



**US Army Corps
of Engineers**
New England District

PUBLIC NOTICE

696 Virginia Road
Concord, MA 01742-2751

Date: April 3, 2007
Comment Period Ends: May 3, 2007
File Number: NAE-2006-4215
In Reply Refer To: Paul Sneeringer @978-318-8491
Or by e-mail: paul.j.sneeringer@nae02.usace.army.mil

The District Engineer has received a permit application from the applicant below to **conduct work in waters of the United States** as described below. The Corps is soliciting comments on both the project itself and the range of issues to be addressed in the environmental documentation.

APPLICANT: Town of Sandwich Department of Natural Resources, 16 Jan Sebastian Drive, Sandwich, Massachusetts 02563

ACTIVITY

The Town of Sandwich has proposed to discharge dredged and/or fill material into approximately 5,700 square feet of waters of United States, including jurisdictional wetlands associated with the Lower and Upper Shawme Lakes as part of the complete rehabilitation of the Upper Shawme Lake Dam. This project includes the demolition of the existing dam and reconstruction of a new earthen dam with a new fish ladder. The Town proposes to temporarily drain approximately 1.90 acres of the Lower and Upper Shawme Lakes in order to dewater the construction area. This rehabilitation project is necessary to bring the Upper Shawme Dam up to modern Dam Safety specifications. The work is described on the enclosed plans entitled "UPPER SHAWME LAKE DAM," on ten sheets, and dated "Feb. 2007."

WATERWAY AND LOCATION OF THE PROPOSED WORK

This work is proposed in the Upper and Lower Shawme Lakes at Union Braiding Road in Sandwich, Massachusetts. The proposed location on the USGS Sagamore quadrangle sheet is at 41° 45' 3.4" N and 70° 30' 9.6" W.

AUTHORITY

Permits are required pursuant to:

- Section 10 of the Rivers and Harbors Act of 1899
- Section 404 of the Clean Water Act
- Section 103 of the Marine Protection, Research and Sanctuaries Act).

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Where the activity involves the discharge of dredged or fill material into waters of the United States or the transportation of dredged material for the purpose of disposing it in ocean waters, the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act, and/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972 as amended.

SECTION 106 COORDINATION

Based on his initial review, the District Engineer has determined that the proposed work may impact properties listed in, or eligible for listing in, the National Register of Historic Places. Additional review and consultation to fulfil requirements under Section 106 of the National Historic Preservation Act of 1966, as amended, will be ongoing as part of the permit review process.

ENDANGERED SPECIES CONSULTATION

The New England District, Army Corps of Engineers has reviewed the list of species protected under the Endangered Species Act of 1973, as amended, which might occur at the proposed project site during the construction and subsequent operation/use period sought by the applicant. We have undertaken a Biological Assessment (BA) of the potential for interactions and adverse impacts to those listed species. It is our determination that the proposed activity for which authorization is being sought is designed, situated or will be operated/used in such a manner that it is not likely to adversely affect any Federally listed endangered or threatened species or their designated critical habitat. By this Public Notice, we are requesting that the appropriate Federal Agency concur with our BA determination.

The States of Connecticut, Maine, Massachusetts, New Hampshire and Rhode Island have approved **Coastal Zone Management Programs**. Where applicable the applicant states that any proposed activity will comply with and will be conducted in a manner that is consistent with the approved Coastal Zone Management Program. By this Public Notice, we are requesting the State concurrence or objection to the applicant's consistency statement.

The following authorizations have been applied for, or have been, or will be obtained:

- (XX) Permit, License or Assent from State.
- (XX) Permit from Local Wetland Agency or Conservation Commission.
- (XX) Water Quality Certification in accordance with Section 401 of the Clean Water Act.

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FILE NO. NAE-2006-4215

In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. **Comments should be submitted in writing by the above date.** If you have any questions, please contact Paul Sneeringer at (978) 318-8491, (800) 343-4789 or (800) 362-4367, if calling from within Massachusetts.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The Corps holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. All comments will be considered a matter of public record. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

For more information on the New England District Corps of Engineers programs, visit our website at <http://www.nae.usace.army.mil>.

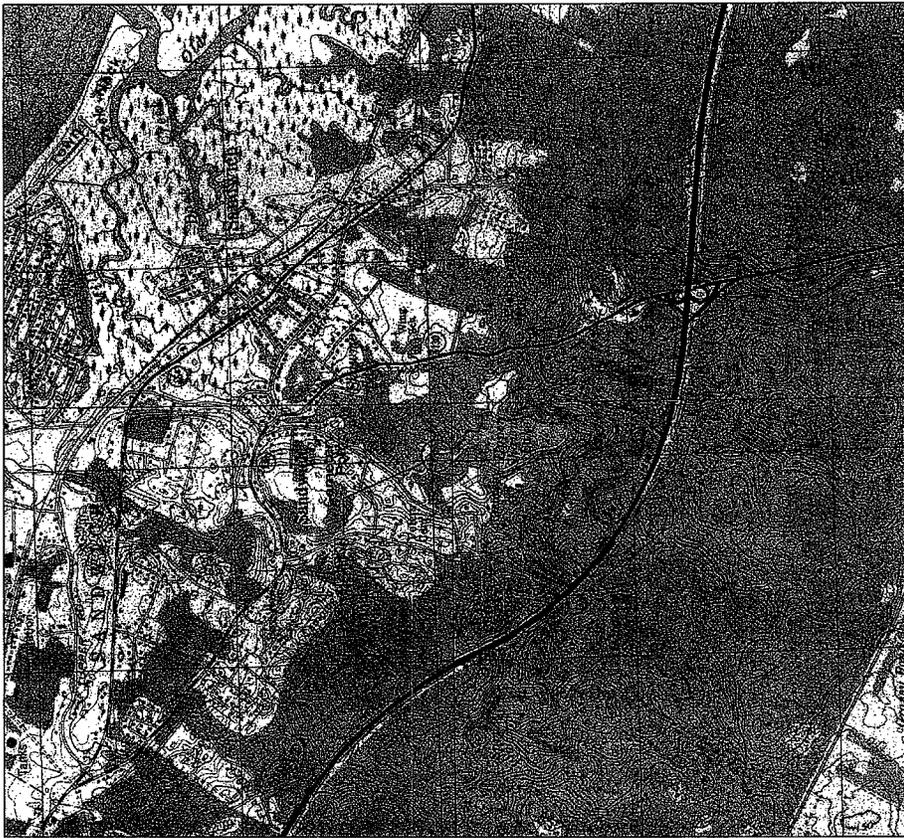
THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.



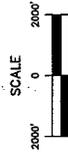
Karen Kirk Adams
Chief, Permits and Enforcement Branch
Regulatory Division

If you would prefer not to continue receiving Public Notices, please contact Ms. Tina Chaisson at (978) 318-8058 or e-mail her at bettina.m.chaisson@usace.army.mil. You may also check here () and return this portion of the Public Notice to: Bettina Chaisson, Regulatory Division, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742-2751.

