

THE PROPOSED GRADING AND UTILITY ELEVATIONS DEPICTED AND NOTED HEREON ARE BASED ON THE REFERENCED MAP (CERTIFIED ACCURACY A-2 & T-2). IF DISCREPANCIES WITH REGARD TO EXISTING ELEVATIONS OR LOCATIONS (TOPOGRAPHY) ARE FOUND DURING CONSTRUCTION, THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED SO ADJUSTMENTS TO THE DESIGN CAN BE MADE.

THE PROPOSED TOP OF FOUNDATION (TOP FDN.), BASEMENT FLOOR (BSMT. FLR.), GARAGE FLOOR (GAR. FLR.) AND GRADING SHOWN ON THIS PLAN SHALL BE REVIEWED IN THE FIELD BY THE OWNER, BUILDER AND ARCHITECT PRIOR TO CONSTRUCTION TO INSURE CONFORMANCE TO THE ARCHITECTURAL PLANS AND CONCEPTS. ANY ADJUSTMENTS TO THE PROPOSED ELEVATIONS OR GRADING SHALL BE REVIEWED WITH THE ENGINEER AND THE HEALTH DEPARTMENT TO INSURE PROPER FUNCTION OF THE SEPTIC SYSTEM AND DRAINAGE.

PRIOR TO ANY EXCAVATION OR GRADING ON THE SITE, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES BY CONTACTING THE CONNECTICUT UNDERGROUND UTILITY PROTECTION PLAN FOR UTILITY MARK-OUT (TEL.1-800-922-4455)

PRIOR TO THE START OF CONSTRUCTION, STRIPPING OR GRADING, SEDIMENT BARRIERS SHOWN ON THIS PLAN SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS AND DETAILS OUTLINED IN THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION. THE BARRIERS SHALL REMAIN IN PLACE AND BE PROPERLY MAINTAINED UNTIL ALL UPSTREAM AREAS ARE

AT THE REQUEST OF THE ENVIRONMENTAL PLANNER, ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO ADDRESS FIELD CONDITIONS.

STABILIZED TO THE SATISFACTION OF THE ENVIRONMENTAL PLANNER.

ALL DISTURBED AREAS WHICH ARE TO BE STABILIZED WITH VEGETATIVE COVER SHALL BE TOPSOILED, FERTILIZED, SEEDED AND MULCHED IN ACCORDANCE WITH THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION.

ALL UNDERGROUND UTILITY (ELECTRIC, TELEPHONE, CATV, ETC.) INSTALLATION SHALL PROVIDE FOR EFFECTIVE EROSION AND SEDIMENTATION CONTROL TO THEIR POINT OF CONNECTION.

INSPECTION BY THE TOWN STAFF IS REQUIRED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY. THIS INSPECTION EVALUATES COMPLIANCE TO THE APPROVED PLOT PLAN AND THE PERMANENT STABILIZATION REQUIREMENT. THE BUILDER SHALL NOTIFY THE TOWN UPON COMPLETION OF PERMANENT STABILIZATION.

A CERTIFICATE OF OCCUPANCY SHALL NOT BE ISSUED PRIOR TO ADEQUATE SITE STABILIZATION AS DETERMINED BY TOWN STAFF.

ALL DRIVEWAY SHOULDERS SHOULD BE STABILIZED IMMEDIATELY UPON COMPLETION OF ROUGH GRADING. THE DRIVEWAY ROADBED SHOULD BE STABILIZED WITH COMPACTED GRAVEL OR AGGREGATE AS SOON AS POSSIBLE.

TOPSOIL AND/OR EXCAVATED SUBSOIL SHOULD BE STOCKPILED WITHIN THE AREA OF DISTURBANCE IF NOT USED FOR ON SITE REGRADING. EACH STOCKPILE SHALL BE RINGED WITH SEDIMENT BARRIERS AND STABILIZED AS DIRECTED BY THE ENVIRONMENTAL PLANNER.

LUMBER AND BUILDING MATERIAL STOCKPILES, VEHICLE PARKING AND MOVEMENT SHALL BE CONFINED TO THE AREA OF DISTURBANCE. THE BUILDER SHALL PROVIDE A DUMPSTER FOR STORAGE AND/OR DISPOSAL OF ALL CONSTRUCTION WASTE.

THE CONTRACTOR SHALL VERIFY THE FOUNDATION DIMENSIONS AND IMMEDIATELY RESOLVE ANY CONFLICTS WITH THE ENGINEER.

SEPTIC SYSTEM NOTES:

THE LOCATION AND ELEVATION OF THE LEACHING TRENCHES SHALL NOT BE ADJUSTED WITHOUT FIRST CONSULTING THE HEALTH DEPARTMENT AND THE ENGINEER.

THE SEPTIC SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE STATE OF CONNECTICUT PUBLIC HEALTH

A LICENSED SEPTIC INSTALLER MUST OBTAIN A "PERMIT TO CONSTRUCT" FROM THE LOCAL HEALTH

DEPARTMENT BEFORE BEGINNING CONSTRUCTION OF THE SEPTIC SYSTEM.

B. LEACHING SYSTEM STRIP INSPECTION.

THE LEACHING AREA SHALL BE STAKED FOR CONSTRUCTION BY A LICENSED LAND SURVEYOR A BENCH MARK SHALL BE PROVIDED NEAR THE SEPTIC SYSTEM FOR HEALTH DEPARTMENT AND INSTALLER USE.

THE CONTRACTOR SHALL COORDINATE INSPECTIONS WITH THE LOCAL HEALTH DEPARTMENT A 24 HOUR MINIMUM NOTICE FOR INSPECTIONS. THE FOLLOWING INSPECTIONS ARE REQUIRED: A. SYSTEM & WELL STAKING, BENCH MARK.

AN "AS-BUILT" SURVEY OF THE COMPLETED SEPTIC SYSTEM PREPARED BY A LICENSED LAND SURVEYOR (A-2 & V-2 ACCURACY STANDARDS) WITH "TIES" TO THE EXISTING STRUCTURE TO FACILITATE RECOVERY SHALL BE PROVIDED TO THE HEALTH DEPARTMENT AND OWNER FOLLOWING COMPLETION OF THE SEPTIC SYSTEM. THE SURVEYOR SHALL BE CONTACTED TO CONDUCT THE SURVEY PRIOR TO BACKFILLING THE

C. FINAL SYSTEM AND AS DIRECTED OR REQUIRED BY THE HEALTH DEPARTMENT.

IF SEPTIC TANK RISERS ARE INSTALLED, THE ORIGINAL SEPTIC TANK COVERS SHALL REMAIN IN PLACE. AT GRADE RISER COVERS SHALL WEIGH 59 POUNDS, MINIMUM AND/OR BE PROVIDED WITH AN ALTERNATE SAFETY DEVICE TO PREVENT INDIVIDUALS FORM FALLING INTO THE SEPTIC TANK. BELOW GRADE COVERS SHALL CONTAIN ENOUGH METAL TO BE DETECTED BY A METAL DETECTOR.

