

**NOTE A:**  
ALL PVC DRAIN PIPE SHALL BE SDR-35 WITH RUBBER GASKET JOINTS. BENDS IN PIPES NOT TO EXCEED 45°

**NOTE B:**  
UNDERGROUND SPRINKLER SYSTEMS SHALL NOT BE INSTALLED WITHIN 10' OF THE SEPTIC SYSTEM INCLUDING THE SEPTIC TANK.

**NOTE C: BEDROOMS AND SEPTIC SYSTEM SIZE (TANK AND LEACHING AREA)**  
IT IS THE RESPONSIBILITY OF THE OWNER/DEVELOPER TO VERIFY WITH THE HEALTH DEPARTMENT THE ACTUAL BEDROOM COUNT OF THE PROPOSED DWELLING. FLOOR PLANS SHOWING ALL LEVELS OF THE PROPOSED DWELLING WITH BATHTUB SIZES SHALL BE REVIEWED AND APPROVED BY THE HEALTH DEPARTMENT. ACCORDING TO THE HEALTH CODE, BATHTUBS OF 100-199 GALLONS REQUIRE AN INCREASE OF 250 GALLONS CAPACITY TO THE SEPTIC TANK AND BATHTUBS WITH VOLUME OF 200 GALLONS OR MORE REQUIRES AN INCREASE IN SEPTIC TANK CAPACITY OF 500 GALLONS.

**NOTE D:**  
THE CONTRACTOR SHALL DIG TEST PITS TO VERIFY THE DEPTH AND LOCATIONS OF EXISTING UTILITIES, SEWERS, AND STORM DRAINS IN SITE DISTURBANCE AREAS. ANY POTENTIAL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER IMMEDIATELY.

TEST PIT DATA  
PARCEL "A" KONANDREAS DRIVE, STAMFORD CONNECTICUT  
TEST PITS 101 - 110 CONDUCTED BY D'ANDREA SURVEYING & ENGINEERING, P.C.  
ON JULY 22, 2022 (ONLY TEST PITS 101 - 105 WITNESSED BY HEALTH DEPT. - JOSH POLUR)

Test Pit #101  
0" Topsoil  
8" Orange Brown Sandy Loam  
32" Tan Loamy Sand w/Boulders  
72" Mottles @ 32"  
No Water  
No ledge

Test Pit #102  
0" Topsoil  
14" Orange Brown Sandy Loam  
38" Tan Sandy Loam  
66" Mottles @ 38"  
No Water  
No ledge

Test Pit #103  
0" Topsoil  
8" Orange Brown Sandy Loam  
26" No Mottles  
No Water  
No ledge @ 26"

Test Pit #104  
0" Topsoil  
10" Orange Brown Sandy Loam  
48" Tan Sandy Loam  
66" No Mottles  
No Water  
No ledge

Test Pit #105  
0" Topsoil  
10" Orange Brown Sandy Loam  
40" Tan Loamy Sand and Gravel  
58" No Mottles  
No Water  
No ledge

Test Pit #106  
0" Topsoil  
12" Orange Brown Sandy Loam  
46" Tan Sandy Loam  
64" Mottles @ 46"  
No Water  
No ledge

Test Pit #107  
0" Topsoil  
8" Orange Brown Sandy Loam  
30" Tan Loamy Sand  
66" Mottles @ 30"  
No Water  
No ledge

Test Pit #108  
0" Topsoil  
10" Orange Brown Sandy Loam  
20" Tan Loamy Sand  
60" Mottles @ 56"  
No Water  
No ledge

Test Pit #109  
0" Topsoil  
10" Orange Brown Sandy Loam  
48" Tan Loamy Sand  
70" Mottles @ 48"  
No Water  
No ledge

Test Pit #110  
0" Topsoil  
8" Orange Brown Sandy Loam  
40" Grey Sandy Loam  
60" Mottles @ 40"  
No Water  
No ledge

TEST PIT DATA  
PARCEL "A" KONANDREAS DRIVE, STAMFORD CONNECTICUT  
TEST PITS 111 - 114 CONDUCTED BY D'ANDREA SURVEYING & ENGINEERING, P.C.  
ON OCTOBER 25, 2022 (ONLY TEST PITS 111-113 WITNESSED BY HEALTH DEPT.-JOSH POLUR)

Test Pit #111  
0" Topsoil  
14" Orange Brown Sandy Loam  
36" No Mottles  
No Water  
Ledge @ 36"

Test Pit #112  
0" Topsoil  
14" Orange Brown Sandy Loam  
32" Tan Loamy Sand  
45" No Mottles  
No Water  
Ledge @ 45"

Test Pit #113  
0" Topsoil  
12" Orange Brown Sandy Loam  
40" Tan Loamy Sand  
60" No Mottles  
No Water  
No ledge

Test Pit #114  
0" Topsoil  
8" Orange Brown Sandy Loam  
36" Tan Sand & Gravel  
80" No Mottles  
No Water  
No ledge

**APPLICANT INFORMATION:**  
CHRIS & MICHELLE MORTON  
335 ATLANTIC STREET  
APT. NO. 22R  
STAMFORD, CONNECTICUT 06901  
ACMORTON07@GMAIL.COM

**LEGEND:**

- EXISTING CONTOUR  
EXISTING SPOT ELEVATION  
EXISTING TOP/BOTTOM SPOT ELEVATION  
PROPOSED CONTOUR  
PROPOSED SPOT ELEVATION  
DECIDUOUS TREE  
CONIFEROUS TREE  
TREE TO BE REMOVED  
INSTALL TREE PROTECTION  
TEST PIT  
PERCOLATION TEST  
CATCH BASIN  
V.I.F.  
RD  
PVC  
A.O.B.E.  
CW  
BW  
CONSTRUCTION FENCING  
SILT FENCE  
OVERHEAD SERVICE WIRE  
UTILITY POLE  
WATER SERVICE  
PROPERTY LINE  
EXISTING RETAINING WALL

**TREE LEGEND**

- M - MAPLE  
O - OAK  
TR - TRIPLE  
TW - TWIN

**GENERAL NOTES**

- Existing features and topography were taken from a map entitled, "Topographic Survey of property at Konandreas Drive in Stamford, Connecticut, prepared for Chris Morton, Michelle T. Morton, as prepared by D'Andrea Surveying & Engineering, P.C.", and dated December 11, 2023.
- The subject parcel lies within Zone X FIRM Community-Panel Number 09001C0364F Map revised June 18, 2010, published by the Federal Emergency Management Agency (FEMA).
- Contours and elevations depicted hereon are based on the North American Vertical Datum of 1988 (NAVD88).
- The limit of wetland soils was tagged by Soil Science and Environmental Services, Inc. on February 7, 1996.
- In accordance with Connecticut Public Act 87-71 and Connecticut General Statutes (CGS) Sections 16-345 through 16-359, the contractor shall verify the depth and location of all utilities prior to commencing construction, and shall contact "Call Before You Dig, Inc." at 1.800.922.4455, 48 hours prior to commencing construction.
- The information given on this plan in respect to the location of subsurface structures and utilities indicates only that the structures and utilities exist and no responsibility is assumed by the engineer for the accuracy of the locations shown. Utility information is not guaranteed complete or accurate.
- All construction shall comply with applicable sections of the State of Connecticut, local, and International Building codes, and those criteria shall take precedent over these plans.
- The Engineering Bureau of the City of Stamford shall be notified three days prior to the commencement of any work within the City of Stamford Right-of-Way.
- This property will be served by a proposed well and a subsurface sewage disposal system.
- The septic system information depicted hereon was transcribed from City of Stamford Health Department records.
- Existing utilities in conflict with the proposed development as depicted on this plan shall be relocated as directed by the appropriate utility company and/or the owner. The contractor shall excavate test pits as required to verify the location and depth of utilities where conflicts may exist.
- Certification will be required by a Professional Engineer licensed in the State of Connecticut that work has been completed in compliance with the approved drawings. An Improvement Location Survey, prepared by a licensed Land Surveyor in the State of Connecticut, will be required for submission.
- Refer to sheets 2 and 3 of 4 for construction notes and details.
- Upon completion of site work contractor shall coordinate with the project surveyor to find and mark existing Conservation Monumentation and to set and survey markers along said easement anywhere conservation easement sign and post shall be set. Contractor shall install all noted sign and posts in accordance with detail on sheet 3 of 4.

