



**Public Health**  
Prevent. Promote. Protect.

Karen DeMarco, MPH  
Health Officer/Director

October 4, 2021

Carla Conner, Secretary  
Clinton Township Board of Health  
1225 Route 31, Suite 411  
Lebanon NJ 08333

Re: Septic System Alteration Waiver  
Municipality: Clinton Township  
Block: 82.17 Lot: 39  
Location: 8 Fairview Dr.

Dear Carla,

This department has septic alteration plans dated September 29, 2021 designed by Douglas Fine, PE, to correct a malfunctioning system to an existing 4 bedroom dwelling with no expansion as stated on the application. The design is in full conformance with 7:9A "Standards for Individual Subsurface Sewage Disposal Systems" except for the following waiver requests that will need to be acted on by the Board:

1. The proposed disposal bed will be only 59.8 feet from the existing well, which does not meet the minimum 100 foot set back requirement by code. As per 7:9A-4.3, the distance can be reduced to 50 feet provided there is 50 feet of casing in the well. A letter from D+L Pump Company dated July 28, 2021 states that there is 57 feet of casing in the well, therefore the Board can approve the waiver request.

Since this is a malfunctioning system, and according to 7:9A 3.3(e) 2 i and ii, and the system is closer to being in full conformance with the chapter than the original system, the Board can approve waiver request.

If you have any questions, please call.

Very truly yours,

**ORIGINAL IS SIGNED AND ON FILE AT HUNTERDON COUNTY HEALTH DEPARTMENT**

Robert Vaccarella, REHS  
Principal Environmental Health Specialist

RV: dv

cc: Doug Fine, PE

ct8217\_39

# Hunterdon County Department of Health



[www.co.hunterdon.nj.us/health.html](http://www.co.hunterdon.nj.us/health.html)

# D & L Pump Company

P.O. Box 458

Lebanon, NJ 08833

(908) 534-0048 or 782-6355

FAX (908) 823-4034

July 28, 2021

Charlene Budinich  
8 Farview Drive  
Annandale, NJ 08801

RE: Lot: 39 Block: 82.17  
Clinton Twp., Hunterdon County

This letter is to certify that D & L Pump Company was out to the above referenced property to measure the length of the well casing at 57 feet, 3 inches.

If you have any questions regarding this information, please contact the office.

Thank you,

*Edward Del Carlo*

D & L Pump Co.

RECEIVED

SEP 30 2021

HUNTERDON COUNTY  
HEALTH DEPARTMENT

# SEPTIC SYSTEM ALTERATION DESIGN

BLOCK 82.17, LOT 39

IN THE TOWNSHIP OF CLINTON

COUNTY OF HUNTERDON

STATE OF NEW JERSEY

FOR

CHARLENE & DENNIS BUDINICH

8 FARVIEW DR.


ANNADALE NJ 08801

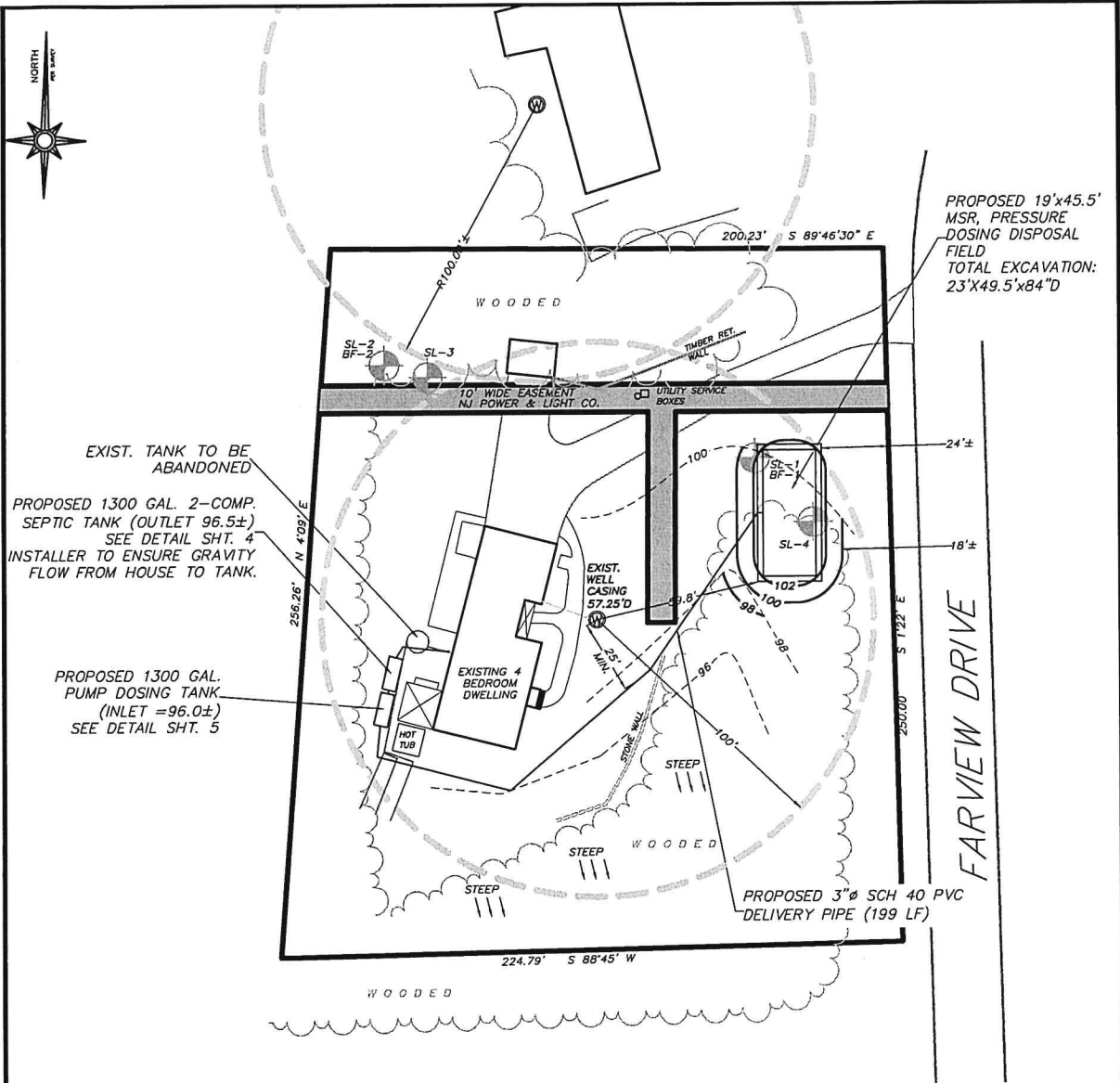


## KEY MAP

NJGEOWEB

REVISION DESCRIPTION			DATE			APPROVED		

SEPTIC SYSTEM ALTERATION DESIGN			
DRAWN BY: DEF	DESIGNED BY: DEF	CHECKED BY: DEF	MUNICIPALITY: CLINTON TWP.
 9/29/2021			BLOCK: 82.17
<b>DOUGLAS E. FINE, P.E.</b> New Jersey PE License No. 24GE04311900			LOT: 39
P.O. Box 253 Three Bridges NJ 08887 DougFineEngineering			DATE: SEPT. 29, 2021
Certificate of Authorization No. 24GA28321700			SHEET: 1 of 11



PROPOSED 19'x45.5'  
MSR, PRESSURE  
DOSING DISPOSAL  
FIELD  
TOTAL EXCAVATION:  
23'x49.5'x84"D

EXIST. TANK TO BE  
ABANDONED

PROPOSED 1300 GAL. 2-COMP.  
SEPTIC TANK (OUTLET 96.5±)  
SEE DETAIL SHT. 4  
INSTALLER TO ENSURE GRAVITY  
FLOW FROM HOUSE TO TANK.

