



# PUBLIC NOTICE

US Army Corps  
of Engineers  
New York District  
Jacob K. Javits Federal Building  
New York, N.Y. 10278-0090  
ATTN: Regulatory Branch

**In replying refer to:**  
Public Notice Number: 2005-01128-YN  
Issue Date: August 17, 2006  
Expiration Date: September 17, 2006

To Whom It May Concern:

The New York District, Corps of Engineers has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. 1344).

APPLICANT: Walter and Theresa Kersch  
1509 Plank Road  
Petersburg, NY 12138

ACTIVITY: Discharge fill material into waters of the United States

WATERWAY: Unnamed Tributary to the Poestenkill in the Hudson River Watershed

LOCATION: Town of Poestenkill, Rensselaer County, New York.

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts 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 reasonably may be expected to 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, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership 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 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.

**ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO REACH THIS OFFICE BEFORE THE EXPIRATION DATE OF THIS NOTICE,** otherwise, it will be presumed that there are no objections to the activity.

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information

**CENAN-OP-RW**  
**PUBLIC NOTICE NO. 2005-01128-YN**

submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein is not likely to affect any Federally endangered or threatened species or their critical habitat. However, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the District Engineer is consulting with the appropriate Federal agency to determine the presence of and potential impacts to listed species in the project area or their critical habitat.

Based upon a review of the latest published version of the National Register of Historic Places, there are no known sites eligible for, or included in, the Register within the permit area. Presently unknown archeological, scientific, prehistorical, or historical data may be lost by work accomplished under the required permit.

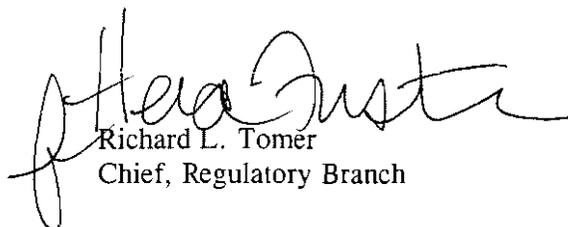
Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act and the applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision.

In addition to any required water quality certificate, the applicant has obtained or requested the following governmental authorization for the activity under consideration:

-New York Department of Environmental Conservation: Article 15 Protection of Waters Permit for Dam Construction and a SPDES

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact this office at (518) 270-0588 and ask for Andrew C. Dangler.

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



Richard L. Tomer  
Chief, Regulatory Branch

Enclosures

**WORK DESCRIPTION**

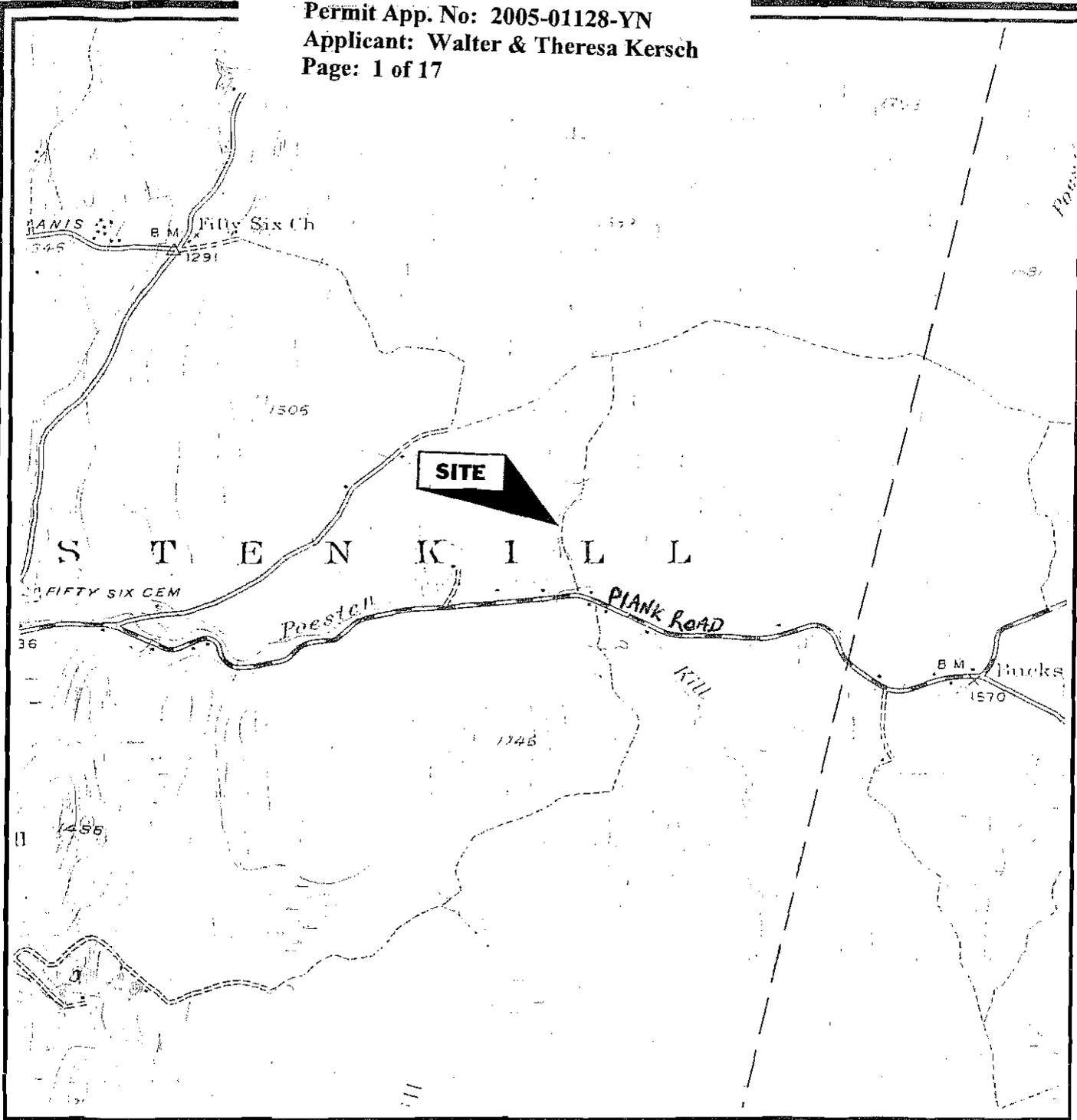
The applicants, Walter and Theresa Kersch, have requested Department of the Army authorization for the discharge of fill material into waters of the United States to facilitate the construction of an earthen dam and 1.59-acre pond. The dam would be built across an unnamed tributary to the Poestenkill, in the Hudson River Watershed in the Town of Poestenkill, Rensselaer County, New York.

The work would involve the discharge of fill material into 0.1 acre of wetland and 106 linear feet of stream channel in order to construct an earthen dam and 1.59 acre pond. Approximately 0.1 acre of wetland and 664 linear feet of stream channel would be flooded by the proposed impoundment. Approximately 4 cubic yards of stone would be placed within the stream channel immediately downstream of the outlet structure to provide scour protection. A dry hydrant would be installed within the pond to provide a fire suppression source.

Temporary impacts associated with the project would include the installation of cofferdams and check dams. Two twelve feet by six feet stone cofferdams would be installed to isolate the work area from stream flow during construction. Up to three check dams would be installed downstream of the work area prior to construction to collect sediment runoff. Each check dam would require the temporary placement of up to 5 cubic yards of stone within the stream channel.

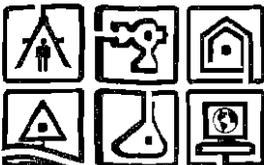
The applicant proposes to mitigate for the proposed impacts by establishing a 0.1-acre wetland fringe along the edge of the proposed pond, establishing a nesting island within and placing wildlife boxes around the proposed pond, and enhancing the vegetative buffer along the Poestenkill in two 100 foot by 15 foot sections. Additionally, the applicant proposes to repair a 150-foot section of an existing road and an adjacent erosional feature, which are currently eroding into a tributary to the Poestenkill.

The stated purpose of this project is to create a pond for fire protection and recreational use by the applicant.



**MAP REFERENCE**

United States Geological Survey  
 7.5 Minute Series Topographic Map  
 Taborton, NY Quadrangle  
 Dated: 1946



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 INFORMATIONAL SERVICES

C.T. MALE ASSOCIATES, P.C.

**SITE LOCATION MAP**

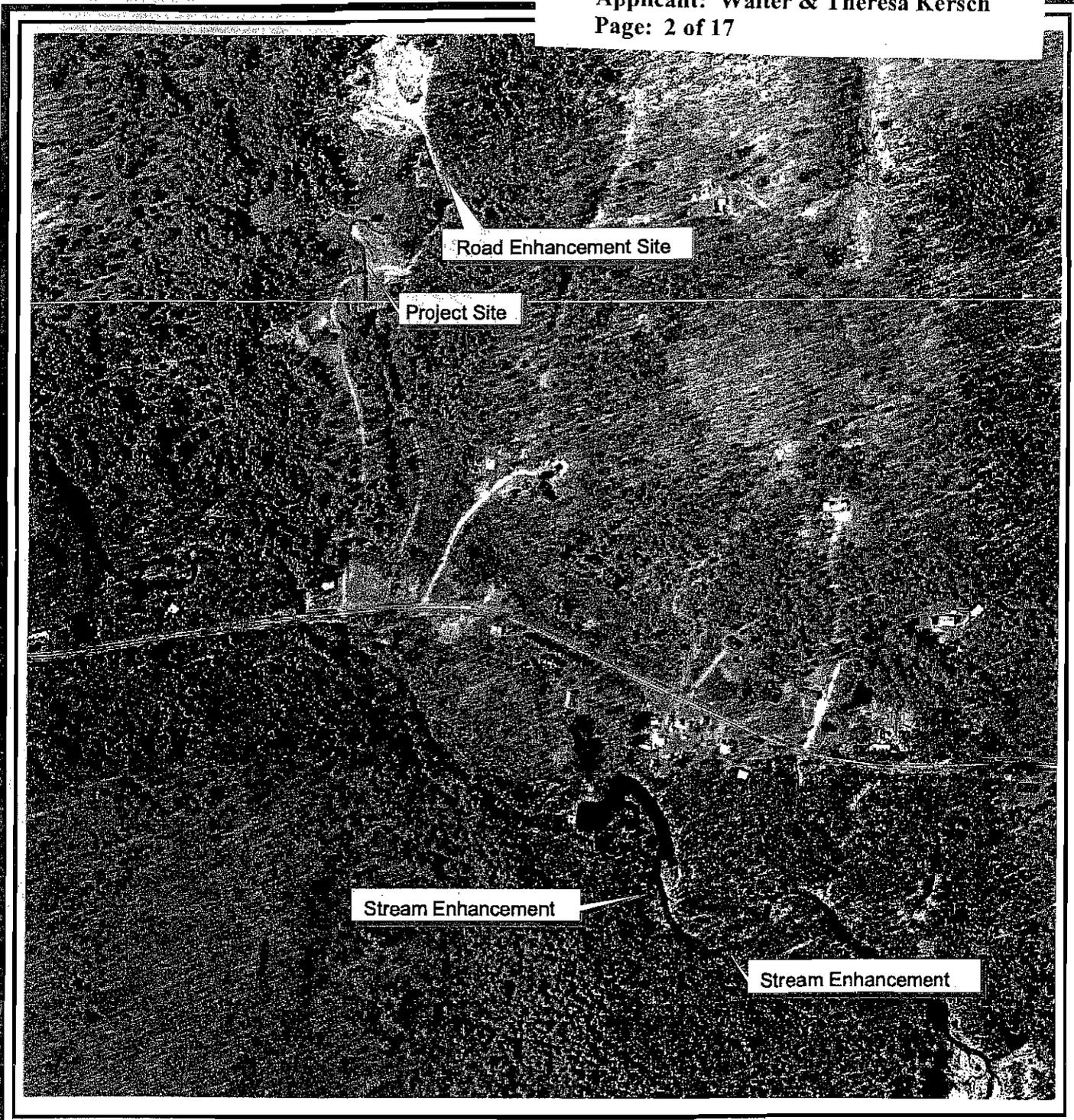
**KERSCH DAM**

TOWN OF POESTENKILL

RENSELAER COUNTY, NY

SCALE: 1" = 2000'

DRAFTER: JMR



**MAP REFERENCE**

Rensselaer County 60 M Color Infrared  
 UTM 18, NAD 83, meters  
 Town of Poestenkill, Dated 2004  
 Downloaded from NYS GIS Clearinghouse on 9/9/05.



