

Redding Conservation Commission

Redding, Connecticut 06875

1/31/94

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EXHIBIT B

APPENDIX

INLAND WETLANDS AND WATERCOURSES APPLICATION FORM

The Commission and/or its authorized agent will check all items on the following list that are required.

I. MAPPING

All maps/plans/detail sheets shall show in the lower right hand corner: title block showing name of project; name and signature of surveyor or engineer who prepared map; scale; date and revision block; sheet or page number. All maps and plans shall show north arrow and legends. The Subdivision Map and Site Development Plan shall show a vicinity sketch in the upper right hand corner. The Site Development Map or record map shall show a signature block in the lower right quadrant.

A. **CLASS A-2 SURVEY** prepared and signed by a Land Surveyor licensed by the State of Connecticut.

B. **EXISTING CONDITIONS MAP(S)**.

Use 2 foot contours drawn to a scale of 1" = 100 ft., the horizontal control of which is based upon a Class A-2 survey on file in the Office of the Town Clerk and the vertical control of elevation and sounding which is based upon National Geodetic Vertical Datum (NGVD) and the Connecticut Coordinate System. Maps shall be prepared, signed and sealed by a Land Surveyor, and/or professional engineer licensed by the State of Connecticut, and soil scientist where applicable.

1. Location of wetlands by flag numbers as surveyed, flagged and numbered in the field by a Soil Scientist. Include total acreage of wetlands. Wetland flag numbers to be marked in the field with indelible marker.
2. Location of all watercourses, as defined in Section 2.32 of the Regulations.
3. Delineation of U.S. Department of Agriculture soil types as certified by a Soil Scientist and keyed to the Soils Report required under Number II.C.1 of this Appendix.
4. Wetland map legend to include soils designated as poorly drained; very poorly drained; alluvial flood plain.
5. Location of all on-site local and regional watershed boundaries.

6. Location of primary stratified drift aquifers. Locate by using Town Aquifer Map unless more precisely defined by a topographic and soils survey.
7. Location of known bedrock faults and/or fractures. Locate by using Town Fracture Map or by consulting a qualified geologist.
8. Location of existing roads, driveways, trails, utility lines, structures, sewage disposal systems, wells, easements and rights of ways.
9. Location of items 1 through 8 shall be mapped for the entire site and 200 feet beyond the perimeter of the property line (including across all roads). Wetlands, Watercourses and soil types may be located by using SCS Maps or aerial photo analysis.
10. The contour elevations of the 100-year frequency flood line delineated in the Flood Insurance Study according to the most recent FEMA information and adjusted to fit the contour elevations of the property.
11. Location of natural physical features such as rock outcrops, rock ledges, stone walls, and significant vegetation types including trees over 18" diameter breast height (measured four feet above ground level).
12. Indicate, by appropriate shading, all slopes of 15-20% and those in excess of 20%.

- C. **SITE DEVELOPMENT PLAN(S)** prepared, signed and sealed by a Professional Engineer (P.E.). Use 2 foot contours as in Section 1B and latest revision dates with each revision listed.

Blue line (diaz prints) drawn at a scale of 1" = 100' to show entire property. Contours, wetlands and watercourses shall be mapped for the entire site and 200 feet beyond the property line (including across all roads). Mylar overlay(s) may be required.

Blue line (diaz prints) drawn at a scale of 1" = 40'. Mylar overlay(s) may be required.

One composite of Blue line (diaz prints) drawn at a scale of 1" = 40' to show the entire property.

1. Location of proposed Open Space and Easements, both positive and negative, state the number of acres in each.
2. Location of all existing roads, trails, utility lines, easements, rights of way and stone walls.

3. Location of wetlands and watercourses. State number of acres of wetlands on each lot and number of acres to be disturbed.
4. Location of proposed roads, lot lines, buildings, driveways, sewage disposal systems, infiltration systems, and water supply wells. Drawings and cross sections to be given on Detail Sheets. Include the number of acres in each lot. Give amount of acreage or square feet of impermeable surfaces.
5. Location of all soil deep test pits and percolation test holes keyed to field numbers. Deep test pipes to be marked in field with indelible marker.
6. Location of all proposed waste treatment facilities, including outfalls and connecting lines where applicable.
7. Location of all proposed and existing drainage structures such as culverts, catch basins, infiltration systems, detention basins, channels and proposed diversions. Drawings and cross sections to be given on Detail Sheets including calculations prepared by professional engineer.
8. Proposed grading of any moved material, using two foot contours.
9. Location, amount of acreage, and volume in cubic yards of all proposed cuts and fills.
10. Location and type of erosion and sedimentation controls planned to stabilize site during and after construction. Drawings and cross sections to be given on Detail Sheets.

