

- 1. This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Sections 20—300b—1 through 20—300b—20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996, Amended October 26, 2018;
- This survey conforms to a Class "C" horizontal accuracy.
- Field surveyed topographic features conform to a Class "T-2", "V-2" vertical accuracy.
- LIDAR topographic features conform to a Class "T-D" vertical accuracy.
- Survey Type: General Location Survey.

This map was prepared from record research, other maps, limited field measurements and other sources, it is not to be construed as a Property/Boundary or Limited Property/Boundary Survey and is subject to such facts as said surveys may disclose.

- 2. Zone = RD.
- 3. Parcel is shown as Lot #6 on Assessors Map #65.
- 4. Owner of record: Estate of Robert Liebler & Norma Liebler 130 Red Stone Hill Plainville, CT 06062
 See Volume 440, Page 82

Applicant: Gavin Sheehan 75 Doyle Road Tolland, CT 06084

- 5. Elevations shown are based on North American Vertical Datum of 1988 (NAVD 88). Contours shown are taken from Connecticut statewide LIDAR and supplemented with actual field survey. Contour interval = 2'.
- 6. Wetlands shown were delineated in the field by Joseph Theroux, Certified Soil Scientist, on 7/14/2023.
- 7. North orientation, bearings and coordinate values shown are based on North American Datum of 1983 (NAD 83) and are taken from GPS observations using the "Superior" statewide GPS network and RTK correction system.
- 8. Before any construction is to commence contact "CALL BEFORE YOU DIG" at 1-800-922-4455 or 811.

MAP REFERENCE:

1. "Plan of Land of — Etienne L. & Marie Jeanne Labelle — Near Ballouville Killingly, Conn. — Scale: 1" = 100' — March 1945 — Prepared by: W.K. Pike On file in the Killingly Land Records as Map #363—E.

11/27/2023	PER IWWC SITE WALK/ADDED BOX CULVERT	
DATE	DESCRIPTION	
	REVISIONS	

GENERAL LOCATION SURVEY SEPTIC SYSTEM DESIGN PLAN

PREPARED FOR

GAVIN SHEEHAN

350 BREAKNECK HILL ROAD KILLINGLY, CONNECTICUT

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DRAWN: RGS

DATE: 11/02/2023 DRAWN: RGS

SCALE: 1" = 30' DESIGN: NET

SHEET: 1 OF 2 CHK BY: GG

DWG. No: CLIENT FILE JOB No: 23096

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 adequate 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 tree
- 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 for construction.
- 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 them.
- 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 and the construction of impervious surfaces.

- 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 laden 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 CONTROLS

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.

SEPTIC SYSTEM CONSTRUCTION NOTES

1. The building, septic system and well shall be accurately staked in the field by a licensed Land Surveyor in the State of Connecticut,

GRADATION OF FILL (MINUS GRAVEL)

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%

SIEVE SIZE	PERCENT PASSING(WET SIEVE)	PERCENT PASSING(DRY_SIEVE)
No. 4	100%	100%
No. 10	70% — 100%	70% — 100%
No. 40	10% – 50%	10% — 75%
No. 100	0% – 20%	0% – 5%
No. 200	0% – 5%	0% - 2.5%

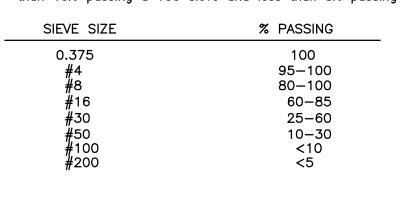
Fill material shall be approved by the sanitarian prior to placement. It shall be compacted in 6" lifts and shall extend a minimum of five feet (5') around the perimeter of the system. Common fill shall extend an additional five feet (5') down gradient of the system (10' total) before tapering off at a maximum slope of 2H:1V.

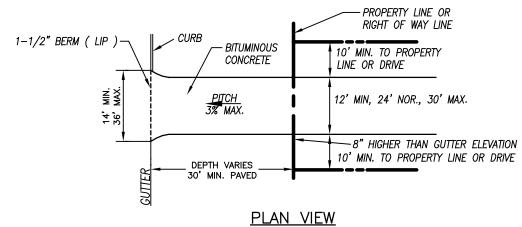
- 3. Septic tank shall be two compartment precast 1000 gallon tank with gas deflector and outlet filter as manufactured by Jolley Precast,
- 4. Distribution boxes shall be 4 hole precast concrete as manufactured

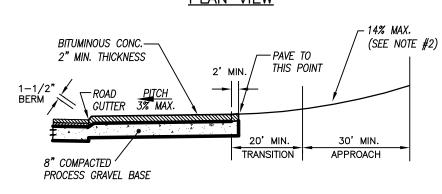
by Jolley Precast, Inc. or equal.

