PUBLIC NOTICE

US Army Corps
of Engineers ®
New England District

696 Virginia Road
Concord, MA 01742-2751

Date: December 1, 2009
Comment Period Ends: January 4, 2010
File Number: NAE-2008-1665
In Reply Refer To: William J. Mullen
Or by e-mail: william.j.mullen@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.

APPLICANT ABB, Inc. c/o Keith Knauerhase, 2000 Day Hill Road, Windsor, Connecticut 06095

ACTIVITY To remediate 24,500 square feet (0.56 acres) of wetlands by removing approximately 1300 cubic yards of radiological-contaminated soil and sediments to a depth of approximately 1.5 feet below the ground surface and to subsequently restore the disturbed wetlands.

A detailed description and plans of the activity are attached.

WATERWAY AND LOCATION OF THE PROPOSED WORK
This work is proposed in Site Brook (Farmington River tributary) at ABB Inc.'s property at 2000 Day Hill Road, Windsor, Connecticut 06095. The proposed location on the USGS Windsor Locks quadrangle sheet is at Lat 41 53' 28" N, Long 72 43' 04" W

AUTHORITY
Permits are required pursuant to:
_____Section 10 of the Rivers and Harbors Act of 1899
__X__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

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.

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/or Tribal Historic Preservation Officer(s)

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

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

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 Bill Mullen at (978) 318-8559, (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.

for Diane M. Ray
Robert J. DeSista
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: _____

PROPOSED WORK AND PURPOSE

The work includes the remediation of 24,500 square feet (0.56 acres) of wetlands by removing approximately 1300 cubic yards of radiological-contaminated soil and sediments to a depth of approximately 1.5 feet below the ground surface and to subsequently restore the disturbed wetlands.

ABB Inc. acquired the 600-acre site at 2000 Day Hill Road in Windsor in the 1990s as part of its acquisition of Combustion Engineering, Inc. who had occupied the site since 1957. The site was used for research and development, engineering, production, and servicing of nuclear and fossil fuel systems by Combustion Engineering from 1957 to 2000 with low levels of radioactive wastes and hazardous wastes generated at the site. A decommissioning plan was developed by the applicant in conjunction with the Nuclear Regulatory Commission and Connecticut Department of Environmental Protection in 2003 to allow the site to meet cleanup levels for unrestricted use. The subject wetlands cleanup is one of the final steps in site cleanup.

Site Brook (unnamed on the USGS topographic map, however) will be remediated in segments beginning at the upstream end of the 3000-foot-long brook, near Goodwin Pond and progressing to the downstream terminus of the brook at the Farmington River (in Rainbow Reservoir). The segments for remediation have been defined by areas of known or suspected contamination as established through previous site environmental characterization efforts. There are nine segments requiring remediation, with a total area of 33,200 square feet (sf), of which approximately 23,300 sf are federal wetlands.

Activities proposed within federal wetlands include:

1. removal of approximately 18,000 sf of wetland and 5300 sf of instream sediment to a depth of approximately 1.5 feet (i.e. approximately 1300 cubic yards of hydric soil and instream sediment);
2. temporary fill of approximately 1200 sf of wetland to construct access roads;
3. replacement of approximately 18,000 sf of wetland soil and 5300 sf of stream sediment (i.e. approximately 1300 cubic yards of fill) for wetland and stream channel restoration.

The project will involve the removal of approximately 9900 sf of upland soil adjacent to federal wetlands (also to a depth of about 1.5 feet) and the temporary disturbance of approximately 27,000 sf of upland soil to construct temporary access roads.

Confirmation sampling will be completed after the initial soil volumes are removed to confirm that uranium levels are below cleanup levels specified in the site decommissioning plan.

In order to accomplish the remediation of Site Brook, the surface water flow will be diverted around each of the segments. Flow diversion is required to facilitate the remediation work, allowing it to conducted in relatively dry conditions. Diversion methods may include the use of temporary check dams, piping, and/or membrane liners. Once water has been diverted, the segments will be surveyed to confirm the existence and extent of contamination in the area.

Contaminated sediment and soil removal will be by vacuum-truck assisted by field personnel using hand tools, and small excavation equipment in an attempt at minimizing disruption to the stream and adjacent wetlands. Existing roadways that run roughly parallel to Site Brook will be used for accessing each segment. Field personnel will run the vacuum hoses from the vehicle to the specific segment by seeking the least obstructed

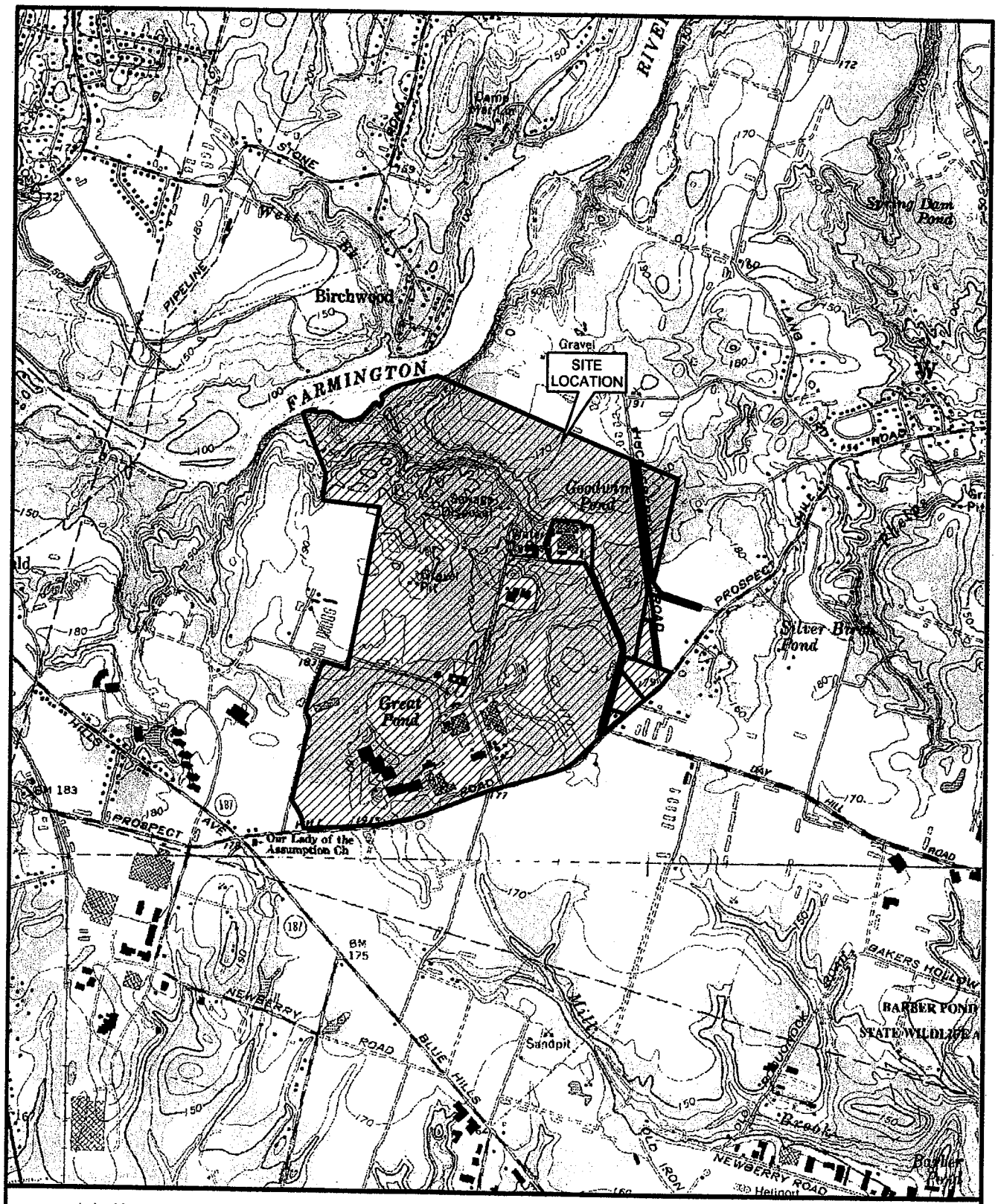
path. Selective clearing of understory leading down to the stream will be minimized in order to keep the forest canopy intact. Construction of additional access roads will be needed to access the brook. Existing roadways will be used to the extent possible and may need to be reinforced with gravel in certain locations. The vacuum equipment to be utilized is capable of moving materials several hundred feet thus allowing the equipment to generally remain outside of the remediation areas. An extensive network of erosion and sediment control fencing will provide a physical barrier between wetlands and construction areas.

Once contaminated materials have been removed and confirmatory sampling results have been obtained, the segments of the brook will be restored with substrate closely matching that which was removed. Backfilling of the stream channel will be performed using materials that are similar to those within the existing stream bed (i.e. similar grain size). The stream channel will be reconstructed to closely match the existing channel, taking into consideration the flow path, entrenchment, and sinuosity of the existing channel. Wetland soil will be blended using a mixture of organic material and mineral soil. Equipment used to transport wetland and stream channel backfill will be limited in size to minimize impacts during the wetland and upland restoration. A wetland seed mixture will be sown to promote re-vegetation of disturbed areas and woody debris will be used to stabilize the wetland soil. Mulch and leaf litter will be used to stabilize disturbed upland areas. Areas disturbed for accessing these segments will be similarly stabilized. Work will proceed in the described manner, with work (including restoration work) being completed at one segment before moving on to the next most downstream segment. Once the restoration activities at all segments has been completed, the temporary access roads will be removed and restored to original grade. The remediated segments in and along the brook and the areas impacted by temporary access roads will be monitored for detrimental erosion for 5 years after project completion, and reports will be submitted to the Army Corps of Engineers Regulatory Division.

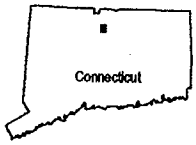
Avoidance of project impacts is unavoidable if the site is to be cleaned up to meet unrestricted uses. Project impacts have been minimized to the greatest possible extent, with mitigation offered to mitigate unavoidable impacts via the restoration of all disturbed wetlands.

The project is being reviewed as an Individual Permit at the request of the Connecticut Department of Environmental Protection (instead of under the Army/Connecticut Programmatic General Permit) due to the presence of two state Species of Special Concern on the site: the eastern box turtle and the eastern hognose snake.

The work is described on the enclosed plans entitled "Site Brook Restoration Plan, CE Winsor Site" on 19 sheets. Figure 1 is a Site Location Map. Figures 1.0 through 1.7 are dated "August 18, 2009", and Figures 2.0 through 2.9 are dated "April 30, 2009".



Index Map



Legend

Site Location

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Map Source: Digital Raster Graphic of USGS 7.5 Minute Quadrangle, Hartford North and Windsor Locks, CT. Obtained from UCONN Map and Geographic Information Center at: http://magic.lib.uconn.edu

Figure 1
Site Location Map

Baseline Ecological Risk Assessment
CE Windsor Site
Windsor, Connecticut
MACTEC, Inc.

