

NOTE: NO FREE DRAINING MATERIAL IS TO BE USED IN BACKFILLING UNDERGROUND UTILITIES WITHIN 25' OF WELLS OR THE UP SLOPE / SIDES OR 50' DOWN SLOPE OF THE PROPOSED SEPTIC SYSTEMS.

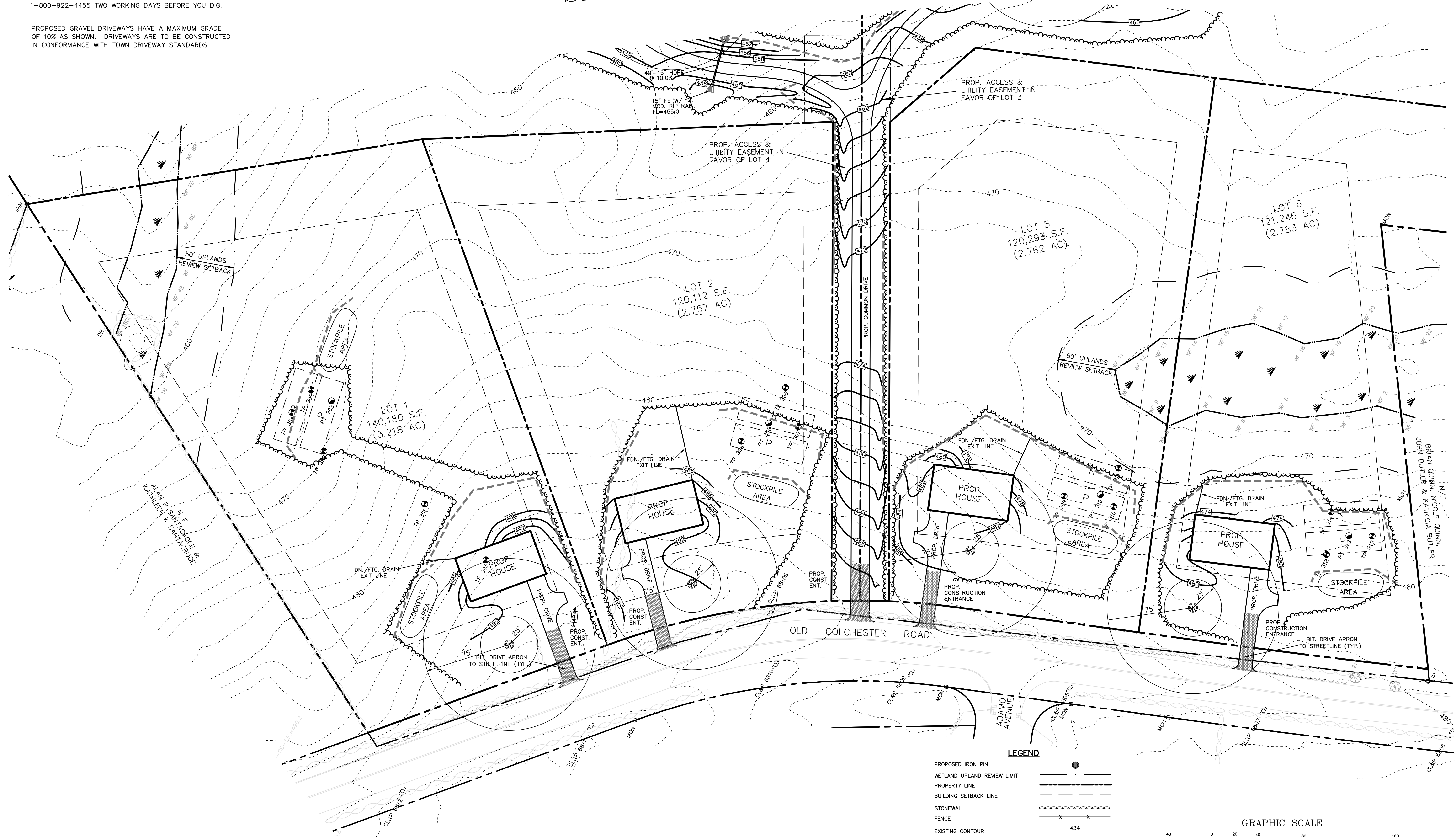
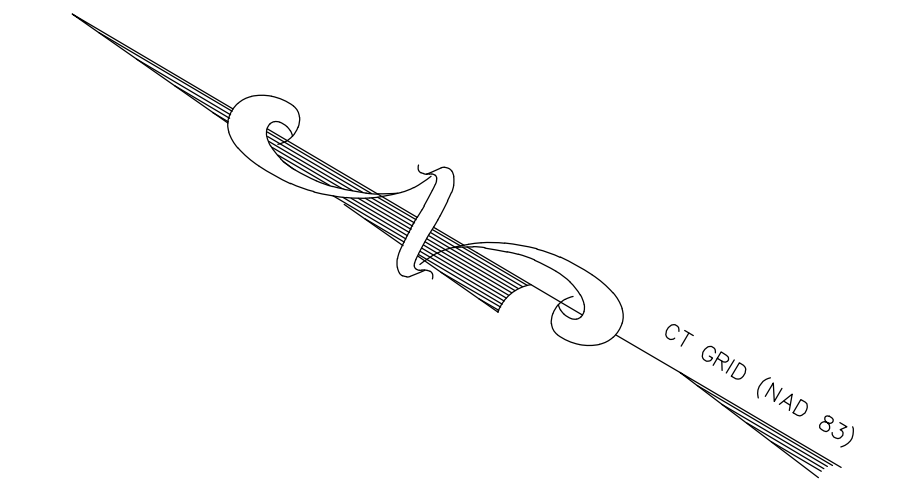
NOTE: ROOF & FOUNDATION DRAIN EXIT LINE PIPES ARE TO BE TIGHTPIPE WITHIN 25' OF THE PROPOSED SEPTIC SYSTEMS

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WARNING THESE PLANS NOT TO BE USED FOR LOCATION OF UNDERGROUND UTILITIES - CALL BEFORE YOU DIG 1-800-922-4455 TWO WORKING DAYS BEFORE YOU DIG.

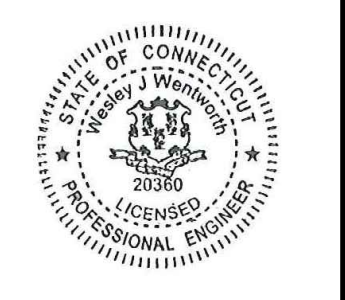
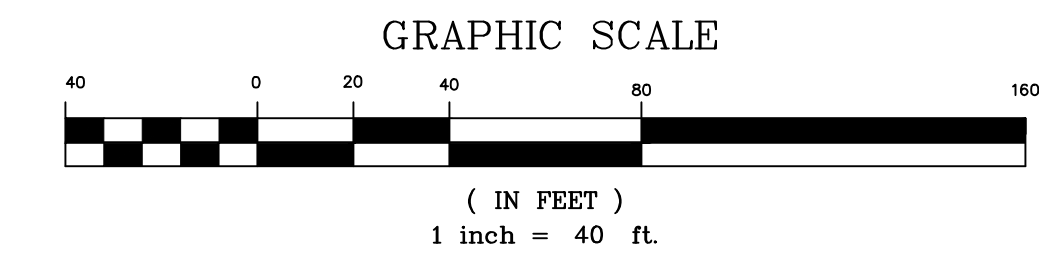
PROPOSED GRAVEL DRIVEWAYS HAVE A MAXIMUM GRADE OF 10% AS SHOWN. DRIVEWAYS ARE TO BE CONSTRUCTED IN CONFORMANCE WITH TOWN DRIVEWAY STANDARDS.

SEE SHEET 6



LEGEND

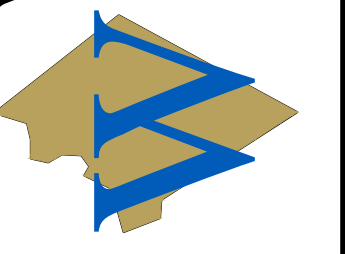
PROPOSED IRON PIN	●
WETLAND UPLAND REVIEW LIMIT	—
PROPERTY LINE	—
BUILDING SETBACK LINE	—
STONEWALL	—
FENCE	x x
EXISTING CONTOUR	434
PROPOSED CONTOUR	434.2
EXISTING SPOT ELEVATION	434.2
STAKED HAYBALES / SILTFENCE	—
PROPOSED LIMIT OF CLEARING	—



I HEREBY DECLARE TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS PLAN IS SUBSTANTIALLY CORRECT.

