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# PUBLIC NOTICE



**US Army Corps  
of Engineers**®  
New England District  
696 Virginia Road  
Concord, MA 01742-2751

**Comment Period Begins: October 18, 2011**  
**Comment Period Ends: November 18, 2011**  
**File Number: NAE-2011-1351**  
**In Reply Refer To: John Sargent**  
**Phone: (978) 318-8026**  
**E-mail: john.c.sargent@usace.army.mil**

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The District Engineer has received a permit application from the applicant below to conduct work in waters of the United States as described below.

## **APPLICANT**

Longmeadow Country Club, Attn: Richard Darby, 400 Shaker Road, Longmeadow, Massachusetts 01106

## **ACTIVITY**

The Country Club proposes the excavation of about 8,000 cubic yards of sediment in about 2.1 acres from the pond bottom in order to deepen the pond and maintain its open water character for irrigational uses at the golf course. Discharge of dredge or fill material would occur from the placing of swamp mats on the dewatered pond bottom for equipment access and the grading of the pond bottom with excavators in a 2.1 acre area of the pond. The excavated sediment would be trucked off-site and disposed at an upland disposal area. The 3.3 acre pond would be dewatered using the pond drain and a pump and bypass system in order for excavators and dump trucks to access the pond.

The work is described on the enclosed plans entitled "COUNTRY CLUB POND SEDIMENT REMOVAL PROJECT LONGMEADOW COUNTRY CLUB LONGMEADOW, MA," on 9 sheets, and dated "(AUGUST, 2011)."

## **WATERWAY AND LOCATION OF THE PROPOSED WORK**

This work is proposed in Longmeadow Country Club Pond located at 400 Shaker Road in Longmeadow, Massachusetts 01106. The proposed location on the USGS Springfield South quadrangle sheet is at Lat/Long 42d 2.585', 72d 34.228'.

## **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 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 as amended.

#### **SECTION 106 COORDINATION**

Based on his initial review, the District Engineer has determined that little likelihood exists for the proposed work to impinge upon properties with cultural or Native American significance, or listed in, or eligible for listing in, the National Register of Historic Places. Therefore, no further consideration of the requirements of Section 106 of the National Historic Preservation Act of 1966, as amended, is necessary. This determination is based upon one or more of the following:

- a. The permit area has been extensively modified by previous work.
- b. The permit area has been recently created.
- c. The proposed activity is of limited nature and scope.
- d. Review of the latest published version of the National Register shows that no presence of registered properties listed as being eligible for inclusion therein are in the permit area or general vicinity.
- e. Coordination with the State Historic Preservation Officer and Tribal Historic Preservation Officers.

#### **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 project site. It is our preliminary 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 determination.

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

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

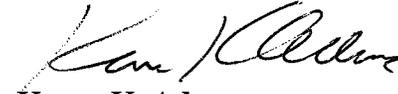
**CENAE-R**  
**FILE NO. NAE-2011-1351**

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 John Sargent at (978) 318-8026, (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.

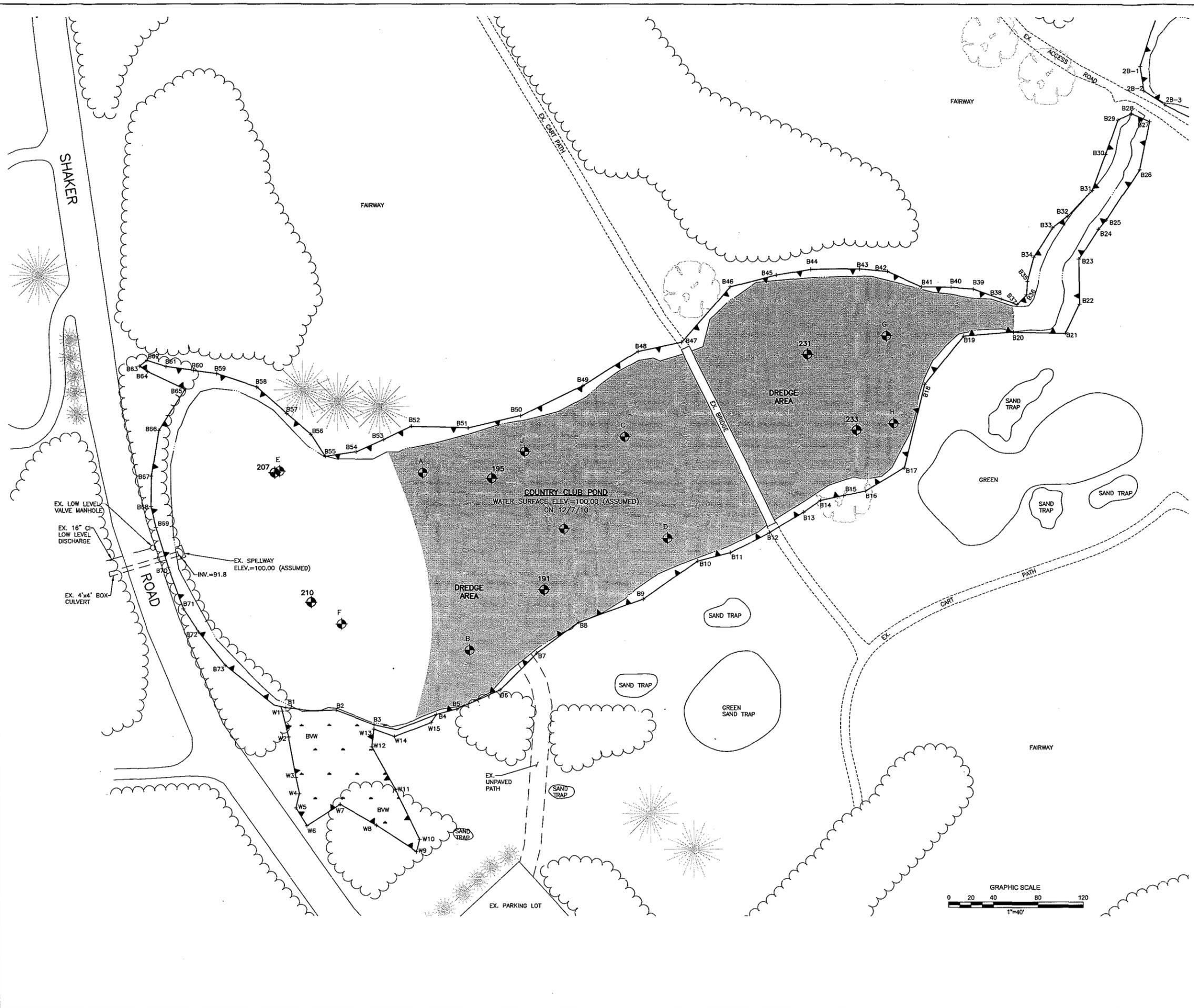
**THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.**

  
**Karen K. 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](mailto: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: \_\_\_\_\_





