

LEGEND

These standard symbols may be found in the drawing.

★	Light Pole
CONC.	Concrete
BIT.	Bituminous
U	Utility Pole
WV	Water Valve
GV	Gas Valve
X X	Chain Link Fence
---	Boundary Line
---	Edge of Road / Drive
---	Stone Wall
CB	Catch Basin
SMH	Sewer Manhole
I.P.S.	5/8" Iron Pin Set
RR SPIKE FOUND	Railroad Spike Found
D.H.F.	Drill Hole Found
D.H.S.	Drill Hole Set
WLF 2	Wellhead Flag
GMS	Granite Merestone
EX. CONC. MON.	Existing Concrete Monument
TBS	To Be Set
---	Tree Line
CHD	CT Highway Department Monument
---	Existing Contour Line

Bearing Chart:

LINE	BEARING	DISTANCE
L1	N 83°10'00" E	38.26'
L2	N 81°56'31" E	23.22'
L3	N 77°27'43" E	26.29'
L4	N 78°08'01" E	18.72'
L5	N 71°31'45" E	22.01'
L6	N 60°33'33" E	10.44'
L7	N 71°38'52" E	9.62'
L8	N 79°44'47" E	7.07'
L9	N 74°49'57" E	4.82'

Zoning Compliance Chart		
Zone: R-40 Accessory Dwelling		
Minimum Lot Area:	Required: 40,000 s.f.	Provided: 52,469 s.f.
Minimum Lot Frontage:	100 ft.	118.00 ft.
Minimum Lot Width:	100 ft.	112 ft.
Minimum Front Yard Setback:	50 ft.	152 ft.
Minimum Side Yard Setback:	25 ft.	15.0 ft.*
Minimum Rear Yard Setback:	50 ft.	313 ft.
Maximum Building Coverage:	25%	4.1%
Maximum Building Height:	35 ft.	20 ft.

* Variance requested for Accessory Dwelling Structure

GENERAL NOTES:

- Reference is made to the following plans:
 - "As-Built Plan, Property Belonging To Wendi L. Pettit, 16 Dimmock Road, Waterford, Connecticut, Scale: 1"=40', March 5, 2001." Plan surveyed and mapped by William F. Kent, RLS. Plan filed in Florek Surveying, LLC Records as Map 1302.
 - "Compilation Plan - File No. E8112, Map Showing Easement Area To Be Granted To The Connecticut Light And Power Company DBA Eversource Energy Across The Property Of Kelly Wegg Joseph, 20R Dimmock Road, Town Of Waterford - County Of New London - Connecticut, Sheet 1 of 1, Scale: 1" = 20', Dated: October 23, 2018." Plan surveyed and mapped by James Bernardo Land Surveying, Plan filed on the Waterford Land Records as map 6497.
 - "New Lot D (Harris Property) Dimmock Road, Waterford, Connecticut, Date: 10-08-04, Scale: As-Shown." Plan surveyed and mapped by R.P. Dimmock Associates. Plan filed on the Waterford Land Records as map 4977.
- Not all underground utilities have been shown. Call before you dig (CBYD) is recommended prior to any construction.
- North orientation is based on two independent RTK GNSS observations utilizing the Superior Network in February 2020.
- The word certify as used is understood to be an expression of professional opinion by the surveyor. It is a declaratory statement which is based on the surveyor's best knowledge, information and belief. As such it constitutes neither a guarantee nor warranty, expressed or implied, of any information contained hereon.
- Removal or destruction of survey monumentation, whether set or found, as shown on this survey plan may be subject to Connecticut Statute 47-34a.
- Wetlands flagged by James Cowen, CPSS and field located by Florek Surveying, LLC thereafter.
- Engineering services completed by David Cooley, P.E., DLC Engineering Services, LLC.
- Subsurface sewage investigation areas sized based on projected Maximum Leaching System Spread calculations. Final leaching system spread will be determined based on percolation test results.
- Property served by Public Water System - Waterford WPCA
- Property is located in Flood X as shown on Firm Map, New London County, Connecticut (All Jurisdictions) Panel 511 of 554, Community Town of Waterford, Number 090107, Panel 0511, Suffix J; Map Revised: August 5, 2013.

TEST HOLE DATA

18 DIMMOCK ROAD, WATERFORD, CT

DATE - DECEMBER 10, 2020

TIME - 10:00AM TO 11:30AM

TEMPERATURE - 45 DEGREES

CONDITIONS - SUNNY AND CLEAR

ENGINEER - DAVID L. COOLEY, P.E., DLC ENGINEERING SERVICES, LLC

HEALTH DEPARTMENT - DANIELLE HOLMES, REHS/RS, LEDGE LIGHT HEALTH DISTRICT

TEST HOLE 1 - TH1

0 - 9" TOPSOIL/FILL MATERIAL

9" - 16" TOPSOIL

16" - 26" LIGHT ORANGE BROWN MEDIUM SANDY LOAM

26" - 38" LIGHT YELLOW BROWN COARSE SAND WITH SOME GRAVEL

38" - 60" STANDING GROUNDWATER

STANDING GROUNDWATER AT 38"

TOTAL TEST HOLE DEPTH - 60" - NO LEDGE

REDOX/GW MOTTILING - 29"

ROOTS DOWN TO 37"

NOW OR FORMERLY

Joseph Kelly Wegg

20 R Dimmock Road

Parcel ID 152-0173410

Town Clerk Volume 1560 Page 150

Subject Property: 18 Dimmock Road

Assessor Map: 175 Lot 2010

Zone: R-40

Area: 52,469 SF / 1.20 AC ±

NOW OR FORMERLY

Richard J. & Wendi L. Pettit, Trustee

16 Dimmock Road

Parcel ID 152-0176302

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Wetland Soils:

Wetland soils: Walpole sandy loam, 0 to 3 percent slopes. The Walpole Series consists of very deep, poorly drained sandy soils formed in outwash and stratified drift. They are nearly level to gently sloping soils in low-lying positions on terraces and plains. Slope ranges from 0 to 8 percent.

