

DEEP TEST PIT RESULTS

TEST PITS WERE PERFORMED ON JUNE 11, 2025 AND WITNESSED BY ODALYS REYES MORALES, R.S. OF THE LEDGE LIGHT HEALTH DISTRICT.

TP#1
0'-10" TOPSOIL
10'-30" ORANGE BROWN FINE SANDY LOAM
30'-40" LIGHT BROWN STRATIFIED LAYERS, MEDIUM SAND & COBBLES, LITTLE GRAVEL
40'-80" COMPACT LIGHT GRAY FINE TO MEDIUM SAND W/ BOULDER AT BOTTOM
NO MOTTLING, NO GROUNDWATER, NO LEDGE (BOULDER @ 80')
RESTRICTIVE @ 80'

TP#2
0'-11" TOPSOIL
11'-46" ORANGE BROWN FINE SANDY LOAM
46'-57" LIGHT BROWN SAND & GRAVEL W/ COBBLES, STRATIFIED LAYERS
57'-105" LIGHT BROWN FINE TO MEDIUM SAND W/ COBBLES
NO MOTTLING, NO GROUNDWATER, NO LEDGE
RESTRICTIVE @ 105'

TP#3
0'-9" TOPSOIL
9'-38" ORANGE BROWN FINE SANDY LOAM
38'-98" LIGHT BROWN FINE TO MEDIUM SAND & GRAVEL W/ COBBLES
NO MOTTLING, SEEPAGE @ 88", NO LEDGE
RESTRICTIVE @ 88'

SANITARY DESIGN CRITERIA

PROPOSED 3-BEDROOM HOUSE (W/ OFFICE, SIZED FOR 4-BEDROOMS)
DESIGN PERCOLATION RATE < 10.1 MINUTES/INCH
LEACHING AREA REQUIRED = 577.5 SF EFFECTIVE (495 SF + 82.5 SF)
DESIGN: 1,500 GALLON SEPTIC TANK AND 1 ROW OF 58' OF GEOMATRIX GST
6212 LEACHING MEDIA INSTALLED PER MANUFACTURER'S REQUIREMENTS
LEACHING AREA PROVIDED = 580 SF EFFECTIVE (58 LF X 10.0 SF/LF)
100% RESERVE AREA PROVIDED (1 ROW OF 58' OF GEOMATRIX GST 6212
LEACHING MEDIA INSTALLED PER MANUFACTURER'S REQUIREMENTS)

MINIMUM LEACHING SYSTEM SPREAD (MLSS) CALCULATION
RECEIVING SOIL DEPTH > 60", MLSS NEED NOT BE CONSIDERED

REMOVAL OF LEDGE ROCK

- CONTRACTOR SHALL OBTAIN BLASTING PERMIT FROM THE TOWN OF LEDYARD PRIOR TO ANY BLASTING ACTIVITIES.
- ALL EXPLOSIVE DEMOLITION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS AND ORDINANCES. NO EXPLOSIVE DEMOLITION SHALL TAKE PLACE BETWEEN THE HOURS OF 5:00 PM AND 7:00 AM ON ANY DAY, AND NO EXPLOSIVE DEMOLITION SHALL OCCUR ON SUNDAYS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING A FULL AND COMPLETE PRE-BLAST SURVEY OF ANY AND ALL PROPERTIES THAT MAY BE AFFECTED BY EXPLOSIVE DEMOLITION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE PROTECTION OF ANY PART OF ANY PROPERTY THAT MAY BE AFFECTED BY EXPLOSIVE DEMOLITION ACTIVITIES, AND SHALL BE RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ANY DAMAGED PORTION OF SAID PROPERTIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, RESTORING AND GENERAL MAINTENANCE OF ALL ADJACENT AND ABUTTING PROPERTIES, STRUCTURES, AND PORTIONS THEREOF THAT MAY BE DAMAGED OR OTHERWISE AFFECTED BY THE CONSTRUCTION/DEMOLITION ACTIVITIES ON THIS PROJECT. THE CONTRACTOR'S RESPONSIBILITY SHALL EXTEND TO AT LEAST THE POINT WHERE THE PROPERTY/STRUCTURE IS FULLY RESTORED, REPLACED OR ESTABLISHED AND/OR STABILIZED. ALL EFFORTS, MATERIALS AND INSTALLATION SHALL BE PAID FOR BY THE CONTRACTOR.

PERCOLATION TEST RESULTS

PERCOLATION TESTS WERE PERFORMED ON JUNE 13, 2025 BY BOUNDARIES LLC.

P-1		P-2	
DEPTH = 30"		DEPTH = 30"	
PRESOAK @ 10:10		PRESOAK @ 10:12	
TIME	READING	TIME	READING
11:00	12-3/4"	11:12	16"
11:05	13-1/2"	11:17	17-1/2"
11:10	14-3/4"	11:22	18-1/2"
11:15	15-1/2"	11:27	19-1/2"
11:20	17"	11:32	20-1/2"
11:25	17-1/2"	11:37	21-1/4"
11:30	18-1/4"	11:42	22"
11:35	19"	11:47	22-3/4"
11:40	19-1/2"	11:52	23-1/2"
11:45	20"	11:57	24-1/4"
11:50	20-1/2"	12:02	25"
11:55	21"	12:07	25-3/4"
12:00	21-1/2"	12:12	26-1/2"

PERCOLATION RATE AT 30"
DEPTH = 10.0 MINUTES/INCH

PERCOLATION RATE AT 30"
DEPTH = 6.7 MINUTES/INCH

ZONING COMPLIANCE TABLE: R-60

ITEM	REQUIRED	PROVIDED
MINIMUM LOT SIZE	60,000 SF	28,490 SF*
MINIMUM LOT FRONTAGE	200 FT	520.21 FT
MINIMUM FRONT YARD FROM CL OF ROAD*	40 FT*	40.8± FT
MINIMUM SIDE YARD	20 FT	35.1± FT
MINIMUM REAR YARD	30 FT	35.1± FT
MAXIMUM HEIGHT	35 FT	<35 FT
MAXIMUM LOT COVERAGE	20%	16.5%
WATER SUPPLY	PRIVATE WELL	
SANITARY	SSDS	

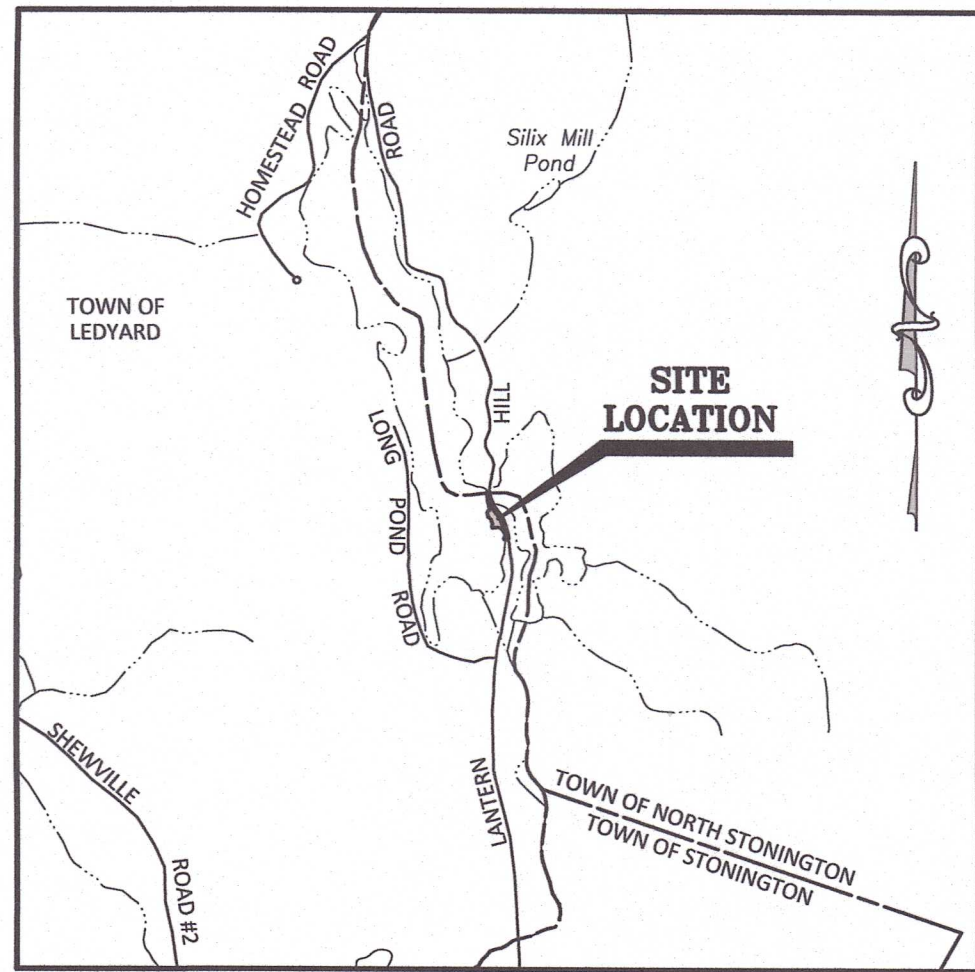
*THE SUBJECT PROPERTY BENEFITS FROM A VARIANCE RECORDED IN THE TOWN OF LEDYARD LAND RECORDS VOLUME 333, PAGE 185 REDUCING THE MINIMUM REQUIRED LOT AREA AND FRONT YARD SETBACK.