PIPING FROM THE FOUNDATION WALL TO THE SEPTIC TANK SHALL BE 4" MINIMUM IN DIAMETER AND COMPLY WITH TABLE NO. 2 OF THE CONNECTICUT PUBLIC HEALTH CODE TECHNICAL STANDARDS. THE PIPE SHALL BE INSTALLED AT A MINIMUM PITCH OF 1/4 IN/FT.

PIPING FROM THE SEPTIC TANK TO THE DISTRIBUTION BOX, BETWEEN DISTRIBUTION BOXES AND PERFORATED DISTRIBUTION PIPE SHALL BE 4" IN DIAMETER AND COMPLY WITH TABLE NO. 5 OF THE CONNECTICUT PUBLIC HEALTH CODE TECHNICAL STANDARDS.

ALL CHANGES IN PIPE DIRECTION OR GRADE SHALL BE MADE WITH PROPER FITTINGS.

THE SEPTIC TANK INSPECTION OPENINGS SHALL BE PROVIDED WITH RISERS IF GREATER THAN 12" BELOW GRADE.

THE LEACHING AREA SHALL BE "ROPED OFF" OR OTHERWISE PROTECTED FROM DISTURBANCE AND TRAFFIC UNTIL CONSTRUCTION OF THE LEACHING AREA IS STARTED.

IT IS THE RESPONSIBILITY OF THE SEPTIC INSTALLER TO PROVIDE AND INSTALL SELECT FILL MATERIAL IN CONFORMANCE WITH THE FOLLOWING:

THE SEPTIC INSTALLER SHALL PROVIDE A SIEVE ANALYSIS TO THE LOCAL HEALTH DEPARTMENT OR ENGINEER Form #2

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

TOPSOIL AND ORGANIC MATTER WITHIN THE LEACHING AREA SHALL BE STRIPPED PRIOR TO PLACEMENT OF THE SELECT FILL MATERIAL, EXCAVATION EQUIPMENT IS NOT PERMITTED IN THE LEACHING AREA UNTIL THE SELECT FILL MATERIAL HAS BEEN PLACED AND COMPACTED.

THE SELECT FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12 INCHES IN DEPTH AND SHALL BE TEST PIT : 3 COMPACTED TO 90% OF OPTIMUM DENSITY.

AT THE DIRECTION OF THE LOCAL HEALTH DEPARTMENT OR ENGINEER, A PERCOLATION TEST MAY BE REQUIRED IN THE COMPACTED SELECT FILL MATERIAL TO CONFIRM PROPER PLACEMENT.

THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THREE (3) INCH SIEVE. 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). THE MATERIAL THAT PASSES THE #4 SIEVE IS THAN REWEIGHED AND THE SIEVE ANALYSIS STARTED. THE REMAINING SAMPLE SHALL MEET THE FOLLOWING CRITERIA:

| SIEVE SIZE | PERCENT PASSING | | | |
|--------------|-----------------|-----------|--|--|
| DILVE SIZE | WET SIEVE | DRY SIEVE | | |
| #4 | 100 | 100 | | |
| # 10 | 70 - 80 | 70 - 100 | | |
| #40 | 10 - 50* | 10 - 75 | | |
| # 100 | 0 - 20 | 0 - 5 | | |
| #200 | 0 - 5 | 0 - 2.5 | | |

*PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%.

SEPTIC SYSTEM DESIGN

THE SEPTIC SYSTEM DESIGN IS BASED ON A PERCOLATION RATE OF LESS THAN 10.1 MIN/IN AND A 4 BEDROOM HOUSE, THE REQUIRED EFFECTIVE LEACHING AREA IS 577.5 SQ.FT.

THE LEACHING SYSTEM SHALL CONSIST OF ONE, 96 FT LONG ROW OF 18" LEACHING GALLERY, PROVIDING 595.2 SQ. FT. EFFECTIVE LEACHING AREA.

gravel

Mottles:

Ledge:

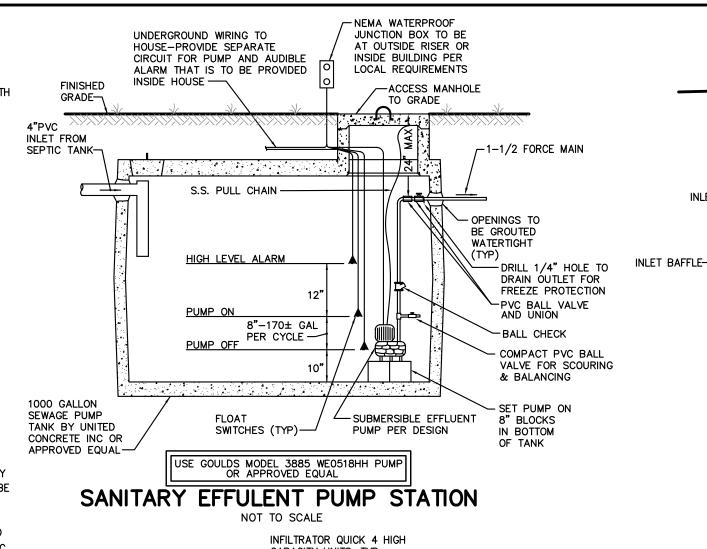
Roots: 5.0'

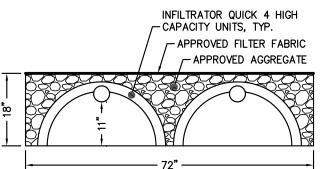
Restrictive:

ELEVATIONS OF THE LEACHING SYSTEM SHALL BE ADJUSTED IN THE FIELD SO THAT THE BOTTOM OF THE LEACHING SYSTEM IS NOT MORE THAN 4.5 FT BELOW EXISTING GRADE.

MLSS ANALYSIS:

MLSS NOT CONSIDERED DUE TO LACK OF A RESTRICTIVE LAYER





LEACHING SYSTEM SECTION

TEST PIT DATA

PROVIDE RISERS IF THE TOP OF

THE SEPTIC TANK IS DEEPER THAN 12"

INSPECTION OPENING

(OPTIONAL)

LENGTH NOT GREATER THAN 4 TIMES WIDTH OR DEPTH

CONCRETE SEPTIC TANKS SHALL CONFORM TO SECTION V. "SEPTIC

SEWAGE DISPOSAL SYSTEMS", REVISED THROUGH JANUARY 1, 2018

4" PVC TO D-BOX "B" -

DISTRIBUTION BOX

NOT TO SCALE

REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE

TYPICAL SEPTIC TANK

NOT TO SCALE

∕--90. ETBOM

1/3 REQUIRED CAPACITY—/

└2/3 REQUIRED CAPACITY

TANKS" OF THE "CONNECTICUT PUBLIC HEALTH CODE,

GRADE

MID-DEPTH

CONNECTION

OUTLET FILTER

EXISTING GRADE -

Technical Standards for Subsurface Sewage Disposal Systems

SITE INVESTIGATION FOR A SUBSURFACE SEWAGE DISPOSAL SYSTEM

Application/Permit #:

23 1/4"

23 3/4"