Non-wetland Soils:

The non-wetland soils consist primarily of:
51B Sutton fine sandy loam, 0 to 8 percent slopes very stony
73C Charlton-Chatfield complex, 0 to 15 percent slopes very rocky

TEST HOLE 2 - TH2

0 - 10" TOPSOIL

10" - 37" YELLOW BROWN SANDY LOAM, SOME SILT

37" - 60" GREY FINE SAND

STANDING GROUNDWATER AT 45"

TOTAL TEST HOLE DEPTH - 60" - NO LEDGE

REDOX/GW MOTTILING - 29"

ROOTS DOWN TO 45"

TEST HOLE 3 - TH3

0 - 10" TOPSOIL

10" - 30" ORANGE BROWN FINE SILTY LOAM

30" - 57" GREY COARSE SAND

STANDING GROUNDWATER AT 37"

TOTAL TEST HOLE DEPTH - 57" - LEDGE/LARGE ROCK

REDOX/GW MOTTILING - 26"

ROOTS DOWN TO 37"

PERCOLATION TEST DATA

18 DIMMOCK ROAD, WATERFORD, CT

DATE - DECEMBER 10, 2020

TIME - 12:00AM TO 2:30PM

TEMPERATURE - 45 DEGREES

CONDITIONS - SUNNY AND CLEAR

PERCOLATION TEST 1 - PT1

DEPTH - 14.5"

PRE-SOAK - 11:55AM

TIME	WATER LEVEL (IN.)	WATER LEVEL DROP (IN.)	RATE MIN./IN.
1:07PM	5.125		
1:12PM	9.125	4.00	1.3
1:17PM	11.375	2.25	2.2
1:22PM	EMPTY		

PERCOLATION TEST 2 - PT2

DEPTH - 15"

PRE-SOAK - 11:50PM

TIME	WATER LEVEL (IN.)	WATER LEVEL DROP (IN.)	RATE MIN./IN.
1:05PM	4.00		
1:10PM	5.125	1.125	4.4
1:15PM	6.25	1.125	4.4
1:20PM	7.125	0.875	5.7
1:25PM	8.00	0.875	5.7
1:30PM	8.75	0.75	6.7
1:35PM	9.50	0.75	6.7
1:40PM	10.125	0.625	10.0
1:45PM	10.625	0.50	8.0
1:50PM	11.25	0.625	10.0
1:55PM	11.75	0.50	10.0
2:00PM	12.125	0.375	13.3
2:05PM	12.50	0.375	13.3
2:10PM	12.875	0.375	13.3
2:15PM	13.25	0.375	13.3
2:20PM	EMPTY		

SITE IMPROVEMENT SURVEY

LAND BELONGING TO:

ROBERT, JR. & GRACE KYNE

18 DIMMOCK ROAD

WATERFORD, CONNECTICUT

SCALE: 1" = 20'

REVISIONS: MARCH 13, 2020

MAY 28, 2020

PLAN REVISED THROUGH: MAY 5, 2021

Sheet 1 of 2

SURVEY NOTES:

- This survey has been prepared pursuant to the regulations of the 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 type is a ZONING COMPLIANCE SURVEY based on a Re-Survey as shown as map reference 1A - 1C. It is intended to show PROPOSED IMPROVEMENTS.

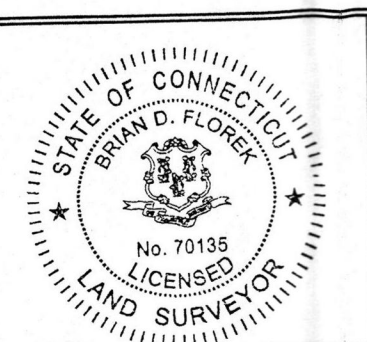
- This survey conforms to Class A-2 / T-2

To the best of my knowledge and belief this map is substantially correct as noted thereon.

David L. Cooley, P.E. 5-7-21
SINCE SCIENTIST

Brian D. Florek, L.S. #70135 Date
Managing Member, Florek Surveying, LLC
239 Shore Road, Waterford, CT 06385
860-271-6006
bdflorek@floreksurveyingllc.com

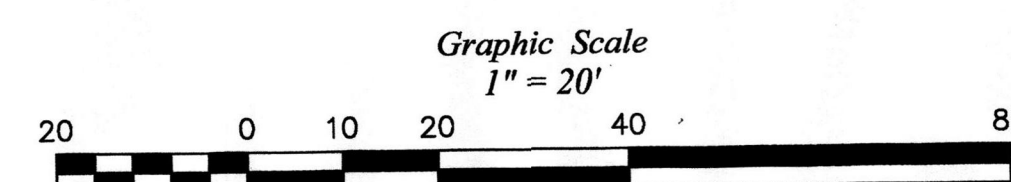
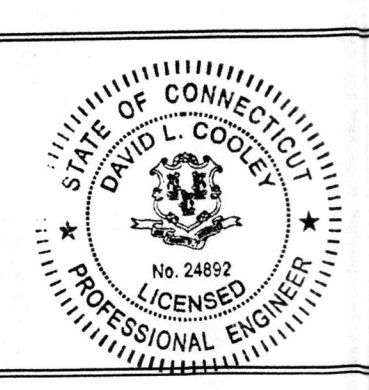
Not Valid
Without
Embossed Seal



To the best of my knowledge and belief this map is substantially correct as noted thereon.

David L. Cooley, P.E. 5/8/2021
Managing Member, DLC Engineering Services, LLC
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860-966-5528
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Not Valid
Without
Embossed Seal



