



STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC WORKS
TECHNICAL SERVICES
Environmental Planning



LETTER OF TRANSMITTAL via EMAIL

TO: Danielle Missell
 IWRD DEP

DATE: May 17, 2011
PROJECT: BI-RT-829
RE: Henry Abbott
 Technical High School
 Padanaram Brook
 Stream Bank
 Stabilization
 Additional Material

FROM: Jeff Bolton
 Supervising Environmental Analyst
 Department of Public Works
 Technical Services
 165 Capital Ave., Room 275
 Hartford, CT 06106

I AM SENDING YOU: Attached The following:

- Drawings Prints Plans CEPA Document
 Digital Data Report Application Other

copies	date	description
1	Apr 28, 2011	DTC Cover Letter Response to Comments and support material
1		CD of HEC-RAS Files

THESE ARE TRANSMITTED as checked below:

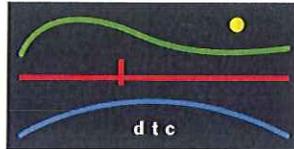
- For approval Approved as submitted Resubmit copies for approval
 For your use Approved as noted Submit copies for distribution
 As requested Returned for corrections Return corrected prints
 For review and comment

Remarks:
 Please feel free to contact me with any questions.

cc: DPW Env. Admin. Project File
 A. Richmond, DOE
 S. Longo, DPW
 A. Bevilacqua, DTC

SIGNED:

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April 28, 2011

Danielle Missell
Inland Water Resources Division
Connecticut Dept. of Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

**SUBJECT: WQC-201005836/IW-201005837/FM-201005835
Henry Abbott Regional Technical High School
Padanaram Brook
Danbury, CT
DTC Project No.: 07-134-606**

Dear Ms Missell:

I am writing in response to a letter Dated March 30, 2011 regarding the Permit application referenced above. In the letter, the following comments were made:

1. Submit a map showing the location of surveyed cross sections with respect to FEMA published cross sections.

Response: We are submitting a new figure with both the surveyed cross sections and the published FEMA cross sections.

2. Since FEMA input information is not available for the site; the applicant must provide the DEP with the correspondence from FEMA indicating that the requested material cannot be supplied. Applicants may use field survey data to produce a model that matches as closely as possible to the published FIS model. The cross sections should be taken as close to FEMA sections as possible and the report must show that FEMA published data is utilized in the hydraulic model, such as discharge, floodway widths, and water surface elevations. (Refer to Conn. DEP Hydraulic Analysis Guidance Document)

Response: The model was created using field survey cross sections and FEMA published discharges, and water surface elevations. The floodway model was created using FEMA published floodway widths. We have included correspondence with FEMA showing our attempt to obtain FEMA input data for the brook. We submitted the initial request September 22, 2009 to obtain paper copies of input and output data. The next correspondence is a September 28, 2009 e-mail from FEMA sending us a link with all the information that they had available for Padanaram Brook. Next is an October 7, 2009 email from DTC asking FEMA to check if they had input data for the

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Brook because what the initially sent contained only output data. The last e-mail Dated October 7, 2009 is from FEMA sending us a link to the same information that was sent initially. In conclusion we were not able to obtain input data for this section of the brook.

3. At minimum, the hydraulic submittal must include: Duplicate and Corrected Effective Models, Natural Model, Existing and Proposed Models designed for a 10 and a 100-year flood; and a Temporary Model designed for a 2-year storm.

Response: We are unable to create Duplicate and Corrected Effective models because input data is not available from FEMA. We have updated the HEC-RAS model to include a natural conditions and a temporary conditions model for a 2-year storm.

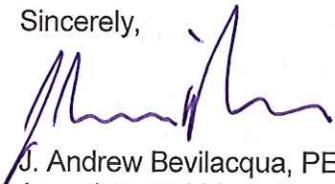
4. As a starting point for a hydraulic modeling of a river mapped by FEMA, the most recent cross sections published in the specific community's Flood Insurance Study should be used.

Response: Cross-section input data was not available from FEMA. We only received output Data from FEMA for this project.

5. According to the state requirements for compensatory storage, the project must show compensatory storage for the reduction of the water holding capacity of the floodplain caused by filling and new construction.

Response: We are submitting a sketch and photos showing an area of compensatory storage area. The use of this area would include the removal of 110 square yards of existing tree line with a stable bank.