PROPOSED 1300 GAL.  
PUMP DOSING TANK  
(INLET =96.0±)  
SEE DETAIL SHT. 5

FAR VIEW DRIVE

GRAPHIC SCALE



BLOCK 82.17, LOT 39  
1.2± ACRES

( IN FEET )  
1 inch = 50 ft.

- NOTES:
1. ACCORDING TO NJDEP GEO-WEB, NO WETLANDS, TRANSITION AREAS, OR STATE OPEN WATERS ARE LOCATED WITH 100' OF THE PROPOSED SEPTIC SYSTEM.
  2. THERE ARE NO NEIGHBORING WELL OR SEPTIC SYSTEMS WITHIN 100 FT. OF THE PROPOSED DISPOSAL FIELD.
  3. NO TREES TO REMAIN WITHIN 10 FT. OF PROPOSED EXCAVATION.
  4. ALL PIPING SHOWN SHALL BE 4"Ø SCH. 40 PVC @ 1/4" PER FOOT UNLESS OTHERWISE SPECIFIED.
  5. BENCHMARK ELEVATION AS SHOWN.
  6. EXISTING WELL CASING WAS MEASURED BY D&L PUMP CO. AND REPORTED AS 57 FEET, 3 INCHES ALLOWING THE DISPOSAL FIELD TO BE NO LESS THAN 50 FT. FROM THE EXISTING WELL.

REVISION DESCRIPTION	DATE	APPROVED



Douglas E Fine, P.E.  
Doug@DougFineNJ.com  
908-399-4150

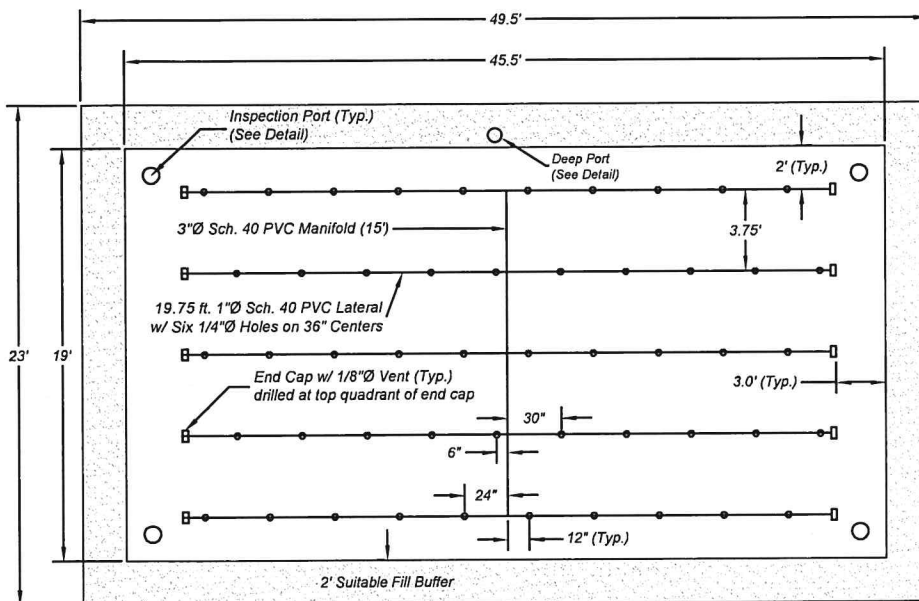
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DougFineEngineering

Certificate of Authorization No. 24GA28321700

SEPTIC SYSTEM ALTERATION DESIGN

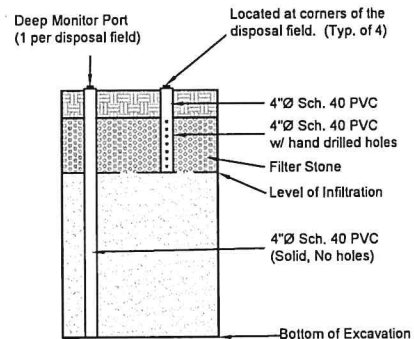
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*D E Fine* 9/29/2021  
DOUGLAS E. FINE, P.E.  
New Jersey PE License No. 24GE04311900



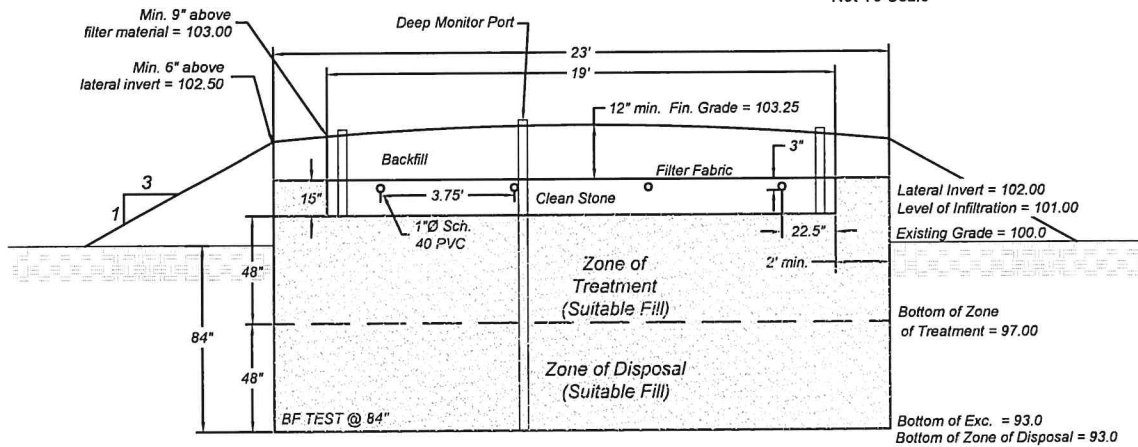
Note:  
Laterals shall be installed approximately level. The maximum slope shall be 2 in. per 100 ft.