SUBSURFACE SEWAGE DISPOSAL SYSTEM NOTES

1. THERE ARE NO WELLS WITHIN 75 FEET OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM.
2. THERE ARE NO FLOODING DRAINS WITHIN 25 FEET OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM.
3. A CONDITION OF THIS DESIGN IS THAT THE SUBSURFACE SEWAGE DISPOSAL SYSTEM SHALL BE STAKED BY A LICENSED LAND SURVEYOR PRIOR TO CONSTRUCTION.
4. THE LICENSED INSTALLER IS RESPONSIBLE FOR INSTALLING THE SUBSURFACE SEWAGE DISPOSAL SYSTEM IN ACCORDANCE WITH THE APPROVED PLANS. IN ADDITION, PER PUBLIC HEALTH CODE REQUIREMENTS THE LICENSED INSTALLER SHALL BE ON-SITE DURING THE CONSTRUCTION OF THE SYSTEM.
5. ALL TOPSOIL, STUMPS AND BOULDERS MUST BE REMOVED FROM THE AREA OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM. SOIL FILL SHALL BE INSTALLED PRIOR TO INSTALLATION OF THE SYSTEM.
6. THE LOCAL HEALTH DEPARTMENT/DISTRICT MUST BE NOTIFIED BEFORE ANY PORTION OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM IS CONSTRUCTED AND PRIOR TO BACKFILL OF ANY PORTIONS.
7. THE INSTALLER SHALL BE RESPONSIBLE FOR AND ADEQUATELY COMPACT ANY FILL THAT IS REQUIRED OR USED FOR OR IN CONJUNCTION WITH THE SUBSURFACE SEWAGE DISPOSAL SYSTEM. ALL FILL SHALL BE PLACED IN 6 TO 8 INCH LIFTS AND SHALL BE MECHANICALLY COMPACTED.
8. THERE SHALL BE NO CUTS WITHIN 50 FEET OF THE DOWNHILL SIDE OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM OR WITHIN 25 FEET OF THE SIDES OF THE SYSTEM. THERE SHALL BE NO STUMPS OR BOULDERS BURIED WITHIN 50 FEET OF THE DOWNHILL SIDE OF THE SYSTEM.
9. SHOULD ANY SIGNIFICANT VARIATIONS FROM TEST PIT DATA SHOWN (LEDGE, GROUNDWATER MOTTILING, SOIL TYPE) BE DISCOVERED BY THE INSTALLER, THE ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH THE INSTALLATION OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM.
10. IN GENERAL, ALL CONSTRUCTION PRACTICES, AS PER THE PUBLIC HEALTH CODE, SHALL BE ADHERED TO. THE FOLLOWING OUTLINES SOME OF THE MAJOR PROCEDURES, BUT DO NOT RELIEVE THE INSTALLER FROM FULL COMPLIANCE DUE TO THEIR LACK OF MENTION BELOW:
 - a. ALL TOPSOIL, STUMPS AND BOULDERS SHALL BE REMOVED FROM TEN AREA OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM AND FILL. THIS AREA SHOULD EXTEND TO A MINIMUM OF 5 FEET AROUND EACH LEACHING AREA. NO MACHINERY OR VEHICLES SHALL BE ALLOWED ON THE EXPOSED NATIVE SOIL. STRIPPING SHOULD NOT TAKE PLACE WITHIN 48 HOURS OF A RAIN STORM OR IF THERE IS STANDING WATER IN THE AREA.
 - b. THE EARTH SHALL BE SCARIFIED PRIOR TO FILL PLACEMENT. GRAVEL FILL SHALL MEET PUBLIC HEALTH CODE SPECIFICATIONS AND BE PLACED IN ACCORDANCE WITH NOTE 7.
 - c. NO TRUCKS OR HEAVY MACHINERY SHALL BE ALLOWED IN THE STRIPPED AREA.
11. THIS SUBSURFACE SEWAGE DISPOSAL SYSTEM IS NOT DESIGNED TO ACCEPT BACKWASH FROM A WATER SOFTENER.
12. ALL GEOMATRIX GST 6212 INSTALLATIONS UTILIZE A SPECIFIED SAND (SEE DESIGN NOTE ON SPECIFIED SAND) AROUND THE LENGTH OF LEACHING SYSTEM SPECIFIED 2 INCH MINIMUM UNDERNEATH AND 2 INCH MINIMUM ON THE SIDES. THE DEPTH OF SPECIFIED SAND UNDERNEATH THE LEACHING SYSTEM SHALL BE INCREASED BASED ON EXISTING GRADES WITH TOPSOIL REMOVED TO MAINTAIN A LEVEL BASE ELEVATION FOR EACH LEACHING AREA.
13. THE SPACE BETWEEN THE GEOMATRIX GST 6212 SECTIONS CREATED AT ANGLED BENDS SHALL BE FILLED WITH ASTM C33, SPECIFIED SAND, WHERE APPLICABLE.
14. THE GEOMATRIX GST 6212 SYSTEM SHALL BE TIED BY A 4 INCH SOLID SDR 35 PVC PIPE AND TRANSITION TO A 4 INCH PERFORATED SDR 35 PVC PIPE. THE LENGTH OF EACH LEACHING SYSTEM, THE END OF THE PERFORATED DISTRIBUTION PIPE SHALL BE PROVIDED WITH A SOLID CAP.
15. BACKFILL AND FINISH GRADING: CAREFULLY PLACE BACKFILL OVER THE LEACHING SYSTEM, A TOTAL MINIMUM DEPTH OF 6 INCHES OF WELL GRADED SANDY FILL (CLEAN, POROUS, AND DEVOID OF ROCKS) AS MEASURED FROM THE TOP OF THE FILTER FABRIC OVER THE DISTRIBUTION PIPE. FINISHED GRADE MUST DIVERGENT SURFACE RUNOFF FROM THE SOIL TREATMENT AREA AND PREVENT SURFACE POOLING. PER THE PROPOSED CONTOUR LINES AND SPOT GRADES PROVIDED ON THE SITE PLAN, PROTECT THE SYSTEM AREA FROM EROSION BY LOAMING AND SEEDING OR BY USING OTHER APPROVED METHODS OF EROSION CONTROL.
16. THIS DESIGN COMPLES WITH AND MUST BE INSTALLED IN ACCORDANCE WITH THE MOST CURRENT GEOMATRIX GST 62 SERIES DESIGN AND INSTALLATION MANUAL.
17. THE FILL OVER THE SEPTIC TANK SHALL NOT EXCEED 12 INCHES WITHOUT THE INSTALLATION OF PRECAST CONCRETE RISERS ABOVE THE MANHOLES. IF RISERS ARE INSTALLED, THE ORIGINAL COVERS ON THE SEPTIC TANK SHALL REMAIN.
18. A CLEAN OUT SHALL BE INSTALLED JUST INSIDE THE FOUNDATION WALL ON THE BUILDING SEWER PIPE FOR MAINTENANCE PURPOSES.

CONSTRUCTION SEQUENCE:

1. SURVEYOR TO MARK LIMITS OF CLEARING AND THE AREA OF DISTURBANCE.
2. INSTALL SILT FENCE AS INDICATED ON THE SITE PLAN AND PER EROSION AND SEDIMENT CONTROL PLAN.
3. INSTALL CONSTRUCTION ENTRANCE AS INDICATED ON THE SITE PLAN AND PER EROSION AND SEDIMENT CONTROL PLAN.
4. DEMOLISH EXISTING GARAGE.
5. SURVEYOR TO MARK LIMITS OF FOUNDATION FOR PROPOSED GARAGE AND ADDITION.
6. EXCAVATE FOR AND CONSTRUCT FOUNDATION FOR PROPOSED GARAGE AND ADDITION.
7. EXCAVATE FOR AND INSTALL UTILITY SERVICE TO THE PROPOSED GARAGE.
8. CONSTRUCT PROPOSED GARAGE AND ADDITION.
9. COMPLETE FINAL GRADING WITHIN THE AREA OF DISTURBANCE.
10. INSTALL SEPTIC SYSTEM.
11. INSTALL DRIVEWAY AND PARKING AREAS.
12. TOPSOIL OF EXPOSED SOILS TO PREPARE FOR RESEEDING.
13. RESEED ALL EXPOSED AREAS PER EROSION AND SEDIMENT CONTROL PLAN. COVER WITH STRAW.
14. SILT FENCE TO REMAIN IN PLACE UNTIL ALL UP-GRADE AREAS ARE PERMANENTLY ESTABLISHED TO THE SATISFACTION OF THE TOWN OF WATERFORD.