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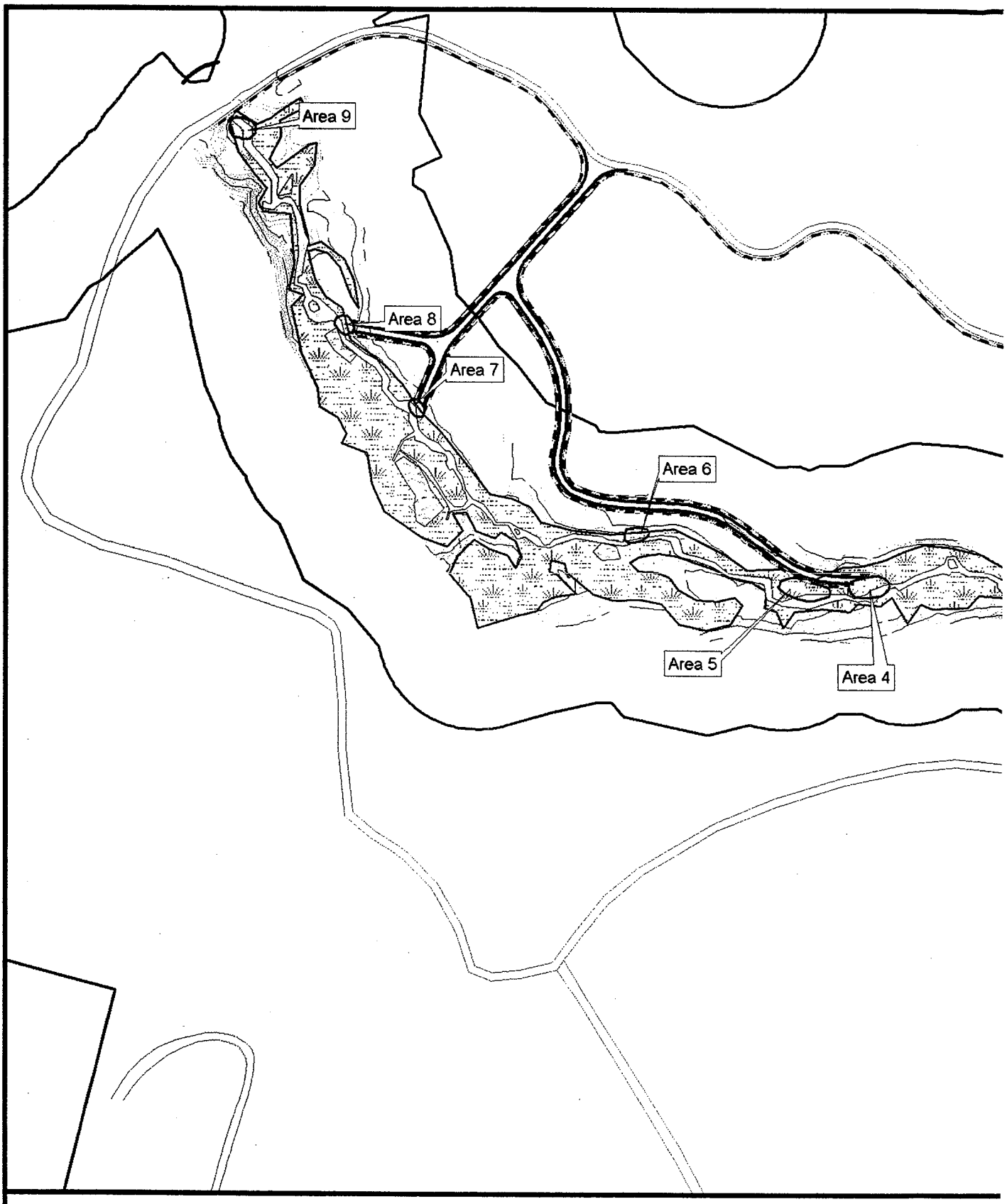

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Proposed Access Roads
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Prepared/Date: CHL 08/18/09 | Checked/Date: IAB 08/18/09

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Figure 1.0
Proposed Remediation Areas - Site Brook

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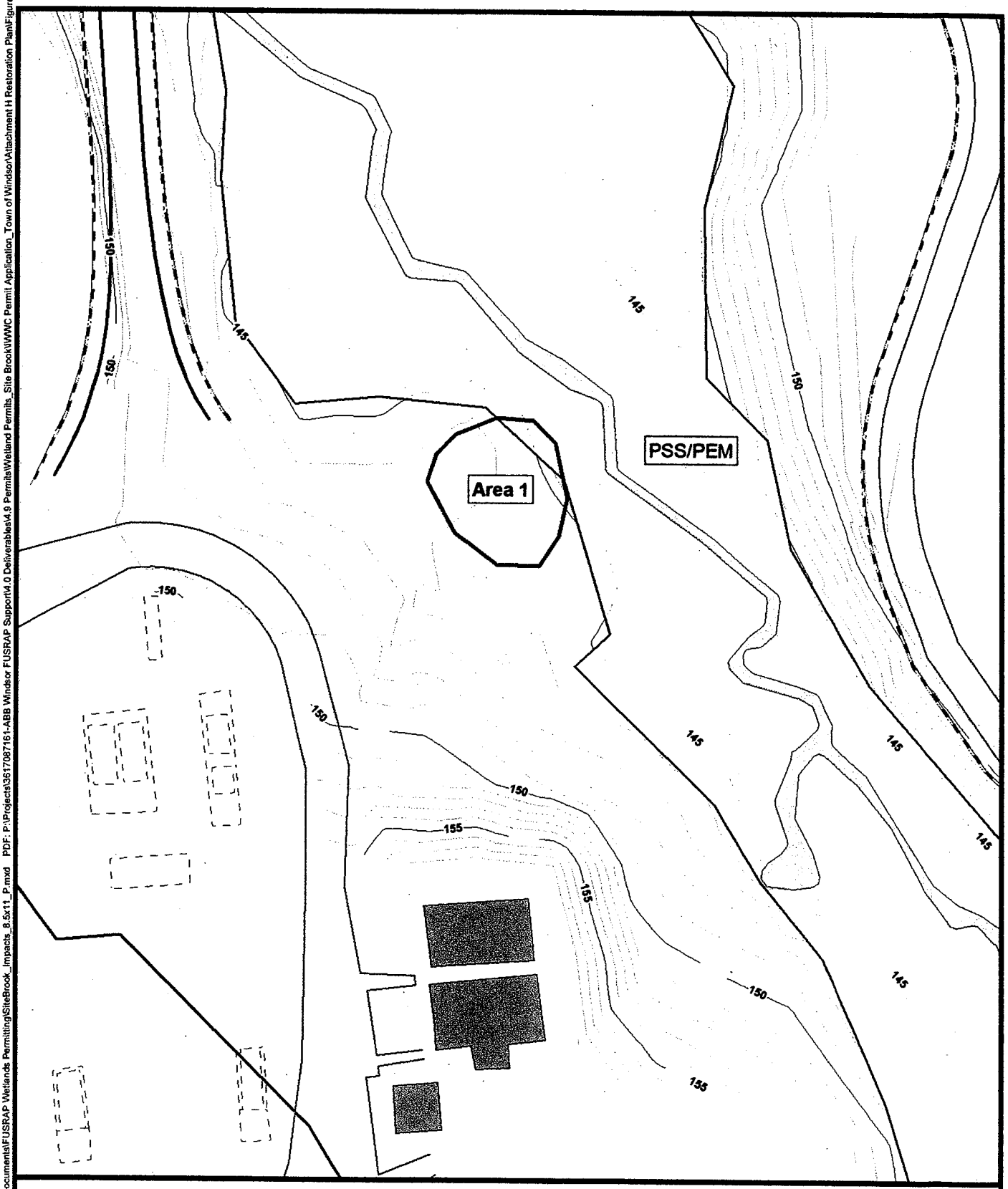
l review area

Site Brook Stream Channel
PFO
PSS/PEM
Upland Island

Site Brook Restoration Plan
CE Windsor Site
Windsor, Connecticut
MACTEC, Inc.



Legend

- Proposed Access Roads
- Proposed Silt Fence
- Windsor upland review area
- Proposed Removal Areas
- Site Brook Stream Channel
- Upland Island
- PFO
- PSS/PEM

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Figure 1.1
Area 1 - Proposed Impacts

Site Brook Restoration Plan
CE Windsor Site
Windsor, Connecticut
MACTEC, Inc.

Prepared/Date: CHL 08/18/09 | Checked/Date: IAB 08/18/09

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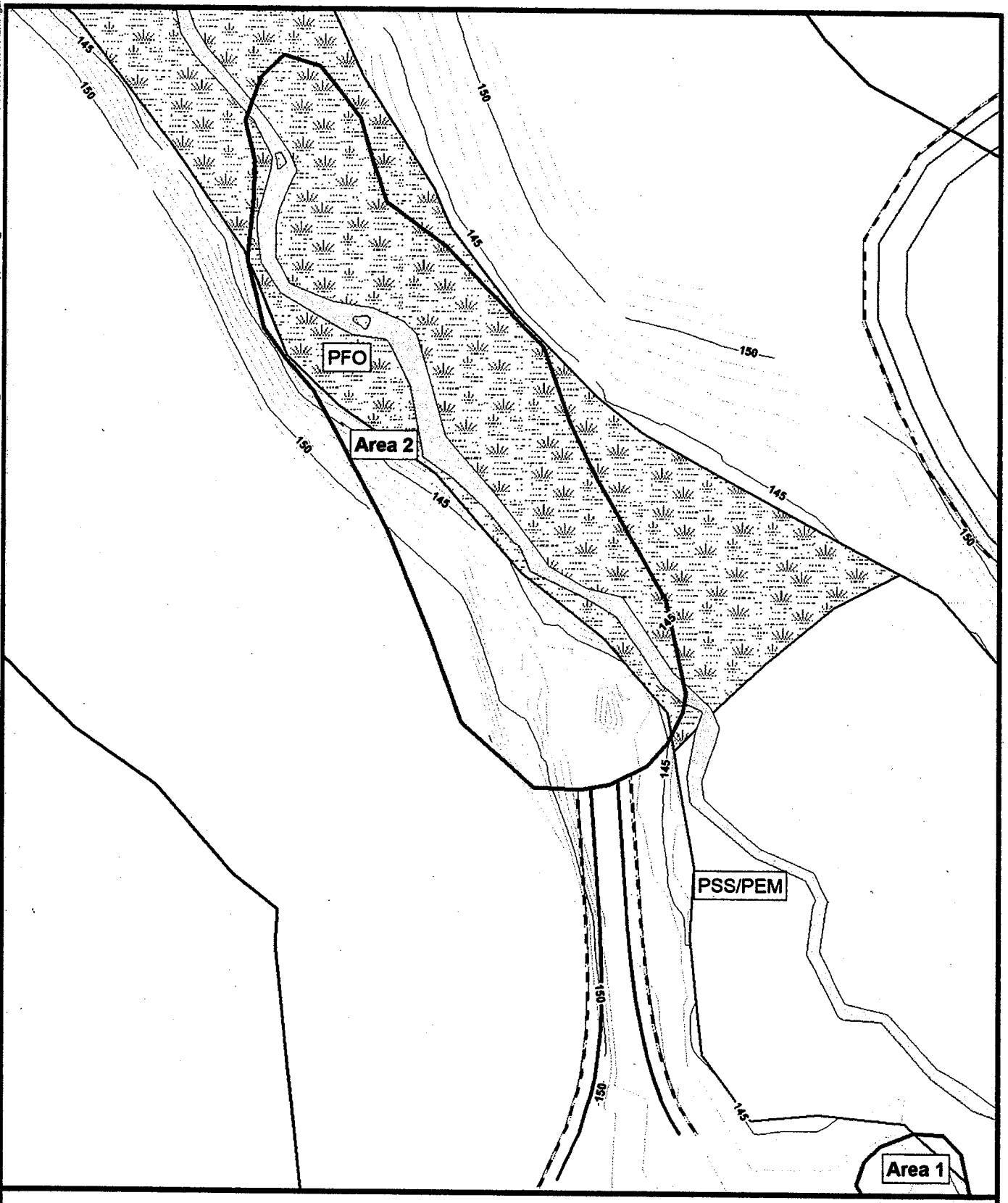

Legend

- Proposed Access Roads
- Proposed Silt Fence
- Windsor upland review area
- Proposed Removal Areas
- Site Brook Stream Channel
- Upland Island
- PFO
- PSS/PEM

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Figure 1.2
Area 2 - Proposed Impacts

Site Brook Restoration Plan
CE Windsor Site
Windsor, Connecticut
MACTEC, Inc.

