Exhibit A

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION

MEMO

To: Sara Radacsi, Environmental Analyst 3
Bureau of Water Protection and Land Reuse
Inland Water Resources Division

Date: December 3, 2007

From: Mark Lewis, Environmental Analyst 3 MRL
Remediation Division/ Eastern District

RE: Diversion Application for Plainfield Renewable Energy

Water Diversion Application # DIV-200603081
Drainage Basin #3700, Quinebaug River

The Remediation Division has conducted a preliminary review of diversion application # DIV-200603081 to withdraw a maximum of 0.893 mgd of surface water from the Quinebaug River in Canterbury. The withdrawal would be made from land owned by Mann- Birch, LLC, mapped in the Canterbury Tax Assessor's office as Map 62, Lot 12B. Based on the preliminary review, it appears that the effect of the proposed withdrawal on the Division's program interests is negligible, and the Remediation Division plans no further review.

I reviewed the report entitled "Application for Water Diversion Permit for a 37.5 MW Biomass Wood Gasification Power Plant on Behalf of Plainfield Renewable Energy LLC Revised December 29, 2006". Anchor Engineering Services, Inc. of Glastonbury, CT, prepared the report. I also visited the site with you and other staff of the Inland Water Resources Division on February 8, 2007. Plainfield First Selectman Kevin Cunningham and representatives of the applicant also attended the site visit.

The proposed withdrawal location is downstream of the Yaworski Lagoon Federal Superfund site, and the Yaworski Landfill State Superfund site. A groundwater plume of chlorinated solvents originates at the Yaworski Lagoon site, and flows toward the Quinebaug River. Most of this plume flows into the river, but a portion flows underneath the river, so chlorinated solvents have been detected in monitoring wells located on the west side of the river across from the lagoon site. To ensure that contaminated ground water is not used for drinking purposes, DEP and the US EPA have been working for several years with the affected landowners to record on the land records restrictions that would prohibit withdrawal of ground water for purposes other than groundwater monitoring.

The properties affected by the Yaworski Lagoon plume include the Yaworski, Wildowski, McLaughlin and Waskowitz (Ed's Garage properties). All of these except the Yaworski property are located on the west side of the river. DEP and EPA are not attempting to record a restriction on the property where the proposed withdrawal would be located. The proposed withdrawal is located more than 7,000 feet downstream along the course of the river from the southern end of the lagoon property, and more than 2,900 feet downstream of the southern end of the landfill. The straight-line distance between the southern end of the lagoon and the proposed withdrawal is greater than 2,400 feet, measured across the meanders in the river, and the straight- line distance from the southern toe of the landfill to the proposed withdrawal is greater than 800 feet. Considering this, the Remediation Division is satisfied that the proposed withdrawal of surface water from the Quinebaug River will not affect the plume emanating from the Yaworski Lagoon or the Yaworski Landfill.

The Remediation Division does wish to note, however, that the applicant proposes to return to the Quinebaug River the cooling water that is not lost at the power plant as steam. This proposed discharge is not within the Remediation Division's purview. However, in addition to discharge permitting requirements, the DEP Inland Fisheries Division may wish to examine the thermal and chemical effects of the proposed discharge upon fish in the river.

The proposed biomass gasification plant is located on a separate parcel of land on Millbrook Road in Plainfield. The Plainfield parcel is also known as the Gallup's Quarry Federal Superfund site. This property was used for illegal disposal of hazardous waste in 1978. The majority of the waste was removed from the site by DEP in 1978. A plume of chlorinated solvents extends in a northwesterly direction from this site in the direction of Mill Brook. Under the remedy selected by EPA for the site, this plume is being remediated by monitored natural attenuation together with recording of environmental land use restrictions (ELURs) on a portion of the Gallup's Quarry site and of several downgradient properties. The ELUR on the contaminated portion of the Gallup's Quarry site prohibits disturbance of soil or withdrawal of groundwater. The ELURs on the downgradient properties prohibit withdrawal of groundwater. DEP also entered into a covenant- not- to sue with Plainfield Renewable Energy, LLC in August 2006 pursuant to Section 22a-133aa of the Connecticut General Statutes.

Please let me know if you have any questions.

Exhibit B

Interrogatory CSC-5

Plainfield Renewable Energy LLC
Petition 784

Witness: Scott Atkin

Q-CSC-5: Describe the water intake facilities including diameter of piping at intake point, number, location, and size of the pump(s) and pump house, and safeguards for humans, fisheries and wildlife.

A-CSC-5: The proposed water intake structure is cylindrical in shape. It is expected to be approximately less than 13-inches in diameter and 40-inches long. The main axis of this cylindrical structure will be parallel to the direction of flow and approximately 8 feet deep. Only one water intake structure is required to provide the quantity of water needed for this project.

The final design of the pumps will be performed by the EPC contractor. It is anticipated that two 75-hp pumps will be adequate to supply the necessary water for the power plant and that a third pump may be installed to provide system redundancy.

The pump house for the intake structure will be located on land near the proposed intake structure. The inlet location for this project has changed due to encumbrances on the originally-proposed parcel. The new location is shown on the figures in Exhibit CSC-5-1. These figures replace the corresponding exhibits in the Petition. The pump house will contain the pumps, an air compressor for cleaning off the intake structure, spare parts, and a back-up diesel generator. The approximate size of this structure is expected to be less than 650 square feet.

Concrete bollards will be installed upstream of the intake structure to limit the potential for damage due to floating or submerged debris. Permanent navigational markers will be utilized to mark the location of the intake structure to safeguard boaters and swimmers. The intake structures are not anticipated to be a safety hazard for land-based wildlife. The intake structure is designed specifically to protect fish. A cylindrical wedge-wire screen has been specified for the intake structure. This screen has a slot opening of 0.125-inch to prevent fish entrainment and a maximum inlet velocity of less than 0.4-feet per second to prevent fish impingement. At inlet velocities of 0.5 fps or less, juvenile fish can swim up to the intake screen and safely swim away without getting stuck to the screen openings.

Exhibit C

MEMORANDUM OF UNDERSTANDING

THIS AGREEMENT, dated this 22nd day of March, 2006, by and between **ASPINOOK, LLC**, ("Owner") of Canterbury, Connecticut, and **MAN-BURCH, LLC** ("Buyer") of Norwich, Connecticut,

WITNESSETH:

WHEREAS, the Owner is the owner of land known as Lot #12 B, Packer Road, Canterbury, Connecticut more particularly bounded and described on Schedule A attached hereto and made a part hereof by reference (the "Premises"); and

WHEREAS, the Owner has placed the Premises for sale; and

WHEREAS, the Buyer is interested in purchasing the Premises from the Owner;

NOW THEREFORE, in consideration of the mutual promises and conditions contained herein, the parties hereto stipulate and agree as follows:

1. The Owner has informed the Buyer that the Premises are located on Packer Road, Canterbury, Connecticut, and that the Premises are located at or near a Waste Management recycling facility causing heavy truck traffic on Packer Road and further that the Premises are located in close proximity to property known as the Yaworski Landfill, a federally declared Super Fund site, and further that the Premises are located in close proximity to the Yaworski transfer station and activities associated therewith.