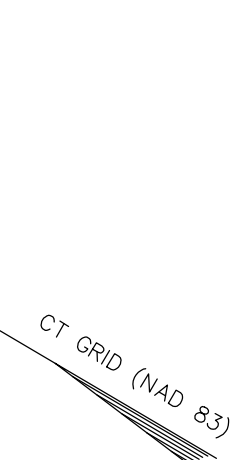
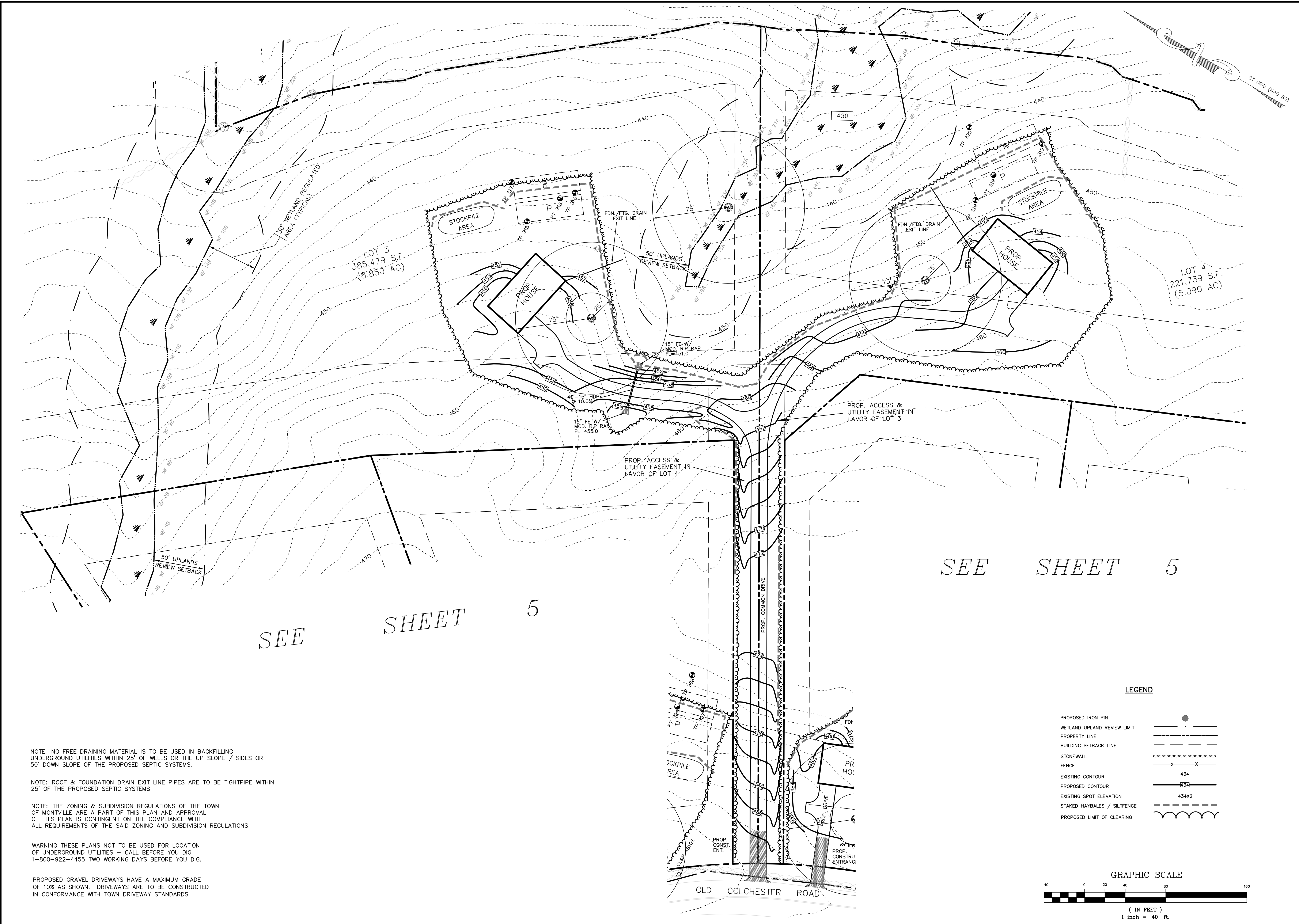
WESLEY J. WENTWORTH
P.E. # 20360

WENTWORTH CIVIL ENGINEERS LLC
177 WEST TOWN ST.
LEBANON, CT 06249
TEL. (860) 642-7255
FAX (860) 642-4794
web: wentworthcivil.com



SITE DEVELOPMENT PLAN & EROSION & SEDIMENTATION CONTROL PLAN
PINE GROVE SUBDIVISION
PREPARED FOR
D'AMATO BROTHERS BUILDERS
OLD COLCHESTER ROAD
MONTVILLE, CONNECTICUT

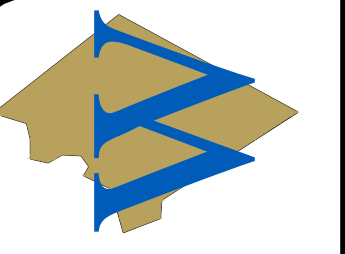
DATE: 7-28-23
SCALE: 1"=40'
SHEET 5 OF 8
MAP NO. 22-013-1T



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DATE: 7-28-23
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SHEET 6 OF 8
MAP NO. 22-013-1T

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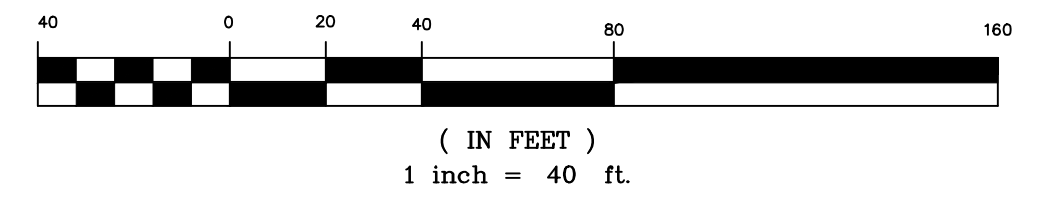
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LEGEND

- PROPOSED IRON PIN
- WETLAND UPLAND REVIEW LIMIT
- PROPERTY LINE
- BUILDING SETBACK LINE
- STONEWALL
- FENCE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- STAKED HAYBALES / SILTFENCE
- PROPOSED LIMIT OF CLEARING

GRAPHIC SCALE



SOILS DATA



SITE INVESTIGATION FOR SUBSURFACE SEWAGE DISPOSAL

Owner: Watch Hill Builders Location: Old Colchester Road Montville 6-lot subdivision

Deep Test Hole Data/Soil Descriptions

DATE: November 2, 2022

Test Hole # 301	Test Hole # 302	Test Hole # 303	Test Hole # 304
Ledge @ 11'	0 - 10" Topsoil 10 - 25" Loamy subsoil 23 - 76" Firm sand, some silt	0 - 9" Topsoil 9 - 28" Loamy subsoil 28 - 69" Firm sand, trace of silt	0 - 7" Topsoil 7 - 20" Loamy subsoil 29 - 90" Firm sand, trace of silt
Mottling: None GW: None Ledge: 18" Roots: None Restrictive: 18"	Mottling: 39" GW: 73" Ledge: None Roots: 41" Restrictive: 39"	Mottling: None GW: None Ledge: None Roots: 32" Restrictive: 69"	Mottling: None GW: None Ledge: None Roots: 42" Restrictive: 90"

