

EXHIBIT H

EROSION AND SEDIMENT CONTROL PLAN

WIND COLEBROOK SOUTH

COLEBROOK, CONNECTICUT

Prepared for:



BNE Energy
29 South Main Street
Town Center, Suite 200
West Hartford, CT 06107

by:



6302 Fairview Road, Suite 600
Charlotte, NC 28210

NOVEMBER 2010

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November 2010

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**Section 1.0
PROJECT INTRODUCTION**

1.0 PROJECT INTRODUCTION

Project/Site Information:

Project/Site Name: Wind Colebrook South

Location: 29 Flagg Hill Road
Colebrook, Connecticut

Latitude/Longitude: Latitude: Longitude:
41° 57' 50" N 73° 08' 46" W

Method for determining latitude/longitude: Google Earth

1.1 SITE SUMMARY

1.1.1 Existing Conditions

Located at 29 Flagg Hill Road and consists approximately 79.74 acres and is undeveloped with the exception of the meteorological tower, which is approximately 180 feet in height. The Property is located along the Norfolk town line and approximately 600 feet from the Winsted/Winchester town line. Though the surrounding land uses are mixed, consisting of both commercial and residential development, the property is located in the R-2 residential zone. The Colebrook zoning regulations do not address wind turbine installations. The Property is abutted by the undeveloped land owned by the Nature Conservancy to the west, land owned by the Gun Club to the north and residential properties to the east and south. The site is currently accessed via Flagg Hill Road. This access point will be maintained throughout the construction process. Currently, there are no structural stormwater discharge points. All stormwater flows over land to discharge points off site.

1.1.2 Project Description

The developer plans to install three GE 1.6 MW wind turbines at the Property: one in the northwest corner of the Property, one in the northeast corner of the Property and one in the southern area of the Property where the meteorological tower is currently located. In addition to the three turbines, the project will include construction of temporary equipment lay-down areas for each turbine, crane assembly area, access road, permanent facility support building and associated ground equipment including an electrical collector yard and associated utility infrastructure so that the turbines can be interconnected to the electrical grid. Following completion of the project, all temporary structures will be removed and the site returned to pre-construction conditions.

1.1.3 Site Specific Concerns

The terrain and existing topography of the project site is such that during construction special care will be required to ensure that all BMPs remain intact and functioning.

1.1.4 Construction Schedule

Currently specific dates for construction have not been determined but anticipate construction to begin in spring 2011. Specific dates will be provided to the reviewing officials.

1.2 PROJECT OWNER AND OPERATOR

The project owner and operator, BNE Energy, will be the responsible entity for completing the project. The address and telephone is:

BNE Energy
29 South Main Street
Town Center Suite 200
West Hartford, CT 06107
(800) 450-0503

1.3 SOILS, SLOPES, VEGETATION, AND CURRENT DRAINAGE PATTERNS

1.3.1 Soil type(s)

Based upon a review of typical geologic conditions and the National Soil Cooperative Survey, the soils have been classified as (1) Bice- Millsite complex soils slopes 3 to 45 percent slopes – very rocky; (2) Westminster- Millsite- Rock Outcrop complex 3 to 15 percent slopes; (3) Bice fine sandy loams ranging from 3 to 15 percent slopes – very stony; (4) Schroon fine sandy loams ranging from 2 to 15 percent slopes - very stony; (5) Shelburne fine sandy loam, 8 to 35 percent slopes – extremely stony; (6) Ashfield fine sandy loam, 8 to 15 percent slopes – very stony, (7) Wonsqueak mucky peat; and (8) Brayton-loonmeadow complex – extremely stony.

1.3.2 Slopes

The project site consists of varying slope conditions ranging from relatively flat conditions in the area of the meteorological tower to steep slopes along the eastern and western property boundary.

1.3.3 Drainage Patterns

Existing site topography is such that runoff migrates, typically via overland sheet flow, through the site to either the existing pond or to an existing ditch line along Flagg Hill Road. An unnamed perennial watercourse outlets from the pond in the vicinity of the southern Property boundary, flowing south.

1.3.4 Vegetation

The property is generally characterized by second growth and upland hardwood forest. Forested uplands in the eastern portion of the Property are dominated by deciduous pole timber (trees 4.0 to 11.9 inches diameter at breast height [DBH]) and small sawtimber size trees (12 to 15 inches DBH). While in the northwest and southwest corners of the property is characterized as red oak-northern hardwood forest.

1.4 SITE FEATURES AND SENSITIVE AREAS TO BE PROTECTED

1.4.1 Receiving Waters and TMDL Applicability

There are currently zero impaired waterways on the most current 303(d) listing of impaired waterways within the vicinity of the project site.

1.4.2 Wetlands

Within to the property boundary a wetland has been identified and delineated. Mitigation and impacts are discussed in the environmental assessment completed by VHB, Inc.

**Section 2.0
CONSTRUCTION ACTIVITIES**

2.0 CONSTRUCTION ACTIVITIES

2.1 DESCRIPTION OF CONSTRUCTION ACTIVITY

Prior to construction BNE will complete all pre-construction planning activities. BNE will continue to consult with municipalities, state agencies and federal agencies, as applicable, and will conduct site surveys to determine construction methodologies and procedures to minimize adverse effects to the environment and public.

Construction will typically consist of activities such as:

- Surveys to stake access roads and structural locations
- Wetland delineation
- Geotechnical investigations
- Establishment of construction staging area
- Installation of sediment and erosion control devices
- Excavation and installation of access roads
- Excavation and installation of lay-down and equipment assembly areas
- Excavation and installation of foundations and erection of new structures
- Installation of conductors
- Restoration of site, including re-establishment of vegetative areas

2.2 CONSTRUCTION SITE ESTIMATES

The following are estimates of the construction site:

Area to be disturbed: 10.75
Total Project area: 80.0 acres
Percentage impervious area before construction: 0 %
Runoff coefficient before construction: 65
Percentage impervious area after construction: 3.36 %
Runoff coefficient after construction: 65
Summary of groundwater recharge: 0.022 AC-FT

Section 3.0
EROSION CONTROL BMP'S

3.0 BEST MANAGEMENT PRACTICES

Soil erosion and sediment controls are measures that are used to reduce the amount of soil particles that are carried from a land area and deposited in receiving waters. This section provides a general description of the most appropriate control measures proposed for the Project. The permittee's construction contractor(s) and their subcontractors will be responsible for amending the erosion and sediment controls in the SWPPP for their portion(s) of the project. Based on field conditions at the time of construction, the contractors or subcontractors may adjust the locations and types of BMPs so that erosion and sedimentation are controlled to the maximum extent practicable. However, in no case will modifications to the SWPPP result in any less stringent erosion and sedimentation control measures than specified herein.

3.1 STRUCTURAL CONTROL PRACTICES

Structural control practices divert flows from exposed soils, store water flow, or otherwise limit runoff from exposed areas of the site. Such practices may include silt fences, drainage swales, sediment traps, check dams, subsurface drains, pipe slope drains, rock outlet protection (rip-rap), reinforced soil retaining systems, and temporary or permanent sediment basins. Some of these practices may be used as both temporary and permanent control measures. Structural control practices should be placed in upland areas to the degree practicable to prevent erosion and reduce sedimentation in lower elevation areas.

3.2 TEMPORARY EROSION CONTROL PRACTICES

Erosion and sediment control measures will be in place prior to the initiation of soil disturbing activities and will be maintained throughout construction. The contractor may need erosion control measures in other locations of the project as work progresses to keep sediment from leaving the construction site. These measures will be determined by the contractor in the field; if measures are changed in the field, the SWPPP must be modified accordingly. All temporary erosion controls will be removed after the protected area is finally stabilized. The minimum temporary erosion and sediment control practices that will be used for the Project are discussed in the following sections.

3.2.1 *Sediment Fence (GSF)*

Will retain sediment from small disturbed areas. Sediment fence will be placed along slopes as shown on construction details. The contractor will use his best judgment to install additional sediment fence as necessary to prevent loss of sediment. Refer to section 5-11 of 2002 Connecticut Guidelines for Soil Erosion and Sediment Control.

Maintenance: Inspect the silt fence at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inches or greater to determine maintenance needs. When used for dewatering operations, inspect frequently before, during and after pumping operations. Remove the sediment deposits, or if room allows, install a second silt fence up slope from the existing fence when deposits reach approximately one half the height of the existing fence. Replace or repair within 24 hours of an observed failure. Refer to Connecticut Guidelines for Soil Erosion and Sediment Control figure GF-5 for troubleshooting failures. Maintain silt fence until the contributing area is stabilized.

3.2.2 Hay Bale Barrier (HB)

Will retain sediment from small disturbed areas. Hay bales will be placed along slopes as shown on construction details. The contractor will use his best judgment to install additional hay bales as necessary to prevent loss of sediment. Refer to section 5-11 of 2002 Connecticut Guidelines for Soil Erosion and Sediment Control.

Maintenance: Inspect the hay bale barrier at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inches or greater to determine maintenance needs. When used for dewatering operations, inspect frequently before, during and after pumping operations. Remove the sediment deposits, or if room allows, install a secondary barrier up slope from the existing barrier when deposits reach approximately one half the height of the barrier. Replace or repair within 24 hours of an observed failure. Refer to Connecticut Guidelines for Soil Erosion and Sediment Control figure HB-5 for troubleshooting failures. Maintain hay bale barrier until the contributing area is stabilized.

3.2.3 Stone Check Dam (SCD)

Will be used to reduce velocity of concentrated flows, thus reducing erosion of the drainage way.

Maintenance: Inspect the stone check dam at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inches or greater to determine maintenance needs. Remove the sediment deposits when deposits reach approximately one half the height of the check dam. Replace or repair within 24 hours of an observed failure. Maintain until the contributing area is stabilized.