EROSION AND SEDIMENT CONTROL PLAN:

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AND INSTALLED PER THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

1. ESTIMATED DURATION OF MAJOR CONSTRUCTION ACTIVITIES – 90 DAYS
2. SURVEYOR TO MARK WETLAND SETBACK LIMITS ON THE PROPERTY AS APPLICABLE.
3. SILT FENCE IS TO BE INSTALLED, AS INDICATED ON THE SITE PLAN, PRIOR TO ANY CONSTRUCTION ACTIVITY AND INSPECTED BY TOWN STAFF. A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN FOR THE PURPOSE OF INSPECTION PRIOR TO ANY CONSTRUCTION ACTIVITIES.
4. CONSTRUCTION ENTRANCE TO BE INSTALLED, AS INDICATED ON THE SITE PLAN, PRIOR TO ANY CONSTRUCTION ACTIVITY.
5. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS INDICATED IN THE CONSTRUCTION SEQUENCE ON THE SITE PLAN.
6. STOCKPILE AREAS MUST BE DIRECTLY CONTAINED WITHIN SILT FENCE AROUND THE COMPLETE PERIMETER.
7. EXCESS SPOILS SHALL BE DISPOSED OF OFF-SITE AT AN APPROPRIATELY LICENSED FACILITY.
8. ALL REMAINING DISTURBED AREAS SHALL BE SEEDDED UPON COMPLETION OF CONSTRUCTION. IF DURING THE PLANTING SEASON, RECOMMENDED SEEDING DATES SHALL BE BETWEEN APRIL 15 AND SEPTEMBER 15. SEED MIX WILL CONSIST OF 0.45 LB PER 1,000 S.F. OF CREEPING RED OR TALL FESCUE, 0.05 LB PER 1,000 S.F. OF REDTOP AND 0.20 LB PER 1,000 S.F. OF BIRD'S FOOT TREFOIL WITH INNOCUENT FERTILIZER MAY BE APPLIED AT THE RATE OF 7.5 LB PER 1,000 S.F. OF 10-10-10.
9. SILT FENCE BARRIER TO BE MAINTAINED AND LEFT IN PLACE UNTIL ALL DISTURBED AREAS HAVE ESTABLISHED VEGETATION TO THE SATISFACTION OF TOWN STAFF.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTION AND MAINTENANCE OF SILT FENCE AND EROSION AND SEDIMENT CONTROL CONDITIONS ONSITE DURING CONSTRUCTION.
11. PROJECT ENGINEER MAY BE CALLED FOR SPECIAL INSPECTIONS TO ASSESS EROSION AND SEDIMENT CONTROL PLAN EFFECTIVENESS AND MAKE REVISIONS AS NECESSARY.
12. PROJECT ENGINEER MAY ALSO BE CALLED IN TO ASSESS EMERGENCY SITUATIONS (I.E. SEVERE FLOODING, RAINS OR OTHER ENVIRONMENTAL PROBLEMS).

SUBSURFACE SEWAGE DISPOSAL SYSTEM DESIGN CALCULATIONS

BASIS OF DESIGN:

RESIDENTIAL HOME – 4 BEDROOMS
NO GARBAGE GRINDER AND NO LARGE TUBS OF 100–200 GALLONS
ASSUME 150 GALLONS PER BEDROOM PER DAY, 75 GALLONS PER BEDROOM BEYOND THREE, AND SINGLE FAMILY RESIDENTIAL DESIGN FLOW = 3 BEDROOMS X 150 GPD + 1 BEDROOM X 75 GPD = 525 GALLONS PER DAY

DESIGN PERCOLATION RATE = 10:1 TO 20:0 MINUTES PER INCH

DESIGN UTILIZES A 25 FT SEPARATION DISTANCE TO A OPEN WATERCOURSE/WETLAND PER TABLE 1 OF THE CTDPH TECHNICAL STANDARDS – ITEM C. THE 18 DIMMOCK ROAD LOT WAS IN EXISTENCE PRIOR TO 8/16/1982 AND IS NOT LOCATED ON A PUBLIC WATER SUPPLY WATERSHED.

DESIGN COMPONENTS:

1,250 GALLON TWO COMPARTMENT SEPTIC TANK

EFFECTIVE LEACHING AREA REQUIRED = 787.5 SF PER TABLE 6 OF THE CTDPH TECHNICAL STANDARDS
62"x12" GEOMATRIX GST 6212 LEACHING SYSTEM, ELA=10.0 SF/LF
12 FOOT MINIMUM ROW SPACING (ON CENTER) BELOW

LENGTH OF LEACHING UNITS REQUIRED = 787.5 SF/10.0 SF/LF = 78.75 LF

LENGTH OF LEACHING SYSTEM PROVIDED = 80 LF

TOTAL EFFECTIVE LEACHING AREA PROVIDED = 800 SF

DEPTH TO RESTRICTIVE LAYER = 29 INCHES – GROUNDWATER MOTTILING/REDOX

MLSS = HF X FF X PF = 34 X 1.75 X 1.25 = 74.4 LF

80 LF OF LEACHING SYSTEM PROVIDED – SLIGHTLY CONVERGING

75 LF OF LEACHING SYSTEM SPREAD PROVIDED 25 FT DOWNGRADIENT – MLSS ACHIEVED

LEACHING AREA #1 BASE ELEVATION (UPGRADIENT SIDE) – 12.68 FT

LEACHING AREA #2 BASE ELEVATION (UPGRADIENT SIDE) – 13.83 FT

LEACHING SYSTEM FILL – PER MANUFACTURER SPECIFICATIONS AND DETAIL DRAWINGS, GST 6212 SYSTEM USES A COMBINATION OF ASTM C33 SELECT SAND AND CT DOT FORM B16 NO. 6 STONE AGGREGATE PER SECTION VIIIA OF THE CTDPH TECHNICAL STANDARDS MEETING THE FOLLOWING STIPULATIONS AND GRADATION:

SELECT FILL	WEIGHT PASSING
SIZE	DRY SIEVE
#4	100
#10	70–100
#40	10–50*
#100	0–20
#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% IF THE FILL FAILS THE DRY SIEVE BUT PASSES THE WET SIEVE, THEN THE FILL SHALL BE APPROVED.