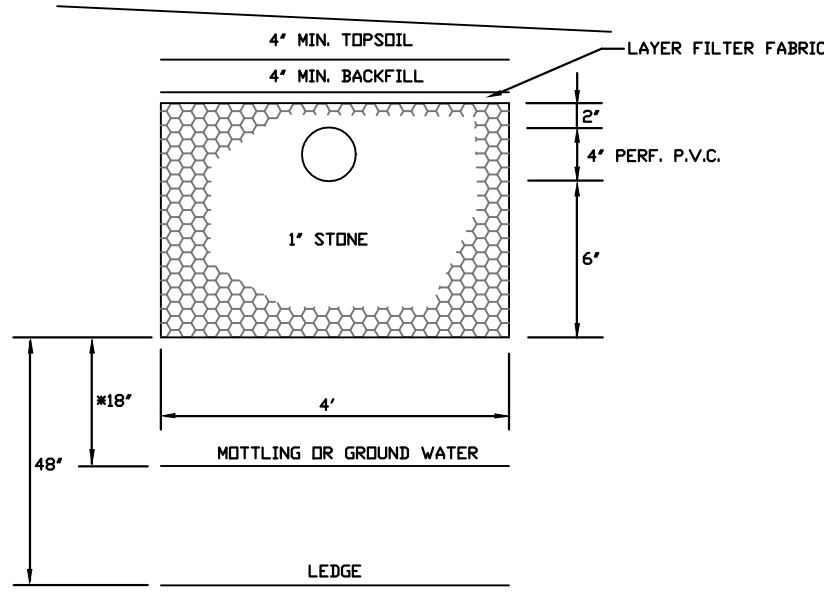
Test Hole # 305	Test Hole # 306	Test Hole # 307	Test Hole # 308
Ledge @ 19'	0 - 18" Topsoil 19 - 32" Loamy subsoil 32 - 80" Firm sand	0 - 13" Topsoil 13 - 30" Loamy subsoil 35 - 47" Firm sand, some silt 47 - 60" Medium & coarse sand	0 - 10" Topsoil 10 - 30" Loamy subsoil 30 - 74" Medium & coarse sand
Mottling: None GW: None Ledge: 19" Roots: None Restrictive: 19"	Mottling: 35" GW: None Ledge: None Roots: 35" Restrictive: 35"	Mottling: None GW: None Ledge: None Roots: 36" Restrictive: 60"	Mottling: None GW: None Ledge: None Roots: 48" Restrictive: 74"

Location: Old Colchester Road Montville 6-lot subdivision
DATE: November 2, 2022

Test Hole # 309	Test Hole # 310	Test Hole # 311	Test Hole # 312
0 - 6" Topsoil 9 - 25" Loamy subsoil 32 - 81" Medium sand	0 - 9" Topsoil 9 - 32" Loamy subsoil 32 - 81" Medium sand	0 - 12" Topsoil 12 - 25" Loamy subsoil 25 - 35" Firm sand, silt 35 - 75" Medium sand, some gravel	0 - 6" Topsoil 6 - 21" Loamy subsoil 21 - 82" Medium sand
Mottling: None GW: None Ledge: None Roots: 31" Restrictive: 77"	Mottling: None GW: None Ledge: 41" Roots: 61" Restrictive: 61"	Mottling: 35" GW: None Ledge: None Roots: 35" Restrictive: 35"	Mottling: None GW: None Ledge: None Roots: 42" Restrictive: 62"

Test Hole # 313	Test Hole # 314	Test Hole # 315	Test Hole # 316
0 - 6" Topsoil 8 - 25" Loamy subsoil 25 - 80" Medium sand	0 - 6" Topsoil 6 - 26" Loamy subsoil 26 - 82" Medium sand	0 - 9" Topsoil 9 - 26" Loamy subsoil 28 - 88" Firm medium sand, some silt	0 - 7" Topsoil 7 - 21" Loamy subsoil 21 - 87" Firm medium sand
Mottling: None GW: None Ledge: None Roots: 45" Restrictive: 60"	Mottling: None GW: None Ledge: None Roots: 26" Restrictive: 82"	Mottling: None GW: None Ledge: None Roots: 29" Restrictive: 68"	Mottling: None GW: None Ledge: None Roots: 42" Restrictive: 67"

Test Hole # 317	Test Hole # 318	Test Hole # 319	Test Hole # 320
0 - 9" Topsoil 9 - 32" Loamy subsoil 32 - 55" Compact fine sand, & silt 55 - 90" Medium sand, silt, stones	0 - 9" Topsoil 9 - 28" Loamy subsoil 28 - 55" Firm medium sand, trace silt	0 - 5" Topsoil 5 - 26" Loamy subsoil 28 - 79" Firm medium sand, trace silt	0 - 10" Topsoil 10 - 32" Loamy subsoil 32 - 83" Medium sand
Mottling: 32" GW: None Ledge: None Roots: 39" Restrictive: 32"	Mottling: None GW: None Ledge: None Roots: 34" Restrictive: 65"	Mottling: 41" GW: None Ledge: None Roots: 41" Restrictive: 41"	Mottling: None GW: None Ledge: None Roots: 49" Restrictive: 63"



4' WIDE TRENCH DETAIL
NOT TO SCALE

*SEPARATION TO GROUNDWATER IS INCREASED TO 24" WHEN PERCOLATION RATE IS FASTER THAN 5 MIN./IN.

NOTES: (THE FOLLOWING NOTES MAY APPLY)

THE LEACHING AREA IS TO BE STRIPPED OF ALL UNSUITABLE SOILS AND FILLED WITH CLEAN SAND, LAID IN SIX INCH LIFTS. FILL TO BE MECHANICALLY COMPACTED TO 90% MAXIMUM DENSITY. A MINIMUM SEPERATION DISTANCE OF 18" BETWEEN THE MOTTLING/GROUND WATER LAYER AND BOTTOM OF THE LEACHING ARE MUST BE MAINTAINED.

INSTALLATION OF ALL SEWAGE DISPOSAL SYSTEMS SHALL NOT OCCUR DURING WET WEATHER TO AVOID SOIL SMEARING.

FILLING OF STRIPPED AREAS SHALL NOT BE PERMITTED WHILE SMEARING OF THE SOILS OCCURS. ALL SMEARED SURFACES SHALL BE RAKED OR PLOWED PRIOR TO ANY FILLING AND AS DIRECTED BY THE TOWN HEALTH DEPARTMENT.

"SELECT FILL MATERIAL" AND "SELECT BACK FILL MATERIAL", PLACED WITHIN AND ADJACENT TO PROPOSED LEACHING AREAS SHALL BE COMPRISED OF CLEAN SAND AND GRAVEL, FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES. THE FILL MATERIAL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE APPROVED BY A PROFESSIONAL ENGINEER FOR USE WITHIN THE LEACHING AREA.

1. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THREE (3) INCHES.
2. UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE (THIS IS THE GRAVEL PORTION OF THE SAMPLE).
3. THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWORKED AND THE SIEVE ANALYSIS STARTED.
4. THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA:

SIEVE SIZE	PERCENT PASSING	
	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%

*NOTE: 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 RESPONSIBILITY FOR THE PREPARATION OF A LEACHING AREA UTILIZING "SELECT MATERIAL" IS THAT OF THE LICENSED INSTALLER. THE INSTALLER SHALL TAKE THE NECESSARY STEPS TO PROTECT THE UNDERLYING NATURALLY OCCURRING SOILS FROM OVERCOMPACTION AND SILTATION ONCE EXPOSED.

- A. ENDS OF TRENCHES TO BE CAPPED
- B. ENDS OF TRENCHES TO BE CAPPED
- C. THERE ARE NO WELLS LOCATED WITHIN 75 FEET OF EXISTING OR PROPOSED SEPTIC SYSTEMS.

SANITARY DESIGN

LOT 1

SEPTIC DESIGN

NO. BEDROOMS : 4
PERC. RATE : 5.1-10 MIN./IN.
SYSTEM AREA REQUIRED : 577.5 S.F.
USE 4' WIDE TRENCHES - 192.5 L.F. REQUIRED
USE (3) TRENCHES @ 65 L.F. EACH

NOTE: BOTTOM OF TRENCHES ARE TO EXTEND NO DEEPER THAN 21" INTO EXISTING GRADE UNLESS FURTHER SOIL TESTING IS PERFORMED.