**PHOTO RECORD  
(CONTRACTOR TAKE NOTICE)**

THE SITE CONTRACTOR SHALL BE RESPONSIBLE TO TAKE SITE PICTURES OF ALL THE FOLLOWING MILESTONES AND TO NOTIFY THE PROJECT ENGINEER OF EACH MILESTONE BEING REACHED. THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER WITH A DIGITAL LIBRARY OF THE PHOTOGRAPHY AS THE PROJECT PROGRESSES WITH A COMPLETE LIBRARY AT THE END OF THE SITE WORK PHASE.

PROJECT MILESTONES	
1	E & S Controls at start of construction
2	Protection and/or installation of each non-structural LID BMP
3	Soils verification for each detention/retention/structural LID BMP
4	Amended soils verification for each BMP
5	Each detention/retention/structural LID BMP during construction
6	Each detention/retention/structural LID BMP prior to backfilling/completion
7	Each detention/retention/structural LID BMP at completion
8	Final site inspection throughout site

**MAINTENANCE PLAN:**

- Twice per year in late Fall and late Spring, inspect all roof gutters, junction boxes, yard drains, and the retention systems.
- Remove accumulated silt and debris from roof gutters, junction boxes, yard drains, and catch basins.
- Repair all drainage structures as necessary.
- Dispose of all debris and silt in approved disposal areas. There shall be no dumping of silt or debris into or in proximity to any inland or tidal wetlands areas.

CONTOUR INTERVAL = ONE FOOT

1 INCH = 20 FEET

SCALE

20 0 20

IN FEET

**CONSTRUCTION STAGING**

- Install sedimentation and erosion controls.
- Mark and cut trees to be removed.
- Install tree protection as required.
- Strip topsoil and stockpile it with appropriate sedimentation control measures.
- Excavate for and construct proposed foundation.
- Construct dwelling.
- Backfill and rough grade around building foundation, stabilize all slopes.
- Install drainage system.
- Install septic system and utilities.
- Fine grade and stabilize all slopes.
- Landscape.
- Remove sedimentation and erosion controls.

2	3-15-24	WATERSHED BOUNDARY AND SETBACKS
1	2-20-24	ADD LOW RETAINING WALL
0	1-22-24	ISSUE TO EPB & SHD
REV.	DATE	DESCRIPTION
LEONARD C. D'ANDREA, CT PE No. 14869		
Josh Polur	3-15-24	ENGINEER

ONLY COPIES OF THIS MAP, BEARING AN ORIGINAL IMPRINT OF THE ENGINEER'S EMBOSSED SEAL SHALL BE CONSIDERED TO BE TRUE, VALID COPIES.

**D'ANDREA SURVEYING & ENGINEERING, PC**

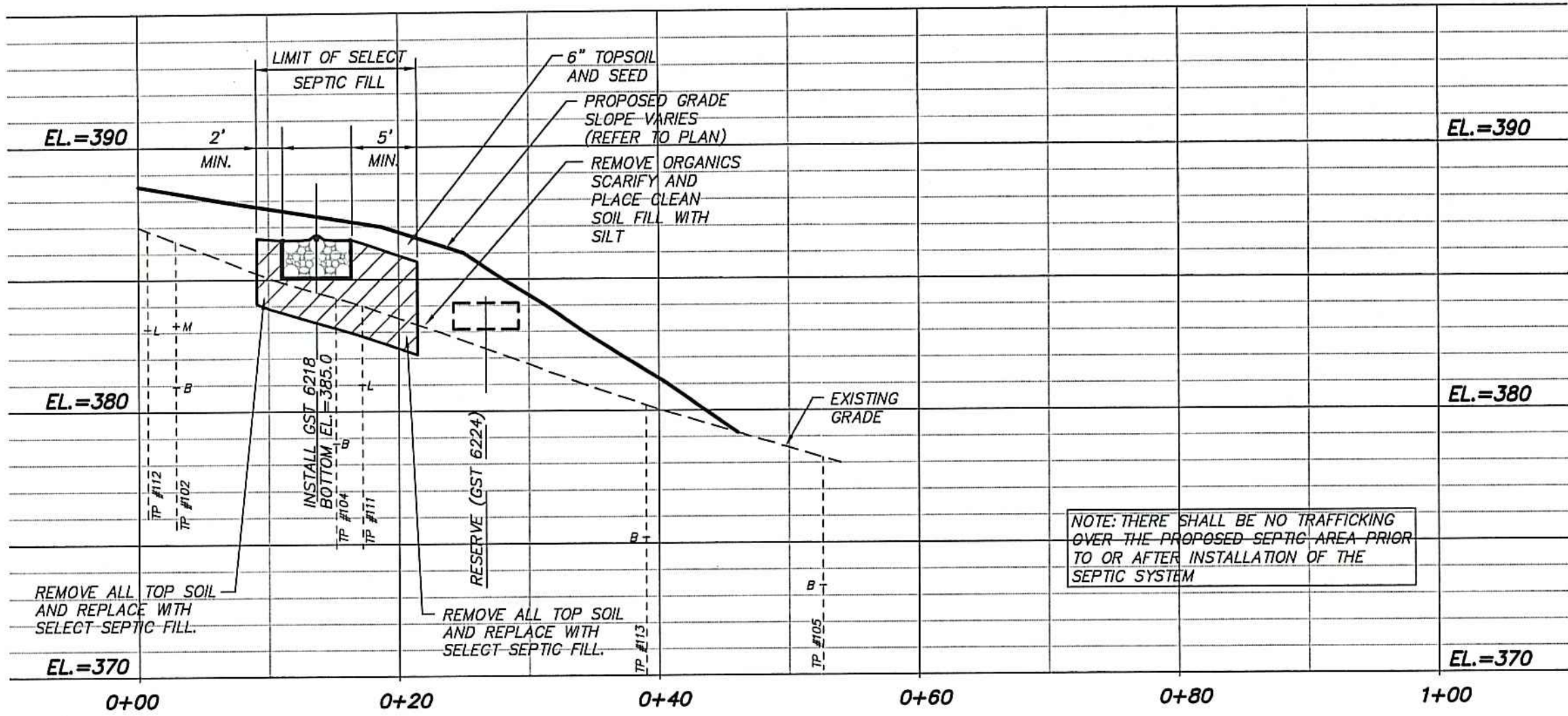
- LAND PLANNERS
- ENGINEERS
- SURVEYORS

P.O. BOX 549  
RIVERSIDE, CT 06878

6 NEIL LANE  
TEL. 637-1779

PROJECT	SINGLE FAMILY DWELLING
PREPARED FOR	CHRIS MORTON MICHELLE T. MORTON
LOCATION	11 KONANDREAS DRIVE STAMFORD, CONNECTICUT
1 OF 4	DEVELOPMENT PLAN





SECTION X-X

SCALE:  
HORIZONTAL 1"=10'  
VERTICAL 1"=5'

TEST PIT LEGEND:  
GW - GROUNDWATER  
M - MOTTILING  
B - BOTTOM  
L - LEDGE

REPLACEMENT AND CONSTRUCTION NOTES:

- Contours and elevations shown hereon are based on the North American Vertical Datum of 1988 (NAVD88). The surveyor shall transfer a control benchmark into the working area after site preparation is complete.
- In accordance with Connecticut Public Act 87-71 and Connecticut General Statutes (CGS) Sections 16-345 through 16-359, the contractor shall verify the depth and location of all utilities prior to commencing construction, and shall contact "Call Before You Dig, Inc." at 1.800.922.4455, 48 hours prior to commencing construction.
- Earth material used to cover the sewage disposal system shall be free of large stones, masonry, stumps or construction debris.
- Machinery that may disturb the alignment of the disposal system shall not be allowed on the disposal area.
- No permanent structure shall be constructed over the code complying area. There shall be no filling or earth removal in the code complying area. The code complying area shall remain in its natural condition unless noted otherwise.
- All construction shall comply with applicable sections of the State of Connecticut and City of Stamford Health codes.
- D'Andrea Surveying & Engineering, P.C. will not be responsible for the performance of the system unless constructed according to design as it may be amended.
- Areas disturbed during construction shall be regraded, seeded and mulched, or planted, for permanent stabilization as soon as practical after construction.
- "Select Septic Fill Material" shall be placed in 8" to 12" lifts and compacted. It shall be comprised of clean sand, or sand and gravel (bank run gravel), free from organic matter and foreign substances. The select fill shall meet the following requirements unless otherwise approved by a professional engineer for use within the leaching area:  
The select septic fill shall meet the requirement specified in Section VI A of the State of Connecticut Public Health Code Technical Standards.  
Prior to the placement of select fill, the contractor shall, at his expense, provide to the certifying Engineer for approval and to the local Health Department a certified lab analysis of the gradation of select fill and the characteristics of compaction. The percolation rate of the select fill shall be in accordance with the Health Code and approved by the design engineer (1" in 10 min.). A percolation test shall be required if there is more than 12" depth of select fill.