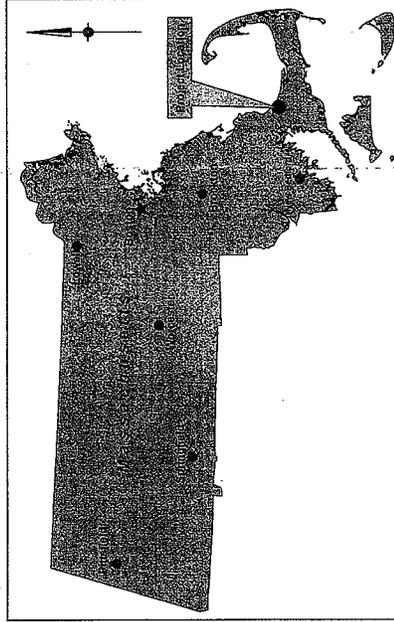
NAME: _____
ADDRESS: _____



VICINITY MAP



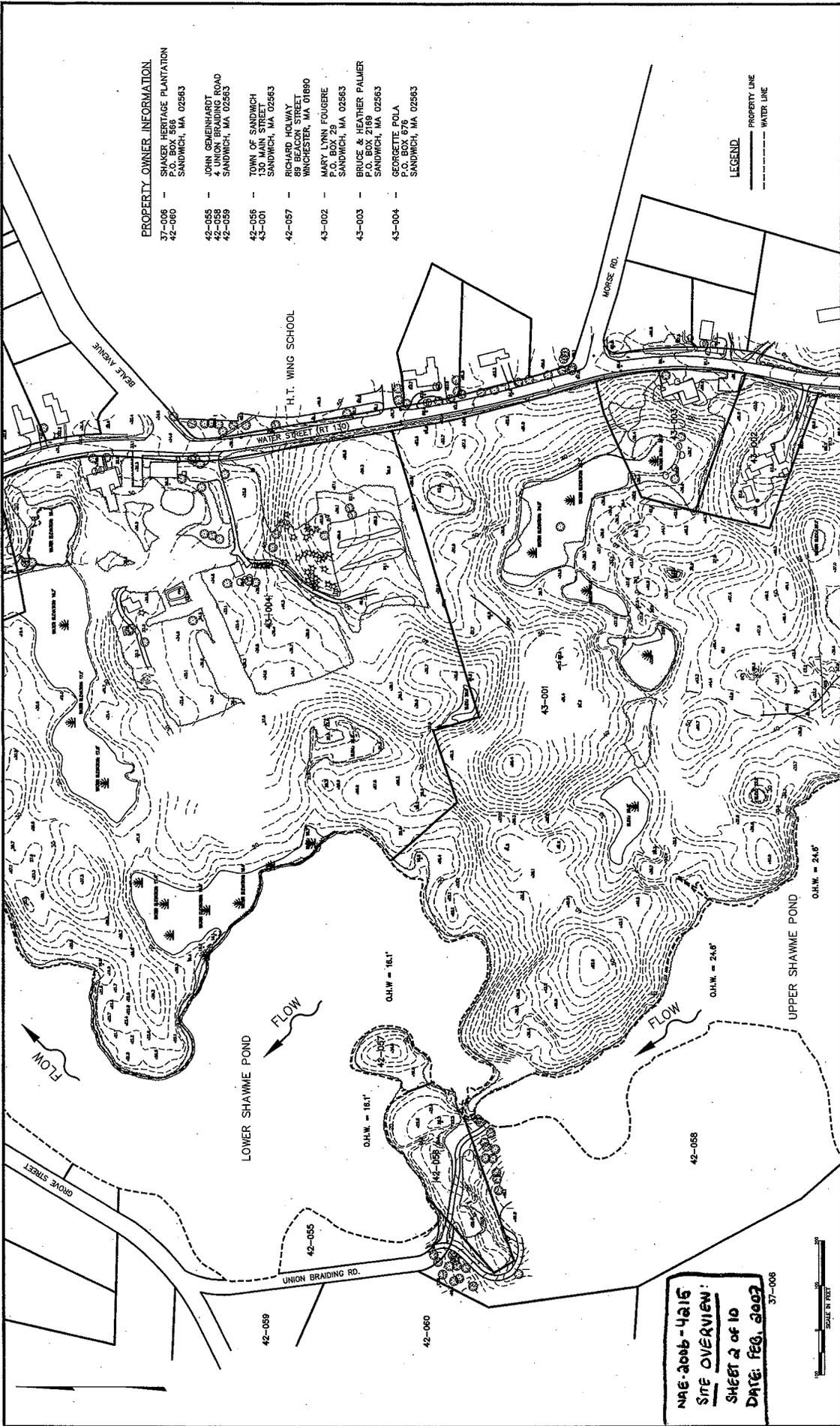
LOCATION MAP
 N.T.S.



AREA MAP
 N.T.S.

NAE - 8006-4816
 LOCUS MAP,
 SHEET 1 OF 10
 DATE: Feb. 2007

JOB NO. 800647		SHEET NO. 2 OF 16	
DATE Feb 2007		DRAWING NO. XXX	
PROPOSED SITE LOCATION LOCATION MAP AND PROJECT AREA		TOWN OF SANDWICH MASSACHUSETTS	
UPPER SHAWMEE LAKE DAM		MCM MAHON TRANSPORTATION ENGINEERS & PLANNERS	
NO.	DESCRIPTION	DATE	BY
	REVISIONS		
DESIGNED	K.A.S.	DRAWN	J.E.F.
CHECKED		APPROVED	
AUTOCAD		SCALE	



- PROPERTY OWNER INFORMATION**
- 37-006 - SHAWMERE HERITAGE PLANTATION SANDWICH, MA 02563
 - 42-055 - JOHN SCHENKELBART 4 UNION BRAIDING ROAD SANDWICH, MA 02563
 - 42-058 - TOWN OF SANDWICH 130 MAIN STREET SANDWICH, MA 02563
 - 42-059 - RICHARD HOLWAY 88 BEACON STREET WINCHESTER, MA 01890
 - 43-001 - MARY LYNN FOUGERE P.O. BOX 29 SANDWICH, MA 02563
 - 43-002 - BRUCE & HEATHER PALMER P.O. BOX 2189 SANDWICH, MA 02563
 - 43-003 - GEORGETTE POLA P.O. BOX 676 SANDWICH, MA 02563
 - 43-004 -

LEGEND

——— PROPERTY LINE
 - - - - - WATER LINE

JOB NO. 908547		SHEET NO. 2 OF 9	
DATE Feb 2007		DRAWING NO. R-1	
TOWN OF SANDWICH MASSACHUSETTS		EXISTING SITE LOCATION	
UPPER SHAWME LAKE DAM			
MCMAHON TRANSPORTATION ENGINEERS & PLANNERS			
DESIGNED K.A.S.	CHECKED K.A.S.	SCALE 1"=200'	APPROVED R.E.H.
DRAWN C.T.H.	DATE BY	REVISIONS	