MLSS

RESTRICTIVE LAYER : 39"
SLOPE : 3.1-4.0%
BEDROOMS: 4

PERCOLATION RATE: 5.0-10 MIN./IN.

MLSS = HF x FF x PF
MLSS = 30 x 1.75 x 1.0

MLSS = 53 L.F. (REQUIRED)

LOT 3

SEPTIC DESIGN

NO. BEDROOMS : 4
PERC. RATE : 5.1-10 MIN./IN.
SYSTEM AREA REQUIRED : 577.5 S.F.
USE 4' WIDE TRENCHES - 192.5 L.F. REQUIRED
USE (3) TRENCHES @ 65 L.F. EACH

NOTE: BOTTOM OF TRENCHES ARE TO EXTEND NO DEEPER THAN 14" INTO EXISTING GRADE UNLESS FURTHER SOIL TESTING IS PERFORMED.

MLSS

RESTRICTIVE LAYER : 32"
SLOPE : 10.1-15%
BEDROOMS: 4

PERCOLATION RATE: 5.1-10 MIN./IN.

MLSS = HF x FF x PF
MLSS = 20 x 1.75 x 1.0

MLSS = 35 L.F. (REQUIRED)

LOT 5

SEPTIC DESIGN

NO. BEDROOMS : 4
PERC. RATE : 1.1-5 MIN./IN.
SYSTEM AREA REQUIRED : 577.5 S.F.
USE 4' WIDE TRENCHES - 192.5 L.F. REQUIRED
USE (3) TRENCHES @ 65 L.F. EACH

NOTE: BOTTOM OF TRENCHES ARE TO EXTEND NO DEEPER THAN 11" INTO EXISTING GRADE UNLESS FURTHER SOIL TESTING IS PERFORMED.

MLSS

RESTRICTIVE LAYER : 35"
SLOPE : 10.1-15%
BEDROOMS: 4

PERCOLATION RATE: 1.0-5 MIN./IN.

MLSS = HF x FF x PF
MLSS = 20 x 1.75 x 1.0

MLSS = 35 L.F. (REQUIRED)

LOT 2

SEPTIC DESIGN

NO. BEDROOMS : 4
PERC. RATE : 5.1-10 MIN./IN.
SYSTEM AREA REQUIRED : 577.5 S.F.
USE 4' WIDE TRENCHES - 192.5 L.F. REQUIRED
USE (3) TRENCHES @ 65 L.F. EACH

NOTE: BOTTOM OF TRENCHES ARE TO EXTEND NO DEEPER THAN 17" INTO EXISTING GRADE UNLESS FURTHER SOIL TESTING IS PERFORMED.

MLSS

RESTRICTIVE LAYER : 35"
SLOPE : 8.1-10.0%
BEDROOMS: 4

PERCOLATION RATE: 5.0-10 MIN./IN.

MLSS = HF x FF x PF
MLSS = 24 x 1.75 x 1.0

MLSS = 42 L.F. (REQUIRED)

LOT 4

SEPTIC DESIGN

NO. BEDROOMS : 4
PERC. RATE : 5.1-10 MIN./IN.
SYSTEM AREA REQUIRED : 577.5 S.F.
USE 4' WIDE TRENCHES - 192.5 L.F. REQUIRED
USE (3) TRENCHES @ 65 L.F. EACH

NOTE: BOTTOM OF TRENCHES ARE TO EXTEND NO DEEPER THAN 23" INTO EXISTING GRADE UNLESS FURTHER SOIL TESTING IS PERFORMED.

MLSS

RESTRICTIVE LAYER : 41"
SLOPE : 10.1-15%
BEDROOMS: 4

PERCOLATION RATE: 5.1-10 MIN./IN.

MLSS = HF x FF x PF
MLSS = 18 x 1.75 x 1.0

MLSS = 32 L.F. (REQUIRED)

LOT 6

SEPTIC DESIGN

NO. BEDROOMS : 4
PERC. RATE : 1.1-5 MIN./IN.
SYSTEM AREA REQUIRED : 577.5 S.F.
USE 4' WIDE TRENCHES - 192.5 L.F. REQUIRED
USE (3) TRENCHES @ 65 L.F. EACH

NOTE: BOTTOM OF TRENCHES ARE TO EXTEND NO DEEPER THAN 32" INTO EXISTING GRADE UNLESS FURTHER SOIL TESTING IS PERFORMED.

MLSS

RESTRICTIVE LAYER GREATER THAN 60" - MLSS DOES NOT APPLY

PERCOLATION TESTING BY WENTWORTH CIVIL ENGINEERS, LLC - 11/02/22 - 11/09/22

WENTWORTH CIVIL ENGINEERS, LLC 177 WEST TOWN ST. LEBANON, CT 06249			
JOB NO.	2022-013	TEST HOLE NO.	PT 303
DATE:	11-02-22	BY:	WJW
DEPTH OF HOLE:	19-1/2"		
PERCOLATION TEST - COND.:			
TIME	READING	PRESOAK @	12:00
2:13	16"		
2:23	13-1/2"		
2:33	16-1/4"		
2:43	18"		5.7 min./in.
2:53	DRY		

WENTWORTH CIVIL ENGINEERS, LLC 177 WEST TOWN ST. LEBANON, CT 06249			
JOB NO.	2022-013	TEST HOLE NO.	PT 306
DATE:	11-02-22	BY:	WJW
DEPTH OF HOLE:	22"		
PERCOLATION TEST - COND.:			
TIME	READING	PRESOAK @	12:45
2:10	10"		
2:20	15-1/2"		
2:30	18-1/2"		
2:40	20-1/2"		5 min./in.
2:50	DRY		

WENTWORTH CIVIL ENGINEERS, LLC 177 WEST TOWN ST. LEBANON, CT 06249			
JOB NO.	2022-013	TEST HOLE NO.	PT 310
DATE:	11-08-22	BY:	WJW
DEPTH OF HOLE:	22"		
PERCOLATION TEST - COND.:			
TIME	READING	PRESOAK @	2:00
3:42	10"		
3:52	19"		
3:59	DRY		
4:00	10"		REFILL
4:08	17"		1.4 min./in.
4:14	<2"		

WENTWORTH CIVIL ENGINEERS, LLC 177 WEST TOWN ST. LEBANON, CT 06249			
JOB NO.	2022-013	TEST HOLE NO.	PT 313
DATE:	11-08-22	BY:	WJW
DEPTH OF HOLE:	21"		
PERCOLATION TEST - COND.:			
TIME	READING	PRESOAK @	2:10
3:45	9"		
3:54	17"		
4:01	<2"		
4:02	9"		REFILL
4:10	15"		
4:16	18-1/4"		3.1 min./in.
4:22	<2"		

WENTWORTH CIVIL ENGINEERS, LLC 177 WEST TOWN ST. LEBANON, CT 06249			
JOB NO.	2022-013	TEST HOLE NO.	PT 316
DATE:	11-02-22	BY:	WJW
DEPTH OF HOLE:	21"		
PERCOLATION TEST - COND.:			
TIME	READING	PRESOAK @	11:00
1:08	8"		
1:18	15"		
1:28	18-1/2"		
1:29	8"		REFILL
1:39	14"		
1:49	17-1/2"		
1:59	19-1/2"		5.0 min./in.
2:09	DRY		

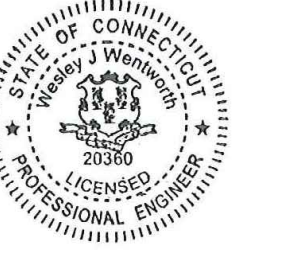
WENTWORTH CIVIL ENGINEERS, LLC 177 WEST TOWN ST. LEBANON, CT 06249			
JOB NO.	2022-013	TEST HOLE NO.	PT 318
DATE:	11-02-22	BY:	WJW
DEPTH OF HOLE:	20"		
PERCOLATION TEST - COND.:			
TIME	READING	PRESOAK @	11:10
1:12	7"		
1:22	12"		
1:32	16"		
1:42	18"		5 min./in.
1:52	<2"		

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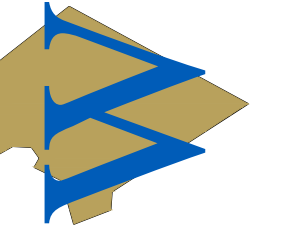
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SOILS, NOTES & DETAILS
PINE GROVE SUBDIVISION
PREPARED FOR
D'AMATO BROTHERS BUILDERS
OLD COLCHESTER ROAD
MONTVILLE, CONNECTICUT

DATE: 11-16-22

SCALE: NONE

SHEET 7 OF 8

MAP NO. 22-013-1N

GENERAL NOTES

ALL CONSTRUCTION METHODS TO CONFORM TO CONN. D.O.T. FORM 814 AND/OR THE TOWN STANDARD SPECIFICATIONS.
 THE LOCATION OF ALL EXISTING UTILITIES SHOWN IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATION OF EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND FOR COORDINATING CONNECTION OF PROPOSED AND EXISTING UTILITIES.
 TOWN MAY REQUIRE CHANGES TO THE PLAN TO ADDRESS PROBLEMS THAT MAY RESULT IN THE FIELD.
 ALL UTILITIES TO BE INSTALLED/DIRECTED BY APPROPRIATE AUTHORITIES.
 FOUNDATION DRAINS SHALL BE DEPICTED ON ALL PLOT PLANS.