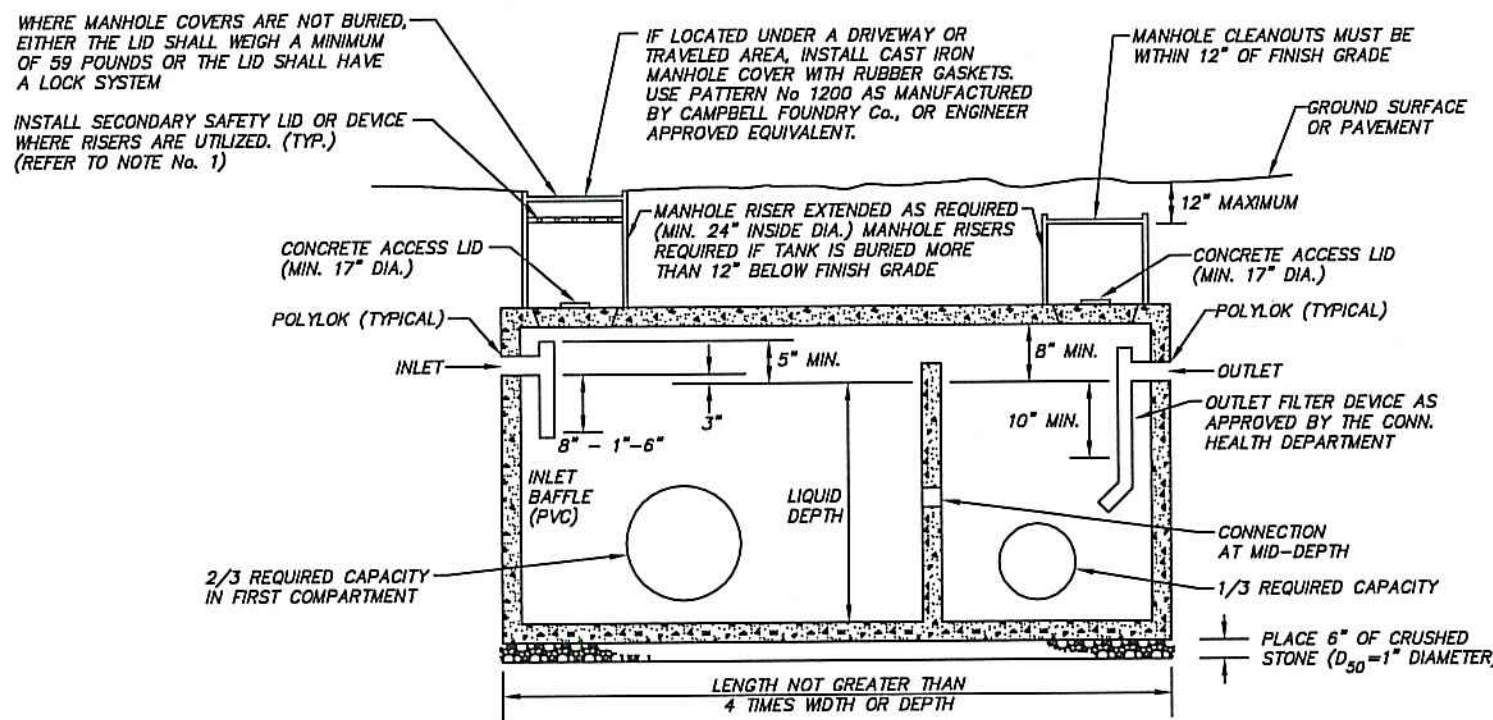
Percent Passing		
Sieve Size	Wet Sieve	Dry Sieve
#4	100	100
#10	70-100	70-100
#40	10-50	10-75
#100	0-20	0-5
#200	0-5	0-2.5

\*\* Percent passing the #40 sieve can be increased to no greater than 75% if the percent passing the #100 sieve does not exceed 10% and the #200 sieve does not exceed 5%.

The licensed installer is responsible for preparing the leaching area with necessary select fill. The topsoil in the leaching system area must be removed and the subsoil scarified prior to select fill placement unless otherwise directed by the design engineer. The installer shall take the necessary steps to protect the underlying naturally occurring soil from over compaction or damage. Select fill shall extend a minimum of five (5) feet laterally in all directions beyond the outer perimeter of the leaching system.

- This system is not designed to accept the wastes from garbage disposal units, backwash from water treatment devices, or discharge from whirlpool type baths greater than 99 gallons.
- Any change in the location or design of the system without prior approval of the design engineer is not permitted.
- The installer shall be licensed by the State of Connecticut and shall notify D'Andrea Surveying & Engineering, P.C. and the City of Stamford Health Department 48 hours prior to starting, and prior to each phase of construction. The licensed installer shall obtain and pay for a "permit to construct" from the Stamford health department, prior to starting construction. If the installer does not notify the Health Department the system will not be certified.
- The new septic tank shall be a 1250 gallon tank with baffle and filter. The tank shall be designed for H-10 loading as manufactured by Eastern Precast Co. Inc., or approved equal.
- Final location of the septic tank shall be approved by D'Andrea Surveying & Engineering, P.C. prior to commencing construction.
- Manholes on the septic tank, if located under a driveway or traveled way, shall have bolted manhole covers with rubber gaskets. Service access manholes on the septic tank shall be set to grade.
- Leaching structures shall be as specified.
- Installation of the septic system shall be inspected in progress by a Connecticut registered licensed professional engineer and an as-built plan certified by a professional engineer, shall be submitted to the City of Stamford Health Department before a "Permit to Use and/or Operate" is issued.
- The licensed septic system installer shall install the septic system in accordance with the approved plan and the "Permit to Construct" from the local Health Department. Any changes must be approved by the Engineer and the local Health Department.
- All PVC pipe shall conform to ASTM D-3034 standard specification for type PSM-Poly Vinyl Chloride (PVC) sewer pipe and fittings or approved equal (SDR-35) except where noted otherwise.
- Pipe from the house to the septic tank shall be 4" diameter SCH 40 PVC with solvent weld joints. Pipe shall conform to ASTM D 1785.
- Soil tests were conducted as noted.
- There shall be no part of a septic system located within 75 feet of a well when the well is located upgradient from the septic system.  
There shall be 100 feet separating any part of a septic system and a well when the septic system is located upgradient from the well.