SURVEY NOTES

- THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300B-1 THROUGH 20-300B-20 AND THE "STANDARDS AND SUGGESTED METHODS AND PROCEDURES FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED FOR USE BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON AUGUST 29, 2019. IT IS A TOPOGRAPHIC SURVEY BASED ON RESURVEY AND CONFORMS TO HORIZONTAL CLASS A-2 AND TOPOGRAPHIC CLASS T-2 ACCURACY STANDARDS. IT IS INTENDED TO BE USED FOR MUNICIPAL PERMITTING AND SITE DEVELOPMENT PURPOSES.
- NORTH ORIENTATION DEPICTED HEREON IS APPROXIMATE NORTH AMERICAN DATUM 1983 (NAD83) BASED ON GLOBAL POSITIONING SYSTEM OBSERVATIONS, OBSERVED ON SEPTEMBER 18, 2024.
- VERTICAL DATUM DEPICTED HEREON IS APPROXIMATE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88) BASED ON GLOBAL POSITIONING SYSTEM OBSERVATIONS USING GEOID18 ON SEPTEMBER 18, 2024.
- THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON THE LOCATION OF ABOVE GROUND STRUCTURES AND RECORD DRAWINGS PROVIDED BY OTHERS. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES. ALL SUBTERRANEAN FEATURES AND IMPROVEMENTS MAY NOT BE DEPICTED OR NOTED HEREON. THE LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. CONTACT "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OPERATIONS.
- THE FIELD SURVEY WAS COMPLETED ON SEPTEMBER 18, 2024 AND UPDATED ON JUNE 9, 2026. LAND RECORD AND RELATED RESEARCH WAS COMPLETED ON SEPTEMBER 17, 2024.
- RECORD TITLE TO THE SUBJECT PROPERTY MAY BE REFERENCED TO A WARRANTY DEED FROM RONALD K. LEWIS AND CHRISTINE KENYON-LEWIS TO JAMES M. HOLLEY AND HEKE S. HOLLEY RECORDED JULY 14, 2003 IN THE TOWN OF LEDYARD LAND RECORDS VOLUME 359, PAGE 33.
- PROPERTY IS SUBJECT TO A VARIANCE RECORDED IN VOLUME 333, PAGE 185.
- THE SUBJECT PROPERTY IS LOCATED IN A FEMA SPECIAL FLOOD HAZARD AREA (ZONE A) PER FLOOD INSURANCE RATE MAP 08011C0378G WITH AN EFFECTIVE DATE OF JULY 18, 2011. LIMITS OF FLOOD HAZARD ZONE ARE APPROXIMATE AND SCALED FROM THE FEDERAL FLOOD HAZARD MAPS.

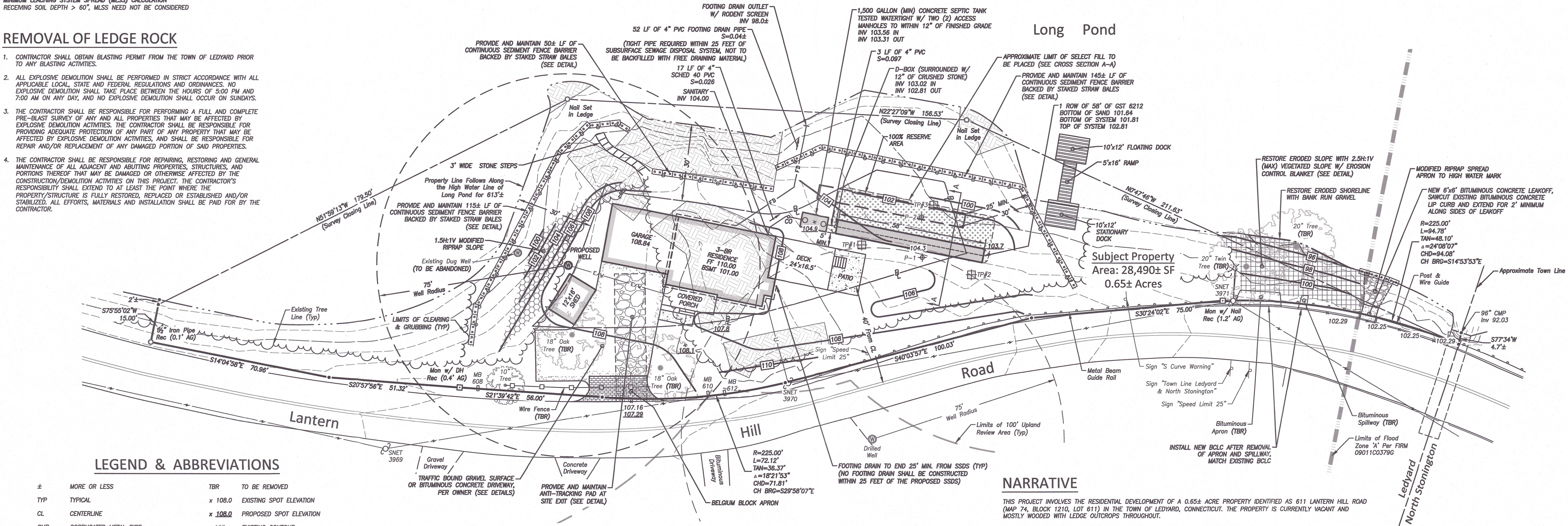
REFERENCE MAP

- PLAN SHOWING PROPERTY OF CHRISTINE-KENYON LEWIS AND RONALD K. LEWIS, 611 LANTERN HILL ROAD, LEDYARD, CONNECTICUT, SCALE: 1"=40', DATED: JUNE 2003, PREPARED BY: DIETER, GARDNER & MEREEN, INC.



LOCATION MAP

SCALE: 1" = 2,000'



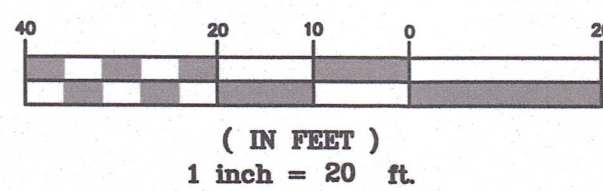
LEGEND & ABBREVIATIONS

±	MORE OR LESS	TBR	TO BE REMOVED
TYP	TYPICAL	x 108.0	EXISTING SPOT ELEVATION
CL	CENTERLINE	x 108.0	PROPOSED SPOT ELEVATION
CMP	CORRUGATED METAL PIPE	108	EXISTING CONTOUR
SSDS	SUBSURFACE SEWAGE DISPOSAL SYSTEM	108	PROPOSED CONTOUR
PVC	POLYVINYL CHLORIDE	—	BUILDING SETBACK LINE
SF	SQUARE FEET	—	TREE LINE
BR	BEDROOM	—	LIMITS OF CLEARING & GRUBBING
FF	FINISHED FLOOR	—	GUIDE RAIL
BSMT	BASEMENT	—	OVERHEAD WIRES
ELEV	ELEVATION	—U—	UNDERGROUND UTILITIES
INV	INVERT	—E/W—	ELECTRIC & WATER
CO	CLEANOUT	—FD—	FOOTING DRAIN PIPE
LF	LINEAR FEET	□	MONUMENT
S	SLOPE	○	IRON PIPE OR NAIL
SCHED	SCHEDULE	●	ANGLE POINT
MON	MONUMENT	○	UTILITY POLE
DH	DRILL HOLE	—	GUY WIRE
REC	RECOVERED	⊞	DEEP TEST PIT
AG	ABOVE GRADE	⊕	PERCOLATION TEST
MB	MAILBOX	⊕	WELL
SNET	SOUTHERN NEW ENGLAND TELEPHONE	—	SIGN

WETLAND CONSERVATION NOTE

THIS PROPERTY HAS WETLAND, WATERCOURSE, SWAMP, MARSH OR BOG CHARACTERISTICS, WHICH HAVE BEEN DEFINED BY THIS DOCUMENT BEFORE THE INLAND WETLANDS AND WATERCOURSES COMMISSION OF THE TOWN OF LEDYARD, CONNECTICUT. PURCHASE OF THIS PROPERTY CONVEYS THE RESPONSIBILITY OF ABIDING BY ALL FEDERAL, STATE AND MUNICIPAL REGULATIONS FOR THE PRESERVATION AND PROTECTION OF THESE "REGULATED AREAS". SEE THE "INLAND WETLANDS AND WATERCOURSES REGULATIONS OF THE TOWN OF LEDYARD" FOR PERMITTED AND REGULATED USES OF THESE AREAS. ANY SUBSEQUENT CHANGES TO THESE PLANS WILL REQUIRE APPROVAL OF THE INLAND WETLANDS AND WATERCOURSES COMMISSION OF THE TOWN OF LEDYARD.