HOUSE SITE DEVELOPMENT

ALL DRIVEWAY SHOULDERS SHOULD BE STABILIZED IMMEDIATELY UPON COMPLETION OF ROUGH GRADING. SHOULDER SEED BED PREPARATION SHOULD FOLLOW THE GENERAL NOTES PROVIDED. HAY BALES OR FILTER FABRIC SHOULD BE USED TO ENTRAP ANY SEDIMENT GENERATED FROM EXPOSED SOIL SURFACES. DRIVEWAY ROADSIDES SHALL BE STABILIZED WITH COMPACTED ROAD AGGREGATE AS SOON AS POSSIBLE.
 TOPSOIL AND EXCAVATED SUBSOIL FROM THE FOUNDATION AREA SHOULD BE STOCKPILED WITHIN THE AREA OF DISTURBANCE IF NOT USED FOR ON-SITE REGRADING. EACH STOCKPILE MUST BE ADEQUATELY RIGGED WITH SEDIMENT CONTROL MATERIALS (I.E. HAY BALES AND/OR FABRIC FENCE).
 ANY ADDITIONAL STOCKPILING OF LUMBER OR BUILDING MATERIALS SHOULD ALSO BE CONFINED TO THE AREA OF DISTURBANCE. SWIFTLY VEHICULAR MOVEMENT SHOULD BE DIRECTED TO ESTABLISHED PARKING AREAS. PROPOSED LEACHING SYSTEM AREAS MUST NOT BE IMPACTED BY VEHICULAR TRAFFIC OR UTILIZED AS PARKING AREAS. DEVELOPMENT OF SEWAGE DISPOSAL LEACHING AREAS SHOULD BE STAGED TO FOLLOW HOUSE SITE PREPARATION. ONLY THE PRIMARY LEACHING SYSTEM NEED BE CLEARED OF EXISTING VEGETATION IN COORDINATION WITH APPROVED SEPTIC DESIGN. RESERVE AREAS SHOULD REMAIN UNALTERED IF SITE CONDITIONS PERMIT.
 SOIL BOUNDARIES AND SOIL TYPES TAKEN FROM "SOIL SURVEY NEW LONDON COUNTY, CONNECTICUT", USDA SOIL METEOROLOGICAL BOUNDARIES DERIVED IN FIELD.
 STUMPAGE AND DEBRIS SHALL NOT BE BURIED ON SITE.
 PLOT PLANS FOR EACH LOT SHALL INDICATE PROPOSED SEDIMENTATION AND EROSION CONTROLS. ALSO THE PROPOSED HOUSE LOCATION, LOT GRADING LIMIT OF TREE CLEARING, DRIVEWAY DESIGN, SEPTIC SYSTEM DESIGN AND SITE DRAINAGE PLAN SHALL BE SHOWN. THESE PLANS SHALL BE SUBJECT TO REVIEW AND APPROVAL BY THE TOWN.
 UPON APPROVAL OF INDIVIDUAL SITE PLAN DEVELOPMENT, THE LIMITS OF DEVELOPMENT SHOULD BE ESTABLISHED IN THE FIELD FOR EACH PROPOSED RESIDENTIAL STRUCTURE. DISTURBANCE LIMITS OF 25-30 FEET BEYOND THE PHYSICAL DIMENSIONS OF THE STRUCTURE ARE RECOMMENDED.
 LEACHING FIELDS ARE TO BE LOCATED IN AREAS DESIGNATED ON SUBDIVISION PLAN.

SITE NARRATIVE

IN GENERAL THIS SITE CONSISTS OF 25.46 ACRES OF LAND TO BE DEVELOPED INTO 6 RESIDENTIAL BUILDING LOTS. HOUSES WILL BE SERVED BY ON-SITE PRIVATE WELLS AND ON-SITE SUBSURFACE SEPTIC SYSTEMS.
 THE NATURE OF THE PROPOSED CONSTRUCTION ACTIVITIES INCLUDE MINIMAL CLEARING AND GRUBBING, TOPSOIL STRIPPING, FOUNDATION CONSTRUCTION, DRIVEWAY, SEPTIC SYSTEM & WELL. ALL ACTIVITIES ARE DESIGNED WITH A STRONG FOCUS ON EROSION & SEDIMENTATION CONTROLS.
 SOME GENERAL KEYS TO SUCCESSFUL EROSION & SEDIMENTATION CONTROLS ARE AS FOLLOWS:
 1. KEEP CLEARING AND GRUBBING OF VEGETATION TO AN ABSOLUTE MINIMUM.
 2. MINIMIZE TIME OF EXPOSURE OF UNPROTECTED SOIL SURFACES.
 3. STABILIZE ALL GRADED AREAS WITH MULCH AND VEGETATION IMMEDIATELY AFTER GRADING.
 4. DIVERT RUNOFF AWAY FROM STEEPLY SLOPED & DISTURBED AREAS.
 5. MONITOR AND MAINTAIN CONTROLS REGULARLY (WEEKLY).

GENERAL

THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.
 IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INsofar AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS, AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES AND WATERBODIES, AND TO PREVENT, INsofar AS POSSIBLE, EROSION ON THE SITE.
 CONSTRUCTION METHODS, IN GENERAL, SHALL BE IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE STATE OF CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION.

LAND GRADING

- GENERAL:
 1. THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING BASIC CRITERIA:
 A) THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
 B) THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
 C) THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO FOUR VERTICAL (1:4).
 D) NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE, OR WASH UPON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT WETLANDS, WATERCOURSE OR WATERBODY.
 E) INSTALLATION OF SEDIMENT AND EROSION CONTROLS SUCH AS HAY BALES AND SILT FENCES SHALL BE ESTABLISHED PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITIES. ALL SEDIMENT AND EROSION CONTROL STRUCTURES MUST BE MONITORED AND MAINTAINED BY THE CONTRACTOR UNTIL THE SOIL SURFACE IS STABILIZED.
 F) IF NECESSARY, LATERAL WATER DIVERSIONS SHALL BE INSTALLED ACROSS THE GRADED ROADWAY TO PREVENT DOWNSLOPE OUTWASH AND EROSION.
 G) HAY BALES SHALL BE STAKED AND SILT FENCES SHALL BE PROPERLY SECURED. SEDIMENT WILL BE REMOVED FROM ALL CATCHMENTS AS NECESSARY.
 H) PRIOR TO ANY REGRADING, STONE APRON SHALL BE PLACED BY THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.
 I) PROVISIONS SHOULD BE MADE TO CONDUCT SURFACE WATER SAFELY TO STORM DRAINS, TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.
 J) EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT PROTECTING SUCH PROPERTY FROM EROSION, SLIDING, SETTling OR CRACKING.