**DISPOSAL FIELD PLAN VIEW**  
Not To Scale



**INSPECTION & DEEP MONITORING PORT DETAILS**  
Not To Scale

**PROPOSED SEPTIC DISPOSAL FIELD - DETAILS**



**DISPOSAL FIELD SECTION VIEW**  
Not to Scale

- NOTES (See Also General Notes):
1. Filter Fabric shall be a non-woven geotextile product
  2. Clean filter stone shall be NJDOT #3, 4, or 24

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<p><b>Douglas E Fine, P.E.</b> Doug@DougFineNJ.com 908-399-4150</p> <p>P.O. Box 253 Three Bridges NJ 08887 DougFineEngineering</p>			LOT: 39
			DATE: SEPT. 29, 2021
			SHEET: 3 of 11

**PROPOSED SEPTIC TANK - DETAILS**

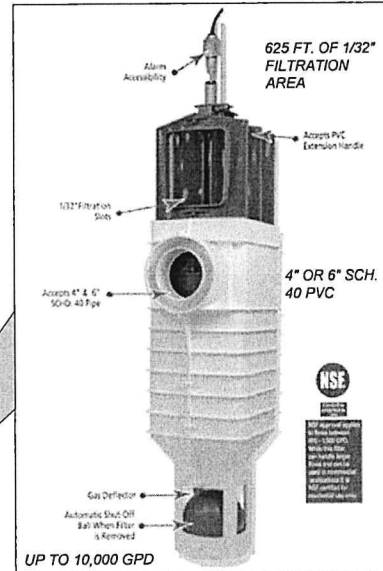
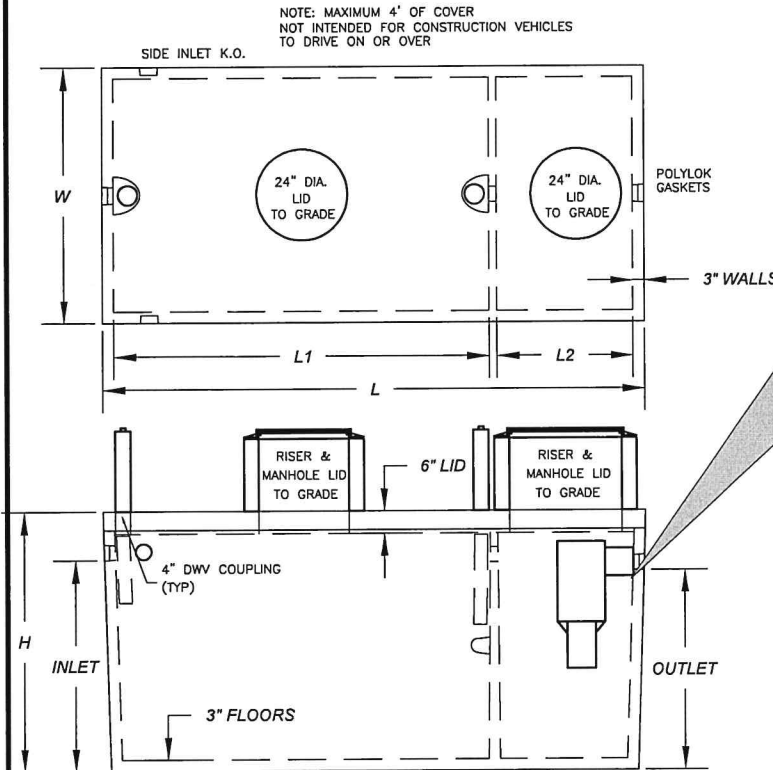
EXISTING SEPTIC TANK(S) TO BE PUMPED, CRUSHED AND BACKFILLED/ABANDONED TO THE SATISFACTION OF THE HEALTH DEPARTMENT.

PROPOSED TANK TO BE INSTALLED IN ACCORDANCE WITH NJAC 7:9A-8.2.

PROPER INLET, OUTLET, AND GAS DEFLECTION BAFFLES ARE REQUIRED AS WELL AS AN EFFLUENT FILTER.

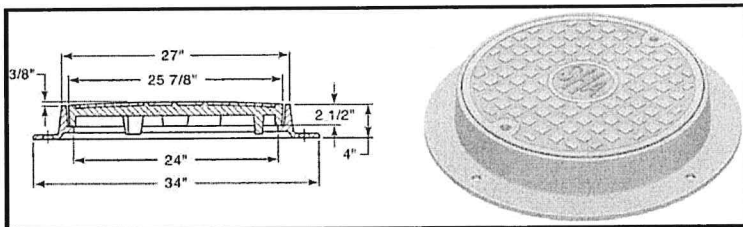
4" SCH 40 PVC INSPECTION PORTS AND WATER-TIGHT BOLTED MANHOLE COVERS TO GRADE ARE REQUIRED.

\*\*\*PLEASE NOTE THAT EFFLUENT FILTERS REQUIRE PERIODIC CLEANING.\*\*\*



1300 TO 1750 GALLON TWO COMPARTMENT MONOLITHIC SEPTIC TANK


TANK SIZE	L	L1	L2	W	H	INLET	OUTLET
1300	142"	102"	32"	57"	68"	54"	51"
1500	132"	82"	42"	68"	68"	54"	51"
1750	144"	96"	39"	68"	69"	57"	54"



A permanent non-corrosive marker a minimum of 6 square inches in size containing the following information shall be attached to the manhole cover or riser immediately below the cover.

- i. The administrative authority name and permit number
- ii. Date of installation
- iii. The type of system
- iv. The total design criteria in gallons per day

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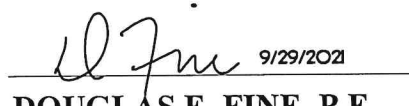