- The separating distance between a septic system and a building shall be: 15 feet without footing drains on the building, 25 feet with footing drains on the building if it is located upgradient from the septic system and 50 feet with footing drains on the building if the building is located downgradient from the septic system.
- All distribution boxes shall be designed and constructed for H-10 loading as manufactured by Eastern Precast Co. Inc., or approved equal.
- All distribution boxes shall be leveled and installed on a minimum of twelve (12) inches of crushed stone.
- Prior to commencing construction, all portions of the septic system shall be clearly marked and enclosed using snow fencing so that they are not subject to H-20 loading from construction equipment or vehicles or other heavy loads from construction activities.
- Any underground drain such as footing or roof drains which discharge onto the subject parcel or within 25 feet upgradient and 50 feet downgradient of the proposed septic system shall be relocated using SDR-35 pipe or eliminated with approval of the supervising engineer.
- No part of the septic system shall be installed within 10 feet of any water distribution line.
- This property will be served by a private well.
- Select septic fill shall be spread on the septic area with a small crawler tractor or other machinery approved by the design engineer.
- Final elevation of the proposed septic tank shall be determined in the field with the approval of the design engineer.
- Underground liquid fuel storage tanks on this property are prohibited. Propane tanks are not prohibited.
- All drains within 5' to 25' of any part of the septic system shall be "tight pipe" in compliance with the requirements of the Health Code. All drains must maintain a 5' min. separation to any part of a septic system. All drains existing or proposed must meet the requirements noted, or they shall be relocated or replaced A.O.B.E.
- Conduits and drains within 5'-25' of septic system shall not be backfilled with sand, gravel or other free draining material.

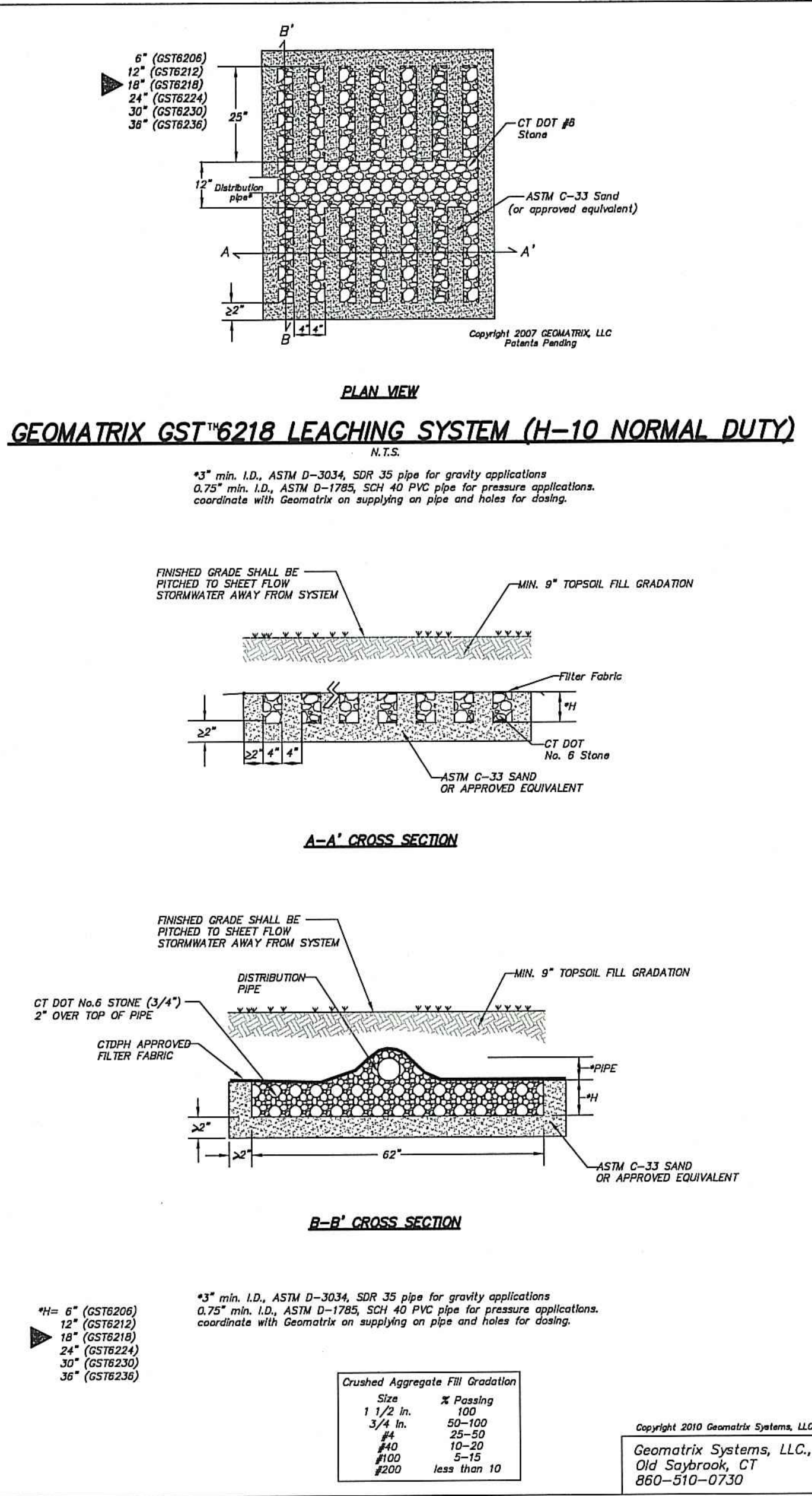


TYPICAL SEPTIC TANK DETAIL

N.T.S.

TANK SIZE GALLONS	1250
DESIGN LOADING	H-10

- NOTE:
- SEPTIC TANK TO COMPLY WITH JANUARY 2023 REVISIONS OF THE CONNECTICUT HEALTH CODE.
  - SEPTIC TANK TO COMPLY WITH ASTM C-1227, WITH EXCEPTIONS AS ALLOWED BY THE CONNECTICUT HEALTH CODE.
  - BY EASTERN PRECAST OR APPROVED EQUAL.



SYSTEM ELEVATIONS

SEPTIC TANK (AND PUMP CHAMBER, IF REQUIRED)

INV. EL. OUT OF DWELLING (FT.)	INV. EL. INTO SEPTIC TANK (FT.)	INV. EL. OUT OF SEPTIC TANK (FT.)	INV. EL. INTO PUMP CHAMBER (FT.)	INV. EL. OUT OF PUMP CHAMBER (FT.)
388.5	387.25	387.0	---	---

NOTE:  
INSTALLER TO VERIFY  
SEPTIC TANK ELEVATIONS  
WITH ENGINEER PRIOR TO  
START OF CONSTRUCTION

DIST. BOX	DISTRIBUTION BOX		GALLERY	
	INV. EL. INTO DIST. BOX (FT.)	INV. EL. TO LEFT TO RIGHT GALLERY (FT.)	INV. EL. TO LEFT GALLERY (FT.)	BOTTOM OF GALLERY EL. (FT.)
DB #1	386.6	---	386.5	386.5

\* LOOKING DOWN-GRADIENT FROM DISTRIBUTION BOX

PERCOLATION TEST WAS CONDUCTED  
ON NOVEMBER 7, 2022 BY  
D'ANDREA SURVEYING & ENGINEERING, P.C.  
TEST HOLES WERE PRESOAKED  
DEPTH OF TEST HOLE: "A" = 24"  
DEPTH OF TEST HOLE: "B" = 26"

PERC TEST "A-1"			
TIME (MIN)	SCALE (IN)	DROP (IN)	RATE (IN/MIN)
0	9	4 4/8	
10	13 4/8	2 1/8	1" IN 9.4 MIN
30	15 5/8	2 1/8	1" IN 9.4 MIN
50	17 6/8	2 1/8	1" IN 9.4 MIN
REFILL			
0	11	2 7/8	1" IN 7.0 MIN
20	13 7/8	2	1" IN 10.0 MIN
40	15 7/8	1 7/8	1" IN 10.7 MIN
60	17 6/8		USE-1" IN 20.0 MIN

SEPTIC SYSTEM HYDRAULIC LOADING AND ANALYSIS:  
Proposed (5) bedroom dwelling

SEPTIC TANK:  
Proposed 1250 gallon septic tank

PERCOLATION RATE:  
Use 1" in 20 minutes.