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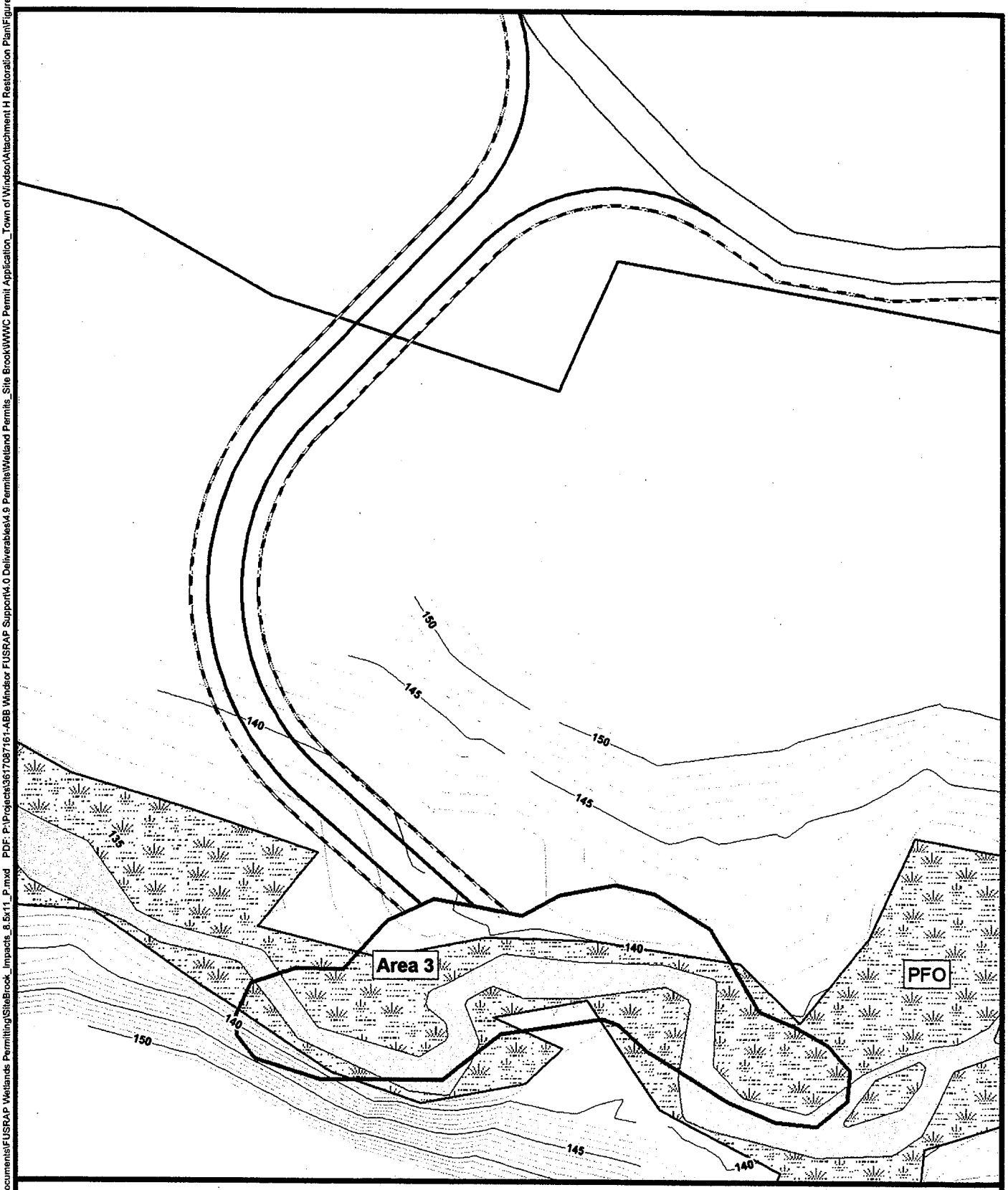

Legend

- Proposed Access Roads
- Proposed Silt Fence
- Windsor upland review area
- Proposed Removal Areas
- Site Brook Stream Channel
- Upland Island
- PFO
- PSS/PEM

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0 20 40 Feet

Prepared/Date: CHL 08/18/09 | Checked/Date: IAB 08/18/09

Figure 1.3
Area 3 - Proposed Impacts

Site Brook Restoration Plan
CE Windsor Site
Windsor, Connecticut
MACTEC, Inc.

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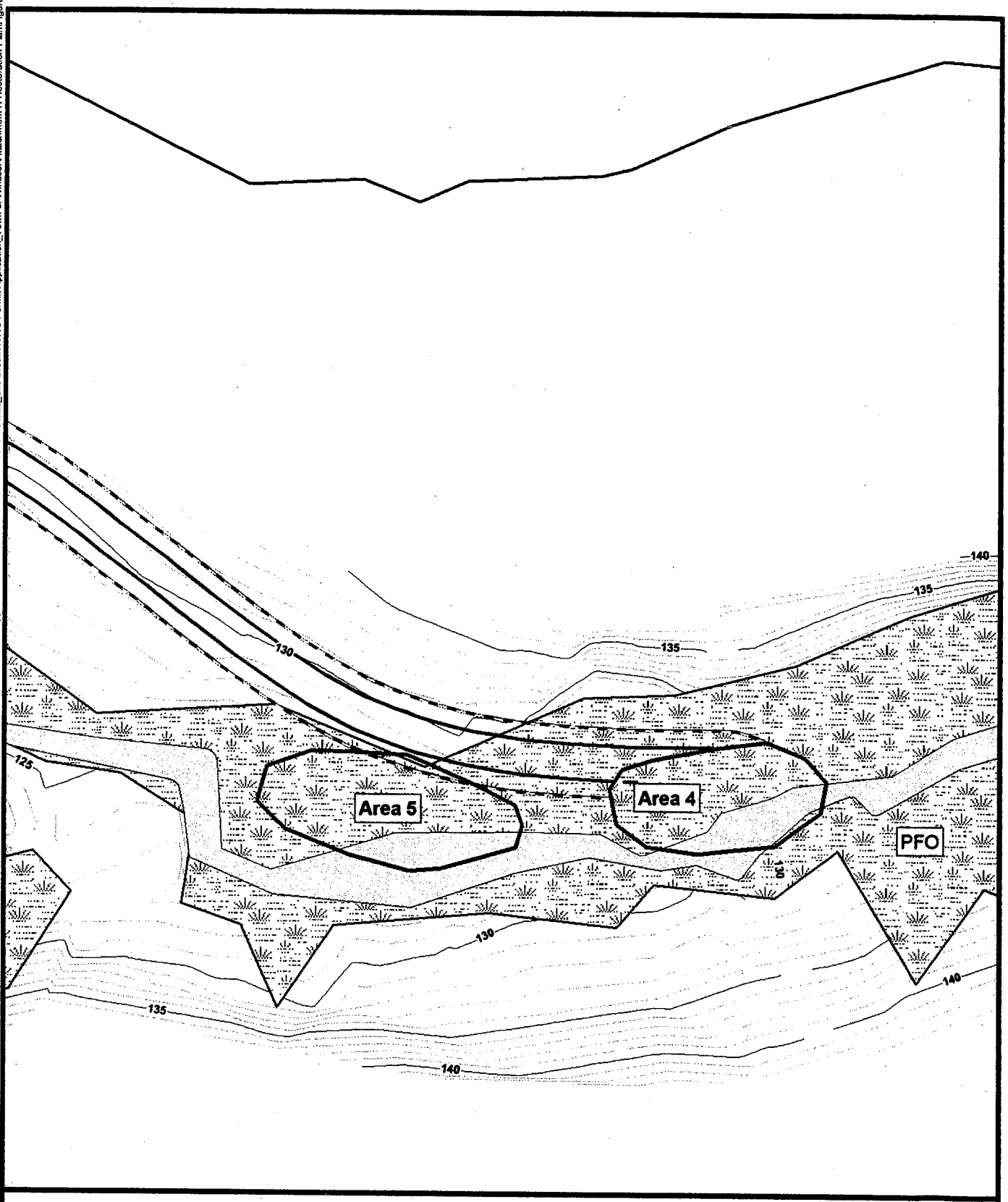

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- Proposed Access Roads
- Proposed Silt Fence
- Windsor upland review area
- Proposed Removal Areas
- Site Brook Stream Channel
- Upland Island
- PFO
- PSS/PEM

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Figure 1.4
Area 4 and 5 - Proposed Impacts

Site Brook Restoration Plan
CE Windsor Site
Windsor, Connecticut
MACTEC, Inc.

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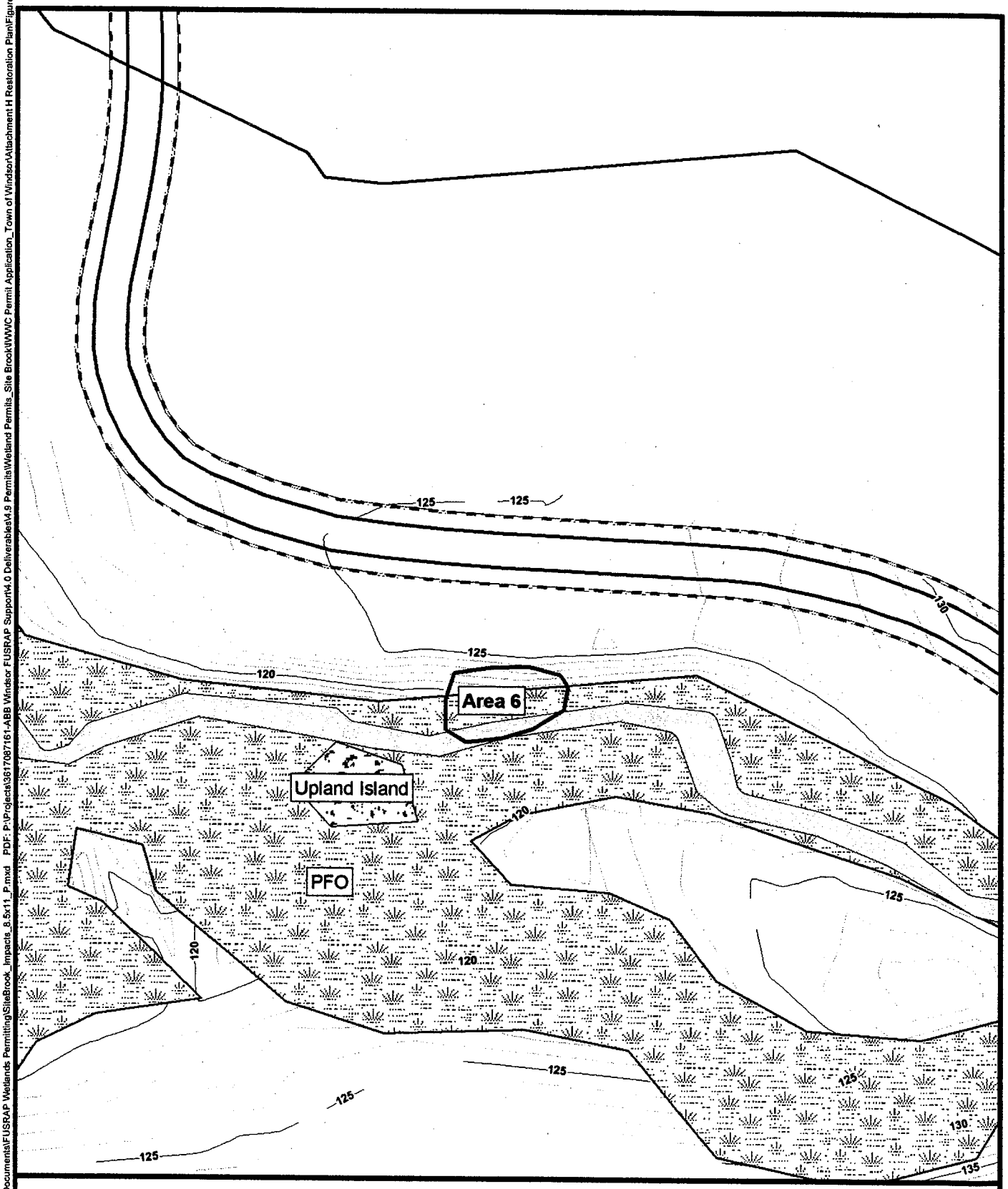