Sincerely,



J. Andrew Bevilacqua, PE
Associate and Manager of Civil Engineering
Diversified Technology Consultants, Inc.

Enclosure: Compensatory Storage area sketch
Photos
FEMA correspondence

cc: Jeff Bolton-Dept. of Public Works, 165 Capital Ave, Room 275, Hartford CT 06106
Steven Longo- Dept. of Public Works, 165 Capital Ave, Room 460, Hartford CT 06106

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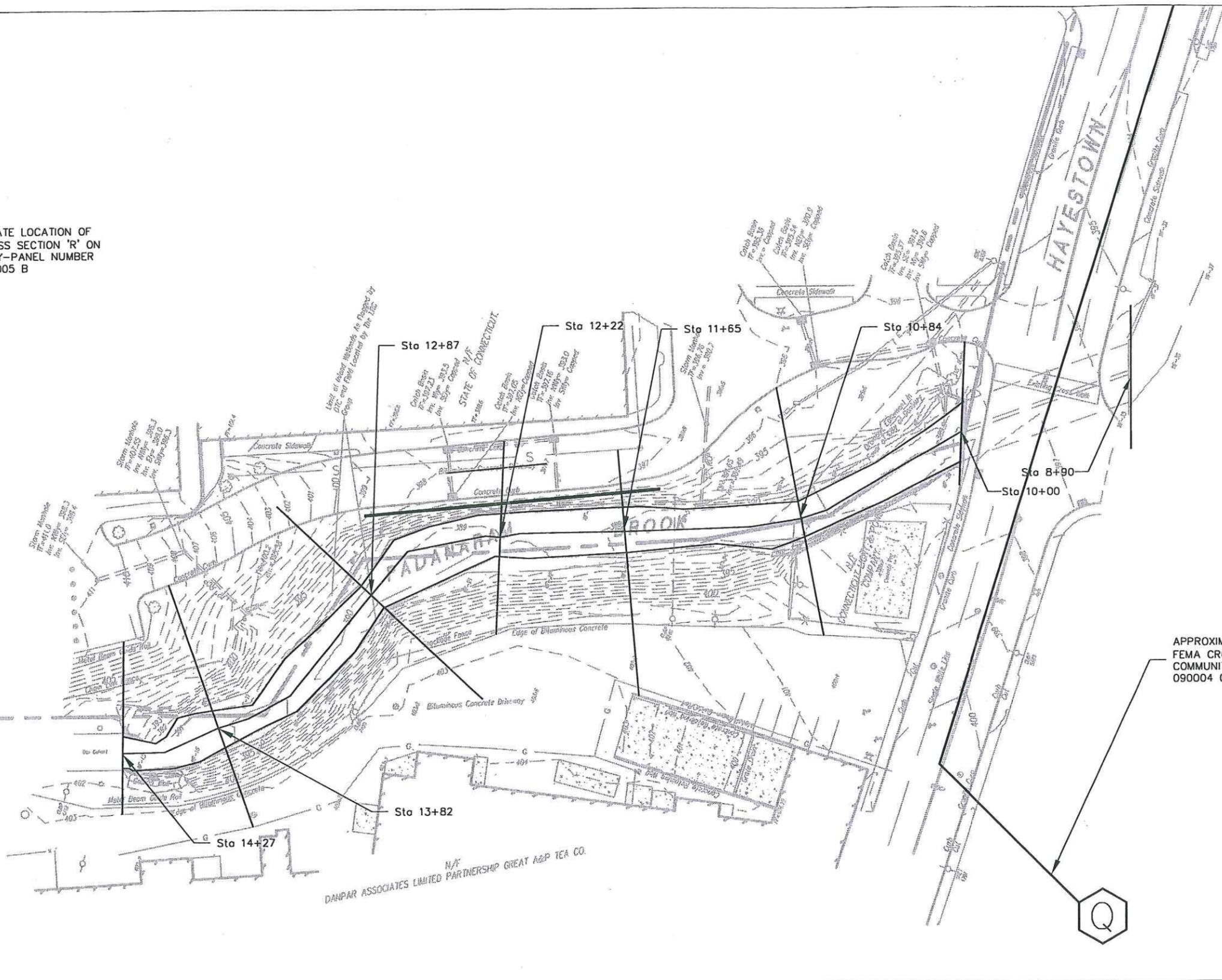
203 239 4200 Ph 203 234 7376 Fax