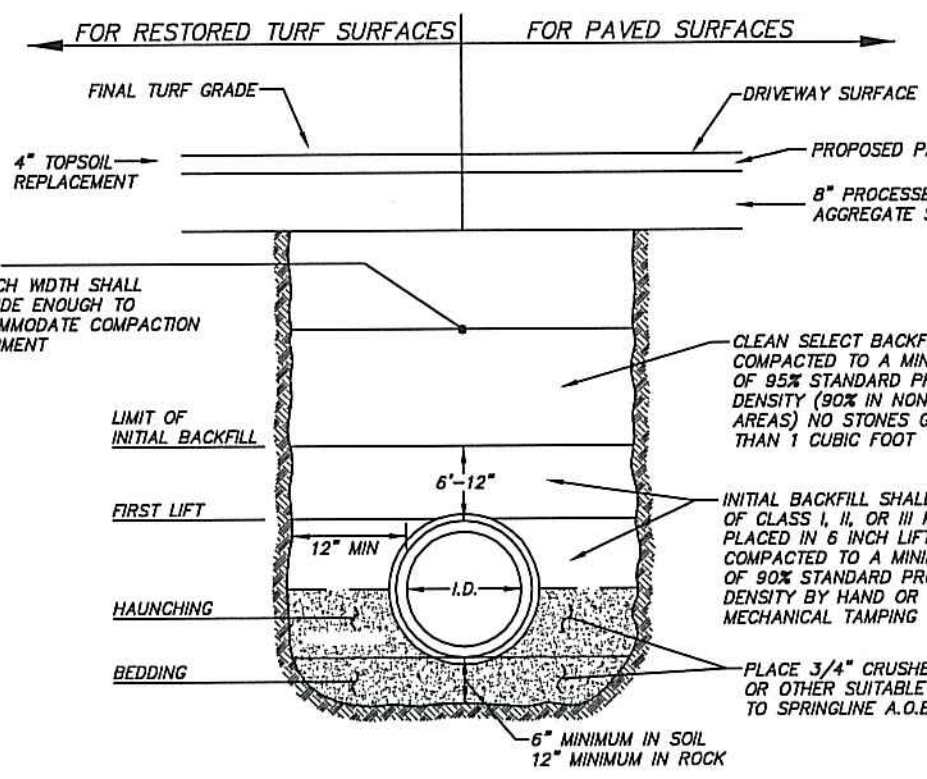
MINIMUM EFFECTIVE LEACHING AREA:  
Proposed 5 bedroom design requires 900 square feet of leaching area.  
This system provides 924 square feet of effective leaching area.

LEACHING AREA:  
Use Geomatrix GST 6218 (14.0 sf/lf).  
Lineal feet of galleries required:  $900 \text{ sf} = 64.3 \text{ lf}$   
14.0 sf/lf  
Use:  $2 \times 33' = 66' \times 14.0 \text{ sf/lf} = 924 \text{ sf of leaching area.}$

MINIMUM LEACHING SYSTEM SPREAD(MLSS): PRIMARY

Average Slope:  $\frac{385-380}{33} = 15.2\%$   
Hydraulic Factor (HF): \*\*Average Restrictive Layer @ 54"\*\*: HF = 10  
Flow Factor (FF): 5 bedrooms = 2.0  
Percolation Factor (PF): PF = 1.25 (Percolation rate: 1" in 20 minutes)  
MLSS = (HF)\*(FF)\*(PF) = (10)(2.0)(1.25) = 25.0 lf (Required)  
Leaching System Spread Provided =  
\*\* CONVERGING CONTOURS =  $(50+66)/2 = 58 \text{ LF (MLSS PROVIDED)} > 25 \text{ LF}$   
(REFER TO PLAN VIEW)  
Stacking Analysis: None Required  
\*\*Average Depth to Restrictive Layer  
UPPER: 36" (TH-111) LOWER: 58" (TH-105)  
66" (TH-104) 60" (TH-113)  
45" (TH-112) 118/2 = 59.0"  
147/3 = 49"  
AVERAGE RESTRICTIVE LAYER =  $(49+59)/2 = 54"$

RESERVE LEACHING AREA:  
Use Geomatrix GST 6218 (14.0 sf/lf).  
Lineal feet of galleries required:  $900 \text{ sf} = 64.3 \text{ lf}$   
14.0 sf/lf  
Use:  $2 \times 33' = 66' \times 14.0 \text{ sf/lf} = 924 \text{ sf of leaching area.}$



DETAIL FOR PVC SANITARY SEWER AND PVC/CPP STORM DRAIN INSTALLATION

N.T.S.

- NOTES:
- REFER TO ASTM D2321 (STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWER AND OTHER GRAVITY-FLOW APPLICATIONS) FOR TRENCHING SPECIFICATIONS.

D'ANDREA SURVEYING & ENGINEERING, PC

• LAND PLANNERS  
• ENGINEERS

P.O. BOX 549  
RIVERSIDE, CT 06878

SURVEYORS  
6 NEIL LANE  
TEL. 637-1779

PROJECT  
SINGLE FAMILY DWELLING

PREPARED FOR  
CHRIS MORTON  
MICHELLE T. MORTON

LOCATION  
11 KONANDREAS DRIVE  
STAMFORD, CONNECTICUT

2 OF 4  
SEPTIC NOTES & DETAILS

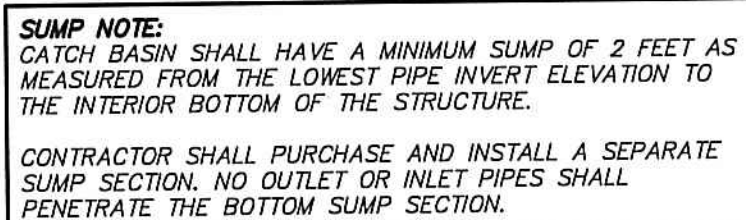
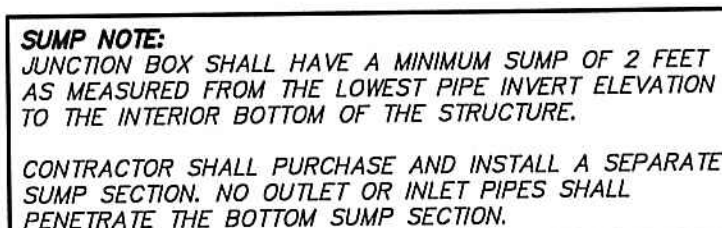
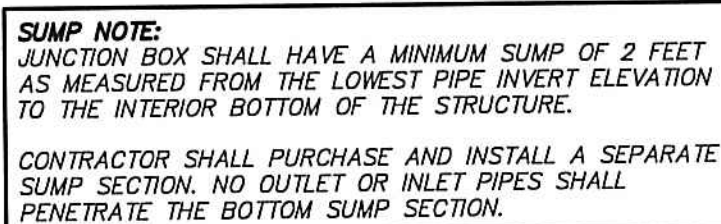
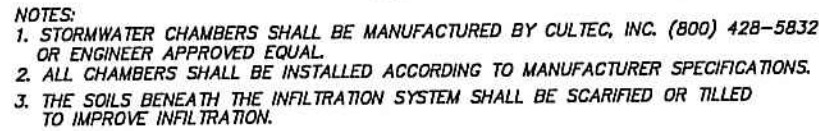
REV.	DATE	DESCRIPTION
0	1-22-24	ISSUE TO EPB & SHD
1	1-22-24	LEONARD C. D'ANDREA, CT PE No. 14869 ENGINEER

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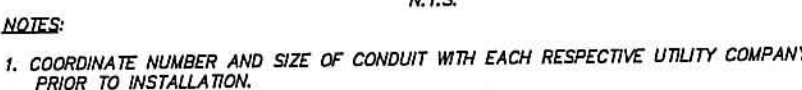
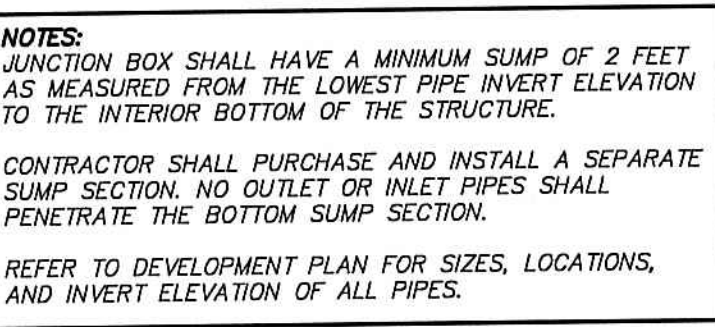