**FINE ENGINEERING, LLC**

Certificate of Authorization No. 24GA28321700

**Douglas E Fine, P.E.**  
 Doug@DougFineNJ.com  
 908-399-4150

P.O. Box 253  
 Three Bridges NJ 08887  
 DougFineEngineering

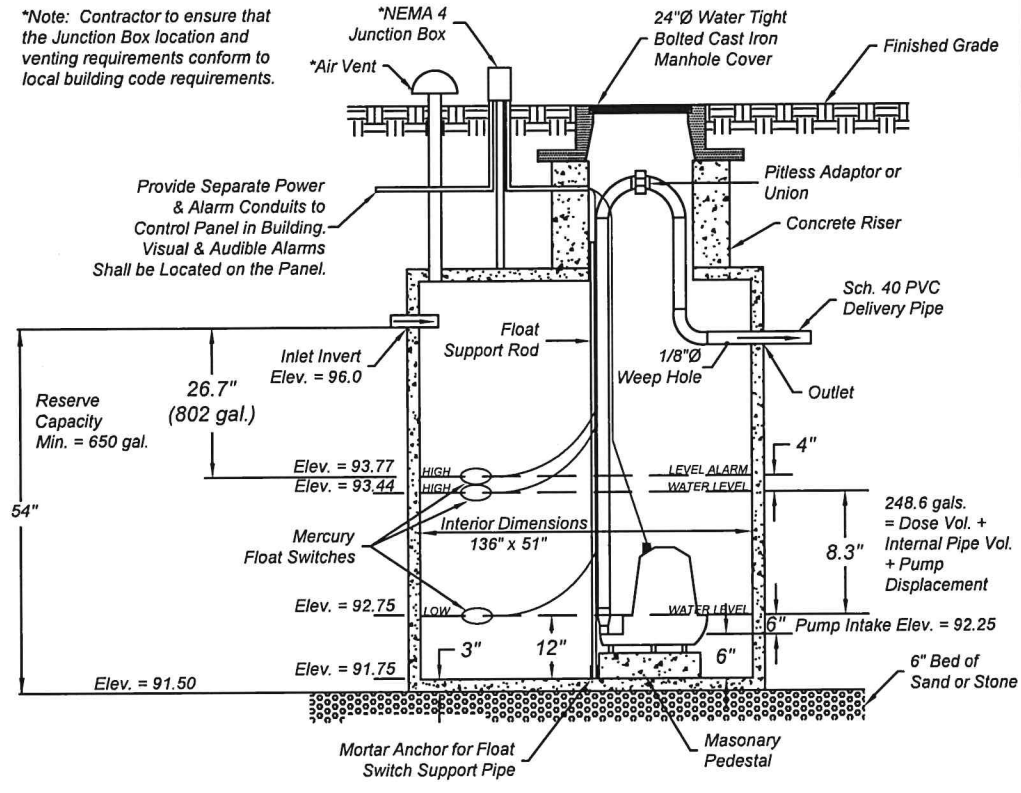


9/29/2021

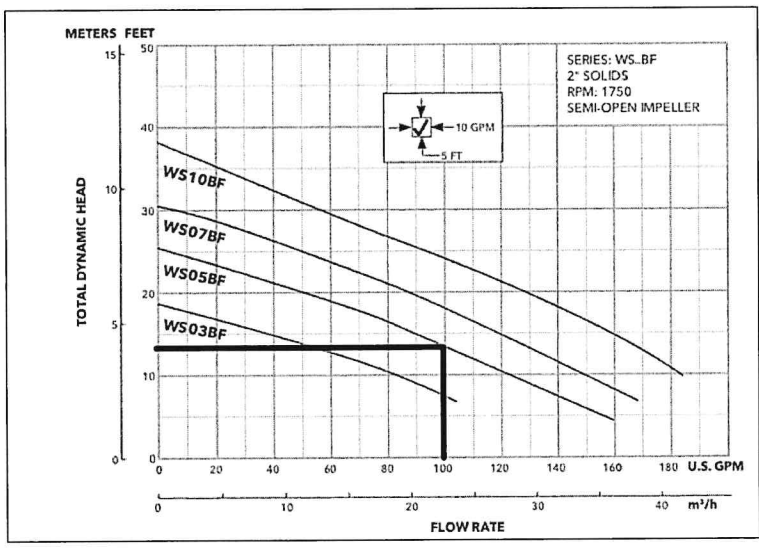
**DOUGLAS E. FINE, P.E.**  
 New Jersey PE License No. 24GE04311900

**PROPOSED PUMP TANK - DETAILS**

\*Note: Contractor to ensure that the Junction Box location and venting requirements conform to local building code requirements.



**PUMP DOSING TANK**  
1,300 Gal. Monolithic by M&W  
Not to Scale



**PUMP OPERATIONAL CURVE**

**PUMP SPECIFICATION**

The pump shall be a GOULDS Model 3887-BF (1/2 hp) or approved equal. The pump shall be capable of pumping against a total head of 14.24 feet and delivering 71 gpm.

REVISION DESCRIPTION	DATE	APPROVED



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908-399-4150

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*Douglas E. Fine* 9/29/2021  
**DOUGLAS E. FINE, P.E.**  
New Jersey PE License No. 24GE04311900

**CLINTON TWP. - BLOCK 82.17 LOT 39**

**SOIL LOGS**

ALL SOIL LOGS AND PERMEABILITY TESTING PERFORMED BY OR UNDER THE DIRECTION OF DOUGLAS E. FINE, P.E. (N.J. LICENSE NO. 43119) AND WITNESSED BY A REPRESENTATIVE OF THE CLINTON TOWNSHIP BOARD OF HEALTH.

SOIL LOG #1 8/9/21

0-10" 10YR 3/3 SILT LOAM TOPSOIL.  
 10-84" NON-SOIL, FRACTURED RED SHALE. 50% GRAVEL, 30% COBBLE, 10% STONE, 10% FILLINGS.  
 > 84" REFUSAL NO MOTTILING NO GW

SOIL LOG #4 8/9/21

0-10" 10YR 3/3 SILT LOAM TOPSOIL.  
 10-84" NON-SOIL, FRACTURED RED SHALE. 50% GRAVEL, 30% COBBLE, 10% STONE, 10% FILLINGS.  
 > 84" REFUSAL NO MOTTILING NO GW

SOIL LOG #2 8/9/21 NOT USED FOR DESIGN

0-8" 10YR 3/3 SILT LOAM TOPSOIL.  
 8-84" NON-SOIL, FRACTURED RED SHALE. 50% GRAVEL, 30% COBBLE, 10% STONE, 10% FILLINGS.  
 > 84" REFUSAL NO MOTTILING NO GW

SOIL LOG #3 8/9/21 NOT USED FOR DESIGN

0-8" 10YR 3/3 SILT LOAM TOPSOIL.  
 8-84" NON-SOIL, FRACTURED RED SHALE. 50% GRAVEL, 30% COBBLE, 10% STONE, 10% FILLINGS.  
 > 84" REFUSAL NO MOTTILING NO GW

**PERMEABILITY TESTS**




BF-1 IN SL-1 @ 84" RESULT = POSITIVE  
 BF-2 IN SL-2 @ 84" RESULT = POSITIVE

**DESIGN FLOW**

Proposed Design Flow for existing 4 Bedroom Dwelling = 650 gpd

**DISPOSAL AREA AND SEPTIC TANK SIZING**

1. The existing tank(s) shall be pumped, and abandoned. A licensed hauler shall pump the existing components and receipt of septage removed shall be submitted to the local Health Department.
2. A new 1,300-gallon, 2-compartment septic tank shall be installed with a filter and proper access as noted on the septic tank detail. (See Septic Tank Detail) An effluent filter shall be installed in the outlet baffle as specified.
3. The dosing tank shall be equipped with on/off floats and high-level alarm which meet all the requirements of N.J.A.C. 7:9A-9.2. The dosing tank is a 1,300-gallon concrete tank which meets the requirements of N.J.A.C. 7:9A-8.2e and 7:9A-8.2h. Reserve capacity requirements are met and demand dosing will be utilized @ 162.5 gallons per dose.
4. The disposal field shall be a mounded soil replacement, (MSR) system. The disposal field has been sized according to NJ requirements @ 1.33 sf/gpd. Provide one (1) disposal field [Minimum 650 gpd \* 1.33 = 864.5 ff]: 19'x45.5.
5. Use one pressure distribution system with ten (10) 1" dia. Sch. 40 PVC laterals, 19.75 ft. long on 3.75 ft. centers (see detail). The pump shall be as specified (See Detail).
6. 4" dia. Sch. 40 PVC Inspection ports shall be placed in the corners of the disposal field and shall extend down to the level of infiltration. A 4" dia. Sch. 40 PVC deep monitoring port shall be placed to the bottom of the excavation.

