecological health and recreational opportunities at the pond. In August 2022, with permits in hand, the project was put out to bid. One bid was received, coming in more than three times higher than the funds allocated for the project. The Division then had an [Alternatives Analysis Report](#) developed to evaluate modified dredging, dam removal, and no action. This report recommended dam removal as the Preferred Alternative, which is a change in strategy from dredging. Based on community feedback, the Natural Resources Commission has established this Task Force to review alternatives, explore any other feasible options, and recommend a course of action forward. The task force is made up of 11 voting members and five ex officio representatives, and will be led by facilitators Toby Berkman and Rachel Freed from the [Consensus Building Institute](#).

### Committee Charge

[View Committee Charge](#)

### Members

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Paul Boehm	Recreation Commission
Malcolm Bryant	At-large
Jeff Collins	OARS
Christine Denaro	Downstream abutter
Keith Hannon	Friends of Warner's Pond
Mark Howell	Select Board
Bill Kemeza	Natural Resources Commission

# Warner's Pond Task Force Webpage

ITEM NO.	QUANTITY	UNIT	BASE BID ITEM DESCRIPTION WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
1		LS	Mobilization/Demobilization AT <u>Nine Hundred Thousand Dollars and Zero Cents</u> Per Lump Sum	\$900,000.00	\$900,000.00
2		LS	Temporary Erosion and Sedimentation Controls AT <u>One Million Four Hundred Thousand Dollars and Zero Cents</u> Per Lump Sum	\$1,400,000.00	\$1,400,000.00
3		LS	Commonwealth Avenue Access Improvements AT <u>Thirteen Thousand Dollars and Zero Cents</u> Per Lump Sum	\$13,000.00	\$13,000.00
4		LS	Site Restoration AT <u>Three Hundred Thousand Dollars and Zero Cents</u> Per Lump Sum	\$300,000.00	\$300,000.00
5		LS	Wetland Shelf Planting AT <u>Eighty Five Thousand Dollars and Zero Cents</u> Per Lump Sum	\$85,000.00	\$85,000.00
6		LS	Invasive Species Removal AT <u>Thirty Five Thousand Dollars and Zero Cents</u> Per Lump Sum	\$35,000.00	\$35,000.00
7	5,000	CY	Dredging North Dredge Area & Wetland Shelf Creation AT <u>Forty Five Dollars and Zero Cents</u> Per Cubic Yard	\$45.00	\$225,000.00
8	30,800	CY	Dredging South Dredge Area AT <u>Twenty Five Dollars and Zero Cents</u> Per Cubic Yard	\$25.00	\$770,000.00
9	100	TN	Dredged Debris Removal AT <u>One Hundred Eight Dollars and Zero Cents</u> Per Ton	\$108.00	\$10,800.00
10	32,000	CY	Processing Dredge Material AT <u>Thirty Dollars and Zero Cents</u> Per Cubic Yard	\$30.00	\$960,000.00
11	43,200	TN	Transport and Disposal of Non-Contaminated Materials at Licensed Disposal Location AT <u>One Hundred Five Dollars and Zero Cents</u> Per Cubic Yard	\$105.00	\$4,536,000.00
12	3,200	CY	Transport and Disposal of Non-Contaminated Materials at Sediment Disposal Area AT <u>Forty Dollars and Zero Cents</u> Per Cubic Yard	\$40.00	\$128,000.00
13	630	TN	Transportation and Disposal of Contaminated Material AT <u>One Hundred Twenty Dollars and Zero Cents</u>	\$120.00	\$75,600.00

# Contract RFP Bid Form Received

			Per Ton Loam AT <u>One Hundred Twenty Dollars and Zero Cents</u> Per Ton	\$120.00	\$48,000.00
14	400	TN			
15	400	TN	Sand AT <u>One Hundred Fifteen Dollars and Zero Cents</u> Per Ton	\$115.00	\$46,000.00
16	90	CY	Gravel Access Road AT <u>One Hundred Dollars and Zero Cents</u> Per CY	\$100.00	\$9,000.00
17	46	TN	Asphalt Disposal AT <u>Fifty Dollars and Zero Cents</u> Per Ton	\$50.00	\$2,300.00
<b>TOTAL BASE BID</b> Nine Million Five Hundred Forty Three Thousand Seven Hundred Dollars and Zero Cents					<b>\$9,543,700.00</b>

Alternative Proposed Schedule – Please see Note and Alternative Proposed Schedule attached

**\$9,543,700**

Amounts shall be shown in both words and figures, where indicated. In case of discrepancy, the amount shown in words will govern.

