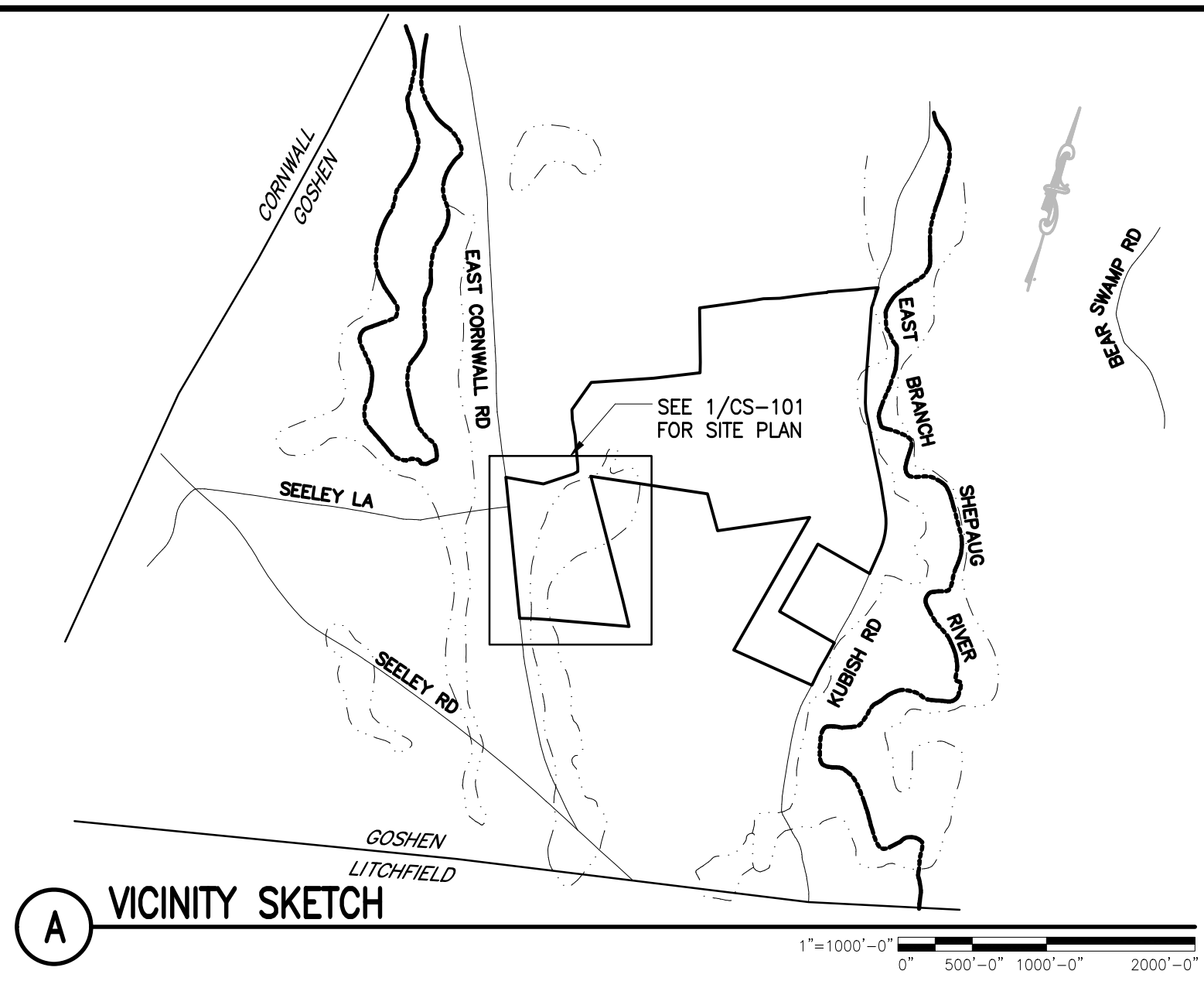


SYMBOLS LEGEND

- BOUNDARY LINE
- SETBACK LINE
- EXISTING TOPO LINE
- PROPOSED TOPO LINE
- - - - - SILT FENCE
- - - - - UTILITY LINE
- - - - - SEWER LINE
- ⊙ WELL
- ⊙ PERCOLATION TEST
- ⊙ TEST PIT



PROJECT DESCRIPTION

THE SUBJECT PROPERTY IS UNDEVELOPED LAND ON THE EAST SIDE OF EAST CORNWALL ROAD IN GOSHEN, CT. THIS PLAN PROPOSES THE CREATION OF A BUILDING LOT AT THE SOUTHERN END OF THE PROPERTY (1-Lot SUBDIVISION). THE REMAINING LANDS (+/-66.396 ACRES) WILL REMAIN UNDEVELOPED AND WILL BE PROTECTED THROUGH DEED RESTRICTION AS AGRICULTURAL LANDS. THE DEVELOPMENT OF THE PROPOSED LOT WILL CONSIST OF A SINGLE-FAMILY HOME AND ASSOCIATED DRIVEWAY, WELL, UNDERGROUND UTILITIES, AND A SEPTIC SYSTEM. INLAND WETLANDS WERE DELINEATED BY GEORGE MALIA, SOIL SCIENTIST, (SEE SOIL SCIENTISTS REPORT) AND FIELD LOCATED BY BERKSHIRE ENGINEERING AND SURVEYING, LLC. THE SEPTIC SYSTEM DESIGN HAS RECEIVED APPROVAL FROM THE TORRINGTON AREA HEALTH DISTRICT.

