

TOWN OF WOODSTOCK INLAND WETLANDS AND WATERCOURSES AGENCY

TOWN OF WOODSTOCK LAND USE DEPT.

APPLICATION FOR PERMISSION TO CONDUCT A REGULATED ACTIVITY WITHIN AN INLAND WETLAND OR WATER COURSE AREA IN THE TOWN OF WOODSTOCK, CONNECTICUT.

(In accordance with the Woodstock Inland Wetlands and Watercourses Regulations, and the regulations of the Connecticut Department of Environmental Protection)

INSTRUCTIONS: All applicants must complete Section 1 of this application form for preliminary review. The Agency will then notify the applicant of any additional information that may be required and will schedule a public hearing, if necessary. In addition to the information supplied in Section 1, the applicant should submit other supporting facts or documents which may assist the Agency

in its evaluation of this proposal. NO PERMIT SHALL BE TRANSFERRED WITHOUT PERMISSION OF AGENCY. SECTION 1 (if not applicant) Name of Property Owner Joodstock - 933 Telephone # 860 Telephone # 2. Attach a written consent to the proposed activity by the owner, if applicant is not the property owner. 06201 Ral County Moodspock Specific directions: Utility Pole Number if present: (Use an additional sheet, if necessary, to draw a sketch showing the property in relation to surrounding roads.) 4. Purpose and Description of Activity for which Authorization is Requested a. Proposed activity will involve the following: (Check appropriate activity): _ Construction _V Deposition or _____ Removal of material __ _ Waste Disposal _ b. Attach a general description of the proposal and indentification of each regulated activity for which permit is sought. Include nature, area and a volume of material to be placed, removed or transferred. Lineal measurements of affected watercourses or wetlands must also be given. c. A detailed site plan of the proposal must be included. d. Purpose of the proposed activity (i.e., a new dwelling, addition to existing dwelling, new business, driveway, etc.): New dwelling 5. Attach a copy of soils map section and copy of U.S. Geological survey map section which contains the proposed activity if any watercourses are altered in any way. 6. Names and Addresses of Adjacent Property Owners (attach separate sheet). The undersigned applicant hereby consents to necessary and proper inspections of the above-mentioned property by Agents of the Inland Wetlands and Watercourses Agency, at reasonable times, both before and after the permit in question has been granted by the Agency. In evaluating this application, the Agency has relied on information provided by the applicant and, if such information subsequently proves to be false, deceptive, incomplete and/or inaccurate, this permit may be modified, suspended or revoked. The undersigned swears that the information supplied in the complete application is accurate to the best of his/her knowledge and belief. Signature of Applicant TO BE FILLED IN BY AGENCY SECTION II Application # 12-23-03 Approved with the following conditions: All erosion controls required are to be inspected and approved by the Enforcement Officer prior to the start of the approved activity. Failure to arrange for the inspection and secure approval may VOID the permit. This approval covers only specific activities described in this application. Date Approved Expires: Bv: _ Chairperson Erosion controls inspected on . Date

Bonding (if required) posted on ...

Date

Property Owners Adjacent to 52 County Road:

County Road

Norman Sr., Jason & Matthew Heckler

79 Bradford Corner Rd.

Woodstock Valley, CT 06282

8 County Road

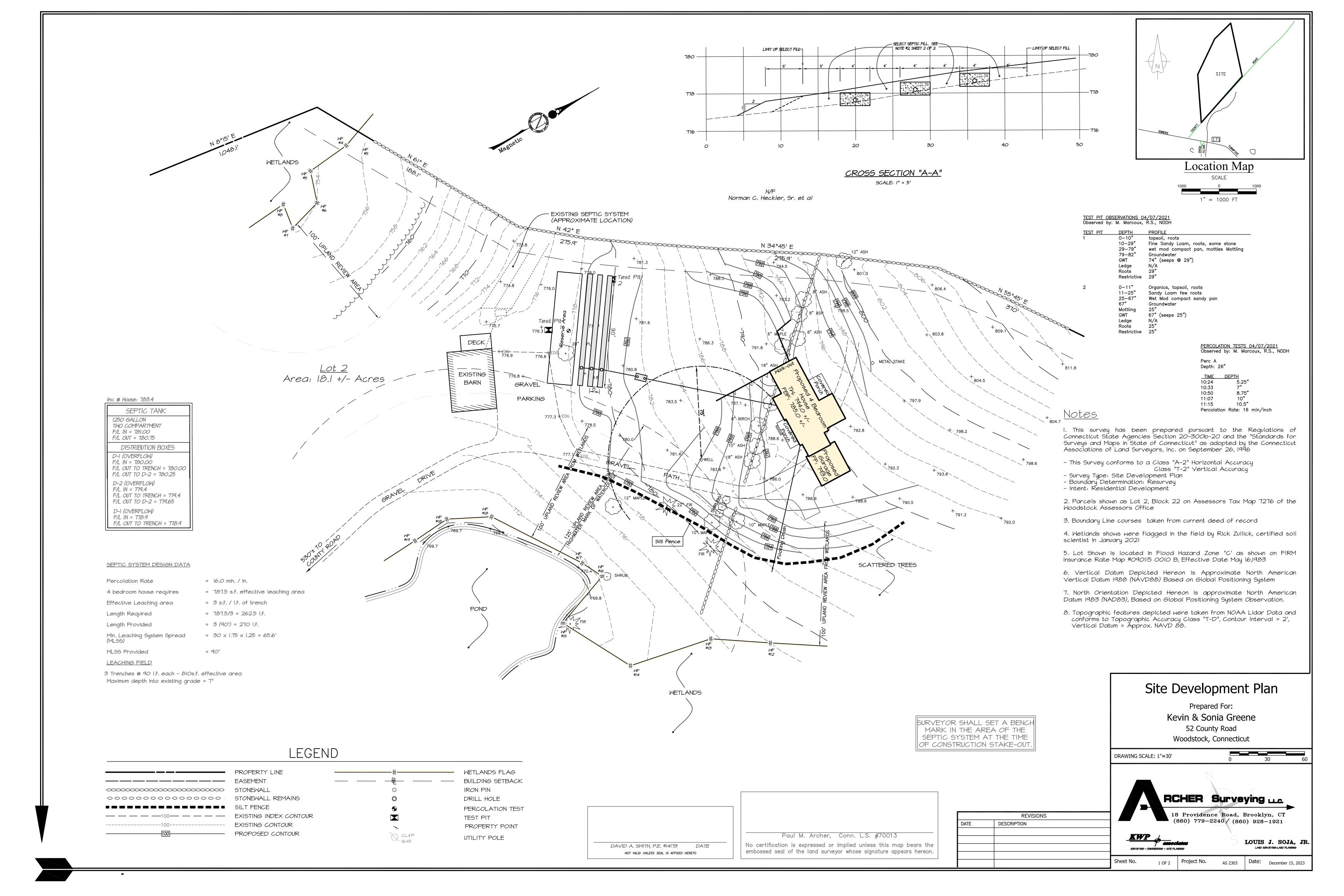
Jane B. Ellis & Jeffrey R. Backstrand

111 Prospect Place

South Orange, NJ 07079

74 County Road

Donald A. Hebert



EROSION AND SEDIMENT CONTROL PLAN:

- REFERENCE IS MADE TO:
- . Connecticut Guidelines for Soil Erosion and Sediment Control 2002 (2002 Guidelines).
- 2. Soil Survey of Windham County Connecticut, U.S.D.A. Soil Conservation Service 1983.

<u>DEVELOPMENT SCHEDULE:</u> (Individual Lots):

- . Prior to any work on site, the limits of disturbance shall be clearly flagged in the field by a Land Surveyor, licensed in the State of Connecticut. Once the limits of clearing are flagged, they shall be reviewed and approved by an agent of the Town.
- 2. Install and maintain erosion and sedimentation control devices as shown on these plans. All erosion control devices shall be inspected by an agent of the Town. Any additional erosion control devices required by the Town's Agent shall be installed and inspected prior to any construction on site. (See silt fence installation notes.)
- 3. Install construction entrance.
- 4. Construction will begin with clearing, grubbing and rough grading of the proposed site. The work will be confined to areas adjacent to the proposed building, septic system and driveway. Topsoil will be stockpiled on site and utilized during final grading.
- 5. Begin construction of the house, septic system and well.
- 6. Disturbed areas shall be seeded and stabilized as soon as possible to prevent erosion.
- 7. The site will be graded so that all possible trees on site will be saved to provide buffers to adjoining

DEVELOPMENT CONTROL PLAN:

- Development of the site will be performed by the individual lot owner, who will be responsible for the installation and maintenance of erosion and sediment control measures required throughout construction.
- 2. The sedimentation control mechanisms shall remain in place from start of construction until permanent vegetation has been established. The representative for the Town will be notified when sediment and erósion control structures are initially in place. Any additional soil \$ erosion control measures requested by the Town or its agent, shall be installed immediately. Once the proposed development, seeding and planting have been completed, the representative shall again be notified to inspect the site. The control measures will not be removed until this inspection is complete.
- 3. All stripping is to be confined to the immediate construction area. Topsoil shall be stockpiled so that slopes do not exceed 2 to 1. A hay bale sediment barrier is to surround each stockpile and a temporary vegetative cover shall be provided.
- 4. Dust control will be accomplished by spraying with water and if necessary, the application of calcium
- 5. The proposed planting schedule is to be adhered to during the planting of disturbed areas throughout the proposed construction site.
- 6. Final stabilization of the site is to follow the procedures outlined in "Permanent Vegetative Cover". If necessary a temporary vegetative cover is to be provided until a permanent cover can be applied.
- SILT FENCE INSTALLATION AND MAINTENANCE:
- . Dig a 6" deep trench on the uphill side of the barrier location.
- 2. Position the posts on the downhill side of the barrier and drive the posts 1.5 feet into the ground.
- 3. Lay the bottom 6" of the fabric in the trench to prevent undermining and backfill.
- 4. Inspect and repair barrier after heavy rainfall.
- 5. Inspections will be made at least once per week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater to determine maintenance needs.
- b. Sediment deposits are to be removed when they reach a height of I foot behind the barrier or half the height of the barrier and are to be deposited in an area which is not regulated by the inland wetlands
- . Replace or repair the fence within 24 hours of observed failure. Failure of the fence has occurred when sediment fails to be retained by the fence because:
- the fence has been overtopped, undercut or bypassed by runoff water,
- the fence has been moved out of position (knocked over), or the geotextile has decomposed or been damaged.

HAY BALE INSTALLATION AND MAINTENANCE:

- Bales shall be placed as shown on the plans with the ends of the bales tightly abutting each other.
- 2. Each bale shall be securely anchored with at least 2 stakes and gaps between bales shall be wedged with straw to prevent water from passing between the bales.
- 3. Inspect bales at least once per 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.
- 4. Remove sediment behind the bales when it reaches half the height of the bale and deposit in an area which is not regulated by the Inland Wetlands Commission.
- . Replace or repair the barrier within 24 hours of observed failure. Failure of the barrier has occurred
- when sediment fails to be retained by the barrier because the barrier has been overtopped, undercut or bypassed by runoff water,
- the barrier has been moved out of position, or the hay bales have deteriorated or been damaged.

TEMPORARY VEGETATIVE COVERS

SEED SELECTION

Grass species shall be appropriate for the season and site conditions. Appropriate species are outlined in Figure TS-2 in the 2002 Guidelines.

TIMING CONSIDERATIONS

Seed with a temporary seed mixture within 7 days after the suspension of grading work in disturbed areas where the suspension of work is expected to be more than 30 days but less than I year.

SITE PREPARATION

Install needed erosion control measures such as diversions, grade stabilization structures, sediment basins

Grade according to plans and allow for the use of appropriate equipment for seedbed preparation, seeding,

mulch application, and mulch anchoring. SEEDBED PREPARATION

Loosen the soil to a depth of 3–4 inches with a slightly roughened surface. If the area has been recently loosened or disturbed, no further roughening is required. Soil preparation can be accomplished by tracking with a bulldozer, discing, harrowing, raking or dragging with a section of chain link fence. Avoid excessive compaction of the surface by equipment traveling back and forth over the surface. If the slope is tracked,

If soil testing is not practical or feasible on small or variable sites, or where timing is critical, fertilizer may be applied at the rate of 300 pounds per acre or 7.5 pounds per 1,000 square feet of 10-10-10 or equivalent. Additionally, lime may be applied using rates given in Figure TS-1 in the 2002 Guidelines.

the cleat marks shall be perpendicular to the anticipated direction of the flow of surface water.

Apply seed uniformly by hand cyclone seeder, drill, cultipacker type seeder or hydroseeder at a minimum rate for the selected species. Increase seeding rates by 10% when hydroseeding.