BROWN JACOBSON P.C.
ATTORNEYS AT LAW.
52 COURTHOUSE SQUARE P.O. BOX 391 NORWICH, CONNECTICUT 06360-0391
JURIS # 06537 (860) 889-3321

2. The Buyer herein stipulates and agrees that it is fully aware that the above described facilities will cause heavy truck traffic on Packer Road in close proximity to the Premises and further the Buyer has been advised by Owner to research the Super Fund and landfill information at the Canterbury Town Library, and by the acceptance of a deed from the Owner transferring the Premises to the Buyer, the Buyer does hereby stipulate and agree that it has been fully informed of the presence of the facilities in close proximity to the Premises and the heavy truck traffic on Packer Road generated by said facilities and the Buyer by virtue of the purchase of the Premises hereby acknowledges that it has full knowledge and factual information of the conditions on Packer Road as described herein, accepting the presence of such facilities in close proximity to the Premises and the truck traffic existing on Packer Road.

3. The Buyer hereby stipulates and agrees that this Memorandum of Understanding shall be recorded in the Land Records of the Town of Canterbury and that any successor in title or purchaser of the Premises from the Buyer shall be subject to this Memorandum of Understanding this day made.

4. This Agreement shall be binding upon the successors and assigns of the Buyer and shall run with the land.

BROWN JACOBSON P.C.
ATTORNEYS AT LAW
52 COURTHOUSE SQUARE P.O. BOX 391 NORWICH, CONNECTICUT 06360-0391
JURIS # 06937 (860) 889-3351

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals the day and year within above written.

Signed, Sealed and Delivered
in the presence of:

Lynn J. Caffrey

Diane M. Grise

Marjorie Shuck

ASPINOOK, LLC

By ____________________
Denis Yaworski, a Member

MAN-BURCH, LLC

By ____________________ Member

STATE OF CONNECTICUT
ss. Norwich
COUNTY OF NEW LONDON

March 22, 2006

Personally appeared DENIS YAWORSKI, a Member of ASPINOOK, LLC, Signer and Sealer of the foregoing instrument and acknowledged same to be his free act and deed and the free act and deed of Aspinook, LLC, before me,

____
Diane M. Grise
~~Commissioner of the Superior Court~~
Notary Public
My commission expires: ________

#176850

STATE OF CONNECTICUT :
: ss. Norwich March 22, 2006
COUNTY OF NEW LONDON:

Personally appeared Brian H. Burchman, a Member of MAN-BURCH LLC, Signer and Sealer of the foregoing instrument and acknowledged same to be his free act and deed and the free act and deed of MAN-BURCH, LLC, before me,

Mark E. Block
Commissioner of the Superior Court
Notary Public
My commission expires: _____

BROWN JACOBSON P.C.
ATTORNEYS AT LAW
22 COURTHOUSE SQUARE P.O. BOX 351 NORWICH, CONNECTICUT 06360-0351
JURIS # 06827 (860) 889-3361

Exhibit D

DEPARTMENT OF THE ARMY
NEW ENGLAND DISTRICT, CORPS OF ENGINEERS
696 VIRGINIA ROAD
CONCORD, MASSACHUSETTS 01742-2751

REPLY TO:
ATTENTION OF:

November 30, 2007

Regulatory Division
CENAE-R-PEB
File Number NAE-2006-4282

Daniel Donovan, Vice President
Plainfield Renewable Energy LLC
20 Marshall Street, Suite 300
Norwalk, CT 06854

Dear Mr. Donovan:

This refers to a permit application you originally submitted to the Corps to temporarily disturb 0.07 acre of river bottom for installation of a water intake (6" diameter) and discharge pipe (4" diameter) and to temporarily disturb 0.008 acre of inland wetlands for installation of same, contiguous with the Quinebaug River at Packer Road in Canterbury, Connecticut. The purpose of the proposed work is to provide 0.556 million gallons per day of non-contact cooling water for a proposed gasification power plant in the nearby town of Plainfield, Connecticut.

Based upon project revision dated October 30, 2007 that eliminates all discharges of fill in wetlands and waters, we have determined that a Department of the Army permit is not required for your proposed project. Our determination is based on the information described in your application entitled "ENVIRONMENTAL IMPACTS" dated "November 8, 2007" and on the enclosed plans entitled "WATER INTAKE DISCHARGE LOCATION, PREPARED FOR PLAINFIELD RENEWABLE ENERGY, LLC, PUMP STATION SITE PLAN" on 5 sheets, and dated "revised through November 8, 2007."

Our regulatory jurisdiction encompasses all work in or affecting navigable waters of the United States under Section 10 of the Rivers and Harbors Act of 1899 and the discharge of dredged or fill material into all waters of the United States, including adjacent wetlands, as well as discharges associated with excavation and grading within those waters, under Section 404 of the Clean Water Act. Since your proposal does not include any of the aforementioned activities, a Department of the Army permit is not required.

Our Corps of Engineers permit process does not supersede any other agency's jurisdiction. Therefore, if other Federal, State, and/or local agencies have jurisdiction over your proposed activity, you must receive all other applicable permits before you can begin work. Please note

that performing work within our jurisdiction without a Corps of Engineers permit can result in prosecution by the U.S. Government.

If you have any questions regarding this letter, please contact Ms. Cori M. Rose at (978) 318-8306.

Sincerely,

Diane M. Ray
Acting Chief, Permits & Enforcement Branch
Regulatory Division

Attachments

Copies Furnished:

CT DEP
ATTN: Bob Gilmore
Bureau of Water Management
Inland Water Resources Division
79 Elm Street
Hartford, CT 06106-5127

US FWS
RI Field Office
ATTN: Greg Mannesto
50 Bend Road
Charlestown, RI 02813

US EPA New England, Region I
Office of Ecosystem Protection
Attn: Michael Marsh
1 Congress Street, Suite 1100 (CWP)
Boston, MA 02114-2023

Anchor Engineering Services
Attn: Mark Zessin
75 Nutmeg Lane
Glastonbury, Connecticut 06033

Kleinschmidt Associates
Attn: Christine Tomichek
35 Pratt St, Suite 201
Essex, CT 06426

Town of Canterbury
Inland Wetlands and Watercourses Commission
Attn: Steven Sadlowski
1 Municipal Drive, P.O. Box 26
Canterbury 06331

Town of Canterbury
Attn: Neil Dupont, First Selectman
1 Municipal Drive
Canterbury 06331

PRE

Project 952-01, Task 12
PRE Cooling Water Pump Station - Horizontal Directional Drilling
11/9/07

Plan Reference: *Anchor Engineering Services, Inc. plan "Water Intake/Discharge Location, Prepared for Plainfield Renewable Energy, LLC, Alternate Pump Station Location, Packer Road, Canterbury, CT" Sheet 1 of 1, Dated 10/30/07, Scale: 1" = 40'.*