The undersigned agrees that extra work, if any, will be performed in accordance with Article 10 of the General Conditions and Supplementary Conditions and will be paid for in accordance with Article 11 of the General Conditions and Supplementary Conditions.

A Payment Bond in the amount of 50% of the total contract price shall be provided by the Contractor.

The above prices shall include all labor, materials, bailing, shoring, removal, overhead, profit, insurance and incidentals required to complete the Work.

The names and residences of all persons and parties interested in the foregoing Bid as principals are as follows:

(Give first and last names in full. In the case of a corporation and/or partnership - see Paragraph 1.03 C of Section 00100 Instructions to Bidders.)







Robert L. Delhome, President

500 Harrison Avenue, Suite 4R

Boston, MA 02118

# Contract RFP Bid Form Received - Key Items

## Bid Price

- **Item No. 1:** Temporary Erosion and Sediment Controls  \$1,400,000
- **Item No. 3:** Comm Ave Access Improvements  
(Improved Boat Launch)  \$13,000
- **Item No. 8:** Dredging South Dredge Area (\$25/CY)  \$770,000
- **Item No. 10:** Processing Dredge Material (Includes  
Dewatering w/ Geotubes)  \$960,000
- **Item No. 11:** Transport & Disposal of Non-  
contaminated Materials to Licensed Disposal Location  **\$4,536,000**
- **Item No. 12:** Transport & Disposal Non-contaminated  
Materials at Sediment Disposal Area (i.e., Min.  
Security Prison)  \$128,000

# Contract RFP Bid Form Received - Quick Review

- 17 contractors originally interested & five attended the pre-bid conference
  - Only one bid received from Charter
- Were all but 1 of the original 17 interested contractors dissuaded from bidding on the project because of the long list of Prison security restrictions?
- What facility did Charter select to bring the dredged sediment for disposal?
  - Unknown?
  - To compare: the minimum security prison was free
    - (i.e., no added dumping fee to place material there)