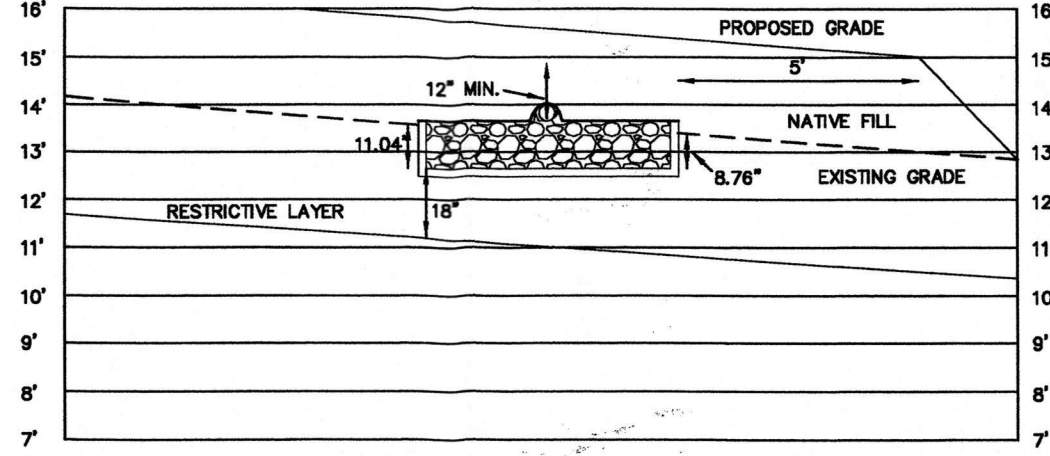
C33 SAND	PERCENT
SIZE	PASSING
#4	100
0.375"	95.0–100.0
#10	80.0–100.0
#16	80.0–85.0
#30	25.0–60.0
#50	5.0–30.0
#100	<10
#200	<5

NOTE: ASTM C33 SELECT SAND SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THE THREE (3) INCH SIEVE. UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE. THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE SIEVE ANALYSIS STARTED.

NO. 6 STONE AGGREGATE	PERCENT
(A.K.A. 3/4" STONE)	PASSING
SIZE	BY WEIGHT
2"	N/A
1.5"	N/A
1"	100
3/4"	90–100
1/2"	20–55
3/8"	0–15
#4	0–5

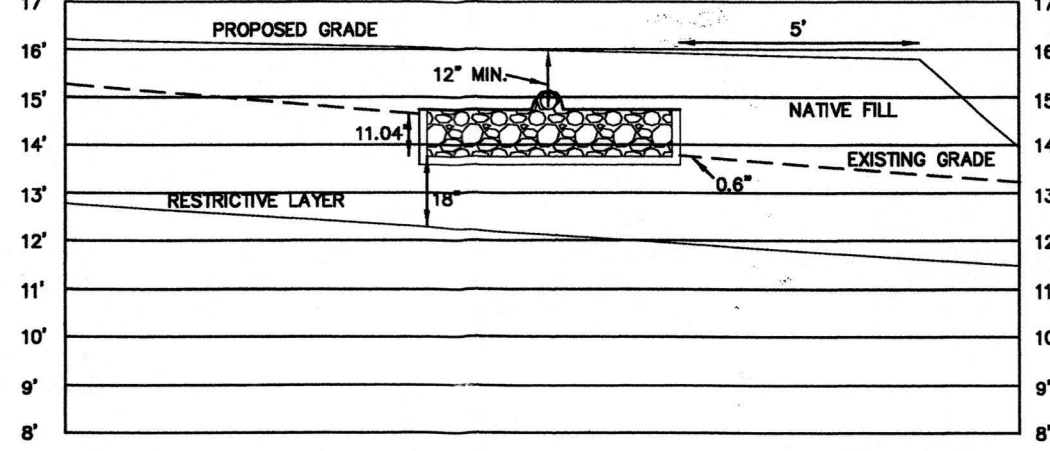
NOTE: STONE AGGREGATE MUST BE OF UNIFORM CONSISTENCY AND ONLY CONTAIN CLEAN, HARD, TOUGH, DURABLE FRAGMENTS THAT MEET THE SPECIFICATIONS CITED IN THE STONE AGGREGATE DEFINITION WITHIN THE CTDPH TECHNICAL STANDARDS, WHICH INCLUDES A FINES STANDARD OF 1% PASSING THE #200 SIEVE AT THE PIT/QUARRY SOURCE. THIS STANDARD SHOULD ALSO BE MET AT THE SDDS INSTALLATION SITE, HOWEVER IN NO CASE SHALL THE FINES EXCEED 1.5%.

LEACHING AREA #1 CROSS SECTION DETAIL
CROSS SECTION A-A'



NOT TO SCALE

LEACHING AREA #2 CROSS SECTION DETAIL
CROSS SECTION B-B'