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 Certificate of Authorization No. 24GA28321700		Douglas E Fine, P.E. Doug@DougFineNJ.com 908-399-4150		 9/29/2021 <b>DOUGLAS E. FINE, P.E.</b> New Jersey PE License No. 24GE04311900		
		P.O. Box 253 Three Bridges NJ 08887  DougFineEngineering				



**GENERAL SEPTIC SYSTEM DESIGN NOTES**

**GENERAL NOTES**

- (1) This Wastewater disposal system has been designed in accordance with the requirements of N.J.A.C. 7:9A, Standards for Individual Subsurface Sewage Disposal Systems, the requirements of the Hunterdon County Health Dept. and the Clinton Twp. Board of Health.
- (2) The plot plan contained herewith is not a property survey. Metes and bounds and existing information were obtained from a property survey prepared by Ronald L. Haffling & Assoc. Inc., dated 3-2-1998.
- (3) All soil testing was performed by or conducted under the direction of Douglas E. Fine, P.E. and witnessed by a representative of Clinton Twp.
- (4) The Engineer and the Health Department shall be notified 48 hours prior to construction so that all inspections may be scheduled. All phases of the construction shall be inspected and approved by the Health Department prior to backfilling.
- (5) Inspection Schedule
  - (a) Stake out and stockpiling of suitable fill (b) Open ditch (c) Suitable fill emplacement, compaction, and percolation rate
  - (d) Stone emplacement (e) Laterals and distribution network (f) Tanks and final grading
- (6) In accordance with NJAC 7:9A-10.1(f)4 Suitable fill shall have:
  - (a) A coarse fragment content less than 15% by volume or less than 20% by weight;
  - (b) A textural analysis (composition by weight of the size fraction passing the particular sieve as stated):
 

100% pass 3/8" sieve	25-60% pass No. 30 sieve
80-100% pass No. 8 sieve	10-30% pass No. 50 sieve
50-85% pass No. 16 sieve	2-10% pass No. 100 sieve
  - (c) Permeability from 6 - 20 in./hr for design purposes.
- (7) All fill shall be stockpiled on-site and tested by the Engineer prior to placement into the disposal area. The fill must be tested for textural analysis and permeability. Placement and number shall be in conformance with NJAC 7:9A-6.1.
- (8) Suitable fill shall be compacted in conformance with N.J.A.C. 7:9A-10.4f(3).
- (9) No wheeled vehicles are to be driven over any part of the disposal area.
- (10) The Engineer will oversee the entire installation and provide a Suitable Fill Certification and As-built Drawings to the Health Department after the system has been installed.
- (11) Prior to the disposal bed stake out by the Engineer and any construction activities by the installer, the installer shall require the owner to have all underground utilities located by the responsible utility company(ies). CALL 1-800-272-1000 BEFORE YOU DIG.
- (12) Construction information is based on topography of plan. Elevations may be modified after final survey.
- (13) Disposal area shall be graded so that surface runoff is diverted away from the disposal area.
- (14) Field changes to the design shall not be permitted. The Engineer and the Health Department shall review and approve any deviations from this design.
- (15) The installer shall be responsible for obtaining any and all of the required permits prior to construction.
- (16) After completion of backfilling and final grading, all disturbed areas shall be raked, seeded and mulched to establish a vegetative cover in a manner acceptable to the Administrative Authority.
- (17) The installer shall ensure that all materials used in the construction of the system are in accordance with N.J.A.C. 7:9A et. seq. and meet the specifications of the design.
- (18) Filter fabric shall be a non-woven geotextile product (TerraTex SD or approved equal).
- (19) No trees are to remain within ten feet (10') of the disposal area.
- (20) Septic tank(s) shall be located a minimum of ten feet (10') and disposal areas shall be located a minimum of twenty-five feet (25') from dwellings.
- (21) Septic tank(s) shall be located a minimum of fifty feet (50'), disposal area(s) shall be located a minimum of one hundred feet (100'), and building sewer(s) shall be located a minimum of twenty-five feet (25') from a well.
- (22) All septic disposal fields shall be constructed at least twenty-five feet (25') from excavated cuts (drop) greater than two feet (2').
- (23) Crushed stone filter material shall be NJDOT number 3, 4, or 24 size stone and be free of fines, dust, ashes, or clay.
- (24) There are currently no known off-site wells located within 100 feet and no off-site disposal fields within 50 feet of the proposed disposal field.
- (25) This design makes no representation as to the location and/or adequacy of the internal plumbing and electric service. The limits of this design are from the existing septic tank outlet to the disposal area.
- (26) This septic design has been based on the soil conditions and site constraints documented at the time of soil testing. If subsurface conditions present at the time of construction vary significantly from those documented during soil testing, the contractor shall immediately cease construction and notify the Engineer and the Health Department so that appropriate action may be taken.
- (27) This wastewater disposal system is designed to include the usage of a garbage grinder system (garbage disposal).
- (28) Neither Water Softener backwash nor Pool Filter backwash shall discharge into the septic system.

REVISION DESCRIPTION	DATE	APPROVED



**Douglas E Fine, P.E.**  
 Doug@DougFineNJ.com  
 908-399-4150

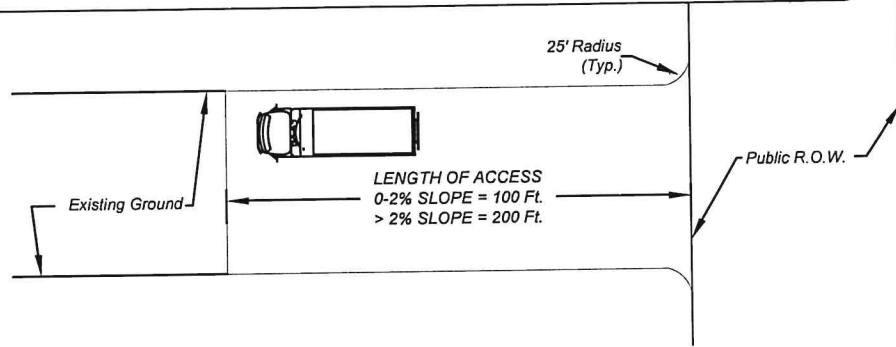
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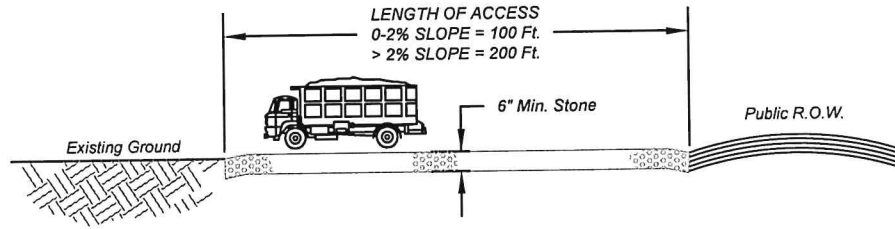
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			SHEET: 7 of 11