Construction Sequence

1. Construction stakeout.
2. Install temporary soil erosion and sedimentation control measures *(silt fence, haybales, anti-tracking pad).*
3. Provide maintenance and protection of traffic in Packer Road.
   (Note: A minimum of one-way alternating traffic shall be maintained at all times in Packer Road. Two-way traffic shall be maintained whenever feasible throughout construction period).
4. Clear and grub within limits of construction and haul spoils offsite for disposal.
5. Construct gravel access road.
   a. Create driveway access at Packer Road.
   b. Install retaining wall *(excavation, cast-in-place concrete, backfill & compact).*
   c. Install drainage culvert across access road *(pipe, culvert ends, riprap inlet/outlet pads).*
   d. Install access road base materials to subgrade limits *(gravel fill, grade & compact).*
6. Prepare staging area for construction operations *(gravel fill, rough grade & compact).*
7. Install pipes from pump station location to river utilizing Horizontal Directional Drilling (HDD) method.
   a. HDD Contractor to mobilize land based equipment and position in proposed pump station building staging area *(track mounted drill rig, support equipment trailer, water tanker trailer, dumpster, storage container).*
   b. HDD Contractor to excavate drilling pit at proposed pump station location and haul spoils offsite for disposal. *(Note: Drilling and reaming mud slurry returned to drill pit and recycled; spoils separated and stockpiled)*
   c. HDD Contractor to position drill rig at proposed pump station location.
   d. HDD Contractor to set-up perimeter wire line for directional drilling control.
   e. HDD Contractor to mobilize river based equipment from existing established river access location. *(portable floating barge with derrick/crane mechanism, work skiff)*
   f. HDD Contractor to fabricate and stage intake and discharge pipelines on land at established river access location *(high density polyethylene HDPE pipe).*
   g. HDD Contractor to install temporary turbidity curtains in river at intake and discharge locations.
   h. HDD Contractor to drill pilot hole for intake line from proposed pump station location to river intake. *(Note: Drill exits river bottom at intake location. Drilling mud slurry is generally balanced by river water hydrostatic pressure and the minimal dispersed amounts shall be contained within turbidity curtains)*
   i. HDD Contractor to drill pilot hole for discharge line from proposed pump station location to river discharge. *(Note: Drill exits river bottom at discharge location. Drilling mud slurry is generally balanced by river water hydrostatic pressure and the minimal dispersed amounts shall be contained within turbidity curtains)*
   j. HDD Contractor to transfer HDPE intake pipeline from established river access land staging location to river intake location by floating/towing with work skiff.
   k. HDD Contractor to push ream intake line drill hole from pump station to river intake location. Upon reamer exit at river intake location, connect to HDPE intake pipeline and install by pulling back through hole to pump station location.
   l. HDD Contractor to transfer HDPE discharge pipeline from established river access land staging location to river discharge location by floating/towing with work skiff.
   m. HDD Contractor to push ream discharge line drill hole from pump station to river discharge location. Upon reamer exit at river discharge location, connect to HDPE discharge pipeline and install by pulling back through hole to pump station location.
   n. HDD Contractor to pressure test both intake and discharge pipelines.
   o. HDD Contractor to install intake termination assembly fitting/structure and anchor in river.
   p. HDD Contractor to install discharge termination assembly fitting/structure and anchor in river.
   q. HDD Contractor to remove temporary turbidity control curtains in river after turbidity subsides.
   r. HDD Contractor to demobilize river based equipment.
   s. HDD Contractor to demobilize land based equipment.
8. Install pump station building and equipment.
   a. Install foundation *(excavation, cast-in-place concrete, backfill & compact).*
   b. Construct building.
   c. Install pump station equipment.
9. Install intake and discharge underground piping in access road from pump station building to Packer Road.
10. Install underground site utilities *(telephone, electric, cable)* in access road from pump station building to Packer Road.
11. Complete access road and building parking area *(install traffic bound gravel surface course).*
12. Turf establishment *(fine grade, loam, seed, fertilize, mulch, jute mesh as required, water & mowing maintenance).*
13. Upon turf establishment, remove temporary soil erosion & sedimentation control measures.

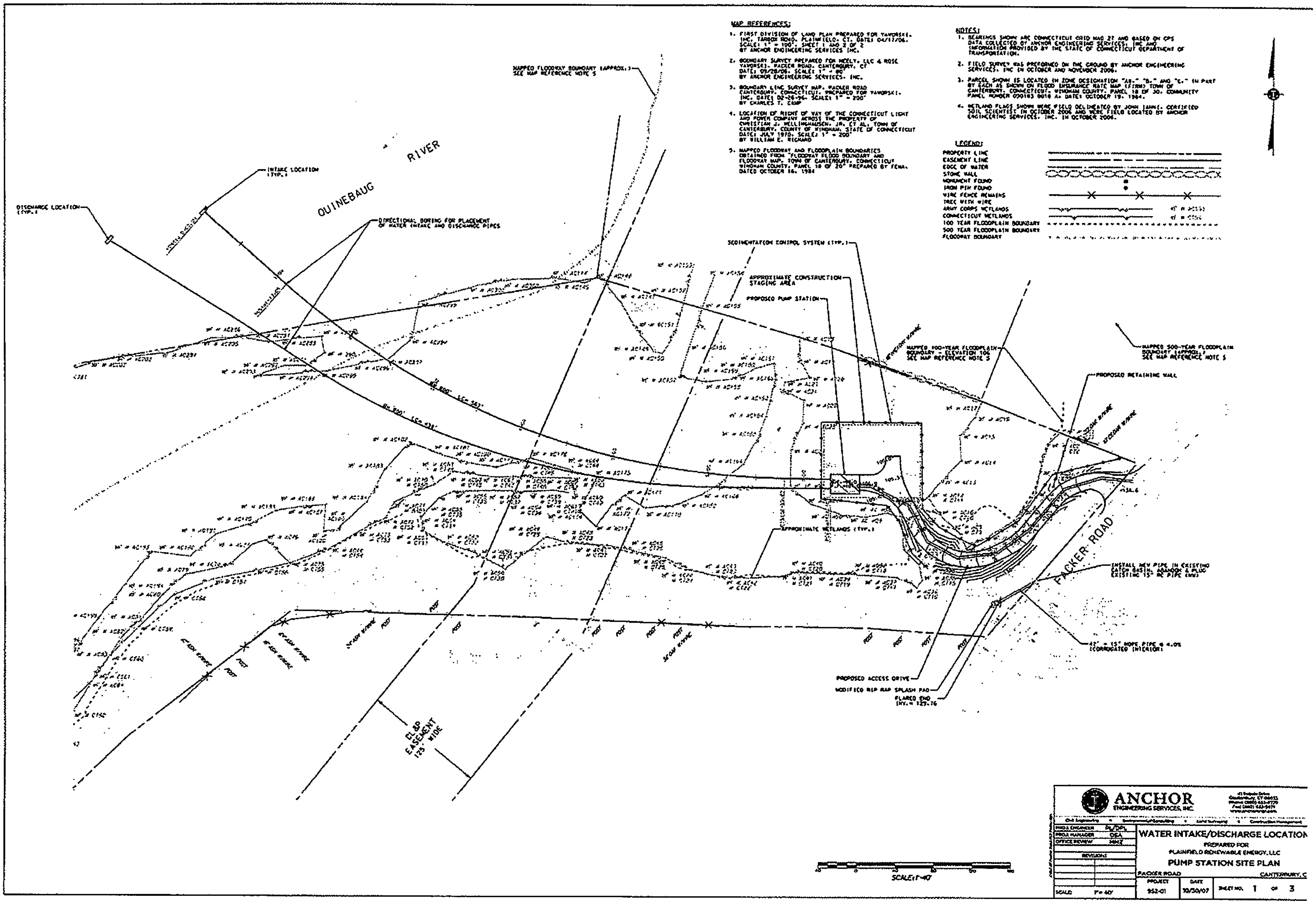
IMPACTS/DISTURBANCES TO SENSITIVE SOILS AND COMPARISON OF REVISED LAYOUT TO ORIGINAL LAYOUT