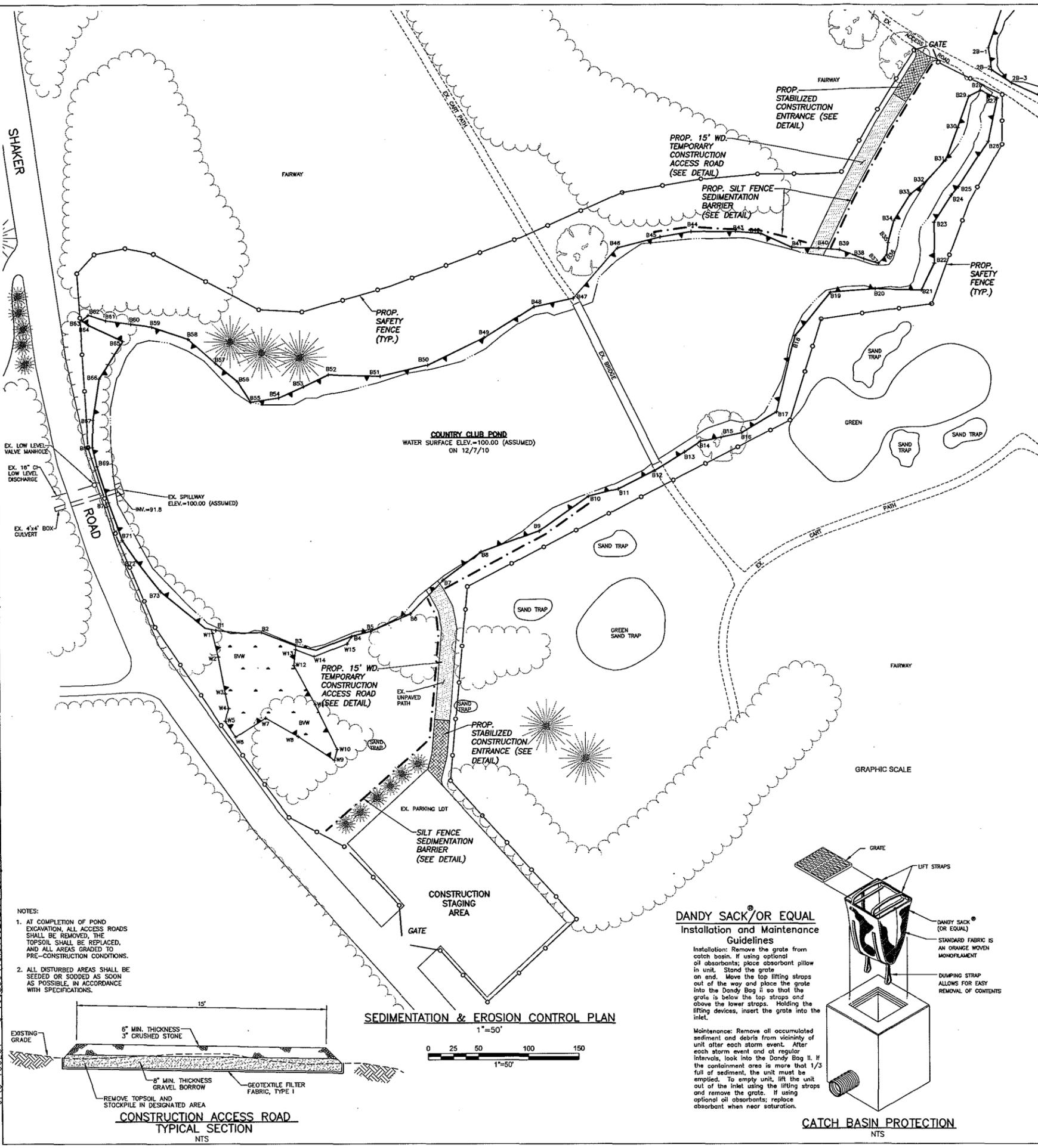
**LEGEND**

- EXISTING ORDINARY HIGH WATER LINE OR FRESHWATER WETLAND
- EXISTING EDGE OF WATER
- EXISTING EDGE OF PAVEMENT
- EXISTING TREE LINE
- SEDIMENT SAMPLE LOCATIONS
- EXISTING TREES

- NOTES:**
- Shoreline location and bathymetry by Lycott Environmental, Inc., 600 Chariton Street, Southbridge, MA 01550 on December 7, 2010. Observed water surface elevation assumed coincident with top of existing spillway, and assumed = elev. 100.00.
  - Wetlands delineated by GZA, Inc. and GPS located by Lycott Environmental on May 11, 2011.
  - Additional base plan information estimated by GZA, Inc. using MassGIS photogrammetry.
  - Horizontal and vertical datums are assumed.
  - The upstream invert of the existing 4'x4' box culvert, relative to an assumed spillway elevation of 100.00, was determined from "No. 6 Hole Dam Phase I Inspection/Evaluation Report" by Tighe & Bond, dated November 2, 2006.
  - Laboratory analysis of collected sediments was performed on composites of materials gathered at Waypoints 191, 195, 207, 210, 231, and 233. Samples obtained by Lycott Environmental, Inc. on December 7, 2010.
    - Lab Sample # 10L0438-01 = Composite of Waypoints 191 & 195
    - Lab Sample # 10L0438-02 = Composite of Waypoints 207 & 210
    - Lab Sample # 10L0438-03 = Composite of Waypoints 231 & 233
  - Laboratory analysis of additional collected sediments was performed on composites of materials gathered at A,B,C,D,E,F,G,H,I,&J. Samples obtained by Lycott Environmental, Inc. on May 11, 2011.
    - Lab Sample # 28592-01 & 28592-07 = Composite of A & B
    - Lab Sample # 28592-02 & 28592-08 = Composite of C & D
    - Lab Sample # 28592-03 & 28592-09 = Composite of E & F
    - Lab Sample # 28592-04 & 28592-10 = Composite of G & H
    - Lab Sample # 28592-05 & 28592-11 = Composite of I & J

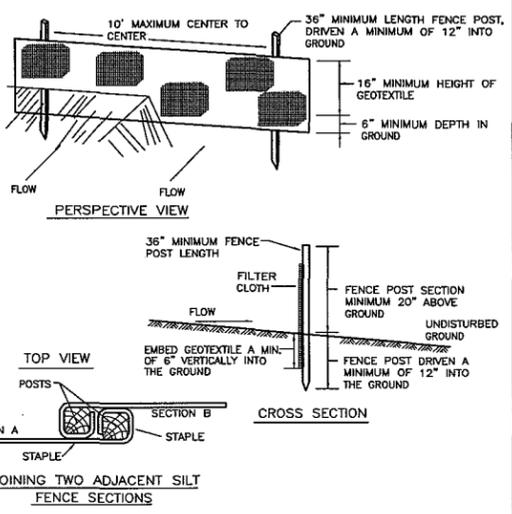
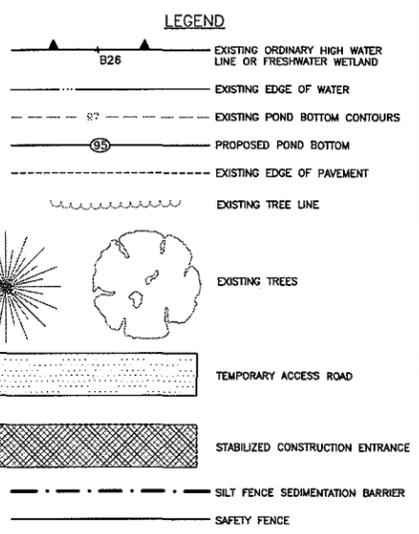
NO.	ISSUE/DESCRIPTION	BY	DATE
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<b>COUNTRY CLUB POND-SEDIMENT REMOVAL PROJECT</b> <b>LONGMEADOW COUNTRY CLUB</b> <b>LONGMEADOW, MA</b>			
<b>EXISTING CONDITIONS</b>			
PREPARED BY: <b>GZA GeoEnvironmental, Inc.</b> Engineers and Scientists www.gza.com		PREPARED FOR: <b>LONGMEADOW COUNTRY CLUB</b> 400 SHAKER ROAD LONGMEADOW, MASSACHUSETTS	
PROJ MGR: BH DESIGNED BY: STD DATE: AUGUST, 2011	REVIEWED BY: STD DRAWN BY: EDM PROJECT NO.: 15.0166232.00	CHECKED BY: TEJ SCALE: 1"=40' REVISION NO.:	SHEET <b>2</b> SHEET NO. 2 OF 9

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**SEDIMENT AND EROSION CONTROL NOTES:**

- SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
- THE CONTRACTOR SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE SEDIMENT AND EROSION CONTROL (SEEC) PLAN PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES. SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES, AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASURES UNTIL THE AREAS DRAINING TO THEM ARE FINAL STABILIZED. THE CONTRACTOR SHALL INSPECT DAILY AND MAINTAIN CONTINUOUSLY IN EFFECTIVE OPERATING CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIME AS THEY ARE REMOVED. CONDUCT INSPECTIONS AND REPORTING IN ACCORDANCE WITH ALL PERMITS.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES (BMPs) TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION. THE CONTRACTOR SHALL INSTALL AND MAINTAIN, AT NO ADDITIONAL COST TO THE OWNER, ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY FOR PERMIT COMPLIANCE BY THE CONTRACTOR, THE OWNER AND/OR THEIR REPRESENTATIVES, OR BY FEDERAL/STATE/LOCAL GOVERNMENT INSPECTORS.
- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH APPLICABLE PUBLISHED STANDARDS AND SPECIFICATIONS AND THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS: A GUIDE FOR PLANNERS, DESIGNERS, AND MUNICIPAL OFFICIALS" (MA DEP, MAY 2003).
- CONSTRUCTION ENTRANCE(S) SHALL BE INSTALLED CONCURRENTLY WITH THE INITIATION OF CLEARING AND GRUBBING OPERATIONS. THE CONTRACTOR SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVELLED PUBLIC THOROUGHFARES. ALL MATERIALS DEPOSITED ONTO PUBLIC THOROUGHFARES SHALL BE REMOVED IMMEDIATELY.
- ALL SEDIMENT BASINS, TRAP EMBANKMENTS, SANDS, PERIMETER DIKES, AND PERMANENT SLOPES STEEPER OR EQUAL TO 3:1 SHALL BE STABILIZED WITH SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES, WITHIN SEVEN (7) CALENDAR DAYS OF ESTABLISHMENT. NO AREAS OUTSIDE OF THE PERIMETER SEDIMENT CONTROL BARRIER OR LIMIT OF WORK SHALL BE DISTURBED.
- THE CONTRACTOR SHALL APPLY SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES TO ALL DISTURBED AREAS WITHIN 14 CALENDAR DAYS AFTER STRIPPING AND GRUBBING ACTIVITIES HAVE CEASED ON THAT AREA. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION. ACTIVE CONSTRUCTION AREAS, SUCH AS BORROW OR STOCKPILE AREAS, ROADWAY IMPROVEMENTS, AND AREAS WITHIN 50 FEET OF A BUILDING UNDER CONSTRUCTION MAY BE EXEMPTED FROM THIS REQUIREMENT PROVIDED THAT EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED AND MAINTAINED TO PROTECT THESE AREAS.
- STOCKPILES WHICH HAVE NOT BEEN USED FOR 14 CALENDAR DAYS, SHALL BE STABILIZED THROUGH THE APPLICATION OF SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES.
- ALL CATCH BASINS OR OTHER DRAIN INLETS WHICH MAY RECEIVE STORMWATER FROM DISTURBED AREAS SHALL BE PROVIDED WITH SUITABLE INLET PROTECTION CONSISTING OF AN OPEN-TOP FILTER FABRIC BAG THAT IS DESIGNED TO HANG UNDERNEATH A STORM GRATE TO FILTER SEDIMENT-LOADED STORMWATER. THESE FILTER BAGS/BAGS SHALL BE INSPECTED WEEKLY, AND AFTER EACH RAIN EVENT AND MAINTAINED AS NOTED IN THE DETAIL.
- EFFLUENT FROM DEWATERING OPERATIONS AND LINE FLUSHING DISCHARGES SHALL BE DIRECTED INTO FIBER MATS, NETTING, RIPRAP, OR NATURALLY OCCURRING COVER TO MINIMIZE EROSION. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE PUMPED EITHER TO SEDIMENT TANKS, SEDIMENT BAGS, AND/OR SEDIMENT TRAPS FOR SEDIMENT REMOVAL. DEWATERING SHALL BE PERFORMED IN ACCORDANCE WITH THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS: A GUIDE FOR PLANNERS, DESIGNERS, AND MUNICIPAL OFFICIALS" AND IN A MANNER THAT DOES NOT ADVERSELY AFFECT AREAS OUTSIDE OF THE LIMIT OF WORK.
- TEMPORARY SEDIMENT TRAP(S) SHALL BE CLEANED OUT AND RESTORED TO ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A POINT ONE HALF (1/2) THE DEPTH BETWEEN THE OUTLET CREST AND THE BOTTOM OF THE TRAP.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING, CALCIUM CHLORIDE, OR OTHER EFFECTIVE MEANS OF CONTROL.
- ALL WASTE MATERIALS GENERATED AT THE SITE SHALL BE IMMEDIATELY REMOVED AND DISPOSED OF OR STORED IN A SECURELY-COVERED CONTAINER IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS. CONTAINER SHALL BE EMPTIED ON A REGULAR BASIS AND AS NECESSARY. NO CONSTRUCTION WASTE OR DEBRIS SHALL BE BURIED ONSITE.
- PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES THE CONTRACTOR SHALL STABILIZE ALL CONTRIBUTORY DISTURBED AREAS USING SOD OR AN APPROVED PERMANENT SEED MIXTURE WITH REQUIRED SOIL AMENDMENTS AND AN APPROVED ANCHORED MULCH. AREAS BUILT TO FINISHED GRADE DURING THE SEEDING SEASON SHALL BE PERMANENTLY STABILIZED WITHIN 14 CALENDAR DAYS OF ESTABLISHMENT. WHEN PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS WHEN PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, AN APPROVED TEMPORARY SEED AND STRAW ANCHORED MULCH OR OTHER ACCEPTABLE MEANS SHALL BE APPLIED TO DISTURBED AREAS.
- TEMPORARY SEDIMENT CONTROL DEVICES SHALL BE REMOVED WITHIN (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS. STORMWATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CLEANED AND CONVERTED TO THEIR PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL. ALL STORM DRAINAGE STRUCTURES, SUMPS, AND PIPES SHALL BE CLEANED OF ALL SEDIMENTS PRIOR TO FINAL PAYMENT.



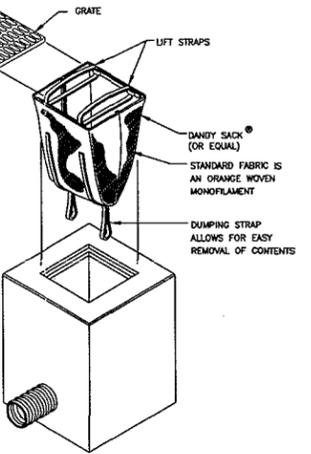
**STABILIZED CONSTRUCTION ENTRANCE SPECIFICATIONS**

- Length - minimum of 50' (\*30' for single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. \*\*The plan approval authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrances, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SDC is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

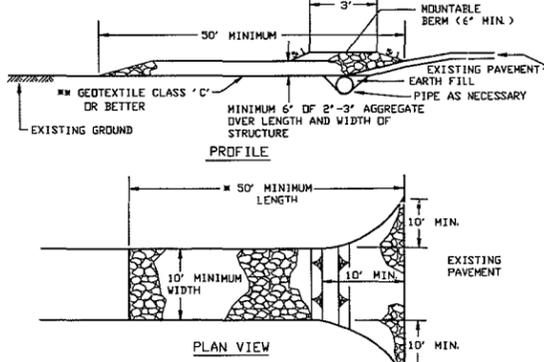
**DANDY SACK®/OR EQUAL Installation and Maintenance Guidelines**

**Installation:** Remove the grate from catch basin. If using optional oil absorbent, place absorbent pillow in unit. Stand the grate on end. Move the top lifting straps out of the way and place the grate into the Dandy Bag so that the grate is below the top straps and above the lower straps. Holding the lifting devices, insert the grate into the inlet.

**Maintenance:** Remove all accumulated sediment and debris from vicinity of unit after each storm event. After each storm event and at regular intervals, look into the Dandy Bag. If the containment area is more than 1/3 full of sediment, the unit must be emptied. To empty unit, lift the unit out of the inlet using the lifting straps and remove the grate. If using optional oil absorbent, replace absorbent when near saturation.