GRAPHIC SCALE



NARRATIVE

THIS PROJECT INVOLVES THE RESIDENTIAL DEVELOPMENT OF A 0.65± ACRE PROPERTY IDENTIFIED AS 611 LANTERN HILL ROAD (MAP 74, BLOCK 1210, LOT 611) IN THE TOWN OF LEDYARD, CONNECTICUT. THE PROPERTY IS CURRENTLY VACANT AND MOSTLY WOODED WITH LEDGE OUTCROPS THROUGHOUT.

THE CURRENT ZONING DESIGNATION OF THE SUBJECT PROPERTY IS RESIDENTIAL R-60.

THIS PLAN PROPOSES THE CONSTRUCTION OF A NEW 3-BEDROOM, SINGLE-FAMILY RESIDENCE AND ALL ASSOCIATED IMPROVEMENTS INCLUDING A SUBSURFACE SEWAGE DISPOSAL SYSTEM, NEW DRILLED WELL, DRIVEWAY, DOCK, AND REQUIRED CLEARING AND GRADING. IN ADDITION, THIS PLAN PROPOSES IMPROVEMENTS TO THE ERODED SHORELINE ALONG THE EASTERLY EDGE OF LONG POND AT THE NORTHERN END OF THE PROPERTY.

THE SUBJECT PARCEL IS LOCATED ON THE SHORE OF LONG POND AND THE ENTIRETY OF THE PARCEL IS LOCATED WITHIN THE 100 FOOT UPLAND REVIEW AREA ASSOCIATED WITH LONG POND. ALL SITE IMPROVEMENTS ARE LOCATED WITHIN THE 100 FOOT UPLAND REVIEW AREA AND ALL WORK WILL REQUIRE A WETLAND PERMIT FROM THE TOWN OF LEDYARD. THE ONLY WORK PROPOSED WITHIN LONG POND IS THE INSTALLATION OF A FLOATING DOCK AND RESTORATION OF AN ERODED SLOPE RESULTING FROM ROAD STORMWATER RUNOFF. SEDIMENT FENCE BARRIER BACKED BY STAKED STRAW BALES WILL BE USED DOWN-GRADIENT OF ALL WORK. DEVELOPMENT OF THIS PROPERTY WILL REQUIRE APPROXIMATELY 0.33± ACRES (14,350± SF) OF LAND DISTURBANCE, ALL OF WHICH BEING LOCATED WITHIN THE UPLAND REVIEW AREA.

ACCORDING TO THE UNITED STATES DEPARTMENT OF AGRICULTURE (USDA), NATURAL RESOURCES CONSERVATION SERVICE (NRCS) WEB SOIL SURVEY FOR THE STATE OF CONNECTICUT, SOIL TYPES PRESENT ON THE SUBJECT PROPERTY ARE AS FOLLOWS:

703B HAVEN SILT LOAM, 3-8% SLOPES

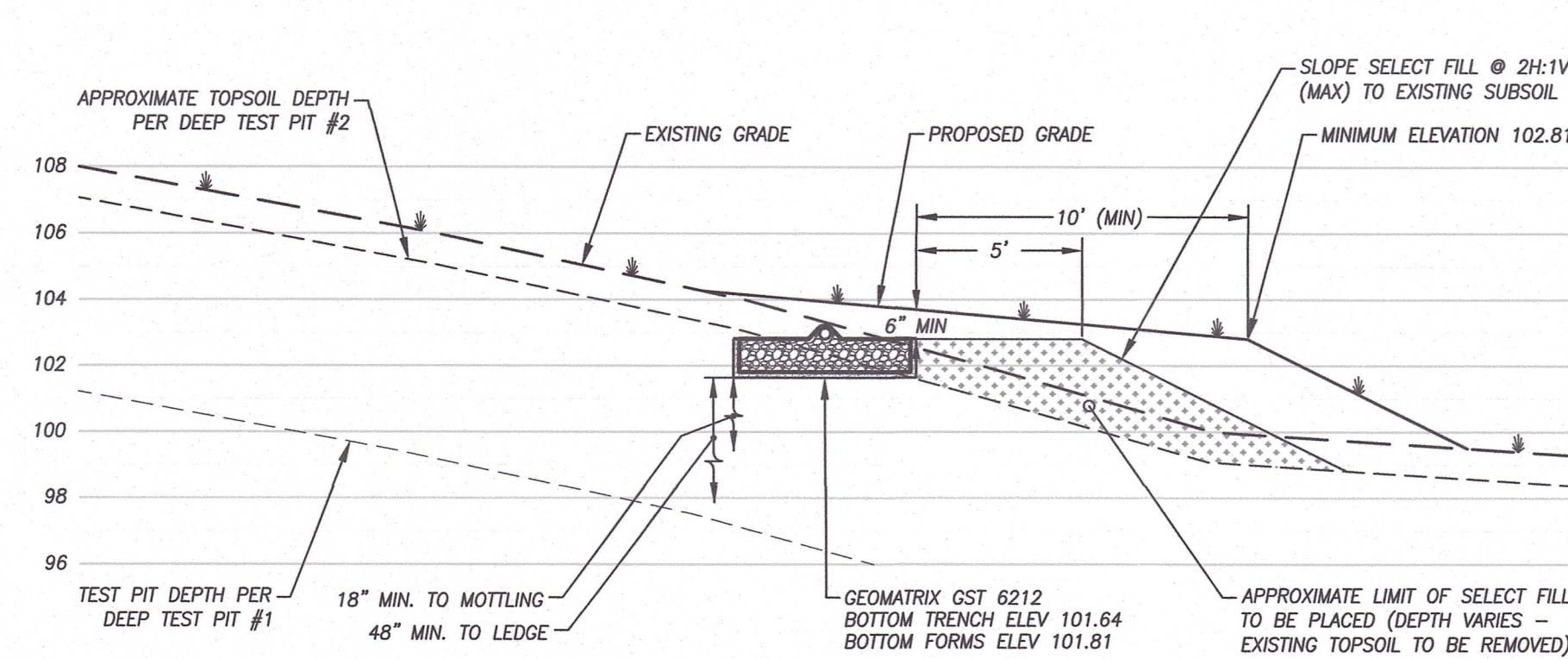
TOPSOIL WILL BE STOCKPILED ON-SITE FOR REUSE IN CONJUNCTION WITH FINAL GRADING AND FOR STABILIZING AREAS OUTSIDE OF BUILDING, CIRCULATION AND PARKING AREAS. AFTER GRADING IS COMPLETED, A 4" MINIMUM DEPTH OF TOPSOIL SHALL BE PLACED AND SEEDED WITH GRASS AND MULCHED FOR PERMANENT STABILIZATION.

SEDIMENT FENCE BACKED BY STAKED STRAW BALES SHALL BE INSTALLED AT LOCATIONS SHOWN PRIOR TO ANY EARTHWORK OPERATIONS. THESE MEASURES SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.

CONSTRUCTION OF THE PROPOSED RESIDENCE IS INTENDED TO COMMENCE IN SUMMER 2026 AND BE COMPLETE BY SUMMER 2027 (12+ MONTHS).

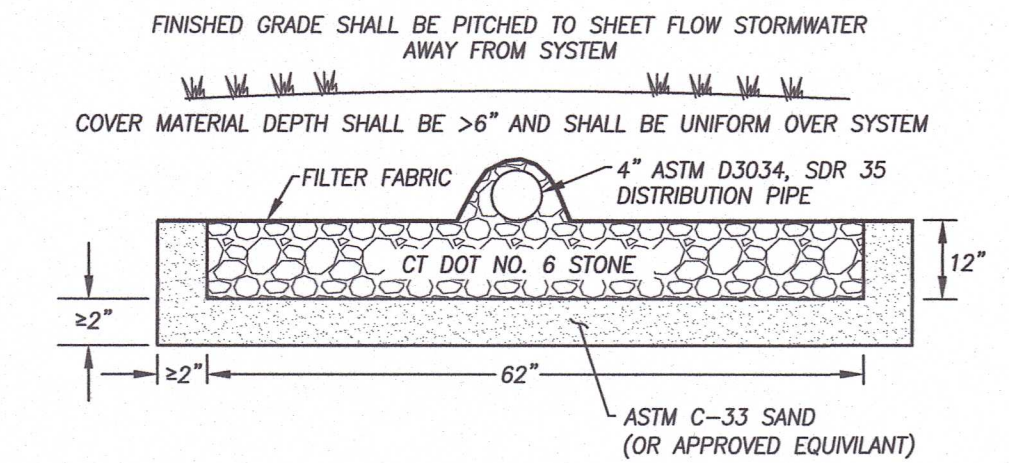
"TO MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON."