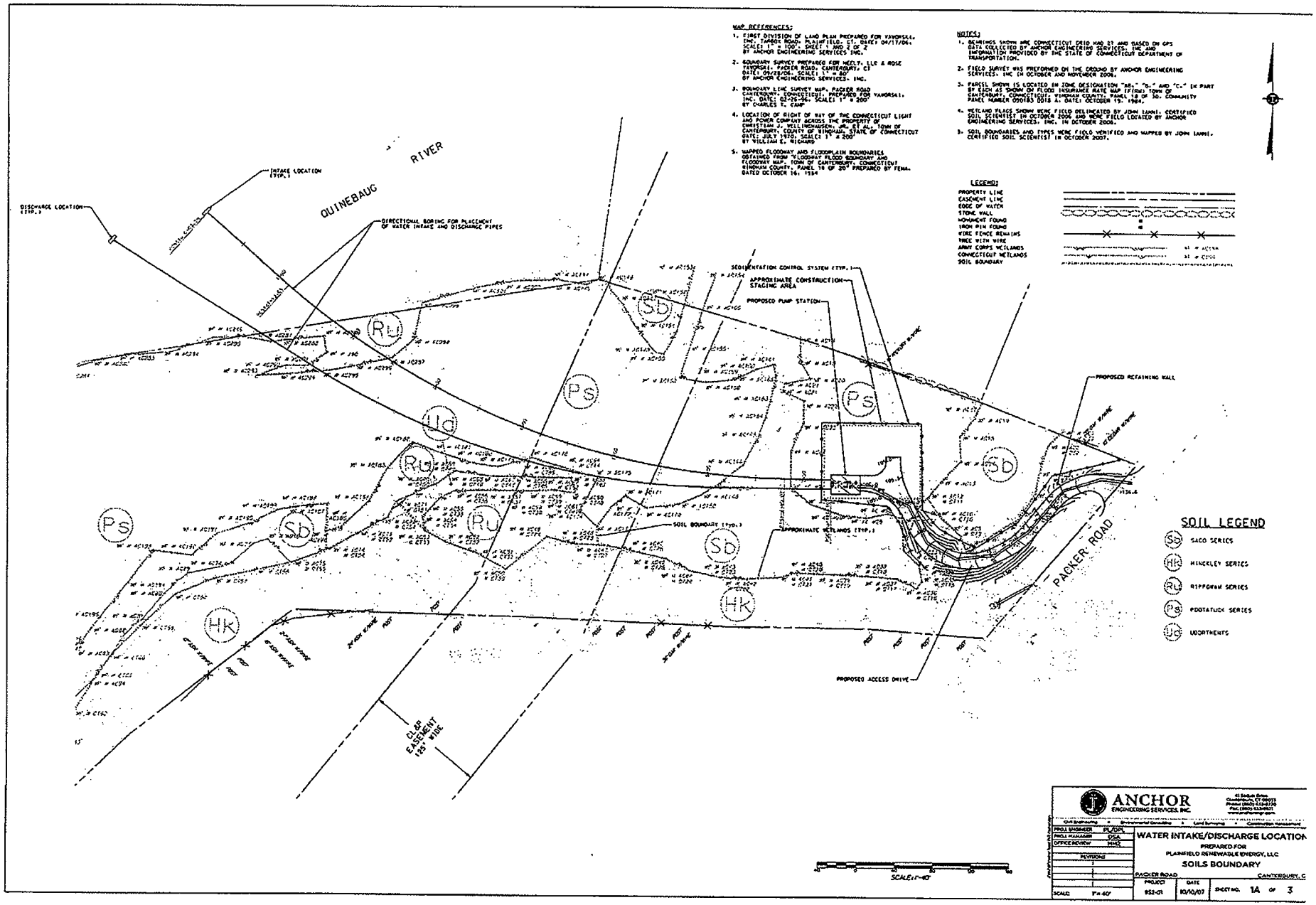
Sensitive Soils Types	Units	Revised Pump House Location		Original Layout		Net Change	
		Permanent	Temporary (*)	Permanent	Temporary	Permanent	Temporary
Army Corps Regulated Wetlands	acres	0	0.0017	0	0.019	0	-0.017
Connecticut Regulated Wetlands (Alluvial Floodplain Soils)	acres	0.078	0.14	0	0.34	0.078	-0.20
Hinckley Soils (Potential Eastern Spadefoot Toad Habitat)	acres	0.19	0.21	0.65	0.65	-0.46	-0.44

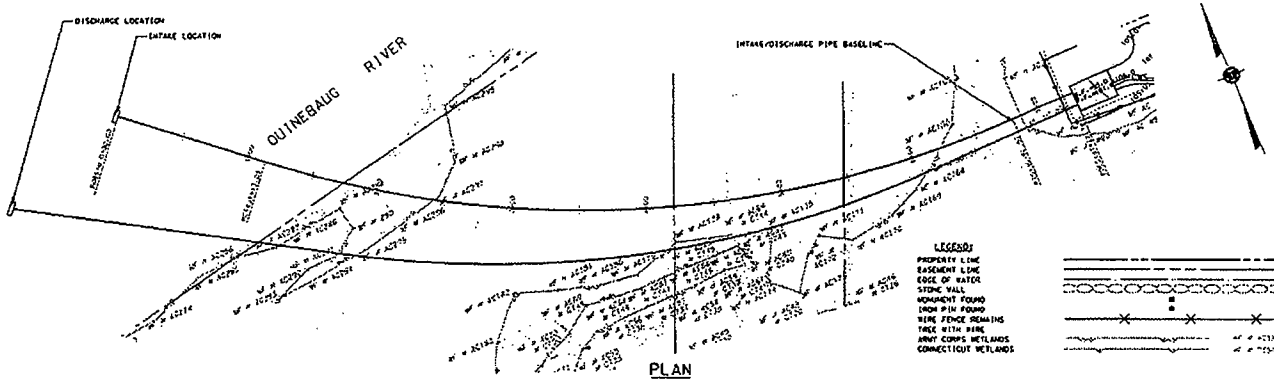
Notes:

Temporary impacts are construction-related impacts.

Temporary impacts (*) to Army Corps regulated wetlands soils are for installation of silt fence along the edge of the Army Corps reguated wetlands.