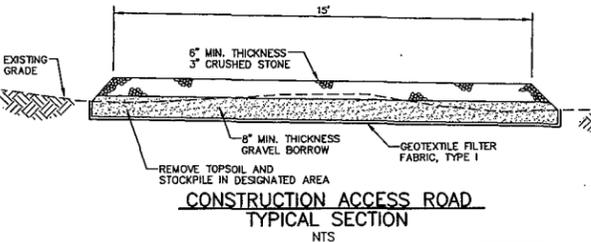


**CATCH BASIN PROTECTION**  
NTS



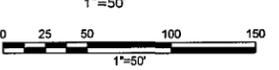
**STABILIZED CONSTRUCTION ENTRANCE**  
NTS

- NOTES:**
- AT COMPLETION OF POND EXCAVATION, ALL ACCESS ROADS SHALL BE REMOVED, THE TOPSOIL SHALL BE REPLACED, AND ALL AREAS GRADED TO PRE-CONSTRUCTION CONDITIONS.
  - ALL DISTURBED AREAS SHALL BE SEED OR SODDED AS SOON AS POSSIBLE, IN ACCORDANCE WITH SPECIFICATIONS.



**CONSTRUCTION ACCESS ROAD TYPICAL SECTION**  
NTS

**SEDIMENTATION & EROSION CONTROL PLAN**



NO.	ISSUE/DESCRIPTION	BY	DATE

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**COUNTRY CLUB POND-SEDIMENT REMOVAL PROJECT**  
LONGMEADOW COUNTRY CLUB  
LONGMEADOW, MA

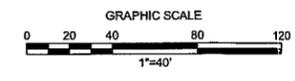
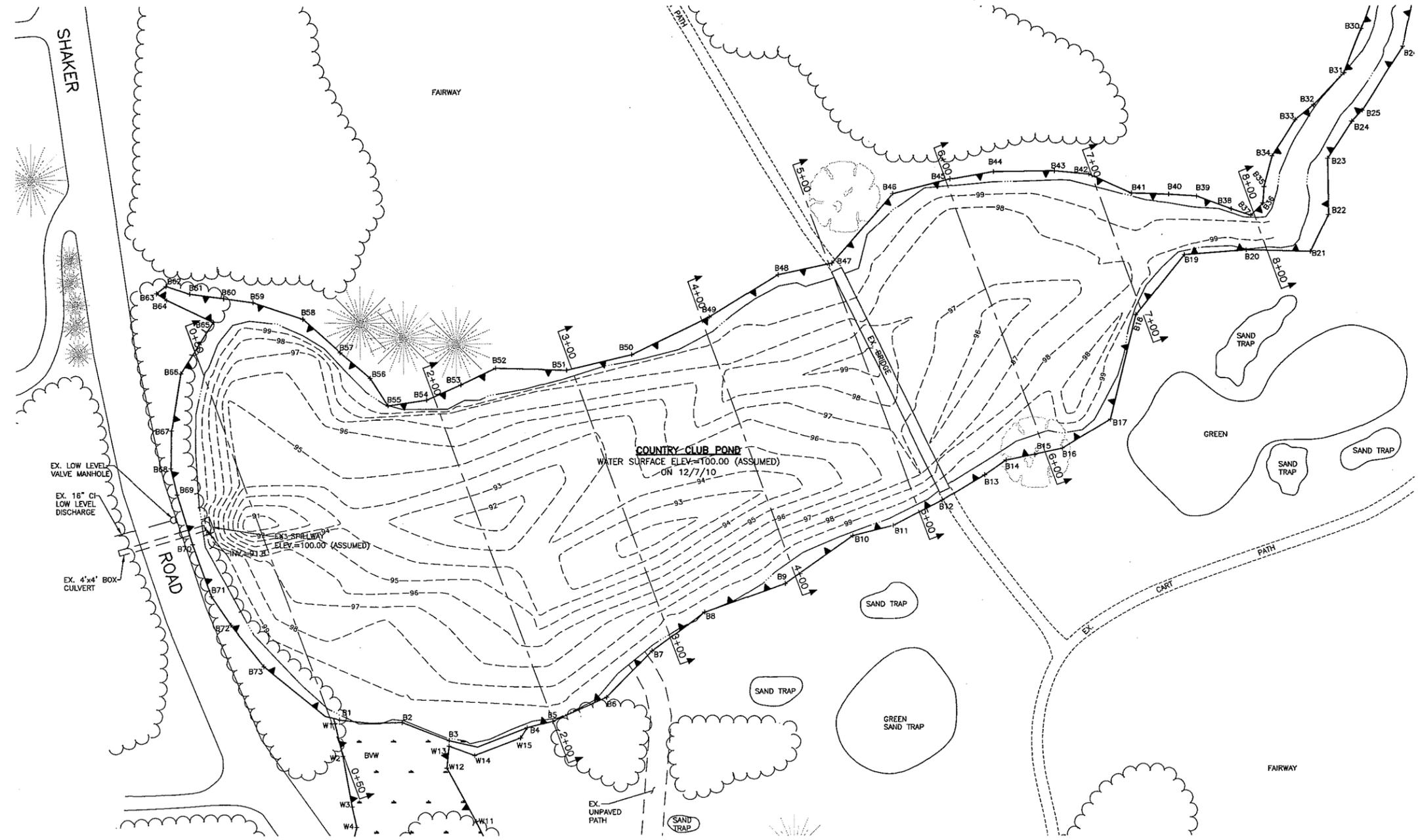
**SEDIMENT & EROSION CONTROL PLAN**

PREPARED BY: <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: LONGMEADOW COUNTRY CLUB 400 SHAKER ROAD LONGMEADOW, MASSACHUSETTS
PROJ MGR: EH DESIGNED BY: STD DATE: AUGUST, 2011	REVIEWED BY: STD DRAWN BY: EDM REVISION NO.: 15.0166232.00
CHECKED BY: TEJ SCALE: AS NOTED	SHEET 3 SHEET NO. 3 OF 9



LEGEND

- B26 EXISTING ORDINARY HIGH WATER LINE OR FRESHWATER WETLAND
- EXISTING EDGE OF WATER
- 97 EXISTING POND BOTTOM CONTOURS
- EXISTING EDGE OF PAVEMENT
- EXISTING TREE LINE
- 4+00 CROSS SECTION LOCATION
- EXISTING TREES



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**COUNTRY CLUB POND-SEDIMENT REMOVAL PROJECT**  
LONGMEADOW COUNTRY CLUB  
LONGMEADOW, MA

**EXISTING POND BOTTOM CONTOURS**

PREPARED BY: <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: LONGMEADOW COUNTRY CLUB 400 SHAKER ROAD LONGMEADOW, MASSACHUSETTS		
PROJ MGR: EH	REVIEWED BY: STD	CHECKED BY: TEJ	SHEET
DESIGNED BY: STD	DRAWN BY: EDM	SCALE: 1"=40'	4
DATE: AUGUST, 2011	PROJECT NO.: 15.0166232.00	REVISION NO.:	