D. SUBDIVISION MAP(S) as required by The Redding Subdivision Regulations.

II. REPORTS

All reports shall be securely bound for convenient use and shall be indexed with Table of Contents, consecutive page numbers, and latest Revision Dates with each revision listed by page number on a cover sheet. Revisions shall be noted in right-hand margin next to the revision using a triangular symbol with revision number inside symbol i.e.,



A. ENGINEERING REPORT. To be prepared and certified by a Professional Engineer. Include the following:

1. Description of all proposed activity stating the manner in which material will be deposited or removed, and/or in which any structure will be erected, and/or in which any use will be carried out.

2. Description, including square footage, depth and slope, of areas where material will be deposited or excavated (including temporary stockpiles) and the volumes in cubic yards in each case and the nature of such material (e.g., sand, gravel, loam, building materials, etc.), including the method of excavation and the time of year.
3. Description of all existing and proposed stormwater management systems such as structures, culverts, infiltration systems, catch basins, detention basins, rip-rap channels and proposed diversions.
4. Existing and proposed peak rates of surface run-off for each watershed within the property and for each stormwater management system.
5. Specific sediment and erosion control plans including explanation of how affected property is to be protected from the erosion or leaching of deposited or excavated materials.
6. Name of person responsible for implementation and maintenance of sediment and erosion controls.
7. Description of faults and/or fractures shown on the map prepared in accordance with Number I.B.7.
8. Specific description of soils found in each deep test, giving depth to mottling, first appearance of water, groundwater level, depth to bedrock, type of bedrock and percolation rates of all perc tests performed, with dates and climatic conditions at times of testing.
9. Description of sanitary disposal systems. Estimated quantity of sewage effluent to be discharged in gallons per day per acre.
10. The effluent renovation and the hydrogeology of the site shall be evaluated. The evaluation shall be in conformance with the published criteria used by the Connecticut Department of Environmental Protection
11. Effect of blasting, if anticipated, using seismographic measurement and giving depth and cubic yards.
12. Precise chemical composition of any toxic materials, identified by E.P.A. listing, to be used or deposited on the site and whether they are to be enclosed in containers of any type or deposited openly without containment.
13. The effect of a subsurface waste disposal system, storm drainage and all other proposed construction or use upon a wetland, watercourse or aquifer, including those off-site which are within 200' of the property line.
14. Planting and re-vegetation plans.

- B. HYDROLOGIC REPORT.** To be prepared by a qualified hydrologist and to include the following:
1. Area and description of watersheds, aquifers and proposed diversions on the project site or affected by the proposed activities.
 2. Description of how on-site wetlands, watercourses, and aquifers in question affect the local and regional area watershed or watersheds.
 3. Water quality analysis by a state certified laboratory, using appropriate water quality parameters and describing impact of project thereon.
 4. Groundwater recharge, both present and anticipated, giving method of calculation.
 5. Calculations for present and proposed flow velocities in feet per second and flow rate in cubic feet per second of all watercourses, watersheds and stormwater management systems, both pre-development and post-development.
- C. SOILS REPORT.** To be prepared and certified by a soils scientist and to include the following:
1. Soil types and location of wetlands and watercourses keyed to the soil sample locations shown on the map prepared in accordance with Number I.B.3.
 2. Depth of water table and how depth was determined.
 3. Dates and climatic conditions at the times of inspection.
- D. BIOLOGIC REPORT.** To be prepared and certified by an ecologist (a person having a Masters degree in an earth or environmental science) and to include the following:
1. Biologic evaluation of any wetland or watercourse on the affected property.
 2. Dominant botanical species, rare species and forest age classes of flora.
 3. Habitat value of the affected property for all wildlife species.