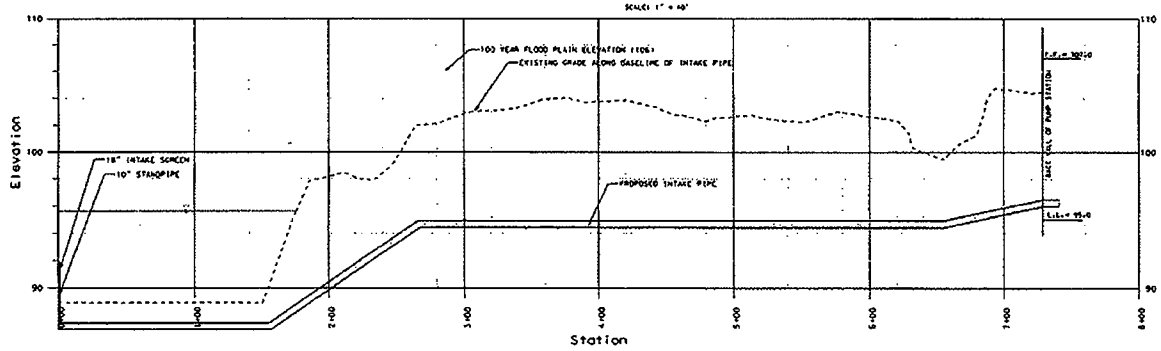

MAP REFERENCES:
1. FIRST DIVISION OF LAND PLAN PREPARED FOR YAVORSKI, INC. TARBOX ROAD, PLAINFIELD, CT. DATE: 04/17/06. SCALE: 1" = 100'. SHEET 1 AND 2 OF 2 BY ANCHOR ENGINEERING SERVICES INC.
2. BOUNDARY SURVEY PREPARED FOR NEELY, LLC & ROSE YAVORSKI. PACKER ROAD, CANTERBURY, CT DATE: 09/28/06. SCALE: 1" = 60' BY ANCHOR ENGINEERING SERVICES, INC.
3. BOUNDARY LINE SURVEY MAP, PACKER ROAD CANTERBURY, CONNECTICUT, PREPARED FOR YAVORSKI, INC. DATE: 02-26-96. SCALE: 1" = 200' BY CHARLES T. CAMP
4. LOCATION OF RIGHT OF WAY OF THE CONNECTICUT LIGHT AND POWER COMPANY ACROSS THE PROPERTY OF CHRISTIAN J. WELLINGHAUSEN, JR. ET AL, TOWN OF CANTERBURY, COUNTY OF WINDHAM, STATE OF CONNECTICUT DATE: JULY 1970. SCALE: 1" = 200' BY WILLIAM E. RICHARD
5. MAPPED FLOODWAY AND FLOODPLAIN BOUNDARIES OBTAINED FROM "FLOODWAY FLOOD BOUNDARY AND FLOODWAY MAP, TOWN OF CANTERBURY, CONNECTICUT WINDHAM COUNTY, PANEL 18 OF 20" PREPARED BY FEMA, DATED OCTOBER 16, 1984
NOTES:
1. BEARINGS SHOWN ARE CONNECTICUT GRID NAD 27 AND BASED ON GPS DATA COLLECTED BY ANCHOR ENGINEERING SERVICES, INC AND INFORMATION PROVIDED BY THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION.
2. FIELD SURVEY WAS PREFORMED ON THE GROUND BY ANCHOR ENGINEERING SERVICES, INC IN OCTOBER AND NOVEMBER 2006.
3. PARCEL SHOWN IS LOCATED IN ZONE DESIGNATION "A6," "B," AND "C," IN PART BY EACH AS SHOWN ON FLOOD INSURANCE RATE MAP (FIRM) TOWN OF CANTERBURY, CONNECTICUT, WINDHAM COUNTY, PANEL 18 OF 30, COMMUNITY PANEL NUMBER 090183 0018 A, DATE: OCTOBER 19, 1984.
4. WETLAND FLAGS SHOWN WERE FIELD DELINEATED BY JOHN IANNI, CERTIFIED SOIL SCIENTIST IN OCTOBER 2006 AND WERE FIELD LOCATED BY ANCHOR ENGINEERING SERVICES, INC. IN OCTOBER 2006.
LEGEND:
PROPERTY LINE
EASEMENT LINE
EDGE OF WATER
STONE WALL
MONUMENT FOUND
IRON PIN FOUND
WIRE FENCE REMAINS
TREE WITH WIRE
ARMY CORPS WETLANDS
CONNECTICUT WETLANDS
100 YEAR FLOODPLAIN BOUNDARY
500 YEAR FLOODPLAIN BOUNDARY
FLOODWAY BOUNDARY
MAPPED FLOODWAY BOUNDARY (APPROX.) SEE MAP REFERENCE NOTE 5
QUINEBAUG
RIVER
INTAKE LOCATION (TYP.)
DISCHARGE LOCATION (TYP.)
DIRECTIONAL BORING FOR PLACEMENT OF WATER INTAKE AND DISCHARGE PIPES
SEDIMENTATION CONTROL SYSTEM (TYP.)
APPROXIMATE CONSTRUCTION STAGING AREA
PROPOSED PUMP STATION
MAPPED 100-YEAR FLOODPLAIN BOUNDARY - ELEVATION 106 SEE MAP REFERENCE NOTE 5
MAPPED 500-YEAR FLOODPLAIN BOUNDARY (APPROX.) SEE MAP REFERENCE NOTE 5
PROPOSED RETAINING WALL
APPROXIMATE WETLANDS (TYP.)
PACKER ROAD
INSTALL NEW PIPE IN EXISTING CATCH BASIN, ABANDON & PLUG EXISTING 15" RC PIPE (WW)
45' ± 15" HDPE PIPE @ 4.0% (CORRUGATED INTERIOR)
PROPOSED ACCESS DRIVE
MODIFIED RIP RAP SPLASH PAD
FLARED END INV. = 123.76
CL&P EASEMENT 125' WIDE
POST
SCALE: 1"=40'
ANCHOR
ENGINEERING SERVICES, INC.
WATER INTAKE/DISCHARGE LOCATION
PREPARED FOR
PLAINFIELD RENEWABLE ENERGY, LLC
PUMP STATION SITE PLAN
PACKER ROAD
CANTERBURY, C
PROJ. ENGINEER
PROJ. MANAGER DEA
OFFICE REVIEW
REVISIONS
SCALE 1" = 40'
PROJECT 952-01
DATE 10/30/07
SHEET NO. 1 OF 3