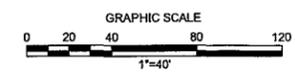
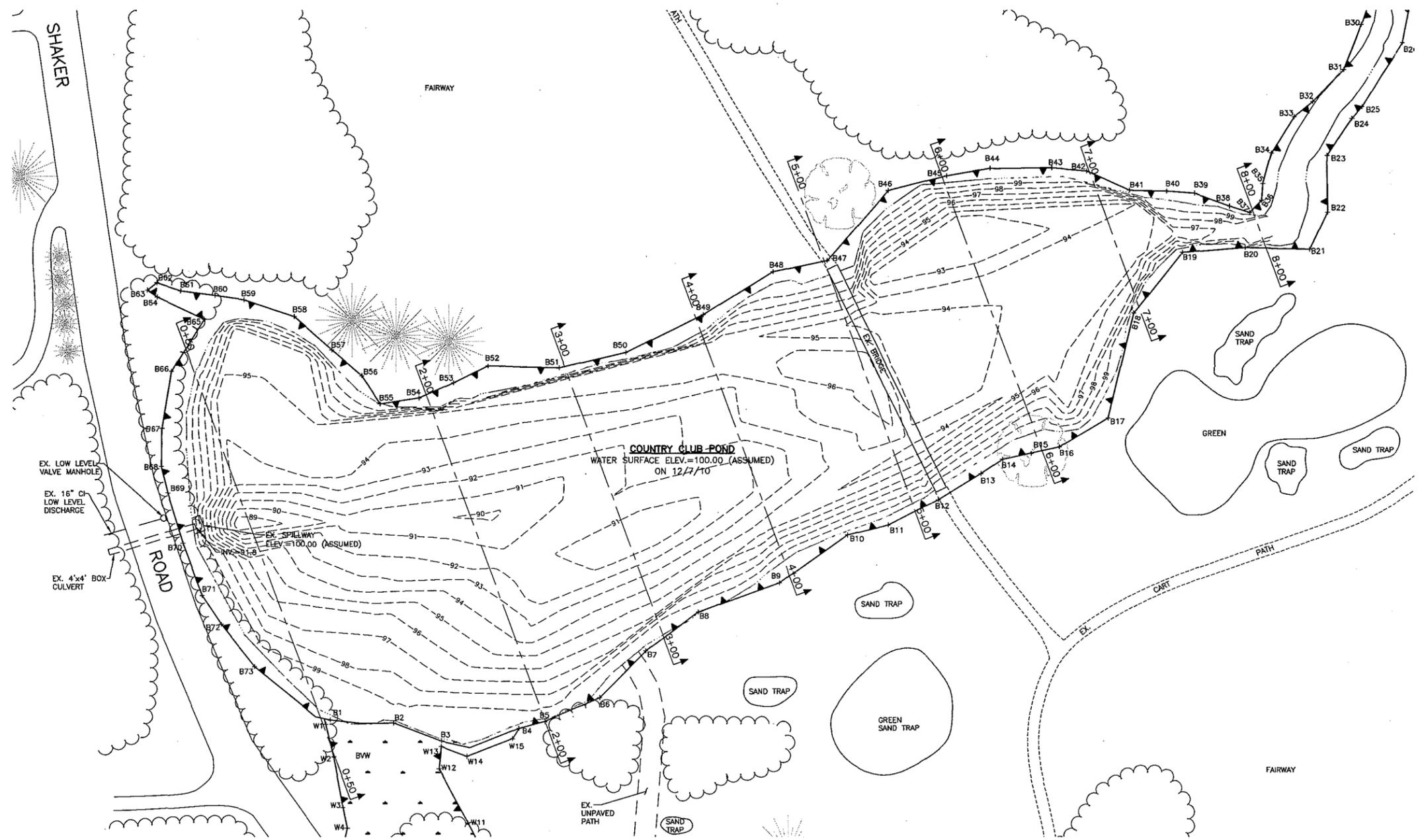
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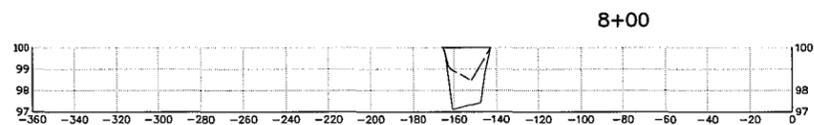
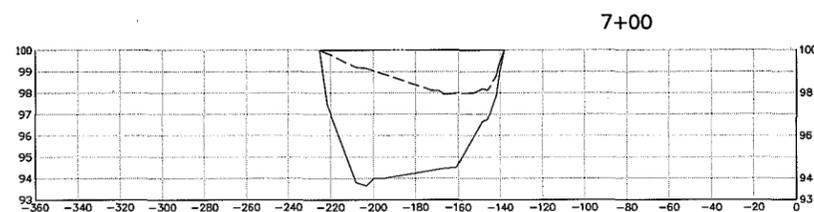
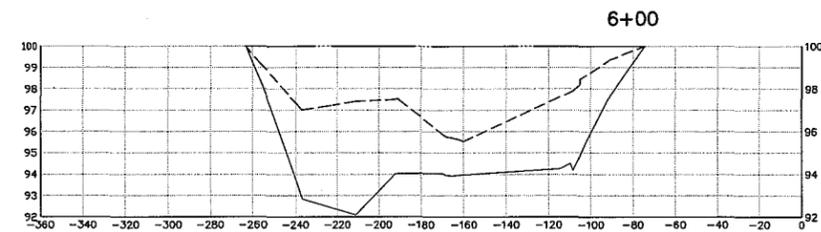
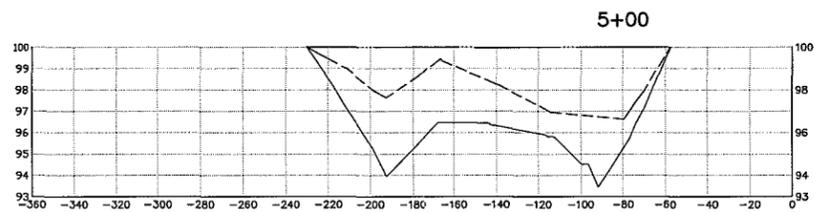
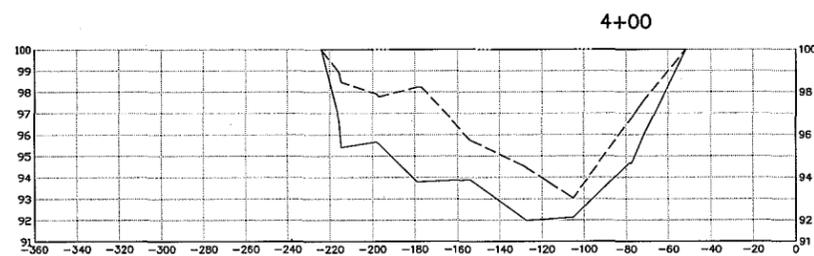
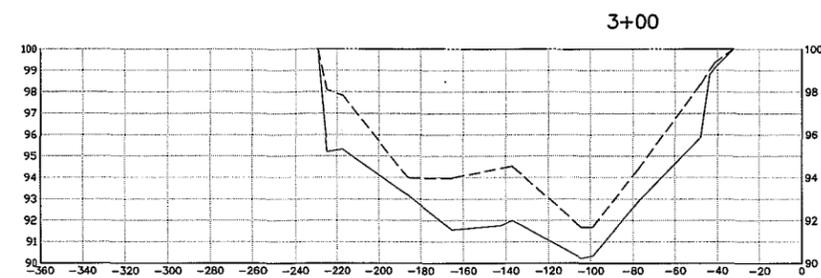
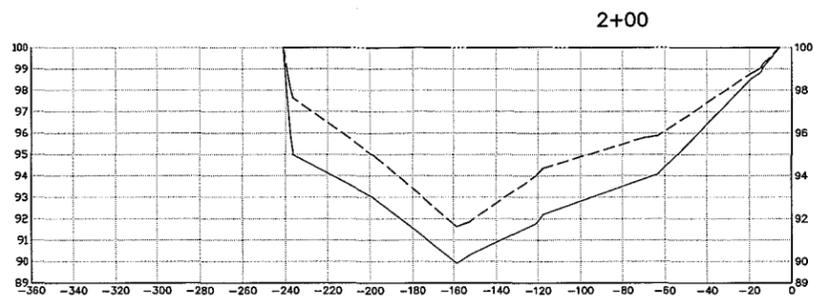
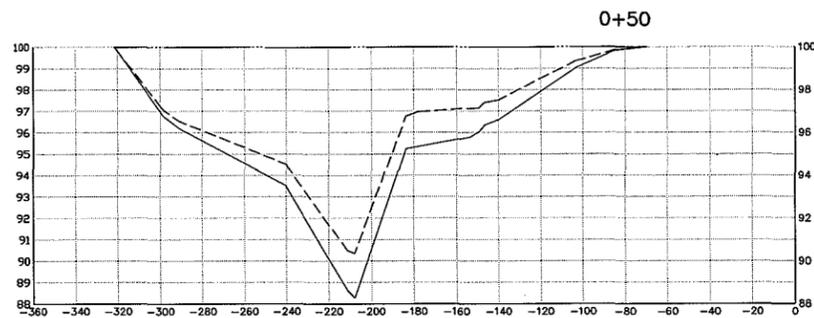
- B26 EXISTING ORDINARY HIGH WATER LINE OR FRESHWATER WETLAND
- EXISTING EDGE OF WATER
- 97 ESTIMATED BOTTOM OF SOFT SEDIMENT CONTOURS
- EXISTING EDGE OF PAVEMENT
- EXISTING TREE LINE
- 4+00 CROSS SECTION LOCATION
- EXISTING TREES



