

EROSION & SEDIMENTATION CONTROL AND LANDSCAPE SENSITIVITY

GENERAL
A rapid, well ordered construction process resulting in surfaces being disturbed for the minimum amount of time possible shall be the primary erosion control methodology utilized at this site.

Preventing the concentration of runoff will decrease erosion. The surface of Newtown Road is directly tributary to wetlands and earthen products shall not reach its surface.

ACCESS TO SITE
Access shall be established at the location of the proposed driveway and a thirty (30) foot long tracking pad, or temporary construction entrance, shall be installed once that section of the driveway is graded to subgrade.

The driveway crosses a shallow swale and runoff from the swale shall flow through the tracking pad, or the driveway cross drain shown on the plans shall be installed immediately.

The tracking pad shall be maintained and replaced as necessary to insure that no earthen products reach Newtown Road.

CLEARING
Prior to any clearing, except as necessary to obtain safe access to the site, the limit of work shall be demarcated and the Conservation Administrator notified.

Clearing within the 50 foot buffer to the wetlands is prohibited.

Felled trees shall be removed from the site during the work week in which they are felled, and limbs and brush shall be chipped to allow materials required for erosion control and stabilization to be generated on site.

Stumps shall be removed from the site during the work week they are generated.

EROSION CONTROL BARRIERS
The erosion control barriers to be installed shown on the plan should be considered the minimum required and shall be supplemented if construction procedures that limit the potential for erosion are not implemented.

The barriers shall be installed prior to any site grading and shall be properly maintained and replaced as required to insure their effectiveness.

Any products of erosion entrapped in the barriers shall be promptly removed and their source abated.

GRADING
It is during this portion of the construction process that the site will be most prone to erosion.

The driveway must be located over 75 feet from the wetlands. It can be located to limit disturbance of large trees and care should be taken during the grading operation to limit the disturbance of roots and the compaction of soil over roots.

Erosion barriers should be placed at areas that are tributary to a single point such as the shallow swale along the driveway, about 100 feet from Newtown Road, or other devices such as check dams or berms should be placed to intercept flow.

The driveway will also be graded to flow to the rear of the house and construction of the leaching area will require equipment and materials to move through this area. Grading shall result in the dispersal of runoff over a broad area, even if erosion barriers are in place. It is recommended that the surface of the driveway and the area up to the point where the lot lines are 22 feet apart be hardened by the placement of trap rock, and that special vigilance be given to maintaining the erosion barriers until all surfaces are erosion resistant.

Only limited grading shall be performed in the area east of the house, and shall result in runoff being uniformly distributed at all times.

All topsoil shall be retained and stockpiled so that materials are not subject to erosion and do not interfere with or concentrate runoff.

CONSTRUCTION OF LEACHING AREA
The leaching area and necessary fill are over 100 feet from wetlands, but equipment and materials used in its construction must pass about 75 feet from wetlands. The leaching area construction should precede the house construction to allow staging in the area of the house, and should be completed in two weeks. Completion shall include the stabilization of all surfaces.

The area of the leaching system should be seeded with meadow grass as it must be maintained free of brush and trees. Wood chips/bark mulch is recommended for the force main route.

HOUSE CONSTRUCTION
The foundation shall be excavated, poured, stripped, and backfilled within 10 working days. Excavated materials shall be stored so that they do not concentrate runoff.

The area to the south of the house shall be graded smooth so that runoff is dispersed and, with the exception of areas within 15 feet of the house, all disturbed areas shall be made erosion resistant. If the establishment of permanent vegetation is not possible, the area shall be planted with quick germination/temporary cover material.

House construction materials and equipment shall be stored in close proximity to the structure on its west and south sides.

The site shall be kept free of litter and debris and containers shall be kept on site and properly maintained. Liquids shall not be placed in the containers.

RECHARGE SYSTEMS
Recharge systems consisting of a dripline recharge trench, a driveway recharge trench, and a chamber system are proposed to decrease runoff from the site. The effectiveness of these devices will be impaired if products of erosion enter the recharge works. Care should be taken to protect the recharge devices from the entrance of silt laden runoff.

STABILIZATION OF SURFACES
Stabilization shall be an ongoing process and shall not be delayed until final landscaping.

Site construction should be phased, as possible, to allow plantings to occur during optimum periods - April 15 to June 15 and August 15 to October 15 for lawns.

Loam has a high erosion potential and should not be spread when seeding and germination are not expected to promptly occur.