**DOUGLAS E. FINE, P.E.**  
 New Jersey PE License No. 24GE04311900

**SOIL EROSION & SEDIMENT CONTROL MEASURES – NOTES & DETAILS**



PLAN VIEW



PROFILE VIEW

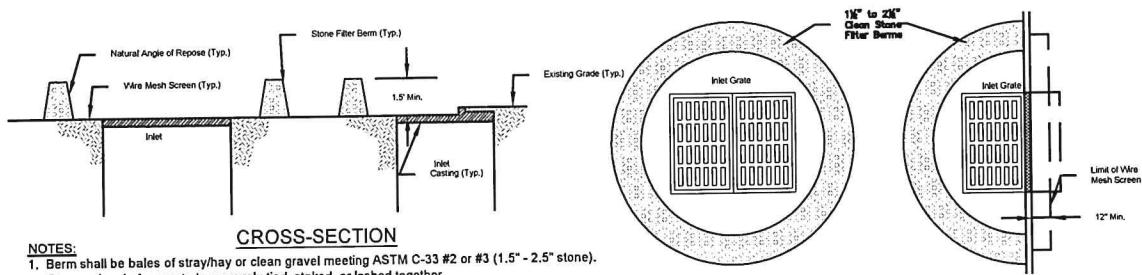
NOTES:

1. Stone is ASTM #2 or #3 (1.5" - 2") angular, not round.
2. Provide appropriate transition between stabilized construction entrance and public R.O.W.
3. If poor drainage conditions exist, underlay filter fabric on existing grade before placing stone.

MAINTENANCE

1. Periodic addition of stone to thickness and length to prevent flow of sediment or tracking.
2. All sediment tracked onto the public R.O.W. must be removed at the end of each day.

STABILIZED CONSTRUCTION ENTRANCE  
Not To Scale



NOTES:

1. Berm shall be bales of straw/hay or clean gravel meeting ASTM C-33 #2 or #3 (1.5" - 2.5" stone). Straw or hay bales are to be securely tied, staked, or lashed together.
2. Berm shall encircle the inlet and have a perimeter length of at least 4x the perimeter length of the storm sewer inlet.
3. A wire mesh screen with 1/2" openings shall cover the inlet and shall be anchored by the filter berm.

INLET PROTECTION DETAIL  
Not To Scale

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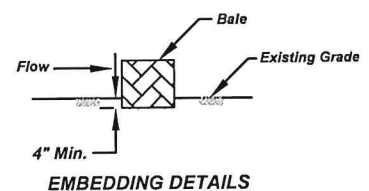
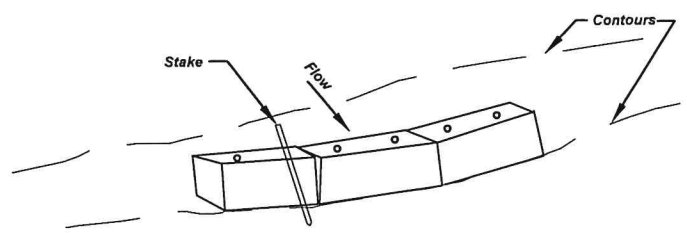
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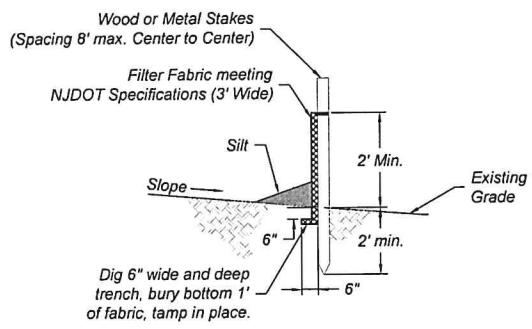
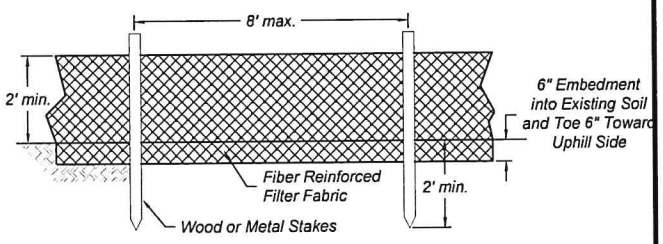
*Douglas E. Fine* 9/29/2021  
**DOUGLAS E. FINE, P.E.**  
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**SOIL EROSION & SEDIMENT CONTROL MEASURES – NOTES & DETAILS**



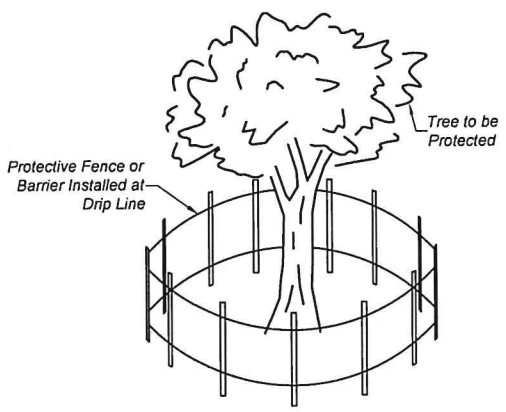
- ANCHORING DETAILS**
- NOTES:**
1. All bales shall be tied and staked along the contours.
  2. Bales shall be place in rows with ends abutting adjacent bales.
  3. Stakes shall be either 2" x 2" wooden, steel, or rebar stakes driven 1-1/2 to 2ft. into existing grade. (Two stakes per bale)
  4. Angle first stake toward previously laid bale.

**HAY BALE BARRIER**  
Not To Scale



- NOTES:**
1. Stakes shall be spaced 8' center to center or closer, extended 2' above and below grade.
  2. Filter Fabric shall be buried at least 6" deep in the ground and extended at least 2 ft. above the ground.

**SILT FENCE DETAIL**  
Not To Scale



**TREE PROTECTION DETAIL**  
Not to Scale

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BLOCK: 82.17			LOT: 39
DATE: 9/29/2021			DATE: SEPT. 29, 2021
DOUGLAS E. FINE, P.E. New Jersey PE License No. 24GE04311900			SHEET: 9 of 11

# SOIL EROSION & SEDIMENT CONTROL MEASURES – NOTES & DETAILS

## GENERAL AGRONOMIC SPECIFICATIONS FOR LAWNS AND CONSTRUCTION SITES

- (1) All disturbed areas that are not being graded, not under active construction, or not permanently seeded within 30 days shall be temporarily stabilized as per specifications below.
- (2) All exposed areas which are to be permanently vegetated shall be seeded and mulched within 10 days of final grading.
- (3) Straw mulch (hay mulch may be substituted if approved by the District) is to be applied to all seeding at a rate of 1.5 to 2 tons per acre (approx. 100 to 130 bales per acre).
- (4) Mulch anchoring is required after mulching to minimize loss by wind or water. This shall be done using one of the methods (crimping, liquid mulch binders, nettings, etc.) in the "Standards for Soil Erosion and Sediment Control in New Jersey".
- (5) Existing weedy and poorly-vegetated areas with less than 75% perennial grass cover shall receive permanent stabilization (as specified below).
- (6) All bags shall be saved for lime, fertilizer, seed, and liquid mulch binder (if used as mulch anchoring method). Such proofs shall be submitted to the district inspector for verification of materials and quantities used for all seeding.