TOPSOILING

- GENERAL:
 1. TOPSOIL SHALL BE SPREAD OVER ALL EXPOSED AREAS IN ORDER TO PROVIDE A SOIL MEDIUM HAVING FAVORABLE CHARACTERISTICS FOR THE ESTABLISHMENT, GROWTH AND MAINTENANCE OF VEGETATION.
 2. REMOVE ALL LARGE STONES, TREE LIMBS, ROOTS, AND CONSTRUCTION DEBRIS.
 3. APPLY LIME ACCORDING TO SOIL TEST OR AT THE RATE OF TWO (2) TONS PER ACRE.
 MATERIAL:
 1. TOPSOIL SHOULD HAVE PHYSICAL, CHEMICAL AND BIOLOGICAL CHARACTERISTICS FAVORABLE TO THE GROWTH OF PLANTS.
 2. TOPSOIL SHOULD HAVE A SANDY OR LOAMY TEXTURE.
 3. AN ORGANIC MATTER CONTENT OF OVER TWO (2%) PERCENT IS HIGHLY DESIRABLE. AVOID LIGHT COLORED LOWER SUBSOIL MATERIAL.
 APPLICATION:
 1. AVOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.
 2. SPREAD TOPSOIL UNIFORMLY TO A DEPTH OF AT LEAST FOUR (4") INCHES.

EROSION CHECKS

- GENERAL:
 1. TEMPORARY PEROUS BARRIERS USING BALES OF HAY OR STRAW, HELD IN PLACE WITH STAKES DRIVEN THROUGH THE BALES AND INTO THE GROUND, OR SEDIMENT FILTER FABRIC FASTENED TO FENCE POSTS AND BURIED INTO THE GROUND, SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO CHECK EROSION AND REDUCE SEDIMENTATION.
 CONSTRUCTION:
 1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 2. EACH BALE SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF FOUR (4") INCHES.
 3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES OR REINFORCEMENT BARS DRIVEN THROUGH THE BALES AND INTO THE GROUND. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD THE PREVIOUSLY Laid BALE TO FORCE BALES TOGETHER.
 4. FILTER FABRIC SHALL BE SECURELY FASTENED AT THE TOP OF A THREE (3) FOOT HIGH FENCE AND BURIED A MINIMUM OF FOUR (4") INCHES INTO THE SOIL. SEAMS BETWEEN SECTIONS OF FILTER FABRIC SHALL OVERLAP A MINIMUM OF TWO (2) FEET.
 INSTALLATION AND MAINTENANCE:
 1. BAILED HAY EROSION BARRIERS SHALL BE INSTALLED AT ALL STORM SEWER INLETS.
 2. BAILED HAY EROSION BARRIERS AND SEDIMENT FILTER FENCES SHALL BE INSTALLED AT THE LOCATIONS INDICATED ON THE PLAN AND IN ADDITIONAL AREAS AS MAY BE DEEMED APPROPRIATE DURING CONSTRUCTION.
 3. ALL EROSION CHECKS SHALL BE MAINTAINED UNTIL ADJACENT AREAS ARE STABILIZED.
 4. INSPECTION SHALL BE FREQUENT (AT MINIMUM MONTHLY AND BEFORE AND AFTER HEAVY RAIN) AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 5. EROSION CHECKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.

WINDBLOWN SEDIMENT

- GENERAL:
 1. ALL WINDBLOWN SEDIMENTS SHALL BE CONTROLLED AT ALL TIMES. THE SITE CONTRACTOR IS RESPONSIBLE FOR APPLYING DUST CONTROL AS OFTEN AS NEEDED TO PREVENT ANY WINDBLOWN SEDIMENTS FROM LEAVING THE SITE. PREDETERMINED TRAFFIC ROUTES FOR ALL TRAFFIC SHALL BE ESTABLISHED BY THE SITE CONTRACTOR TO STABILIZED ROUTES. TEMPORARY AND PERMANENT MULCHING AND TEMPORARY AND PERMANENT VEGETATIVE COVER SHALL BE USED TO MINIMIZE THE NEED FOR DUST CONTROL. MECHANICAL SWEEPERS SHALL BE USED ON ALL PAVED SURFACES TO PREVENT DUST BUILD UP DURING THE COURSE OF SITE WORK.
 METHODS:
 1. SPRAY ON ADHESIVES ARE ACCEPTABLE AND SHOULD BE APPLIED ACCORDING TO MANUFACTURER'S GUIDELINES.
 2. WATER IS ACCEPTABLE BUT MUST BE APPLIED OFTEN IN HOT, DRY WEATHER.
 3. CALCIUM CHLORIDE IS ACCEPTABLE BUT MUST BE APPLIED AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE.
 4. CRUSHED STONE OR COARSE GRAVEL CAN ALSO BE USED.

TEMPORARY VEGETATIVE COVER

- GENERAL:
 1. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL UNPROTECTED AREAS THAT PRODUCE SEDIMENT. AREAS WHERE FINAL GRADING HAS BEEN COMPLETED AND AREAS WHERE THE ESTIMATED PERIOD OF BARE SOIL EXPOSURE IS LESS THAN 12 MONTHS.
 SITE PREPARATION:
 1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
 2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
 3. APPLY LIME ACCORDING TO SOIL TEST OR AT A RATE OF ONE (1) TON OF GROUND DOLOMITIC LIMESTONE PER ACRE (5 LBS. PER 100 SQUARE FEET).
 4. APPLY FERTILIZER ACCORDING TO SOIL TEST OR AT THE RATE OF 300 LBS. OF 10-10-10 PER ACRE (7 LBS. PER 1,000 SQUARE FEET).
 5. UNLESS HYDROSEEDING, WORK IN LIME AND FERTILIZER TO A DEPTH OF FOUR (4") INCHES USING A DISK OR ANY SUITABLE EQUIPMENT.
 6. TILLAGE SHOULD ACHIEVE A REASONABLY UNIFORM, LOOSE SEEDBED. WORK ON CONTOUR IF SITE IS SLOPING.
 ESTABLISHMENT:
 1. USE ANNUAL RYEGRASS AT A RATE OF 40 LBS./AC. OR SUITABLE EQUIVALENT AS SPECIFIED IN THE "GUIDELINES".
 2. SEEDING TO BE DONE FROM APRIL 1ST TO JUNE 15 OR AUGUST 1ST TO OCTOBER 1ST. WINTER STABILIZATION PLANTINGS TO BE NO LATER THAN OCTOBER 1ST. THIS INCLUDES STOCKPILE AREAS.
 3. APPLY SEED UNIFORMLY ACCORDING TO THE RATE INDICATED BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
 4. UNLESS HYDROSEEDING, COVER RYEGRASS SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT. COVER SUBANGRASS AND SMALL GRASSES WITH 1/2 INCH SOIL.
 5. MULCH IMMEDIATELY AFTER SEEDING, IF REQUIRED, ACCORDING TO THE GUIDELINES IN THE "GUIDELINES".