PROJECT DESCRIPTION

THE SUBJECT PROPERTY TO BE CREATED CONSISTS OF A WOODED +/- 6.777 ACRE LOT. A DRIVEWAY HAS BEEN INSTALLED OFF OF EAST CORNWALL ROAD INTO THE PROPERTY AND ACROSS A WETLAND AREA. THE PROPOSED SITE DEVELOPMENT IS AT THE END OF THIS DRIVEWAY IN A GENTLY SLOPING AREA. THE REMAINDER OF THE PROPERTY SLOPES STEEPLY TO THE EAST. AN AREA OF WETLAND SOILS WAS IDENTIFIED NORTH OF THE PROPOSED SITE DEVELOPMENT. NO DIRECT WETLANDS IMPACTS ARE PROPOSED, HOWEVER, THERE WILL BE DISTURBANCE WITHIN THE UPLAND REGULATED AREA. SILT FENCE IS PROPOSED TO CONTROL SEDIMENT RUN-OFF DURING CONSTRUCTION (SEE PLAN FOR LOCATION). IN ADDITION, A SLURRY PIT IS PROPOSED TO CONTROL RUN-OFF DURING WELL INSTALLATION.

CONSTRUCTION PHASING SEQUENCE

1. OBTAIN APPROVAL FROM TOWN OF GOSHEN (INLAND WETLANDS, PLANNING AND ZONING, BUILDING, DRIVEWAY, ETC.).
2. CLEAR THE LOT IN THE AREAS OF CONSTRUCTION AND REMOVE ALL WOOD/BRUSH/STUMPS FROM THE SITE.
3. INSTALL SILT FENCE AS SHOWN ON THIS PLAN.
4. STIP TOPSOIL AND STOCKPILE FOR FUTURE USE. STOCKPILES TO BE PROTECTED WITH SILT FENCE. (SEE PLAN FOR STOCKPILE LOCATIONS).
5. EXTEND DRIVEWAY, BASE COARSE ONLY PER PLAN INCLUDING ANTI-TRACKING PAD.
6. INSTALL WELL PER PLAN. NOTE USE OF SLURRY PIT.
7. EXCAVATE FOUNDATIONS FOR HOUSE AND GARAGE. POUR CONCRETE FOOTINGS WITH TWO #4 REINFORCEMENT BAR, CONTINUOUS FOR ALL FOOTINGS.
8. POUR FOUNDATIONS AND USE TWO CONTINUOUS ROWS OF #4 REINFORCEMENT AT BOTTOM AND TOP.
9. INSTALL 12-INCHES OF CLEAN 1/2-INCH STONE UNDER BASEMENT SLAB OF HOUSE FOUNDATION AND INSTALL PIPING UNDER SLAB AND CONNECT TO EXTERIOR FOOTING DRAIN. INSTALL FOOTING DRAIN PIPING TO DAYLIGHT PER PLAN.
10. WATERPROOF FOUNDATIONS AND BACKFILL WITH FREE DRAINING MATERIAL.
11. INSTALL GUTTER DRAIN PIPING AND EXTEND TO DAYLIGHT PER PLAN.
12. STABILIZE AREA AROUND HOUSE FOUNDATION WITH SEED AND MULCH.
13. INSTALL UNDERGROUND UTILITIES AS SPECIFIED ON THIS PLAN AND IMMEDIATELY STABILIZE TRENCH WITH SEED AND MULCH.
14. CONSTRUCT SEPTIC SYSTEM PER PLAN. IMMEDIATELY STABILIZE WITH SEED AND MULCH.
15. PLACE TOP COARSE ON DRIVEWAY AND COMPACT WITH VIBRATORY ROLLER.
16. INSPECT SILT FENCE WEEKLY AND AFTER HEAVY RAIN EVENTS. REPAIR AS NEEDED.
17. MAINTAIN SILT FENCE UNTIL ALL DISTURBED AREAS ARE STABILIZED WITH GRASS.