479

1142

RATE: 6.4 min/inch

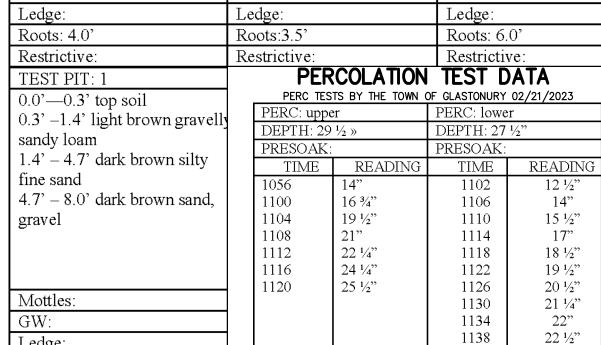
PERC

Property Owner ZK Builders _ _ Location 390 Ash Swamp Road

DEEP TEST PIT DATA/SOIL DESCRIPTIONS (Record all Test Pits)

TEST PIT: 2

| TEST PIT: 3 | 1ES1 PH: 5 | | TEST PIT: 2 | | 1ES1 PH: 4 | | |
|--------------------------------|------------------------------|--------------|-----------------------------------|---|------------|--|--|
| 0.0'—0.3' top soil | 0.0' - 0.3' top soil | | 0.0' - 0.2' top soil | | | 0.0' - 0.3' top soil | |
| 0.3' - 2.5' light brown fine | 0.3' – 2.8' light brown fine | | | 0.3' - 1.0' gravelly light | | $0.3^{\circ} - 2.0^{\circ}$ light brown fine | |
| sandy loam | sandy loam | | brown sa | andy loam | | sandy loam | |
| 2.5' - 5.0' brown fine sand, | 2.8' – 7.5' dar | k brown sand | $1.0^{\circ} - 5.1$ | $1.0^{\circ} - 5.0^{\circ}$ lenses of brown | | 2.0' – 3.0' coarse dark | |
| lenses of gravel | coarse sand | | fine sand | fine sand & gravelly coarse | | brown sand, gravel, | |
| 5.0' – 8.0' slightly compact | | | sand | sand | | cobbles, few boulders | |
| brown sand | | | $5.0^{\circ} - 8.1$ | 5.0' – 8.0' dark brown fine | | 3.0' – 5.0' compact dark | |
| | | | sand | | | brown sand, gravel | |
| | | | | | | 5.0' – 7.5' brown fine sand | |
| | | | | | | | |
| Mottles: | Mottles: | | Mottles: | | | Mottles: | |
| GW: | GW: | | GW: | | | GW: | |
| Ledge: | Ledge: | | Ledge: | | Ledge: | | |
| Roots: 4.0' | Roots:3.5' | | Roots: 6.0' | | | Roots: 4.5' | |
| Restrictive: | Restrictive: | | Restrictive: | | | Restrictive: | |
| TEST PIT: 1 | PER | COLATION | TEST [|)ATA | | | |
| 0.0'—0.3' top soil | DEPTH: 29 ½ » | | | | 1 | | |
| 0.3' -1.4' light brown gravell | | | PERC: lower DEPTH: 27 ½" PRESOAK: | | | | |
| sandy loam | | | | | | 485 — | |
| 1.4' – 4.7' dark brown silty | | | | | | | |
| fine sand | | | TIME 1102 | TIME READING 1102 12 ½" | | 484 | |
| 4.72 0.02 1.11 | 1 1030 | 14 | 1102 | 14/2 | 1 | | |



RATE: 3.2 min/inch

FORCE MAIN / CULVERT CROSSING NOTES: THE FORCE MAIN CROSSING OF THE 24" HDPE SHALL BE DONE AT A TIME OF DRY WEATHER. CONSTRUCTION DATES SHALL BE APPROVED BY THE DESIGN ENGINEER, ENVIRONMENTAL PLANNER, TOWN OF GLASTONBURY ENGINEERING AND HEALTH

DEPARTMENTS. APPLICABLE EROSION AND SEDIMENTATION CONTROL MEASURES AT

SECTION A-A

SCALE: 1"= 20' HORIZONTAL

1"=2' VERTICAL

DISTRIBUTION BOX

FL=514.5 (4" PVC)

18" LEACHING GALLERY

_BOTTOM =513.0

FL=513.92

SEE DETAIL

FL=514.75 (FORCE MAIN)

0

NO

MARK A. REYNOLDS, P.E. #19789

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REVISIONS:

DATE: 03/14/2024

SCALE: AS NOTED

SHEET 6 of 7

A-22-323-D

FILE: 22-323.DWG

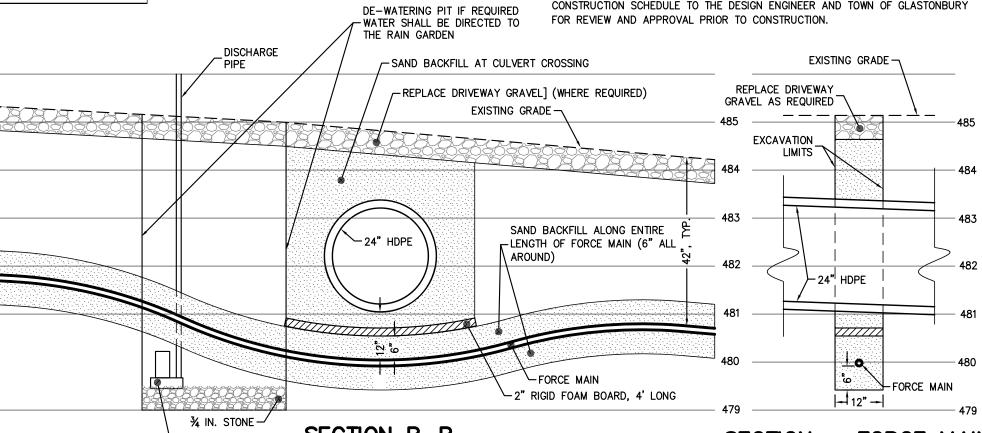
TEH RAIN GARDEN SHALL BE INSTALLED PRIOR TO CONSTRUCTION IF DE-WATERING IS REQUIRED, THE WATER SHALL BE DIRECTED TO THE RAIN

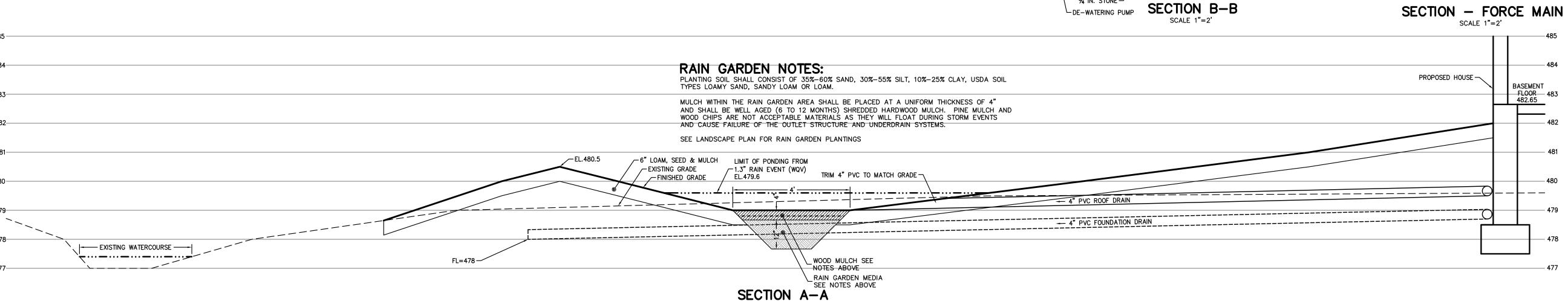
GARDEN. SEDIMENT BARRIERS AND OTHER EROSION & SEDIMENTATION J CONTROL MEASHRES SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE INSPECTED BY THE DESIGN ENGINEER AND ENVIRONMENTAL PLANNER PRIOR TO CONSTRUCTION.