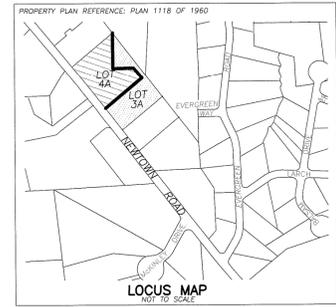
REMOVAL OF EROSION BARRIERS
The project will not be considered complete until all erosion barriers and products of erosion are removed and all surfaces are in an erosion resistant state.

GENERAL NOTES:

- Plans were prepared for named client and project. Reproduction in whole, in part or by adaptation for other purposes is expressly prohibited.
- Drawings shall not be scaled. If clarification of intent is REQUIRED, contractor shall obtain prompt clarification prior to continuing work.
- Contractor shall visit site prior to initiation of work and shall notify ACTON SURVEY & ENGINEERING, INC. and owner of any discrepancies with site conditions, or proposed construction, on date discovered.
- Contractor shall be responsible for coordinating proposed construction with existing conditions.
- Contractor shall notify Dig-Safe [1-888-344-7233] and verify all underground utilities prior to construction.
- Contractor shall be responsible for obtaining all necessary permits and licenses.
- All work shall conform to all local and state regulatory agencies and utility company requirements.
- Upon entering the site, the contractor shall become responsible for all erosion control, dewatering and shall undertake all measures to protect wetlands, the drainage system and streets from siltation and dust.
- Contractor shall be responsible for repairing any damage caused to roads, walks, utilities, site improvements [existing or proposed] both inside and outside the limit of work if damage due to work directly associated with this project.
- Existing utilities shall be maintained in service as required by the use of site and adjacent properties. Relocate utility lines as required.
- The drainage system shall be maintained and functional during construction and all catch basins, manholes & pipes shall be cleaned after the completion of the project.
- The "site plan" is based on topographic survey showing all visually apparent features of the site on the date(s) that surface explorations and topography were completed.
- No attempt was made, in preparing the plans, to ascertain the location of non-visually apparent subsurface utilities and structures, or conditions.
- The limit of work shall be as designated and / or the edge of the proposed grading and / or the property lines, if not indicated.
- Materials imported to the site shall be free of hazardous waste and noxious materials, stored as designated and shall not hamper the site activities.
- Materials exported from the site shall become the property of the contractor and be disposed of in a legal manner.
- All existing and new utility structures shall be adjusted to finished grades. Setting of rims temporarily at binder course may be required.
- All water mains, water services and force mains shall have a five (5) foot minimum cover.
- All pavements shall be cut to a vertical face outside limits of prior disturbance and prior to installing adjacent new pavements. All new pavements shall be installed in a manner that is uniform, with watertight joints resulting.
- The project shall be complete when the site is found to be litter/debris free, erosion resistant, all erosion barriers are removed and pavements, catch basins, manholes and pipes are clean.
- The contractor shall clearly mark the limits of work in the field prior to the start of construction.
- Hauling of earth to or from the site shall be done between the hours of 9:00 a.m. and 4:00 p.m. on weekdays only.
- Any alterations within 100 feet of a wetland [200 feet of a stream] shall require a filing with the Conservation Commission. Dewatering shall be controlled as to not impact wetland resource areas.

LEGEND

---	PROPERTY LINE
---	EDGE OF WETLANDS
---	50' BUFFER ZONE
---	75' BUFFER ZONE
---	100' WETLAND BUFFER ZONE
---	OVERHEAD WIRES
○	OBSERVATION HOLE (TEST PIT)
○	PERCOLATION TEST
○	S.T. SEPTIC TANK
○	D-BOX DISTRIBUTION BOX
○	SPOT ELEVATIONS
---	EXISTING 10' CONTOURS
---	EXISTING 2' CONTOURS
---	PROPOSED CONTOURS



No.	DATE	DESCRIPTION
2	5/4/11	POTENTIAL VERNAL POOL
1	3/29/11	WETLAND DELINEATION & HOUSE SHAPE

REVISIONS

NOTICE OF INTENT PLAN SHEET 1 OF 2
 95 NEWTOWN ROAD
 ACTON, MASSACHUSETTS
 PREPARED FOR:
 WESTCHESTER COMPANY
 30 NAGOG PARK DR, SUITE 225
 ACTON, MA 01720
 SCALE: 1"=20' DATE: FEBRUARY 23, 2011

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