\\192.168.2.5\PROJECTS\CIVIL 3D PROJECTS\2024\24-3511 CT CABINET MILLWORK\DWG\DESIGN\DOWNATH SITE PLAN.DWG

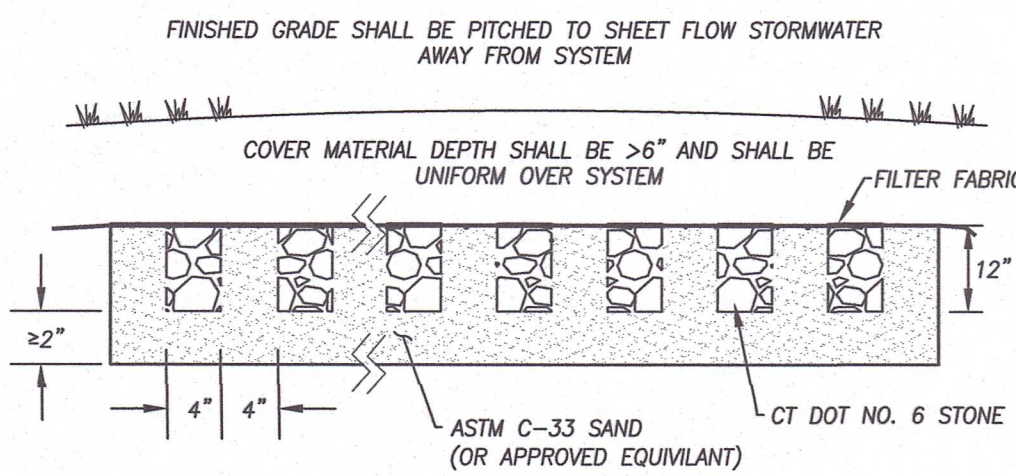


LEACHING SYSTEM CROSS SECTION A-A

SCALE: 1"= 5'



CROSS SECTION

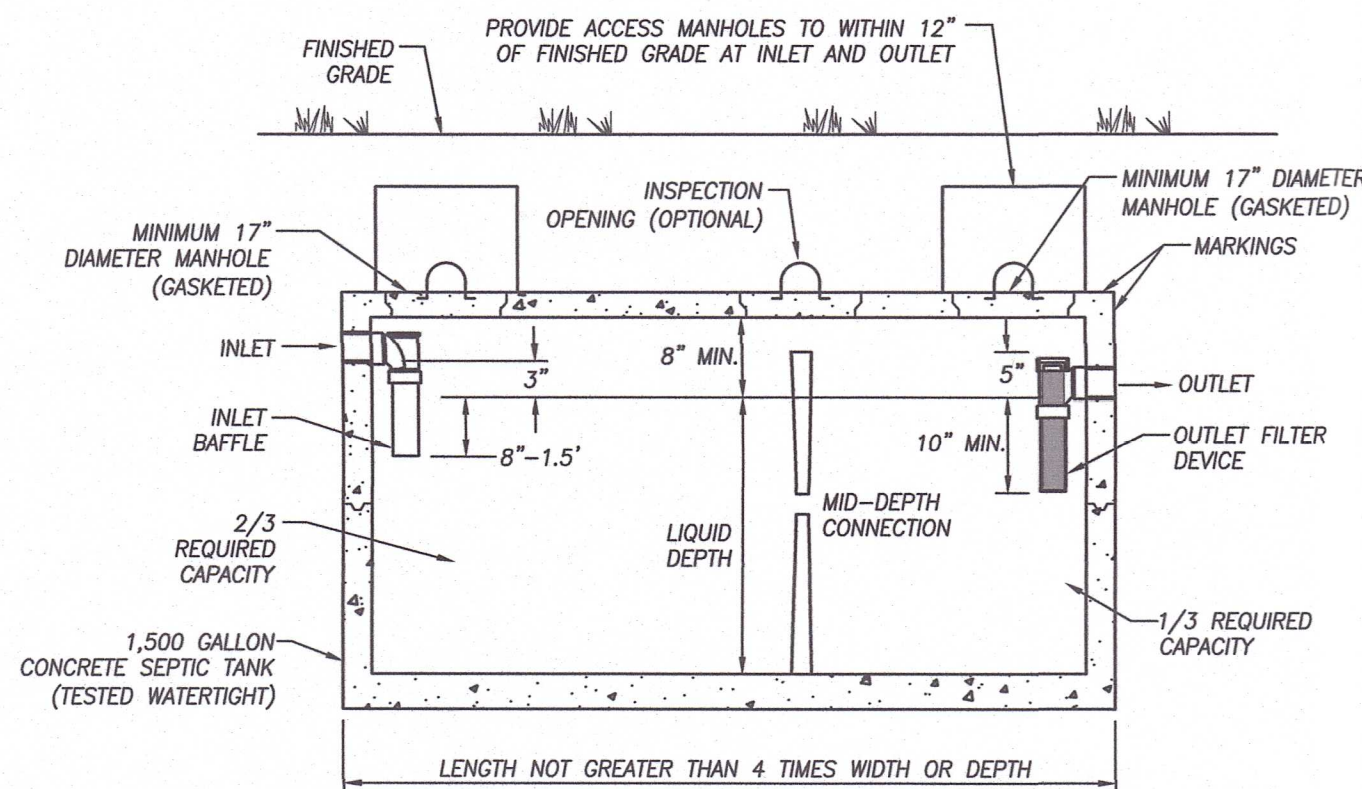


PROFILE

NOTE: INSTALLATION TO BE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

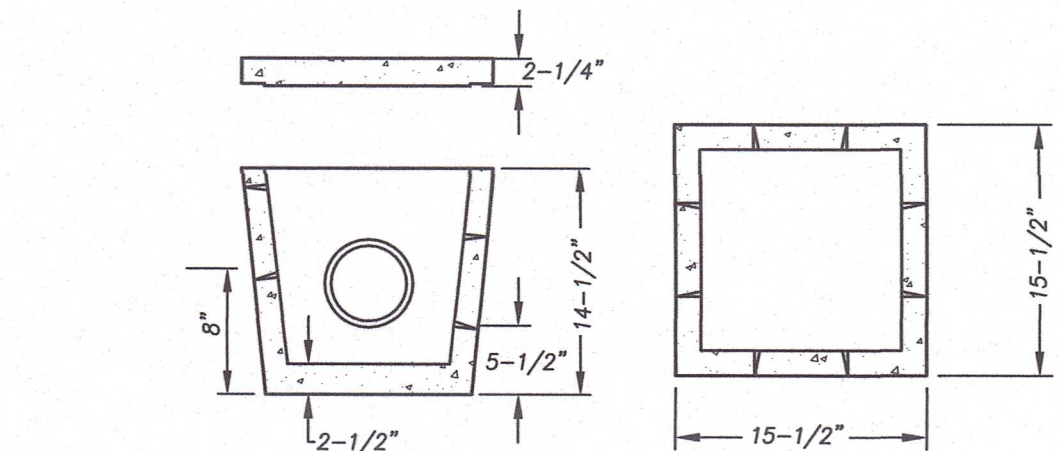
GEOMATRIX GST 6212 DETAIL

NOT TO SCALE



SEPTIC TANK DETAIL

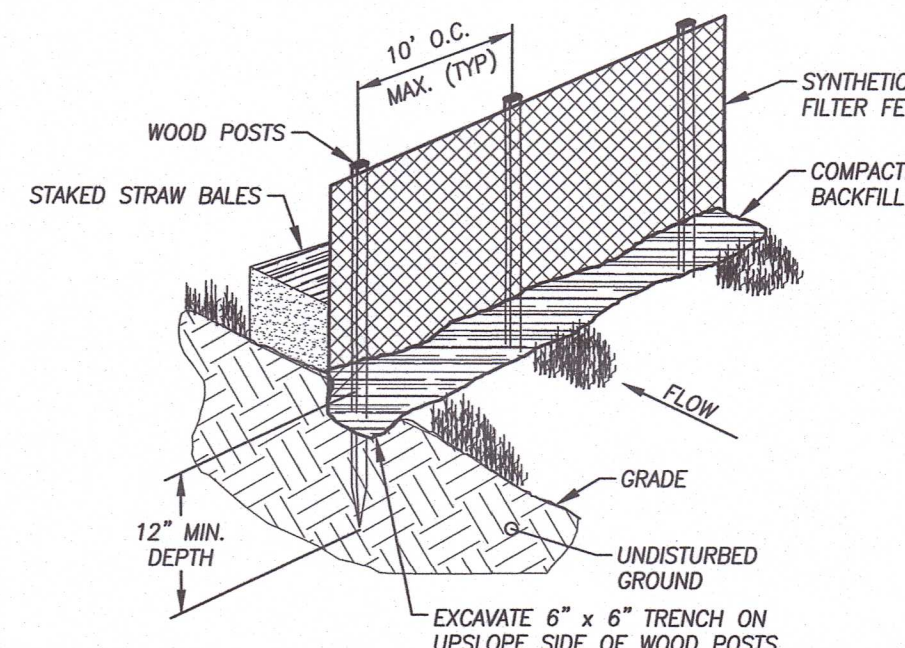
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NOTE: USE 4HDBOX BY JOLLEY PRECAST, INC. OR APPROVED EQUAL