NAE-2006-4216
SITE OVERVIEW
SHEET 2 of 10
DATE: FEB. 2007
 37-006



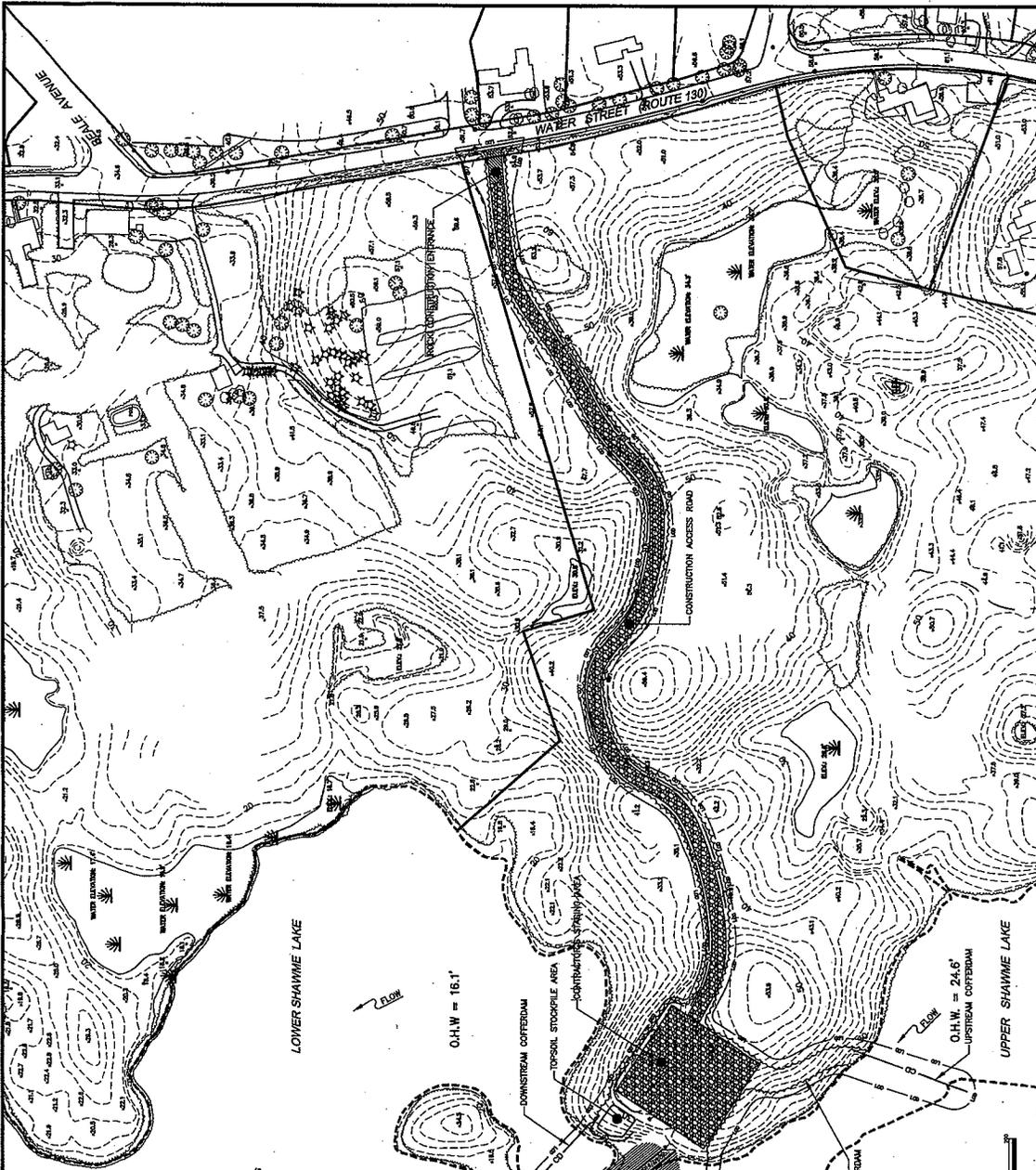
908547 - Upper Shawme Dam Project (Permits, Dammit) (Copy of Engineer/Existing Site Plan)

GENERAL NOTES

1. ALL EXISTING UTILITIES SHOWN ON THE PLAN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF THE INFORMATION. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF THE INFORMATION. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF THE INFORMATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE LOCAL MUNICIPALITY, STATE, AND FEDERAL AGENCIES PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO ORDERING MATERIAL.
3. THE LOCATION OF PROPERTY LINES, RIGHT-OF-WAY LINES, AND MUNICIPAL BOUNDARIES SHOWN ON THE DRAWINGS ARE THE RESULT OF A FIELD SURVEY. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PROPERTY LINES AND MUNICIPAL BOUNDARIES PRIOR TO THE START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITHIN STATE OR MUNICIPAL ROAD RIGHT-OF-WAY LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE LOCAL MUNICIPALITY, STATE, AND FEDERAL AGENCIES PRIOR TO THE START OF CONSTRUCTION.
5. EXISTING CONTOUR INTERVAL IS TWO (2) FEET AS SHOWN ON THE DRAWINGS.
6. PROPOSED CONTOURS REPRESENT FINISHED GRADE (I.E. TOP OF TOPSOIL, TOP OF PAVEMENT, TOP OF ROCK BERM, ETC.).

EROSION CONTROL NOTES

1. REFER TO SHEETS ES-2 THROUGH ES-4 FOR THE EROSION AND SEDIMENT POLLUTION CONTROL PLAN NARRATIVE, SEQUENCE OF CONSTRUCTION, AND ASSOCIATED EROSION CONTROL DETAILS.
2. INCLUDING CLEARING AND GRADING, WITHIN THE TRIBUTARY AREAS OF SAID FACILITIES.
3. UNTIL THE SITE IS PERMANENTLY STABILIZED, ALL EROSION CONTROL FACILITIES SHALL BE MAINTAINED PROPERLY. MAINTENANCE OPERATIONS SHALL INCLUDE INSPECTION, REPAIR, REPLACEMENT, REGRADING, RESEEDING, AND WEEDING AS NECESSARY TO MAINTAIN THE EFFECTIVENESS OF THE FACILITIES. EROSION CONTROL FACILITIES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
4. ALL PORTIONS OF THE CONTRACTOR'S STAGING AREA THAT WILL BE USED FOR EQUIPMENT/INTERNAL STORAGE AND THOSE AREAS THAT WILL BE USED FOR STORAGE OF MATERIAL SHALL BE STABILIZED WITH A SIX-INCH (1.5M) LAYER OF AGGREGATE. EVERY PORTION OF THE CONTRACTOR'S STAGING AREA TO BE STABILIZED WITH A SIX-INCH (1.5M) LAYER OF AGGREGATE. EVERY PORTION OF THE CONTRACTOR'S STAGING AREA TO BE STABILIZED WITH A SIX-INCH (1.5M) LAYER OF AGGREGATE.
5. ALL CONSTRUCTION ACCESS ROADS SHALL REMAIN AT ALL TIMES WITH A SIX-INCH (1.5M) LAYER OF AGGREGATE. SHOULD THE CONTRACTOR CHOOSE TO DEVIATE FROM THE APPROVED PLAN AND RELOCATE, ADD, OR USE OTHER ACCESS ROADS, THE CONTRACTOR SHALL PROVIDE ADEQUATE EROSION MEASURES AS NEEDED TO PASS UPRSTREAM "CLEAN" RUNOFF AROUND THE STAGING AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS AND THE SIZING OF THESE DIVERSION FACILITIES. THE OWNER ASSUMES NO RESPONSIBILITY SHOULD THESE DIVERSION MEASURES FAIL.
6. EXTENDING BEYOND THE LIMIT OF DISTURBANCE LINE SHOWN ON THIS DRAWING WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEERING AGENCIES.
7. ALL GRAVEL CONSTRUCTION ACCESS ROADS SHALL REMAIN AT ALL TIMES WITH A SIX-INCH (1.5M) LAYER OF AGGREGATE. SHOULD THE CONTRACTOR CHOOSE TO DEVIATE FROM THE APPROVED PLAN AND RELOCATE, ADD, OR USE OTHER ACCESS ROADS, THE CONTRACTOR SHALL PROVIDE ADEQUATE EROSION MEASURES AS NEEDED TO PASS UPRSTREAM "CLEAN" RUNOFF AROUND THE STAGING AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS AND THE SIZING OF THESE DIVERSION FACILITIES. THE OWNER ASSUMES NO RESPONSIBILITY SHOULD THESE DIVERSION MEASURES FAIL.
8. A PUMPED WATER FILTER BAG OR EQUIVALENT SEDIMENT REMOVAL FACILITY, AT NO TIME SHALL WATER FROM THE WORK AREA BE DISCHARGED INTO SHAWMEE LAKE OR UPPER SHAWMEE LAKE WITHOUT FIRST PASSING THROUGH A SEDIMENT REMOVAL FACILITY.