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<b>COUNTRY CLUB POND-SEDIMENT REMOVAL PROJECT</b> <b>LONGMEADOW COUNTRY CLUB</b> <b>LONGMEADOW, MA</b>			
<b>ESTIMATED BOTTOM OF SOFT SEDIMENT CONTOURS</b>			
<small>PREPARED BY:</small> <b>GZA GeoEnvironmental, Inc.</b> Engineers and Scientists www.gza.com		<small>PREPARED FOR:</small> <b>LONGMEADOW COUNTRY CLUB</b> 400 SHAKER ROAD LONGMEADOW, MASSACHUSETTS	
<small>PROJ MGR:</small> EH <small>DESIGNED BY:</small> STD <small>DATE:</small> AUGUST, 2011	<small>REVIEWED BY:</small> STD <small>DRAWN BY:</small> EDM <small>PROJECT NO.:</small> 15.0166232.00	<small>CHECKED BY:</small> TEJ <small>SCALE:</small> 1"=40' <small>REVISION NO.:</small>	<b>SHEET</b> <b>5</b> <small>SHEET NO. 5 OF 9</small>

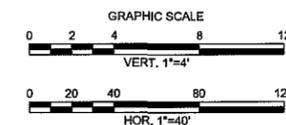
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**LEGEND**

- WATER SURFACE ELEVATION (100.00 ASSUMED)
- - - EXISTING POND BOTTOM
- ESTIMATED BOTTOM OF SOFT SEDIMENTS

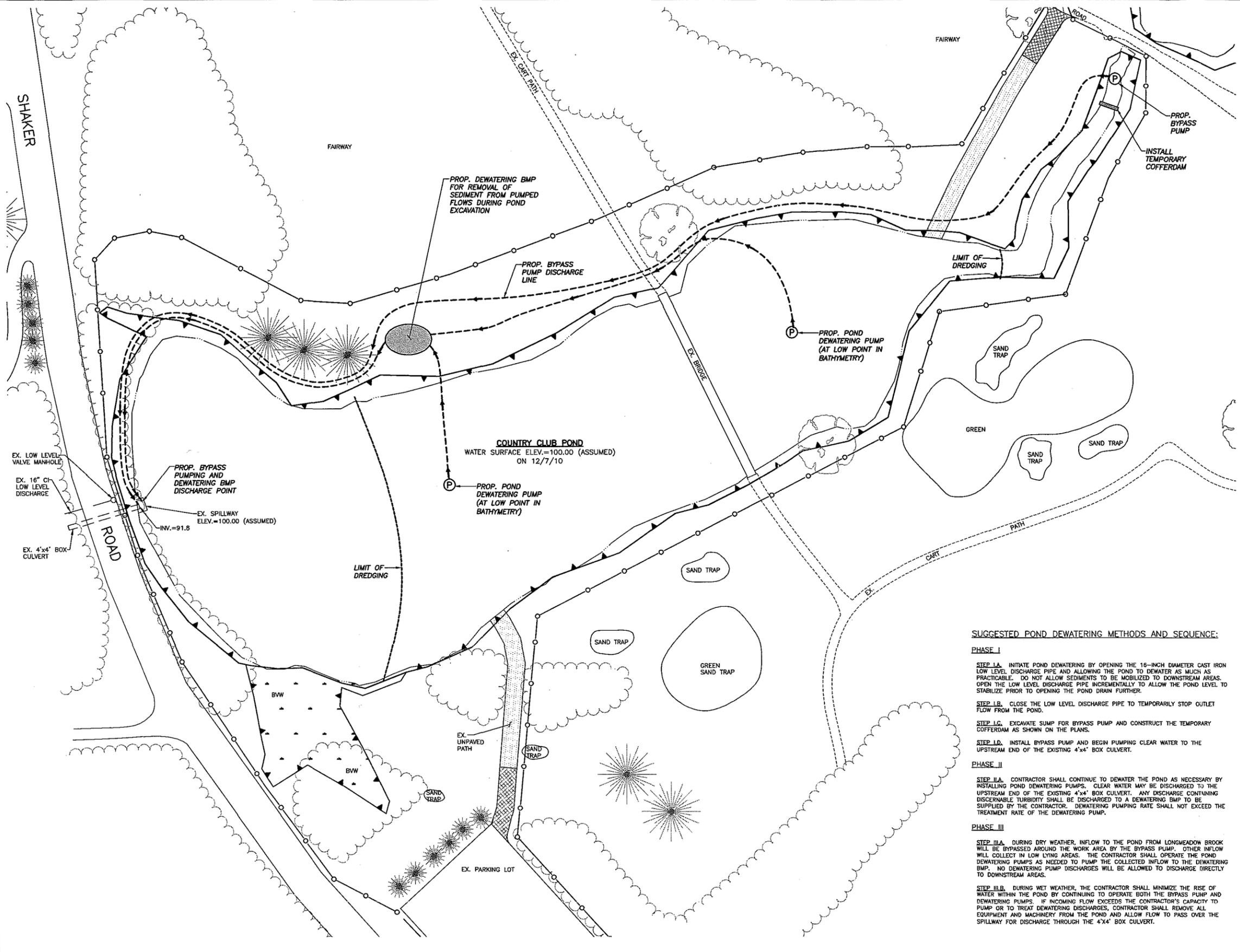


**NOTES:**

1. "EXISTING POND BOTTOM" AS DEPICTED ON THESE CROSS SECTIONS IS BASED ON BATHYMETRIC SOUNDINGS PERFORMED BY LYCOTT ENVIRONMENTAL, INC. ON DECEMBER 7, 2010.
2. "ESTIMATED BOTTOM OF SOFT SEDIMENTS" AS DEPICTED ON THESE CROSS SECTIONS IS BASED ON SEDIMENT THICKNESS PROBINGS PERFORMED BY LYCOTT ENVIRONMENTAL, INC. ON DECEMBER 7, 2010.

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<p>COUNTRY CLUB POND-SEDIMENT REMOVAL PROJECT            LONGMEADOW COUNTRY CLUB            LONGMEADOW, MA</p>			
<p><b>POND CROSS SECTIONS</b></p>			
<p>PREPARED BY:  <b>GZA</b> GeoEnvironmental, Inc.            Engineers and Scientists            www.gza.com</p>		<p>PREPARED FOR:            LONGMEADOW COUNTRY CLUB            400 SHAKER ROAD            LONGMEADOW, MASSACHUSETTS</p>	
<p>PROJ MGR: EH            DESIGNED BY: STD            DATE: AUGUST, 2011</p>	<p>REVIEWED BY: STD            DRAWN BY: EDM            PROJECT NO.: 15.01166232.00</p>	<p>CHECKED BY: TEJ            SCALE: AS NOTED            REVISION NO.:</p>	<p>SHEET  <b>6</b>            SHEET NO. 6 OF 9</p>

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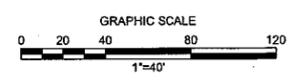
**LEGEND**

- B26 EXISTING ORDINARY HIGH WATER LINE OR FRESHWATER WETLAND
- EXISTING EDGE OF WATER
- 97 EXISTING POND BOTTOM CONTOURS
- 95 PROPOSED POND BOTTOM
- EXISTING EDGE OF PAVEMENT
- EXISTING TREE LINE
- EXISTING TREES
- TEMPORARY ACCESS ROAD
- STABILIZED CONSTRUCTION ENTRANCE
- SAFETY FENCE

- GENERAL NOTES:**
1. THE CONTRACTOR SHALL SUBMIT A DETAILED DEWATERING PLAN, CONSTRUCTION SEQUENCE, SHOP DRAWINGS, AND NARRATIVE DESCRIBING CONSTRUCTION OF THE COFFERDAM FOR APPROVAL OF THE OWNER'S REPRESENTATIVE PRIOR TO INITIATING ANY WORK ON SITE.
  2. THE CONTRACTOR IS RESPONSIBLE FOR SIZING THE BYPASS AND DEWATERING PUMPS, AND SHALL HAVE SUFFICIENT PUMPING CAPACITY ON SITE AVAILABLE 24 HOURS A DAY, 7 DAYS A WEEK. THE BYPASS AND DEWATERING PUMPS SHALL BE SET IN SUMPS SURROUNDED BY WASHED STONE.
  3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF WATER FOR THE DURATION OF CONSTRUCTION.
  4. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SEDIMENT FROM THE DEWATERING BMP THROUGHOUT THE PROJECT AS REQUIRED TO ADEQUATELY TREAT DISCHARGE WATER.
  5. THE CONTRACTOR SHALL REFER TO THE ENVIRONMENTAL PERMITS ISSUED FOR THE PROJECT FOR ANY ADDITIONAL REQUIREMENTS REGARDING POND DEWATERING.