1. In accordance with Connecticut Public Act 87-71 and Connecticut General Statutes Sections 16-345 through 16-359, the owner or the contractor shall be required to verify the depth and location of all utilities prior to commencing construction, and shall contact "Call Before You Dig, Inc.", at 1-800-922-4455, 48 hours prior to commencing construction for mark out of underground utilities.
2. The contractor shall be solely responsible to coordinate his work with the work being done by others. The contractor shall likewise bear the responsibility for delays or other factors related to his work by others. No claims shall be allowed due to the contractor's failure to adequately coordinate such work.
3. THE CITY OF STAMFORD ENGINEERING BUREAU SHALL BE NOTIFIED THREE DAYS PRIOR TO THE COMMENCEMENT OF EACH PHASE OF CONSTRUCTION AFFECTING THE CITY RIGHT-OF-WAY.
4. All construction shall comply with applicable sections of the State of Connecticut, Local, and International Building codes, and those criteria shall take precedent over these plans.
5. All construction shall be inspected by a professional engineer prior to backfill and as the work progresses.
6. The project engineer shall be notified a minimum of three working days prior to the commencement of each phase of construction.
7. Appropriate measures shall be taken to control any sedimentation and erosion which may result during construction.
8. All excavated material shall be stockpiled and contained on-site within silt fencing. The contractor shall be responsible for the removal of all excess material excavated during construction. All excess material shall be removed in a careful and environmentally sound manner and shall be disposed of legally off-site.
9. All specimen trees shall be protected during the construction period, except those specifically designated to be removed in accordance with generally accepted standards.
10. The proposed building shall be designed by an architect in order to conform with current applicable zoning setback criteria and regulations, and a building permit shall be obtained prior to commencing construction.
11. Existing utilities in conflict through or above this parcel shall be relocated as directed by the appropriate utility commission or the owner. The contractor shall excavate test pits to verify the location and depth of utilities where conflicts may exist.
12. Pavement replacement shall be bituminous concrete, placed in accordance with the City of Stamford standards and/or Connecticut State Highway specifications.
13. Shoulders and disturbed areas shall receive four inches of topsoil; fine graded and seeded as soon as practical to prevent erosion.
14. The contractor shall not commence any paving until the grading and shaping of the compacted gravel base has been approved by the project engineer.
15. Re-grading, filling, and other such alterations to the site shall be restricted to the minimum level necessary to complete the project as shown on the plan.
16. Existing inverts on storm drains, sanitary sewers, and utility conduits shall be field verified where appropriate, before commencing construction. The contractor shall excavate test pits where necessary hereon or wherever design conflicts may occur. The contractor shall notify the project engineer of the test pit schedule. Design conflicts if any, shall be brought to the immediate attention of the project engineer. Patch or backfill and patch test pits as directed by the project engineer.
17. The project engineer with the approval of the City of Stamford, may direct a change in the location of the storm drainage or sanitary sewer structures to meet field conditions.
18. On-site driveway catch basins shall be 24"x24" as manufactured by Eastern Precast Co., Inc., with Pattern No. 2815, cast iron frame and grate, as manufactured by Campbell Foundry, Co., or engineer approved excels, unless noted otherwise. All catch basins shall have 2" (minimum) sumps and bell tops, installed immediately upon making pipe connections, unless noted otherwise.
19. All gravity PVC storm drain and sanitary sewer pipes shall conform to ASTM D 3034 "Standard Specification for pipe FSM Poly Vinyl Chloride (PVC) Sewer Pipe and Fittings" or approved equal (SDR35). Bends in pipes shall not exceed 45 degrees.
20. Where unsuitable foundation is encountered during construction of storm drains or sanitary sewers, the contractor shall remove the unsuitable material and replace it with other material approved by the project engineer.
21. Bedding and backfill material shall conform to ASTM D2321 specification "standard recommended practice for underground installations of flexible thermoplastic sewer pipe (PVC)."
22. All site drainages and sewer connections shall be sloped at 2% (minimum) or as otherwise noted.
23. All drainage and sewer conduits if located under a paved or traveled way shall have 1 foot minimum cover for residential driveways and 2 1/2 foot minimum cover within the municipal right-of-way, or be encased in concrete as ordered by the supervising engineer.
24. The contractor shall provide all equipment, tools, labor and materials necessary to satisfactorily clean and remove all visible obstructions, dirt, sand, sludge, roots, gravel, stones, etc., from the storm drains, sanitary sewers, and manholes.
25. Processed aggregate shall be in accordance with the City of Stamford standards and/or Connecticut State Highway specifications.
26. Individual residential driveway pavement shall be one course of 2 1/2" compacted Class 2 bituminous concrete with a 6" processed aggregate base.
27. All retaining walls greater than three feet are required to be designed, and inspected during construction by a Professional Engineer registered in the State of Connecticut. A Retaining Wall Certification Sign-Off and Retaining Wall Field Inspection Record form shall be submitted prior to the issuance of a Certificate of Occupancy.
28. All detention/retention systems shall be installed per manufacturers specifications. All systems shall use a manifold system to distribute runoff evenly into each row of infiltrators. The manifold shall be installed on the inlet and overflow sides.
29. The contractor shall be responsible for securing all required permits from the City of Stamford for completion of the project, including but not limited to Health Department approval.

1. A Street Opening Permit is required for all work within the City of Stamford Right-of-Way.
2. All work within the City of Stamford Right-of-Way shall be constructed to City of Stamford requirements, the State of Connecticut Basic Building Code and the Connecticut Guidelines for Soil Erosion and Sedimentation Control.
3. The Engineering Bureau of the City of Stamford shall be notified three days prior to any commencement of construction or work within the City of Stamford Right-of-Way.
4. Trees within the City of Stamford Right-of-Way to be removed shall be posted in accordance with the Tree Ordinance.
5. Prior to any excavation the Contractor and/or Applicant/Owner, in accordance with Public Act 77-350, shall be required to contact "Call Before You Dig" at 1-800-922-4455 for mark out of underground utilities.
6. All retaining walls three (3) feet or higher measured from finished grade at the bottom of the wall to finished grade at the top of the wall and retaining walls supporting a surcharge or impounding Class I, II or III-A liquids are required to have a Building Permit. Retaining walls shall be designed and inspected during construction by a Professional Engineer licensed in the State of Connecticut. Prior to the issuance of a Certificate of Occupancy, retaining walls shall be certified by a Professional Engineer licensed in the State of Connecticut.
7. Certification will be required by a professional engineer licensed in the State of Connecticut that work has been completed in compliance with the approved drawings.
8. A Final Improvement Location Survey will be required by a professional land surveyor licensed in the State of Connecticut.
9. Connection to a city-owned storm sewer shall require the Waiver Covering Storm Sewer Connection to be filed with the City of Stamford Engineering Bureau.
10. Granite block or other decorative stone or brick, depressed curb, driveway apron and curbing within the City of Stamford Right-of-Way shall require the Waiver Covering Granite Block Depressed Curb and Driveway Aprons to be filed with the City of Stamford Engineering Bureau.
11. Sediment and erosion controls shall be maintained and repaired as necessary throughout construction until the site is stabilized.
12. To obtain a Certificate of Occupancy, submittal must include all items outlined in the Checklist for Certificate of Occupancy (Appendix D of the City of Stamford Drainage Manual).
13. Reference EPB Permit #, Zoning Permit #, Zoning Board of Appeals #, Subdivision #, if applicable.