## SEED-BED PREPARATION FOR ALL SEEDINGS

- (1) **SUB-SOIL PREPARATION:** Immediately prior to seeding and topsoil application, the surface should be scarified to a depth of 6-12" where there has been soil compaction (e.g. areas of heavy construction traffic). This practice is to be applied to all compacted areas where there is no danger to underground utilities (cables, irrigation systems, etc.).
- (2) **TOPSOILING:** Areas to be seeded shall have a minimum of 5" of friable, loamy topsoil free of objectionable weeds, stones and debris.
- (3) **FINAL GRADING:** Grading shall be smooth of ruts and free of objectionable stones, depressions, vehicle tracks and rough edges. There shall be positive drainage away from all buildings and dwellings. Refuse from seedbed preparation (roots, sticks, stones, construction debris) must be disposed of properly.
- (4) **LIMING/FERTILIZING:** Apply limestone and fertilizer to soil test recommendations or as follows:
  - A. Lime shall applied at the rate of 2 tons (4,000 lbs) per acre. Lime may be any product type as long as the CCE Calcium Carbonate Equivalency = 2 tons/acre. Pelletized and liquid products may be preferred because of their lack of dust and ease of handling but must meet the fore-mentioned criteria.
  - B. Starter fertilizer, specified as 10-20-10, shall be applied at 500 lb. per acre.
  - C. Lime and fertilizer shall be worked into the soil to a depth of 4 inches.

## TEMPORARY SEEDING

Temporary seeding shall be used on all disturbed areas where permanent stabilization will not be accomplished for a period up to 6 months.

Product	Rate	Recommended optimum seeding dates
Perennial Ryegrass	100 lbs. per acre	3/15 – 5/15 & 8/15 – 10/1
Spring Oats	86 lbs. per acre	3/15 – 6/1 & 8/1-10/1
Winter Cereal Rye	112 lbs. per acre	8/1 – 11/15
Winter Barley	96 lbs. per acre	8/15 – 10/1
Pearl Millet	20 lbs. per acre	5/15 – 8/15
German or Hungarian Millet	30 lbs. per acre	5/15 – 8/15

## TEMPORARY STABILIZATION WITH MULCH ONLY

Straw mulch (hay mulch may be substituted if approved by the District) shall be spread uniformly at the rate of 2 to 2.5 tons per acre (total ground surface coverage). This practice is limited to periods when vegetative cover can not be established due to the season or other conditions. Mulch must be anchored in accordance with New Jersey Standards for Soil Erosion and Sediment Control. Mulch alone can only be used for short periods and will require maintenance and renewal. Other mulch materials may be utilized if approved by the District.

## STABILIZATION WITH SOD

Stabilization with sod is permitted in areas where maintenance and irrigation are adequate to insure proper establishment and longevity. Seedbed preparation shall be consistent with any other stabilization requirements. (Lime and fertilizer bags are to be retained for district inspections). On slopes greater than 3:1, sod must be properly anchored to the slope in accordance with the NJ Standards for Soil Erosion and Sediment Control.

## PERMANENT SEEDING

- (1) Seed shall be incorporated into the soil 1/4" – 1/2".
- (2) Lawn seedings shall be a mixture of bluegrasses, turf-type fescues, and turf-type perennial ryegrasses to insure longevity, tolerance, and durability. No seed shall be accepted with a germination test date of more than 12 months old unless retested.
- (3) Professional seed mixtures are recommended rather than seed mixing by contractor.
- (4) Seed mixture (as specified below) shall be applied at a minimum rate of 200 lb. per acre of perennial seed.
- (5) Optimum seeding period for Hunterdon County is from March 1 to May 15 and August 15 to October 1. Outside of those periods, the seeding rates shall be increased by 50% (i.e.: 300 lb. per acre of perennial seed instead of the required 200 lb. per acre during optimum periods).
- (6) Seedings shall receive an application of fertilizer such as 10-10-10 or equivalent at 400 lb. per acre approximately 6 months after first application.

## SEEDING MIXTURE FOR GENERAL SEEDING - (Example: lawns)

40% turf-type tall fescue 10% creeping red fescue 10% chewing fescue 10% Kentucky bluegrass 30% turf-type perennial ryegrass	OR	60% Kentucky bluegrass 20% turf-type perennial ryegrass 20% chewing fescue
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## SEEDING MIXTURE FOR HIGH TRAFFIC & CRITICAL AREAS - (example: waterways, diversions, etc.)

80% turf-type tall fescue 10% Kentucky, bluegrass 10% turf-type perennial ryegrass
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Other seed mixtures, such as blended varieties of perennial turf-type ryegrass, turf-type tall fescues, or bluegrasses may also be acceptable if approved by the District.

		<b>SEPTIC SYSTEM ALTERATION DESIGN</b>	
		DRAWN BY: <i>DEF</i>	DESIGNED BY: <i>DEF</i>
		CHECKED BY: <i>DEF</i>	MUNICIPALITY: <b>CLINTON TWP.</b>
		BLOCK: <b>82.17</b>	
		LOT: <b>39</b>	
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		9/29/2021 <b>DOUGLAS E. FINE, P.E.</b> New Jersey PE License No. 24GE04311900	
		P.O. Box 253 Three Bridges NJ 08887 DougFineEngineering	
		Certificate of Authorization No. 24GA28321700	