ALL REQUIRED MATERIALS (PIPE, STONE, SAND, PUMP, ETC.) SHALL BE ON SITE PRIOR TO THE START OF CONSTRUCTION.

RAPID CONSTRUCTION OF THE CROSSING IS KEY TO MITIGATION OF EROSION AND SEDIMENTATION CONTROL ISSUES. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE TO THE DESIGN ENGINEER AND TOWN OF GLASTONBURY

FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.





SCALE 1"=2"

PERMANENT VEGETATIVE COVER:

THE PURPOSE OF PERMANENT VEGETATIVE COVER IS TO STABILIZE EXPOSED SOIL, REDUCE DAMAGE FROM WIND & WATER EROSION AND ENHANCE THE ENVIRONMENT.

TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL SOIL STOCKPILE AREAS WHICH WILL BE IN PLACE FOR MORE THAN 21 DAYS BETWEEN AUGUST 1 AND JUNE 15. PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED AS SOON AS POSSIBLE ON AREAS WHERE CONSTRUCTION HAS BEEN COMPLETED.

PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED BETWEEN THE PRIME SEEDING DATES OF APRIL 15 THROUGH JUNE 15 AND AUGUST 15 THROUGH SEPTEMBER 15.

IF TEMPORARY VEGETATIVE COVER CANNOT BE ESTABLISHED BETWEEN THE PRIME SEEDING DATES, THE AREA SHALL BE STABILIZED TO THE EXTENT POSSIBLE WITH TEMPORARY MULCH UNTIL THE NEXT PRIME SEEDING

REFER TO THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL INFORMATION.

1. APPLICABLE EROSION AND SEDIMENTATION CONTROLS (SEDIMENT BARRIERS, ETC.) SHALL BE INSTALLED PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.

2. REMOVE LOOSE ROCK AND LARGE STONES, DEBRIS, TRASH, STUMPS AND OTHER NOXIOUS MATERIALS.

3. UNLESS HYDROSEEDED, APPLY LIME PER SOIL TEST OR AT THE RATE OF 135 LB PER 1000 S.F.

4. UNLESS HYDROSEEDED, APPLY FERTILIZER PER SOIL TEST OR AT THE RATE OF 7.5 LB PER 1000 S.F. OF 10-10-10 FERTILIZER AND 7 LB PER 1000 S.F. OF 38-0-0 OF SLOW RELEASE NITROGEN FOR

5. UNLESS HYDROSEEDED, LIME AND FERTILIZER SHALL BE WORKED INTO SOIL TO A DEPTH OF 4". WHEN HYDROSEEDING, THE SOIL SHALL BE TILLED AS DESCRIBED BELOW. LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED.

6. TILLAGE SHALL RESULT IN A UNIFORM CONTOUR, FREE FROM DEPRESSIONS AND WATER POCKETS.

1. SELECT AN APPROPRIATE SEED MIXTURE FROM THE LIST BELOW. ALTERNATE SEED MIXES SHALL BE APPROVED BY THE ENVIRONMENTAL PLANNER. APPLY PROPER INOCULANT WHEN USING LEGUME SEED. 2. SEED SHALL BE APPLIED UNIFORMLY BY BROADCASTING, DRILLING OR HYDRAULIC APPLICATION.

3. UNLESS HYDROSEEDED OR "CULTIPACKER" TYPE SEEDER IS USED, COVER THE SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL. THE SEEDBED SHALL BE FIRMED FOLLOWING SEEDING WITH A ROLLER OR LIGHT

4. UNLESS HYDROSEEDED, APPLY MULCH AS REQUIRED IMMEDIATELY AFTER SEEDING.

5. SEEDING SHALL OCCUR BETWEEN APRIL 15 TO JUNE 15 AND / OR AUGUST 15 TO SEPTEMBER 15. 6. WHEN HYDROSEEDING, SEEDING RATES SHALL BE INCREASED BY 10 % (400% FOR LEGUMES).

FIBER MULCH SHALL BE USED WHEN HYDROSEEDING EXCEPT FOR CRITICAL AREAS WHICH SHALL BE MULCHED WITH STRAW MULCH.

RECOMMENDED SEED MIXES:

SHADY SITE: CREEPING RED FESCUE - 1.10 LB/1000 S.F. PERENNIAL RYEGRASS - 0.10 LB/1000 S.F.

SUNNY / PARTIALLY SUNNY SITE: KENTUCKY BLUEGRASS - 0.50 LB/1000 S.F. CREEPING RED FESCUE - 0.50 LB/1000 S.F.

CREEPING RED FESCUE - 1.00 LB/1000 S.F. TALL FESCUE - 0.50 LB/1000 S.F.

PERENNIAL RYEGRASS - 0.10 LB/1000 S.F.

MULCHING:

THE PURPOSE OF MULCHING IS TO PROTECT THE SOIL, CONTROL RUNOFF AND PROMOTE PLANT GROWTH. ALL AREAS WHICH HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDED SHALL BE MULCHED IMMEDIATELY FOLLOWING SEEDING.

MULCH SHALL BE USED ON ALL DISTURBED AREAS FOR PROTECTION FROM EROSION WHICH WILL BE EXPOSED FOR MORE THAN 21 DAYS AND CANNOT BE SEEDED WITHIN THE PRIME SEEDING DATES.

THE MATERIALS USED FOR MULCHING SHALL BE STRAW OR HAY FREE FROM COARSE MATTER AND WEEDS. WHEN HYDROSEEDING, MULCH SHALL BE APPLIED SIMULTANEOUSLY WITH THE SEED. MULCH MATERIAL AND APPLICATION RATE SHALL BE AS RECOMMENDED BY THE MANUFACTURER.

APPLICATION:

MULCH SHALL BE APPLIED UNIFORMLY BY HAND OR BLOWER AT A RATE OF 90 LB/1000 S.F. CRITICAL AREAS (SLOPES OVER 3 HORIZ. TO 1 VERT.) AND/OR AREAS IDENTIFIED ON THE PLAN SHALL BE

ANCHORING: 1. IF REQUIRED, MULCH SHALL BE ANCHORED IMMEDIATELY FOLLOWING APPLICATION.

2. STRAW AND HAY MULCH ON SLOPES IN EXCESS OF 5% SLOPE AND/OR AREAS AS DIRECTED BY THE ENVIRONMENTAL PLANNER SLOPE BE ANCHORED IN ACCORDANCE WITH CHAPTER 7 OF THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION.

TOPSOILING:

MATERIALS:

TOPSOIL SHALL BE FRIABLE AND LOAMY (LOAM, SANDY LOAM OR SILT LOAM) AND SHALL BE FREE OF DEBRIS, TRASH, STUMPS, ROCKS, ROOTS AND NOXIOUS WEEDS. IT SHALL GIVE EVIDENCE OF BEING ABLE TO SUPPORT HEALTHY VEGETATION AND CONTAIN NO SUBSTANCE THAT IS POTENTIALLY TOXIC TO PLANT GROWTH.