EROSION CONTROL LEGEND

- PROPERTY LINE
- GRAVEL CONSTRUCTION ACCESS ROAD
- ROCK CONSTRUCTION ENTRANCE
- EROSION CONTROL MATTING
- LIMIT OF DISTURBANCE
- LIMIT OF CLEARING
- PUMPED WATER FILTER BAG
- COTTERDAM
- SILT FENCE
- WATER LINE

NAE-2006-4215
Project OVERVIEW:
SHEET 3 of 10
DATE: FEB. 2007

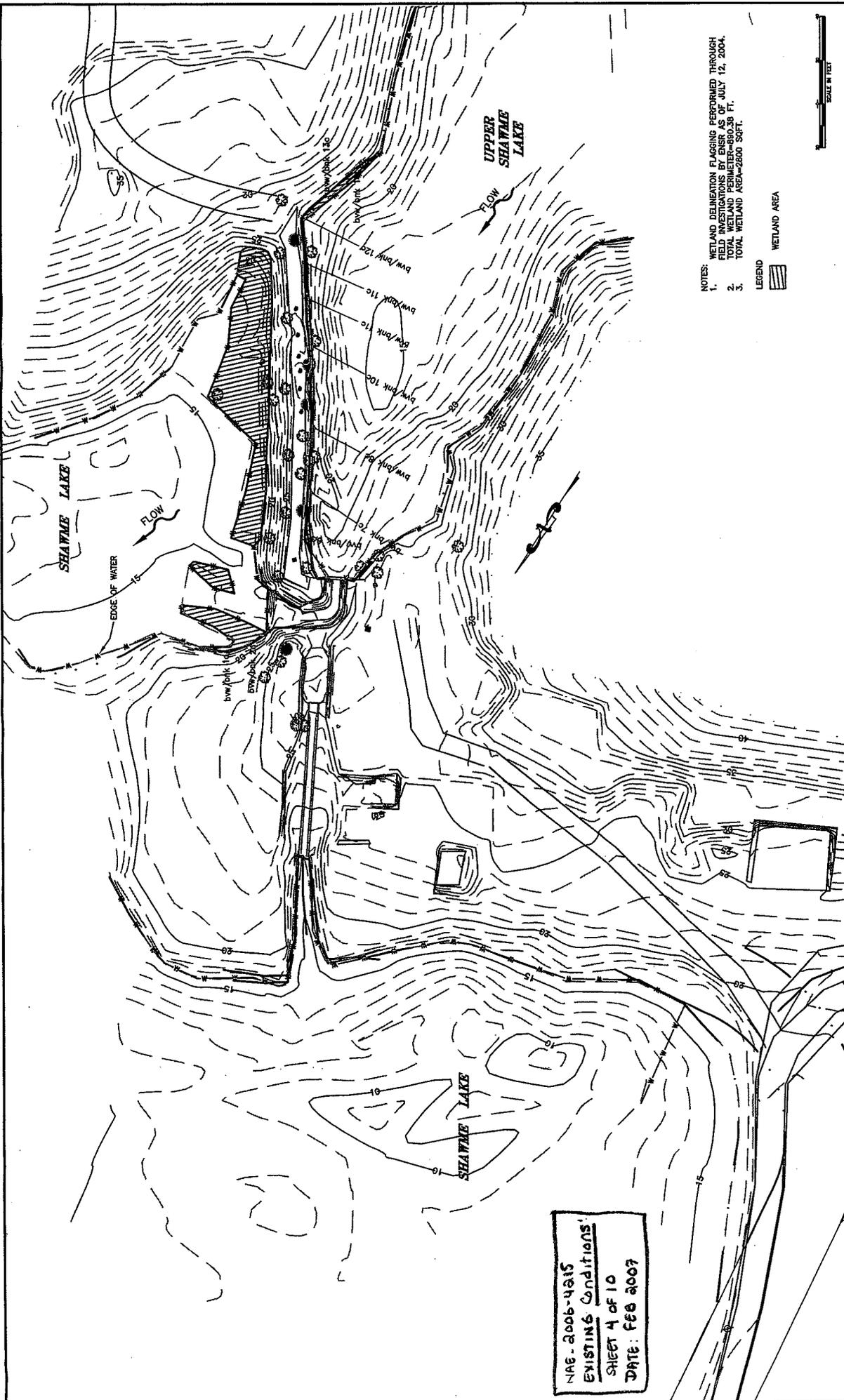
MCM MAHON
 TRANSPORTATION ENGINEERS & PLANNERS

TOWN OF SANDWICH
 MASSACHUSETTS
 UPPER SHAWMEE LAKE DAM

PROPOSED SITE PLAN

DATE: Feb 2007
 SHEET NO. 3 OF 9
 DRAWING NO. XXX

DESIGNED	SCALE
AutoCAD	1"=200'
C.A.S	APPROVED
DATE	
BY	
DESCRIPTION	
REVISIONS	



- NOTES:
1. WETLAND DELINEATION FLAGGING PERFORMED THROUGH FIELD INVESTIGATIONS BY ENSR AS OF JULY 12, 2004.
 2. TOTAL WETLAND PERIMETER=890.38 FT.
 3. TOTAL WETLAND AREA=2500 SQ.FT.