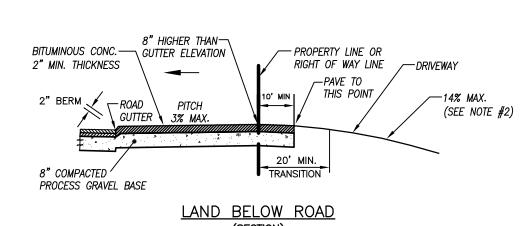
- 5. All precast structures such as septic tanks, distribution boxes, etc. shall be set level on six inches (6") of compacted gravel base at the elevations specified on the plans.
- 6. Solid distribution pipe shall be 4" diameter PVC meeting ASTM D-3034 SDR 35 with compression gasket joints. It shall be laid true to the 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-3034 or ASTM F1760 for SDR 35, or ASTM F810 for SDR 38.
- 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
- 9. 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.

10. Septic sand shall meet the requirements of ASTM C-33 with less than 10% passing a 100 sieve and less than 5% passing a 200 sieve









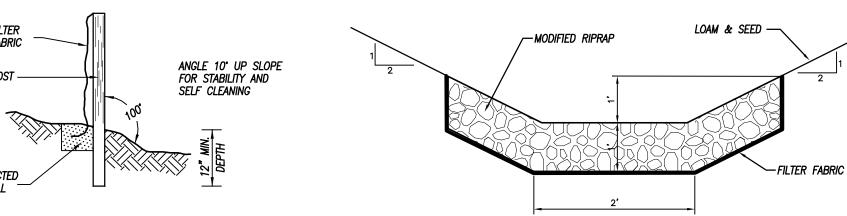
LAND ABOVE ROAD

1. THE ABOVE DETAIL IS ILLUSTRATIVE ONLY AND DOES NOT APPLY TO EVERY SITUATION. REVIEW YOUR DRIVEWAY PERMIT FOR YOUR SPECIFIC REQUIREMENTS. 2. DRIVEWAYS IN EXCESS OF 10% GRADE, AND ALL COMMON (SHARED) DRIVEWAYS SHALL

STANDARD DRIVE DETAIL NOT TO SCALE

ANY CHANGES TO THESE PLANS WITHIN 200' OF WETLANDS OR WATERCOURSES MUST BE RESUBMITTED TO THE KILLINGLY INLAND WETLANDS AND WATERCOURSES COMMISSION FOR ITS APPROVAL.

THE APPLICANT WILL CONTACT THE KILLINGLY INLAND WETLANDS AND WATERCOURSES COMMISSION'S AGENT AFTER ALL EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED, PRIOR TO ANY CONSTRUCTION OR EXCAVATION ON THE PROPERTY.