PERMANENT VEGETATIVE COVER

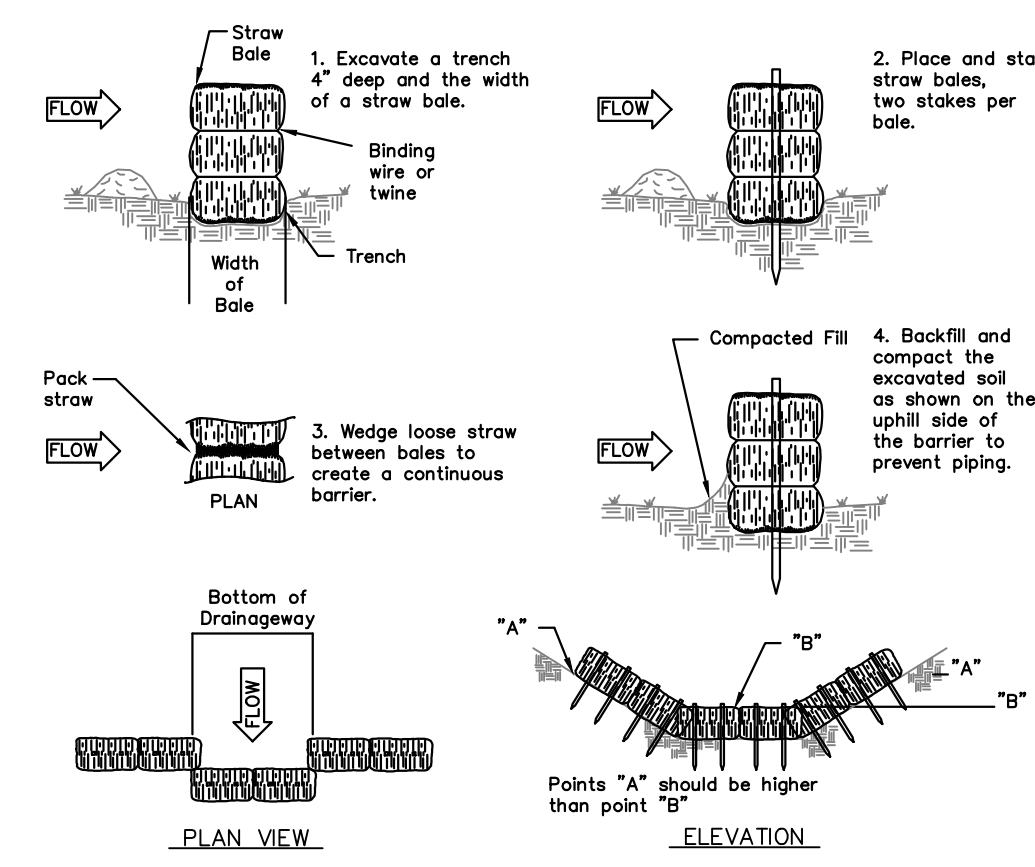
- GENERAL:
 1. PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED AS VARIOUS SECTIONS OF THE PROJECT ARE COMPLETED IN ORDER TO STABILIZE THE SOIL, REDUCE DOWNSTREAM DAMAGE FROM SEDIMENT AND RUNOFF AND TO ENHANCE THE AESTHETIC NATURE OF THE SITE. IT WILL BE APPLIED TO ALL CONSTRUCTION AREAS SUBJECT TO EROSION WHERE FINAL GRADING HAS BEEN COMPLETED AND A PERMANENT COVER IS NEEDED.
 SITE PREPARATION:
 1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
 2. REMOVE LOOSE ROCK, STONE AND CONSTRUCTION DEBRIS FROM AREA.
 3. PERFORM ALL PLANTING OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE.
 4. APPLY TOPSOIL AS INDICATED ELSEWHERE HEREIN.
 5. APPLY FERTILIZER ACCORDING TO SOIL TEST OR:
 - SPRING SEEDING:
 WORK DEEPLY IN SOIL, BEFORE SEEDING, 300 LBS OF 10-10-10 FERTILIZER PER ACRE (7 LBS PER 1,000 SQUARE FEET); THEN SIX (6) TO EIGHT (8) WEEKS LATER APPLY ON THE SURFACE AN ADDITIONAL 300 LBS OF 10-10-10 FERTILIZER PER ACRE.
 - FALL SEEDING:
 WORK DEEPLY IN SOIL, BEFORE SEEDING, 600 LBS OF 10-10-10 FERTILIZER PER ACRE (14 LBS PER 1,000 SQUARE FEET).
 ESTABLISHMENT:
 1. SMOOTH AND FIRM SEEDBED WITH CULTIPACKER OR OTHER SIMILAR EQUIPMENT PRIOR TO SEEDING (EXCEPT WHEN HYDROSEEDING).
 2. SELECT ADAPTED SEED MIXTURE AS FOLLOWS. NOTE RATES AND THE SEEDING DATES.

	LBS./ACRE	LBS./1000 S.F.
KENTUCKY BLUEGRASS	20	0.50
CREeping RED FESCUE	20	0.50
PERENNIAL RYEGRASS	05	0.10
TOTAL	45	1.10

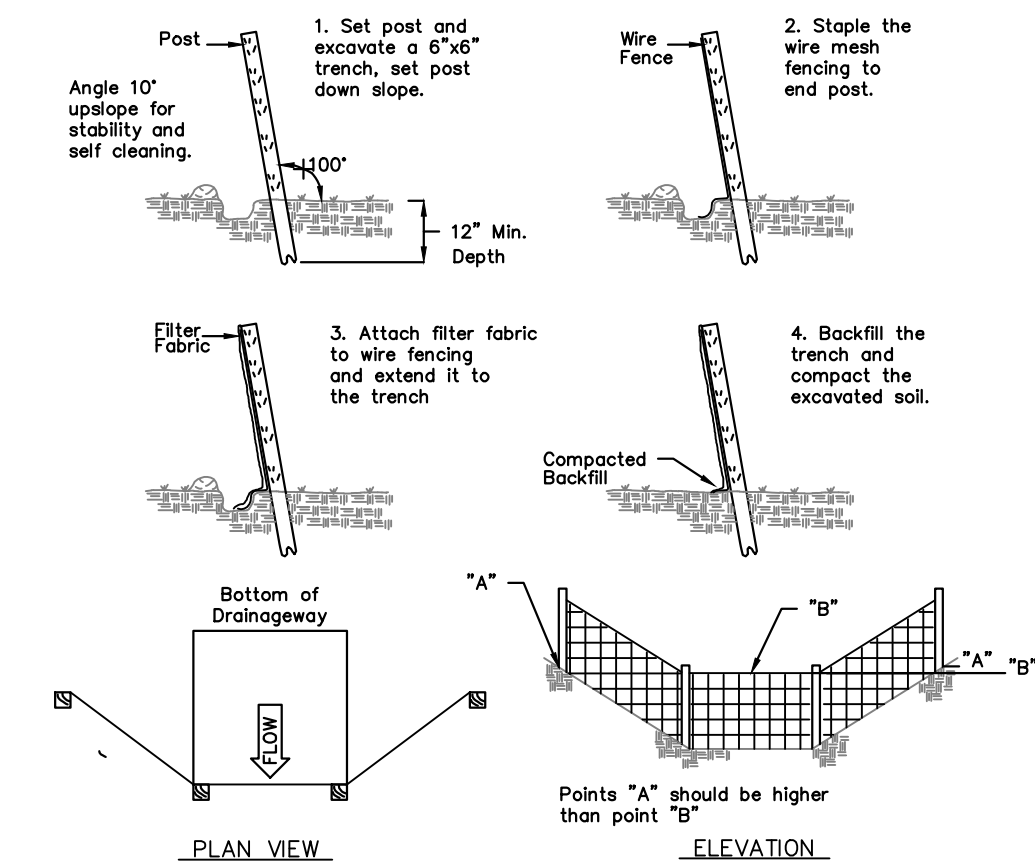
	LBS./ACRE	LBS./1000 S.F.
CREeping RED FESCUE	50	1.00
PERENNIAL RYEGRASS	05	0.10
TOTAL	55	1.10