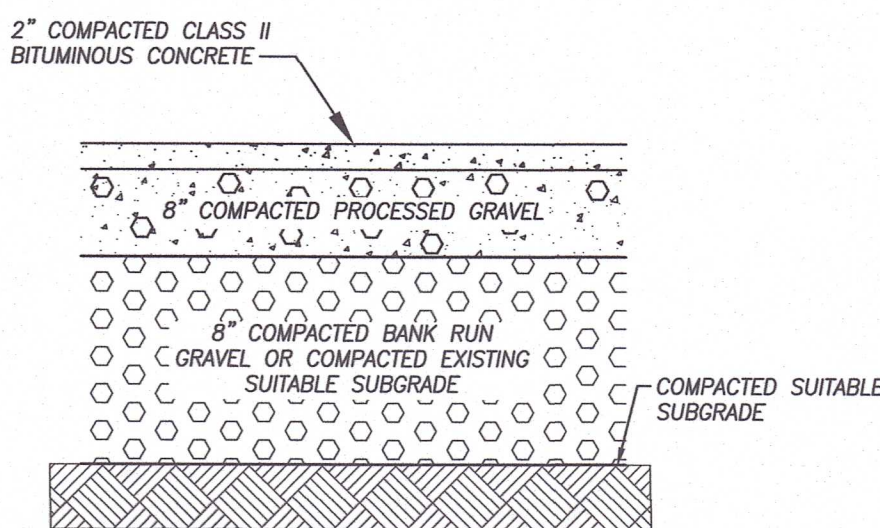
D-BOX DETAIL

NOT TO SCALE



SEDIMENT FENCE BACKED BY STAKED STRAW BALES DETAIL

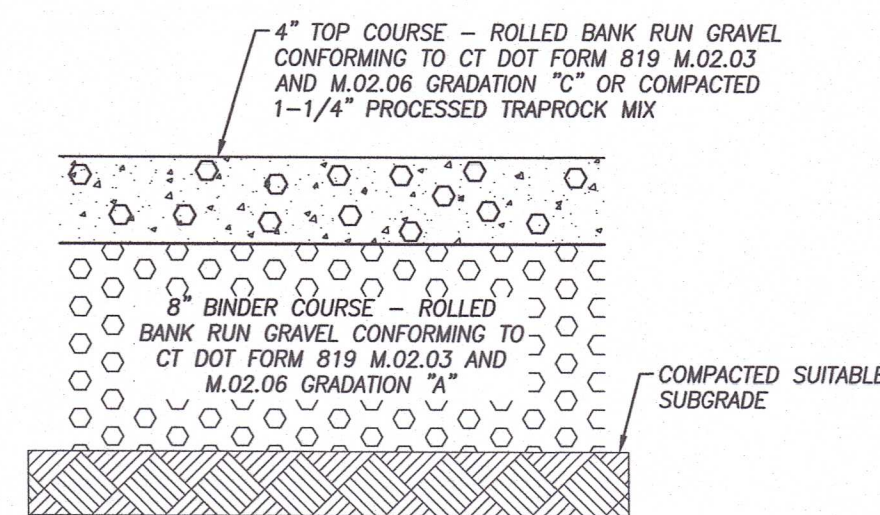
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NOTE: SUBGRADE AND BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY (TYP)

BITUMINOUS CONCRETE PAVEMENT

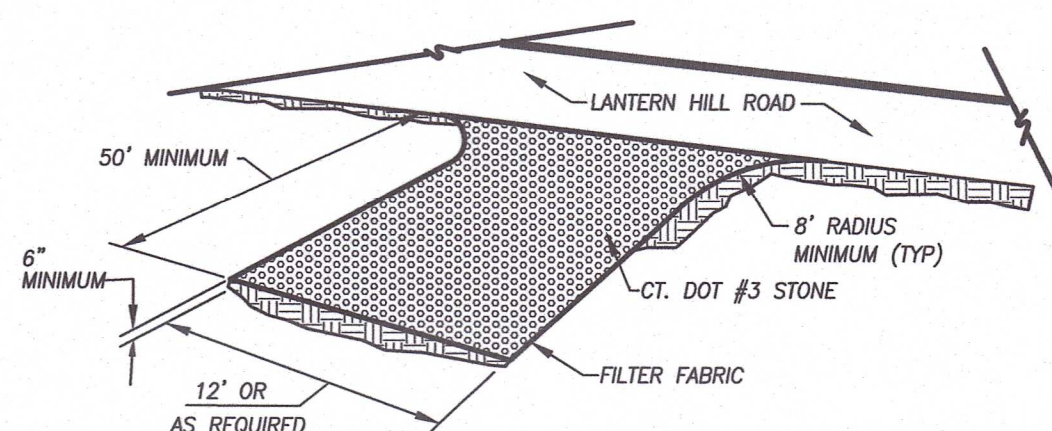
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NOTE: SUBGRADE AND BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY (TYP)