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- Proposed Access Roads
- Proposed Silt Fence
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- Proposed Removal Areas
- Site Brook Stream Channel
- Upland Island
- PFO
- PSS/PEM

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Prepared/Date: CHL 08/18/09 | Checked/Date: IAB 08/18/09

Figure 1.5
Area 6 - Proposed Impacts

Site Brook Restoration Plan
CE Windsor Site
Windsor, Connecticut
MACTEC, Inc.

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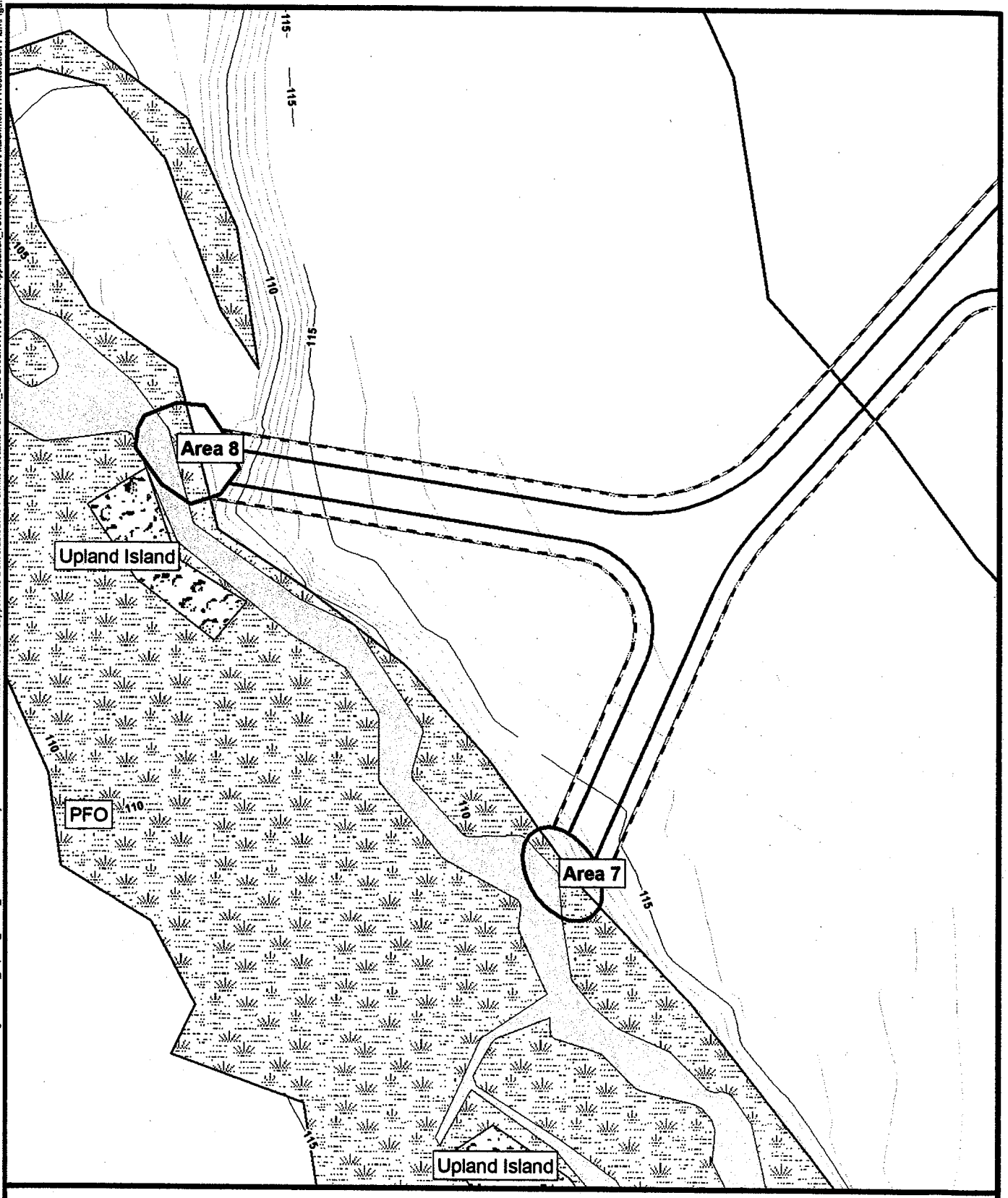

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- Upland Island
- PFO
- PSS/PEM

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Figure 1.6
Area 7 and 8 - Proposed Impacts

Site Brook Restoration Plan
CE Windsor Site
Windsor, Connecticut
MACTEC, Inc.

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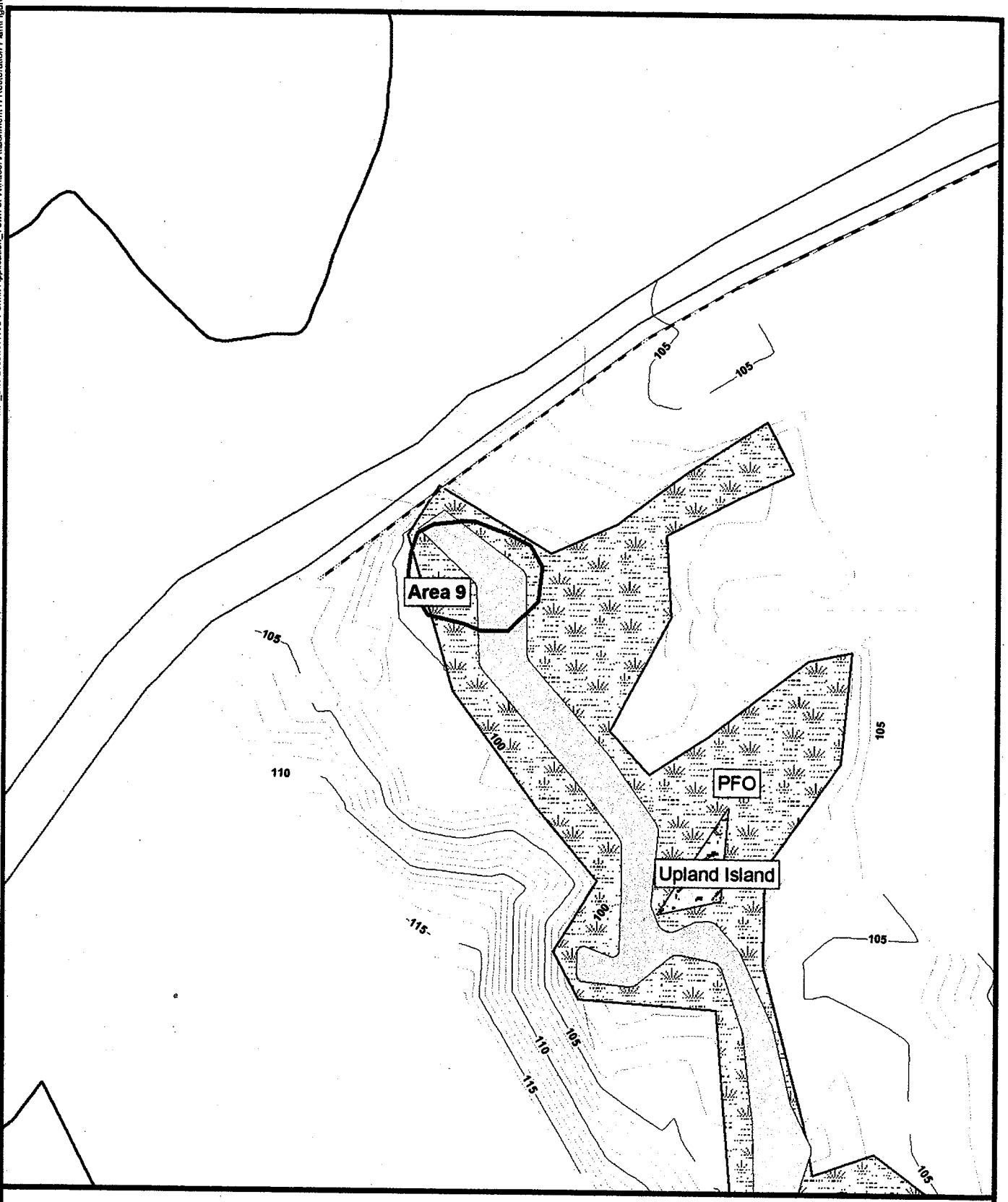

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- Windsor upland review area
- Proposed Removal Areas
- Site Brook Stream Channel
- Upland Island
- PFO
- PSS/PEM

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Figure 1.7
Area 9 - Proposed Impacts

Site Brook Restoration Plan
CE Windsor Site
Windsor, Connecticut
MACTEC, Inc.