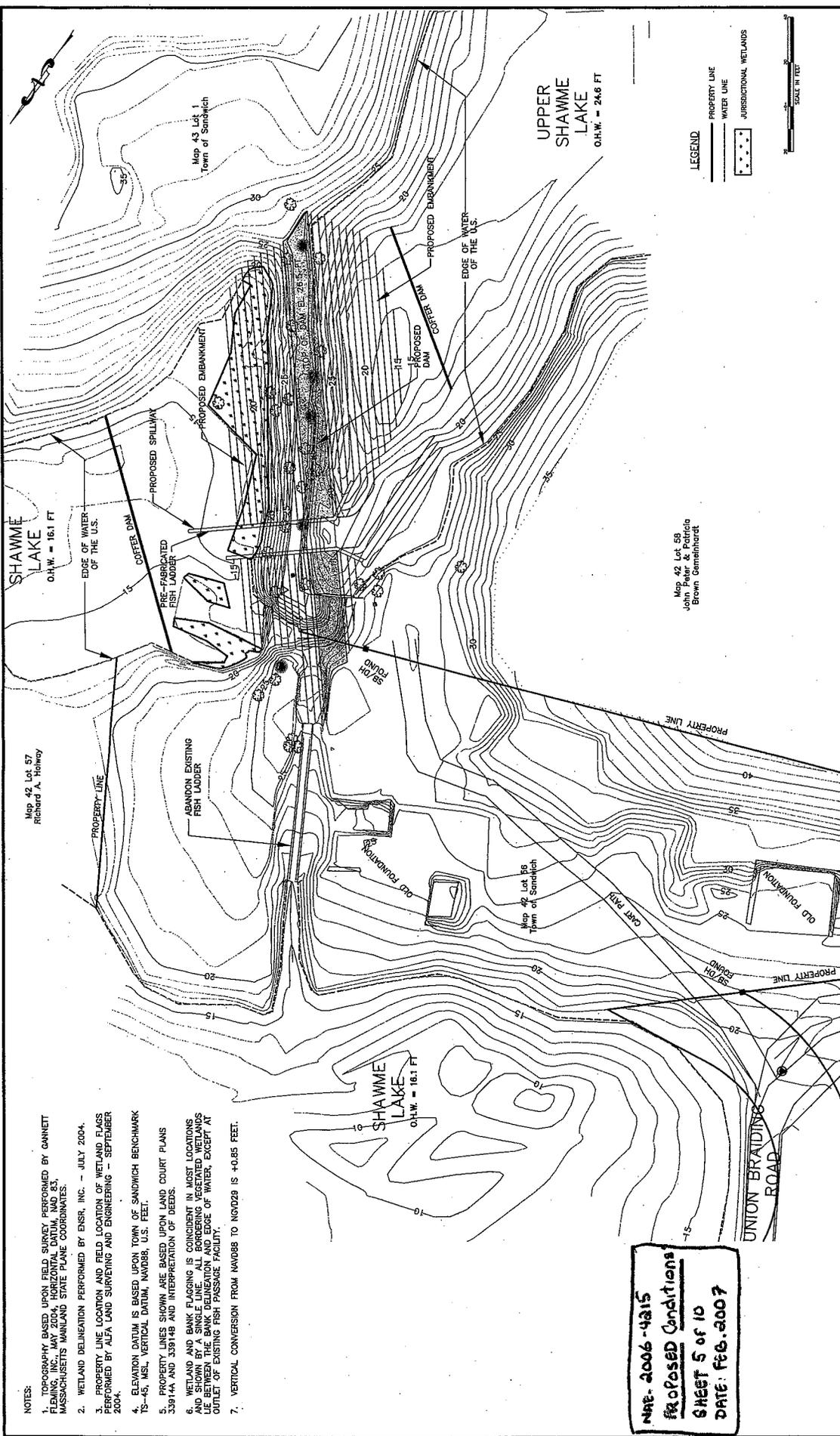
LEGEND

WETLAND AREA



NAS-2006-4015
 EXISTING CONDITIONS
 SHEET 4 OF 10
 DATE: FEB 2007

TOWN OF SANDWICH MASSACHUSETTS		JOB NO. 908547		SHEET NO. 3 OF 6	
UPPER SHAWME LAKE DAM		DATE Feb 2007		DRAWING NO. R-3	
MCMAHON		SCALE 1"=40'		APPROVED	
TRANSPORTATION ENGINEERS & PLANNERS		DRAWN BY C.T.H.		REVISIONS	
DESIGNED BY K.A.S.		CHECKED BY K.A.S.		DATE	
DRAWN BY C.T.H.		CHECKED BY K.A.S.		BY	
DATE		DATE		BY	
BY		BY		BY	



- NOTES:
1. TOPOGRAPHY BASED UPON FIELD SURVEY PERFORMED BY GANNETT & SPOFFORD, INC., 100 STATE STREET, BOSTON, MASSACHUSETTS. HORIZONTAL AND VERTICAL DATUMS ARE MASSACHUSETTS MAINLAND STATE PLANE COORDINATES.
 2. WETLAND DELINEATION PERFORMED BY ENSR, INC. - JULY 2004.
 3. PROPERTY LINE LOCATION AND FIELD LOCATION OF WETLAND FLAGS PERFORMED BY ALFA LAND SURVEYING AND ENGINEERING - SEPTEMBER 2004.
 4. ELEVATION DATUM IS BASED UPON TOWN OF SANDWICH BENCHMARK TS-45, MSL, VERTICAL DATUM, NAVD83, U.S. FEET.
 5. PROPERTY LINES SHOWN ARE BASED UPON LAND COURT PLANS 339144 AND 339148 AND INTERPRETATION OF DEEDS.
 6. WETLAND AND BANK FLAGGING IS COINCIDENT IN MOST LOCATIONS WITH THE PROPERTY LINES. THE LOCATION OF WETLANDS IS BETWEEN THE BANK DELINEATION AND THE EDGE OF WATER, EXCEPT AT THE OUTLET OF EXISTING FISH PASSAGE FACILITY.
 7. VERTICAL CONVERSION FROM NAVD83 TO NGVD29 IS +0.85 FEET.

MNE-2006-4415
for Proposed Conditions
SHEET 5 of 10
DATE: FEB-2007

LEGEND

- PROPERTY LINE
- WATER LINE
- JURISDICTIONAL WETLANDS

SCALE: 1" = 20' FT

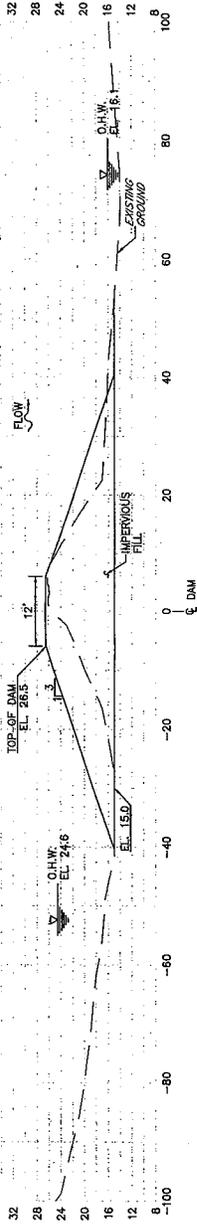
TOWN OF SANDWICH MASSACHUSETTS		SHEET NO. 4 OF 9	
UPPER SHAWME LAKE DAM		DRAWING NO. XXX	
MCMAHON TRANSPORTATION ENGINEERS & PLANNERS		DATE Feb. 2007	
DESIGNED	K.A.S.	CHECKED	J.E.F.
DRAWN	J.E.F.	APPROVED	X
SCALE	AS SHOWN	DATE	
DATE		BY	
DESCRIPTION		DATE	
NO.		BY	