**SOIL EROSION & SEDIMENT CONTROL MEASURES – NOTES & DETAILS**

**SOIL EROSION AND SEDIMENT CONTROL GUIDELINES FOR SEPTIC SYSTEM INSTALLATION AND ALTERATIONS IN HUNTERDON COUNTY, NJ**

1. The Hunterdon County Soil Conservation District requires an advanced 48-hour written notification prior to the start of any land disturbance. A failure of this notification prior to the start of construction will result in the issuance of a Stop Construction Order and may be cause for legal action. Notice may be faxed to (908) 788-0795 or mailed to:  
**Hunterdon County Soil Conservation District  
 687 Pittstown Road, Suite #1  
 Frenchtown, NJ 08825**
2. Land disturbance and construction work start includes any demolition or clearing that takes place on the project site. Appropriate Soil Erosion and Sediment Control measures must be installed and maintained.
3. A sediment barrier of either silt fence or haybales (properly staked and embedded) must be installed below (downslope side) of the septic system construction area.
4. Stone tracking pads or other measures approved by the Soil Conservation District are to be installed at all construction accesses to pavement. All stone tracking pads (stabilized construction entrance) are to be installed at a minimum of 100 ft. in length. Other reasonable methods or shorter lengths of tracking stone can be field determined and approved by the District Inspector. The contractor must keep all public roads and paved surfaces scraped and cleaned of sediment and tracking. All sediment spilled, dropped, washed, or tracked onto roadways (public or private) or other impervious surfaces must be removed immediately.
5. Stormwater inlets near the septic system construction area and not in an active public roadway may require protection if directed by the District inspector. Stormwater inlet protection may include haybales or clean stone berms (stone sized 1 1/2"-2 1/2") that completely encircle, but not block the inlets.
6. All trees that are to be protected from injury during construction of the septic system are to be adequately marked in fenced-off prior to construction and maintained during construction. Fencing/markings are to be erected around and outside of the tree dripline and root area.
7. If the excavated pit or trench area requires pumping/dewatering of rainfall or runoff, proper procedures are to be followed to remove suspended sediments in the water prior to discharge to downstream areas and/or watercourses. In most cases, a silt sack or haybale/stone ring can be used at the discharge end. The District has further information on these methods found in the Standards for Soil Erosion and Sediment Control in New Jersey, pages 14-1 to 14-7. Do not direct discharge pump water without employing an approved method. Call the District if you have questions. Health Department requirements are to be followed for dewatering of active disposal beds or leach field areas or any other area that may have contaminants other than sediment.
8. Steep banks, wetland buffers, waterways, and other sensitive areas are to be avoided by construction traffic. Wetland buffer and wetland areas are to be adequately marked in field prior to construction and maintained during construction.
9. If excess fill or any other material is to be removed from the site, the project owner/applicant shall be responsible for its proper disposal and will notify the Hunterdon County Soil Conservation District as to the planned disposal site location. Removal of any soil material from the septic system construction site without written authorization from the Hunterdon County Soil Conservation District is a violation of the state Soil Erosion and Sediment Control Act. A EIL Disposal Worksheet and Authorization is required prior to any excess soil material leaving the site. The same applies to additional soil material (other than select fill or stone from an operating quarry) to be brought onto the septic system site. Health Department requirements are to be followed for hauling off of material from a previous disposal bed or leach field.
10. Health Department rules and regulations on grading and slope are to be followed for the area of the septic system and/or mound. For all other disturbed areas, the maximum allowable vegetated slope is 2:1. Slopes in excess of 3: 1 (between 2:1 and 3:1) require temporary erosion control matting, such as excelsior "curlex" or equivalent, for stabilization. The matting is to be properly installed with specified overlap, check slots, anchoring spacing, and anchoring device type, gauge, and size.
11. The Hunterdon County Soil Conservation District certifies and inspects for soil erosion and sediment control measures and related resources only. District certification does not excuse or supersede any requirements, procedures, or permits of any other regulatory agency such as NJDEP, municipality, county, etc.
12. Hydroseeding/Hydromulching are not acceptable practices in Hunterdon County due to the high failure rate of seedings, steep topography, poor seed-to-soil contact and poor ground surface coverage. All seed must be incorporated into the soil. Hydroseeding equipment may be used in conjunction with straw/hay mulch for the purpose of anchoring the mulch with liquid mulch binders.
13. The project applicant and contractor are to be aware that additional Soil Erosion and Sediment Control measures may be required by the Soil Conservation District if field conditions or unforeseen situations warrant them.
14. The owner/applicant acknowledges that a written Report of Compliance is required from the District at the completion and permanent stabilization of the project. Failure receive the Report of Compliance is a violation of the Soil Erosion and Sediment Control Act and may be cause for court action and penalties, pursuant to N.J.S.A. 4:24-53.
15. It is the policy of the Hunterdon County Soil Conservation District to periodically evaluate all projects to determine if the costs for review and inspection exceed the paid fees. Prior to the fees being exceeded an additional fee will be assessed.

**OTHER IMPORTANT INFORMATION AND TERMS FOR SEPTIC SYSTEM INSTALLATION:**

**REPORTS OF COMPLIANCE:** These are issued when the entire disturbed area for the septic system is permanently stabilized. Permanent stabilization means that the entire project area or lot is final graded, topsoil ed, limed, fertilized, seeded and mulched.

**TOPSOILING:** Areas to be seeded should have a minimum of 5" of topsoil free of objectionable stones and debris.

**FINAL GRADING:** Grading is to be smooth of ruts and free of objectionable stones, depressions and rough edges. Conventional mowing equipment should be able to mow the resulting vegetation.

**PERMANENT SEEDING:** All areas are to be limed and fertilized as per the above Agronomic Specifications for Lawns and Septic Systems. The seed mixture is to consist of perennial lawn type seed. Seed mixtures that have a high percentage of annual seed (annual ryegrass, etc.), sometimes labeled "contractors mix;" are not acceptable. Certified seed is to be used. The seed, fertilizer, lime, etc. labels/slips are to be saved, so that the District can verify the mixture and the application rates. These labels/slips may need to be presented at the time of the compliance inspection.


**COMPLIANCE INSPECTION:** The owner/applicant is responsible for calling the District office to schedule a final compliance inspection, a minimum of 2 working days in advance. We cannot guarantee an inspection on a particular date if less scheduling notice is given. The owner/applicant is also responsible for canceling the inspection, if work (stabilization) is not 100 percent completed, or act of nature (rain, wind, etc.) has disrupted stabilization efforts. A reinspection fee may be assessed (as per District Fee Schedule) for each additional inspection required until the project is stabilized satisfactorily.

**TEMPORARY REPORTS OF COMPLIANCE:** Temporary Reports of Compliance are generally not a procedure for septic system installations; however, there may be times when it is impossible to complete the septic system and permanently stabilize within the 30-day period. The District accepts seedings (permanent stabilization) at all times of the year as long as the lot/project area can be properly final graded. When seeding out of the optimal seeding periods (March 1 - May 15 or August 15 - Oct. 1), seeding rates are to be increased by 50 percent. Regardless if the lot/project is temporarily or permanently stabilized, a temporary report of compliance is issued when a cash performance guarantee is posted to assure and guarantee stabilization during the winter months, starting November 1st and ending April 1st. The cash bond amount plus an administration fee is determined by the District Board, and is based on the amount of acres disturbed (one acre being the minimum and rounded to the nearest acre thereafter). Bonding is only for stabilization. If not permanently stabilized, the disturbed acreage must be mulched (as a minimum) and maintained throughout the winter months as a temporary stabilization practice. Other practices (silt fence, hay bales, etc.) may also be required if field conditions warrant.

<b>SEPTIC SYSTEM ALTERATION DESIGN</b>		
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<i>REVISION DESCRIPTION</i>	<i>DATE</i>	<i>APPROVED</i>



**Certificate of Authorization No. 24GA28321700**

**Douglas E Fine, P.E.**  
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*DEF* **9/29/2021**

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