**SUGGESTED POND DEWATERING METHODS AND SEQUENCE:**

- PHASE I**
- STEP I.A.** INITIATE POND DEWATERING BY OPENING THE 16-INCH DIAMETER CAST IRON LOW LEVEL DISCHARGE PIPE AND ALLOWING THE POND TO DEWATER AS MUCH AS PRACTICABLE. DO NOT ALLOW SEDIMENTS TO BE MOBILIZED TO DOWNSTREAM AREAS. OPEN THE LOW LEVEL DISCHARGE PIPE INCREMENTALLY TO ALLOW THE POND LEVEL TO STABILIZE PRIOR TO OPENING THE POND DRAIN FURTHER.
- STEP I.B.** CLOSE THE LOW LEVEL DISCHARGE PIPE TO TEMPORARILY STOP OUTLET FLOW FROM THE POND.
- STEP I.C.** EXCAVATE SUMP FOR BYPASS PUMP AND CONSTRUCT THE TEMPORARY COFFERDAM AS SHOWN ON THE PLANS.
- STEP I.D.** INSTALL BYPASS PUMP AND BEGIN PUMPING CLEAR WATER TO THE UPSTREAM END OF THE EXISTING 4'x4' BOX CULVERT.
- PHASE II**
- STEP II.A.** CONTRACTOR SHALL CONTINUE TO DEWATER THE POND AS NECESSARY BY INSTALLING POND DEWATERING PUMPS. CLEAR WATER MAY BE DISCHARGED TO THE UPSTREAM END OF THE EXISTING 4'x4' BOX CULVERT. ANY DISCHARGE CONTAINING DISCERNIBLE TURBIDITY SHALL BE DISCHARGED TO A DEWATERING BMP TO BE SUPPLIED BY THE CONTRACTOR. DEWATERING PUMPING RATE SHALL NOT EXCEED THE TREATMENT RATE OF THE DEWATERING PUMP.
- PHASE III**
- STEP III.A.** DURING DRY WEATHER, INFLOW TO THE POND FROM LONGMEADOW BROOK WILL BE BYPASSED AROUND THE WORK AREA BY THE BYPASS PUMP. OTHER INFLOW WILL COLLECT IN LOW LYING AREAS. THE CONTRACTOR SHALL OPERATE THE POND DEWATERING PUMPS AS NEEDED TO PUMP THE COLLECTED INFLOW TO THE DEWATERING BMP. NO DEWATERING PUMP DISCHARGES WILL BE ALLOWED TO DISCHARGE DIRECTLY TO DOWNSTREAM AREAS.
- STEP III.B.** DURING WET WEATHER, THE CONTRACTOR SHALL MINIMIZE THE RISE OF WATER WITHIN THE POND BY CONTINUING TO OPERATE BOTH THE BYPASS PUMP AND DEWATERING PUMPS. IF INCOMING FLOW EXCEEDS THE CONTRACTOR'S CAPACITY TO PUMP OR TO TREAT DEWATERING DISCHARGES, CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND MACHINERY FROM THE POND AND ALLOW FLOW TO PASS OVER THE SPILLWAY FOR DISCHARGE THROUGH THE 4'x4' BOX CULVERT.



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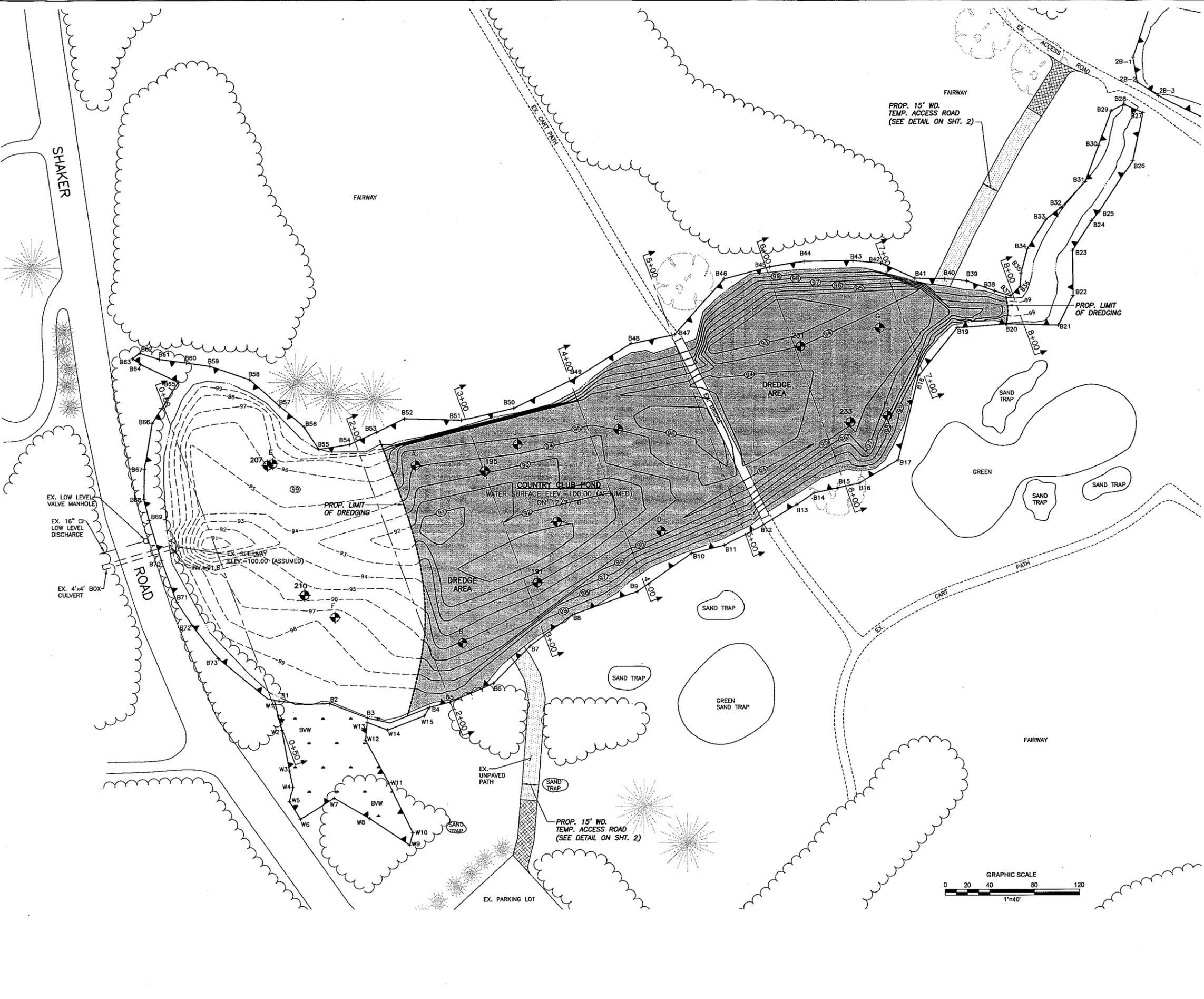
**COUNTRY CLUB POND-SEDIMENT REMOVAL PROJECT  
LONGMEADOW COUNTRY CLUB  
LONGMEADOW, MA**