**STREAM ENHANCEMENT LOCATION MAP**

**KERSCH DAM**

TOWN OF POESTENKILL

RENSSELAER COUNTY, NY



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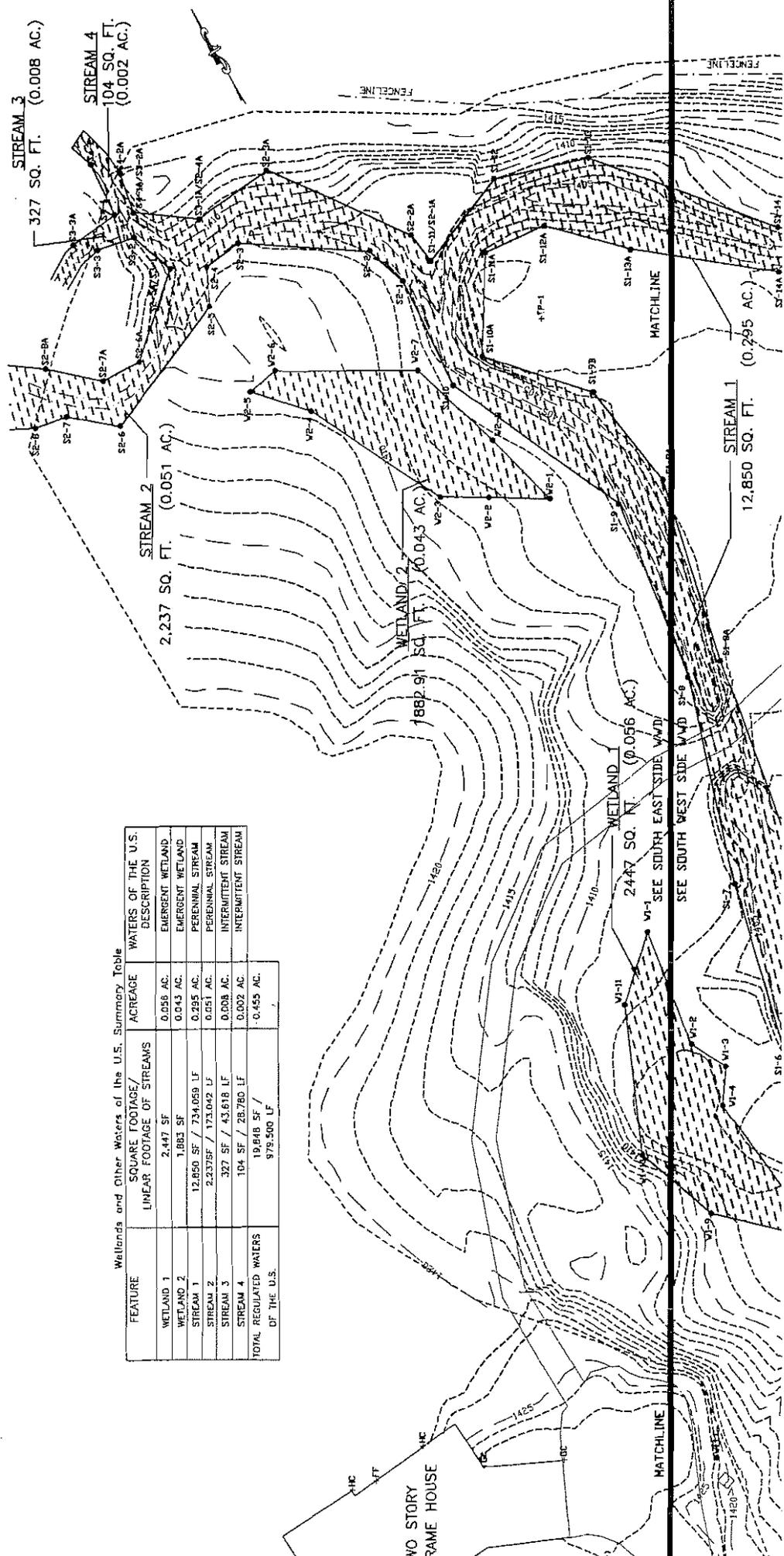
C.T. MALE ASSOCIATES, P.C.

SCALE: 1" = 500'

DRAFTER: JMR

Wetlands and Other Waters of the U.S. Summary Table

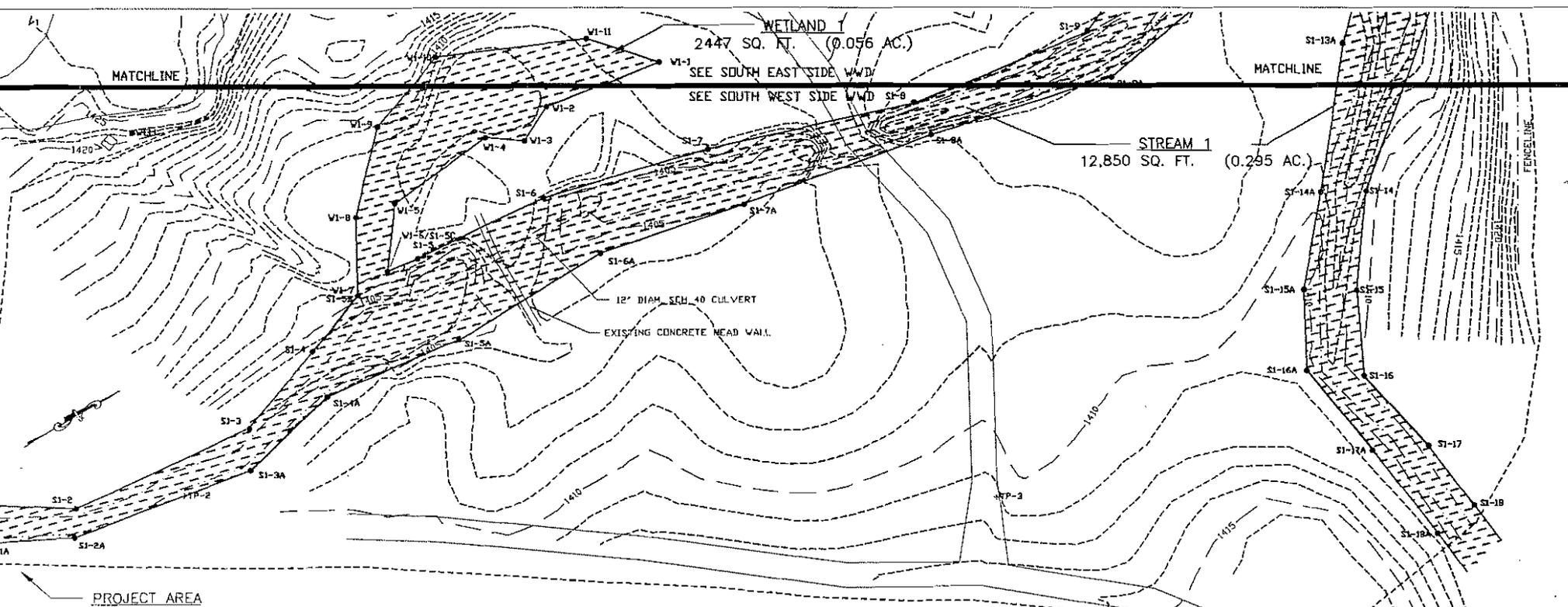
FEATURE	SQUARE FOOTAGE/ LINEAR FOOTAGE OF STREAMS	ACREAGE	WATERS OF THE U.S. DESCRIPTION
WETLAND 1	2,447 SF	0.056 AC.	EMERGENT WETLAND
WETLAND 2	1,083 SF	0.043 AC.	EMERGENT WETLAND
STREAM 1	12,850 SF / 734.059 LF	0.295 AC.	PERENNIAL STREAM
STREAM 2	2,237 SF / 173.042 LF	0.051 AC.	PERENNIAL STREAM
STREAM 3	327 SF / 43.618 LF	0.008 AC.	INTERMITTENT STREAM
STREAM 4	104 SF / 28.780 LF	0.002 AC.	INTERMITTENT STREAM
TOTAL REGULATED WATERS OF THE U.S.	19,848 SF / 978,500 LF	0.455 AC.	



DATE	REVISIONS	RECORD/DESCRIPTION	DRAWN/SCALE	CHECKED	DATE

DESIGNED: C.T. MALE ASSOCIATES, P.C.  
 DRAWN: M.W.V.  
 CHECKED: M.W.V.  
 PROJECT NO. 05.0389  
 SCALE: 1" = 20'  
 DATE:

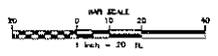
WETLANDS AND OTHER WATERS OF THE U.S. DELINEATION MAP  
 KERBACH DAM PROJECT  
 RANDOLPH COUNTY  
 C.T. MALE ASSOCIATES, P.C.  
 50 GARDNER AVENUE, SUITE 200, WYOMING, WY 82001  
 REGISTERED PROFESSIONAL ENGINEER, LICENSE NO. 12110  
 WWD  
 SHEET 1 OF 5



PROJECT AREA

- NOTES:**
1. WETLANDS AND OTHER WATERS OF THE U.S. WERE DELINEATED ON SEPTEMBER 17, 2003 BY A C.T. MALE FIELD REPRESENTATIVE IN ACCORDANCE WITH THE 1987 COPPS OF ENGINEERS WETLAND DELINEATION MANUAL.
  2. LOCATIONS OF WATERS OF THE U.S. DELINEATION FLAGS PLACED IN 2005 WERE DETERMINED BY MEASURING THE DISTANCE FROM SURVEY-LOCATED FLAGS TO NEW FLAGS.
  3. THE FOLLOWING WETLAND FLAGS WERE NOT SURVEY LOCATED OR MEASURED IN THE FIELD AND THEIR LOCATIONS WERE APPROXIMATED BASED ON A FIELD SKETCH MAP: S1-15, S1-15A, S1-16, S1-16A, S1-17, S1-17A, S1-18 AND S1-18A.

REFERENCE MAP ENTITLED "WETLANDS SURVEY" DATED OCTOBER 23, 2003, AS COMPILED BY RUSSELL REEVES CIVIL ENGINEER, LICENSED 083978, BEARING S. NO. W-11.