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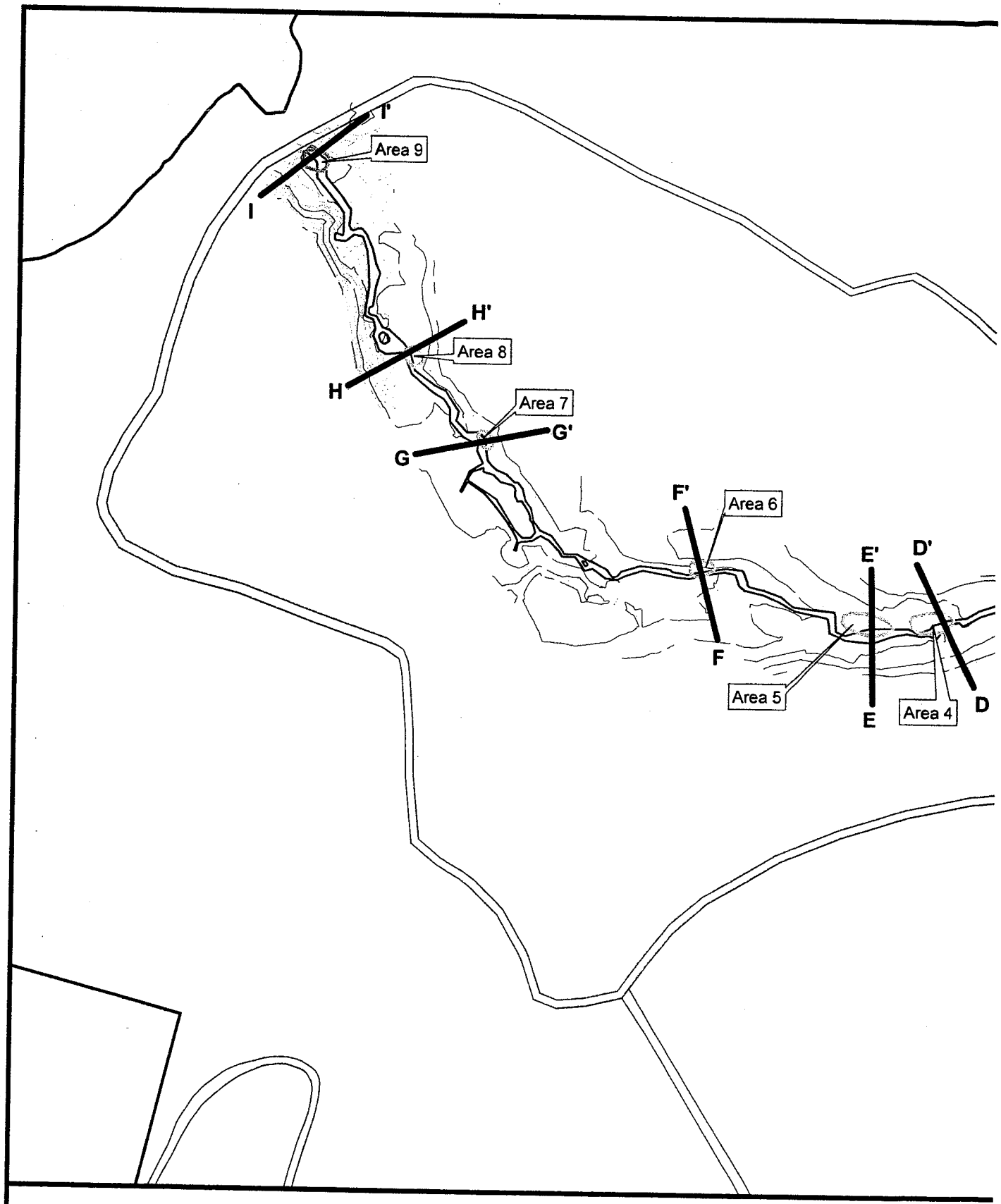

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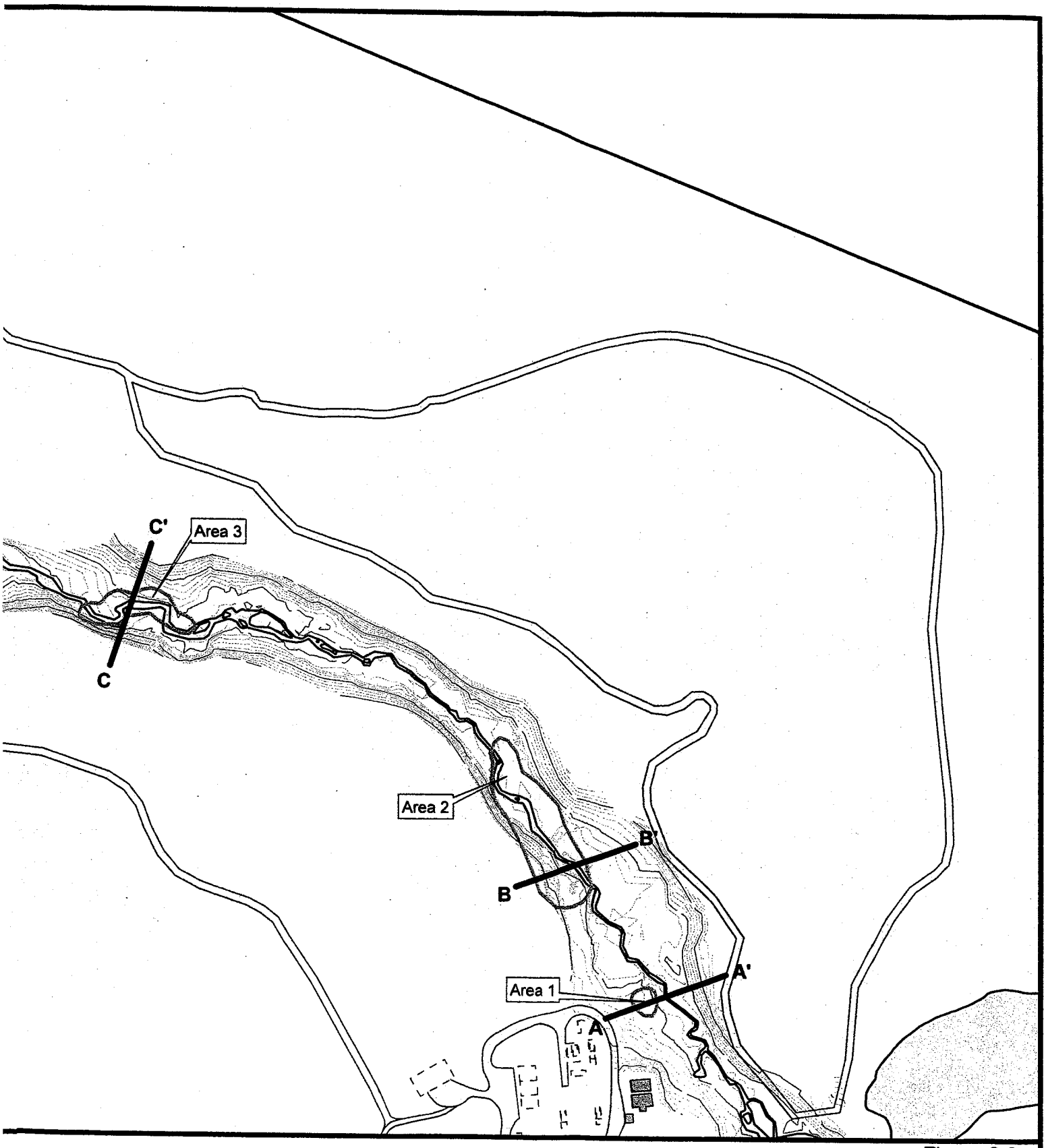

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Removal Areas

Stream Channel

Figure 2.0
Site Brook:
Proposed Removal Areas
and Cross Section Locations
Site Brook Restoration Plan
CE Windsor Site
Windsor, Connecticut
MACTEC, Inc.

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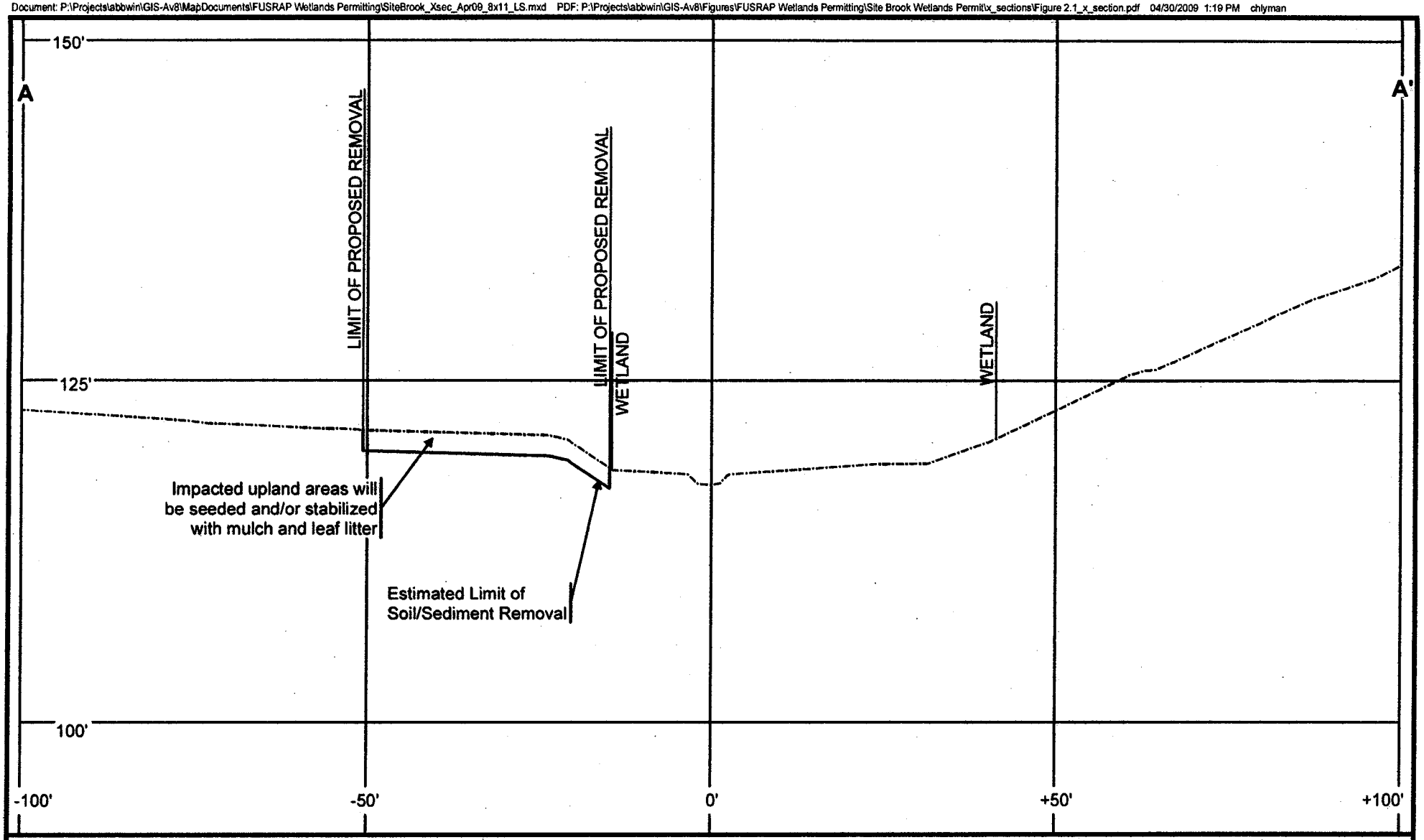

NOTE: Vertical to Horizontal Exaggeration 2:1

Legend

- Site Brook
- Backfill with Sand, Gravel and Cobble
- Backfill with Blended Wetland Soil
- Backfill with Sandy Loam to Loamy Sand with 6" of Topsoil

Figure 2.1
Site Brook Cross Section A-A'

Site Brook Restoration Plan
CE Windsor Site
Windsor, Connecticut
MACTEC, Inc.