Temporary seedings made during optimum seeding dates shall be mulched according to the recommendations in the 2002 Guidelines. When seeding outside of the recommended dates, increase the application of mulch to provide 95%-100% coverage.

MAINTENANCE

nspect seeded area at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater for seed and mulch movement and rill erosion.

Where seed has moved or where soil erosion has occurred, determine the cause of the failure. Repair eroded areas and install additional controls if required to prevent reoccurrence of erosion.

Continue inspections until the grasses are firmly established. Grasses shall not be considered established until a ground cover is achieved which is mature enough to control soil erosion and to survive severe weather conditions (approximately 80% vegetative cover).

PERMANENT VEGETATIVE COVER:

- Refer to Permanent Seeding Measure in the 2002 Guidelines for specific applications and details related to the installation and maintenance of a permanent vegetative cover. In general, the following sequence of operations shall apply:
- I. Topsoil will be replaced once the excavation and grading has been completed. Topsoil will be spread at a minimum compacted depth of
- 2. Once the topsoil has been spread, all stones 2" or larger in any dimension will be removed as well as debris.
- . Apply agricultural ground limestone at a rate of 2 tons per acre or 100 lbs. per 1000 s.f. Apply 10-10-10 fertilizer or equivalent at a rate of 300 lbs. per acre or 7.5 lbs. per 1000 s.f. Work lime and fertilizer into the soil to a depth of 4".
- 4. Inspect seedbed before seeding. If traffic has compacted the soil, retill compacted areas.
- . Apply the chosen grass seed mix. The recommended seeding dates arė: April I to June 15 & August 15 - October I.
- 6. Following seeding, firm seedbed with a roller. Mulch immediately following seeding. If a permanent vegetative stand cannot be established by September 30, apply a temporary cover on the topsoil such as netting, mat or organic mulch.

EROSION AND SEDIMENT CONTROL NARRATIVE:

PRINCIPLES OF EROSION AND SEDIMENT CONTROL

The primary function of erosion and sediment controls is to absorb erosional energies and reduce runoff velocities that force the detachment and transport of soil and/or encourage the deposition of eroded soil particles before they reach any sensitive area.

KEEP LAND DISTURBANCE TO A MINIMUM

The more land that is in vegetative cover, the more surface water will infiltrate into the soil, thus minimizing stormwater runoff and potential erosion. Keeping land disturbance to a minimum not only involves minimizing the extent of exposure at any one time, but also the duration of exposure. Phasing, sequencing and construction scheduling are interrelated. Phasing divides a large project into distinct sections where construction work over a specific area occurs over distinct periods of time and each phase is not dependent upon a subsequent phase in order to be functional. A sequence is the order in which construction activities are to occur during any particular phase. A sequence should be developed on the premise of "first things first" and last things last" with proper attention given to the inclusion of adequaté erosion and sediment control measures. A construction schedule is a sequence with time lines applied to it and should address the potential overlap of actions in a sequence which may be in conflict with each other.

- Limit areas of clearing and grading. Protect natural vegetation from construction equipment with fencing, tree armoring, and retaining walls or trée wells.
- Route traffic patterns within the site to avoid existing or newly planted vegetation.
- Phase construction so that areas which are actively being developed at any one time are minimized and only that area under construction is exposed. Clear only those areas essential
- Sequence the construction of storm drainage systems so that they are operational as soon as possible during construction. Ensure all outlets are stable before outletting storm drainage flow into

Schedule construction so that final grading and stabilization is completed as soon as possible.

SLOW THE FLOW

Detachment and transport of eroded soil must be kept to a minimum by absorbing and reducing the erosive energy of water. The erosive energy of water increases as the volume and velocity of runoff increases. The volume and velocity of runoff increases during development as a result of reduced infiltration rates caused by the removal of existing vegetation, removal of topsoil, compaction of soil

- Use diversions, stone dikes, silt fences and similar measures to break flow lines and dissipate storm water energy.
- Avoid diverting one drainage system into another without calculating the potential for downstream flooding or erosion.

KEEP CLEAN RUNOFF SEPARATED

Clean runoff should be kept separated from sediment laden water and should not be directed over disturbed areas without additional controls. Additionally, prevent the mixing of clean off-site generated runoff with sediment läden runoff generated on-site until after adequate filtration of on-site waters has occurred.