APPROXIMATE LOCATION OF
FEMA CROSS SECTION 'R'
ON
COMMUNITY-PANEL NUMBER
090004 0005 B

R

APPROXIMATE LOCATION OF
FEMA CROSS SECTION 'Q'
ON
COMMUNITY-PANEL NUMBER
090004 0005 B

Q



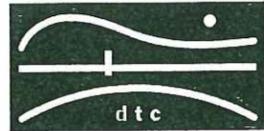
NOTES:

CROSS SECTION LOCATION PLAN WITH RESPECT TO FEMA
PUBLISHED CROSS SECTIONS
BANK STABILIZATION FOR SECTION OF PADANARAM BROOK

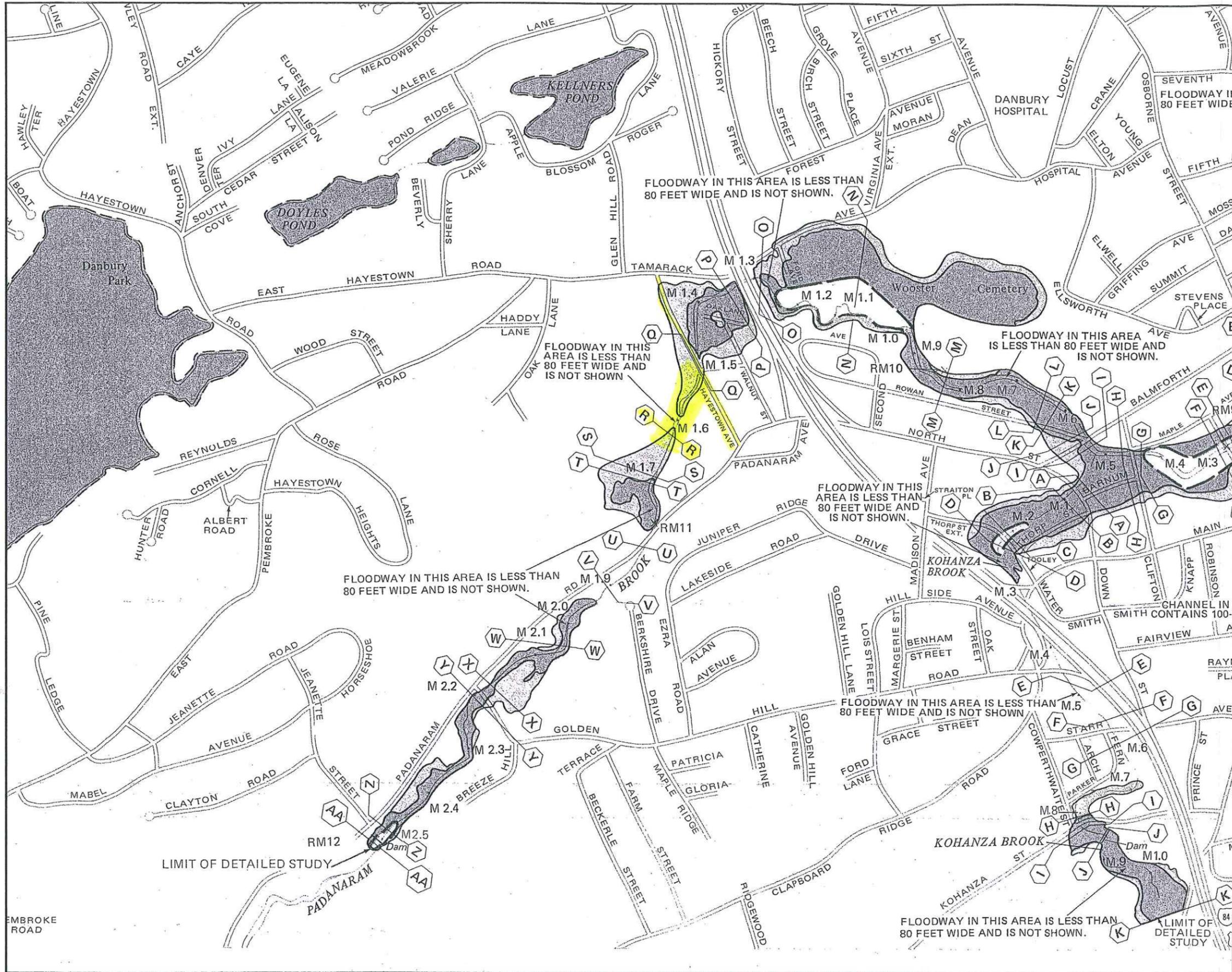
DANBURY, CT

Figure 4

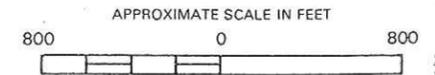
DRAWN BY:	FJC
CHECKED BY:	JAB
SCALE:	1"=50'
DATE:	April 8, 2011
DTC NUMBER:	07-134-606