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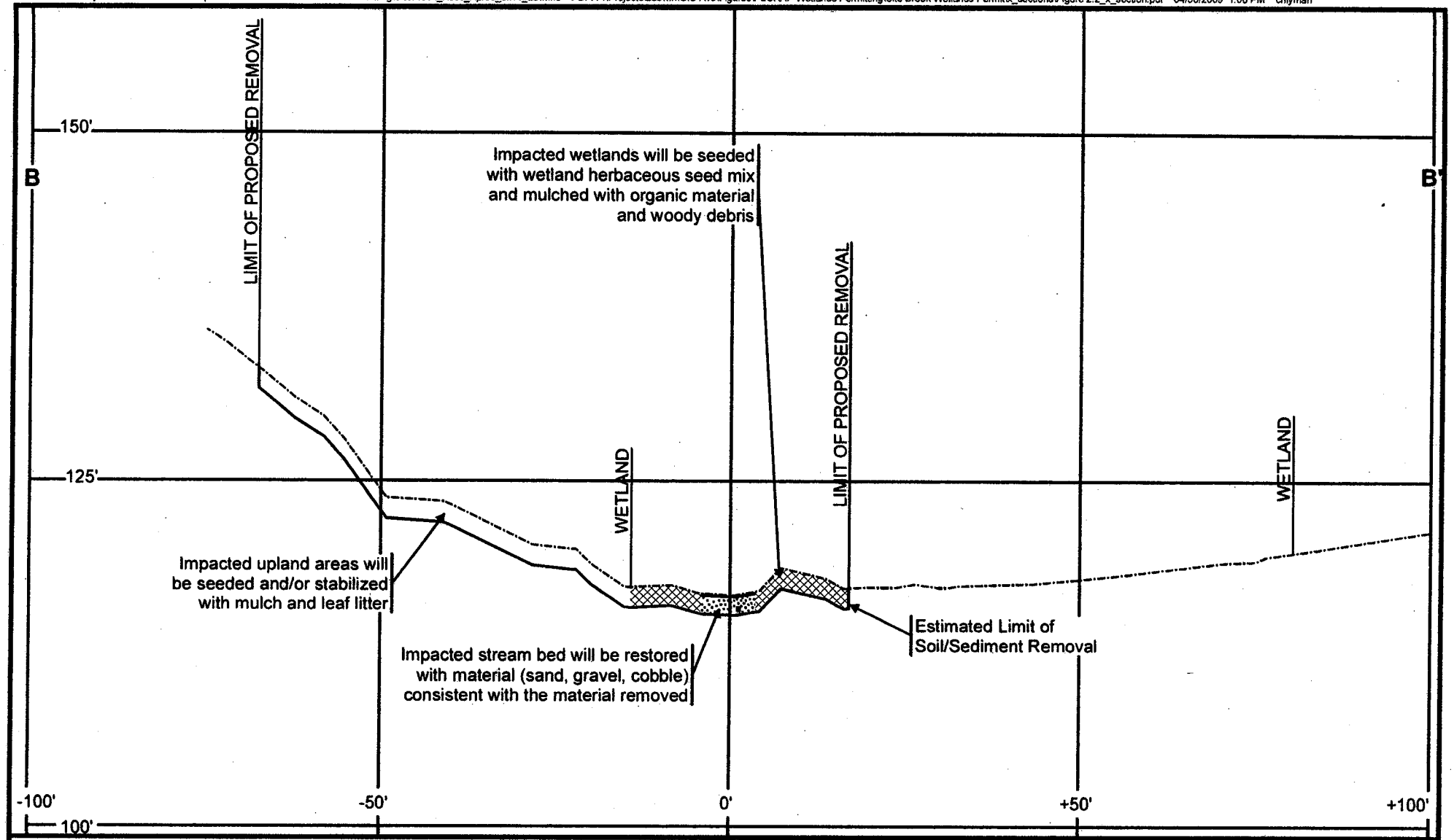

NOTE: Vertical to Horizontal Exaggeration 2:1

Legend

- Site Brook
- Backfill with Sand, Gravel and Cobble
- Backfill with Blended Wetland Soil
- Backfill with Sandy Loam to Loamy Sand with 6" of Topsoil

Figure 2.2
Site Brook Cross Section B-B'

Site Brook Restoration Plan
CE Windsor Site
Windsor, Connecticut
MACTEC, Inc.

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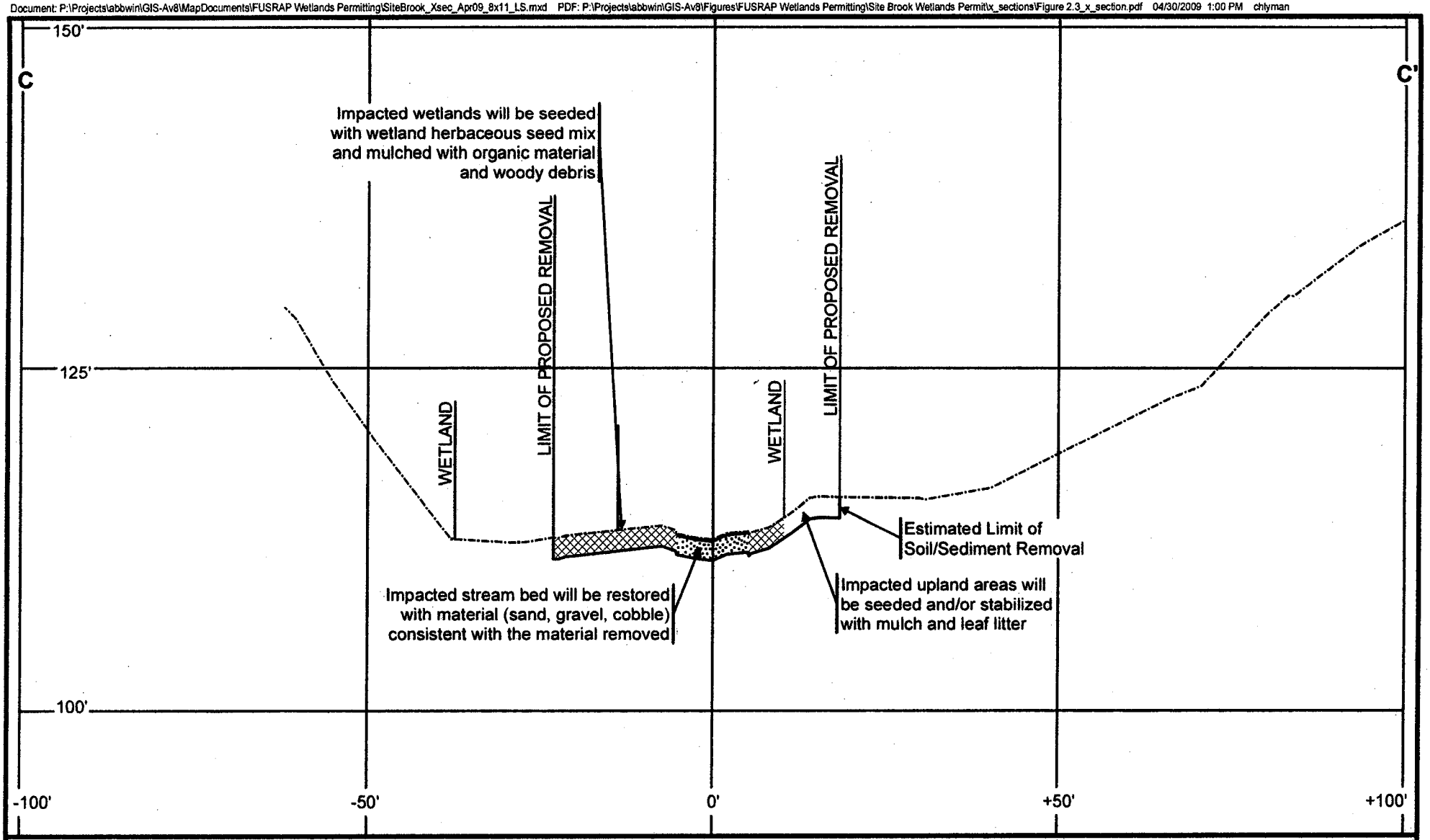

NOTE: Vertical to Horizontal Exaggeration 2:1

Legend

- Site Brook
- Backfill with Sand, Gravel and Cobble
- Backfill with Blended Wetland Soil
- Backfill with Sandy Loam to Loamy Sand with 6" of Topsoil

Figure 2.3
Site Brook Cross Section C-C'

Site Brook Restoration Plan
CE Windsor Site
Windsor, Connecticut
MACTEC, Inc.

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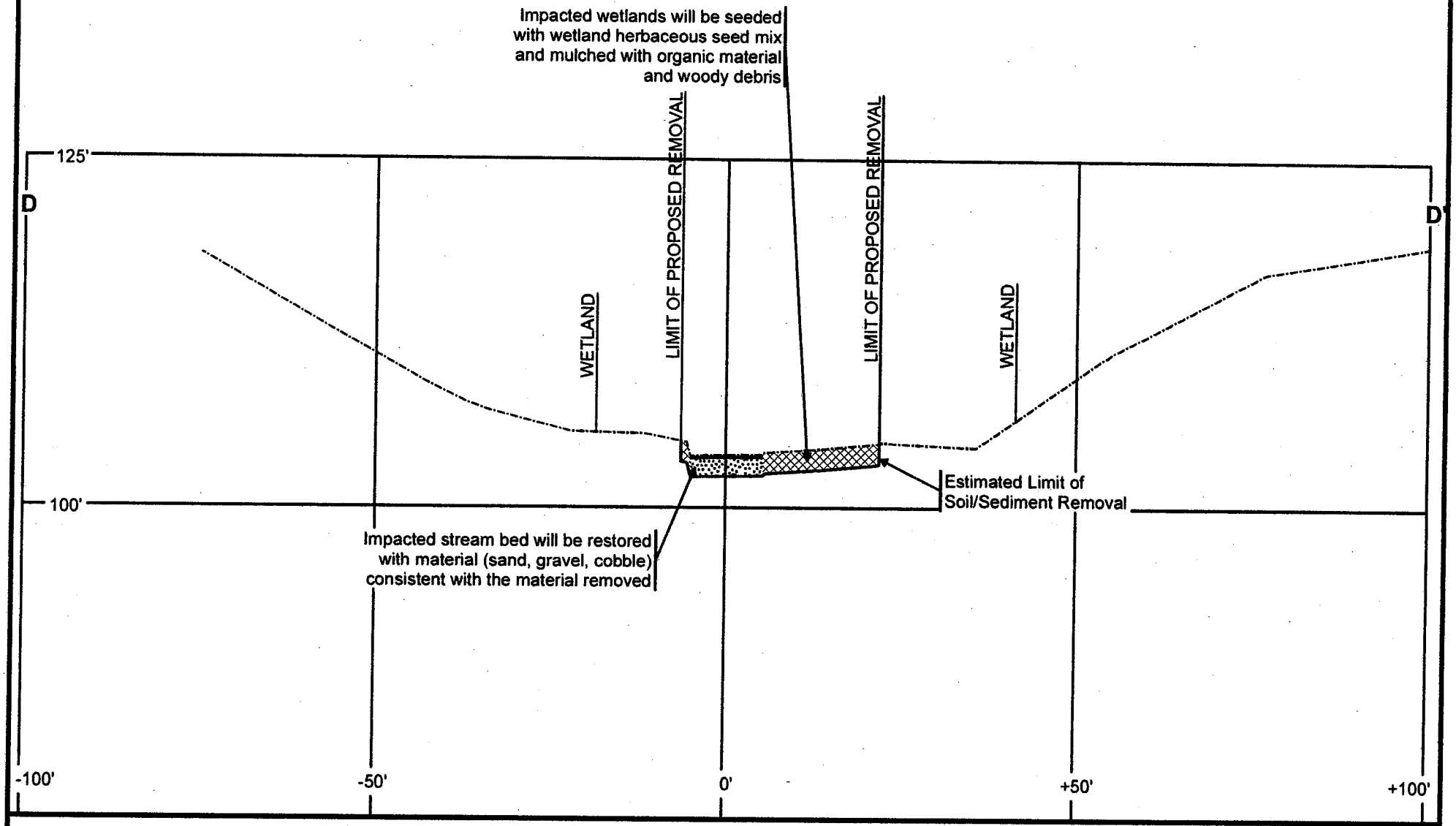