ALL TOPSOIL SHALL BE TESTED BY A RECOGNIZED LABORATORY AND SHALL MEET THE FOLLOWING REQUIREMENTS: ORGANIC MATTER: NOT LESS THAN 1.5% BY WEIGHT.

Ph RANGE: 6.0-7.5 (IF LESS THAN 6.0, LIME SHALL BE APPLIED AS REQUIRED). SOLUBLE SALTS: SHALL NOT EXCEED 500 ppm.

APPLICABLE EROSION AND SEDIMENTATION CONTROLS (SEDIMENT BARRIERS, ETC.) SHALL BE IN PLACE AND IN GOOD CONDITION PRIOR TO PLACING TOPSOIL.

TOPSOIL SHALL NOT BE APPLIED WHILE IN A FROZEN OR MUDDY CONDITION.

TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED TO A MINIMUM COMPACTED DEPTH OF 4", SURFACE IRREGULARITIES SHALL BE CORRECTED AT TIME OF PLACEMENT TO AVOID DEPRESSIONS AND WATER POCKETS. TOPSOIL SHALL BE COMPACTED ONLY ENOUGH TO ENSURE GOOD CONTACT WITH THE UNDERLYING SOIL AND TO OBTAIN A UNIFORM SEEDBED. OVER COMPACTING SHALL BE AVOIDED.

TRENCH DE-WATERING:

THE PURPOSE OF TRENCH DE-WATERING IS TO PERMIT THE INSTALLATION OF UNDERGROUND UTILITY STRUCTURES AND SERVICES IN A STABLE ENVIRONMENT. THE EROSION & SEDIMENTATION CONCERN IS THE OUTFLOW FROM THE DE-WATERING OPERATION.

CONTROL METHOD: IF A SMALL AMOUNT OF WATER IS ENCOUNTERED, THE OUTFLOW SHALL BE PLACED SUCH THAT THE WATER IS ENCOURAGED TO DISPERSE OVER UNDISTURBED EXISTING VEGETATION, UPSTREAM OF A SEDIMENT BARRIER.

IF LARGE AMOUNTS OF DE-WATERING IS REQUIRED, THE PUMP OUTLET SHALL BE DIRECTED INTO A 6" DIAMETER PERFORATED PIPE 50 FEET LONG (MIN.), LAID LEVEL ON EXISTING GRADE, WHERE THE WATER WILL FLOW ONTO UNDISTURBED EXISTING VEGETATION UPSTREAM OF A SEDIMENT BARRIER.

TEMPORARY VEGETATIVE COVER:

THE PURPOSE OF TEMPORARY VEGETATIVE COVER IS TO STABILIZE EXPOSED SOIL AND REDUCE WIND AND

TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL SOIL STOCKPILE AREAS WHICH WILL BE IN PLACE FOR MORE THAN 21 DAYS BETWEEN AUGUST 1 AND JUNE 15.

TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON AREAS WHERE CONSTRUCTION HAS BEEN COMPLETED AND PERMANENT STABILIZATION WILL NOT TAKE PLACE WITHIN 21 DAYS BETWEEN AUGUST 1 AND

IN ALL CASES, PERMANENT STABILIZATION SHALL BE COMPLETED WITHIN 12 MONTHS.

3. APPLY LIME PER SOIL TEST OR AT THE RATE OF 50 LB PER 1000 S.F.

IF TEMPORARY VEGETATIVE COVER CANNOT BE ESTABLISHED BETWEEN THE PRIME SEEDING DATES INDICATED BELOW, THE AREA SHALL BE STABILIZED TO THE EXTENT POSSIBLE WITH TEMPORARY MULCH.

REFER TO THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST ADDITION, FOR ADDITIONAL INFORMATION. SITE PREPARATION:

1. APPLICABLE EROSION AND SEDIMENTATION CONTROLS (SEDIMENT BARRIERS, ETC.) SHALL BE INSTALLED PRIOR TO ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER.

2. REMOVE LOOSE ROCK AND LARGE STONES, DEBRIS, TRASH, STUMPS AND OTHER NOXIOUS MATERIALS.

4. APPLY FERTILIZER PER SOIL TEST OR AT THE RATE OF 7 LB PER 1000 S.F. OF 10-10-10 FERTILIZER.

5. UNLESS HYDROSEEDED, LIME AND FERTILIZER SHALL BE WORKED INTO SOIL TO A DEPTH OF 4". 6. TILLAGE SHALL RESULT IN A UNIFORM CONTOUR, FREE FROM DEPRESSIONS AND WATER POCKETS.

1. APPLY ANNUAL RYEGRASS (OR APPROVED EQUAL) AT A RATE OF 1 LB PER 1000 S.F.

2. SEED SHALL BE APPLIED UNIFORMLY BY BROADCASTING, DRILLING OR HYDRAULIC APPLICATION.

3. UNLESS HYDROSEEDED, SEEDS SHALL BE COVERED WITH NOT MORE THAN 1/4 INCH OF SOIL. 4. APPLY MULCH AS REQUIRED IMMEDIATELY AFTER SEEDING.

5. SEEDING SHALL OCCUR BETWEEN APRIL 1 TO JUNE 15 AND / OR AUGUST 1 TO OCTOBER 1.

GENERAL E & S NOTES:

SITE (SEDIMENT BARRIER, STONE, SHOVELS, ETC.).

ALL EROSION AND SEDIMENTATION CONTROL METHODS SHALL BE IN ACCORDANCE WITH THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL, LATEST EDITION UNLESS SPECIFICALLY NOTED OTHERWISE ON THESE PLANS.

EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED WITHIN THE PROPER SEQUENCE DURING CONSTRUCTION (I.E. SEDIMENT BARRIERS INSTALLED DOWNSLOPE OF AREAS TO BE DISTURBED PRIOR TO DISTURBANCE).

ALL DISTURBED AREAS SHALL BE COVERED WITH A MINIMUM OF 4 INCHES OF TOPSOIL, SEEDED AND MULCHED IMMEDIATELY UPON COMPLETION OF FINAL GRADING.

ALL SOIL STOCKPILE AREAS SHALL BE ENCIRCLED WITH SEDIMENT BARRIERS. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON ANY STOCKPILE AREA WHICH IS TO REMAIN MORE THAN 21 DAYS. THE CONTRACTOR SHALL KEEP A SUPPLY OF EROSION AND SEDIMENTATION CONTROL TOOLS AND SUPPLIES ON

THE CONTRACTOR SHALL INSPECT THE EROSION AND SEDIMENTATION CONTROLS WEEKLY AND PRIOR TO A PREDICTED RAIN EVENT. THE EROSION AND SEDIMENTATION CONTROLS SHALL BE REPAIRED OR MAINTAINED AS

THE CONTRACTOR SHALL PROVIDE DUST CONTROL AS REQUIRED TO PREVENT WIND EROSION. THE METHOD USED SHALL BE APPROVED BU THE ENVIRONMENTAL PLANNER.