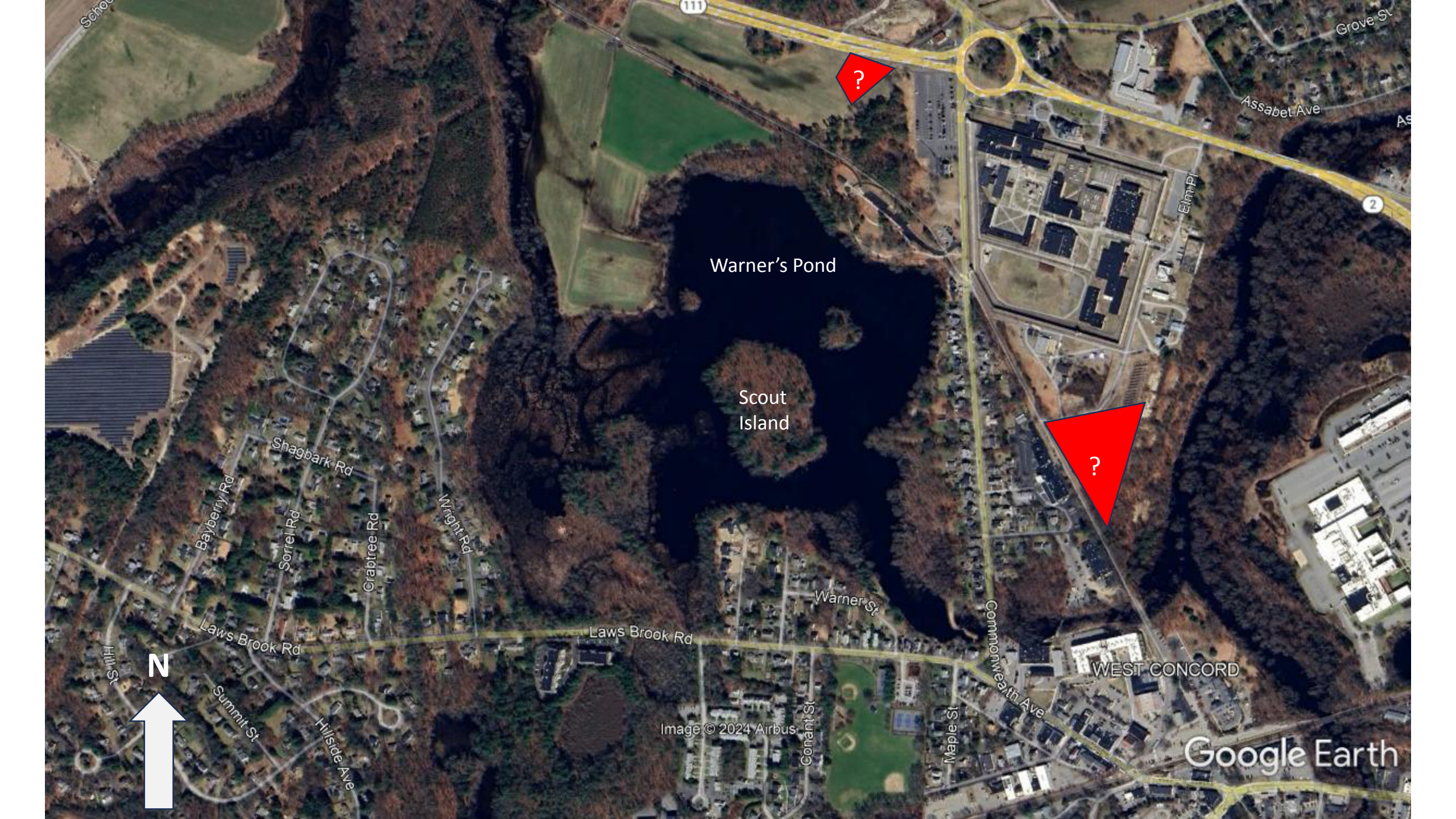
## **Warner's Pond Dredging Bid Review**

- Request for Proposal (RFP)
- 2022 Dredging 100% Design Plan Set
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- Details of One Bid Received
- Alternative Dredging Plans not Pursued

# Dredge Plans Still Exist to Pursue/Develop



- Alternative (lower cost) upland placement/disposal locations exist
  - Example: alternative site owned by prison was identified
    - Email sent to Task Force Feb 26, 2024 identified new location
  - Eliminates high transportation costs & could reduce dewatering costs
- Use Hydraulic Dredge Pipeline
  - Pump dredged material to nearby final upland disposal location(s), or in-pond placement locations
- Why wasn't more in-pond placement like wetland shelf considered?



School

Grove St

Assabet Ave

2

Warner's Pond

Scout Island

?

Bayberry Rd  
Shagbark Rd  
Sorrel Rd  
Crabtree Rd  
Wright Rd

Laws Brook Rd

Laws Brook Rd

Warner St

Commonwealth Ave

WEST CONCORD

Google Earth

Image © 2024 Airbus



Hill St

Summit St

Hillside Ave

Conant St

Maple St

Elm Pl

# Example Inland Dredging Project 2014 - USACE

- Details

- US Army Corps of Engineers inland dredging project
- Milford Pond in Milford, MA
- Goals:
  - Deepen/restore an impounded pond
  - Utilize in-pond placement of dredged material
  - Create new riparian wetland habitat & islands with dredged material in the pond

- **Dredge 246,000 CY sediment (17 acres)**

- @ approx. \$9-11/CY
- Total cost (selected bid) = \$4,072,800
- Subcontracted to Charter (same contractor that submitted \$9M+ bid for Warner's Pond)