DATE	REVISIONS RECORD/DESCRIPTION	DRAWN	CHECK	APPR.	APPROVED

DESIGNED BY: ID FROM C.T. MALE ASSOCIATES, P.C.  
 DRAWN BY: MMS  
 CHECKED BY:  
 PROJ. NO: 05.5309  
 SCALE: 1"=20'  
 DATE:

**WETLANDS AND OTHER WATERS OF THE U.S. DELINEATION MAP**  
**KERSCH DAM PROJECT**

RENSSELAER COUNTY NEW YORK

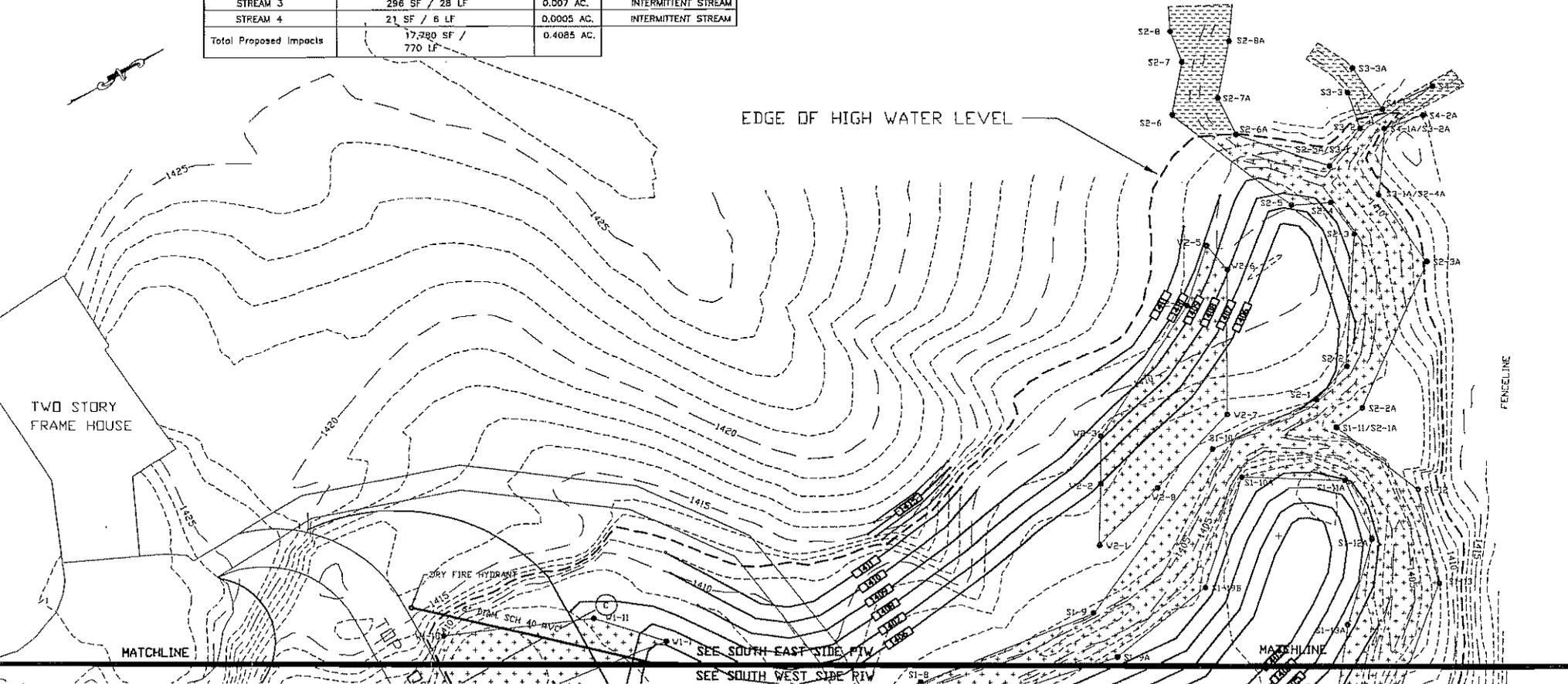
**C.T. MALE ASSOCIATES, P.C.**  
 80 CENTURY HILL DRIVE, P.O. BOX 727, LATHAM, NY 12110  
 518.786.7400 • FAX 518.786.7286  
 ARCHITECTURE & PLANNING SERVICES ENGINEERING • CIVIL ENGINEERING  
 ENVIRONMENTAL SERVICES • SURVEY & LAND INFORMATION SERVICES




**WWD**  
 SHEET 1 OF 3  
 DPT. NO.

Proposed Impacts to Wetlands and Other Waters of the U.S.

FEATURE	SQUARE FOOTAGE/ LINEAR FOOTAGE OF STREAMS	ACREAGE	WATERS OF THE U.S. DESCRIPTION
WETLAND 1	2,450 SF	0.056 AC.	EMERGENT WETLAND
WETLAND 2	1,882 SF	0.043 AC.	EMERGENT WETLAND
STREAM 1	11,356 SF / 618 LF	0.261 AC.	PERENNIAL STREAM
STREAM 2	1,775 SF / 118 LF	0.041 AC.	PERENNIAL STREAM
STREAM 3	296 SF / 28 LF	0.007 AC.	INTERMITTENT STREAM
STREAM 4	21 SF / 6 LF	0.0005 AC.	INTERMITTENT STREAM
Total Proposed Impacts	17,780 SF / 770 LF	0.4085 AC.	



- Legend**
- WETLANDS AND OTHER WATERS OF THE U.S. TO BE IMPACTED.
  - WETLANDS AND OTHER WATERS OF THE U.S. OUTSIDE OF WORK AREA

- 1415 EXISTING GRADES
- 1402 PROPOSED GRADES
- W2-1 Wetland Flag
- S1-2A STREAM FLAG
- EDGE OF WATER

**MAP REFERENCE:**  
 1. MAP ENTITLED "WETLANDS SURVEY" DATED OCTOBER 23, 2003, AS PREPARED BY RUSS REEVES CIVIL ENGINEER, LICENSED 063979, BEARING DWG. NO. W-11.

**ENGINEERING NOTES REFERENCE:**  
 1. MAP ENTITLED "SITE GRADING & DAM STRUCTURE" DATED SEPTEMBER 26, 2002, AS PREPARED BY RUSS REEVES CIVIL ENGINEER, LICENSED 063979, BEARING DWG. NO. W-11.

DATE	REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.	UNAPPROVED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF FEDERAL TITLE 38, U.S.C. 5105 AND STATE ENGINEERING LAWS

DESIGNED:  
 DRAFTED: MWM  
 CHECKED:  
 PROJ. NO: DS-3388  
 SCALE:  
 DATE:

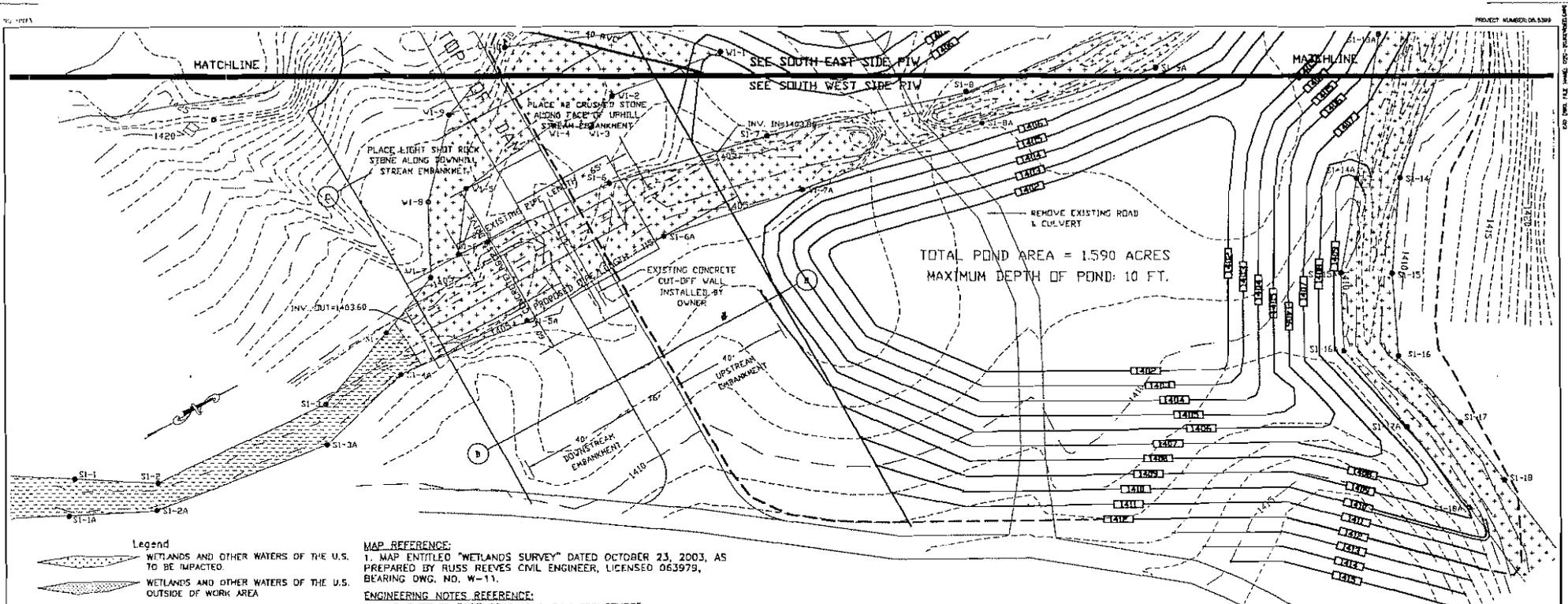
**PROPOSED IMPACTS TO WETLANDS AND OTHER WATERS OF THE U.S. FOR THE KERSCH DAM PROJECT**

RENSSELAER COUNTY  
 NEW YORK

**C.T. MALE ASSOCIATES, P.C.**  
 30 CENTURY HILL DRIVE, P.O. BOX 737, LORAIN, NY 12110  
 518.782.7700 • FAX 518.782.7709

ARCHITECTURE & PLUMBING SYSTEMS ENGINEERING • CIVIL ENGINEERING  
 ENVIRONMENTAL SERVICES • SURVEY & LAND INFORMATION SERVICES

**PIW**  
 SHEET 2 OF 3  
 DWG. NO.:



- Legend**
- WETLANDS AND OTHER WATERS OF THE U.S. TO BE IMPACTED
  - WETLANDS AND OTHER WATERS OF THE U.S. OUTSIDE OF WORK AREA
  - 1415 EXISTING GRADES
  - 1402 PROPOSED GRADES
  - W-1 Wetland Flag
  - SI-24 STREAM FLAG
  - EDGE OF WATER

**MAP REFERENCE:**  
 1. MAP ENTITLED "WETLANDS SURVEY" DATED OCTOBER 23, 2003, AS PREPARED BY RUSS REEVES CIVIL ENGINEER, LICENSED 063979, BEARING DWG. NO. W-11.

**ENGINEERING NOTES REFERENCE:**  
 1. MAP ENTITLED "SITE GRADING & DAM STRUCTURE" DATED SEPTEMBER 26, 2002, AS PREPARED BY RUSS REEVES CIVIL ENGINEER, LICENSED 063979, BEARING DWG. NO. W-11.