NOTE: Vertical to Horizontal Exaggeration 2:1

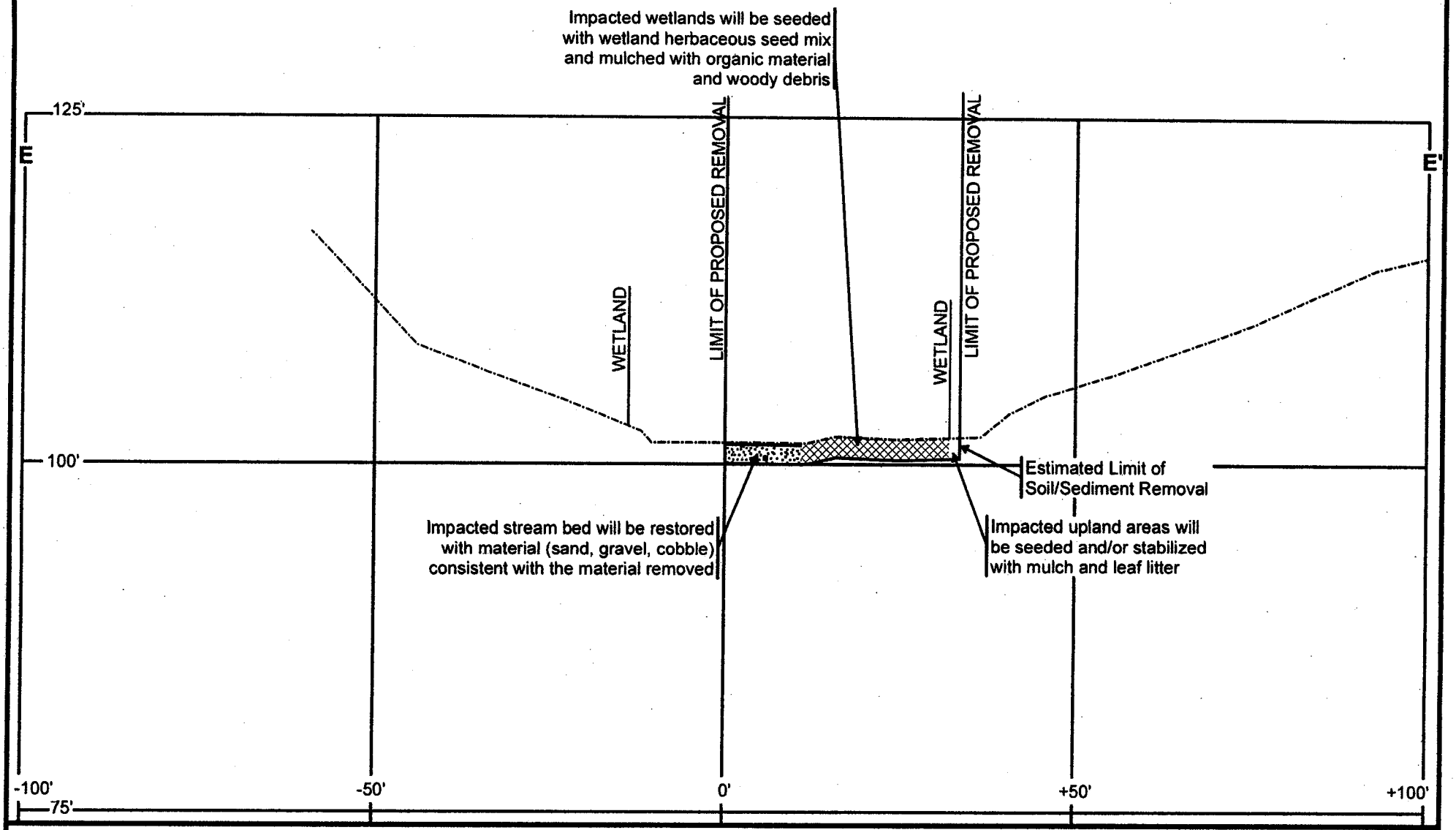
Legend

- Site Brook
- Backfill with Sand, Gravel and Cobble
- Backfill with Blended Wetland Soil
- Backfill with Sandy Loam to Loamy Sand with 6" of Topsoil

Figure 2.4
Site Brook Cross Section D-D'

Site Brook Restoration Plan
CE Windsor Site
Windsor, Connecticut
MACTEC, Inc.

Prepared/Date: CHL 04/30/09	Checked/Date: IAB 04/30/09



NOTE: Vertical to Horizontal Exaggeration 2:1

Legend

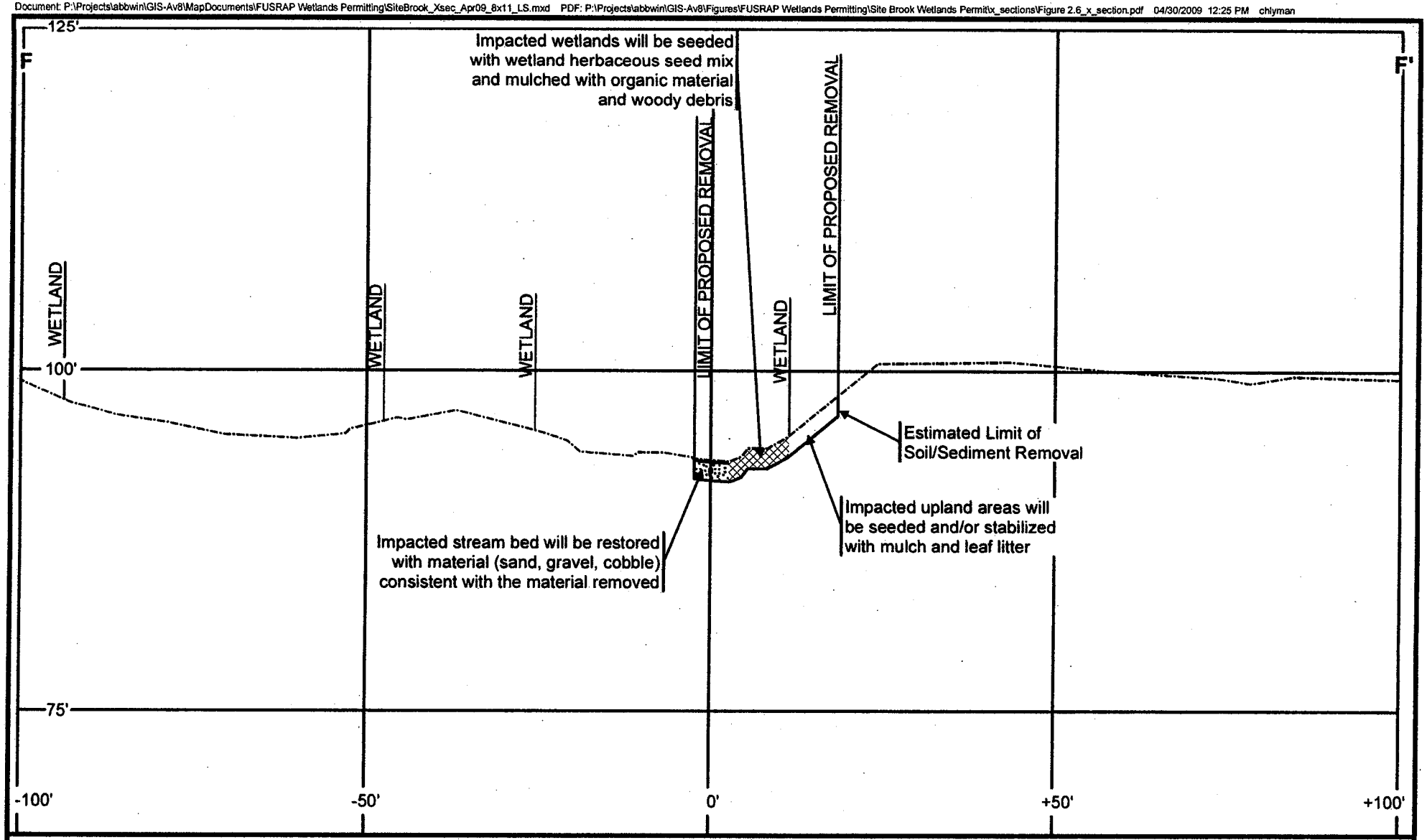
- Site Brook
- Backfill with Sand, Gravel and Cobble
- Backfill with Blended Wetland Soil
- Backfill with Sandy Loam to Loamy Sand with 6" of Topsoil

Figure 2.5
Site Brook Cross Section E-E'

Site Brook Restoration Plan
CE Windsor Site
Windsor, Connecticut
MACTEC, Inc.

Prepared/Date: CHL 04/30/09	Checked/Date: IAB 04/30/09

Document: P:\Projects\abbwin\GIS-Av8\MapDocuments\FUSRAP Wetlands Permitting\SiteBrook_Xsec_Apr09_8x11_LS.mxd PDF: P:\Projects\abbwin\GIS-Av8\Figures\FUSRAP Wetlands Permitting\Site Brook Wetlands Permit\x_sections\Figure 2.6_x_section.pdf 04/30/2009 12:25 PM chlyman



NOTE: Vertical to Horizontal Exaggeration 2:1

Legend

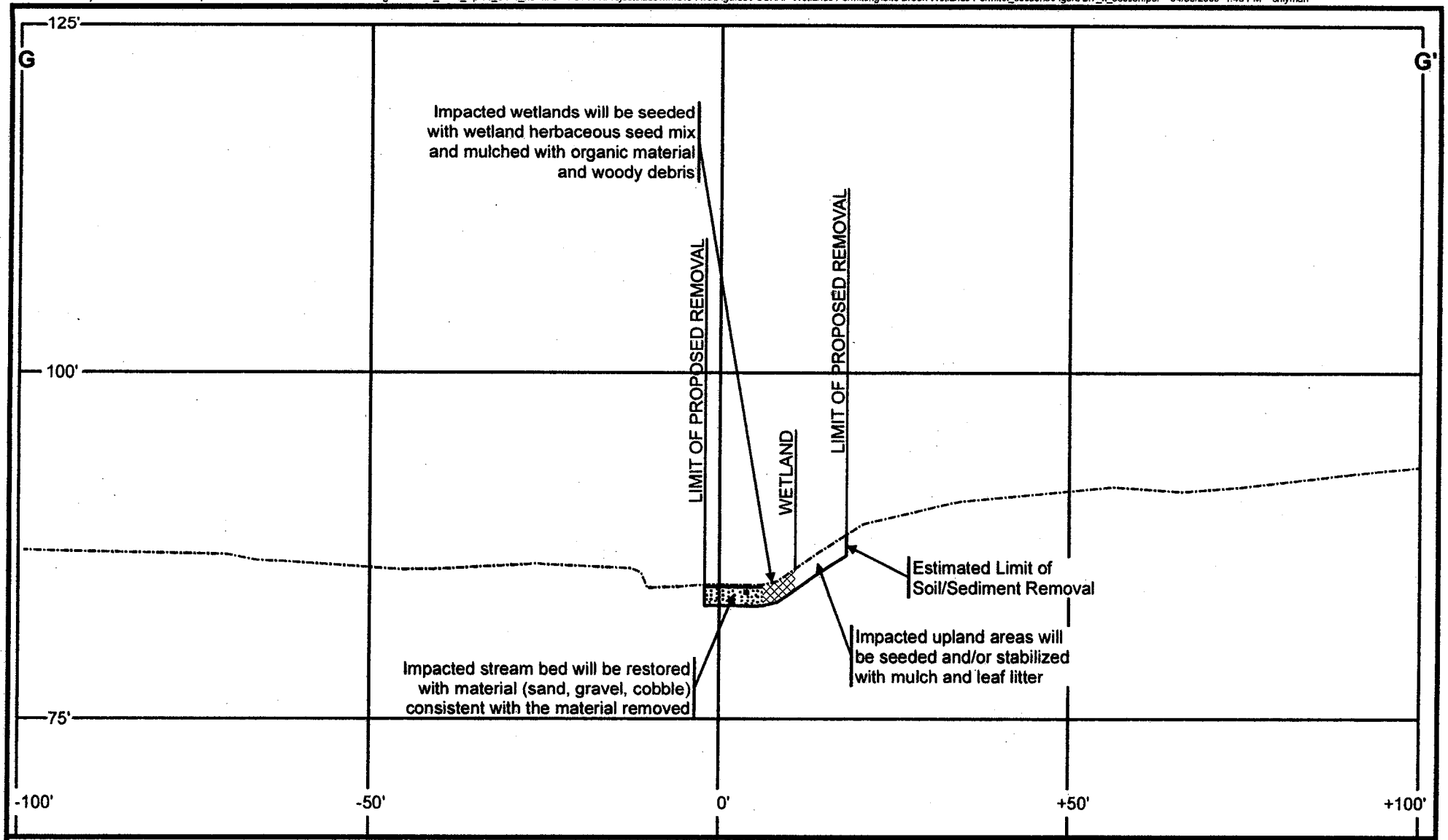
- Site Brook
- Backfill with Sand, Gravel and Cobble
- Backfill with Blended Wetland Soil
- Backfill with Sandy Loam to Loamy Sand with 6" of Topsoil