ENGINEERING NOTES

1. BOUNDARY & TOPOGRAPHIC INFORMATION BASED ON SITE SURVEY PLAN COMPLETED BY BERKSHIRE SURVEYING, LLC. A FIELD BENCHMARK HAS BEEN PROVIDED (SPIKE). ELEVATIONS TO BE FIELD VERIFIED PRIOR TO INITIATING CONSTRUCTION.
2. THE INSTALLATION CONTRACTOR MUST HAVE A VALID SUBSURFACE SEWAGE INSTALLERS LICENSE ISSUED BY THE STATE OF CONNECTICUT.
3. LEACHING TRENCH MUST BE STAKED BY A LICENSED SURVEYOR PRIOR TO INITIATING CONSTRUCTION.
4. LEACHING TRENCHES MUST REMAIN 18" ABOVE THE RESTRICTIVE LAYER, WHICH WAS DETERMINED TO BE APPROXIMATELY 18" BELOW GRADE. SELECT SAND SHOULD BE UTILIZED AS NECESSARY TO ENSURE AFOREMENTIONED 18" SEPARATION DISTANCE.
5. AREA OF PROPOSED SEPTIC SHOULD REMAIN UNDISTURBED PRIOR TO INITIATING CONSTRUCTION OF LEACHING FIELDS.
6. SELECT SAND FILL MUST MEET T&H APPROVAL.
7. SCARIFY SUBSOIL PRIOR TO PLACEMENT OF SELECT SAND. DO NOT OPERATE WHEELED EQUIPMENT ON SCARIFIED SOIL. THE LOCAL HEALTH DISTRICT SHALL INSPECT SCARIFICATION PRIOR TO PLACEMENT OF SELECT SAND FILL.
8. ALL SELECT SAND SHOULD BE PUT IN PLACE BY A TRACKED MACHINE & COMPACTED EVERY FOOT.
9. ENGINEER TO OBTAIN ON-SITE SAMPLE OF SEPTIC SAND AND COMPLETE A SIEVE ANALYSIS TO DEMONSTRATE COMPLIANCE WITH HEALTH DEPARTMENT REQUIREMENTS. ENGINEER TO COMPLETE PERCOLATION TEST IN SAND PAD AND COMPLETE AN AS-BUILT OF SEPTIC SYSTEM.
10. COVER LEACHING SYSTEM WITH 6" TOPSOIL & GRADE TO PROMOTE DRAINAGE.
11. TO THE BEST OF THE ENGINEER'S KNOWLEDGE, NO KNOWN WELLS EXIST WITHIN 75' OF PROPOSED LEACHING SYSTEM. BUILDING WILL BE SERVED BY A PRIVATE WELL GREATER THAN 75' FROM THE PROPOSED SEPTIC TANK & LEACHFIELD.
12. UTILIZE SILT FENCE/HAYBALES AS NEEDED TO PREVENT SEDIMENT RUNOFF DURING ALL PHASES OF CONSTRUCTION.
13. NOTIFY THE LOCAL HEALTH DISTRICT PRIOR TO INITIATING CONSTRUCTION.
14. NOTIFY ENGINEER (860-601-1839) OF ANY CHANGES OR CONDITIONS WHICH AFFECT THE INSTALLATION AS SHOWN ON THIS PLAN.

DESIGN CALCULATIONS PROPOSED LOT

DESIGN BASIS	4 BEDROOMS
FLOW FACTOR	1.75
PERCOLATION RATE	20.1 TO 30 MIN/INCH
PERCOLATION FACTOR	1.5
DEPTH TO RESTRICTIVE LAYER	18"
SLOPE	1% ₀₂ = 9.8%
HYDRAULIC FACTOR	30
MLSS REQUIRED	1.75x1.5x30=78.75FT
MLSS PROVIDED	90FT
LEACHING AREA REQUIRED	750SF + 125SF = 875SF
LEACHING AREA PROVIDED	900SF
USE 90' OF GEOMATRIX 6212	