- Segregate construction waters from clean water.
- Divert site runoff to keep it isolated from wetlands, watercourses and drainage ways that flow through or near the development until the sediment in that runoff is trapped or detained.

REDUCE ON SITE POTENTIAL INTERNALLY AND INSTALL PERIMETER

While it may seem less complicated to collect all waters to one point of discharge for treatment and just install a perimeter control, it can be more effective to apply internal controls to many small sub-drainage basins within the site. By reducing sediment loading from within the site, the chance of perimeter control failure and the potential off-site damage that it can cause is reduced. It is generally more expensive to

- correct off-site damage than it is to install proper internal controls. Control erosion and sedimentation in the smallest drainage area possible. It is easier to control erosion than to contend with sediment after it has been carried downstream and deposited in unwanted areas.
- Direct runoff from small disturbed areas to adjoining undisturbed vegetated areas to reduce the potential for concentrated flows and increase settlement and filtering of sediments.
- Concentrated runoff from development should be safely conveyed to stable outlets using rip rapped channels, waterways, diversions, storm drains or similar measures.
- Determine the need for sediment basins. Sediment basins are required on larger developments where major grading is planned and where it is impossible or impractical to control erosion at the source. Sediment basins are needed on large and small sites when sensitive areas such as wetlands, watercourses, and streets would be impacted by off-site sediment deposition. Do not locate sediment basins in wetlands or permanent or intermittent watercourses. Sediment basins should be located to intercept
- runoff prior to its entry into the wetland or watercourse. Grade and landscape around buildings and septic systems to divert water away from them.

SEPTIC SYSTEM CONSTRUCTION NOTES

- The building, septic system and well shall be accurately staked in the field by a licensed Land Surveyor in the State of Connecticut, prior to construction.
- 2. Topsoil shall be removed and in the area of the primary leaching field
- scarified, prior to placement of septic fill. Septic fill specifications are as follows: - Max. percent of gravel (material between No. 4 \$ 3 inch sieves) = 45%

GRADATION OF FILL (MINUS GRAVEL)

SIEVE	PERCENT PASSING	PERCENT PASSING
SIZE	(WET SIEVE)	(DRY <u>SIEVE)</u>
No. 4	100%	100%
No. 10	70% - 100%	70% - 100%
No. 40	10% - 50%	10% - 75%
No. 100	0% - 20%	<i>0</i> % – 5%
No. 200	0% - 5%	0% - 2.5%

Fill material shall be approved by the sanitarian prior to placement. It shall be compacted in 6" lifts and shall extend a minimum of ten feet (IO') beyond the last leaching trench before tapering off.

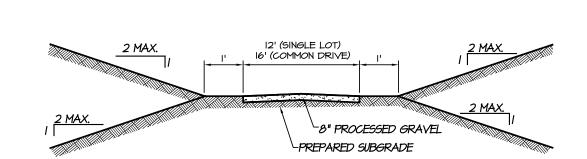
- 3. Septic tank shall be two compartment precast 1000 gallon tank with gas deflector and outlet filter as manufactured by Jolley Precast, Inc. or equal.
- 4. Distribution boxes shall be 4 hole precast concrete as manufactured by Jolley Precast, Inc. or equal.
- 5. All precast structures such as septic tanks, distribution boxes, etc. shall be set level on six inches (6") of compacted gravel base at the elevations specified on the plans.
- lines and grades shown on the plans and in no case have a slope less than 0.125 inches per foot. 7. Perforated distribution pipe shall be 4" diameter PVC meeting ASTM D-2729

or ASTM D-3350, 1500 lb. minimum crush.

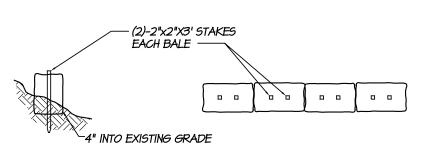
6. Solid distribution pipe shall be 4" diameter PVC meeting ASTM D-3034

SDR 35 with compression gasket joints. It shall be laid true to the

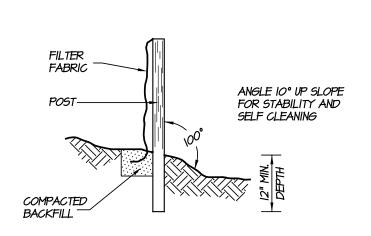
- 8. Sewer pipe from the foundation wall to the septic tank shall be schedule 40 PVC meeting ASTM D 1785. It shall be laid true to the grades shown on the plans and in no case shall have a slope less than 0.25 inches per foot.
- 9. Force main pressure pipe from pump chamber to the leaching field shall be 2" diameter pvc meeting ASTM D 2241 SDR 21.
- 10. Solid footing drain outlet pipe shall be 4" Diameter PVC meeting ASTM D 3034, SDR 35 with compression gasketed joints. Footing drain outlet pipe shall <u>not</u> be backfilled with free draining material, such as gravel, broken stone, rock fragments, etc.