- NOTES:**
1. WETLANDS AND OTHER WATERS OF THE U.S. WERE DELINEATED ON SEPTEMBER 17, 2003 BY A.C.T. MALE FIELD REPRESENTATIVE IN ACCORDANCE WITH THE 1987 CORPS OF ENGINEERS WETLAND DELINEATION MANUAL. WETLAND BOUNDARIES WERE REVISED ON JULY 21, 2005 BY C.T. MALE FIELD REPRESENTATIVE IN ACCORDANCE WITH THE CORPS 1987 METHODOLOGY.
  2. LOCATIONS OF WATERS OF THE U.S. DELINEATION FLAGS PLACED IN 2005 WERE DETERMINED BY MEASURING THE DISTANCE FROM SURVEY-LOCATED FLAGS TO NEW FLAGS.
  3. THE FOLLOWING WETLAND FLAGS WERE NOT SURVEY LOCATED OR MEASURED IN THE FIELD AND THEIR LOCATIONS WERE APPROXIMATED BASED ON A FIELD SKETCH MAP: SI-15, SI-15A, SI-16, SI-16A, SI-17, SI-17A, SI-18 AND SI-18A.

4. A reinforced concrete spillway with side tapers and a splash apron has been provided. In order to prevent erosive damage to the downhill embankment light shotrock stone will be placed along the face of the dam and for a distance of 4 feet beyond the toe of the embankment. Medium shotrock stone shall be placed at the end of the splash apron as a velocity dissipator during periods of high water flows.
5. All concrete used for this application shall consist of 4,000 psi compressive strength having a maximum slump of 3 inches and an air entrainment of 5-7%.
6. All concrete surfaces shall be given a skid resistant broom finish and with a Cur-N-Seal applied as the concrete sets up. If cracks develop in the spillway area they shall be sealed with a 5kg brand epoxy from A.H.Harris & Sons.
7. All concrete slabs shall be placed on 12 inches of compacted Item 4 granular subbase. The subbase shall be compacted to 95% Standard Proctor Density.
8. The contractor shall coordinate all construction activities with engineer and owner during the course of the work.

9. Prior to the commencement of work the contractor shall review the construction drawings for the dam and the dam site, develop a list of tasks and sequence of construction that will include the temporary relocation of the existing drainage channel in the vicinity of the proposed dam so that the dam's core can adequately be constructed. Once the majority of the core has been set the drainage channel can be rerouted to the original location and the remainder of the core placed. The sequencing and approach will be resolved with the engineer, contractor and owner in the field.
10. Some modification to the design and construction may have to be made based upon field conditions encountered as the work progresses. These modifications will be recorded by the engineer and form the basis of the as-built to be provided to DEC along with the engineering report after the work on the project has been completed.

DATE	REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECKER	APPR.

**PROPOSED IMPACTS TO WETLANDS AND OTHER KERSCH DAM PROJECT**

**KERSCH DAM PROJECT**

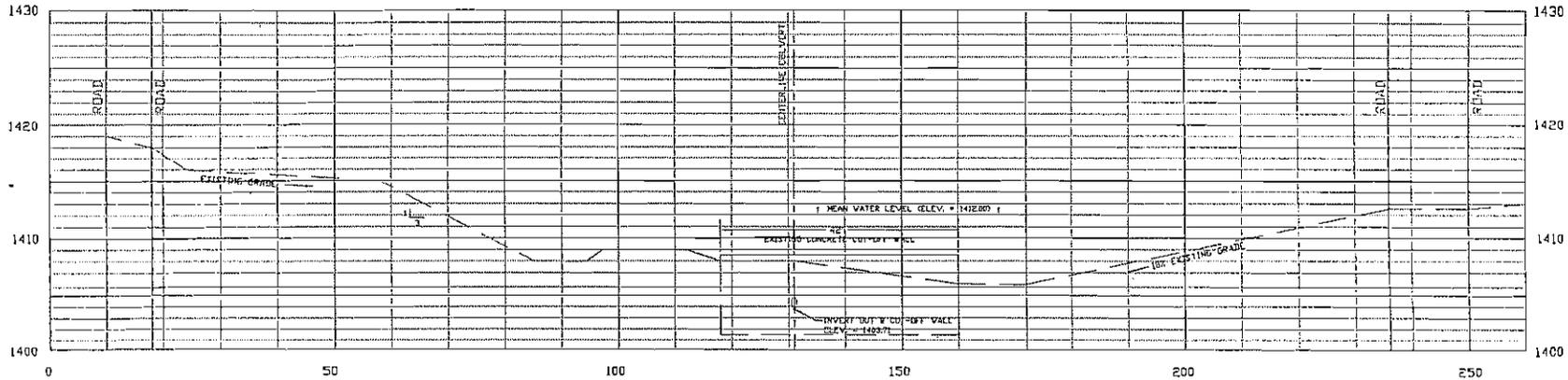
PENNSYLVANIA COUNTY NEW YORK

**C.T. MALE ASSOCIATES, P.C.**

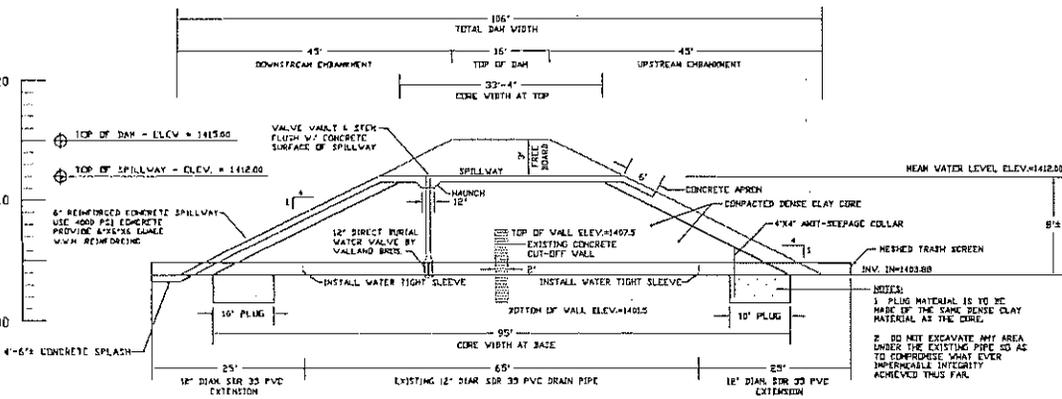
50 CENTURY HILL DRIVE, P.O. BOX 723, LATHAM, NY 12110  
 518.788.7400 • FAX 518.788.1794

ARCHITECTURE & BUILDING SYSTEMS ENGINEERING • CIVIL ENGINEERING  
 ENVIRONMENTAL SERVICES • SURVEY & LAND INFORMATION SERVICES

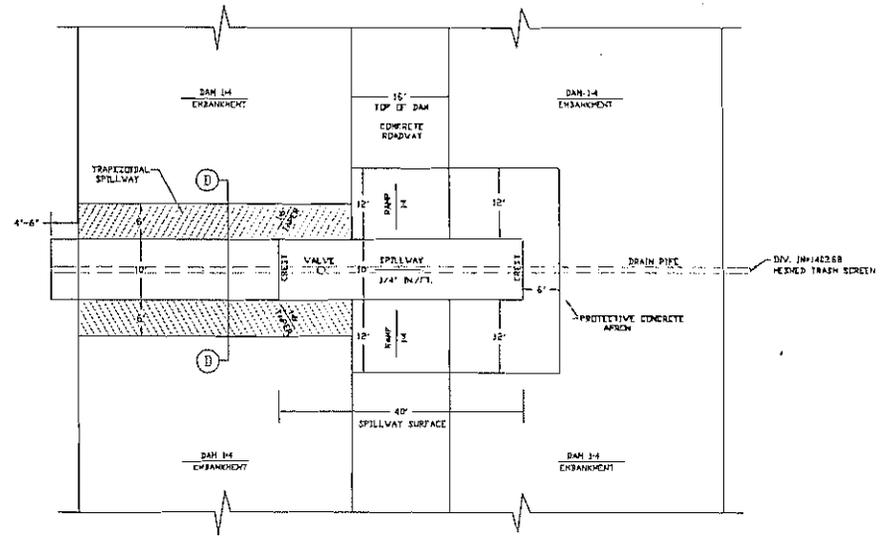
SHEET 2 OF 5  
 DWG. NO.:



PROFILE A-A  
 SCALE: VERTICAL 1" = 5'  
 HORIZONTAL 1" = 10'

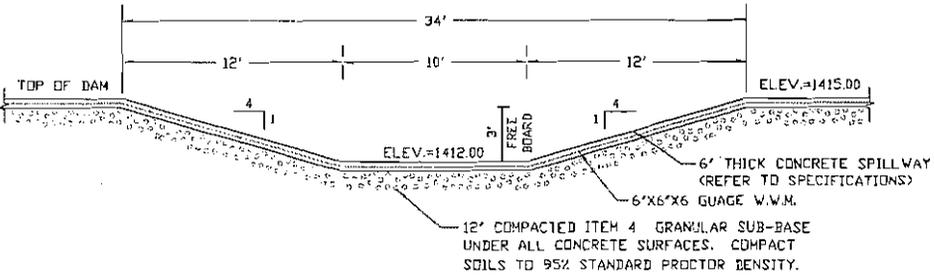


CROSS-SECTIONAL VIEW THRU THE DAM @ THE DRAIN PIPE  
 SCALE: VERTICAL 1" = 5'  
 HORIZONTAL 1" = 10'

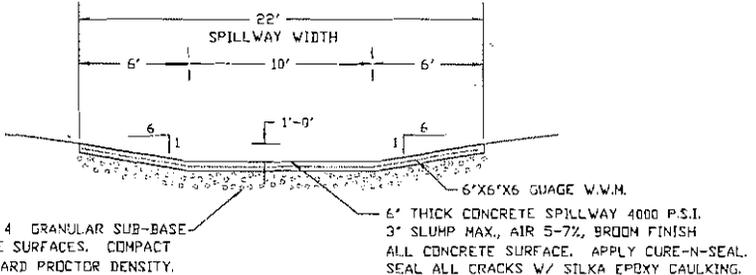


PLAN VIEW - SPILLWAY  
 SCALE: 1" = 10'

RUSS REEVES CIVIL ENGINEER, P.E. CIVIL • STRUCTURAL • ENVIRONMENTAL ENGINEERS NEW YORK STATE LICENSE NUMBER 063979 157 PAULING AVENUE TROY, NEW YORK PHONE (518) 873-0774 FAX (518)873-0796			
MUNICIPALITY:	TOWN OF PÖSTENKILL	DRAWN BY:	RJC
DESIGNED BY:	RRR	SCALE:	AS NOTED
COUNTY:	RENSSELAER	DATE:	10/15/02
STATE:	NEW YORK	PREPARED FOR:	WALTER & TERRY KERSCH
TITLE:	SITE GRADING PROFILES AND CROSS-SECTION DETAILS		DWG. NO. C-20 3 OF 3