EROSION AND SEDIMENTATION CONTROL MEASURES ARE SUBJECT TO REVIEW AND APPROVAL BY THE TOWNS

ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AS DIRECTED BY THE TOWNS ENVIRONMENTAL PLANNER TO ADDRESS FIELD CONDITIONS. SEE THE ATTACHED EROSION CONTROL NARRATIVE, CONSTRUCTION SEQUENCE, CONSTRUCTION SCHEDULE FOR ADDITIONAL INFORMATION.

CONSTRUCTION NOTES:

UNDERGROUND UTILITY STRUCTURE FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED. IN PART, FROM RECORD MAPPING AND INFORMATION PROVIDED BY OTHERS. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES AND STRUCTURES MAY EXIST IN THE AREA, THE EXISTENCE OF WHICH IS UNKNOWN TO DUTTON ASSOCIATES, LLC. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION.

PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES AT CROSSING AND CONNECTION POINTS. ANY CONFLICT OR DISCREPANCY WITH THE PLANS SHALL BE REPORTED TO THE ENGINEER SO THAT ADJUSTMENTS TO THE DESIGN CAN BE MADE.

PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL REQUEST AN UNDERGROUND UTILITY MARK OUT BY CALLING THE CONNECTICUT UNDERGROUND UTILITY PROTECTION PLAN (PHONE 1-800-922-4455).

THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS AND ARRANGE FOR ALL NECESSARY INSPECTIONS FOR THE WORK TO BE PERFORMED.

THE CONTRACTOR IS RESPONSIBLE FOR PAYMENT OF ALL PERMIT AND/OR INSPECTION FEES.

THE CONDITIONS OF APPROVAL ARE A PART OF THIS PLAN, THE CONTRACTOR SHALL CONFORM TO ALL APPLICABLE CONDITIONS.

CONSTRUCTION WASTE AND/OR DEBRIS SHALL BE DISPOSED OF ONLY AT APPROVED LOCATIONS AND IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND/OR REGULATIONS.

CONSTRUCTION METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH; THE NOTES AND DETAILS ON THESE PLANS, IF NOT ON SAID PLAN THE TOWN OR CITY STANDARD DETAILS AND SPECIFICATIONS SHALL APPLY, AND IF NOT INCLUDED IN ABOVE, THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION, LATEST EDITION, FORM 814A AS APPLICABLE.

THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING STRUCTURES, SERVICES AND/OR PROPERTY CAUSED BY HIM DURING CONSTRUCTION. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER OF THE DAMAGED PROPERTY AT THE CONTRACTORS EXPENSE.

PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH OUTSIDE UTILITY COMPANIES PROVIDING SERVICE TO THE SITE. CONFLICTS WITH SUCH UTILITIES SHALL BE REPORTED TO THE ENGINEER SO THAT ADJUSTMENTS TO THE DESIGN CAN BE MADE.

SUGGESTED CONSTRUCTION SEQUENCE

1) INSTALL BASIC EROSION AND SEDIMENTATION CONTROLS. INSPECT AND MAINTAIN E & S CONTROLS WEEKLY AND/OR PRIOR TO A RAIN EVENT.

2) ROUGH GRADE SITE, THE RAIN GARDEN SHALL BE USED AS A TEMPORARY SEDIMENT BASIN.

3) EXCAVATE FOR AND INSTALL FOUNDATION, BEGIN HOUSE CONSTRUCTION.

4) CLEAR AND GRUB TREES FROM PROPOSED SEPTIC SYSTEM AREA.

5) INSTALL SEPTIC SYSTEM, SEPTIC TANK, PUMP CHAMBER AND SANITARY FORCE MAIN. DE-WATERING (IF REQUIRED) AT THE 24" HDPE FOR THE FORCE MAIN CROSSING SHALL BE DIRECTED TO TEH RAIN GARDEN.

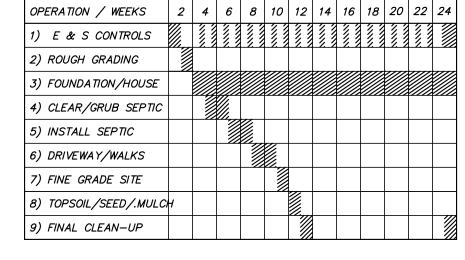
6) PAVE DRIVEWAY, INSTALL SIDEWALK.

7) FINE GRADE SITE

8) SPREAD TOPSOIL, SEED & MULCH

9) CONDUCT FINAL CLEAN-UP AND REMOVE SEDIMENT BARRIERS ONCE ALL UPSTREAM AREAS AARE STABILIZED.

SUGGESTED CONSTRUCTION SCHEDULE



STORM SEWER MAINTENANCE PLAN

PROPER MAINTENANCE OF THE RAIN GARDEN IS CRITICAL ITS PROPER FUNCTION. FOLLOWING ARE SUGGESTED MINIMUM MAINTENANCE ITEMS FOR THE RAIN GARDEN.

SPRING MAINTENANCE

FOLLOWING THE LAST SNOWFALL IN THE SPRING, THE FOLLOWING TASKS SHALL BE

1) THE DRIVEWAY SHALL BE SWEPT CLEANED OF ALL ACCUMULATED SAND AND DEBRIS. 2) INSPECT THE ROOF DRAIN DRAINAGE SYSTEM & GUTTERS, CLEAN DEBRIS FROM

GÚTTERS AND INSPECT THE VISIBLE ELEMENTS OF THE SYSTÉM FOR DAMAGE AND REPAIR AS NBECESSARY. 3) INSPECT THE RAIN GARDEN, REMOVE DEBRIS AND FRESHEN THE MULCH AS

REQUIRED. BE SURE TO USE AGED HARDWOOD MULCH. FALL MAINTENANCE

FOLLOWING THE LEAF DROP IN THE FALL, THE FOLLOWING TASKS SHALL BE

1) REMOVE ALL ACCUMULATED LEAVES AND DEBRIS FROM THE SITE.

2) INSPECT THE ROOF DRAIN DRAINAGE SYSTEM & GUTTERS, CLEAD DEBRIS FROM GÚTTERS AND INSPECT THE VISIBLE ELEMENTS OF THE SYSTEM FOR DAMAGE AND REPAIR AS NBECESSARY.

3) INSPECT THE RAIN GARDEN, REMOVE DEBRIS AND FRESHEN THE MULCH AS REQUIRED. BE SURE TO USE AGED HARDWOOD MULCH.