3.2.4 Temporary Pipe Slope Drain (TSD)

Will be used to carry water over excessive changes in grade. TSD's will convey concentrated stormwater runoff flows without causing erosion problems either on or at the toe of the slope.

Maintenance: Inspect the temporary pipe slope drain at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inches or greater to determine maintenance needs. Repair damage as necessary. Avoid the placement of any material on the top of the pipe and prevent vehicular traffic from crossing the slope drain.

3.2.5 Temporary Diversion (TD)

Will be used to divert sediment laden runoff from a disturbed area to a sediment trapping facility.

Maintenance: When the temporary diversion is located within close proximity to on going construction activities, inspect the diversion at the end of each work day and immediately repair damage caused by construction equipment. Otherwise, inspect the temporary diversion and associated measures at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inches or greater to determine maintenance needs. Repair within 24 hours of an observed failure.

3.2.6 Temporary Fill Berm (TFB)

Will be used to divert runoff from unprotected fill slopes during construction to a stabilized outlet or sediment trapping facility.

Maintenance: Inspect the temporary fill berm and associated controls at the end of each work day to ensure the criteria for installing the measures have been met. Determine if repair or modification is needed. This measure is temporary and under most situations will be covered the next work day. Maintenance requirements should be minimal. The contractor should avoid placing other material over the berm and construction traffic should not be allowed to cross.

3.2.7 Temporary Sediment Trap (TST)

Will be used to detain sediment laden runoff from small disturbed areas long enough to allow the majority of sediment to settle out.

Maintenance: Inspect the temporary sediment trap and associated controls at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inches or greater to determine maintenance needs. Check the outlet to verify that it is structurally sound and has not been damaged by erosion or construction equipment. The height of the stone outlet should be maintained at least 1 foot below the crest of the embankment. When sediment has accumulated more than one quarter of the minimum wet storage volume, dewater and remove sediment as necessary to restore the trap to its original dimensions.

3.2.8 Construction Entrance (CE)

Will be used to reduce tracking of sediment off site to paved areas.

Maintenance: Maintain the entrance in a condition which will prevent tracking and washing of sediment onto paved surfaces. Provide periodic top dressing with additional stone or additional length as required. Immediately remove all sediment spilled, dropped, washed or tracked onto paved surfaces.

3.2.9 Tree Protection (TP)

Will be used to ensure the survival of existing desirable trees for their effectiveness in soil erosion and sediment control during construction.

Maintenance: Inspect tree protection zones weekly during site construction for damage to the tree crown, trunk and root system. When trees have been damaged or the protection zone has been compromised, consult an arborist licensed in CT to determine how damage should be addressed.

3.2.10 Temporary Erosion Control Blankets (ECB)

Will be used to provide temporary surface protection to disturbed soils to absorb raindrop impact and to reduce sheet and rill erosion.

Maintenance: Inspect temporary erosion control blankets at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inches or greater to determine maintenance needs. Repair any dislodged or failed blankets immediately.

3.3 SOIL STABILIZATION PRACTICES

Soil stabilization involves covering disturbed soils with grass, mulch, straw, geotextiles, trees, vines, or shrubs. Stabilization practices for exposed disturbed soils are extremely important while

conducting construction activities. Vegetative cover serves to reduce the erosion potential by absorbing the energy of raindrops, promoting infiltration in lieu of runoff, and reducing the velocity of runoff. Stabilization measures shall be initiated as soon as practicable, but no more than 14 days after construction activities have temporarily or permanently ceased on any portion of the site.

3.4 MAINTENANCE AND INSPECTIONS

All erosion and sediment control devices shall be installed pursuant to the specifications in the construction details. They will be maintained so that they remain effective at all times.

Erosion and sediment control devices will be inspected by qualified personnel at least once every seven calendar days or at least once every 14 calendar days and within 24 hours of each 0.5-inch or greater rainfall event. During each inspection, the construction inspector will complete the Inspection and Maintenance Report Form located in the appendix. This form will be copied and used as necessary. Ineffective temporary erosion control measures will be repaired or replaced before the next storm event or as soon as practicable. The permittee will immediately install additional temporary erosion control devices in any area deemed in need of protection.

Following temporary or final stabilization, inspections must be conducted at least once a month. If construction has been halted due to frozen conditions, regular inspections are not mandatory until one month before the expected thaw. If vegetation establishment is not satisfactory, special steps to correct the problem will be implemented such as over seeding, mulching, sodding, or the use of erosion control blankets. Once a definable area of the construction site has been finally stabilized, no further inspection requirements apply to that area.

3.5 FINAL STABILIZATION

3.5.1 Seeding

The contractor will be responsible for labor, materials, tools, equipment, and other related items required for preparing ground, providing for sowing of seeds, fertilizing, mulching and top dressing, and other management practices required for erosion control and to achieve final stabilization. It will be the contractor's responsibility to make sure that the soil seedbed is not blown, washed, or otherwise removed from the site. The contractor will make repairs (including replacement of lost topsoil and mulch) to the seedbed preparation site in the event of heavy rain, wind, or other natural events that cause damage. When practicable, native plant species should be used for landscaping.

3.5.2 Fertilizer

Soil in areas of disturbance may need supplementation from fertilizer. Soil tests may be necessary to determine the most appropriate fertilizer for each location. Once applied, the fertilizer will be worked into the soil to limit exposure to stormwater. Fertilizer spills will be cleaned up immediately and will not be applied along or in a waterway.

3.5.3 Mulching

Mulching will be used in conjunction with both temporary and permanent seeding practices to enhance success by providing erosion protection prior to the onset of vegetative growth. Mulches enhance plant establishment by moderating soil temperatures and conserving moisture. After

seeding, straw or hay mulch will be applied at a rate of two to three tons per acre on the disturbed areas. Other forms of mulch will be applied at a rate designated by the Project Engineer. Mulch will not be applied in wetlands, on lawns, and areas where hydro-mulch is used. Mulch will be anchored immediately after placement on steep slopes and stream banks. Mulch will be held in place by a very thin covering of topsoil, small brush, pins, stakes, wire mesh, asphalt binder, or other adhesive material approved by the project engineer.

3.5.4 Topsoiling

Topsoil should be applied in areas where the subsoil or existing surface soil does not provide an adequate growth medium for the desired vegetation, where soil is too shallow to provide adequate rooting depth, or where the soil contains substances toxic to the desired vegetation. Topsoil shall be reasonably free from subsoil and stumps, roots, brush, stones, and clay lumps or similar objects.

3.5.5 Temporary Control Removal

Temporary erosion controls will be left in place until the Project site is stabilized with a uniform vegetative cover of 70 percent density of the native background vegetative cover on all unpaved areas. Following re-vegetation, the permittee will conduct periodic site visits to make sure that vegetation establishment is satisfactory. If sufficient vegetative cover has not been achieved, additional restoration measures will be implemented. Inspection results will be documented using the Inspection and Maintenance Report Form found in the appendix. All temporary soil erosion and sediment control measures will be removed and disposed of after final site stabilization is achieved and before submitting the NOT.

Section 4.0
EROSION CONTROL PLAN APPENDICES

4.0 APPENDICES

Appendix A – Maps and Drawings

- Site Maps
- Site Plans

Appendix B – Inspection and Maintenance Records

- Inspection & Maintenance Log
- Inspection Report
- Maintenance Report

Appendix C – Calculations and Supporting Documentation

**APPENDIX A
MAPS AND DRAWINGS**

Erosion and Sediment Control Plan
 Wind Colebrook South
 Colebrook, Connecticut



Latitude and Longitude

Applicant Name:
(as indicated on the *Permit Application Transmittal Form*)

Method of latitude and longitude determination (check one):

- Global Positioning System (GPS) USGS Map Other (please specify)

In the table below, label each point for which latitude and longitude were measured, being consistent with identification numbers assigned throughout the application (e.g., 100, 101, etc.). For renewals or modifications of existing permits, please provide the existing permit number. Also provide: a brief description of the point (e.g., monitoring well, pipe outlet, air stack, etc.); latitude and longitude in degrees, minutes and seconds (e.g., 41E 16' 29"); and the name of the USGS quadrangle map(s) the points described are located on.



































ID Number	Permit Number	Description	Latitude	Longitude	Quad Map Name	For DEP Use Only: GIS ID
1		Property Centerpoint	41°57'50"N	73°08'46"W		



Web Soil Survey
National Cooperative Soil Survey

9/28/2010
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Soil Map—State of Connecticut
(Wind Colebrook South)

<h3 style="text-align: center;">MAP LEGEND</h3> <p>Area of Interest (AOI)  Area of Interest (AOI)</p> <p>Soils  Soil Map Units</p> <p>Special Point Features</p> <ul style="list-style-type: none">  Blowout  Borrow Pit  Clay Spot  Closed Depression  Gravel Pit  Gravelly Spot  Landfill  Lava Flow  Marsh or swamp  Mine or Quarry  Miscellaneous Water  Perennial Water  Rock Outcrop  Saline Spot  Sandy Spot  Severely Eroded Spot  Sinkhole  Slide or Slip  Sodic Spot  Spoil Area  Stony Spot <p>Special Line Features</p> <ul style="list-style-type: none">  Gully  Short Steep Slope  Other <p>Political Features</p> <ul style="list-style-type: none">  Cities <p>Water Features</p> <ul style="list-style-type: none">  Oceans  Streams and Canals <p>Transportation</p> <ul style="list-style-type: none">  Rails  Interstate Highways  US Routes  Major Roads  Local Roads 	<h3 style="text-align: center;">MAP INFORMATION</h3> <p>Map Scale: 1:4,700 if printed on A size (8.5" × 11") sheet.</p> <p>The soil surveys that comprise your AOI were mapped at 1:12,000.</p> <p>Please rely on the bar scale on each map sheet for accurate map measurements.</p> <p>Source of Map: Natural Resources Conservation Service Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov Coordinate System: UTM Zone 18N NAD83</p> <p>This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.</p> <p>Soil Survey Area: State of Connecticut Survey Area Data: Version 7, Dec 3, 2009</p> <p>Date(s) aerial images were photographed: 8/14/2006</p> <p>The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.</p>
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Map Unit Legend