1. Land disturbance shall be kept to a minimum. All disturbed areas shall be planted in where permanent plantings are called for as soon as practicable. Seed and mulch disturbed areas with grass seed where permanent plantings are not called for, as soon as practicable. Prepare seedbeds (1/4" minimum) with topsoil. Seed rate, roll, water and mulch areas according to mixes below. Water as often as necessary (up to 3 times per day) to establish cover. Mulch seeded areas at 1 to 2 tons/acre with salt hay. Maintain mulch and watering until grass is 3" high with 85% cover. Sowed or overseed if necessary.
- Temporary Seed Mix:  
Perennial ryegrass 40 lbs/ac.
- Permanent Lawns:  
Kentucky Bluegrass 20 lbs/ac.  
Creeping red fescue 20 lbs/ac.  
Perennial ryegrass 5 lbs/ac.  
(1 lb./1000 sq.)
- Optimum Seeding Dates:  
April 15 through June 15  
August 15 through October 1 45 lbs/ac.  
(1 lb./1000 sq.)
- |                |         |  |
|----------------|---------|--|
|                |         |  |
| 1              | 2-20-24 |  |
| 0              | 1-22-24 |  |
| REV.           | DATE    |  |
| LEONARD C. D'A |         |  |





# **SEDIMENTATION AND EROSION CONTROL NOTES:**

1. Temporary soil and erosion control measures, inclusive of filter barriers, water breaks, and anti-tracking areas, shall remain in place for as long as necessary to permanently stabilize developed areas.
2. Erosion and sediment control devices shall be installed in their proper sequence. No clearing or grading may be done in any area until the erosion control devices for that area, as shown on the plan, are in place and functional.
3. Natural vegetation shall be maintained and protected where practical.
4. No changes of this soil erosion and sediment control plan may be made without prior approval of the supervising engineer.
5. Land disturbance is to be kept to a minimum. Re-establishment and/or stabilization of disturbed areas shall be scheduled as soon as practical.
6. Erosion controls shall be monitored periodically to verify that they are maintained in effective working order. If, during construction, additional control measures are necessary, they shall be installed by that contractor.
7. Sediment or debris shall be removed from the drainage pipes and structures as it accumulates during construction. It shall be disposed of in a manner which is consistent with the intent of this plan.
8. The contractor may provide alternate means of sediment control, but he may not eliminate placement of protection in the areas indicated hereon.
9. Sediment fencing shall be installed where required prior to commencing construction. Fencing shall be Tropex Silt Stop (TM) as manufactured by Amoco, or engineer approved equivalent.
10. Copies of the Sedimentation and Erosion Control Plan are to be maintained at the site and provided to the project foreman and subcontractors prior

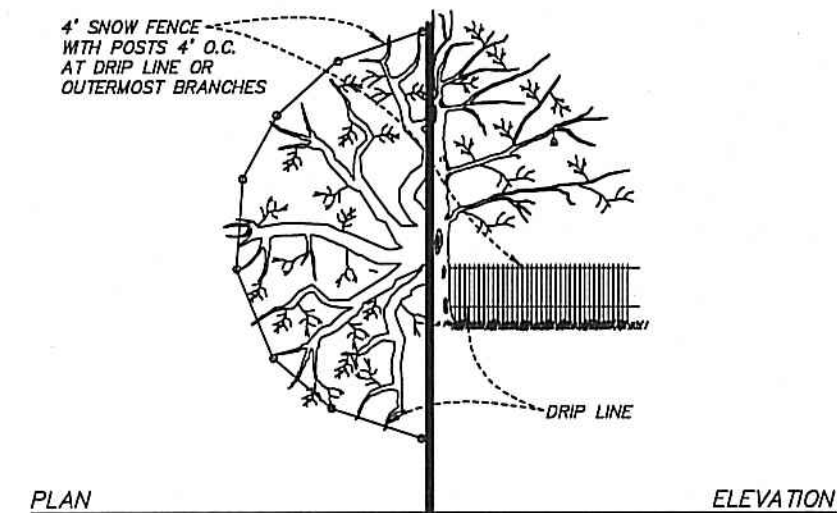
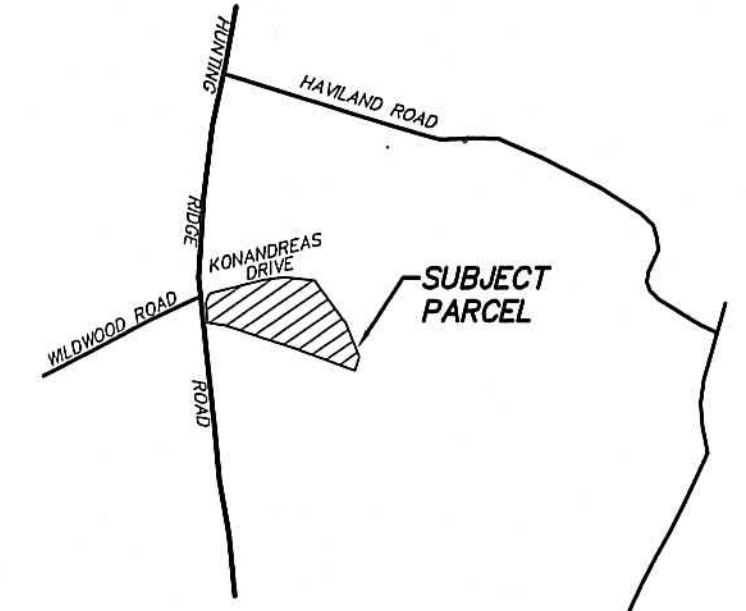
11. An additional 10% of trap rock, hay bales, snowfencing, fabric fencing, and other control materials are to be stockpiled on site for use as necessary.
12. The contractor may provide alternate means of sediment control, but he may not eliminate placement of protection in the areas indicated hereon.
13. The contractor shall regrade, topsoil, and seed all disturbed areas immediately after construction has been completed.
14. The contractor shall re-grade, topsoil, and seed all disturbed areas immediately after construction has been completed.
15. Erosion controls shall be monitored periodically to verify that they are maintained in effective working order. If, during construction, additional control measures are necessary, they shall be installed.
16. Additional protection measures shall be implemented should site conditions
17. Erosion and sediment controls need to be inspected on a regular basis
18. Refer to Connecticut Guidelines for Soil Erosion and Sediment Control (2002) for additional details and specifications.

APPLICANT INFORMATION:  
CHRIS & MICHELLE MORTON  
355 ATLANTIC STREET  
APT. NO. 22R  
STAMFORD, CONNECTICUT 06901  
ACMORTON7@GMAIL.COM

AREA = 1.2328 ACRES

"RA-1" ZONE BLOCK NO. 392  
REFER TO MAP No. 13339 S.L.R.

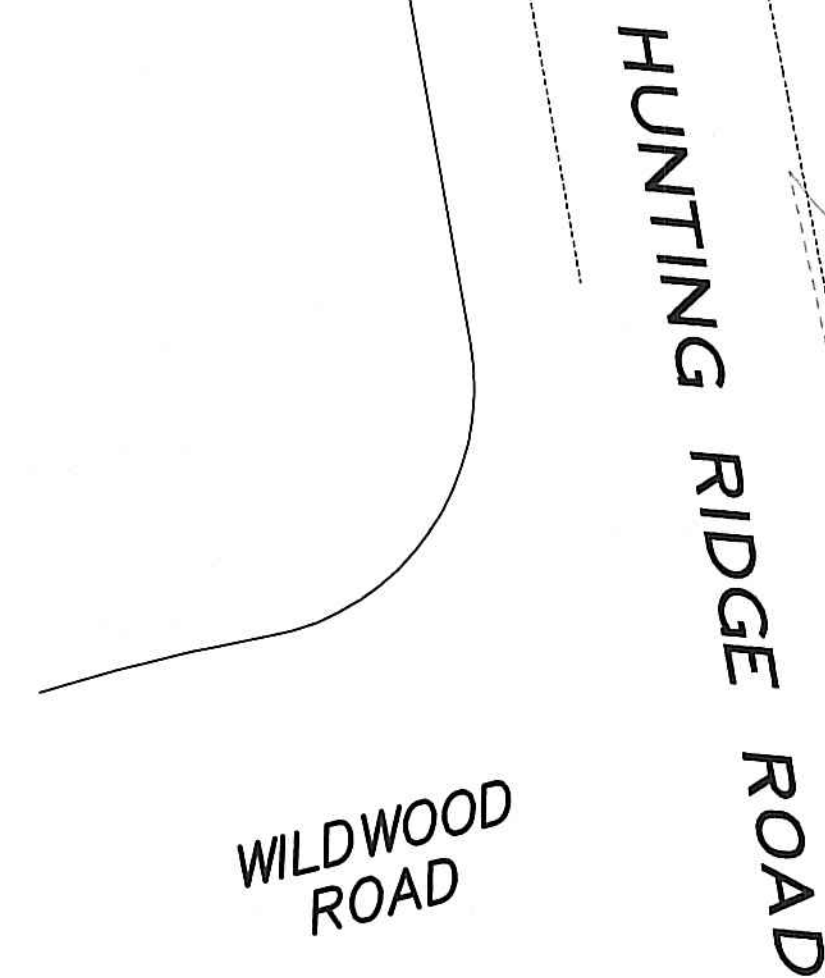
NOTE:  
THE STREET AND PROJECT FRONTAGE AREA SHALL BE SHEPT CLEAN AT THE END OF EACH DAY AS REQUIRED. IN PARTICULAR, THE CONSTRUCTION ENTRANCE SHALL BE KEPT FREE OF DUST AND SEDIMENT.