Map 42, Lot 57
Richard A. Holway

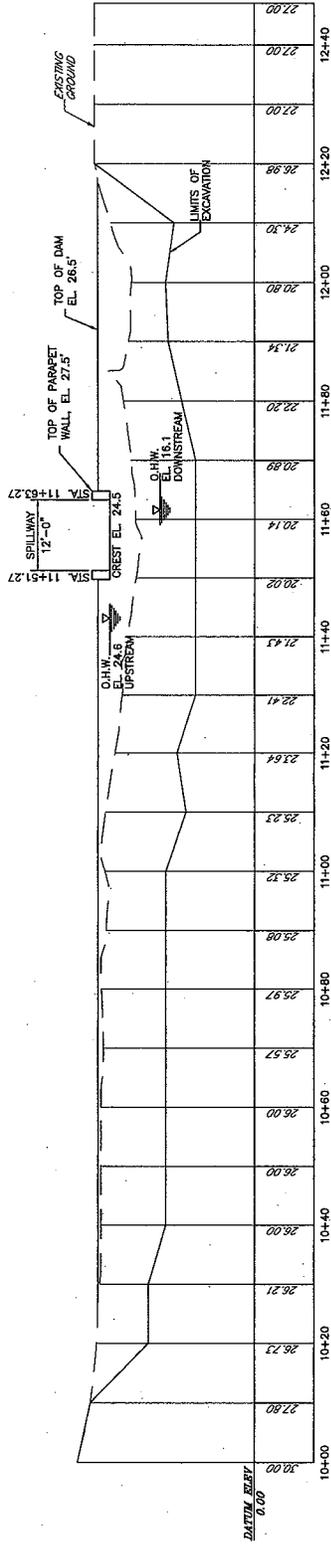
Map 42, Lot 59
John Peter & Patricia
Brown Gemehardt

Map 43, Lot 1
Town of Sandwich

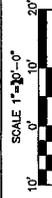
11+00



TYPICAL SECTION

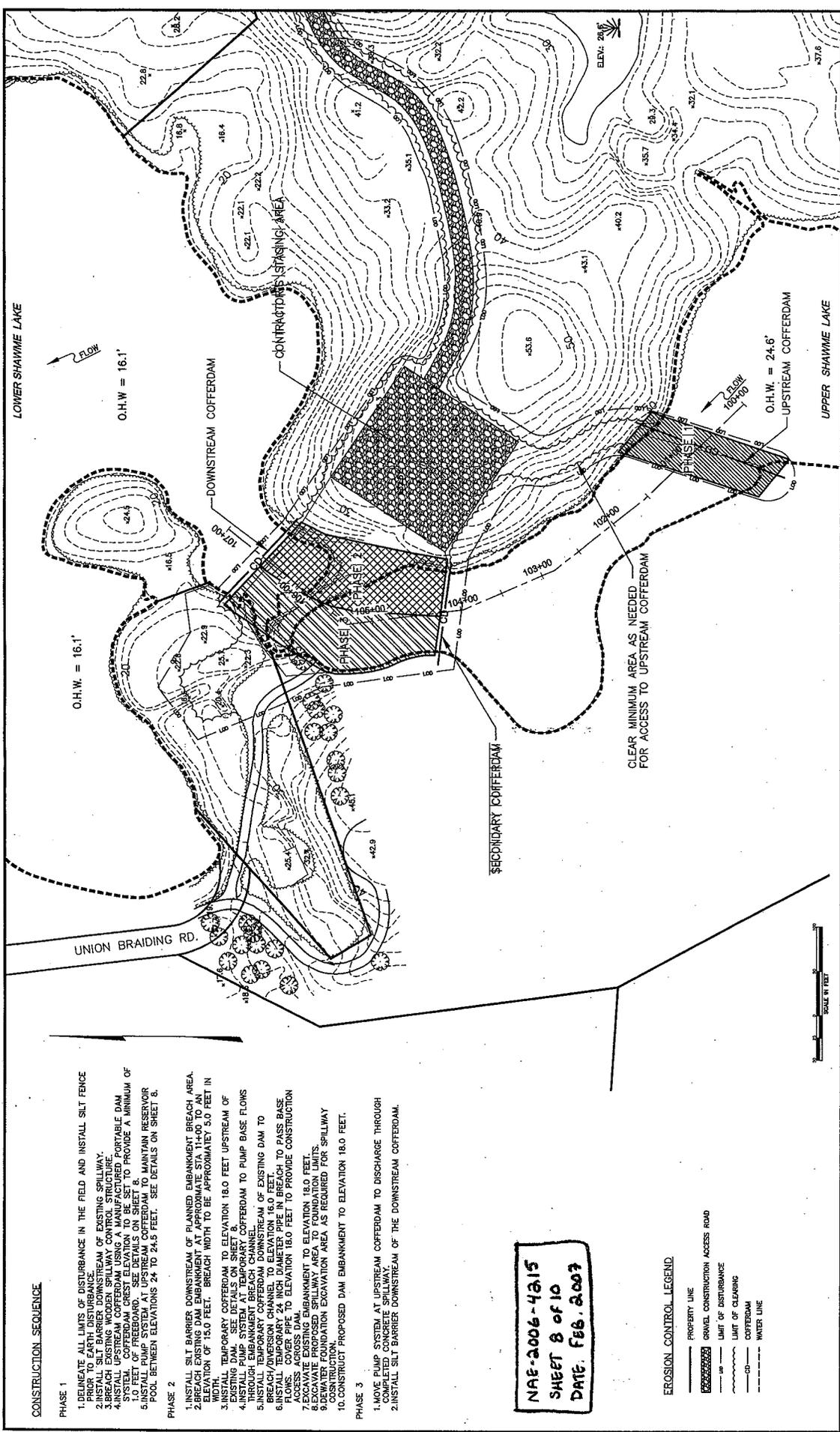


CENTERLINE PROFILE



NAE-2006-4415
 SHEET 6 OF 10
 DATE: FEB. 2007

JOB NO. 906547		SHEET NO. 5 OF 9	
DATE Feb. 2007		DRAWING NO. .XXX	
TOWN OF SANDWICH MASSACHUSETTS		DAM PROFILE & TYPICAL SECTION	
UPPER SHAWMEE LAKE DAM			
DESIGNED K.A.S.	CHECKED J.E.F.	SCALE APPROVED X	
DATE I. RT.	DATE I. RT.		
DESCRIPTION	DESCRIPTION		
REVISION	REVISION		



 TRANSPORTATION ENGINEERS & PLANNERS		TOWN OF SANDWICH MASSACHUSETTS UPPER SHAWME LAKE DAM		DEWATERING SITE PLAN	
SHEET NO. 7 OF 9	JOB NO. 906547	DATE Feb 2007	DRAWING NO. XXX		
DESIGNED K.A.S.	CHECKED J.E.F.	DATE 1/11/07	BY J.E.F.	SCALE AS SHOWN	APPROVED X
NO.	DESCRIPTION	DATE	BY	SCALE	APPROVED