SELECT SAND FILL REQUIREMENTS

SIEVE	% PASSING
#4	100%
#10	70-100%
#40	10-50%
#100	0-20%
#200	0-5%

ASTM C33 REQUIREMENTS

SIEVE	% PASSING
3/8"	100%
#4	95-100%
#8	80-100%
#16	50-85%
#30	25-60%
#50	5-30%
#100	0-10%
#200	0-3%

1 SITE PLAN

Colby Engineering And Consulting, LLC

CEC

4 BRYNMOOR COURT
GOSHEN, CONNECTICUT 06756
(860) 491-9664

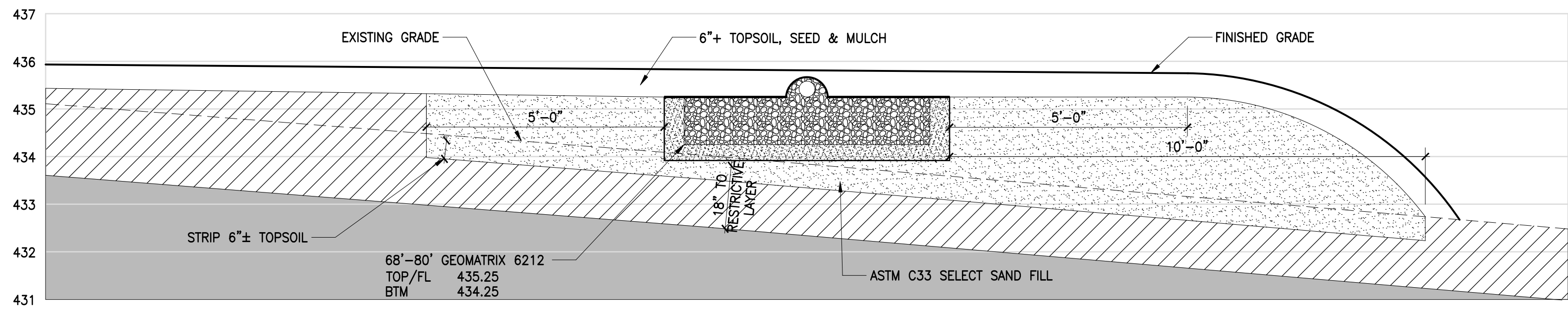
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SCALE : AS-NOTED
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REVISION DATE : 05-22-23

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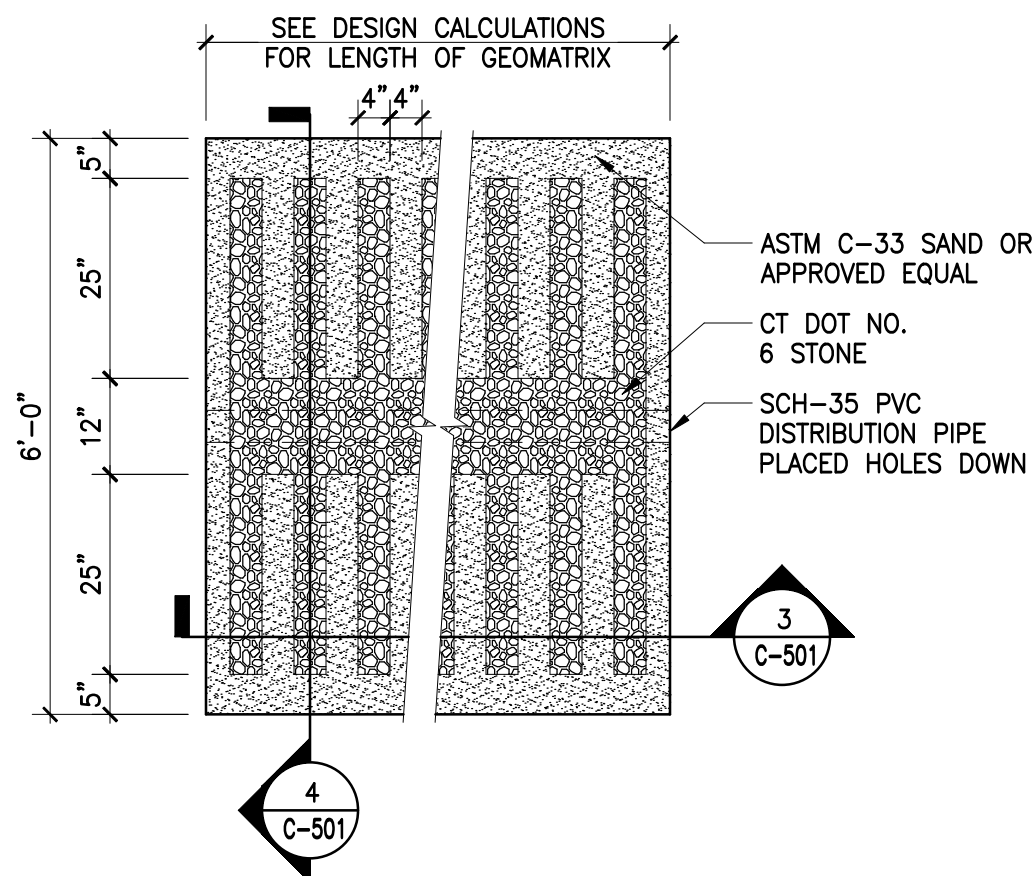
WILLIAM G. COLBY