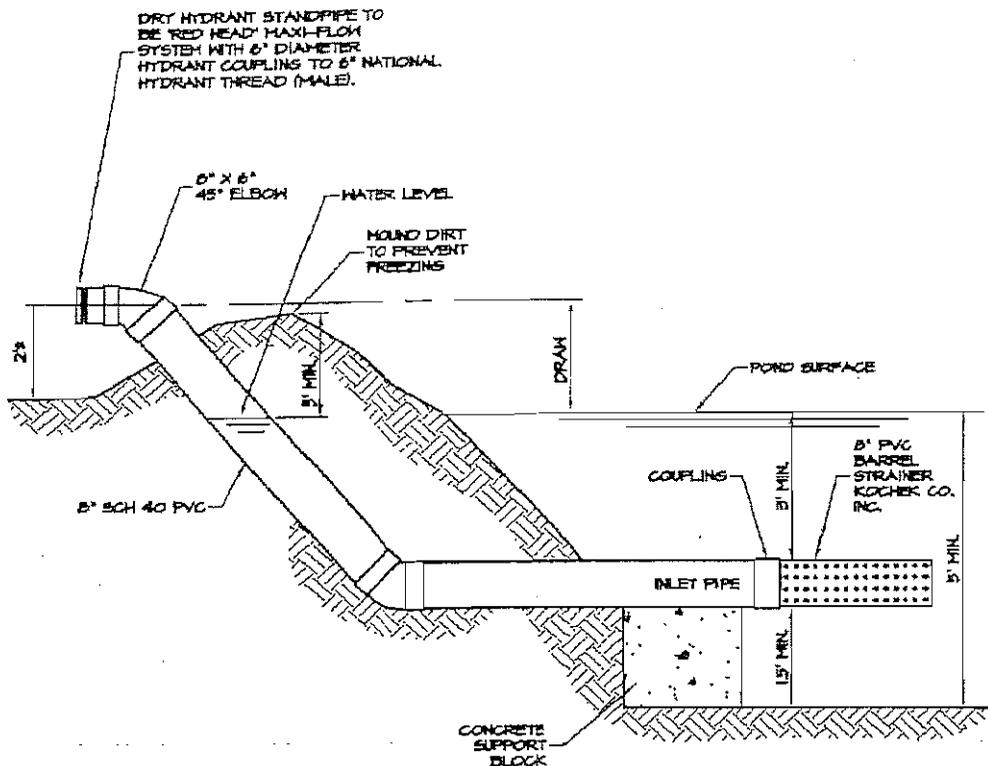
ELEVATION VIEW AT SPILLWAY (TOP OF DAM)  
 SCALE: 1" = 5'



CROSS-SECTIONAL VIEW D-D  
 SCALE: 1" = 5'

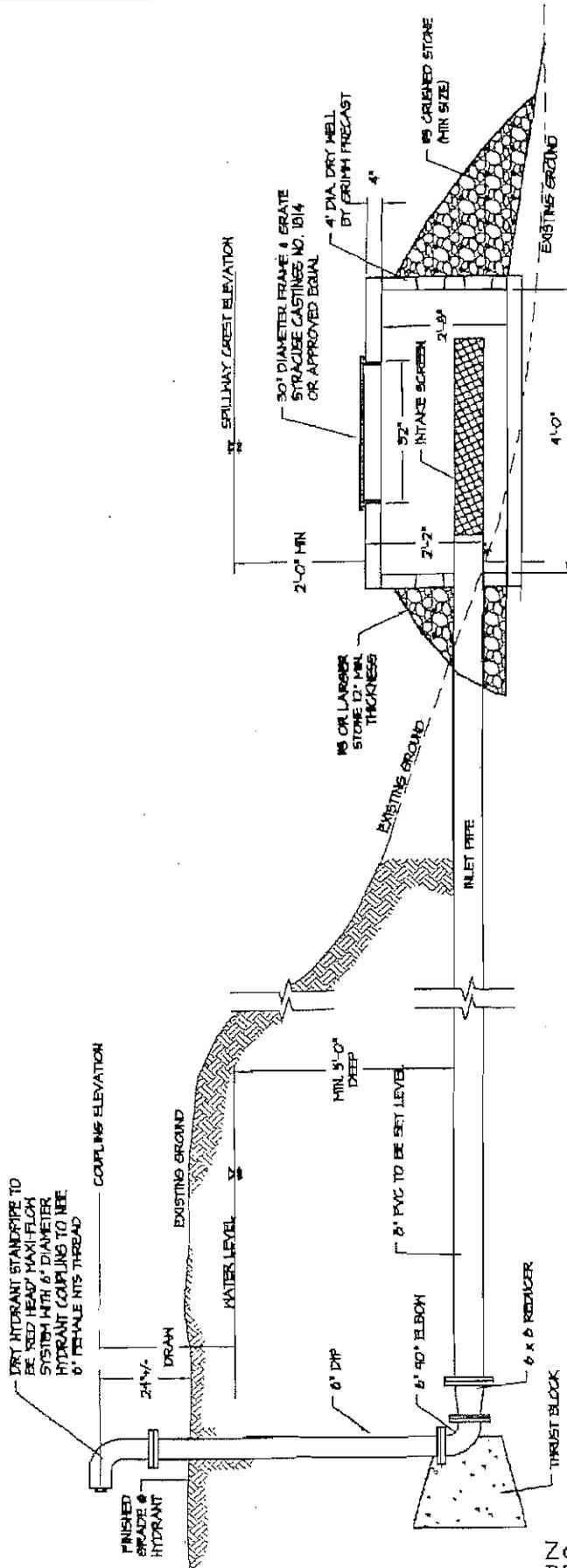
<b>RUSS REEVES CIVIL ENGINEER, P.E.</b> CIVIL • STRUCTURAL • ENVIRONMENTAL ENGINEERS NEW YORK STATE LICENSE NUMBER 063979 157 PAWLING AVENUE TROY, NEW YORK PHONE (518) 273-9774 FAX (518)273-0794			
MUNICIPALITY:	TOWN OF FUESTEMERAL	DRAWN BY: RJC	DESIGNED BY: RRR
COUNTY:	RENSSELAER	SCALE: AS NOTED	DATE: 10/15/02
STATE:	NEW YORK	PREPARED FOR:	WALTER & TERRY KERSCH
TITLE: SITE GRADING PROFILES AND CROSS-SECTION DETAILS			DWG. NO. C-30 3 OF 3

Permit App. No: 2005-01128-YN  
Applicant: Walter & Theresa Kersch  
Page: 9 of 17



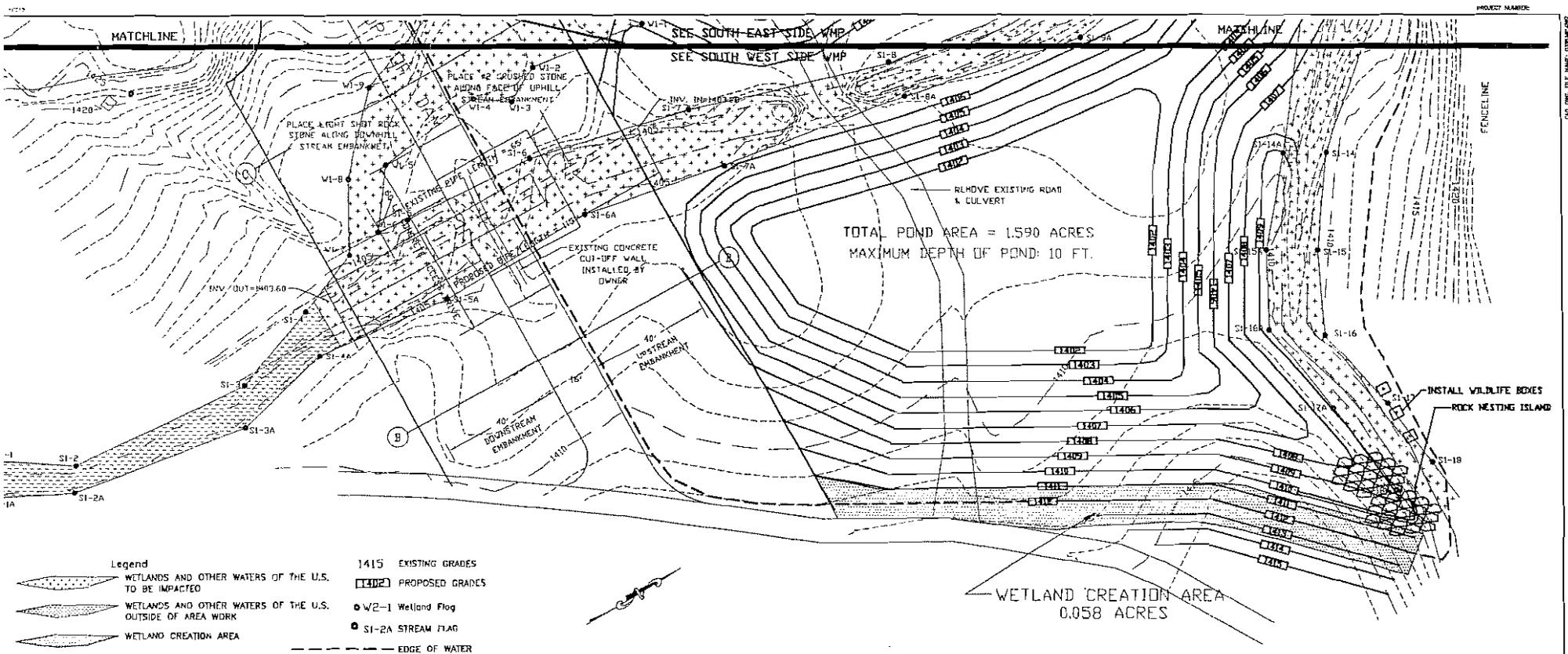
Dry Hydrant Detail #1

Permit App. No: 2005-01128-YN  
Applicant: Walter & Theresa Kersch  
Page: 10 of 17



Dry Hydrant Detail #2

Zoom 1/2xp  
DRY HYDRANT  
G:\Dwgs\00-Details-CIVIL\WATER\DRY-HYDRANT-2.dwg  
May 07, 2001



**Legend**

- WETLANDS AND OTHER WATERS OF THE U.S. TO BE IMPACTED
- WETLANDS AND OTHER WATERS OF THE U.S. OUTSIDE OF AREA WORK
- WETLAND CREATION AREA
- 1415 EXISTING GRADES
- 1402 PROPOSED GRADES
- W-1 Wetland Flag
- SI-2A STREAM FLAG
- EDGE OF WATER

**PLANTING PLAN**  
 1. THE PLANTINGS WILL BE COMPLETED DURING THE FOLLOWING GROWING SEASON, ONCE THE WATER LEVEL IN THE POND HAS BEEN ESTABLISHED. THE FOLLOWING TABLE PROVIDES INFORMATION ON THE PROPOSED PLANTINGS.

2. ALL PLANTINGS WILL BE INSTALLED PER SUPPLIER'S SPECIFICATIONS IN AN UPRIGHT POSITION WITHOUT ANY EXPOSED ROOTS.
3. PLANTINGS WILL NOT BE ESTABLISHED IN ORGANIZED ROWS, BUT WILL BE RANDOMLY DISPERSED AND PLANTED TO ATTAIN A MIXTURE OF SPECIES THROUGHOUT THE PLANTING AREAS.
4. HERBACEOUS PLANTINGS WILL BE PLANTED TO ACHIEVE A FINAL DISPERSION OF APPROXIMATELY 3 FEET ON CENTER.
5. PLANTINGS WILL NOT BE INSTALLED IN INUNDATED AREAS; SATURATED SOILS ARE RECOMMENDED FOR PLANTING.
6. A TYPICAL CROSS-SECTION OF THE WETLAND FRINGE AREA IS INCLUDED IN THE FIGURES SECTION OF THE CORPS SECTION 404 PERMIT APPLICATION. THIS CROSS-SECTION SHOWS THE DESIRED WATER LEVELS AND SLOPE WITH THE EMERGENT WETLANDS AND ADJACENT AQUATIC AREAS.