State of Connecticut (CT600)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
413C	Bice-Millsite complex, 3 to 15 percent slopes, very rocky	20.1	22.0%
413E	Bice-Millsite complex, 15 to 45 percent slopes, very rocky	14.5	15.8%
415C	Westminster-Millsite-Rock outcrop complex, 3 to 15 percent slopes	6.4	7.0%
417B	Bice fine sandy loam, 3 to 8 percent slopes, very stony	8.9	9.7%
417C	Bice fine sandy loam, 8 to 15 percent slopes, very stony	5.5	6.0%
418C	Schroon fine sandy loam, 2 to 15 percent slopes, very stony	8.3	9.0%
425C	Shelburne fine sandy loam, 8 to 15 percent slopes, very stony	2.0	2.2%
426D	Shelburne fine sandy loam, 15 to 35 percent slopes, extremely stony	2.6	2.9%
427C	Ashfield fine sandy loam, 8 to 15 percent slopes, very stony	4.6	5.0%
437	Wonsqueak mucky peat	9.1	9.9%
443	Brayton-Loonmeadow complex, extremely stony	9.5	10.4%
Totals for Area of Interest		91.8	100.0%

CONSTRUCTION SCHEDULE:

1. INSTALL SILT FENCE, INLET PROTECTION, SEDIMENT TRAPS, DIVERSION DITCHES, TREE PROTECTION, AND OTHER MEASURES AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
2. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
3. APPLY SEEDING, TEMPORARY OR PERMANENT, OR OTHER TYPES OF STABILIZATION AS REQUIRED AS SOON AS GRADED AREAS ARE COMPLETE OR WHERE WORK STOPS.
4. COMPLETE FINE GRADING.
5. PREPARE ALL DISTURBED AREAS FOR SEEDING AND GROUND COVER.
6. APPLY PERMANENT SEEDING AND GROUND COVER.
7. AFTER SITE IS STABILIZED AND APPROVALS RECEIVED, ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE REMOVED AND THOSE DISTURBED AREAS SHALL BE SEEDDED.
8. COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURE.
9. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
10. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED.

MAINTENANCE PLAN:

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
2. ALL SEDIMENT CONTROL FEATURES SHALL BE MAINTAINED UNTIL FINAL STABILIZATION HAS BEEN OBTAINED.
3. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES ABOUT 0.5 FEET DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
4. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED, UNLESS ACTIVITY IN THAT PORTION OF THE SITE WILL RESUME WITHIN 21 DAYS.
5. ALL SEEDED AREAS SHALL BE FERTILIZED, RE-SEEDDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATION TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.

TREE PROTECTION NOTES:

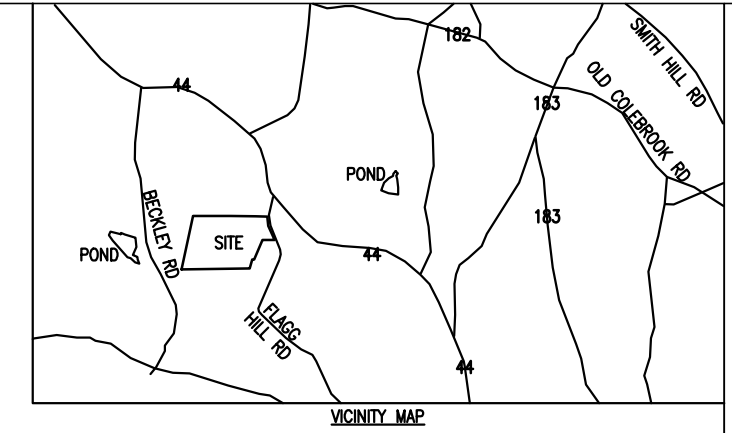
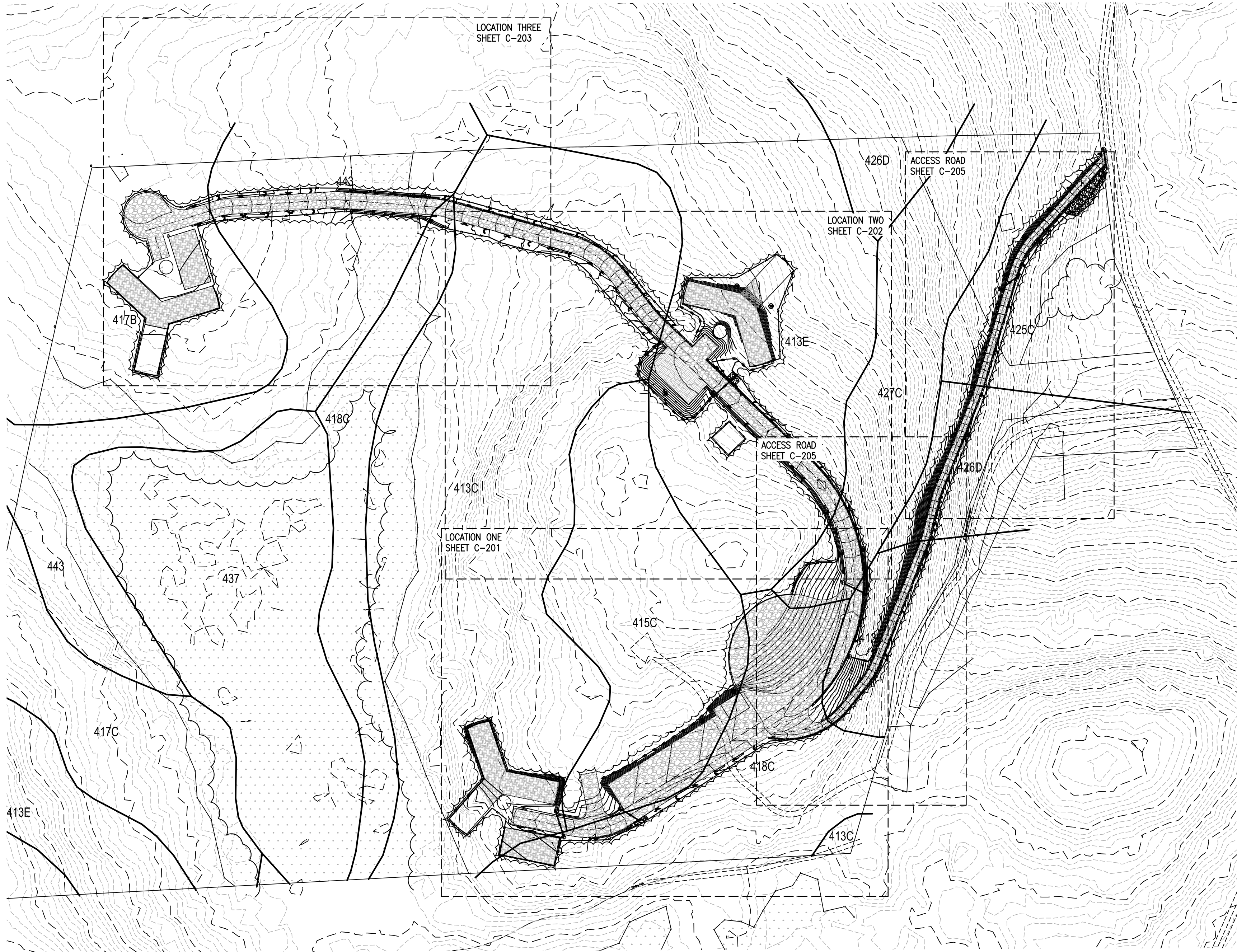
1. TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION, CLEARING, GRADING, OR CONSTRUCTION, AND NOT REMOVED UNTIL AFTER FINAL INSPECTION BY URBAN FORESTRY STAFF.
2. NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBING ACTIVITY ALLOWED IN TREE PROTECTION AREAS, EXCEPT AS SHOWN ON APPROVED PLANS.
3. VIOLATIONS OF TREE PROTECTION REQUIREMENTS ARE SUBJECT TO FINES, AND/OR IMMEDIATE CORRECTIVE ACTION/MITIGATION.
4. NO GRUBBING WITHIN TREE PROTECTION ZONE. LEAVE SPOIL AND LEAF LITTER UNDISTURBED. SUPPLEMENT WITH 1"-2" OF MULCH. RE-SEED WITH GRASS ONLY IN DISTURBED/GRADED AREAS.
5. BRUSH VINES, AND SMALL TREES (8" DIAMETER, OR AS SMALL AS 2" CALIPER) MAY BE HAND CLEARED ONLY AND CUT FLUSH WITH GROUND SURFACE. EXISTING TREES MAY BE LIMBED UP 6'-0" (LEAVING AT LEAST 2/3 OF THE BRANCHES TO IMPROVE VISIBILITY).
6. EXPOSED TREE ROOTS MUST BE CLEANLY CUT WITH A SHARP PRUNING TOOL; BACKFILL AS SOON AS POSSIBLE TO MINIMIZE EXPOSURE TO THE AIR.
7. TREE PROTECTION FENCE IS TO BE LOCATED 1 FOOT PER TREE DIAMETER INCH AWAY FROM THE TREE IN THE SETBACK.

EROSION CONTROL NOTES:

1. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENuded AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE.
2. MAXIMUM GRADED SLOPES ARE 2:1. WHEN STEEPER SLOPES MUST BE USED PLANS MUST BE SEALED BY A GEO-TECHNICAL ENGINEER FOR SLOPE STABILITY AND FINAL SURFACE STABILIZATION.
3. DE-WATERING OF SITE DIRECTLY INTO STREAM, WETLAND OR CREEK IS PROHIBITED.