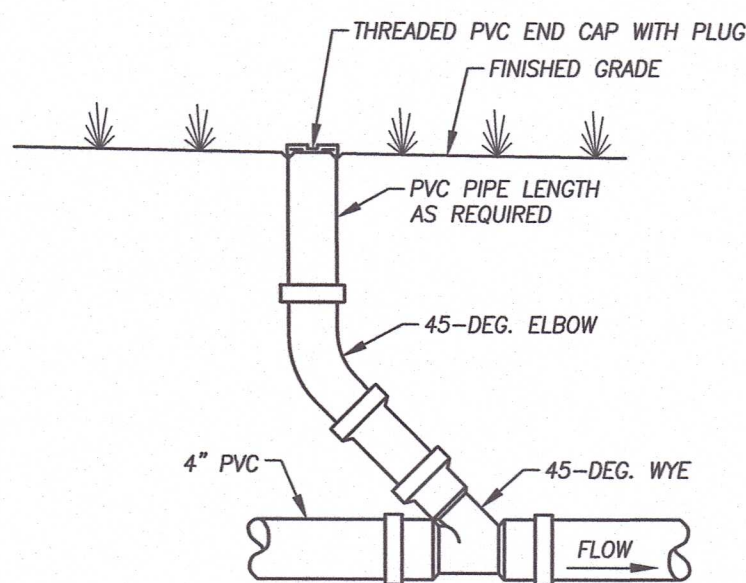
TRAFFIC BOUND GRAVEL SURFACE

NOT TO SCALE



ANTI-TRACKING PAD AT DRIVEWAY

NOT TO SCALE



TYPICAL PVC CLEANOUT DETAIL

NOT TO SCALE

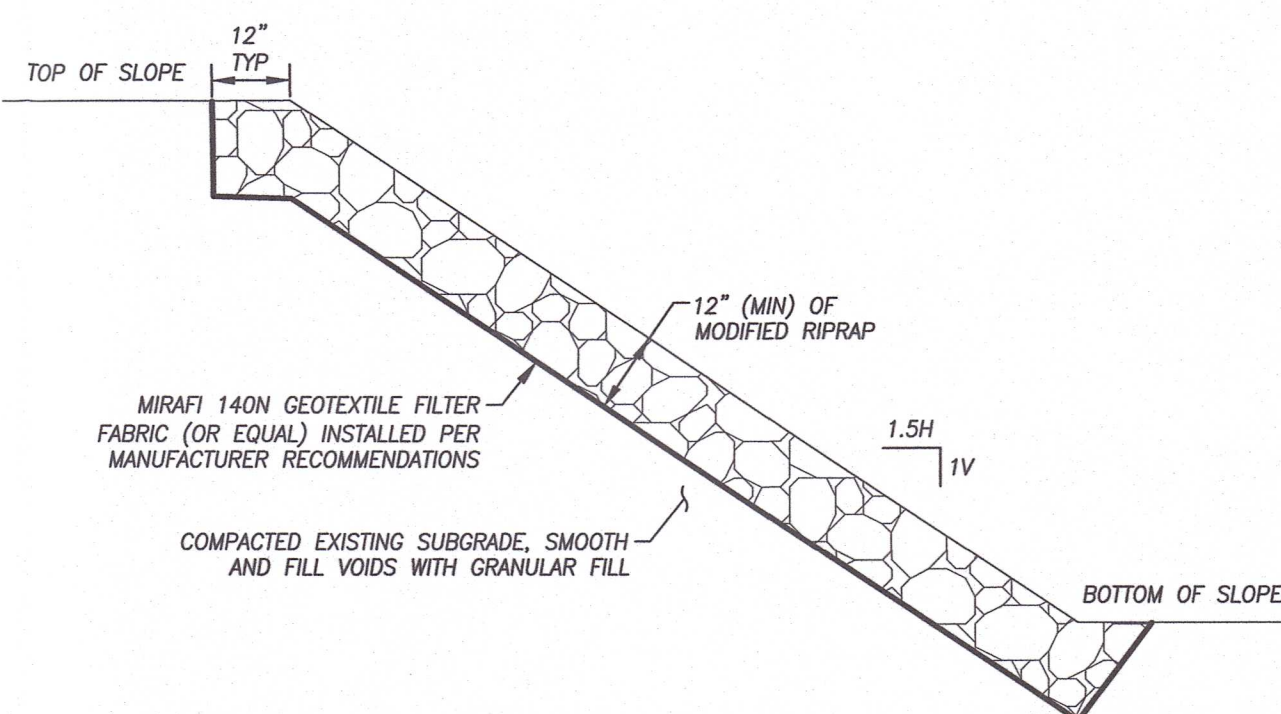
SANITARY NOTES

- THIS SEPTIC SYSTEM INSTALLATION INCLUDING ALL MATERIALS (PIPING, SEPTIC TANK, STONE, FILL, ETC.) USED FOR THIS SEPTIC SYSTEM SHALL CONFORM TO THE CURRENT EDITION/REVISION OF THE "TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS" REVISED JANUARY 2024 OF THE CONNECTICUT PUBLIC HEALTH CODE BY THE STATE OF CONNECTICUT DEPARTMENT OF PUBLIC HEALTH.
- THIS SEPTIC SYSTEM HAS NOT BEEN SIZED TO INCLUDE CAPACITY FOR A GARBAGE GRINDER AND/OR LARGE TUB. A GARBAGE GRINDER AND/OR LARGE TUB SHALL NOT BE USED IN THE RESIDENCE WITHOUT INCREASING THE SIZE OF THE SEPTIC TANK. IF A GARBAGE GRINDER OR LARGE TUB IS DESIRED THEN THE SEPTIC TANK SHALL BE INCREASED IN ACCORDANCE WITH SECTION V.6.4 OF THE TECHNICAL STANDARDS. WATER TREATMENT WASTEWATER (WATER SOFTENER) SHALL NOT BE DISCHARGED TO THIS SEPTIC SYSTEM.
- THE PROPOSED HOUSE SEWER FROM THE BUILDING TO THE SEPTIC TANK SHALL BE SCHEDULE 40 PVC ASTM D 1785/ASTM D 2685 OR APPROVED EQUAL AND INDICATED IN TABLE NO. 2 OF "TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS". ALL OTHER SEWER PIPE FOR THIS SEPTIC SYSTEM SHALL BE 4" PVC ASTM D3034, SDR 35 WITH RUBBER COMPRESSION GASKET OR BELL AND SPIGOT OR APPROVED EQUAL.
- THERE ARE NO WELLS (POTABLE, GEOTHERMAL, OR IRRIGATION) WITHIN 75' OF THE PROPOSED SEPTIC SYSTEM. THERE ARE NO SEPTIC SYSTEMS WITHIN 75' OF THE PROPOSED WELL. THERE SHALL BE NO STUMPS OR BOULDER BURIED WITHIN 50' DOWN GRADIENT OF THE SEPTIC SYSTEM. SHOULD ANY SIGNIFICANT VARIATIONS FROM THE TEST HOLE DATA BE ENCOUNTERED DURING EXCAVATIONS (LEDGE, GROUNDWATER, MOTTILING, SOIL TYPE, ETC.), THE DESIGN ENGINEER SHALL BE NOTIFIED PRIOR TO INSTALLATION OF THE SEPTIC SYSTEM.
- ALL EXISTING UTILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS AND ELEVATIONS PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL CONTACT "CALL-BEFORE-YOU-DIG" AT 1-800-922-4455 AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION.
- SELECT FILL FOR THIS SEPTIC SYSTEM SHALL MEET THE FOLLOWING SPECIFICATIONS:
 - 100% OF FILL SHALL PASS THROUGH A 3" SIEVE.
 - MAXIMUM % OF GRAVEL (BETWEEN #4 & 3" SIEVE) = 45%.
 - GRADATION OF FILL WITHOUT THE GRAVEL SHALL MEET THE FOLLOWING CRITERIA:

SIEVE SIZE	% PASSING (WET)	% PASSING (DRY)
#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 WET 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%.
 - PERCOLATION RATE AFTER PLACEMENT AND COMPACTION SHALL BE FASTER THAN OR EQUAL TO 10.0 MINUTES/INCH. A WET OR DRY SIEVE ANALYSIS MAY BE REQUIRED PRIOR TO FILL PLACEMENT TO VERIFY THAT IT MEETS THESE SPECIFICATIONS. THE FILL SHALL BE APPROVED BY THE LOCAL HEALTH DEPARTMENT OR DESIGN ENGINEER PRIOR TO ITS PLACEMENT ON SITE.
- APPROVED STONE AGGREGATE SHALL MEET THE SYSTEM MANUFACTURER'S SPECIFICATIONS.
- NO DEVIATION FROM THE APPROVED DESIGN PLAN SHALL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM LOCAL HEALTH DEPARTMENT AND THE DESIGN ENGINEER.
- THE SEPTIC TANK SHALL BE PRECAST CONCRETE UNLESS OTHERWISE AUTHORIZED BY THE DESIGN ENGINEER. THE SEPTIC TANK SHALL BE WATERTIGHT AS VERIFIED BY THE LOCAL HEALTH DEPARTMENT/DISTRICT (VACUUM TEST OR WATER PRESSURE TEST) IN ACCORDANCE WITH SECTION V.6.6 OF THE TECHNICAL STANDARDS. IF RISER ASSEMBLIES ARE UTILIZED OVER CLEANOUT OPENINGS, THE COVERS SHALL BE LEFT ON THE TANK. RISER COVERS SHALL WEIGH AT LEAST 59 LBS.
- SITE PREPARATION PROCEDURE FOR THE INSTALLATION OF THE PROPOSED SEPTIC SYSTEM (AN AUTHORIZED REPRESENTATIVE OF GEOMATRIX SYSTEMS, LLC MUST BE PRESENT UNLESS THE CONTRACTOR IS CERTIFIED BY GEOMATRIX SYSTEMS):
 - SYSTEM TO BE FIELD STAKED BY A LICENSED LAND SURVEYOR.
 - PREPARE SITE AND REMOVE ANY TREES WITH A DRIP LINE WITHIN 10 FEET OF THE LEACHING SYSTEM.
 - STRIP ALL TOPSOIL, VEGETATION AND ORGANIC MATERIAL IN THE AREA OF AND 5' SURROUNDING THE PRIMARY LEACHING TRENCH EXTENDING TO THE LIMITS SHOWN ON CROSS SECTION A-A.
 - PLACE AND COMPACT SELECT FILL MATERIAL MEETING SPECIFICATIONS INDICATED ABOVE (NOTE #6) IN LIFTS OF NOT GREATER THAN 12" IN THE AREA OF THE PROPOSED LEACHING MEDIA UP TO AT LEAST THE ELEVATION OF THE TOP OF THE LEACHING MEDIA. SELECT FILL SHALL BE PLACED 5' FROM THE DOWNGRADIENT EDGE OF THE SYSTEM, 2' FROM THE UPGRADIENT EDGE OF THE SYSTEM, 2' FROM THE SIDES OF THE SYSTEM, AND SLOPE TO THE EXISTING SUBSOIL AT 2H:1V (MAX) OUTSIDE OF THAT LIMIT.
 - PERFORM AT LEAST 1 PERCOLATION TEST ON PLACED FILL. FILL MUST HAVE A PERCOLATION RATE EQUAL TO OR FASTER THAN THAT AS INDICATED IN NOTE #6.E. IF PERCOLATION RATE IS SLOWER THAN THAT RATE, ALL FILL SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE FILL MEETING PROPER SPECIFICATIONS.
 - EXCAVATE TRENCH TO A DEPTH OF 2" BELOW THE BOTTOM OF THE GST FORM. TRENCH WIDTH SHOULD BE A MINIMUM OF 70". RAKE/SCARIFY SIDEWALLS AND BOTTOM OF TRENCH TO ADDRESS AND SMEARING OF FINES, AND PROTECT TRENCH FROM COMPACTION.
 - PLACE A MINIMUM OF 2" ASTM C-33 SAND OR APPROVED EQUIVALENT (SAND) IN THE BOTTOM OF THE EXCAVATION TO SERVE AS A BASE FOR THE GST FORM. RAKE, LEVEL, AND UNIFORMLY COMPACT IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
 - SET THE GST FORMS IN THE CENTER OF THE TRENCH.
 - PLACE COVERS OVER ENTIRE CENTER STONE CHANNEL AND ALTERNATING STONE FINGER COMPARTMENTS.
 - PLACE SAND INTO VOID SPACE BETWEEN TRENCH SIDEWALL AND GST FORM. FILL SAND FINGER COMPARTMENTS IN THE FORMS AND UNIFORMLY COMPACT.
 - REMOVE COVERS FROM THE CENTER STONE CHANNEL AND STONE FINGER COMPARTMENTS AND PLACE CLEAN DOT #6 (3/4") CRUSHED STONE INTO THE GST FORMS.
 - INSURE THAT SAND AND BACKFILL MATERIALS ARE COMPACTED TO PREVENT SETTLEMENT.
 - INSTALL APPROVED DISTRIBUTION PIPING ON TOP OF THE 12" CENTRAL STONE CHANNEL.
 - PLACE STONE AROUND THE DISTRIBUTION PIPE AND COVER SYSTEM WITH APPROVED FILTER FABRIC.
 - BACKFILL SYSTEM AND INSURE UNIFORM COVER (MINIMUM 6") AND COMPACTION OVER SYSTEM.
 - PROVIDE A MINIMUM OF 6" OF LOAM IN LAWN AREAS. GRADE TO PREVENT PONDING AND SEED WITH GRASS TO STABILIZE. THE FINISHED GRADE 10' FROM ANY PART OF THE PROPOSED LEACHING TRENCHES SHALL BE AT LEAST THE SAME ELEVATION AS THE TOP OF THE RESPECTIVE LEACHING TRENCH.
 - CLEANOUT MANHOLES AT THE INLET BAFFLE AND AT THE OUTLET FILTER OF THE SEPTIC TANK OR ASSOCIATED RISERS AT THESE LOCATIONS IF REQUIRED SHALL BE LOCATED AT FINAL GRADE.
 - BENCHMARK TO BE LOCATED IN THE AREA OF DEVELOPMENT PRIOR TO THE START OF CONSTRUCTION.
 - PRIOR TO CONSTRUCTION, THE HOUSE, WELL AND SEPTIC SYSTEM SHALL BE STAKED OUT BY A LICENSED LAND SURVEYOR.
 - INSTALLER TO SUBMIT SCALED AND/or TIED AS-BUILT TO THE HEALTH DEPARTMENT WITHIN 30 DAYS OF COMPLETION WITH DISTANCES TO FLOW LINE AT HOUSE, INLET AND OUTLET COVERS OF TANK, D-BOXES, CLEANOUTS AND END OF LEACHING ROWS, WELL, FOOTING/CURTAIN DRAIN AND BETWEEN TIE POINTS. IN ADDITION, PROVIDE THE NAME OF INSTALLER, DATE, HOUSE LOCATION AND STREET/DIRECTIONAL ARROW.

CONSTRUCTION SEQUENCE

- SECURE ALL NECESSARY LOCAL, STATE AND FEDERAL PERMITS.
- ROUGH GRADE DRIVEWAY ENTRANCE AND INSTALL ANTI-TRACKING PAD. INSTALL SEDIMENT FENCE BACKED BY STAKED STRAW BALES IN SPECIFIED LOCATION AS SHOWN DOWNGRADIENT OF PROPOSED DEVELOPMENT AREA.
- CLEAR AND GRUB DEVELOPMENT AREA AND DISPOSE OF VEGETATION OFF-SITE AT AN APPROVED LOCATION.
- STRIP TOPSOIL FROM DEVELOPMENT AREA AND STOCKPILE AT AN APPROVED LOCATION FOR LATER REUSE. SURROUND STOCKPILE WITH SEDIMENT FENCE INSTALLED PER DETAIL AND SEED TOPSOIL STOCKPILE WITH RYEGRASS FOR TEMPORARY STABILIZATION.
- ROUGH GRADE SITE, CONSTRUCT DRIVEWAY.
- CONSTRUCT HOUSE, INSTALL SUBSURFACE SEWAGE DISPOSAL SYSTEM, WELL, UTILITIES, AND PERFORM FINAL SITE GRADING.
- AT COMPLETION OF CONSTRUCTION, LOAM ALL DISTURBED AREAS (4" MINIMUM), SEED WITH GRASS AND MULCH. AFTER ALL AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE EROSION CONTROL MEASURES.



MODIFIED RIP RAP SLOPE STABILIZATION DETAIL

NOT TO SCALE

OPERATION & MAINTENANCE OF EROSION CONTROLS

NO CONSTRUCTION SHALL PROCEED UNTIL PROPER SEDIMENTATION AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED AS THE SEQUENCE OF CONSTRUCTION NECESSITATES.

ALL TEMPORARY FILL, STORAGE OR STOCKPILE AREAS SHALL BE PROPERLY STABILIZED TO PREVENT EROSION AND SUITABLY CONTAINED TO PREVENT TURBID RUNOFF. ALL AREAS AFFECTED BY TEMPORARY FILLS SHALL BE RESTORED TO THEIR ORIGINAL CONTOURS AND REVEGETATED WITH SUITABLE VEGETATION. THE USE OF TEMPORARY FILL AND/OR EXCAVATION SHALL BE MINIMIZED TO ONLY THAT AREA REQUIRED TO PERFORM THE WORK.

DUMPING OF OIL OR OTHER DELETERIOUS MATERIALS ON THE GROUND IS FORBIDDEN. THE DEVELOPER OR CONTRACTOR SHALL PROVIDE A MEANS OF CATCHING, RETAINING AND PROPERLY DISPOSING OF DRAINED OIL, REMOVED OIL FILTERS, OR OTHER DELETERIOUS MATERIAL FROM EQUIPMENT USED ON SITE. MAJOR VEHICLE MAINTENANCE SHALL BE COMPLETED OFF SITE. ALL OIL SPILLS SHALL BE IMMEDIATELY REPORTED TO THE DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION/HAZARDOUS MATERIALS OFFICE. FAILURE TO DO SO MAY RESULT IN THE IMPOSITION OF FINES UNDER THE APPLICABLE CONNECTICUT GENERAL STATUTES.

EVERY PRECAUTION SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT AND MINIMIZE THE DEGRADATION OF THE EXISTING WATER QUALITY. ALL ACTIVITIES SHALL BE IN CONFORMANCE TO AND CONSISTENT WITH ALL APPLICABLE WATER QUALITY STANDARDS AND MANAGEMENT PRACTICES AS SET FORTH BY LOCAL, STATE AND FEDERAL AGENCIES.

DURING THE PERIOD OF CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL MEASURES. SAID MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINSTORM. ACCUMULATED DEPOSITS OF SEDIMENT AND SILT SHALL BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDE OF THE EROSION AND SEDIMENT CONTROL BARRIERS, AND UPON ESTABLISHMENT OF PERMANENT VEGETATIVE COVER, SUCH MATERIALS REMOVED SHALL BE SPREAD AND STABILIZED IN NON-WETLAND AREAS WHICH ARE NOT SUBJECT TO EROSION, OR WHICH ARE NOT TO BE PAVED OR BUILT UPON.