DIVERSIFIED TECHNOLOGY CONSULTANTS
556 WASHINGTON AVENUE NORTH HAVEN CT 06473
203 239 4200 203 234 7376 FAX



FOR DESCRIPTION OF ELEVATION REFERENCE MARKS, SEE SEPARATELY PRINTED FLOOD INSURANCE STUDY REPORT.



NATIONAL FLOOD INSURANCE PROGRAM

**FLOODWAY
FLOOD BOUNDARY AND
FLOODWAY MAP**

**CITY OF
DANBURY,
CONNECTICUT
FAIRFIELD COUNTY**

(SEE MAP INDEX FOR PANELS NOT PRINTED)
PANEL 5 OF 20

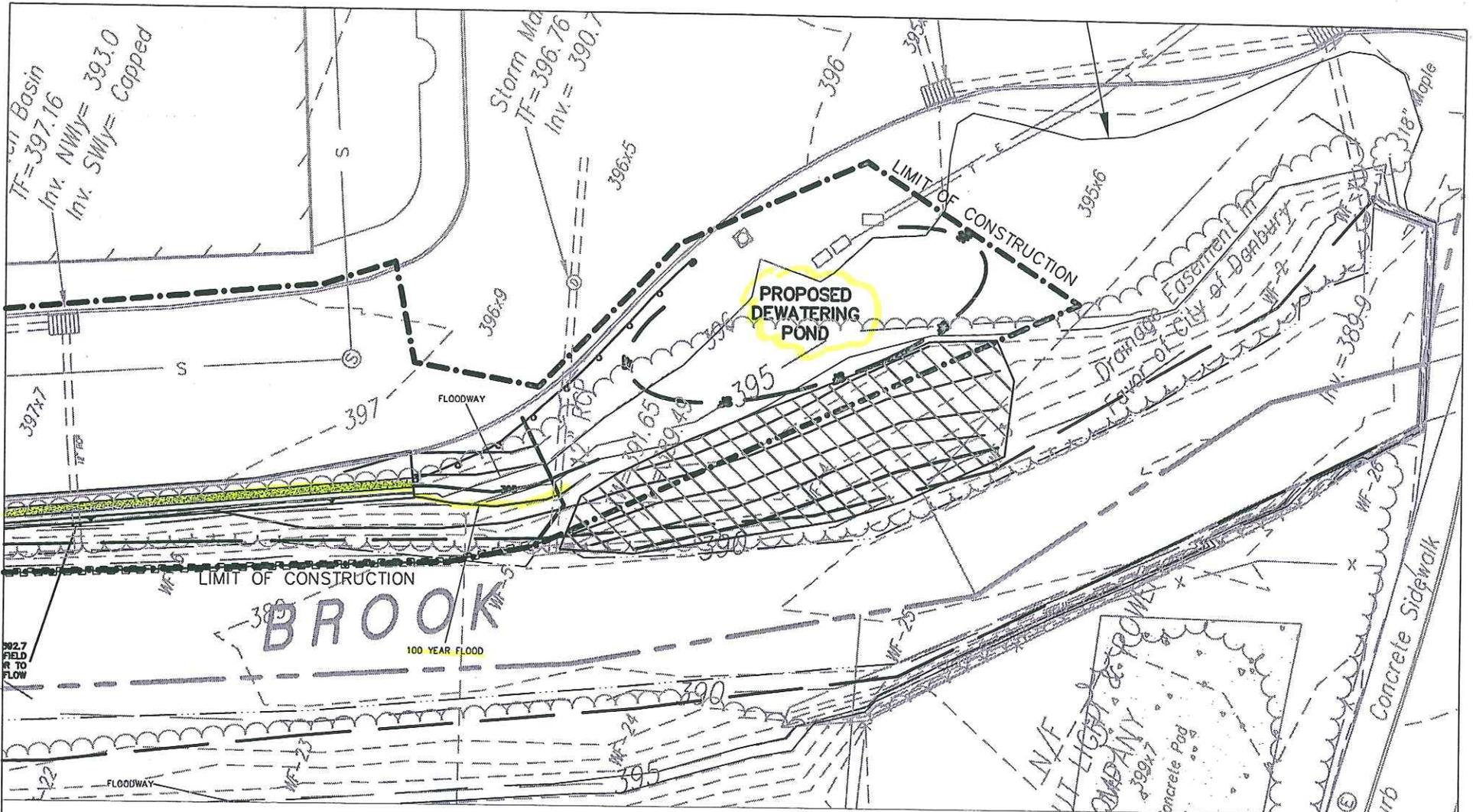
**COMMUNITY-PANEL NUMBER
090004 0005 B**