	LBS./ACRE	LBS./1000 S.F.
CREeping RED FESCUE	40	1.00
TALL FESCUE	20	0.50
TOTAL	60	1.50

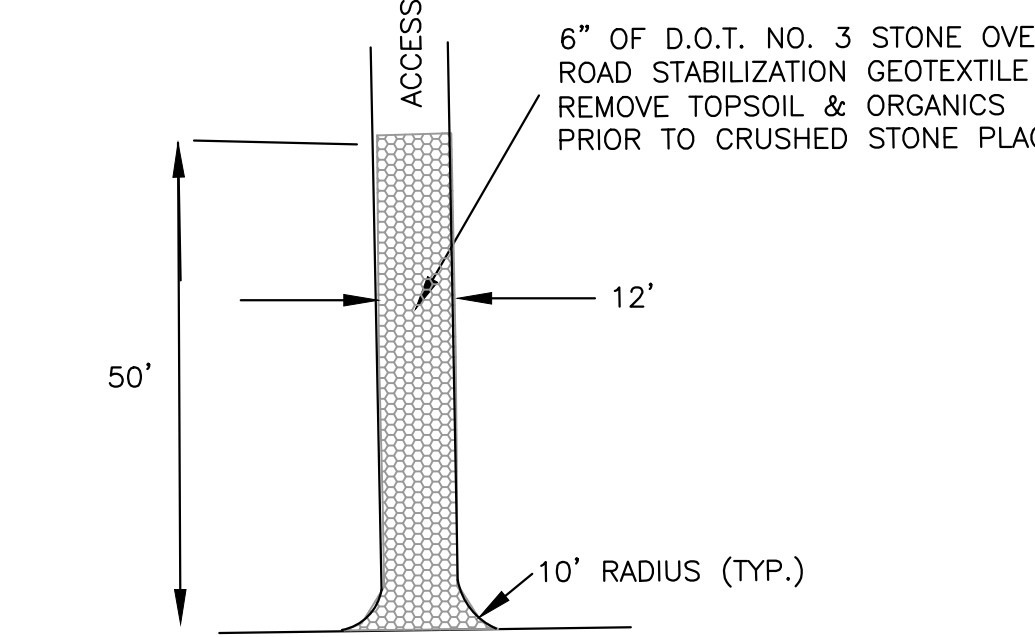
3. FINAL SEEDING SHALL TAKE PLACE PRIOR TO OCTOBER 1ST AS SEEDING AFTER THIS DATE RUNS A DISTINCT CHANCE OF FAILURE DUE TO ADVERSE WEATHER. ANY AREAS THAT ARE DISTURBED BETWEEN OCTOBER 1ST AND APRIL 1ST SHALL BE STABILIZED BY NON-VEGETATIVE MEANS SUCH AS HEAVY MULCHING WITH A BINDER OR JUTE MATTING WHICH WILL HAVE TO BE REMOVED BEFORE FINAL SEEDING AND THEN REPLACED AFTER FINAL SEEDING.
 4. APPLY SEED UNIFORMLY ACCORDING TO RATE INDICATED, BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
 5. COVER GRASS AND LEGUME SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT WHEN HYDROSEEDING).
 6. MULCH IMMEDIATELY AFTER SEEDING, IF REQUIRED, ACCORDING TO THE GUIDELINES IN THE "GUIDELINES".
 7. USE PROPER INOCULANT ON ALL LEGUME SEEDINGS, USE FOUR (4) TIMES NORMAL RATE WHEN HYDROSEEDING.



PLACEMENT AND CONSTRUCTION OF A STRAW BALE BARRIER



PLACEMENT AND CONSTRUCTION OF A SYNTHETIC FILTER BARRIER



CONSTRUCTION ENTRANCE DETAIL

NOTE: NO FREE DRAINING MATERIAL IS TO BE USED IN BACKFILLING UNDERGROUND UTILITIES WITHIN 25' OF WELLS OR THE UP SLOPE / SIDES OR 50' DOWN SLOPE OF THE PROPOSED SEPTIC SYSTEMS.

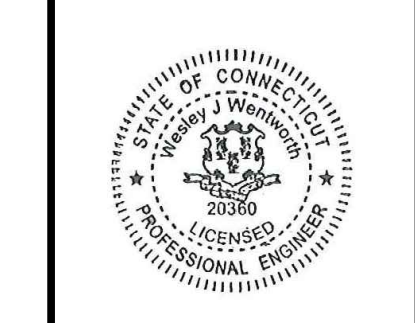
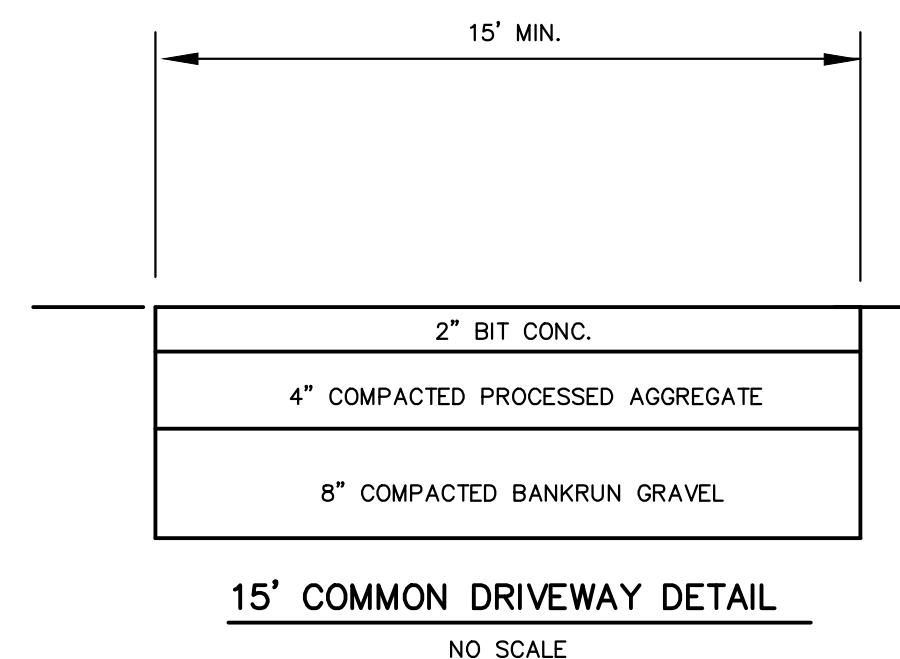
NOTE: ROOF & FOUNDATION DRAIN EXIT LINE PIPES ARE TO BE TIGHTPIPE WITHIN 25' OF THE PROPOSED SEPTIC SYSTEMS.

NOTE: THE ZONING & SUBDIVISION REGULATIONS OF THE TOWN OF MONTVILLE ARE A PART OF THIS PLAN AND APPROVAL OF THIS PLAN IS CONTINGENT ON THE COMPLIANCE WITH ALL REQUIREMENTS OF THE SAID ZONING AND SUBDIVISION REGULATIONS.

WARNING THESE PLANS NOT TO BE USED FOR LOCATION OF UNDERGROUND UTILITIES - CALL BEFORE YOU DIG 1-800-922-4455 TWO WORKING DAYS BEFORE YOU DIG.

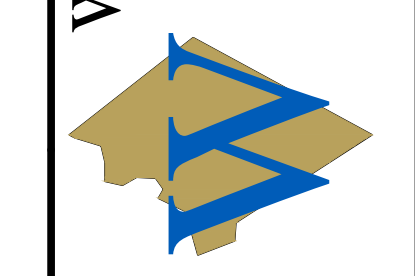
	CONSTRUCTION SCHEDULE											
	BEGIN CONST.	0	30	60	90	120	150	180	210	240	270	300
INSTALLATION OF EROSION & SEDIMENTATION CONTROLS	[Bar from 0 to 210]											
INSPECTION & MAINTENANCE OF EROSION & SEDIMENTATION CONTROLS	[Bar from 0 to 210]											
INSTALL SITE CONSTRUCTION ENTRANCE FOR DRIVEWAY	[Bar from 0 to 210]											
CLEARING & GRUBBING	[Bar from 0 to 30]											
STRIP & STOCKPILE TOPSOIL	[Bar from 0 to 30]											
INSTALL DRIVEWAY	[Bar from 0 to 210]											
BUILDING CONSTRUCTION	[Bar from 30 to 210]											
INSTALL WELL & SEPTIC SYSTEM	[Bar from 30 to 210]											
GRADE, TOPSOIL & STABILIZE	[Bar from 210 to 240]											
FERTILIZE, LIME, SEED, & MULCH	[Bar from 210 to 240]											
ESTABLISHMENT OF VEGETATION	[Bar from 210 to 240]											
REMOVE EROSION & SEDIMENT CONTROLS	[Bar from 210 to 240]											

NOTES:
 ACTUAL DATE: (DAYS)
 CONST. STARTING DATE DEPENDS ON APPROVAL DATE OF PROJECT, BONDING & WEATHER CONDITIONS.
 SHOULD BE PLANTED BETWEEN: 4-15 & 6-15 OR 8-15 & 9-15 (FOR PERMANENT) IF NOT MULCH WITH STRAW & MULCH NETS
 3-1 & 6-15 OR 8-1 & 10-1 (FOR TEMPORARY) IF NOT MULCH WITH STRAW & MULCH NETS



I HEREBY DECLARE TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS PLAN IS SUBSTANTIALLY CORRECT.
 WESLEY J. WENTWORTH
 P.E. # 20360

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SOILS, NOTES & DETAILS
PINE GROVE SUBDIVISION
 PREPARED FOR
D'AMATO BROTHERS BUILDERS
 OLD COLCHESTER ROAD
 MONTVILLE, CONNECTICUT

DATE: 7-28-23
 SCALE: NONE
 SHEET 8 OF 8
 MAP NO. 22-013-1N