SEDIMENT FENCE, STAKED STRAW BALES AND OTHER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED, CLEANED AND/OR REPLACED AS NECESSARY THROUGHOUT THE CONSTRUCTION PERIOD IN ORDER TO MAINTAIN COMPLETE AND INTEGRAL EROSION AND SEDIMENT CONTROL PROTECTION. ONCE IN PLACE, ALL EROSION AND SEDIMENT CONTROL FACILITIES AND MEASURES ARE TO REMAIN IN PLACE AND IN PROPER CONDITION AND BE CONTINUOUSLY MAINTAINED UNTIL FINAL GRADING HAS BEEN COMPLETED. ALL DISTURBED AREAS UPGRADIENT OF SAID FACILITIES HAVE BEEN PERMANENTLY STABILIZED, AND ALL NEWLY GRASSED AREAS HAVE HAD AT LEAST TWO MOWINGS. FOLLOWING SUCH PERMANENT STABILIZATION, THE FACILITIES SHALL BE DISMANTLED, REMOVED, AND DISPOSED OF IN AN APPROVED MANNER. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES BEYOND THOSE SHOWN ON THE PLANS OR PRESCRIBED HEREIN SHALL BE PUT IN PLACE, WHENEVER NECESSARY, TO ADDRESS FIELD CONDITIONS AND/OR AS ORDERED BY THE TOWN STAFF OR THEIR DESIGNATED AGENT.

DISBURSMENT OF THE LAND SHALL BE LIMITED TO THE MINIMUM EXTENT NECESSARY TO COMPLETE THE PROPOSED DEVELOPMENT. ALL EXISTING TREES AND SHRUBS SHALL BE CONSERVED WHERE POSSIBLE, EXCEPT THOSE WHOSE REMOVAL IS REQUIRED TO PERFORM THE PROPOSED WORK. THE LIMITS OF DISTURBANCE SHALL BE ESTABLISHED IN THE FIELD PRIOR TO STARTING ANY ACTUAL CONSTRUCTION ACTIVITIES AND SHALL BE GENERALLY AS DEPICTED ON THIS PLAN.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING THE SITE IN ACCORDANCE WITH THE PROCEDURES AS OUTLINED IN THE "NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER FROM CONSTRUCTION ACTIVITIES" AS ADOPTED BY THE DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, EFFECTIVE ON JANUARY 1, 2026.

THE CONTRACTOR SHALL INSPECT ALL DISTURBED AREAS OF CONSTRUCTION ACTIVITY THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF ALL RAIN EVENTS, WHERE SITES HAVE BEEN TEMPORARILY OR FINALLY STABILIZED, SUCH INSPECTION SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH FOR THREE CONSECUTIVE MONTHS.

DURING CONSTRUCTION AND IMMEDIATELY FOLLOWING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE INSPECTION AND MAINTENANCE TO INSURE PROPER PERFORMANCE OF THE SEDIMENTATION AND EROSION CONTROL SYSTEM. INSPECTING AND MAINTAINING SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:

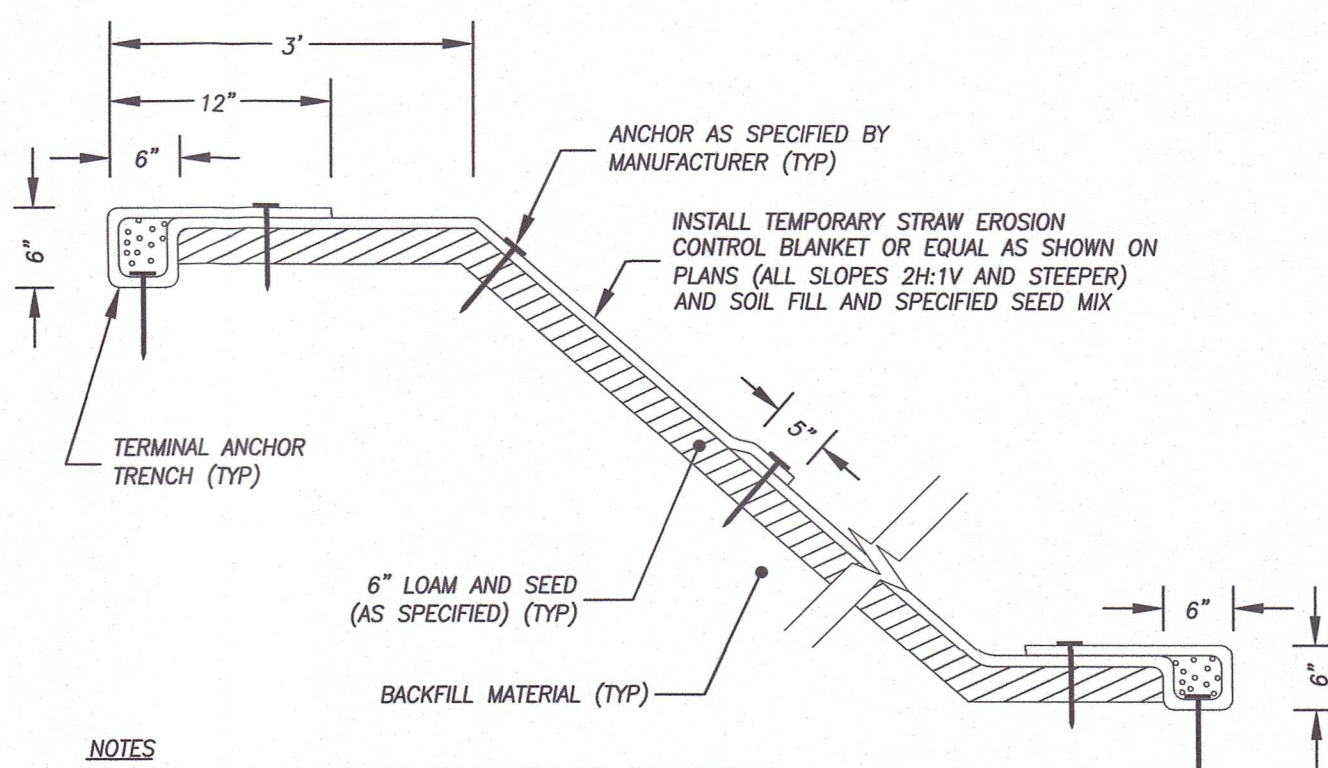
- * INSPECTION OF ALL SEDIMENT FENCE AND STAKED STRAW BALES, REMOVE ACCUMULATED SEDIMENT IF REQUIRED (GREATER THAN 4" DEPTH)
- * INSPECTION OF ANTI-TRACKING PAD, REMOVE, DISPOSE AND REPLACE IF PAD IS NO LONGER FUNCTIONAL. IN THE CATCHMENT OF SEDIMENTS FROM VEHICULAR/TRUCK TRAFFIC.
- * INSPECTION OF ALL DRIVEWAY AND PARKING AREAS AFTER PAVING, REMOVE ACCUMULATED SEDIMENT AND ANY LITTER/DEBRIS.

DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE INSPECTED TO INSURE THAT THEY ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS OR POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO DOWNSTREAM WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. STREET SWEEPING SHALL BE COMPLETED AS NECESSARY.

EROSION CONTROL NOTES

- ALL UTILITIES ARE APPROXIMATE. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION. CONTACT "CALL-BEFORE-YOU-DIG" AT 1-800-922-4455 AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION.
- THE RESPONSIBLE PARTY FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES IS THE SITE CONTRACTOR.
- THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE COUNCIL ON SOIL AND WATER CONSERVATION IN COLLABORATION WITH THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION PUBLICATION DATE: SEPTEMBER 30, 2023, SHALL BE USED FOR INSTALLING AND MAINTAINING ALL EROSION CONTROL MEASURES. THE PROPERTY OWNER SHALL INSTALL ADDITIONAL MEASURES AS NECESSARY IF DIRECTED BY THE ENGINEER OR TOWN STAFF.
- SEEDING FOR PERMANENT STABILIZATION SHALL BE COMPLETED BETWEEN APRIL 15 THROUGH JUNE 15 OR BETWEEN AUGUST 15 THROUGH SEPTEMBER 15. IF SEEDING CANNOT BE COMPLETED WITHIN THESE TIMES, APPLICATION OF TEMPORARY MULCH WILL BE CONDUCTED UNTIL THE NEXT SEEDING PERIOD. SEED MIXTURE SHALL BE AS FOLLOWS:

	20 LBS/ACRE	OR	0.45 LBS/1,000 S.F.
KENTUCKY BLUEGRASS			
CREEPING RED FESCUE			
PERENNIAL RYEGRASS	5 LBS/ACRE	OR	0.10 LBS/1,000 S.F.
- MULCH SHALL BE A GOOD QUALITY HAY OR STRAW AND SHALL BE APPLIED AT A RATE OF APPROXIMATELY 2-3 BALES/1,000 SF.
- ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WITHIN 24 HOURS AFTER RAIN EVENTS AND REPAIRED OR REPLACED AS NECESSARY TO INSURE COMPLIANCE WITH THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN.



NOTES

- INSTALL AND ANCHOR PER MANUFACTURER'S SPECIFICATIONS.
- EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER.

EROSION CONTROL BLANKET DETAIL

NOT TO SCALE