GENERAL CONSTRUCTION NOTES:

1. ALL CONTOURS AND SPOT ELEVATIONS REFLECT FINISH GRADES.
2. CONTRACTOR SHALL BLEND SMOOTHLY NEW GRADING TO EXISTING GRADE.
3. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER OR ENGINEER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTIONS BEFORE PROCEEDING.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
5. CONTRACTOR SHALL WORK WITH CAUTION DURING EARTHWORK ACTIVITIES NEAR EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPROPRIATE AGENCY FOR FIELD LOCATIONS OF ALL UNDERGROUND UTILITIES BEFORE STARTING CONSTRUCTION.



LEGEND

	84C 84B	SOIL TYPE BOUNDARY
	TD	TEMPORARY DIVERSION DITCH
	S F	SILT FENCE
	TP	TREE PROTECTION FENCE
	HB	STRAW HAY BALES
	C P	CULVERT PIPE/SLOPE DRAIN
		WETLAND LIMITS
		ROCK CHECK DAM
	FLOW	FLOW ARROW
	TS	TEMPORARY SEEDING
		COMPACTED EARTH
		GRAVEL

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
413C	Bice-Milale complex, 3 to 15 percent slopes, very rocky	20.1	22.0%
413E	Bice-Milale complex, 15 to 45 percent slopes, very rocky	14.5	15.8%
415C	Westminster-Milale-Rock outcrop complex, 3 to 15 percent slopes	6.4	7.0%
417B	Bice fine sandy loam, 3 to 8 percent slopes, very stony	8.9	9.7%
417C	Bice fine sandy loam, 8 to 15 percent slopes, very stony	5.5	6.0%
418C	Schroon fine sandy loam, 2 to 15 percent slopes, very stony	8.3	9.0%
425C	Shelburne fine sandy loam, 8 to 15 percent slopes, very stony	2.0	2.2%
426D	Shelburne fine sandy loam, 15 to 35 percent slopes, extremely stony	2.8	2.9%
427C	Ashfield fine sandy loam, 8 to 15 percent slopes, very stony	4.6	5.0%
437	Worsweat mucky peat	9.1	9.9%
443	Brynton-Loommeadow complex, extremely stony	9.5	10.4%
Totals for Area of Interest		91.8	100.0%

TEMPORARY DIRECT WETLAND IMPACT NOT TO EXCEED 4915 SQ. FT. THIS IS LESS THAN THE 5000 SQ. FT. THRESHOLD ESTABLISHED BY APPLICABLE REGULATIONS. APPROPRIATE MITIGATION PROCEDURES AND REQUIRED PERMITS WILL BE OBTAINED PRIOR TO CONSTRUCTION.

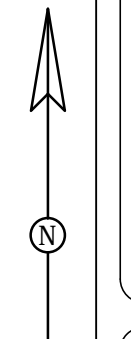
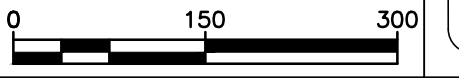
MARK	DESCRIPTION	DATE	APPR.	TLC
1	CONNECTICUT SITING COUNCIL SUBMISSION	11-19-10		

DESIGNED BY:	DATE:	11-19-10
DRAWN BY:	CHKD BY:	TLC
RSW	TLC	
SUBMITTED BY:	BNE ENERGY	
PLOT SCALE:	AS SHOWN	
FILE NUMBER:	1385	
FILE NAME:		
ANSI D		

ZAPATA
 6302 LAWRENCE ROAD
 SUITE 100
 WIND COLEBROOK, CT 06290
 WWW.ZAPATAINC.COM

WIND COLEBROOK SOUTH CONNECTICUT
 OVERALL EROSION CONTROL PLAN

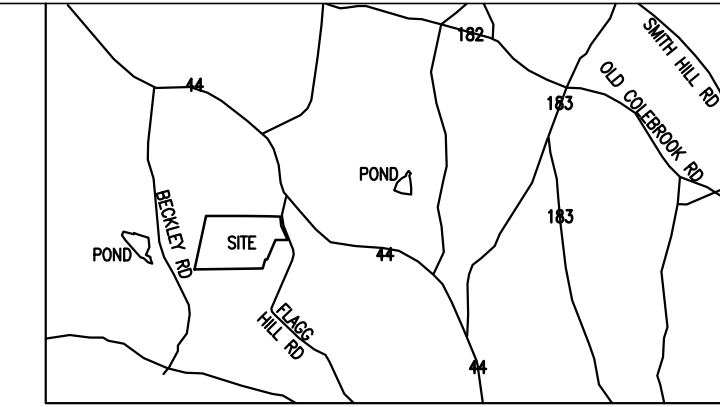
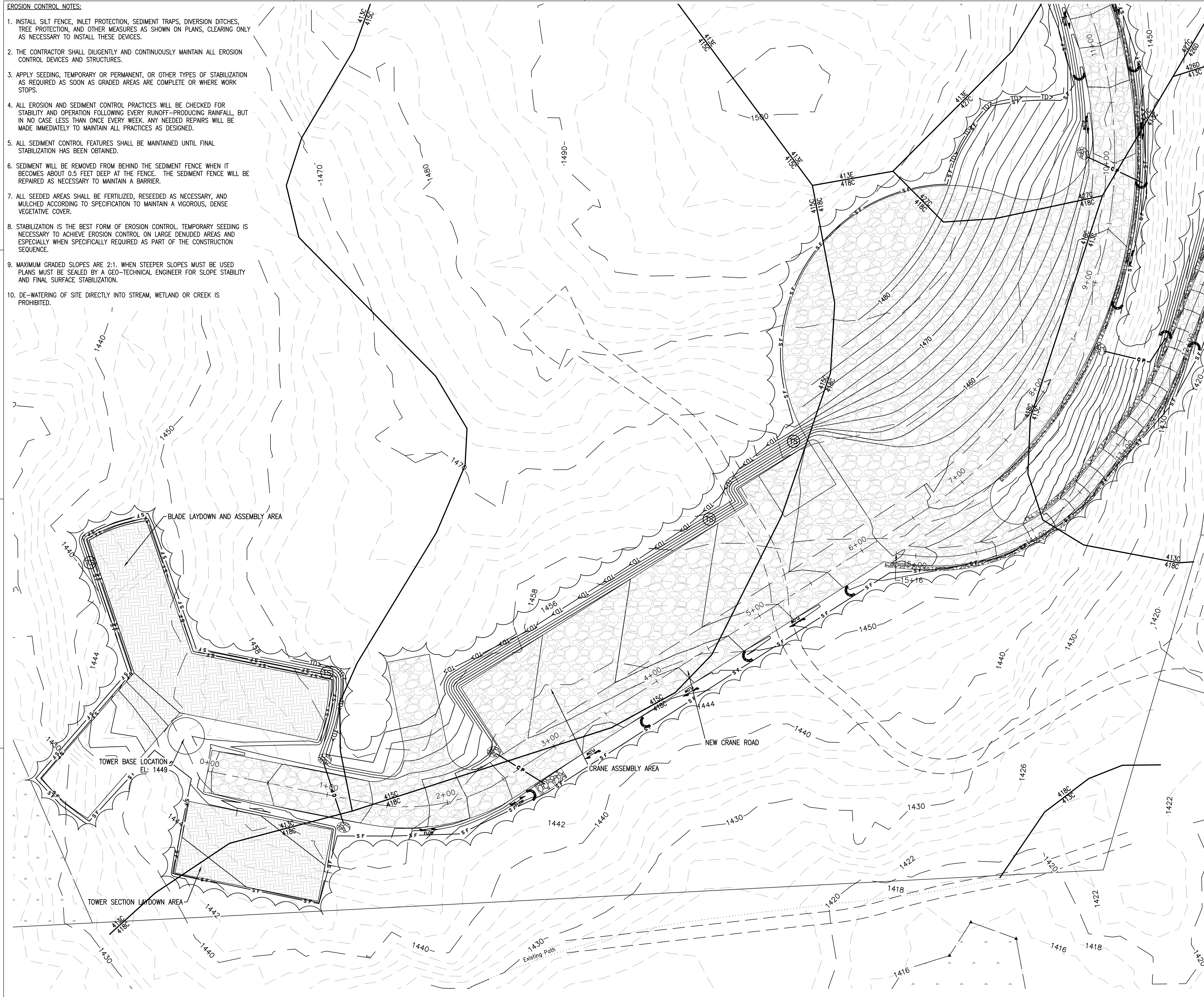
SHEET IDENTIFICATION
C-200



EROSION CONTROL NOTES:

1. INSTALL SILT FENCE, INLET PROTECTION, SEDIMENT TRAPS, DIVERSION DITCHES, TREE PROTECTION, AND OTHER MEASURES AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
2. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
3. APPLY SEEDING, TEMPORARY OR PERMANENT, OR OTHER TYPES OF STABILIZATION AS REQUIRED AS SOON AS GRADED AREAS ARE COMPLETE OR WHERE WORK STOPS.
4. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
5. ALL SEDIMENT CONTROL FEATURES SHALL BE MAINTAINED UNTIL FINAL STABILIZATION HAS BEEN OBTAINED.
6. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES ABOUT 0.5 FEET DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
7. ALL SEEDED AREAS SHALL BE FERTILIZED, RESEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATION TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.
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LEGEND

	84C 84B	SOIL TYPE BOUNDARY
	TD	TEMPORARY DIVERSION DITCH
	S F	SILT FENCE
	TP	TREE PROTECTION FENCE
	HB	STRAW HAY BALES
	C P	CULVERT PIPE/SLOPE DRAIN
		WETLAND LIMITS
		ROCK CHECK DAM
	FLOW	FLOW ARROW
	TS	TEMPORARY SEEDING
		COMPACTED EARTH
		GRAVEL
		RIPRAP