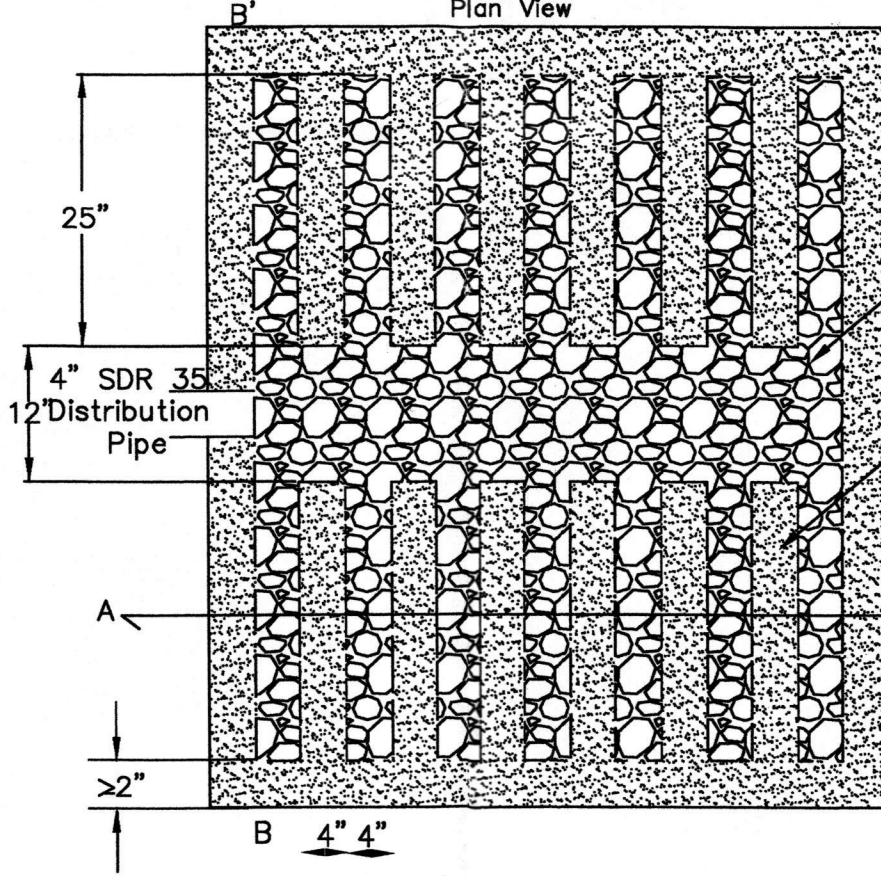


NOT TO SCALE

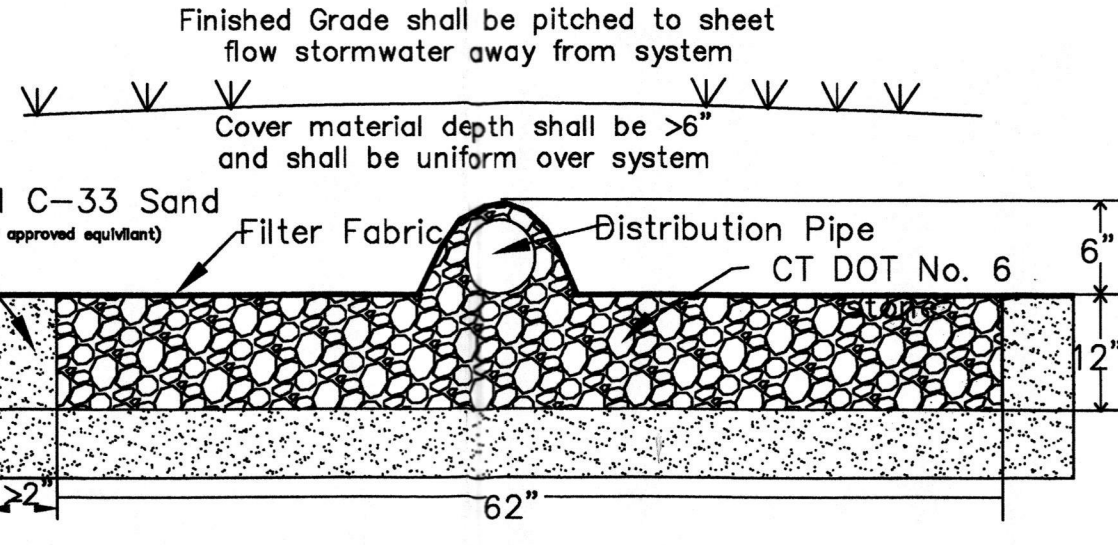
NOTES:

1. TOPSOIL SHALL BE STRIPPED WITHIN THE LEACHING AREA AND EXTEND A MINIMUM OF 5 FEET IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE LEACHING SYSTEM.
2. COMMON/NATIVE CLEAN FILL SHALL BE USED TO FILL THE REMAINING AREAS AND ESTABLISH GRADES AND ELEVATIONS AS SPECIFIED.
3. COMMON/NATIVE CLEAN FILL SHALL EXTEND AT LEAST 5 FEET IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE LEACHING SYSTEM.