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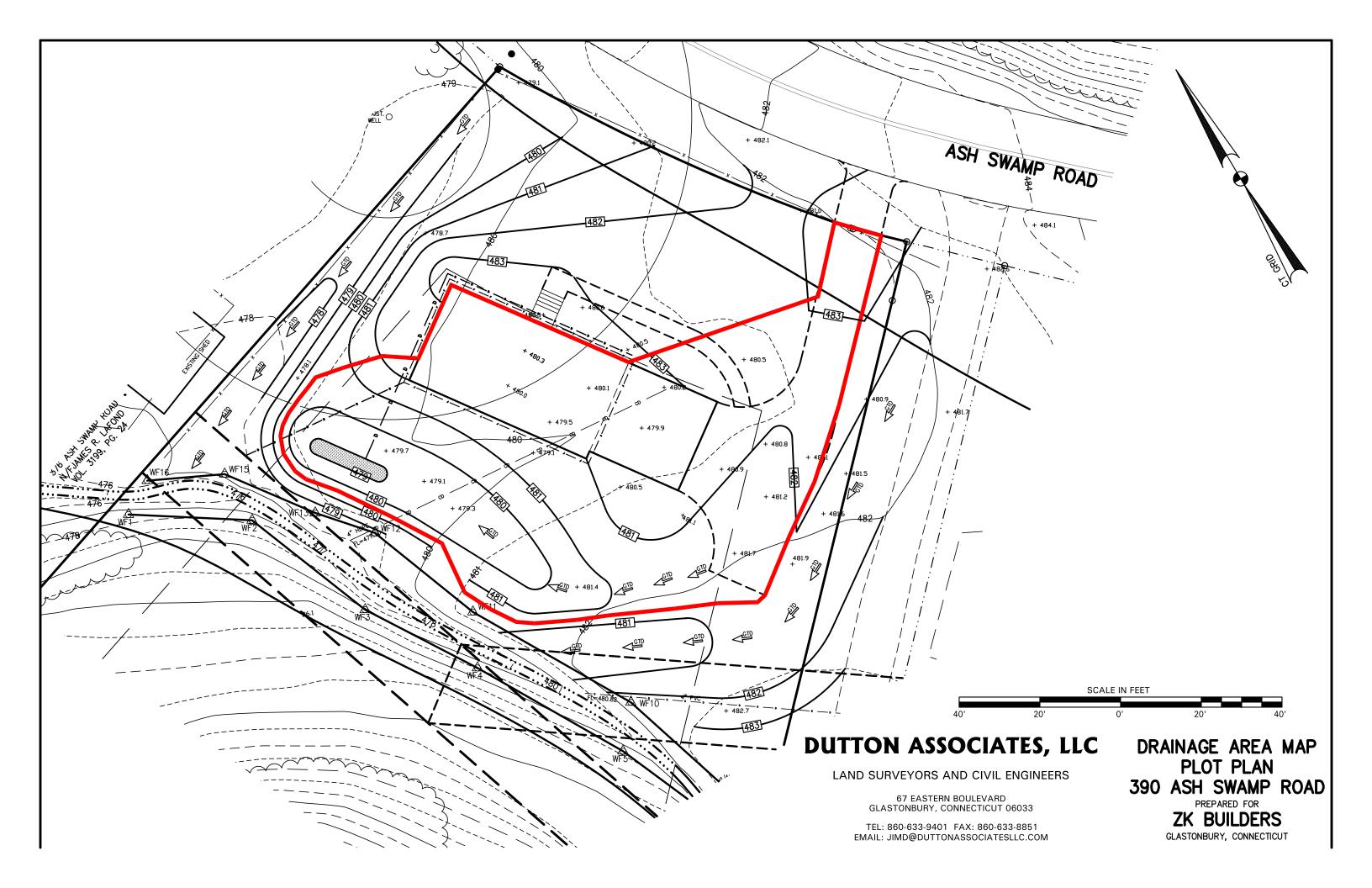
MARK A. REYNOLDS, P.E. #19785

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REVISIONS:

DATE: 03/14/2024 SCALE: AS NOTED

SHEET 7 of 7 A-22-323-A FILE: 22-323.DWG



| PROJECT INFORMATION | | | | | |
|-----------------------|---------------------------------------|--|--|--|--|
| Approval Type: | Special Permit Other: Wetlands Permit | | | | |
| Design Engineer Firm: | Dutton Associates, LLC | | | | |
| Project Name: | Plot Plan prepared for ZK Builders | | | | |
| Project Address: | 390 Ash Swamp Road | | | | |
| Submittal Date: | 03/14/2024 | | | | |
| Review Date: | | | | | |
| Reviewed By: | | | | | |

| GEN | ERAL PLAN CHECKLIST | | | | | |
|-----|--|--|--|--|--|--|
| Х | Maps prepared in accordance with the "Minimum Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996, as amended. | | | | | |
| Х | Coordinate System Identified (NAD 83, NAVD 88 required) | | | | | |
| Х | Label NAD83 coordinates and identify control points and bench marks | | | | | |
| Х | Location Plan (1" = 1000', including outline of property or site area) | | | | | |
| Х | North Arrow, Plan Scale, Date | | | | | |
| | Sealed by a CT Licensed Land Surveyor or Professional Engineer as Applicable | | | | | |
| Х | Note indicating Contractor requirement to "Call-Before-You-Dig" prior to any construction | | | | | |
| Х | X Complete legend identifying existing and proposed features | | | | | |
| | Town Approval block included on all sheets to be filed | | | | | |
| | Separate sheet included in plan set for Town approval motions and Department review memos | | | | | |
| | Parcel boundary closure check performed by Engineering | | | | | |
| | Addresses assigned to any newly created or combined parcels | | | | | |
| | Street Names identified for private roads or private drives to be named for addressing purposes | | | | | |
| Х | Standard Inspection Note on all applicable sheets stating: NOTE: THE CONTRACTOR SHALL NOTIFY THE TOWN OF GLASTONBURY ENGINEERING DIVISION 24 HOURS PRIOR TO BEGINNING ANY STORM DRAINAGE, SANITARY SEWER INSTALLATION, ROADWAY PREPARATION, PAVING, SIDEWALK, CURBING, OR ANY EXCAVATION IN THE TOWN RIGHT-OF-WAY TO SCHEDULE INSPECTIONS. THE DIVISION CAN BE REACHED BETWEEN 8:00 AM-4:30 PM MONDAY THRU FRIDAY AT (860) 652-7735. | | | | | |

| SITE | DEVELOPMENT PLAN CHECKLIST |
|------|---|
| | Plans certified by CT Licensed Land Surveyor and Professional Engineer |
| Х | Existing structures with indication of protection or removal. |
| Х | Existing curb cuts to be closed and restored. |
| Х | Wetlands and watercourses with 100' upland review area with Soil Scientist Certification |
| | FEMA Flood boundary derived from Flood Profile Data from the most current FIS (as applicable) |
| Χ | Proposed building lines, building footprint, finished floor elevations |
| Х | Existing ground contours at 2 foot intervals (or 1 foot intervals in Flood Zone areas) with spot elevations at highpoints and depressions, based on NAVD 1988. Include a minimum of two (2) benchmarks per sheet. Note source of topographic information and limits of field survey. |
| Х | Proposed finished ground contours at 2 foot intervals (or 1 foot intervals in Flood Zone areas) with spot elevations at highpoints and depressions, based on NAVD 1988. Depict grading for the entire site. |
| Х | Proposed limits of clearing, with specimen trees noted for protection |
| Х | Existing and proposed storm drainage facilities, including structure types, pipe size, slopes, materials, invert elevations, and connections to existing drainage systems, wetlands or watercourses, water quality treatment measures per 2004 DEEP Stormwater Quality Manual. SEE SEPARATE SHEETS FOR ADDITIONAL DRAINAGE REQUIREMENTS |
| Х | Proposed foundation drains showing invert levels of the drain at the building connection and the outlet (piped discharges into the public right-of-way are prohibited by ordinance) |
| Х | Existing and proposed water and sanitary sewer facilities, including all bends, valves, manholes, hydrants, and appurtenances with pipe sizes, slopes, materials and invert elevations within structures SEE SEPARATE SHEET FOR ADDITIONAL SEWER REQUIREMENTS |
| X | Proposed location of all other utilities (if known) including, but not limited to, natural gas, telephone and electrical (include equipment installation) |
| | Retaining walls with top and bottom of walls elevations noted. Confirm no grading or impacts on to abutting private property. |
| Х | Parking areas, including parking requirements table, appropriate aisle and space dimensions, # ADA spaces |
| Χ | Sight line adequate (200' minimum) at proposed driveway locations. |
| | Traffic control devices, pavement markings and signs. |
| Х | Sidewalks and sidewalk ramps Sidewalks continuous through driveways, 8" reinforced sidewalk at new commercial drives. Check for current Town details. |
| | Plantings minimum 10 feet away from sidewalks to avoid root intrusion, minimize plant obstruction complaints |
| | Guide rail and protective fencing as required for grading |
| X | Erosion and Sediment controls per 2002 E&S Control Guidelines (including narrative, area of disturbance in acres, phasing as required, construction entrance, silt fence, sediment basins, etc.). |
| | Obtain CT DEEP Construction General Permit for projects that disturb 5 acres or more. |