SILT FENCE

(2)-2"x2"X3' STAKES EACH BALE

HAYBALE BARRIER

NOT TO SCALE

–2–1/2" BITUMINOUS CONCRETE

— CRUSHED STONE

SPEC. M.01.01 #3

CONFORMING TO CONNDOT

-8" PROCESSED GRAVEL

PREPARED SUBGRADE

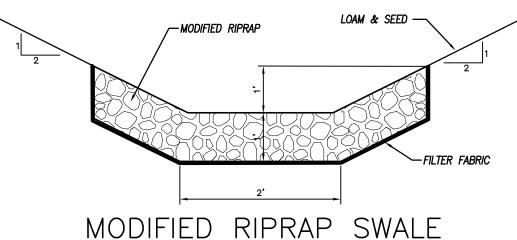
PAVED DRIVE DETAIL

STONE CHECK DAM

NOT TO SCALE

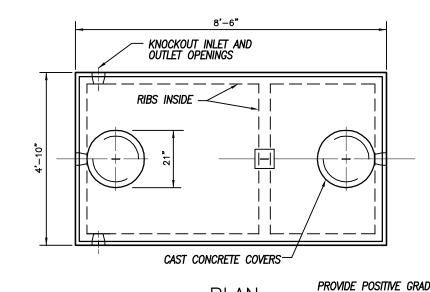
FILTER FABRIC -

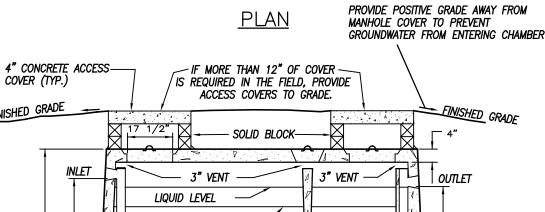
-4" INTO EXISTING GRADE

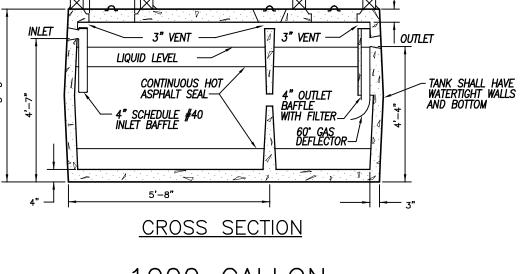


STANDARD D-BOX

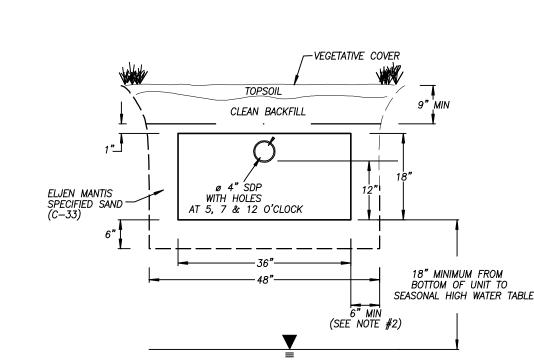
2X2 5/8 16 GA. WIRE MESH-







1000 GALLON COMPARTMENT SEPTIC TANK NOT TO SCALE

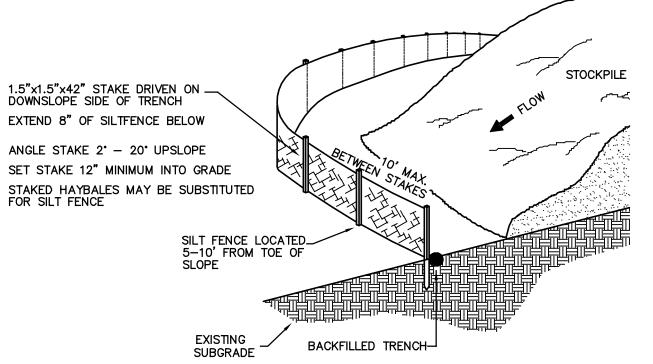


4" PIPE WITH PRE-DRILLED __1" HOLES AT __5, 7 & 12 O'CLOCK

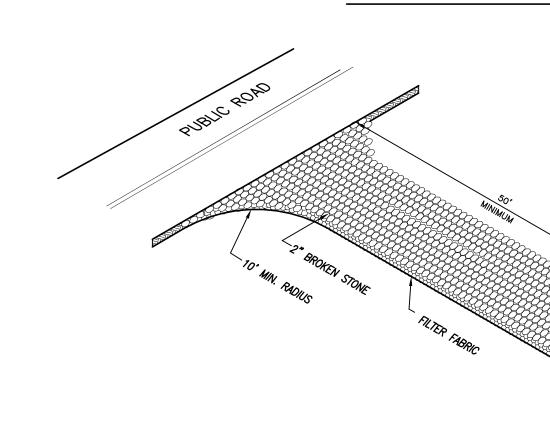
VENTING REQUIRED WHEN MORE THAN 18" OF COVER AS MEASURED FROM THE TOP OF THE UNIT TO FINISHED

2. FOR SYSTEMS INSTALLED IN FILL, CONTRACTOR SHALL PROVIDE 5' OF SELECT FILL OR ASTM C-33 SAND 5' AROUND PERIMETER OF SYSTEM.

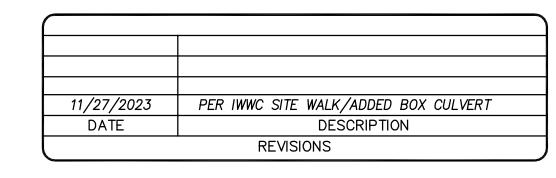
ELJEN 536-8 WASTEWATER LEACHING SYSTEM



SILT FENCE @ TOE OF SLOPE APPLICATION



ANTI-TRACKING PAD NOT TO SCALE



DETAIL SHEET

PREPARED FOR

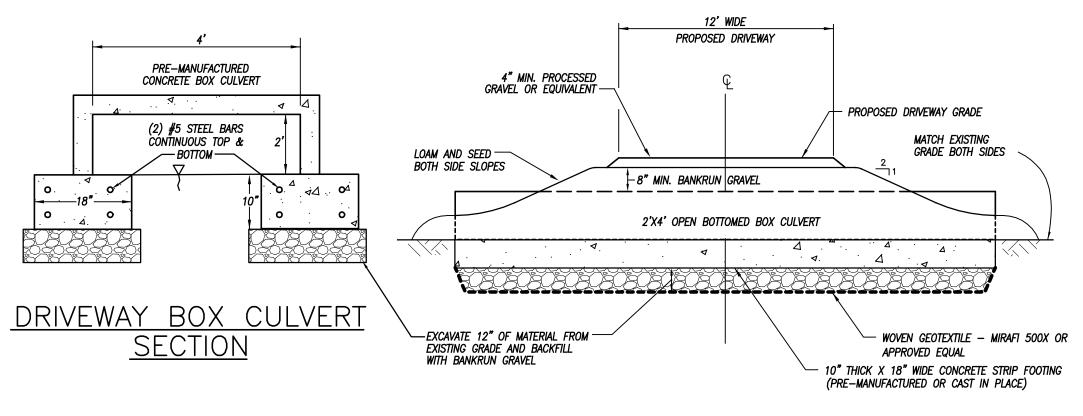
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DATE: 11/02/2023 DRAWN: RGS SCALE: NOT TO SCALE DESIGN: NET SHEET: 2 OF 2 CHK BY: ---DWG. No: CLIENT FILE JOB No: 23096



DRIVEWAY BOX CULVERT <u>DETAIL</u> NOT TO SCALE

NOTE: SEE SHEET 1 FOR BOX CULVERT INVERT ELEVATIONS

NORMAND THIBEAULT, JR., P.E. No. 22834 DATE

CHAIRMAN DATE

APPROVED BY THE TOWN OF KILLINGLY INLAND WETLANDS COMMISSION