MAP REFERENCES:
1. FIRST DIVISION OF LAND PLAN PREPARED FOR YANKOSKI, INC. TARBOX ROAD, PLAINFIELD, CT. DATED 04/17/06. SCALES 1" = 100'. SHEET 1 AND 2 OF 2. BY ANCHOR ENGINEERING SERVICES INC.
2. BOUNDARY SURVEY PREPARED FOR WCLV, LLC & ROSE YANKOSKI, PACKER ROAD, CANTERBURY, CT DATED: 09/26/06. SCALE: 1" = 50'. BY ANCHOR ENGINEERING SERVICES, INC.
3. BOUNDARY LINE SURVEY MAP, PACKER ROAD CANTERBURY, CONNECTICUT. PREPARED FOR YANKOSKI, INC. DATE: 02-15-94. SCALE: 1" = 200' BY CHARLES T. CAMP
4. LOCATION OF RIGHT OF WAY OF THE CONNECTICUT LIGHT AND POWER COMPANY ACROSS THE PROPERTY OF CHRISTIAN J. WILLINGHAUSEN, JR. ET AL. TOWN OF CANTERBURY, COUNTY OF WINDHAM, STATE OF CONNECTICUT DATE: JULY 1970. SCALE: 1" = 200' BY WILLIAM E. RICHARD
5. MAPPED FLOODWAY AND FLOODPLAIN BOUNDARIES OBTAINED FROM "FLOODWAY FLOOD BOUNDARY AND FLOODWAY MAP, TOWN OF CANTERBURY, CONNECTICUT, WINDHAM COUNTY, PANEL 10 OF 20" PREPARED BY FEMA. DATED OCTOBER 16, 1984
NOTES:
1. BEARINGS SHOWN ARE CONNECTICUT GRID NAD 27 AND BASED ON GPS DATA COLLECTED BY ANCHOR ENGINEERING SERVICES, INC AND INFORMATION PROVIDED BY THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION.
2. FIELD SURVEY WAS PREFORMED ON THE GROUND BY ANCHOR ENGINEERING SERVICES, INC IN OCTOBER AND NOVEMBER 2006.
3. PARCEL SHOWN IS LOCATED IN ZONE DESIGNATION "RR-1" "R-1" AND "C-1" IN PART BY EACH AS SHOWN ON FLOOD INSURANCE RATE MAP (FIRM) TOWN OF CANTERBURY, CONNECTICUT, WINDHAM COUNTY, PANEL 10 OF 20, COMMUNITY PANEL NUMBER 090185 0010 A. DATE: OCTOBER 19, 1984.
4. WETLAND FLAGS SHOWN WERE FIELD DELINEATED BY JOHN IANNI, CERTIFIED SOIL SCIENTIST IN OCTOBER 2006 AND WERE FIELD LOCATED BY ANCHOR ENGINEERING SERVICES, INC. IN OCTOBER 2006.
5. SOIL BOUNDARIES AND TYPES WERE FIELD VERIFIED AND MAPPED BY JOHN IANNI, CERTIFIED SOIL SCIENTIST IN OCTOBER 2007.
LEGEND:
PROPERTY LINE
EASEMENT LINE
EDGE OF WATER
STONE WALL
MONUMENT FOUND
IRON PIN FOUND
WIRE FENCE REMAINS
TREE WITH WIRE
ARMY CORPS WETLANDS
CONNECTICUT WETLANDS
SOIL BOUNDARY
QUINEBAUG RIVER
INTAKE LOCATION (TYP.)
DISCHARGE LOCATION (TYP.)
DIRECTIONAL BORING FOR PLACEMENT OF WATER INTAKE AND DISCHARGE PIPES
SEDIMENTATION CONTROL SYSTEM (TYP.)
APPROXIMATE CONSTRUCTION STAGING AREA
PROPOSED PUMP STATION
PROPOSED RETAINING WALL
SOIL BOUNDARY (TYP.)
APPROXIMATE WETLANDS (TYP.)
PROPOSED ACCESS DRIVE
CLEAR EASEMENT 150' WIDE
PACKER ROAD
SOIL LEGEND
Sb SACO SERIES
HK HINCKLEY SERIES
RU RIPPOWAM SERIES
Ps POQUETUCK SERIES
Ud UDORTHENTS
SCALE: 1"=40'
ANCHOR ENGINEERING SERVICES, INC.
WATER INTAKE/DISCHARGE LOCATION
PREPARED FOR
PLAINFIELD RENEWABLE ENERGY, LLC
SOILS BOUNDARY
PACKER ROAD
CANTERBURY, C
PROJECT 952-01
DATE 10/10/07
SHEET NO. 1A OF 3



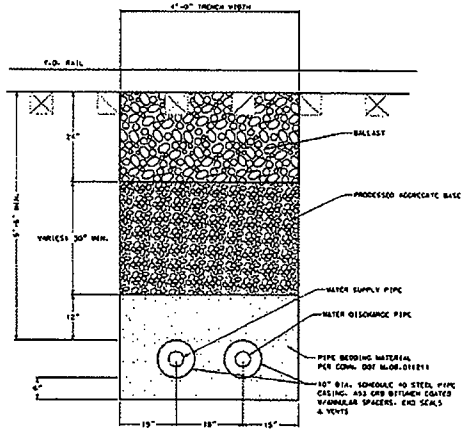
PLAN

SCALE: 1" = 40'



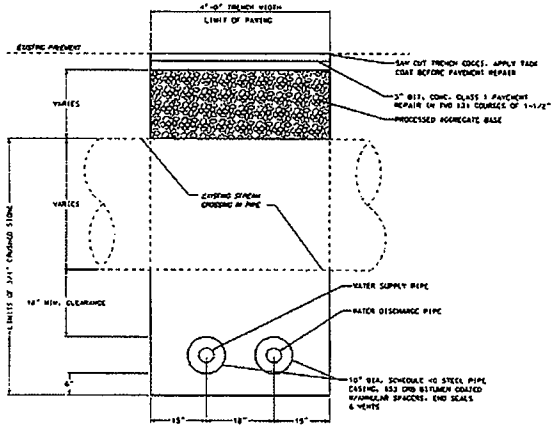
PROFILE

SCALES: HORIZ. 1" = 100'
VERT. 1" = 4'



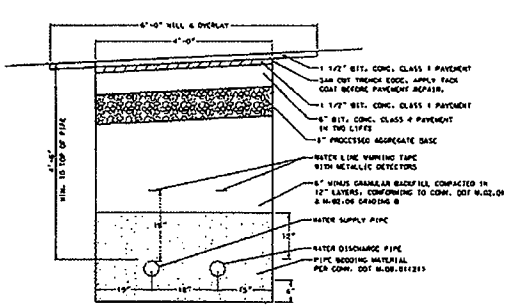
TYPICAL SECTION - RAILROAD CROSSING

NOT TO SCALE



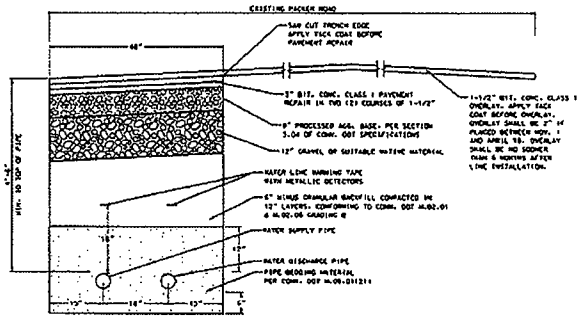
TYPICAL SECTION - STREAM CROSSING (typ of 3)

NOT TO SCALE



TYPICAL SECTION - MILLBROOK ROAD

NOT TO SCALE



TYPICAL SECTION - PACKER ROAD

NOT TO SCALE

ANCHOR ENGINEERING SERVICES, INC.