**MAP REFERENCE:**

1. MAP ENTITLED "WETLANDS SURVEY" DATED OCTOBER 23, 2003, AS PREPARED BY RUSS REEVES CML ENGINEER, LICENSED 063979, BEARING DWG. NO. W-11.



COMMON NAME	SCIENTIFIC NAME	NUMBER OF PLANTINGS	APPROXIMATE SPACING BETWEEN PLANTS
BROADLEAF CATTAIL	TYPHA LATIFOLIA	150	3 FEET
NARROWLEAF CATTAIL	TYPHA ANGUSTIFOLIA	150	3 FEET
BLUE FLAG	IRIS VERSICOLOR	100	3 FEET
YELLOW WATER LILY	NUPHAR LUTEUM	100	3 FEET

DATE	REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APP'R
11/11/04				
11/11/04				
11/11/04				
11/11/04				
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**WETLAND MITIGATION AND PLANTING PLAN**  
**KERSCH DAM PROJECT**

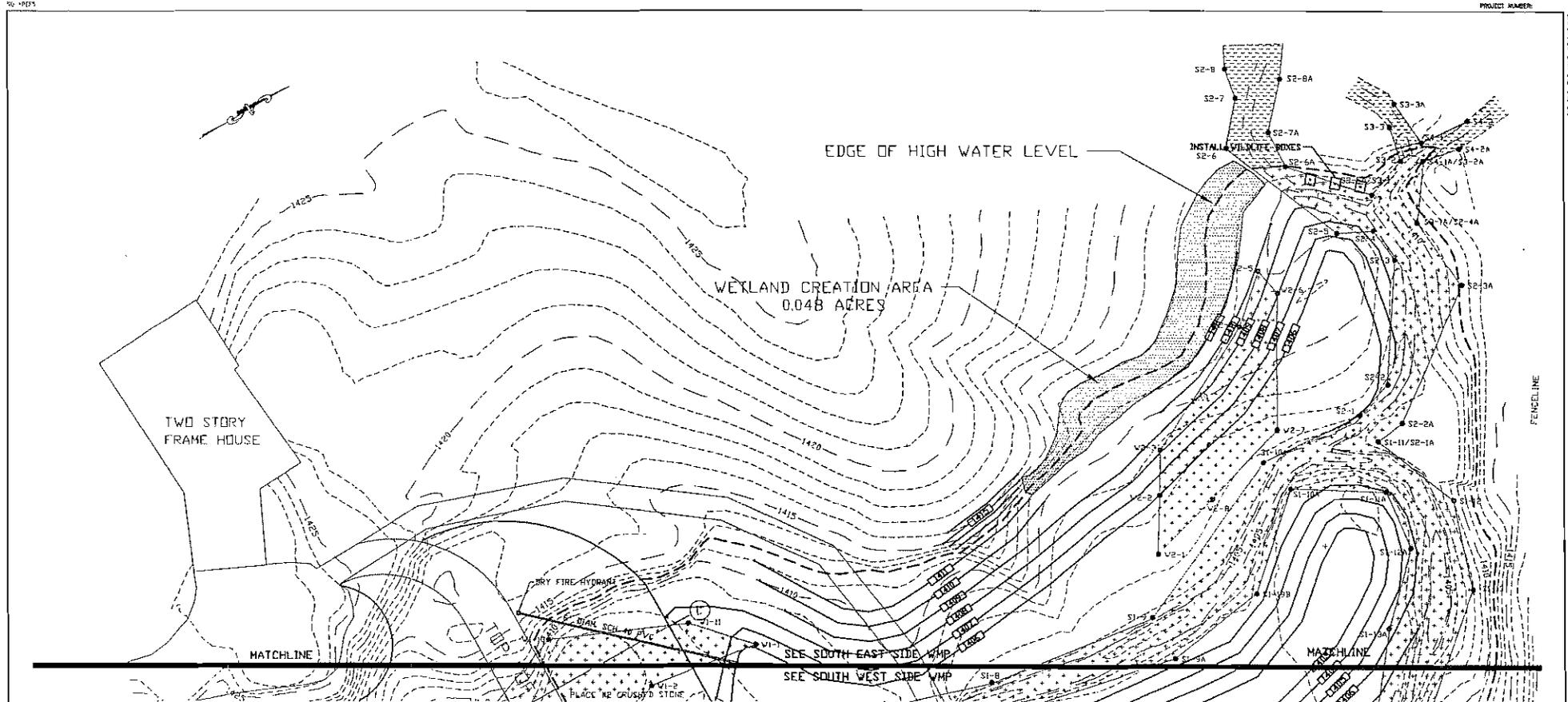
RENESSAER COUNTY NEW YORK

**C.T. MALE ASSOCIATES, P.C.**

NO. CEDAR HILL DRIVE, P.O. BOX 272, LARKME, NY 12110  
 518-296-7400 • FAX 518-768-7299

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SHEET 3 OF 5  
 DWG. NO.:



**SEEDING PLAN**

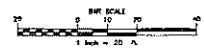
1. IMMEDIATELY FOLLOWING THE COMPLETION OF GRADING ACTIVITIES, THE WETLAND CREATION AREAS WILL BE SEEDED WITH ONE OF THE NATIVE SEED MIXES LISTED IN THE TABLE BELOW.

2. SEEDING WILL BE DONE WHEN SOILS ARE MOIST AND NOT INUNDATED.
3. SEEDING WILL BE COMPLETED WITH A HAND CYCLONE SEED SPREADER OR EQUIVALENT.
4. TO ACHIEVE AN EVEN DISTRIBUTION OF SEED BY HAND, ONE HALF OF THE SEED MIXTURE WILL BE APPLIED WALKING ONE DIRECTION, AND THE OTHER HALF WILL BE APPLIED WALKED AT A 90 DEGREE ANGLE TO THE INITIAL DIRECTION.
5. FOLLOWING DISTRIBUTION OF THE SEED MIXTURE, THE AREA WILL BE RAKED TO MIX THE SEED INTO THE SOIL.
6. NO FERTILIZER OF LIME WILL BE APPLIED IN THE CREATION AREA.
7. ALL SEEDED AREAS WILL BE WATERED AND MULCHED WITH WEED-FREE STRAW BALES OR THE EQUIVALENT. MULCH IS TO BE MAINTAINED UNTIL STABILIZED WITH AN 80 PERCENT VEGETATIVE COVER.

**MAP REFERENCE:**

1. MAP ENTITLED "WETLANDS SURVEY" DATED OCTOBER 23, 2003, AS PREPARED BY RUSS REEVES CIVIL ENGINEER, LICENSED 063979, BEARING DWG. NO. W-11.

SEED MIX	SUPPLIER	APPLICATION RATE
NEW ENGLAND WETMIX	NEW ENGLAND WETLAND PLANTS, INC AMHERST, MA (413)548-8000	18LBS. PER ACRE
NORTHEAST WETLAND DIVERSITY MIX	SOUTHERN TIER CONSULTING, INC WEST CLARKSVILLE, NY (585)968-3120	3LBS. PER ACRE



**Legend**

- WETLANDS AND OTHER WATERS OF THE U.S. TO BE IMPACTED
- WETLANDS AND OTHER WATERS OF THE U.S. OUTSIDE OF AREA WORK
- WETLAND CREATION AREA
- 1415 EXISTING GRADES
- PROPOSED GRADES
- V2-1 Wetland Flag
- S1-2A STREAM FLAG
- EDGE OF WATER

DATE	REVISIONS RECORD/DESCRIPTION	DRAFTED	CHECKED	APPROVED

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS PROHIBITED. ANY SUCH ALTERATION SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO THE ENGINEER.

© 2004  
 C.T. MALE ASSOCIATES, P.C.  
 DESIGNED: MWM  
 CHECKED: [Signature]  
 PROJ. NO: DS.5399  
 SCALE: 1"=20'  
 DATE:

**WETLAND MITIGATION AND PLANTING PLAN**

**KERCH DAM PROJECT**

RENSSELAER COUNTY NEW YORK

**C.T. MALE ASSOCIATES, P.C.**  
 50 CANTON HILL DRIVE, P.O. BOX 797, CANTON, NY 12110  
 518-760-7400 / FAX 518-760-7399

ARCHITECTURE & PLANNING SYSTEMS ENGINEERING • CIVIL ENGINEERING  
 ENVIRONMENTAL SERVICES • SURVEY & LAND INFORMATION SERVICES

**WMP**  
 SHEET 3 OF 8  
 DWG. NO.:

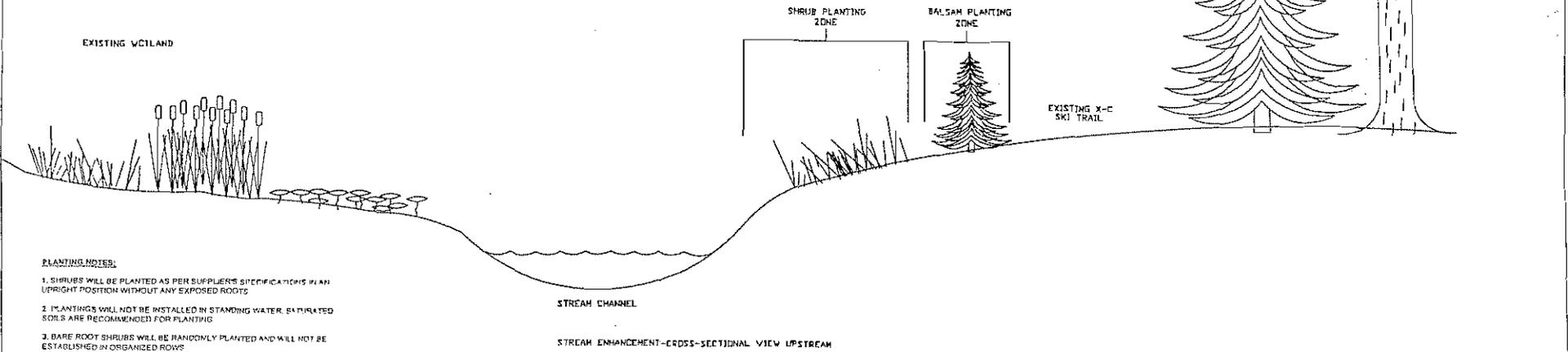
DATE PLOTTED: 02/14/05 10:00 AM

NO XREFS

PROJECT NUMBER:

**PROPOSED PLANTING**

PLANTINGS	SCIENTIFIC NAME	NURSERY STOCK CONDITION	APPROXIMATE SPACING	APPROXIMATE NUMBER
SILKY DOGWOOD	CORNUS AMOMIUM	BARE ROOT (18-24")	6 FOOT ON CENTER	20
PUSSY WILLOW	SALIX DISCOLOR	BARE ROOT (18-24")	6 FOOT ON CENTER	20
BALSAM FIR	ABIES BALSAWEA	BARE ROOT (2'-3')	8 FOOT ON CENTER	25



- PLANTING NOTES:**
- SHRUBS WILL BE PLANTED AS PER SUPPLIER'S SPECIFICATIONS IN AN UPRIGHT POSITION WITHOUT ANY EXPOSED ROOTS
  - PLANTINGS WILL NOT BE INSTALLED IN STANDING WATER. SATURATED SOILS ARE RECOMMENDED FOR PLANTING
  - BARE ROOT SHRUBS WILL BE RANDOMLY PLANTED AND WILL NOT BE ESTABLISHED IN ORGANIZED ROWS