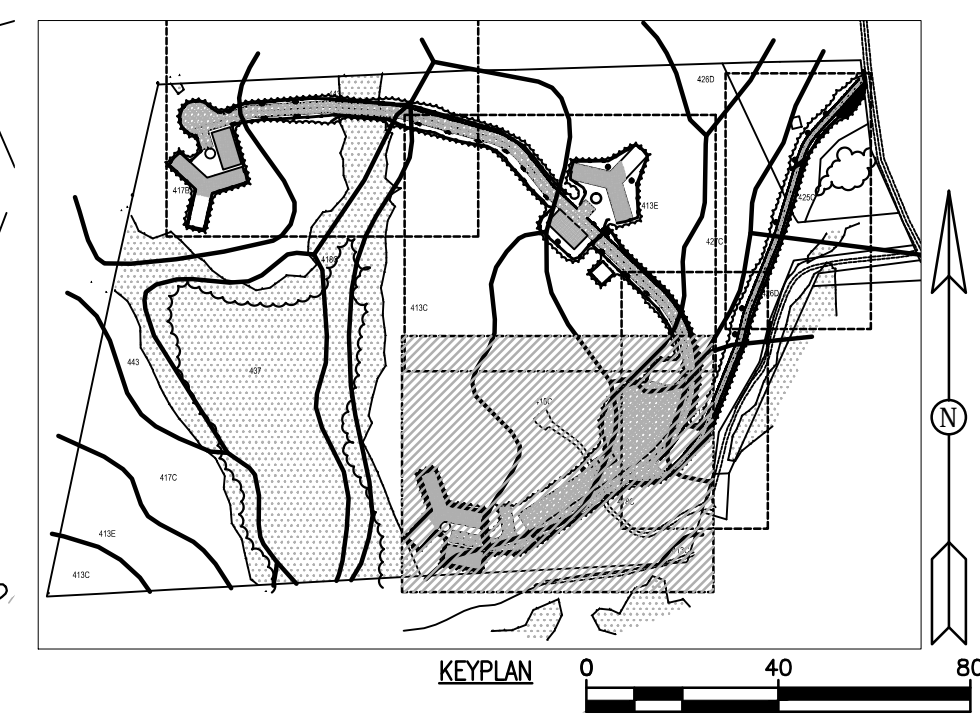
MARK	DESCRIPTION	DATE	APPR.
1	CONNECTICUT SITING COUNCIL SUBMISSION	11-19-10	TLK

DESIGNED BY:	DATE:	11-19-10
DRAWN BY:	CHKD BY:	TLK
RSW	TLK	
SUBMITTED BY:	BNE ENERGY	
PLOT SCALE:	PLOT DATE:	FILE NUMBER:
AS SHOWN	11-19-10	1385
SIZE:	FILE NAME:	
ANSI D		

ZAPATA
 6302 LAWRENCE ROAD, SUITE 200, FARMINGTON, CT 06030
 PHONE: (860) 356-8940
 FAX: (860) 356-8941
 WWW.ZAPATAINC.COM

WIND COLEBROOK SOUTH
 CONNECTICUT
 TURBINE LOCATION ONE AND
 CRANE ASSEMBLY AREA
 EROSION CONTROL PLAN

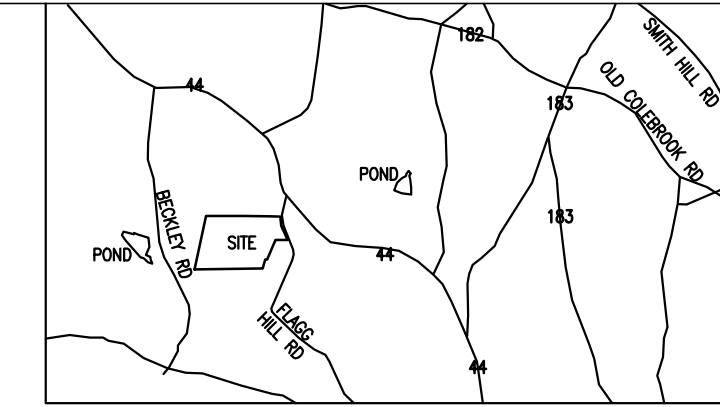
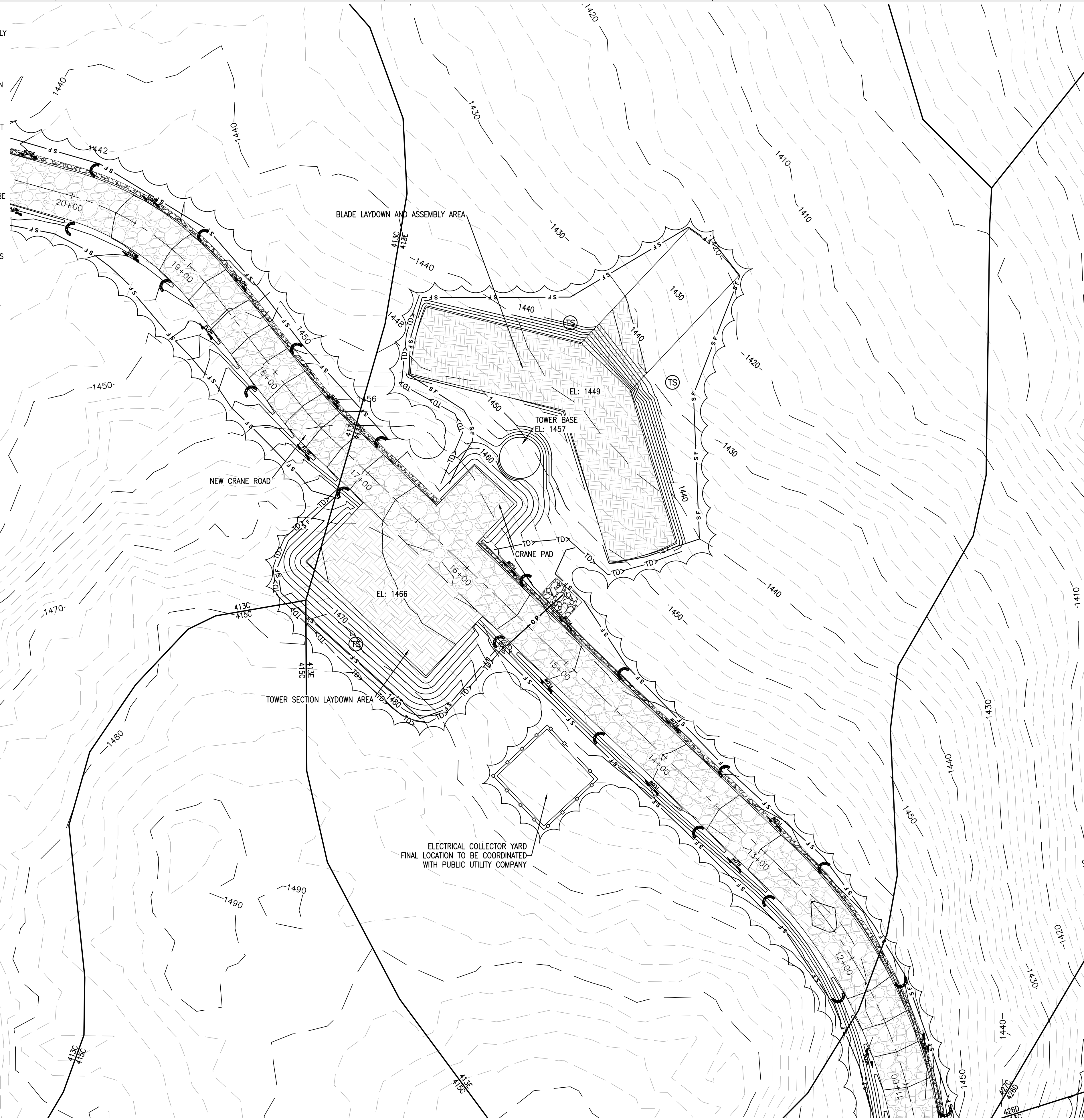
SHEET
 IDENTIFICATION
C-201



NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

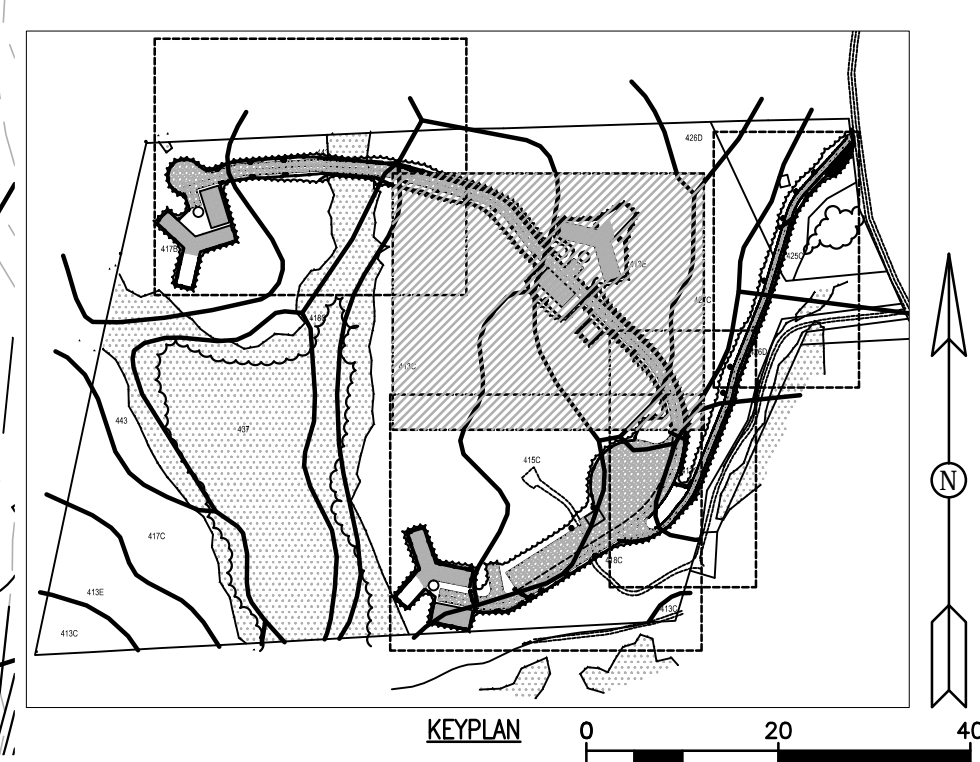
EROSION CONTROL NOTES:

1. INSTALL SILT FENCE, INLET PROTECTION, SEDIMENT TRAPS, DIVERSION DITCHES, TREE PROTECTION, AND OTHER MEASURES AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
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LEGEND

	SOIL TYPE BOUNDARY
	TEMPORARY DIVERSION DITCH
	SILT FENCE
	TREE PROTECTION FENCE
	STRAW HAY BALES
	CULVERT PIPE/SLOPE DRAIN
	WETLAND LIMITS
	ROCK CHECK DAM
	FLOW ARROW
	TEMPORARY SEEDING
	COMPACTED EARTH
	GRAVEL
	RIPRAP



MARK	DESCRIPTION	DATE	APPR.
1	CONNECTICUT SITING COUNCIL SUBMISSION	11-19-10	TLK

DESIGNED BY:	DATE:	11-19-10
DRAWN BY:	CHKD BY:	TLK
RSW	TLK	
SUBMITTED BY:	BNE ENERGY	
PLOT SCALE:	PLOT DATE:	11-19-10
AS SHOWN:	FILE NUMBER:	1385
SIZE:	FILE NAME:	
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ZAPATA
 6302 LAWREN ROAD, SUITE 200, FARMINGTON, CT 06030
 PHONE: (860) 356-8940
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 WWW.ZAPATAINC.COM

WIND COLEBROOK SOUTH
 CONNECTICUT
 TURBINE LOCATION TWO
 EROSION CONTROL PLAN

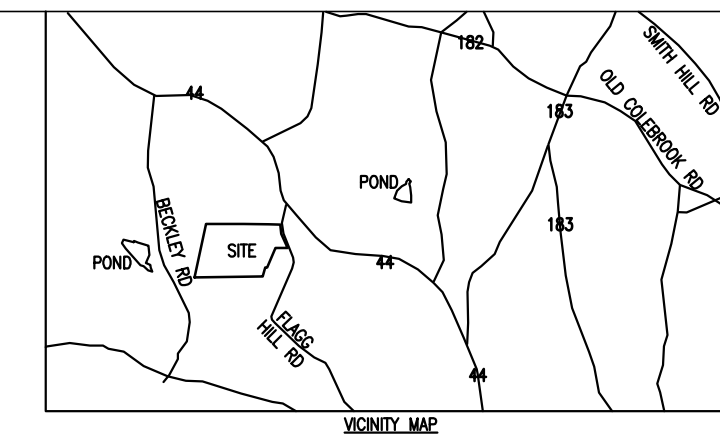
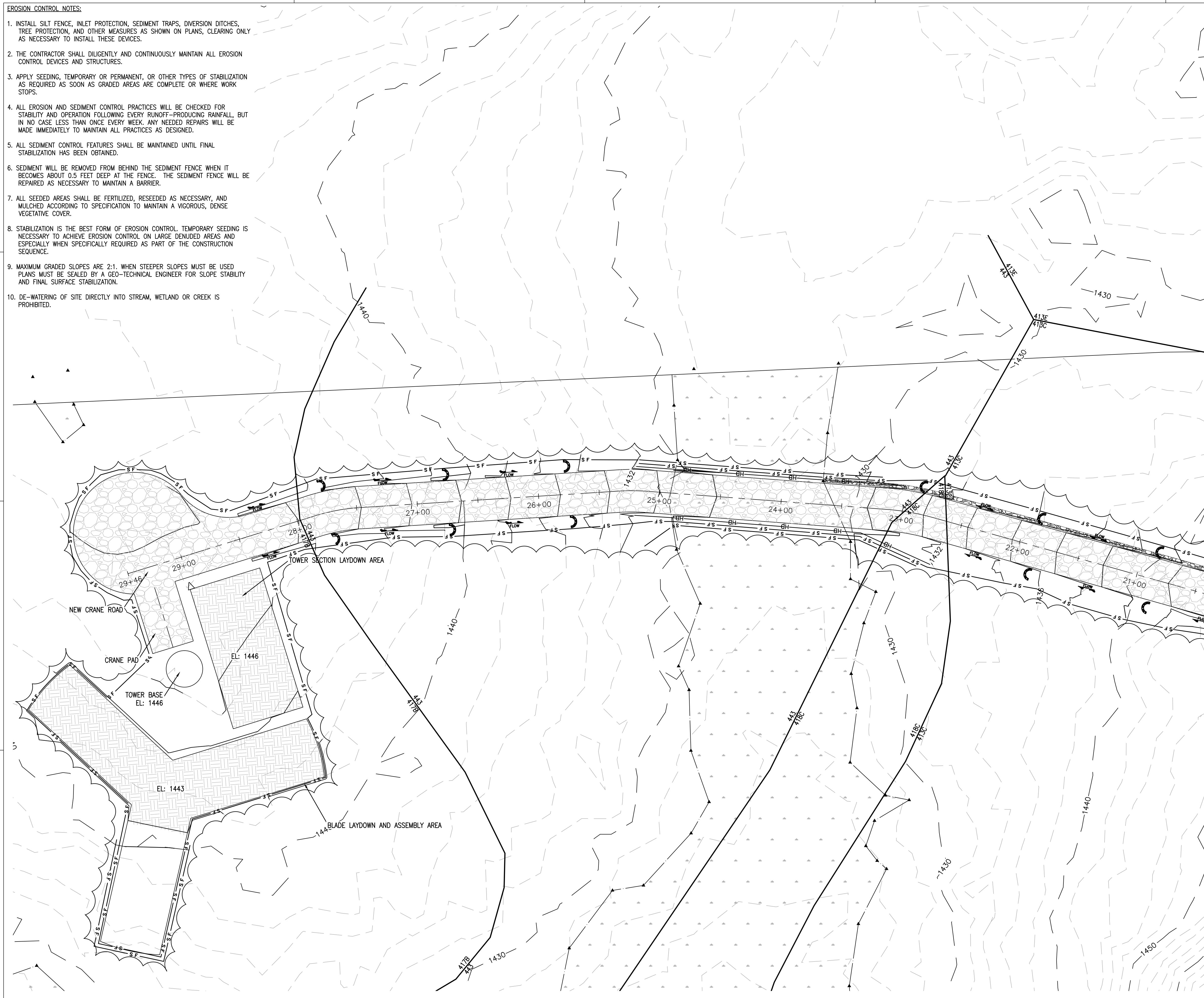
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 IDENTIFICATION
C-202



EROSION CONTROL NOTES:

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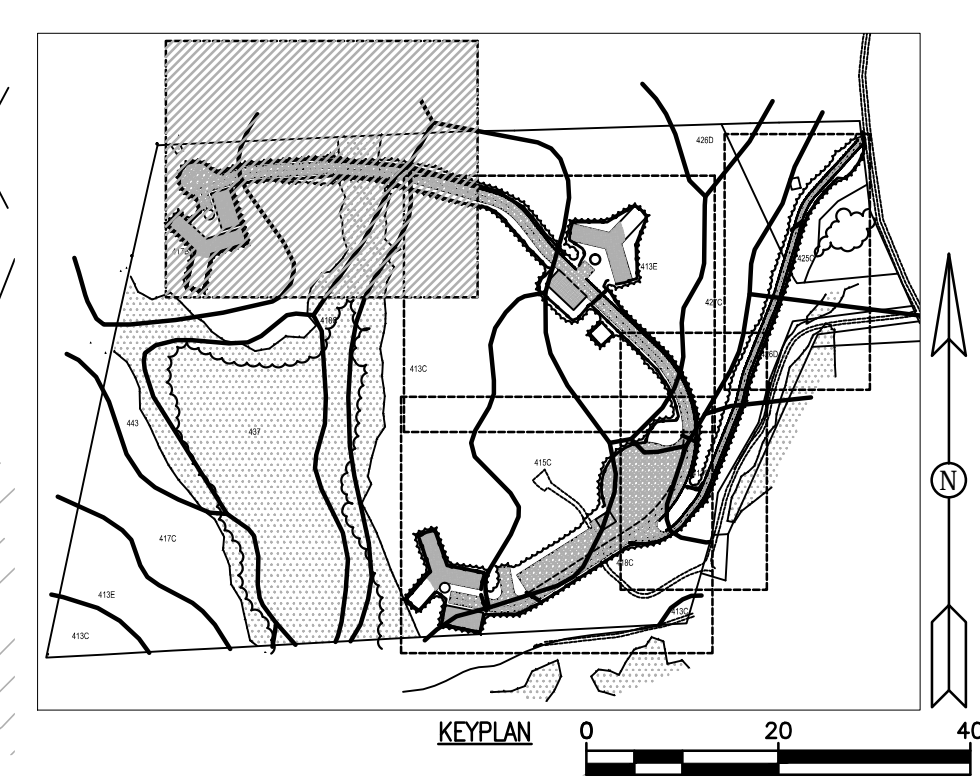
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LEGEND

	SOIL TYPE BOUNDARY
	TEMPORARY DIVERSION DITCH
	SILT FENCE
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	STRAW HAY BALES
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MARK	DESCRIPTION	DATE	APPR.
1	CONNECTICUT SITING COUNCIL SUBMISSION	11-19-10	TLK