**DEWATERING PLAN**

PREPARED BY: <b>GZA GeoEnvironmental, Inc.</b> Engineers and Scientists www.gza.com	PREPARED FOR: LONGMEADOW COUNTRY CLUB 400 SHAKER ROAD LONGMEADOW, MASSACHUSETTS		
PROJ MGR: EH	REVIEWED BY: STD	CHECKED BY: TEJ	SHEET
DESIGNED BY: STD	DRAWN BY: EDM	SCALE: 1"=40'	7
DATE: AUGUST, 2011	PROJECT NO.: 15.0166232.00	REVISION NO.:	

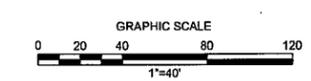
SHEET NO. 7 OF 9

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**LEGEND**

- B26 — EXISTING ORDINARY HIGH WATER LINE OR FRESHWATER WETLAND
- EXISTING EDGE OF WATER
- 97 — EXISTING POND BOTTOM CONTOURS
- 95 — PROPOSED POND BOTTOM
- EXISTING EDGE OF PAVEMENT
- EXISTING TREE LINE
- 210 G — SEDIMENT SAMPLE LOCATIONS
- 4+00 — CROSS SECTION LOCATION
- EXISTING TREES
- TEMPORARY ACCESS ROAD
- DREDGE AREA
- LIMIT OF DREDGING



NO.	ISSUE/DESCRIPTION	BY	DATE

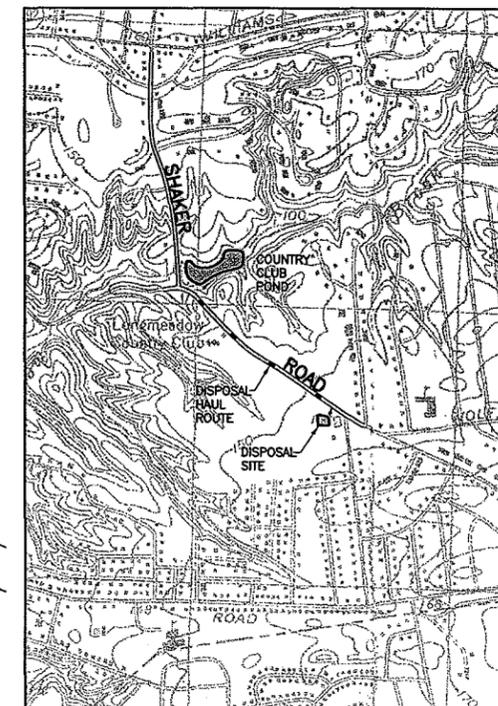
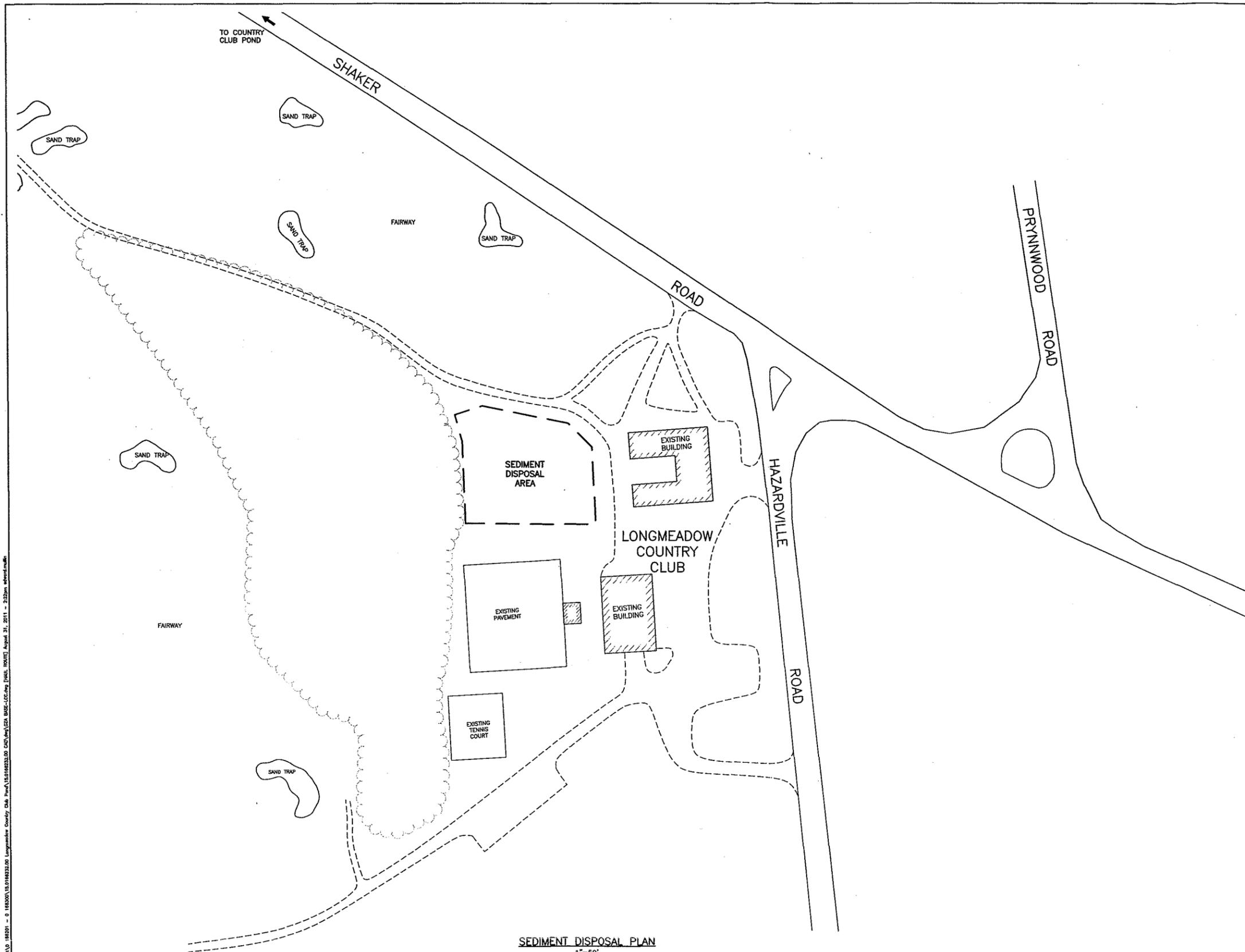
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**COUNTRY CLUB POND-SEDIMENT REMOVAL PROJECT**  
LONGMEADOW COUNTRY CLUB  
LONGMEADOW, MA

**POND RESTORATION PLAN**

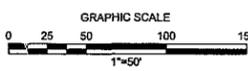
PREPARED BY: <b>GZA GeoEnvironmental, Inc.</b> Engineers and Scientists www.gza.com	PREPARED FOR: LONGMEADOW COUNTRY CLUB 400 SHAKER ROAD LONGMEADOW, MASSACHUSETTS
PROJ MGR: EH    REVIEWED BY: STD DESIGNED BY: STD    DRAWN BY: EDM DATE: AUGUST, 2011    PROJECT NO. 15.0166232.00	CHECKED BY: TEJ SCALE: 1"=40' REVISION NO. 8

SHEET NO. 8 OF 9



LOCUS MAP  
1"=1000'

SEDIMENT DISPOSAL PLAN  
1"=50'



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COUNTRY CLUB POND-SEDIMENT REMOVAL PROJECT  
LONGMEADOW COUNTRY CLUB  
LONGMEADOW, MA

**SEDIMENT DISPOSAL PLAN**

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: LONGMEADOW COUNTRY CLUB 400 SHAKER ROAD LONGMEADOW, MASSACHUSETTS
PROJ MGR: EH DESIGNED BY: EHS/ED DATE: AUGUST, 2011	CHECKED BY: TEJ SCALE: 1"=50' REVISION NO.

SHEET  
9  
SHEET NO. 9 OF 9

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