STREAM CHANNEL  
 STREAM ENHANCEMENT-CROSS-SECTIONAL VIEW UPSTREAM

DATE	REVISIONS RECORD/DESCRIPTION	DRAFTED	CHECK	APPR.	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.
					© 2004 C.T. MALE ASSOCIATES, P.C.
					DESIGNED : JMR
					DRAFTED : MWM
					CHECKED : JMR
					PROJ. NO: 05,5399
					SCALE : NOT TO SCALE
					DATE : 12/06/2005

**STREAM ENHANCEMENT  
 CROSS-SECTIONAL VIEW UPSTREAM**

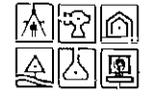
**KERSCH DAM PROJECT**

RENSSELAER COUNTY NEW YORK

**C.T. MALE ASSOCIATES, P.C.**

50 CENTURY HILL DRIVE, P.O. BOX 727, LATHAM, NY 12110  
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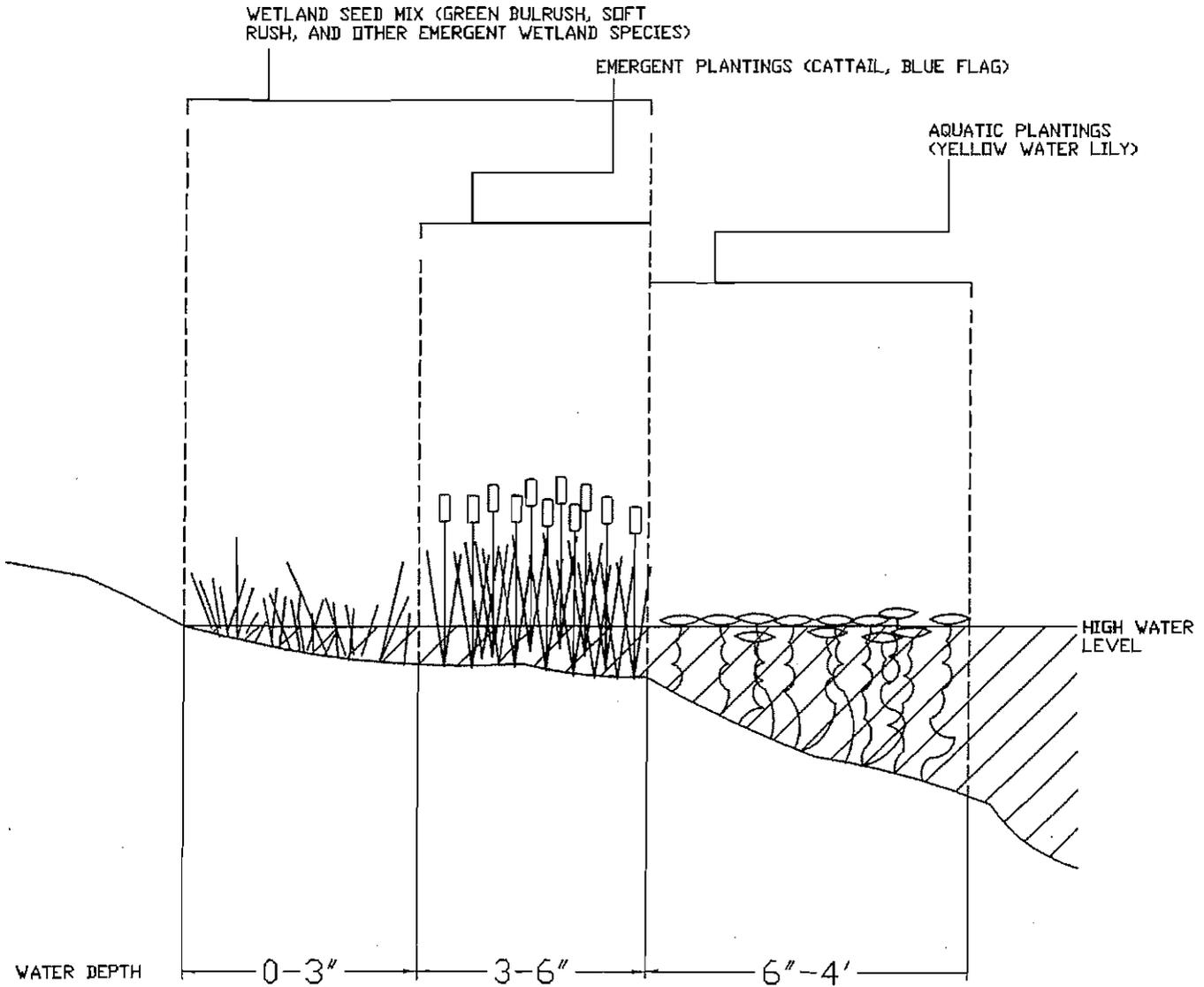


**DET2**  
 SHEET OF  
 DWG. NO:

CAD DWG. FILE NAME: 051301.DWG

D. DWG. FILE NAME: 051301.DWG

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Date	RECORD OF WORK	Appr.

TYPICAL CROSS-SECTION OF  
 PROPOSED WETLAND FRINGE AREAS  
 KERSCH DAM PROJECT

RENSSELAER COUNTY NEW YORK

**C.T. MALE ASSOCIATES, P.C.**  
 50 CENTURY HILL DRIVE, P.O. BOX 727, LATHAM, NY 12110  
 518.786.7400 • FAX 518.786.7299

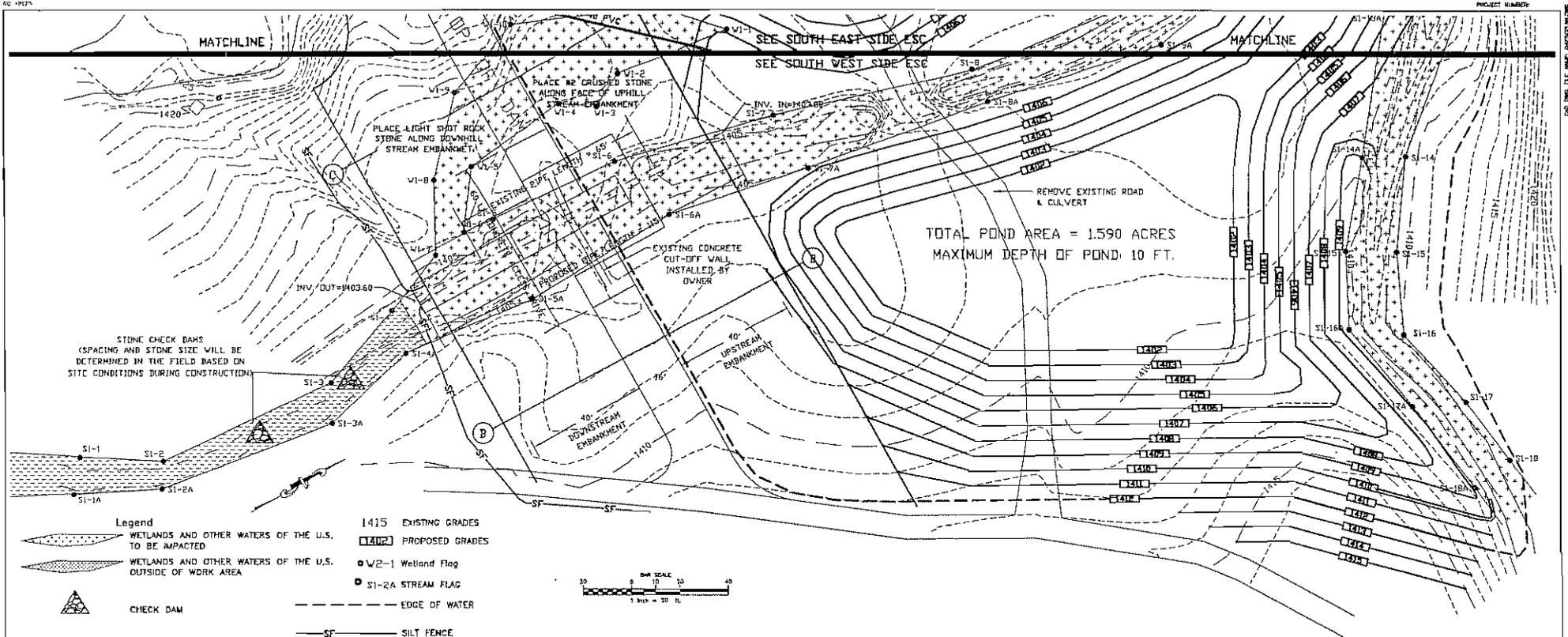
Architecture & Building Systems Engineering • Civil Engineering  
 Environmental Services • Survey & Land Information Services

Drafter: MWM Checker: JMR

Appr. by: Proj. No. 05.5399

SCALE: NOT TO SCALE DATE: 0/00/05

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**MAP REFERENCE:**  
 1. MAP ENTITLED "WETLANDS SURVEY" DATED OCTOBER 23, 2003, AS PREPARED BY RUSS REEVES CIVIL ENGINEER, LICENSED 063979, BEARING DWG. NO. W-11.

- STOCKPILE NOTES:**
- TOPSOIL AND FILL THAT IS TO REMAIN STOCKPILED ON-SITE FOR PERIODS GREATER THAN 30 DAYS SHALL BE STABILIZED BY SEEDING. PRIOR TO THE SEEDING OPERATION, THE STOCKPILED MATERIAL SHALL BE GRADED AS NEEDED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. IN NO CASE SHALL ERODIBLE MATERIALS BE STOCKPILED WITHIN 25 FT. OF ANY DITCH, STREAM, OR OTHER SURFACE WATER.
  - HAY BALE BERMS SHALL BE CONSTRUCTED AROUND ALL STOCKPILES OF FILL, TOPSOIL AND EXCAVATED OVERBURDEN THAT ARE TO REMAIN EXPOSED FOR PERIODS LESS THAN 30 DAYS. HAY BALE BERMS SHALL BE ANCHORED AND MAINTAINED IN GOOD CONDITION UNTIL SUCH TIME AS SAID STOCKPILES ARE REMOVED AND STOCKPILING AREAS ARE BROUGHT TO FINAL GRADE AND PERMANENTLY STABILIZED.

- HAY BALES & SILT FENCE NOTES:**
- HAY BALES SHOULD BE INSET AT LEAST 4" INTO THE GROUND (6" MINIMUM FOR SOFT GROUND). STAKE ALL BALES TO RESIST WATER FORCES. HAY BALES SHOULD EXTEND FAR ENOUGH UP SLOPE TO PREVENT WATER FROM FLOWING AROUND ENDS AND CAUSING WASHOUT.
  - SILT FENCE AND/OR HAY BALES WILL BE PLACED ON THE DOWNSLOPE SIDE OF EXCAVATED AREAS AND AROUND SOIL STOCKPILES. SILT FENCING WILL ALSO BE PLACED AROUND THE BOUNDARY OF WETLANDS ADJACENT TO THE WORK AREA, AND AT THE EDGE OF WETLANDS AFTER CONSTRUCTION IS COMPLETED, WITHIN RESIDENTIAL AREAS. SILT FENCE SHOULD BE INSTALLED ALONG THE PERIMETER OF THE ENTIRE WORK AREA WHEN WORK IS CONDUCTED IN LAWNS.
  - SILT FENCE MUST BE REPAIRED OR REPLACED WHEN THE ENDS ARE FRAYED OR WORN, AND THE FENCE IS NOT ANCHORED 6" INTO THE GROUND. WHEN THE ACCUMULATED SEDIMENT REACHES 30% OF THE SILT FENCE HEIGHT, THE SEDIMENT WILL BE REMOVED AND DISPOSED OF IN AN APPROPRIATE UPLAND AREA.