# Example Inland Dredging Project 2014 - USACE

ABSTRACT OF OFFERS - CONSTRUCTION CONTINUATION SHEET			1. SOLICITATION NUMBER W912WJ-14-B-0015				PAGE OF 2		PAGES 2	
			INSTRUCTIONS - Attach this form to OF 1419, Abstract of Offers - Construction, when more than 2 offers are received on a construction project. Each Continuation Sheet will accommodate 14 contract items to conform to the number of items which can be entered on the OF 1419. Use additional OF 1419's for contract items in excess of 14 and attach additional Continuation Sheets (OF 1419A) as needed.							
2. PROJECT TITLE  Milford Pond Restoration			NO. 3		NO:4		NO: 5		NO:6	
			A. OFFEROR  H&L Contracting LLC		A. OFFEROR  Sealand Enviro		A. OFFEROR  Palmer Federal Contractors		A. OFFEROR	
3. CONTRACT ITEMS			B. BID SECURITY (TYPE AND AMT) Bid Bond 20%		B. BID SECURITY (TYPE AND AMT) Bid Bond 20%		B. BID SECURITY (TYPE AND AMT) Bid Bond 20%		B. BID SECURITY (TYPE AND AMT)	
			C. AMENDMENTS ACKNOWLEDGED 2		C. AMENDMENTS ACKNOWLEDGED 2		C. AMENDMENTS ACKNOWLEDGED 2		C. AMENDMENTS ACKNOWLEDGED	
A. ITEM NO.	B. ESTIMATED QUANTITY	C. UNIT	D. UNIT PRICE	E. ESTIMATED AMOUNT	D. UNIT PRICE	E. ESTIMATED AMOUNT	D. UNIT PRICE	E. ESTIMATED AMOUNT	D. UNIT PRICE	E. ESTIMATED AMOUNT
0001	1	Job	\$1,200,000.00	\$1,200,000.00	\$500,000.00	\$500,000.00	\$697,000.00	\$697,000.00		
0002										
0002AA	160,000	CD	\$14.00	\$2,240,000.00	\$11.00	\$1,760,000.00	\$11.40	\$1,824,000.00		
0002AB	40,000	CD	\$5.00	\$200,000.00	\$11.00	\$440,000.00	\$10.50	\$420,000.00		
0003	1	Job	\$650,000.00	\$650,000.00	\$990,500.00	\$990,500.00	\$700,000.00	\$700,000.00		
Total Estimated Amount, Base Bid Items				4,290,000.00		3,690,500.00		3,641,000.00		
0004										
0004AA	36,000	CD	\$14.00	\$504,000.00	\$10.00	\$360,000.00	\$9.55	\$343,800.00		
0004AB	10,000	CD	\$5.00	\$50,000.00	\$9.25	\$92,500.00	\$8.80	\$88,000.00		
Total Estimated Amount, Optional Items				\$554,000.00		\$452,500.00		\$431,800.00		
<b>TOTAL ESTIMATED AMOUNT, BASE BID AND OPTIONAL ITEMS</b>				<b>\$4,844,000.00</b>		<b>\$4,143,000.00</b>		<b>\$4,072,800.00</b>		

# Warner's Pond - Dredging Project Potential

- Combine Elements of USACE Milford, MA project and Warner's Pond
- **Assumptions:**
  - Utilize in-pond placement as much as possible, especially in shallow western cove
  - Excess material placed in upland disposal location via hydraulic dredge pipeline (e.g., alternative prison site south of rotary)
    - Dewater smallest amount possible, using cheapest method
  - Mob/Demob = \$900,000 (2022 Charter bid for Warner's Pond)
  - 2014 USACE dredging rate ~\$11/CY —> 2024 inflation assume approx. **\$20/CY**
  - 2022 Charter's South Dredge Area bid price **\$25/CY**

# Warner's Pond Dredging Alternatives: A-B-C

Item	Quantity	Unit	Rate	Cost \$	Notes
Dredge Mob/Demob #	-	\$	\$900,000	\$900,000	Charter's 2022 bid - fixed price
Hydraulic Dredge Pond (Alt A)	35,000	Cubic Yards (CY)	\$25	\$875,000	Charter's 2022 bid \$/CY
Hydraulic Dredge Pond (Alt B)	100,000	Cubic Yards (CY)	\$25	\$2,500,000	Charter's 2022 bid \$/CY
Hydraulic Dredge Pond (Alt C)	100,000	Cubic Yards (CY)	\$20	\$2,000,000	Estimated based on USACE 2014 Milford project
			<b>Total</b>	<b>\$1,775,000</b>	Original Plan: Alt A
Assume in-pond placement with no dewatering area				<b>\$3,400,000</b>	Alt B
				<b>\$2,900,000</b>	Alt C

# Mobilization/Demobilization of dredging equipment and setup

# Thank You!