SITE DEVELOPMENT / SEPTIC PLAN
BUZZIENNA WHITE / SILENE WHITE
192 KUBISH ROAD
COSHEN, CONNECTICUT

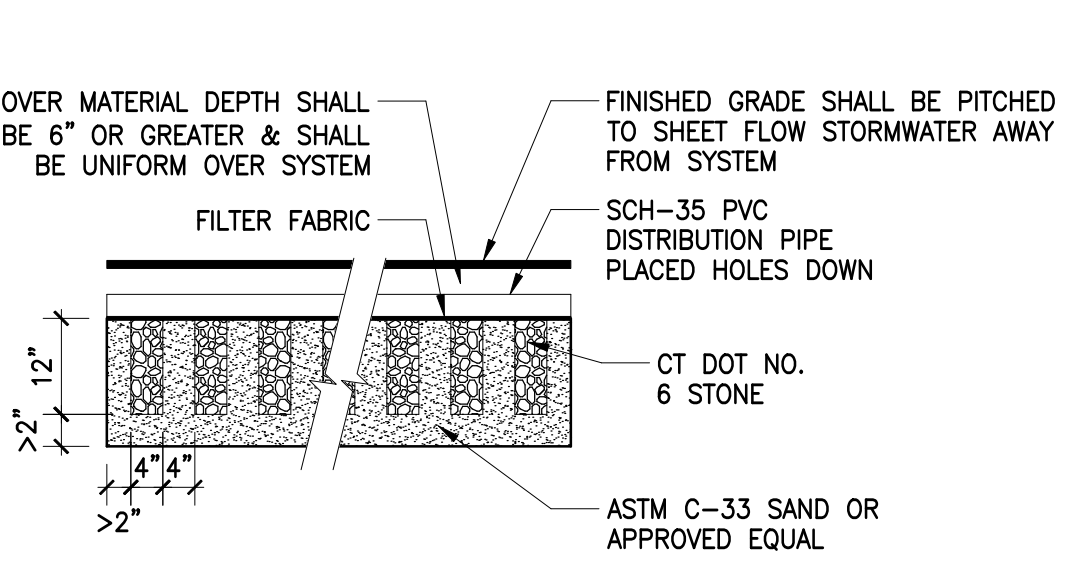
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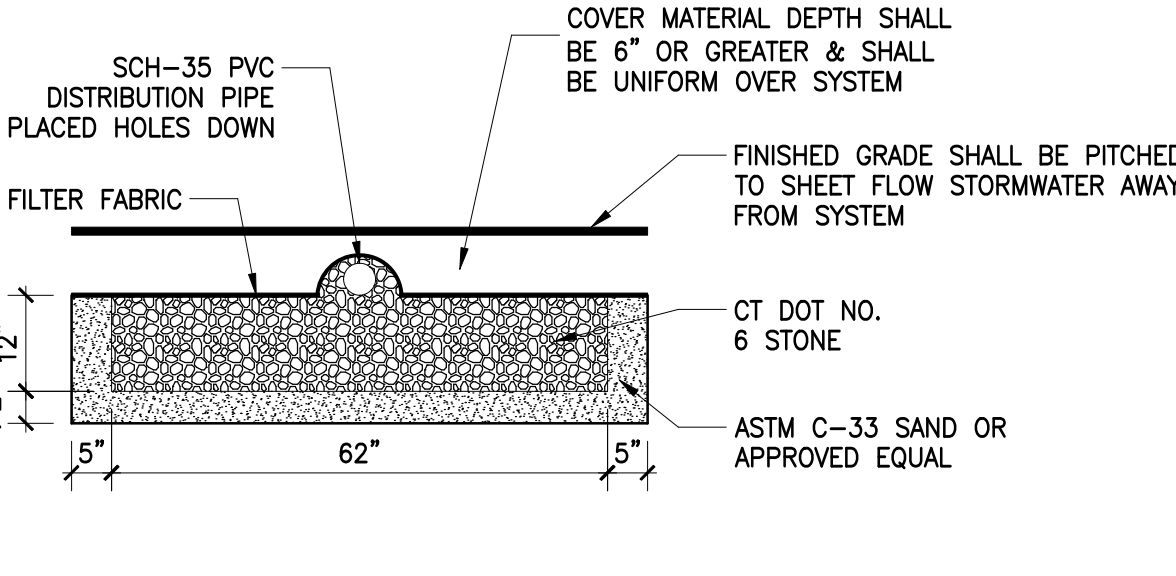
1 SYSTEM PROFILE SECTION