- GENERAL NOTES:**
- ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH SITE WORK THAT INVOLVES PHYSICAL GROUND DISTURBANCE ON THE PROJECT SITE SHALL SIGN AND DATE A COPY OF THE CERTIFICATION STATEMENT WHICH IS LOCATED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), BEFORE UNDERTAKING ANY CONSTRUCTION ACTIVITY.
  - THE SEDIMENT CONTROL MEASURES DETAILED ON THIS SHEET SHALL BE IN PLACE PRIOR TO CONSTRUCTION START-UP FOR EACH CONSTRUCTION PHASE. AT A MINIMUM THESE MEASURES CONSIST OF SILT FENCE AND CHECK DAMS. ONCE CONSTRUCTED, ALL MEASURES SHALL BE PROPERLY MAINTAINED AND/OR REPLACED AS NECESSARY, AND THEN REMOVED FROM THE SITE ONCE THE SITE IS STABILIZED.
  - FOLLOWING THE COMMENCEMENT OF CONSTRUCTION, SITE INSPECTIONS WILL BE CONDUCTED AT LEAST EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.
  - BASED ON THE WEEKLY SITE INSPECTIONS, THE EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE SWPPP SHALL BE REVISED AS SITE CONDITIONS WARRANT. THE CONTRACTOR SHALL IMPLEMENT THESE CHANGES AS SOON AS PRACTICABLE.
  - THE EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR UNTIL THE FINAL SURFACE TREATMENT IS INSTALLED AND THE VEGETATED AREAS HAVE BEEN STABILIZED WITH AT LEAST BOX VEGETATIVE COVER. THE PROPERTY OWNER WILL ASSUME RESPONSIBILITY FOR MAINTAINING THE EROSION AND SEDIMENT CONTROL SYSTEM(S) THEREAFTER.
  - CONSTRUCTION IS TO PROCEED IN ACCORDANCE WITH THE CONSTRUCTION PHASING SCHEDULE SUPPLIED BY THE CONTRACTOR OR SHOWN ON THE PLANS. OUTSIDE THE GROWING SEASON, OTHER METHODS OF SOIL STABILIZATION (SUCH AS THE USE OF JUTE MESH AND EXCESSIVE MATTING) WILL BE USED UNTIL SUCH TIME AS VEGETATIVE COVER CAN BE ESTABLISHED.
  - INsofar AS PRACTICABLE, EXISTING VEGETATION SHALL BE PRESERVED. SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE AREA AND DURATION OF SOIL DISTURBANCE. ALL UNNECESSARY REMOVAL OF WOODY VEGETATION SHALL BE AVOIDED.
  - TRENCH DEWATERING WILL BE CONDUCTED USING A PORTABLE PUMP AND HOSE, AS NECESSARY. EXCESS WATER WILL BE PUMPED TO A DEWATERING STRUCTURE OR GEOTEXTILE FILTER BAG LOCATED IN A WELL VEGETATED UPLAND AREA. WHEN COMPLETED, ALL DEPOSITED SEDIMENTS WILL BE PROPERLY MANAGED IN UPLAND AREAS OR DISPOSED OF OFF-SITE.

DATE TIME FILE NAME: 05/23/05

DATE	REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.	APPROVED/REVISION OF APPROVED TO THE LOCATION & NUMBER OF SHEETS THIS SHEET IS PART OF THE PROJECT

**EROSION AND SEDIMENT CONTROL PLAN**

**KERSCH DAM PROJECT**

RENSSELAER COUNTY NEW YORK

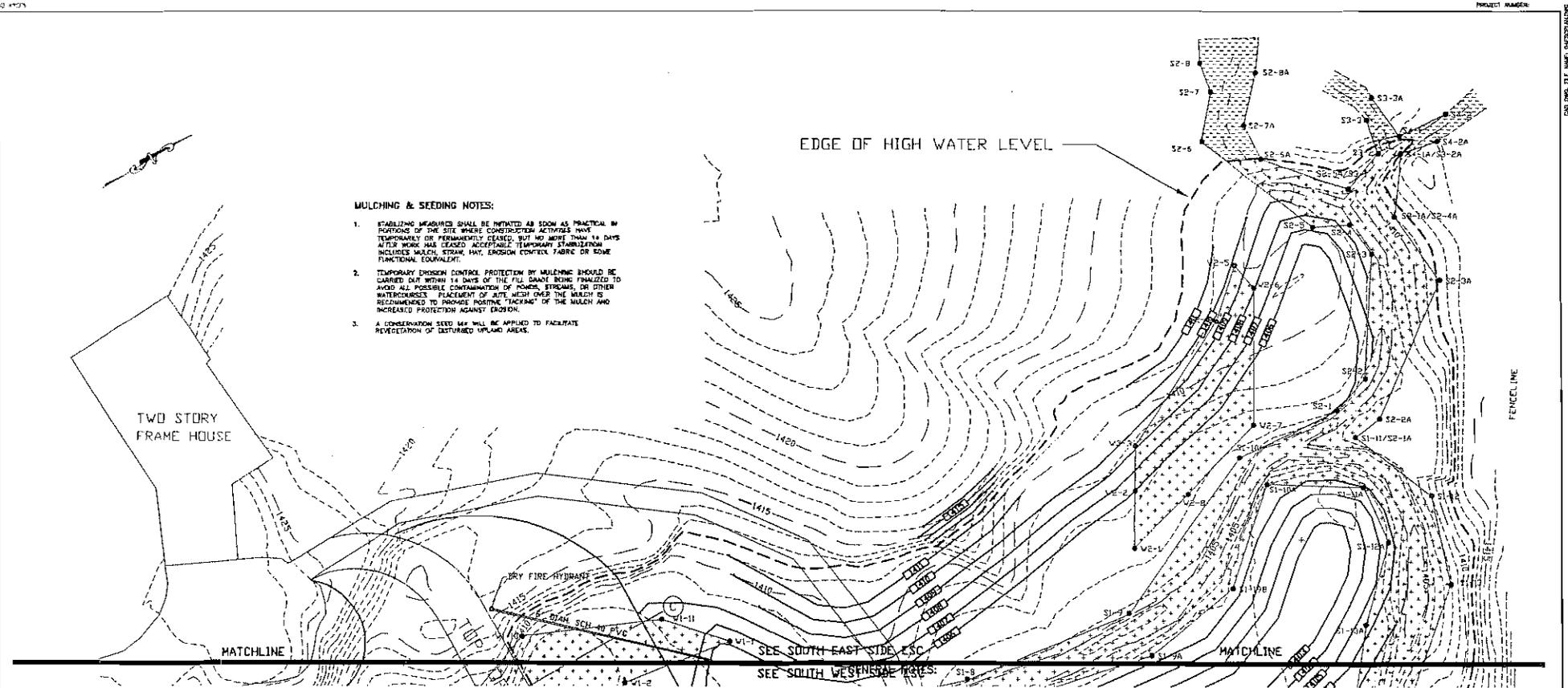
**C.T. MALE ASSOCIATES, P.C.**

30 CENTURY HILL DRIVE, P.O. BOX 727, LATHAM, NY 12110  
 518.767.400 • FAX 518.768.3299

SCALE: 1"=20'  
 DATE:

PROJECT: A BUILDING SYSTEM ENGINEERING • CIVIL ENGINEERING ENVIRONMENTAL SERVICES • SURVEY & LAND INFORMATION SERVICES

**ESC**  
 SHEET 4 OF 9  
 DWG. NO.



**MULCHING & SEEDING NOTES:**

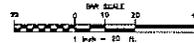
1. STABILIZING MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT NO MORE THAN 14 DAYS AFTER WORK HAS CEASED. ACCEPTABLE TEMPORARY STABILIZATION INCLUDES MULCH, STRAW MAT, EROSION CONTROL FABRIC OR SOME FUNCTIONAL EQUIVALENT.
2. TEMPORARY EROSION CONTROL PROTECTION BY MULCHING SHOULD BE CARRIED OUT WITHIN 14 DAYS OF THE FILL GRANT BEING FINALIZED TO AVOID ALL POSSIBLE CONTAMINATION OF PONDS, STREAMS, OR OTHER WATERBODIES. PLACEMENT OF MULCH OVER THE MOUND IS RECOMMENDED TO PROMOTE POSITIVE "TRACKING" OF THE MULCH AND INCREASED PROTECTION AGAINST EROSION.
3. A CONSERVATION SEED MIX WILL BE APPLIED TO FACILITATE REVEGETATION OF DISTURBED UPLAND AREAS.

**WETLAND/STREAM CONSTRUCTION NOTES:**

1. ADHERE TO THE CONDITIONS OF THE U.S. ARMY CORPS OF ENGINEERS PERMIT CONDITIONS.
2. MINIMIZE THE DURATION OF CONSTRUCTION-RELATED DISTURBANCE WITHIN WETLANDS OR STREAMS TO THE MAXIMUM EXTENT PRACTICABLE.
3. CUT VEGETATION AND TREES OUT AT GROUND LEVEL (WHEN AND AS NECESSARY), LEAVING EXISTING ROOT SYSTEMS INTACT AND REMOVE CLEARING DEBRIS.
4. RELOADING OF CONSTRUCTION EQUIPMENT TO TAKE PLACE AT LEAST 100 FEET FROM A WETLAND OR WATERBODY BENCHMARK.
5. EXCAVATING SHALL BE ACCOMPANIED BY USING SLOTTED FILTER BAGS AND/OR MAT BALE AND SILT FENCE STRUCTURES SO THAT NO HEAVY SILT-LADEN WATER FLOWS INTO WETLANDS OR OTHER WATERBODIES.
6. REMOVE CONSTRUCTION DEBRIS FROM WETLAND AREAS UPON COMPLETION OF CONSTRUCTION.
7. WETLAND CREATION AREAS WILL BE SEEDING ONCE GRADING IS COMPLETED IN ACCORDANCE WITH THE SEEDING PLAN (REFER TO WETLAND MITIGATION AND PLANTING PLAN DRAWING).

**Legend**

- WETLANDS AND OTHER WATERS OF THE U.S. TO BE IMPACTED
- WETLANDS AND OTHER WATERS OF THE U.S. OUTSIDE OF WORK AREA
- CHECK DAM
- 1415 EXISTING GRADES
- 1402 PROPOSED GRADES
- W2-1 Wetland Flag
- S1-2A STREAM FLAG
- EDGE OF WATER
- SILT FENCE



**MAP REFERENCE:**  
 1. MAP ENTITLED "WETLANDS SURVEY" DATED OCTOBER 23, 2003, AS PREPARED BY RUSS REEVES CIVIL ENGINEER, LICENSED 063979, BEARING DWG. NO. W-11.

DATE	REVISIONS RECORD/DESCRIPTION	DRAFTER/CHECK	APPR.	LIMITED LIABILITY NOTICE: I, THE ENGINEER, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK AND THAT I AM THE DESIGNER OF THIS PROJECT.
				D. ZIM C.T. MALE ASSOCIATES, P.C. DESIGNED QUALIFIED MPM CHECKED PROJ. NO. 05.5389 SCALE: 1"=20' DATE:

**EROSION AND SEDIMENT CONTROL PLAN**  
**KERCH DAM PROJECT**

RENSSELAER COUNTY, NEW YORK

**ESC**

SHEET 4 OF 5  
 DWG. NO.