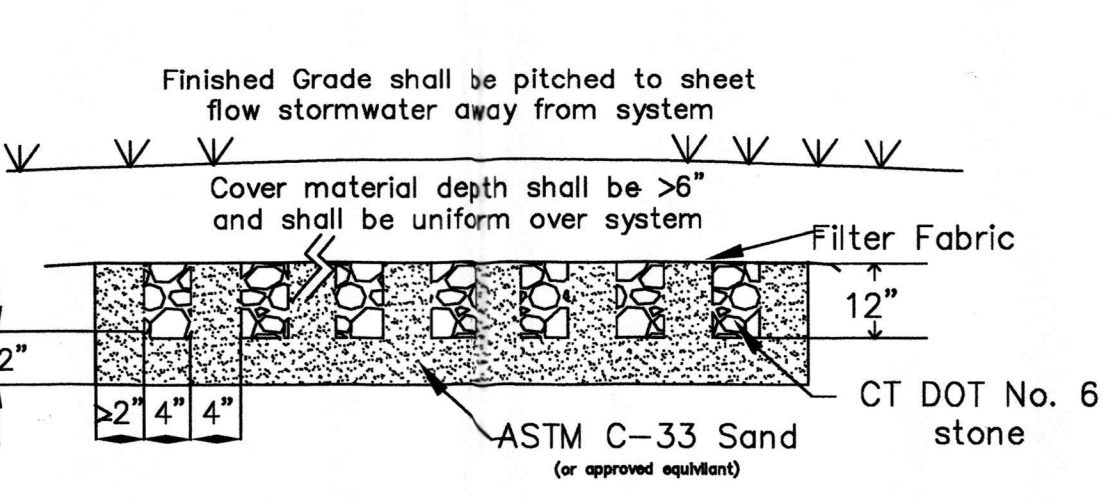
GEOMATRIX GST™ LEACHING SYSTEM



GEOMATRIX GST™ LEACHING SYSTEM
B-B' CROSS SECTION



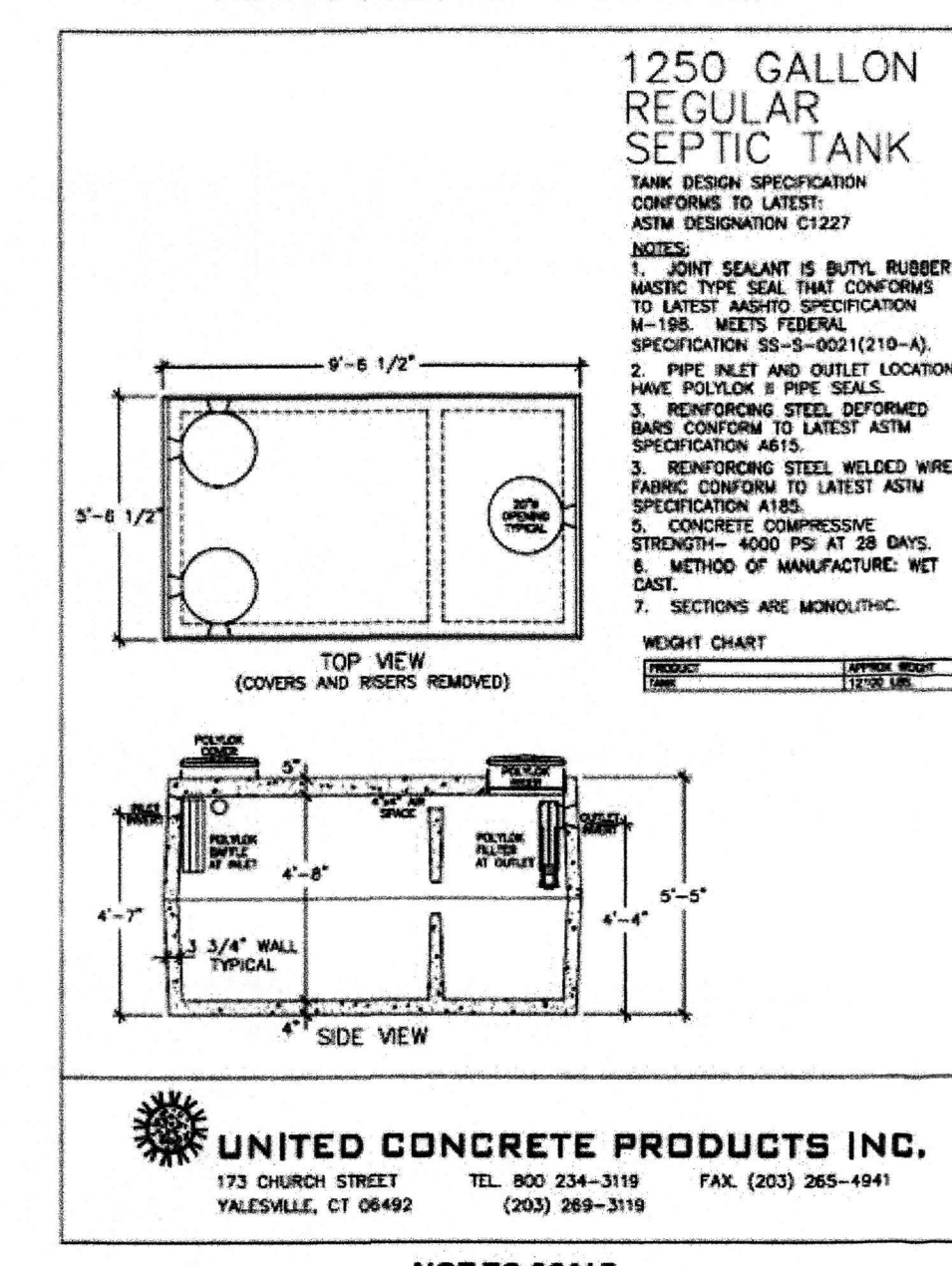
GEOMATRIX GST™ LEACHING SYSTEM
A-A' CROSS SECTION



SEPTIC ELEVATIONS SCHEDULE

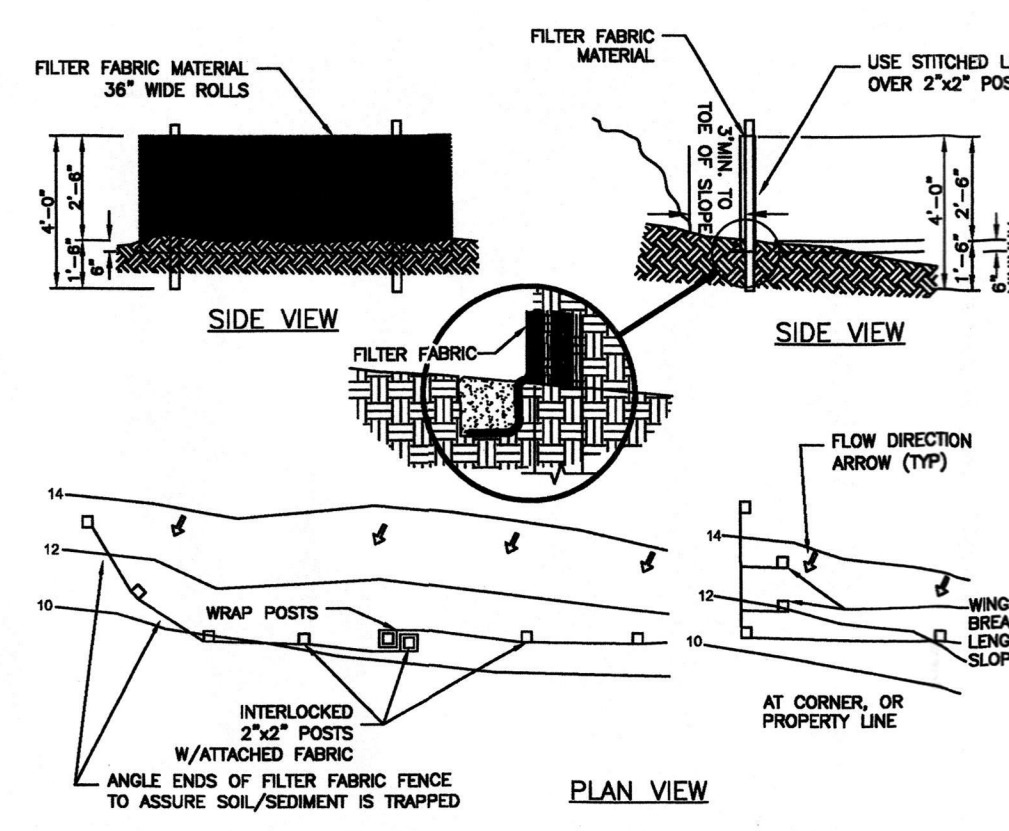
SEPTIC TANK	
INLET INVERT	15.52'
OUTLET INVERT	15.27'
TOP OF TANK	16.36'
BOTTOM OF TANK	10.94'
GRADE ON TOP OF TANK	16.86'
DISTRIBUTION BOX	
INLET INVERT	15.03'
LEACHING UNIT OUTLET INVERT	14.93'
LEACHING AREA #1	
INLET INVERT	13.68'
TOP ELEVATION	13.68'
BASE ELEVATION	12.68'
LEACHING AREA #2	
INLET INVERT	14.83'
TOP ELEVATION	14.83'
BASE ELEVATION	13.83'