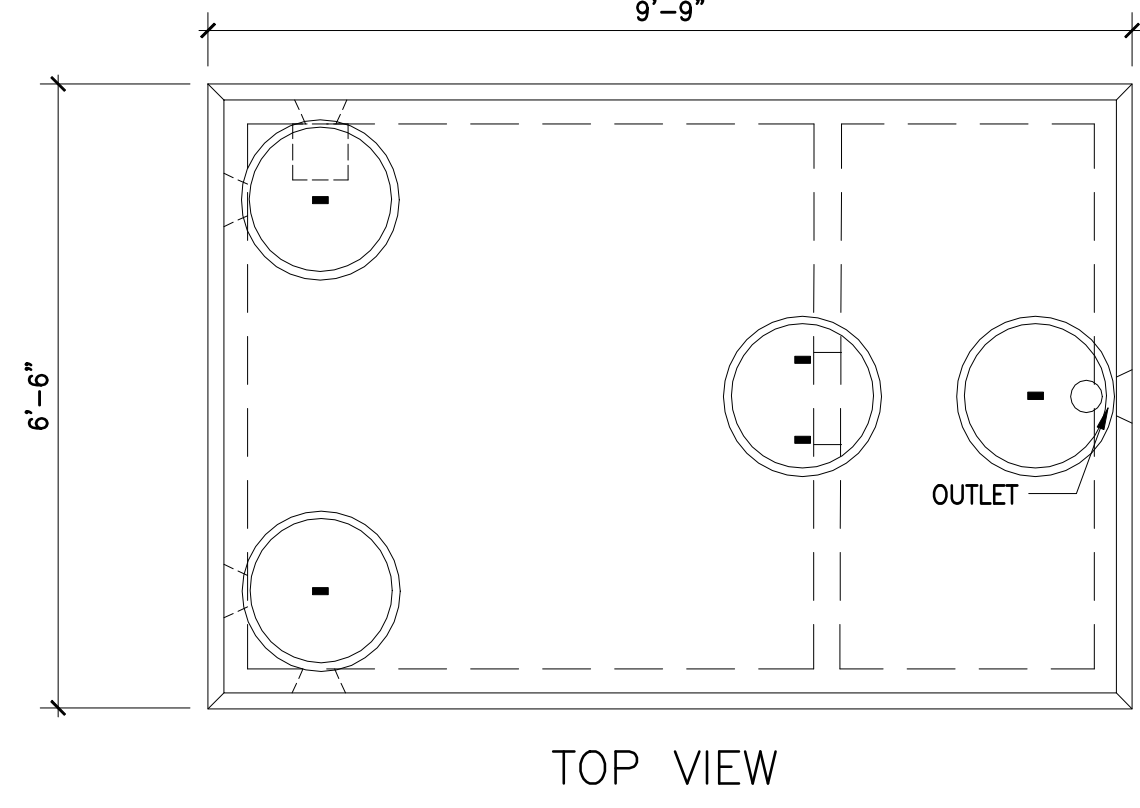
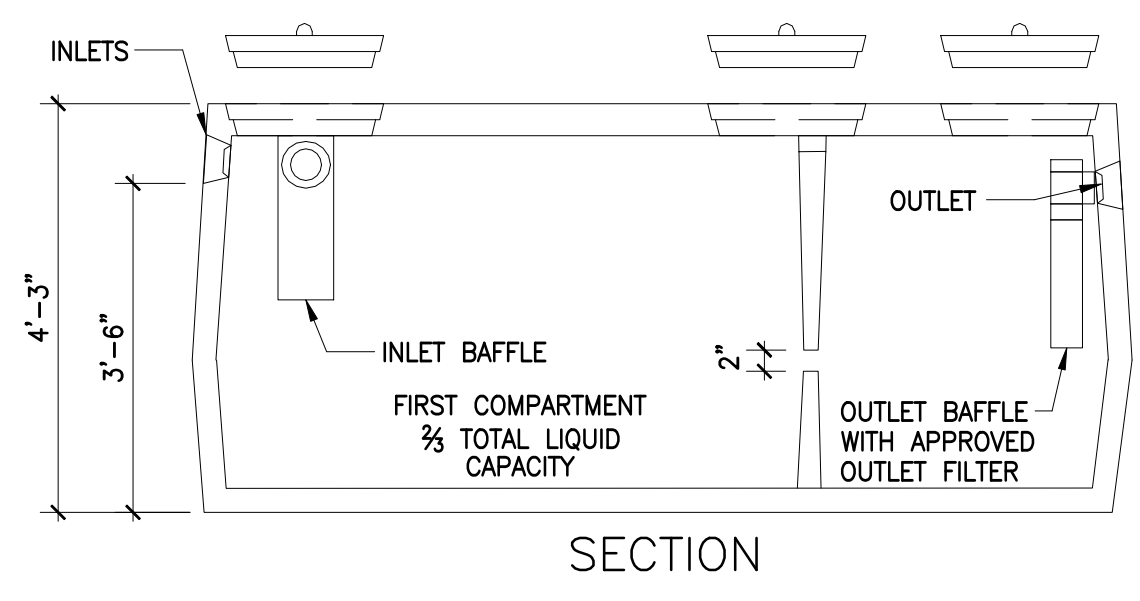
2 GEOMATRIX 6212 PLAN DETAIL