CONSTRUCTION SEQUENCE

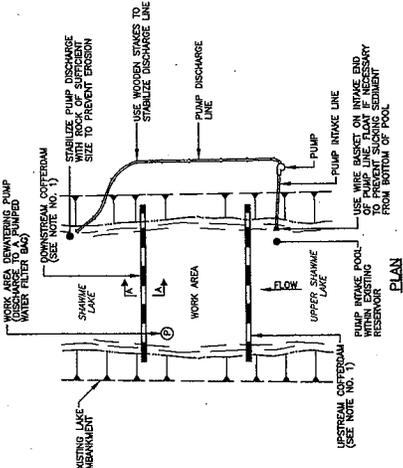
- PHASE 1**
1. DELINEATE ALL LIMITS OF DISTURBANCE IN THE FIELD AND INSTALL SILT FENCE THROUGHOUT THE ENTIRE DISTURBANCE AREA.
 2. INSTALL SILT BARRIER DOWNSTREAM OF EXISTING SPILLWAY.
 3. BREACH EXISTING WOODEN SPILLWAY CONTROL STRUCTURE.
 4. INSTALL UPSTREAM COFFERDAM USING A MANUFACTURED PORTABLE DAM SYSTEM TO PROVIDE A MINIMUM OF 10 FEET OF FREEBOARD. SEE DETAILS ON SHEET 8.
 5. INSTALL PUMP SYSTEM AT UPSTREAM COFFERDAM TO MAINTAIN RESERVOIR POOL BETWEEN ELEVATIONS 24 TO 24.5 FEET. SEE DETAILS ON SHEET 8.
- PHASE 2**
1. INSTALL SILT BARRIER DOWNSTREAM OF PLANNED EMBANKMENT BREACH AREA.
 2. BREACH EXISTING WOODEN SPILLWAY CONTROL STRUCTURE TO A MINIMUM OF 18.0 FEET. BREACH WIDTH TO BE APPROXIMATELY 50 FEET IN WIDTH.
 3. INSTALL TEMPORARY COFFERDAM TO ELEVATION 18.0 FEET UPSTREAM OF BREACH.
 4. INSTALL PUMP SYSTEM AT TEMPORARY COFFERDAM TO PUMP BASE FLOWS THROUGH EMBANKMENT BREACH CHANNEL.
 5. INSTALL TEMPORARY COFFERDAM DOWNSTREAM OF EXISTING DAM TO MAINTAIN RESERVOIR POOL BETWEEN ELEVATIONS 24 TO 24.5 FEET. SEE DETAILS ON SHEET 8.
 6. BREACH EXISTING CHANNEL TO ELEVATION 18.0 FEET TO PROVIDE CONSTRUCTION ACCESS TO THE BREACH TO PASS BASE FLOWS THROUGH BREACH TO PASS BASE FLOWS.
 7. ACCESS ACROSS DAM.
 8. EXCAVATE PROPOSED SPILLWAY AREA AS REQUIRED FOR SPILLWAY CONSTRUCTION.
 9. DEWATER FOUNDATION EXCAVATION AREA AS REQUIRED FOR SPILLWAY CONSTRUCTION.
 10. CONSTRUCT PROPOSED DAM EMBANKMENT TO ELEVATION 18.0 FEET.
- PHASE 3**
1. MOVE PUMP SYSTEM AT UPSTREAM COFFERDAM TO DISCHARGE THROUGH COMPLETED CONCRETE SPILLWAY.
 2. INSTALL SILT BARRIER DOWNSTREAM OF THE DOWNSTREAM COFFERDAM.

NAE-2006-4215
SHEET 8 OF 10
DATE: FEB. 2007

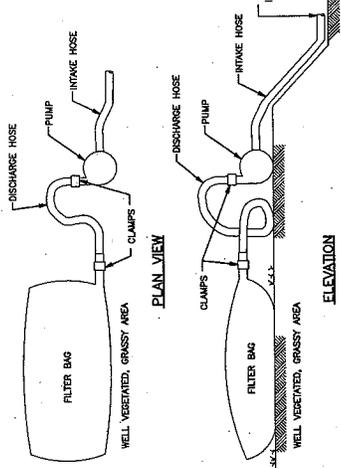
EROSION CONTROL LEGEND

- PROPERTY LINE
- GRAVEL CONSTRUCTION ACCESS ROAD
- LIMIT OF DISTURBANCE
- LIMIT OF CLEARING
- COFFERDAM
- WATER LINE





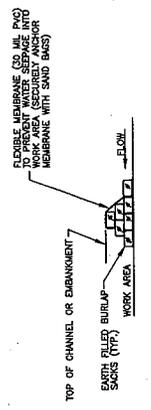
PLAN



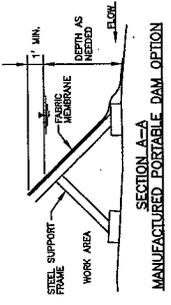
ELEVATION

NOT TO SCALE

- EMULSED WATER FILTER BAG NOTES**
- IF REQUIRED, CONSTRUCT FACILITY IN ACCORDANCE WITH THE DRAWINGS AND SHALL BE SHOWN ON THE DRAWINGS. PROVIDE ENVIRONMENTAL, DORTMAG 51, 53 OR 55 OR EQUIVALENT.
 - PROVIDER SHALL VERIFY LOCATION OF FACILITY WITH ENGINEER PRIOR TO CONSTRUCTION OF SAID FACILITY. FACILITY SHALL BE PLACED AT A LOCATION THAT WILL NOT INTERFERE WITH ONGOING CONSTRUCTION ACTIVITIES OR OPERATIONS. FACILITY SHALL BE PLACED ON GRASSY AREAS AND DISCHARGE ONTO STABLE SLOPES ON SLOPES GREATER THAN FIVE PERCENT. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR ONE HALF THE MAXIMUM RATE SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS.
 - SEED AND FERTILIZER SHALL BE REMOVED FROM THE FACILITY. SEED SHALL BE SUPPLIED ON-SITE FOR USE ON WHICH HAVE FAILED.
 - SEEDMENT COLLECTED FROM THE FACILITY SHALL BE REMOVED AND USED FOR ON-SITE GRASSING AND NOT REUSED ON WHICH HAVE FAILED.
 - REMOVE FACILITY WITH NO LINGERING MATERIALS AND UNSTABLE SEDIMENT AND OTHER SALVAGE OR DISPOSE OF PROPERLY. FACILITY SHALL BE REMOVED AND RECONSTRUCTED BY THE FACILITY.