1250 GALLON SEPTIC TANK DETAILS

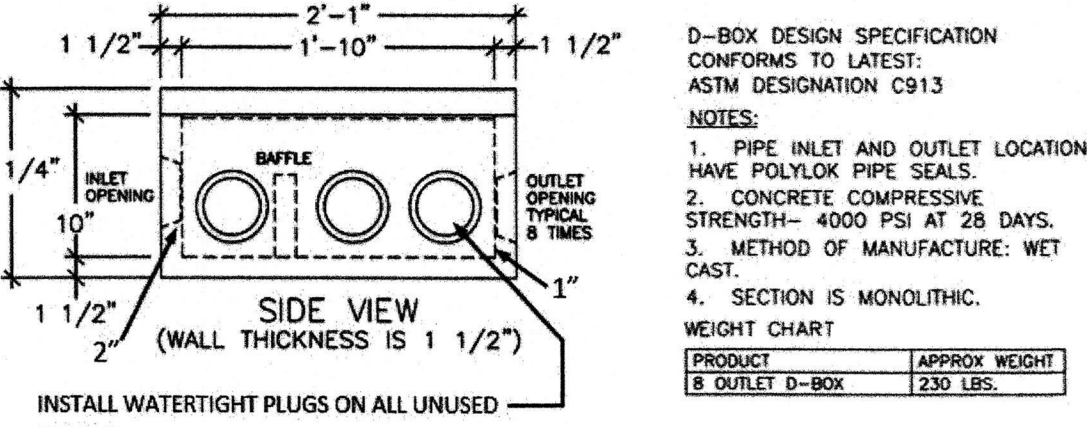
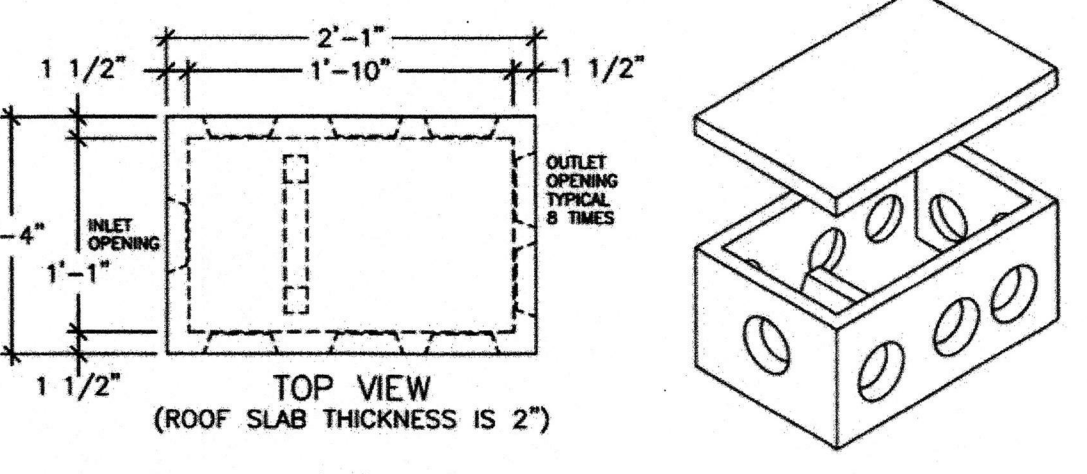


- NOTES:
1. SEE ELEVATION SCHEDULE FOR SEPTIC TANK INSTALLATION ELEVATIONS.
 2. SEPTIC TANK SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

SILT FENCE DETAIL
NITS

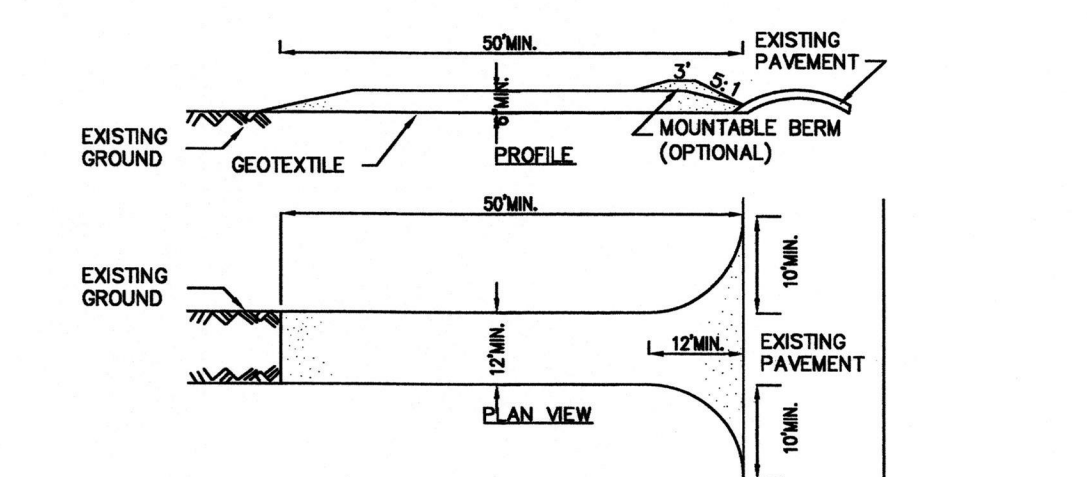


8 OUTLET DISTRIBUTION BOX
DETAIL
NOT TO SCALE



INSTALL WATER TIGHT PLUGS ON ALL UNUSED OUTLETS.

CONSTRUCTION ENTRANCE DETAIL



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE – USE 1–4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SHALL BE REMOVED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

SITE IMPROVEMENT SURVEY

LAND BELONGING TO:
ROBERT, JR. & GRACE KYNE
18 DIMMOCK ROAD
WATERFORD, CONNECTICUT

SCALE: 1" = 20'
REVISIONS: MARCH 13, 2020
MAY 28, 2020
PLAN REVISED THROUGH: MAY 5, 2021