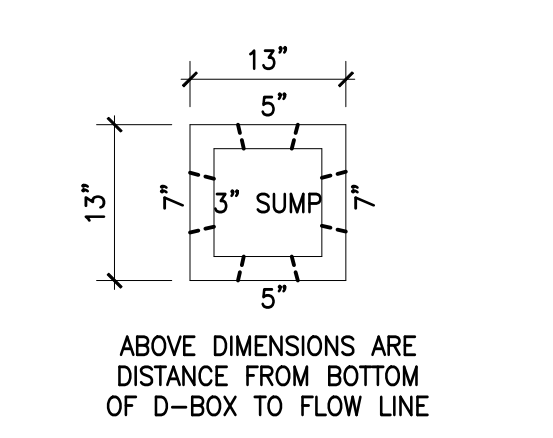
3 GEOMATRIX 6212 CROSS SECTION DETAIL



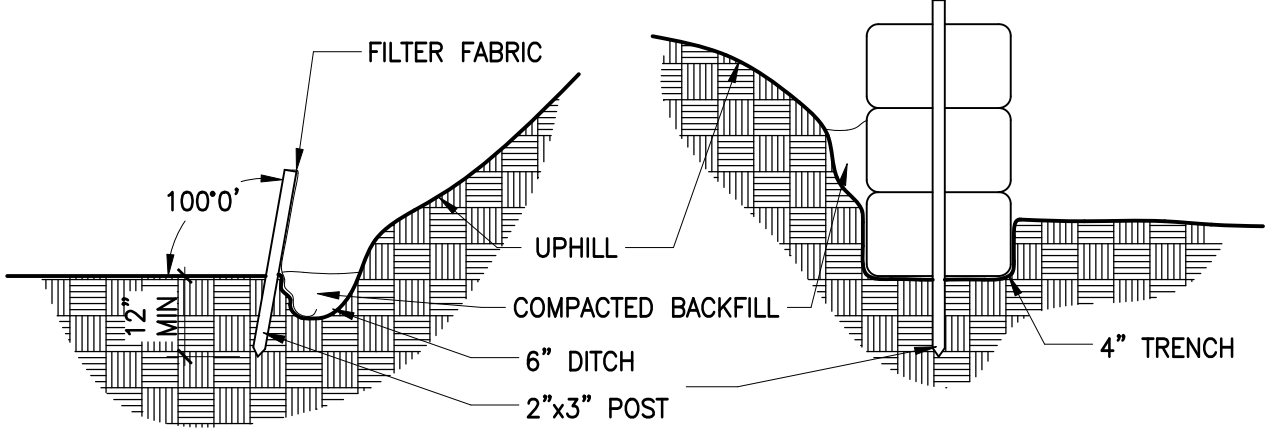
4 GEOMATRIX 6212 SECTION DETAIL



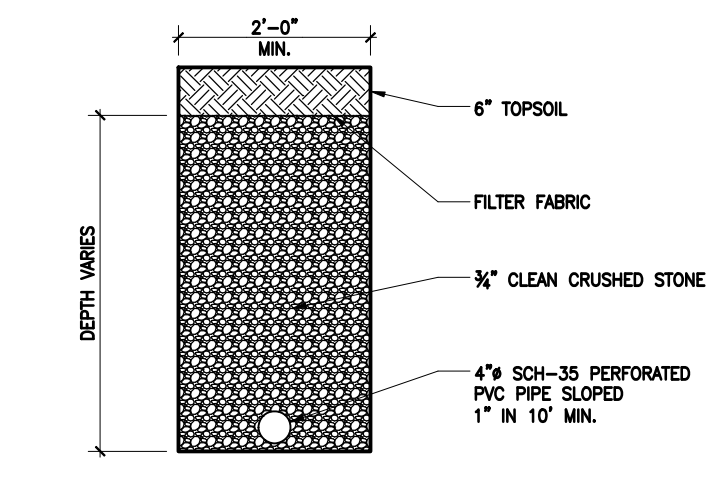
5 RICHARDS 1250 GAL LO-BOY SEPTIC TANK DETAIL