GRAVEL DRIVE DETAIL



HAYBALE BARRIER NOT TO SCALE



SILT FENCE

NOT TO SCALE

- FILTER FABRIC

F/L ELEVATION

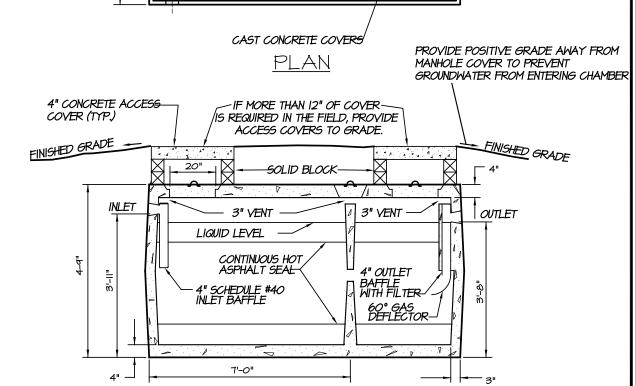
EXISTING GRADE

- 4" DIA. PERF. PVC PIPE

 ∇ GWT

___ REMOVE EXISTING TOPSOIL

- SEE DEEP TEST HOLE EVALUATION



KNOCKOUT INLET AND

OUTLET OPENINGS

RIBS INSIDE—



TOPSOIL

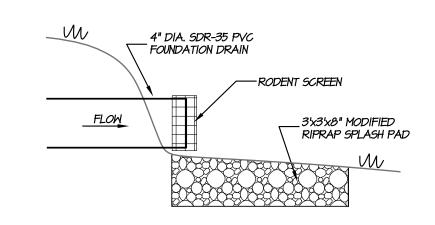
SILTY SUBSOIL

I" BROKEN STONE

OR SCREENED GRAVEL

SOIL FOR ABSORPTION

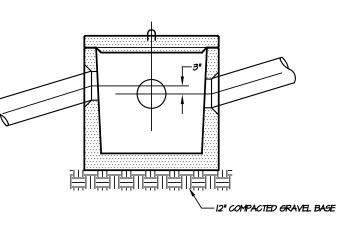
-BEDROCK

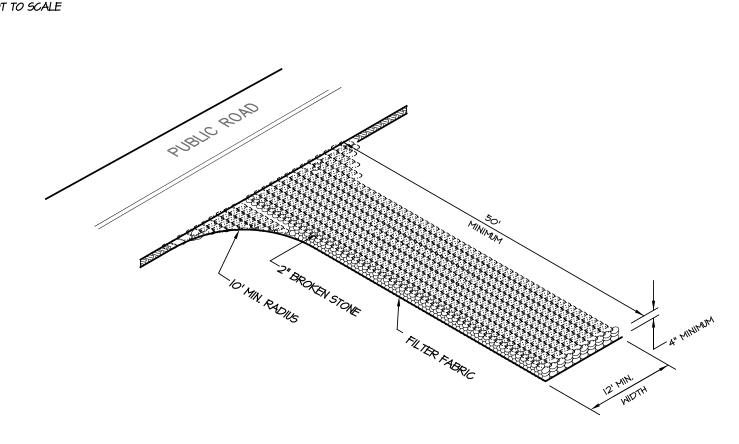


FOUNDATION DRAIN



CROSS SECTION





CONSTRUCTION ENTRANCE

Detail Sheet

Prepared For: Kevin & Sonia Greene 52 County Road Woodstock, Connecticut

18 Providence Road, Brooklyn, CT **REVISIONS** 860) 779-2240 / (860) 928-1921 DESCRIPTION LOUIS J. SOJA, JR.

Project No. Date: AS 2303 December 15, 2023

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LAND SURVEYING-LAND PLANNING