**MAP REVISED:
APRIL 16, 1982**



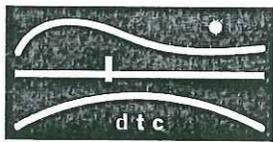
Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



 PROPOSED CUT AREA

- NOTES:
1. PROPOSED FILL - 20 CY
 2. PROPOSED CUT - 21 CY
- PROPOSED CUT OCCURS IN APPROXIMATELY 110 SY OF AN EXISTING WOODED AREA.



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NOTES:

ABBOTT TECHNICAL HIGH SCHOOL

DANBURY, CT

GRAPHIC SCALE



(IN FEET)

Option 1

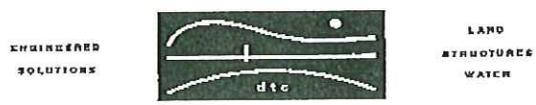
DRAWN BY: FJC
CHECKED BY: JAB
SCALE: 1"=20'
DATE: 4/11/2011
DTC NUMBER: 07-134-605

* * * COMMUNICATION RESULT REPORT (SEP. 22. 2009 3:55PM) * * *

FAX HEADER 1: DIVERSIFIED TECH
FAX HEADER 2:

TRANSMITTED/STORED : SEP. 22. 2009 3:54PM	ADDRESS	RESULT	PAGE
FILE MODE OPTION	G3 : 17032124090	OK	4/4

REASON FOR ERROR
 E-1) HANG UP OR LINE FAIL
 E-3) NO ANSWER
 E-5) MAIL SIZE OVER
 E-2) BUSY
 E-4) NO FACSIMILE CONNECTION



FAX SHEET

09/22/09

DATE / TIME

FEMA Project Library 703-212-4090

ATTENTION COMPANY FAX NUMBER

COPY TO COMPANY FAX NUMBER

A. Bevilacqua DTC 203.234.7376

SENDER COMPANY FAX NUMBER

Abbott Technical High School, Danbury 07-134-606

PROJECT NAME PROJECT NUMBER

3

NUMBER OF PAGES FOLLOWING

No Hard Copy to Follow U.S. Mail Overnight Delivery

HARD COPY DELIVERY

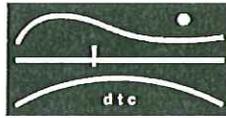
INFORMATION SENT

Request for back-up data along with initial fee payment form

CONFIDENTIALITY NOTICE

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FAX SHEET

FAXED
9-22-09

09/22/09

DATE / TIME

FEMA Project Library

703-212-4090

ATTENTION

COMPANY

FAX NUMBER

COPY TO

COMPANY

FAX NUMBER

A. Bevilacqua

DTC

203.234.7376

SENDER

COMPANY

FAX NUMBER

Abbott Technical High School, Danbury

07-134-606

PROJECT NAME

PROJECT NUMBER

3

NUMBER OF PAGES FOLLOWING

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U.S. Mail

Overnight Delivery

HARD COPY DELIVERY

INFORMATION SENT

Request for back-up data along with initial fee payment form

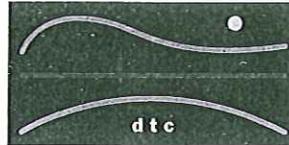
CONFIDENTIALITY NOTICE

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ANDOVER, MA

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September 22, 2009

FEMA Project Library
847 South Pickett Street
Alexandria, VA 22304-6425
Phone: 877-336-2627

RE: Request for FEMA Back-up Data
Padanaram Brook between Route 84 and Padanaram Road
Danbury, CT
DTC No.: 07-134-606

Dear Sirs:

Please research and provide copies of the Category 1 information detailed below. We have attached the required Credit Card Information to cover the \$135 initial fee associated with this research. Specific information related to this request is as follows:

Community Name:

City of Danbury, Connecticut, Fairfield County

Community Identification Number:

090004

Name of Flooding Source:

Padanaram Brook

Specific Data Needed:

Paper copies of normal and floodway run input data and hydraulic results for all hydraulic sections between FEMA Cross Section 'O' and Cross Section 'T'.