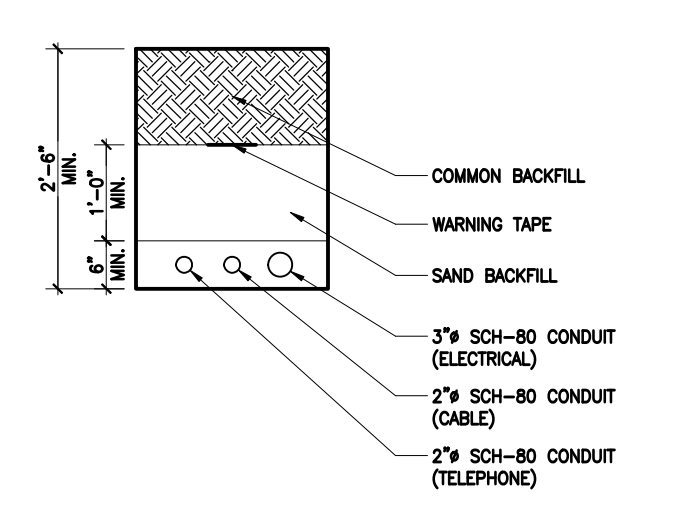
6 HIGH OVERFLOW D-BOX DETAIL



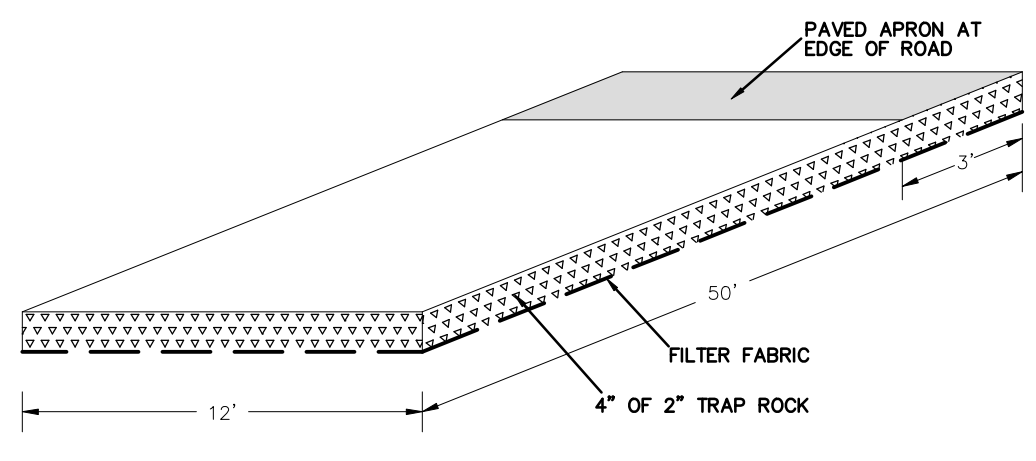
7 SOIL EROSION CONTROL PROVISIONS



8 CURTAIN DRAIN DETAIL



9 TELEPHONE, CABLE & ELECTRIC TRENCH DETAIL



9 ANTI-TRACKING PAD DETAIL

TEST PIT #1

TESTING DATE: 01/19/2023
PIT DEPTH: 51'
LOCATION: UPHILL TOWARD ROAD

DEPTH	SOIL DESCRIPTION
0-6"	TOPSOIL/FOREST LITTER
6-18"	ORANGE BROWN SILTY LOAM
18-51"	COMPACT CLAY

NOTES:
ROOTS = 18" MOTTLES = 18"
LEDGE = NONE WATER = 24"

TEST PIT #2

TESTING DATE: 01/19/2023
PIT DEPTH: 52'
LOCATION: DOWNHILL TOWARD ROAD

DEPTH	SOIL DESCRIPTION
0-4"	TOPSOIL/FOREST LITTER
4-18"	ORANGE BROWN SILTY LOAM
18-52"	COMPACT CLAY

NOTES:
ROOTS = 18" MOTTLES = 18"
LEDGE = NONE WATER = 24"

TEST PIT #3

TESTING DATE: 01/19/2023
PIT DEPTH: 50'
LOCATION: DOWNHILL INTERIOR

DEPTH	SOIL DESCRIPTION
0-6"	TOPSOIL/FOREST LITTER
6-19"	ORANGE BROWN SILTY LOAM
19-50"	COMPACT CLAY

NOTES:
ROOTS = 19" MOTTLES = 19"
LEDGE = NONE WATER = 24"

TEST PIT #4

TESTING DATE: 01/19/2023
PIT DEPTH: 48'
LOCATION: UPHILL TP#3

DEPTH	SOIL DESCRIPTION
0-6"	TOPSOIL/FOREST LITTER
6-20"	ORANGE BROWN SILTY LOAM
20-48"	COMPACT CLAY

NOTES:
ROOTS = 20" MOTTLES = 20"
LEDGE = NONE WATER = 36"

TEST PIT #5

TESTING DATE: 05/09/2023
PIT DEPTH: 48'
LOCATION: SOUTH OF TP#1

DEPTH	SOIL DESCRIPTION
0-8"	TOPSOIL
8-19"	ORANGE BROWN SILTY LOAM
19-48"	CLAY

NOTES:
ROOTS = 19" MOTTLES = 19"
LEDGE = NONE WATER = NONE

PERCOLATION TEST #1

TESTING DATE: 01/23/2023
PIT DEPTH: 20'
PRESOAK: 2 HOURS

TIME	DEPTH	RATE/MINUTE
0	4.125"	-
10	5"	11.4
20	5.75"	13.3
30	6.25"	20.0
40	6.75"	20
50	7.125"	26.7
60	7.625"	20

USE 20.1 TO 30 MIN/INCH

PERCOLATION TEST #2

TESTING DATE: 01/23/2023
PIT DEPTH: 19'
PRESOAK: 2 HOURS

TIME	DEPTH	RATE/MINUTE
0	6.5"	-
10	7"	20.0
20	7.5"	20.0
30	7.875"	26.7
40	8.25"	26.7
50	8.75"	20
60	9.125"	26.7

USE 20.1 TO 30 MIN/INCH

PERCOLATION TEST #3

TESTING DATE: 01/23/2023
PIT DEPTH: 18'
PRESOAK: 2 HOURS

TIME	DEPTH	RATE/MINUTE
0	5.25"	-
10	6.0"	13.33
20	6.625"	16.0
30	7.125"	20.0
40	7.625"	20.0
50	8.0"	26.67

USE 20.1 TO 30 MIN/INCH

**Colby Engineering
And Consulting, LLC**

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SEPTIC DETAILS
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COSHEN, CONNECTICUT

23026
C-501