PROJ. ENGINEER	DLJOR
PROJ. MANAGER	DSA
OFFICE REVIEW	MMZ
REVISIONS	
SCALE: AS NOTED	

WATER INTAKE/DISCHARGE LOCATION

PREPARED FOR

PLAINFIELD RENEWABLE ENERGY, LLC

WATER PIPE PLAN/PROFILE TO PUMP

PACKER ROAD CANTERBURY, C

PROJECT 952-01 | DATE 10/11/07 | SHEET NO. 2 OF 3

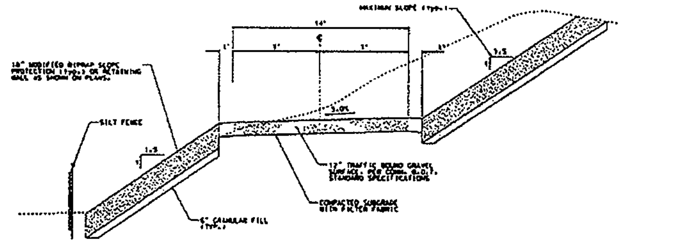
EROSION & SEDIMENTATION CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS OF THE STATE OF CONNECTICUT "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" AND THE LOCAL REGULATIONS OF THE TOWN OF CANTERBURY.
2. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLAN, PRIOR TO CLEARING AND GRUBBING.
3. RUNOFF SHALL BE CONTROLLED BY THE INTERCEPTION, DIVERSION AND SAFE DISPOSAL OF PRECIPITATION. SURROUND SOIL STOCKPILES WITH SILT FENCE. THE BINDING OF SOIL PARTICLES TO MAKE THEM LESS SUSCEPTIBLE TO REMOVAL BY RAIN SPLASH, RUNOFF OR WIND IS SUGGESTED BY THE USE OF NATURAL AND PHYSICAL "BINDERS" SUCH AS MULCH AND FABRICS.
4. AFTER EACH STORM EVENT OR ONCE A WEEK, ALL SEDIMENT AND EROSION CONTROLS WILL BE INSPECTED BY THE OWNER. ANY CORRECTIVE ACTION TO MITIGATE ENVIRONMENTAL CONCERNS WILL BE ORDERED AT THAT TIME. SEDIMENT FROM THE EROSION CONTROL DEVICES SHALL BE REMOVED, WHEN IT REACHES ONE-HALF ITS HEIGHT. REMOVED SEDIMENT SHALL BE PROPERLY DISPOSED OF IN A MANNER WHICH IS CONSISTENT WITH THE INTENT OF THIS PLAN.
5. EROSION CONTROL MEASURES
   a. EROSION CONTROL MEASURES ARE DEPICTED ON THE SITE PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED MAINTENANCE DURING CONSTRUCTION.
   b. FINAL GRADING, SEEDING AND MULCHING SHALL BE DONE WITHIN THE SPECIFIED TIME FRAMES. INSPECTIONS SHALL BE PERFORMED AS SOON AS POSSIBLE FOLLOWING A HEAVY RAIN TO CHECK THE INTEGRITY OF THE BARRIERS, SWALES, SEEDING AND MULCH. ANY REPAIRS OR ADDITIONAL SEED OR MULCH SHALL BE DONE AS SOON AS POSSIBLE.
6. ADDITIONAL EROSION CONTROL MEASURES WILL BE IMPLEMENTED AS DIRECTED BY THE TOWN OF CANTERBURY.
7. CLEARED MATERIALS, SUCH AS BRUSH AND ROAD SPOILS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AS REQUIRED BY THE TOWN OF CANTERBURY.
8. WHERE DEWATERING OF EXCAVATIONS IS REQUIRED THERE SHALL NOT BE A DIRECT DISCHARGE INTO WETLANDS OR WATERCOURSES. PROPER METHODS SHALL BE UTILIZED SUCH AS PUMPING WATER INTO A TEMPORARY SEDIMENTATION BASIN, FLOATING THE INTAKE OF THE PUMP, OR OTHER METHODS TO MINIMIZE AND RETAIN SUSPENDED SOLIDS.

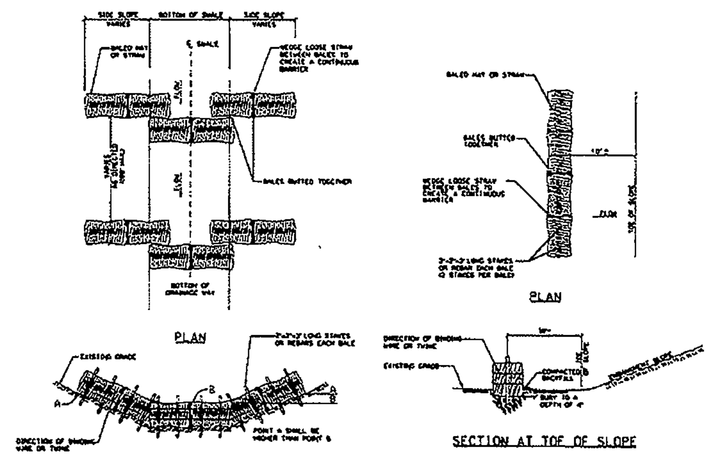
BEST MANAGEMENT PRACTICES
THE CONSTRUCTION CORRIDOR WILL BE CLEARLY MARKED WITH ORANGE SNOW FENCE TO ENSURE THAT CONSTRUCTION EQUIPMENT DOES NOT STRAY FURTHER INTO ADJACENT AND UNDISTURBED AREAS.

IN INSTANCES WHERE CLEARING AND CONSTRUCTION ACTIVITIES ARE REQUIRED NEAR THE EDGE OF WETLANDS, A SMALLER PIECE OF EQUIPMENT WILL BE USED TO MINIMIZE IMPACT.

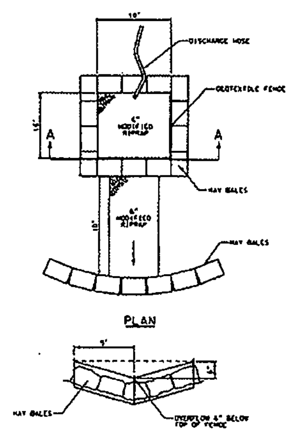
RESTORATION – SEE MITIGATION AND MONITORING PLAN PREPARED BY KLEINSCHMIDT.



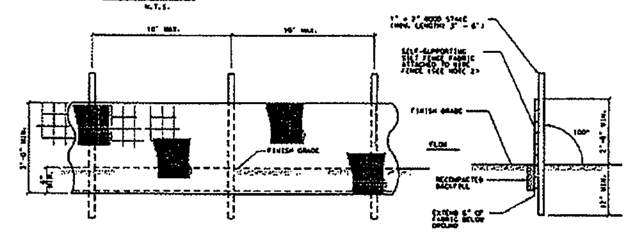
ACCESS DRIVE TYPICAL SECTION
NOT TO SCALE



HAY BALES
N.T.S.



TEMPORARY DEWATERING BASIN
N.T.S.
NOTE: IF REQUIRED PLACE WHERE DIRECTED BY ENGINEER



NOTES:

1) INSTALL SILT FENCE & WOOD STAKES AS RECOMMENDED BY MANUFACTURER.
2) SILT FENCE SUBJECT TO HEAVY LOADS SHALL BE REINFORCED WITH FARM FENCING & STEEL POSTS (U.S. STEEL/L.F.). THE MINIMUM POST LENGTH SHALL BE 5'-6".
3) SILT FENCE FABRIC SHALL BE A PERVIOUS SHEET OF WOVEN PROPYLENE, NYLON, POLYESTER OR POLYETHYLENE FILAMENTS AND SHALL BE CERTIFIED BY THE MANUFACTURER OF SUPPLIER.

SILT FENCE
N.T.S.

ANCHOR ENGINEERING SERVICES, INC.

Civil Engineering • Environmental Consulting • Land Surveying • Construction Management

PROJ. ENGINEER	PL/DCL
PROJ. MANAGER	DSA
OFFICE REVIEW	MKZ
REVISIONS	
12/26/06	
10/11/07	
SCALE	N.T.S.