Effective Date:

Back-up data used in generating the current regulatory flood mapping at the subject location. Effective FIS was dated April 16, 1982.

Contact Information:

J. Andrew Bevilacqua, P.E.
Associate & Manager of Civil Engineering
Diversified Technology Consultants
2321 Whitney Avenue
Suite 301
Hamden, CT 06518
203.239.4200 (p)
203.234.7376 (f)
andy@teamdtc.com

File Format for Digital Mapping:

Not needed

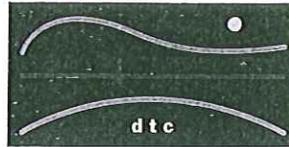
Projection and Datum of Digital Mapping:

Not needed

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FEMA Project Library
September 22, 2008
Page Two

If you have any questions, please contact the undersigned.

Sincerely,

DIVERSIFIED TECHNOLOGY CONSULTANTS

A handwritten signature in black ink, appearing to read 'J. Andrew Bevilacqua', written over a horizontal line.

J. Andrew Bevilacqua, P.E.
Associate & Manager of Civil Engineering

Encl. (FEMA Form 81-107 - Credit Card Information)

2

Bevilacqua, Andrew

From: dan.hufford@riskmapcds.com
Sent: Monday, September 28, 2009 5:16 PM
To: Bevilacqua, Andrew
Subject: Floodmaps eFTP Notification

A file has been submitted to Floodmaps.net eFTP for you to download:

You can follow the link below to start the download.
<http://www.floodmaps.net/eftp/default.asp?op=get&FName=danbury%2Ezip>

NOTES:

RECIPIENTS: andy@teamdttc.com

SENDER: dan.hufford@riskmapcds.com

You can also retrieve the file manually from:
<http://www.floodmaps.net/eftp/>
Retrieve the file(s):
danbury.zip

Please note this upload's file(s) will be deleted on approximately Monday, October 05, 2009 due to site file retention policy.

3

Bevilacqua, Andrew

From: Bevilacqua, Andrew
Sent: Wednesday, October 07, 2009 9:14 AM
To: 'dan.hufford@riskmapcds.com'
Subject: RE: Floodmaps eFTP Notification (Z0901045)

Dan,

As we discussed, the information that you provided only includes output information, and no input data. Have you had any luck in locating the input information? Please let me know.

Thanks,

Andy

-----Original Message-----

From: dan.hufford@riskmapcds.com [mailto:dan.hufford@riskmapcds.com]
Sent: Monday, September 28, 2009 5:16 PM
To: Bevilacqua, Andrew
Subject: Floodmaps eFTP Notification

A file has been submitted to Floodmaps.net eFTP for you to download:

You can follow the link below to start the download.
<http://www.floodmaps.net/eftp/default.asp?op=get&FName=danbury%2Ezip>

NOTES:

RECIPIENTS: andy@teamdtc.com

SENDER: dan.hufford@riskmapcds.com

You can also retrieve the file manually from:

<http://www.floodmaps.net/eftp/>

Retrieve the file(s):

danbury.zip

Please note this upload's file(s) will be deleted on approximately Monday, October 05, 2009 due to site file retention policy.

4

Bevilacqua, Andrew

From: dan.hufford@riskmapcds.com
Sent: Wednesday, October 07, 2009 2:21 PM
To: Bevilacqua, Andrew
Subject: Floodmaps eFTP Notification

A file has been submitted to Floodmaps.net eFTP for you to download:

You can follow the link below to start the download.

<http://floodmaps.net/eftp/default.asp?op=get&FName=PADANARAM%5FBROOK%2D%2D090004%2D%2DSTUDY%2D%2DHEC%2D2%2Epdf>

NOTES:

RECIPIENTS: andrew.bevilacqua@teamdtc.com

SENDER: dan.hufford@riskmapcds.com

You can also retrieve the file manually from:

<http://floodmaps.net/eftp/>

Retrieve the file(s):

PADANARAM_BROOK--090004--STUDY--HEC-2.pdf

Please note this upload's file(s) will be deleted on approximately Wednesday, October 14, 2009 due to site file retention policy.