DESIGNED BY:	DATE:	11-19-10
DRAWN BY:	CHKD BY:	TLK
RSW	TLK	
SUBMITTED BY:	BNE ENERGY	
PLOT SCALE:	PLOT DATE:	11-19-10
AS SHOWN	FILE NUMBER:	1385
SIZE:	FILE NAME:	
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ZAPATA
 6502 LAWREN ROAD, SUITE 200, WESTPORT, CT 06880
 PHONE: (203) 396-8940
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 WWW.ZAPATAINC.COM

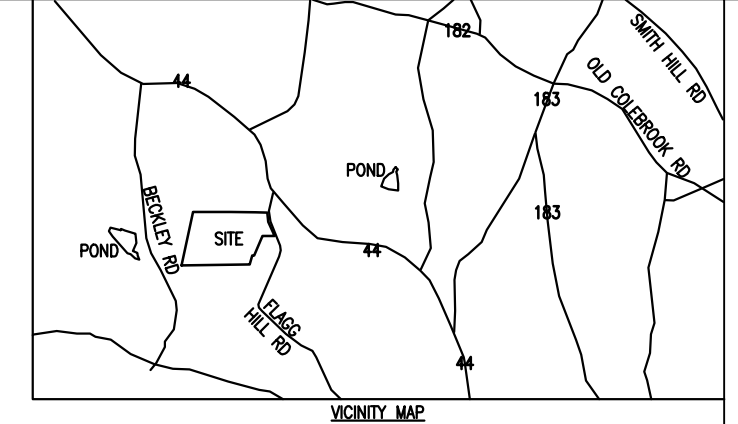
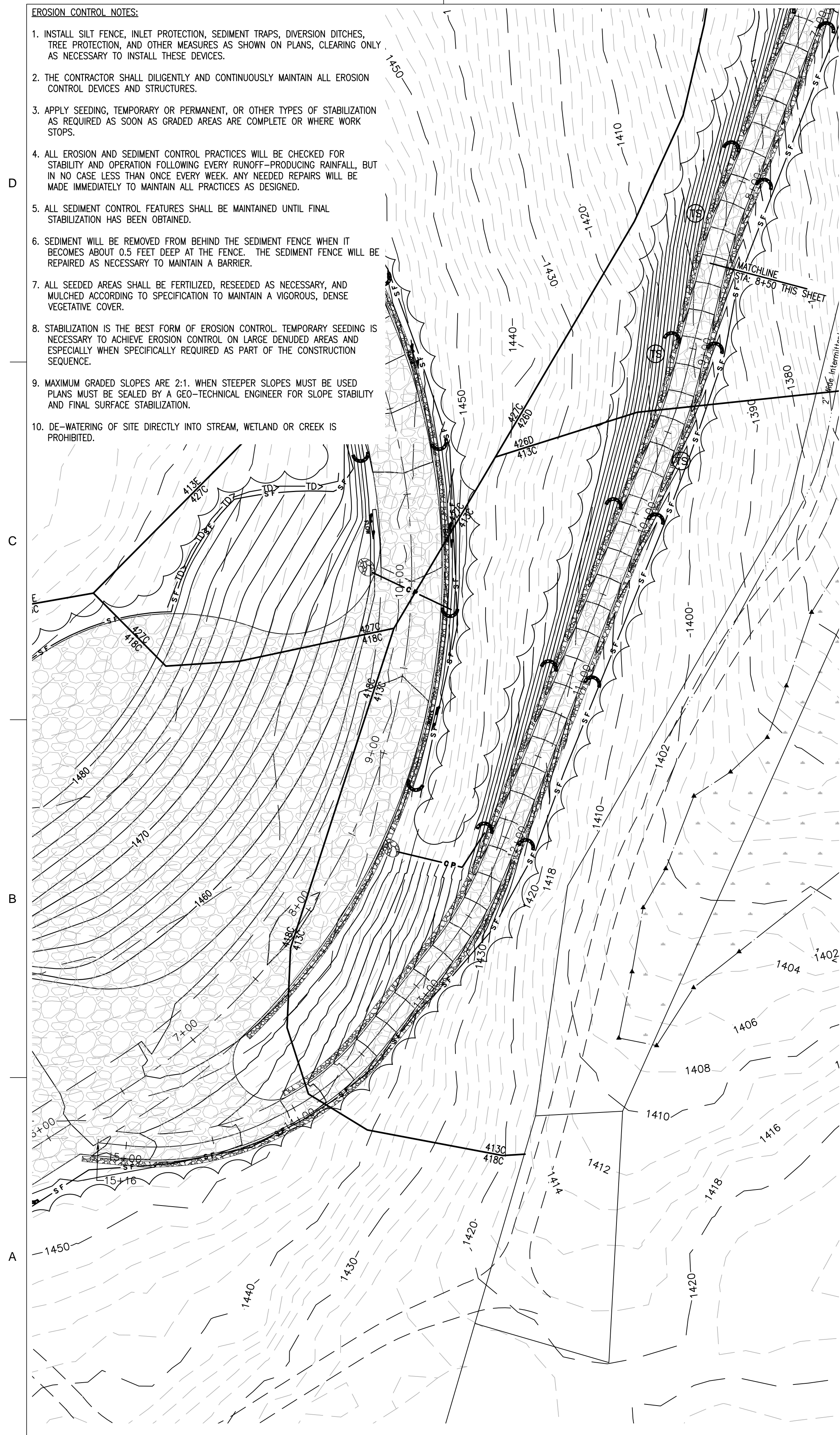
WIND COLEBROOK SOUTH
 CONNECTICUT
 TURBINE LOCATION THREE
 EROSION CONTROL PLAN

SHEET
 IDENTIFICATION
C-203



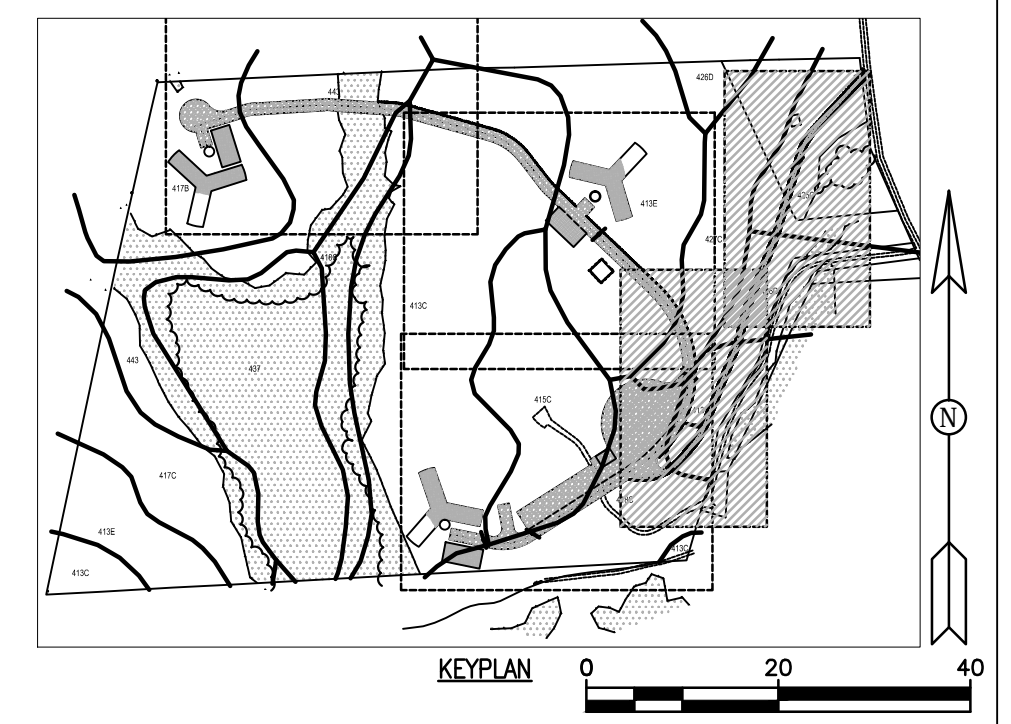
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LEGEND

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	TREE PROTECTION FENCE
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	COMPACTED EARTH
	GRAVEL
	RIPRAP



MARK	DESCRIPTION	DATE	APPR.
1	CONNECTICUT SITING COUNCIL SUBMISSION	11-18-10	TLK

DESIGNED BY:	DATE:
DRAWN BY:	11-18-10
RSW	
TLK	
SUBMITTED BY:	FILE NUMBER:
BNE ENERGY	1385
PLOT SCALE:	FILE DATE:
AS SHOWN	11-18-10
SIZE:	FILE NAME:
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ZAPATA
 6302 LAWRENCE ROAD, SUITE 300, WESTPORT, CT 06880
 TEL: 860.439.3440
 FAX: 860.439.3441
 WWW.ZAPATAINC.COM

WIND COLEBROOK SOUTH
 CONNECTICUT
 ACCESS ROAD STA. 0+00 TO 15+16
 EROSION CONTROL PLAN

SHEET
 IDENTIFICATION
C-204



NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

**APPENDIX B
INSPECTION AND MAINTENANCE RECORDS**

INSPECTOR CERTIFICATION

Project:	Wind Colebrook South
Project Location:	29 Flagg Hill Road Colebrook, Connecticut
Contractor:	
Address:	
Phone:	
Fax:	