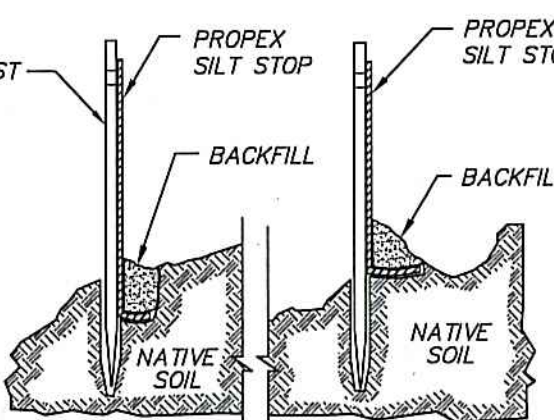
**TREE PROTECTION**  
N.T.S.

- LEGEND**
- CONSTRUCTION FENCE
  - SILT FENCE
  - TREE TO BE REMOVED
  - TREE PROTECTION
  - HAY BALES

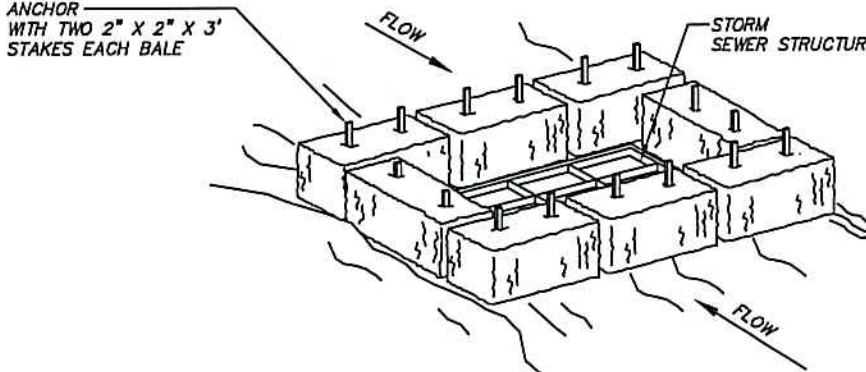
- TREE LEGEND**
- M - MAPLE
  - O - OAK
  - TR - TRIPLE
  - TW - TWIN



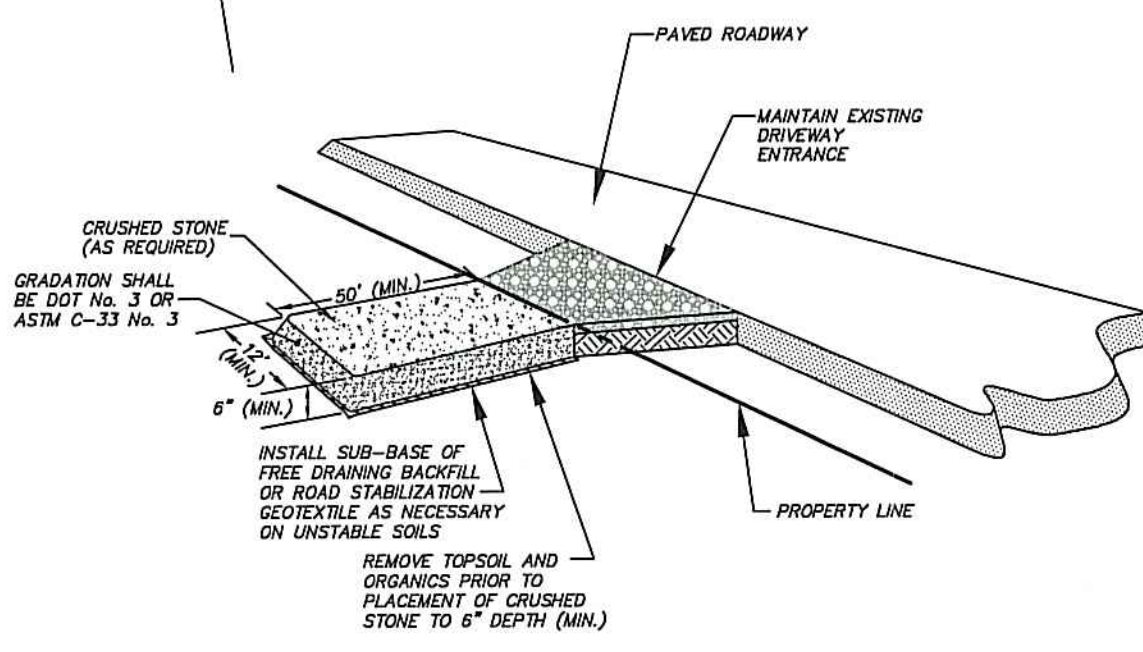
NOTE:  
POSTS SHOULD NOT BE SPACED MORE THAN 10' APART



**INSTALLATION DETAIL  
SEDIMENT CONTROL FABRIC**  
N.T.S.



**HAY BALE INSTALLATION  
AT CATCH BASINS**  
N.T.S.



**ANTI-TRACKING PAD DETAIL**  
N.T.S.

## **MAINTENANCE PLAN:**

- 1) Twice per year in late Fall and late Spring, inspect all roof gutters, junction boxes, yard drains, and the retention systems.
- 2) Remove accumulated silt and debris from roof gutters, junction boxes, yard drains, and catch basins.
- 3) Repair all drainage structures as necessary.
- 4) Dispose of all debris and silt in approved disposal areas. There shall be no dumping of silt or debris into or in proximity to any inland or tidal wetlands areas.

CONTOUR INTERVAL = ONE FOOT  
1 INCH = 20 FEET  
SCALE  
20 0 20  
IN FEET

## **CONSTRUCTION STAGING**

1. Install sedimentation and erosion controls.
2. Mark and cut trees to be removed.
3. Install tree protection as required.
4. Strip topsoil and stockpile it with appropriate sedimentation control measures.
5. Excavate for and construct proposed foundation.
6. Construct dwelling.
7. Backfill and rough grade around building foundation, stabilize all slopes.
8. Install drainage system.
9. Install septic system and utilities.
10. Fine grade and stabilize all slopes.
11. Landscape.
12. Remove sedimentation and erosion controls.

**D'ANDREA SURVEYING & ENGINEERING, PC**  
• LAND PLANNERS  
• ENGINEERS  
P.O. BOX 549 RIVERSIDE, CT 06878  
6 NEIL LANE TEL. 637-1779

PROJECT	SINGLE FAMILY DWELLING	
PREPARED FOR	CHRIS MORTON MICHELLE T. MORTON	
LOCATION	11 KONANDREAS DRIVE STAMFORD, CONNECTICUT	
4 OF 4	SEDIMENTATION AND EROSION CONTROL PLAN	

1	3-15-24	WATERSHED BOUNDARY AND SETBACKS
0	1-22-24	ISSUE TO EPB & SHD
REV.	DATE	DESCRIPTION
LEONARD C. D'ANDREA, CT PE No. 14869		
3-15-24		
ENGINEER		

ONLY COPIES OF THIS MAP, BEARING AN ORIGINAL IMPRINT OF THE ENGINEER'S EMBOSSED SEAL SHALL BE CONSIDERED TO BE TRUE, VALID COPIES.

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