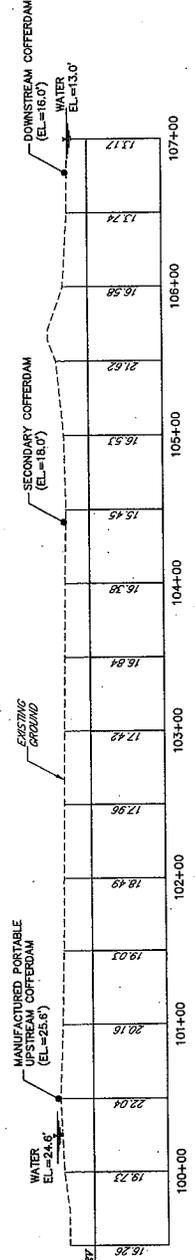
SECTION A-A SAND BAG COFFERDAM



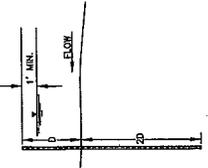
SECTION A-A MANUFACTURED PORTABLE DAM COFFERDAM

TEMPORARY STREAM DIVERSION AND COFFERDAM

NOT TO SCALE



PROFILE ALONG DIVERSION



SECTION A-A SHEET PILE COFFERDAM OPTION

CONSTRUCTION SEQUENCE NOTES FOR TEMPORARY COFFERDAM FACILITY

- CONTRACTOR TO PROVIDE EMISSIONS OF WATER PLAN TO THE ENGINEER FOR APPROVAL. PLAN SHALL PROVIDE DETAILS OF COFFERDAM MATERIAL, COFFERDAM LOCATIONS AND SEQUENCING. ALL DEVIATIONS FROM THE APPROVED PLAN SHALL BE APPROVED BY THE ENGINEER AND THE REASONING THEREFOR TO BE SUBMITTED TO THE ENGINEER.
- INSTALLATION OF SAND BAG COFFERDAMS BY HAND. BED AND BANKS DURING THE COFFERDAM DEWATERING THE WORK AREA WITHIN THE COFFERDAM BY PUMPING INTO SHAWMEE LAKE RESERVOIR. ENSURE THAT THE PUMPED OUTFLOW DOES NOT CAUSE EROSION AT THE DISCHARGE LOCATION. THE PUMPED OUTFLOW SHALL BE PLACED ON SLOPES GREATER THAN FIVE PERCENT.
- COLLECTORS WITHIN THE WORK AREA IS TO BE PUMPED TO A PUMPED WATER FILTER BAG BEFORE BEING DISCHARGED FROM THE SITE.
- AFTER CONSTRUCTION IS COMPLETED, PERMANENTLY STABILIZE ALL DISTURBED AREAS, REMOVE ALL SEDIMENT DEPOSITS FROM THE DEWATERED WORK AREA AND REMOVE THE TEMPORARY COFFERDAMS.
- DOSE SHALL BE TAKEN TO MINIMIZE DISTURBANCE OF THE RESERVOIR BED AND BANKS DURING THE COFFERDAM REMOVAL OPERATIONS.

NAE-2006-4215
SHEET 9 of 10
DATE: FEB. 2007



TOWN OF SANDWICH MASSACHUSETTS
UPPER SHAWMEE LAKE DAM

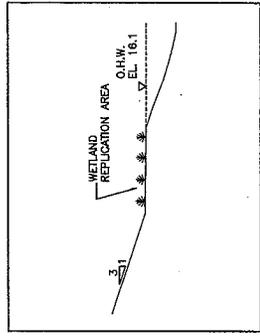
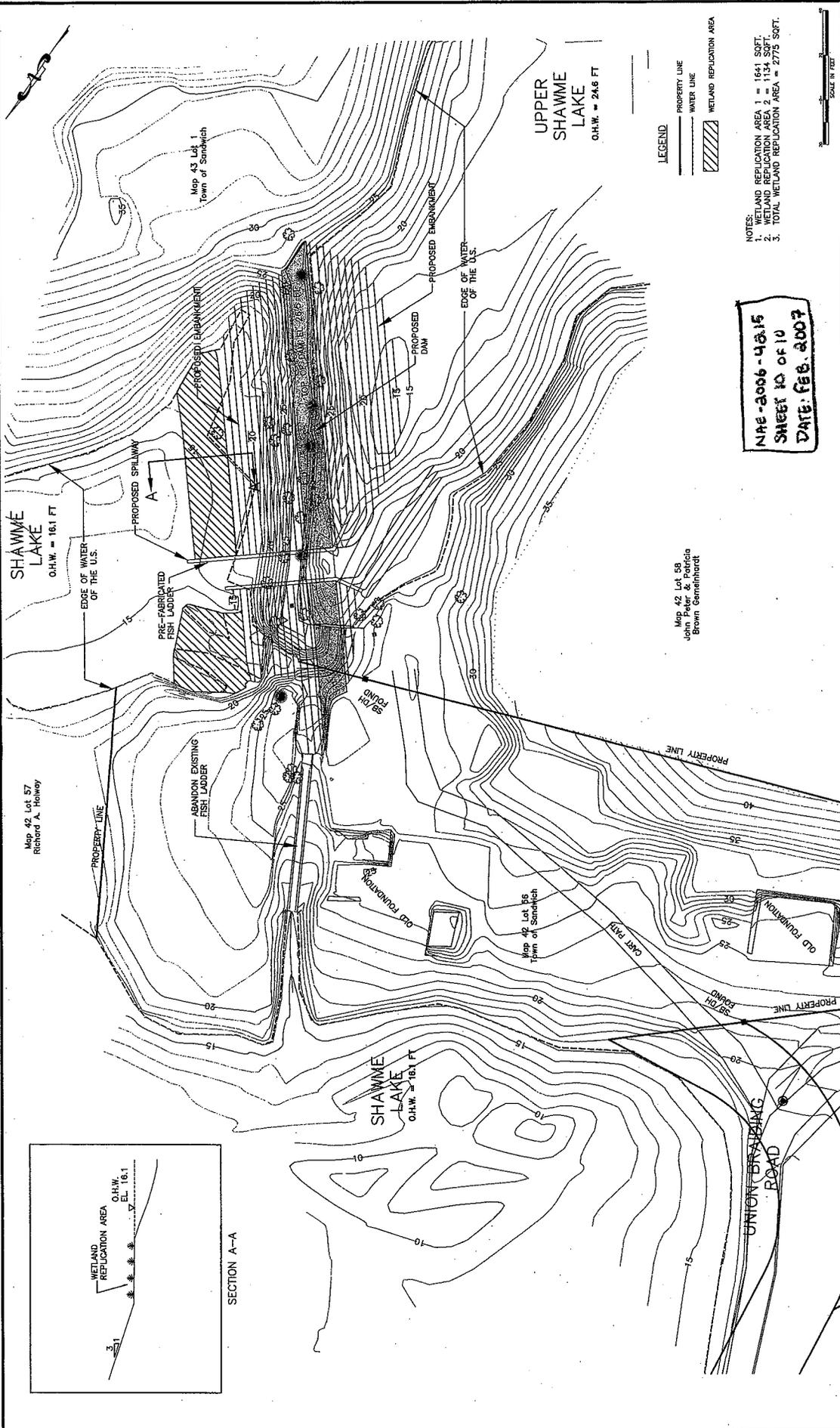
CARE AND DIVERSION OF WATER DETAILS

SHEET NO.	8 OF 9
DATE	FEB 2007
DRAWING NO.	XXX

SCALE	AS NOTED
AS NOTED	PERFORMED
PERFORMED	X

DESIGNED	K.A.S.
DRAWN	J.E.P.

NO.	DESCRIPTION	DATE BY



LEGEND
 — PROPERTY LINE
 - - - WATER LINE
 [Hatched] WETLAND REPLICATION AREA

NOTES:
 1. WETLAND REPLICATION AREA 1 = 1641 SQ.FT.
 2. WETLAND REPLICATION AREA 2 = 1134 SQ.FT.
 3. TOTAL WETLAND REPLICATION AREA = 2775 SQ.FT.

NAE-2006-4016
SHEET 10 OF 10
DATE: FEB. 2007

SCALE IN FEET
 0 10 20 30

DESIGNED		CHECKED		SCALE		SHEET NO.	
K.A.S.	J.E.F.	AutocAD	X	AS SHOWN	9 OF 9	TOWN OF SANDWICH MASSACHUSETTS	
DRAWN		APPROVED		DATE		DRAWING NO.	
J.E.F.		X		FEB. 2007		XXX	
PROJECT TITLE				PROJECT DESCRIPTION			
UPPER SHAWME LAKE DAM				WETLAND REPLICATION PLAN AND SECTION			
ENGINEER				FIRM			
MCMMAHON				TRANSPORTATION ENGINEERS & PLANNERS			