CONSTRUCTION INSPECTION & MAINTENANCE LOG

Date	Activity	Description	(1) Report No.
	<input type="checkbox"/> Inspection <input type="checkbox"/> Maintenance	By: _____	
	<input type="checkbox"/> Inspection <input type="checkbox"/> Maintenance	By: _____	
	<input type="checkbox"/> Inspection <input type="checkbox"/> Maintenance	By: _____	
	<input type="checkbox"/> Inspection <input type="checkbox"/> Maintenance	By: _____	
	<input type="checkbox"/> Inspection <input type="checkbox"/> Maintenance	By: _____	
	<input type="checkbox"/> Inspection <input type="checkbox"/> Maintenance	By: _____	
	<input type="checkbox"/> Inspection <input type="checkbox"/> Maintenance	By: _____	
	<input type="checkbox"/> Inspection <input type="checkbox"/> Maintenance	By: _____	
	<input type="checkbox"/> Inspection <input type="checkbox"/> Maintenance	By: _____	
	<input type="checkbox"/> Inspection <input type="checkbox"/> Maintenance	By: _____	

CONSTRUCTION SITE INSPECTION REPORT

General Information			
Project Name:	Wind Colebrook South		
Location:	29 Flagg Hill Road Colebrook, Connecticut		
CT DEP Tracking No.		(1) Report No.	
Date of Inspection:		Start / End Time:	
Inspector's Name(s):			
Inspector's Title(s):			
Inspector's Contact Information:			
Describe present phase of construction:			
Type of Inspection: <input type="checkbox"/> Regular <input type="checkbox"/> Pre-storm event <input type="checkbox"/> During storm event <input type="checkbox"/> Post-storm event			
Weather Information			
Has it rained since the last inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No			
If yes, provide: Storm Start Date & Time: Storm Duration (hrs): Approximate Rainfall (in):			
Weather at time of this inspection?			
Discharge Information (A)			
Do you suspect that discharges may have occurred since the last inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Are there any discharges at the time of inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Describe location of any discharges from the site:			

SITE-SPECIFIC BMPs

(B)	BMP Description	BMP Installed and Operating Properly?	Corrective Action Needed	Date for corrective action / responsible party
1		<input type="checkbox"/> Yes <input type="checkbox"/> No		
2		<input type="checkbox"/> Yes <input type="checkbox"/> No		
3		<input type="checkbox"/> Yes <input type="checkbox"/> No		
4		<input type="checkbox"/> Yes <input type="checkbox"/> No		
5		<input type="checkbox"/> Yes <input type="checkbox"/> No		
6		<input type="checkbox"/> Yes <input type="checkbox"/> No		
7		<input type="checkbox"/> Yes <input type="checkbox"/> No		
8		<input type="checkbox"/> Yes <input type="checkbox"/> No		
9		<input type="checkbox"/> Yes <input type="checkbox"/> No		
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13		<input type="checkbox"/> Yes <input type="checkbox"/> No		
14		<input type="checkbox"/> Yes <input type="checkbox"/> No		
15		<input type="checkbox"/> Yes <input type="checkbox"/> No		
16		<input type="checkbox"/> Yes <input type="checkbox"/> No		
17		<input type="checkbox"/> Yes <input type="checkbox"/> No		
18		<input type="checkbox"/> Yes <input type="checkbox"/> No		
19		<input type="checkbox"/> Yes <input type="checkbox"/> No		

OVERALL SITE ISSUES

(C)	BMP/activity	Implemented?	Maintained?	Corrective Action	Date for corrective action/responsible person
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
4	Are discharge points and receiving waters free of sediment deposits?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
5	Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
6	Is there evidence of sediment being tracked into the street?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
7	Is trash/litter from work areas collected and placed in covered	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		

(C)	BMP/activity	Implemented?	Maintained?	Corrective Action	Date for corrective action/responsible person
	dumpsters?				
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
10	Are materials that are potential stormwater contaminants stored inside or under cover?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
11	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
12	(Other)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
13	(Other)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		

(C)	BMP/activity	Implemented?	Maintained?	Corrective Action	Date for corrective action/responsible person

GENERAL INSPECTION COMMENTS AND EXPLANATION

General Inspection Comments (D)
Is other descriptive information attached to this inspection report? <input type="checkbox"/> Yes <input type="checkbox"/> No

Plan Information (E)
Were all current plan BMP's in place at the time of inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No
Are additional BMP's required? <input type="checkbox"/> Yes <input type="checkbox"/> No
Does the plan need to be updated? <input type="checkbox"/> Yes <input type="checkbox"/> No
Explanation of additional BMP and Plan update requirements:

Certification statement:

I certify that I have thoroughly and completely reviewed the Stormwater Pollution Control Plan for the site. I further certify, based on such review and in my professional judgment, that the Stormwater Pollution Control Plan has been prepared in accordance with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, and the conditions for the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities issued on October 1, 2002 (or as reissued or modified), and the controls required for such Plan are appropriate for the site. I am aware that there are significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements.

Name: _____

(Please print)

Signature: _____

Title: _____ Date: _____

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CONSTRUCTION SITE MAINTENANCE REPORT

General Information			
Project Name:	Wind Colebrook South		
Location:	29 Flagg Hill Road Colebrook, Connecticut		
CT DEP Tracking No.:		(1)	Report No.
Date of Maintenance:		Start / End Time:	
Describe present phase of construction:			
Type of Maintenance:			
<input type="checkbox"/> Regular <input type="checkbox"/> Pre-storm event <input type="checkbox"/> Post-storm event <input type="checkbox"/> Plan Update			
Maintenance Information			
Inspection Report Reference (No., Item)	Maintenance performed:		
Performed by:			
Inspection Report Reference (No., Item)	Maintenance performed:		
Performed by:			
Inspection Report Reference (No., Item)	Maintenance performed:		
Performed by:			
Inspection Report Reference (No., Item)	Maintenance performed:		
Performed by:			
Inspection Report Reference (No., Item)	Maintenance performed:		
Performed by:			

Inspection Report Reference (No., Item)	Maintenance performed:
Performed by:	
Inspection Report Reference (No., Item)	Maintenance performed:
Performed by:	
Inspection Report Reference (No., Item)	Maintenance performed:
Performed by:	
Inspection Report Reference (No., Item)	Maintenance performed:
Performed by:	
Inspection Report Reference (No., Item)	Maintenance performed:
Performed by:	
Inspection Report Reference (No., Item)	Maintenance performed:
Performed by:	
Inspection Report Reference (No., Item)	Maintenance performed:
Performed by:	

Certification statement:

I certify that I have thoroughly and completely reviewed the Stormwater Pollution Control Plan for the site. I further certify, based on such review and in my professional judgment, that the Stormwater Pollution Control Plan has been prepared in accordance with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, and the conditions for the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities issued on October 1, 2002 (or as reissued or modified), and the controls required for such Plan are appropriate for the site. I am aware that there are significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements.

Name: _____

Signature: _____

Title: _____ Date: _____

APPENDIX C
CALCULATIONS AND SUPPORTING DOCUMENTATION



PROJECT Wind Colebrook South PROJECT NO. 1355
 BY SKL DATE 10/25/10
 CK BY [Signature] DATE 10/25/10
 SHEET 1 OF 4

Water Quality Sediment Loading
 From SB-1

Woods 61.25×1.2
 $= 13.85 \text{ Tons YR}$

Construction 10.75×50
 537.5 Tons YR

TOTAL = 551.35

Delivery Ratio
 $\frac{80}{43560} = 0.125 \text{ mi}^2$

Probable Soil Sandy loam (see map)

DR RATIO = 0.64 interpolated from (SR-2)

$\gamma = 95$ from SB-2

$V = \frac{(KVA) DR (TEL) (2000)}{\gamma (43560)} = \frac{(551.35) (.64) (.80) (2000)}{(95) (43560)}$

$= 0.128$

WET Storage Volume = $2V = A(.128) = .255 \text{ AC FT}$
 $= 11143 \text{ FT}^3$

DEPTH of WATER 1'
 Surface Area = 5571 or 75×75



PROJECT Wind Colebrook PROJECT NO. 1355
 BY Snell DATE 10-19-10
 CK BY [Signature] DATE 10/25/10
 SHEET 2 OF 4

① $150 \times 200 = 30000$

Water Qual

$.55 \text{ Ac} \times .2 = .11$
 $.138 \times 50 = 6.9$

TOTAL = 7.01

Delivery Ratio = $\frac{.70}{640} = .0011$

DR Ratio = 100%
 $\gamma = 95$

$V = \frac{(7.01)(.40)(.80)(2000)}{95(43560)}$

$V = .0016$

Storage = $2V = .0032 \text{ Ac-Ft}$
 141 Cu Ft

2' depth = $70 \text{ Ft}^2 \hookrightarrow 8 \times 8$



PROJECT Wind - Colebrook S PROJECT NO. 1355
 BY G. Miller DATE 10/10/10
 CK BY [Signature] DATE 10/25/10
 SHEET 3 OF 4

2/3	225 x 450 =	2.32 AC		
SBI	woods =	0.80 x .2	0.372	
	Const.	0.40 x .50	.23	
		Total =	23.372	
	De =	$\frac{2.32}{640}$	= 0.0036	
	De Ratio =	60%		
	K =	95		
	V =	$\frac{(23.372)(.60)(.60)(2000)}{(95)(43560)}$	= .005	
	Storage = 2V =	.0108	Ac-ft	
		472	ft ³	
	2' depth =	236	ft ²	



PROJECT Wind Colebrook S PROJECT NO. 1355
 BY Smith DATE 10-19-10
 CK BY [Signature] DATE 10/25/10
 SHEET 4 OF 4

4) $1125 \times 450 = 11,625$

woods	8.14	$\times 2$	=	16.28
const.	3.48	$\times 50$	=	174
Total				175.62

Disturbance Ratio = $\frac{11,625}{640} = .018$

DR Ratio = 60%
 $\lambda = 95$

$V = \frac{(175.62)(.60)(.018)(2000)}{(95)(43560)} = .040$

Volume = $2V = .081 \text{ AC-FT}$
 $3549 = \text{FT}^3$

2' depth = 1774 FT^2 or 42×42