WATER INTAKE/DISCHARGE LOCATION
PREPARED FOR
PLAINFIELD RENEWABLE ENERGY, LLC
EROSION & SEDIMENTATION CONTROL DETAILS
PACKER ROAD CANTERBURY, C

PROJECT	DATE	SHEET NO.
952-01	12/06/06	3 of 3

MAP REFERENCES:

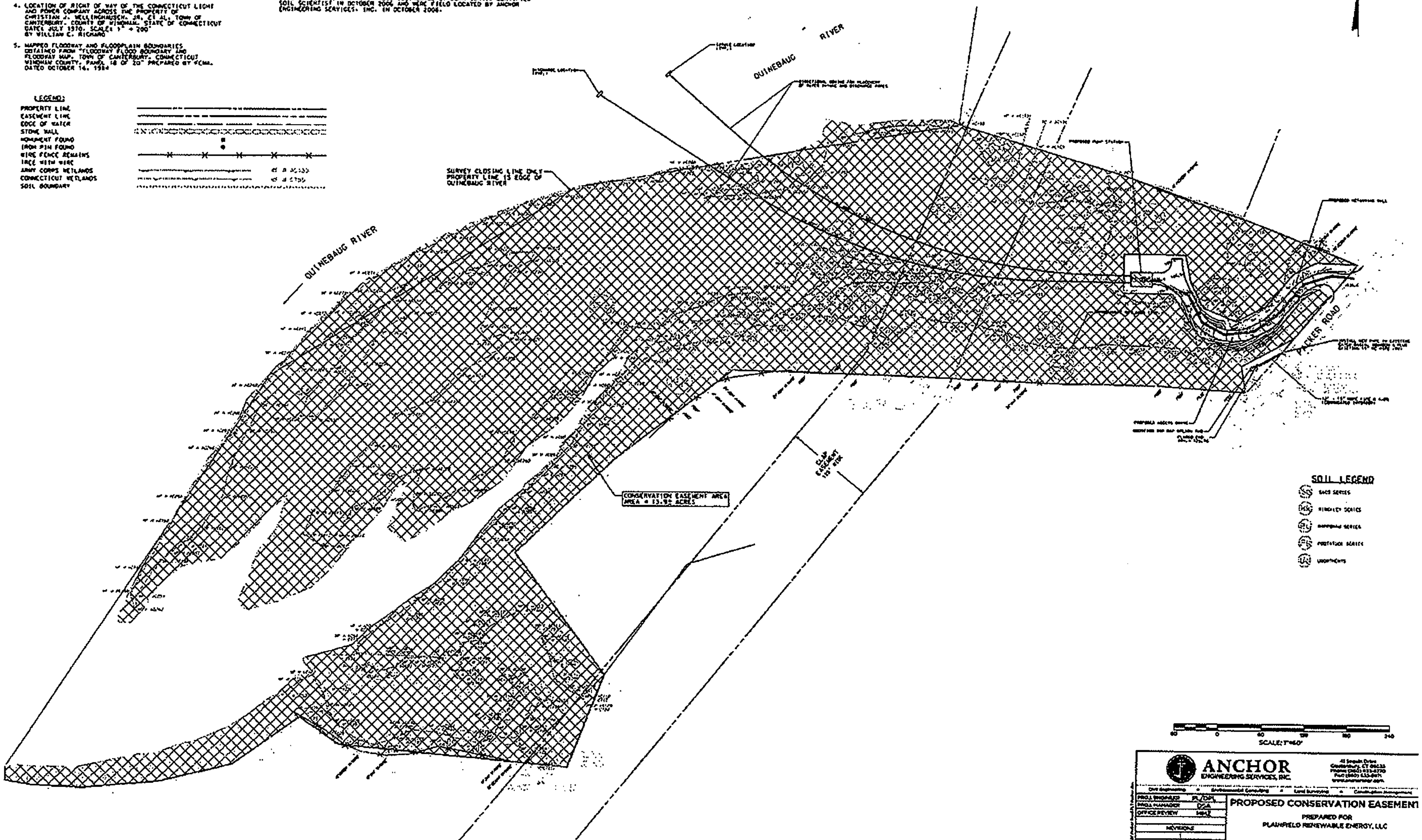
1. FIRST DIVISION OF LAND PLAN PREPARED FOR YAVORSKI, INC. TAROCK ROAD, PLAINFIELD, CT. DATE: 04/17/06. SCALE: 1" = 100', SHEET 1 AND 2 OF 2 BY ANCHOR ENGINEERING SERVICES INC.
2. BOUNDARY SURVEY PREPARED FOR NEELY, LLC & ROSE YAVORSKI, PACKER ROAD, CANTERBURY, CT DATE: 09/28/06, SCALE: 1" = 60' BY ANCHOR ENGINEERING SERVICES, INC.
3. BOUNDARY LINE SURVEY MAP, PACKER ROAD CANTERBURY, CONNECTICUT, PREPARED FOR YAVORSKI, INC. DATE: 02-26-96, SCALE: 1" = 200' BY CHARLES T. CAMP
4. LOCATION OF RIGHT OF WAY OF THE CONNECTICUT LIGHT AND POWER COMPANY ACROSS THE PROPERTY OF CHRISTIAN J. WELLINGHAUSEN, JR. ET AL, TOWN OF CANTERBURY, COUNTY OF WINDHAM, STATE OF CONNECTICUT DATE: JULY 1970, SCALE: 1" = 200' BY WILLIAM C. RICHARD
5. MAPPED FLOODWAY AND FLOODPLAIN BOUNDARIES OBTAINED FROM "FLOODWAY FLOOD BOUNDARY AND FLOODWAY MAP, TOWN OF CANTERBURY, CONNECTICUT WINDHAM COUNTY, PANEL 18 OF 20" PREPARED BY FEMA, DATED OCTOBER 16, 1984

NOTES:

1. BEARINGS SHOWN ARE CONNECTICUT GRID NAD 27 AND BASED ON GPS DATA COLLECTED BY ANCHOR ENGINEERING SERVICES, INC AND INFORMATION PROVIDED BY THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION.
2. FIELD SURVEY WAS PERFORMED ON THE GROUND BY ANCHOR ENGINEERING SERVICES, INC IN OCTOBER AND NOVEMBER 2006.
3. PARCEL SHOWN IS LOCATED IN ZONE DESIGNATION "AE," "B," AND "C," IN PART BY EACH AS SHOWN ON FLOOD INSURANCE RATE MAP (FIRM) TOWN OF CANTERBURY, CONNECTICUT, WINDHAM COUNTY, PANEL 18 OF 20, COMMUNITY PANEL NUMBER 090183 0018 A, DATE: OCTOBER 15, 1984.
4. WETLAND FLAGS SHOWN WERE FIELD DELINEATED BY JOHN IANNI, CERTIFIED SOIL SCIENTIST IN OCTOBER 2006 AND WERE FIELD LOCATED BY ANCHOR ENGINEERING SERVICES, INC. IN OCTOBER 2006.

LEGEND:

PROPERTY LINE
EASEMENT LINE
EDGE OF WATER
STONE WALL
MONUMENT FOUND
IRON PIN FOUND
WIRE FENCE REMAINS
TREE WITH WIRE
ARMY CORPS WETLANDS
CONNECTICUT WETLANDS
SOIL BOUNDARY



SCALE: 1"=60'

ANCHOR ENGINEERING SERVICES, INC.

Civil Engineering • Environmental Consulting • Land Surveying • Construction Management

PROJ. ENGINEER	PL/DPL
PROJ. MANAGER	DSA
OFFICE REVIEW	MHJ
REVISIONS	
SCALE:	1"= 60'

PROPOSED CONSERVATION EASEMENT

PREPARED FOR
PLAINFIELD RENEWABLE ENERGY, LLC

PACKER ROAD — CANTERBURY, C

PROJECT	DATE	SHEET NO.
952-01	11/08/07	2 OF 2