Figure 2.6
Site Brook Cross Section F-F'

Site Brook Restoration Plan
CE Windsor Site
Windsor, Connecticut
MACTEC, Inc.

Prepared/Date: CHL 04/30/09	Checked/Date: IAB 04/30/09

Document: P:\Projects\abbwin\GIS-Av8\MapDocuments\FUSRAP Wetlands Permitting\SiteBrook_Xsec_Apr09_8x11_LS.mxd PDF: P:\Projects\abbwin\GIS-Av8\Figures\FUSRAP Wetlands Permitting\Site Brook Wetlands Permit\x_sections\Figure 2.7_x_section.pdf 04/30/2009 1:40 PM chlyman



NOTE: Vertical to Horizontal Exaggeration 2:1

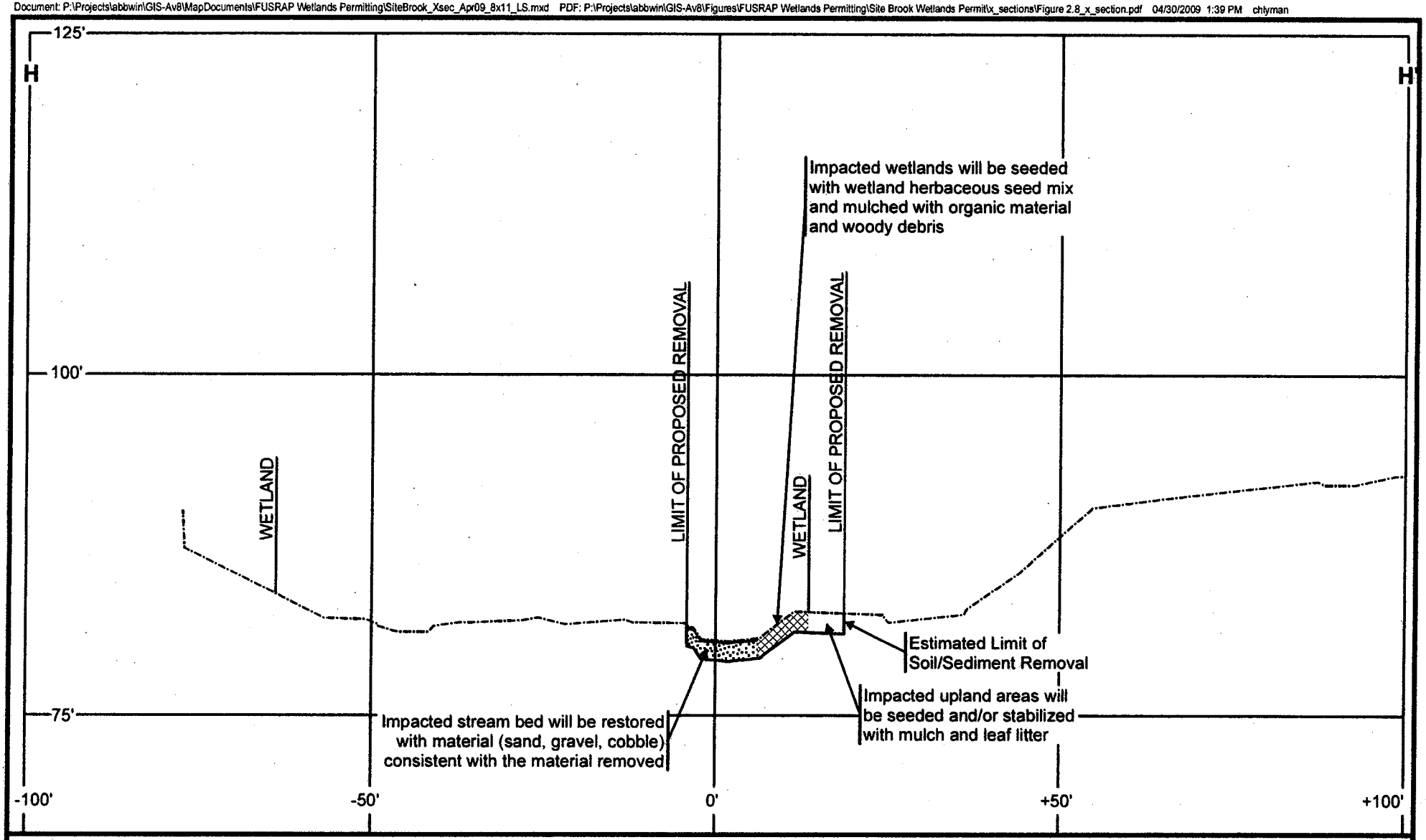
Legend

- Site Brook
- Backfill with Sand, Gravel and Cobble
- Backfill with Blended Wetland Soil
- Backfill with Sandy Loam to Loamy Sand with 6" of Topsoil

Figure 2.7
Site Brook Cross Section G-G'

Site Brook Restoration Plan
CE Windsor Site
Windsor, Connecticut
MACTEC, Inc.

Prepared/Date: CHL 04/30/09	Checked/Date: IAB 04/30/09



NOTE: Vertical to Horizontal Exaggeration 2:1

Legend

- Site Brook
- Backfill with Sand, Gravel and Cobble
- Backfill with Blended Wetland Soil
- Backfill with Sandy Loam to Loamy Sand with 6" of Topsoil

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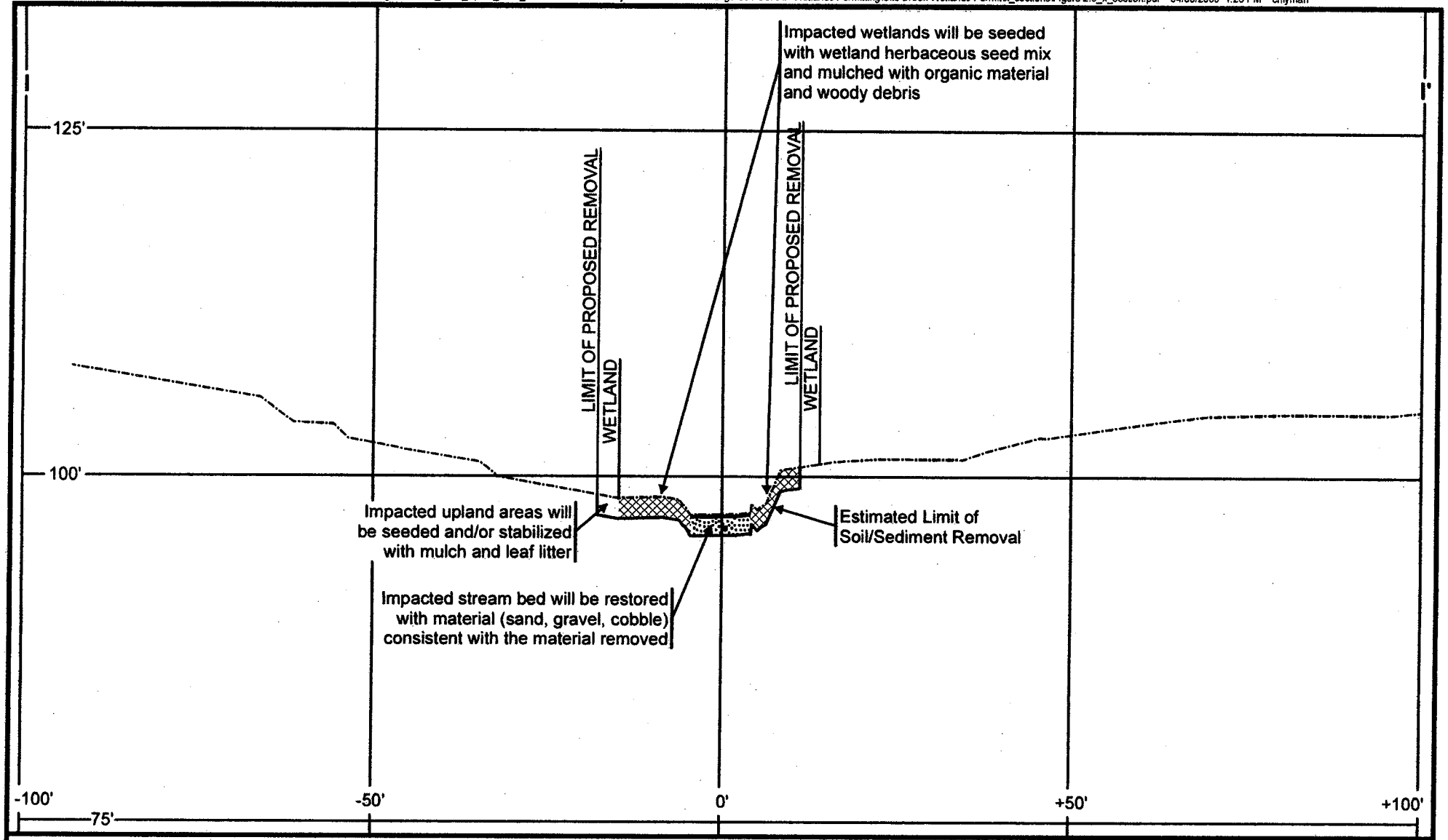
Figure 2.8
Site Brook Cross Section H-H'

Site Brook Restoration Plan
CE Windsor Site
Windsor, Connecticut
MACTEC, Inc.



NOTE: Vertical to Horizontal Exaggeration 2:1

Legend

- Site Brook
- Backfill with Sand, Gravel and Cobble
- Backfill with Blended Wetland Soil
- Backfill with Sandy Loam to Loamy Sand with 6" of Topsoil

Figure 2.9
Site Brook Cross Section I-I'

Site Brook Restoration Plan
CE Windsor Site
Windsor, Connecticut
MACTEC, Inc.

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