| | Report signed by CT Licensed Professional Engineer |
|---|--|
| | Narrative summarizing the proposed project, design methods used, and table of pre- and post–development flows at appropriate downstream locations showing zero net increase in runoff from the site for the 2, 10, 25, 50 and 100-year storm events. Summarize WQV required for the project area and the WQV retained by the proposed improvements. |
| | Hydrographs and calculations identifying peak runoff, velocities and timing of peak flows from the site at critical locations in the watershed as outlined in the CTDOT Drainage Manual, latest revision. Supporting information for the drainage analysis including, but not limited to, runoff coefficients, time of concentration flopaths, drywell design, etc. |
| | Confirm use of SCS hydrology methods for proposed detention, including latest NOAA Rainfall rates and Ty III rainfall distribution. |
| | Inventory and evaluation of hydraulic structures both on-site and in the downstream zone of influence (as defined in the Public Improvement Standards) to identify flow capacity, pipe velocities, hydraulic grade line elevations and physical condition |
| (| Identification of drainage structures and watercourses that are inadequate for existing or future conditions |
| | Hydraulic grade line computations for enclosed drainage systems indicating a minimum headwater clearanc of one (1) below top of frame for existing and proposed structures. |
| | Detention basin design information that includes stage-storage-discharge curves or tables, outlet control day flood routing calculations, subsurface conditions and maximum water surface elevations |
| | Outlet protection, riprap sizing, channel sizing, and channel lining calculations |
| | Gutter flow analysis and ponding calculations for low points (when requested by the Town Engineer) |
| | Plans with scale not to exceed 1" = 100' identifying topography, watershed boundaries (for overall site and storm drainage structures), soil types, land use characteristics and time of concentration flow paths with design points and labels corresponding to the drainage calculations for pre- and post-development condition |
| | Plans with 100-year flood limits derived from Flood Profile data provided in the latest version of the FEMA Flood Insurance Study (if applicable), inland wetland boundaries, and groundwater protection zones within t project limits |
| < | Computations of the <u>required</u> Water Quality Volume (WQV) to be retained on site for the project area and for the area draining to each proposed treatment system, include pre and post development impervious area are directly connected impervious area (DCIA). For redevelopment of sites that are currently developed with DCIA of 40% or more, one-half of the WQV from the site must be retained, for all other sites the full WQV must be retained .) |
| (| Computations of the WQV <u>actually retained</u> by the proposed treatment system(s). NOTE: Only storage belothe low-flow orifice of an outlet control structure can be considered retained for computation of the WQV. Skerelease of the WQV over a 24 to 48 hour period via infiltration or a small diameter orifice will also be considered as retained for the purposes of these computations. |
| Κ | WQV surface elevations clearly labeled and depicted on appropriate cross sections and details within the place. WQV retained by each proposed treatment system labeled on the plans. |
| (| Town of Glastonbury MS4 DCIA tracking table accurately filled out and affixed to the site plan and/or drainal plan sheets within the plan set. |

Town of Glastonbury Engineering Division Development Plan Review Checklist

| STO | RM DRAINAGE PLAN CHECKLIST |
|-----|--|
| | Plans certified by CT Licensed Professional Engineer |
| X | Existing and proposed storm drainage facilities, including structure types, pipe size, slopes, materials, invert elevations, and connections to existing drainage systems, wetlands or watercourses |
| | Outlet protection properly detailed, labeled with length, width, depth, type of riprap, geotextile, etc. |
| Х | Water Quality Volume treatment measures provided in compliance with Town Standards and the Town MS4 Permit. |
| Х | Maintenance plan and schedule for all public and private stormwater management facilities <u>including party</u> <u>responsible for maintenance</u> shown on the site plan or utility plan as applicable |
| | Deep sump catch basins for water quality where applicable. 2 foot sump for detention basin outlet structures. |
| | Channels and swales properly sized, lining specified and computed |
| Х | Appropriate details for non-standard structures |
| | No concentrated stormwater discharges to neighboring properties or public roadway |
| | Infiltration or subsurface detention facilities properly sized per drainage computations. Include overflow to town system where possible, inspection ports for maintenance, above groundwater elevation per test pits. |
| | Test pit data shown on plan for infiltration and subsurface detention systems |

| STORM DRAINAGE STORAGE / TREATMENT PLAN CHECKLIST | | | | | | |
|---|--|--|--|--|--|--|
| | Basin - Forebay sized for WQV | | | | | |
| | Basin - Bottom sloped at 1% toward outlet, Side slopes 4:1 or flatter for ease of maintenance | | | | | |
| | Basin - Underdrain to ensure complete emptying of basin in 48 hours | | | | | |
| Х | Basin - Emergency spillway sized properly with stable discharge point | | | | | |
| | Underground Storage - detailed layout of proposed system (plan and section views) | | | | | |
| | Underground Storage - relevant manufacturer details with storage computations | | | | | |
| Χ | Cross sections through basin or chamber depicting WQV and storm event water surface elevations | | | | | |
| | 2 foot sump for outlet structures, outlet structure details / elevations consistent with drainage computations | | | | | |

Town of Glastonbury Engineering Division Development Plan Review Checklist

| SANI | TARY SEWER CHECKLIST |
|------|---|
| | Plans certified by CT Licensed Land Surveyor and Professional Engineer |
| X | Existing and proposed sanitary sewer facilities, including all bends, manholes, appurtenances with pipe sizes, slopes, materials and invert elevations within structures |
| | Existing sewer laterals identified properly per record drawings |
| | Minimum cover 4 feet for public sewer |
| | Sewer laterals properly designed and specified per Town Standards (6-inch PVC minimum, cleanouts as required) |
| | Sampling manhole provided for all commercial and industrial buildings at street line (unless lateral connects directly to an existing manhole) |
| | Grease Trap or AGRU for Class III or IV Food Service Establishments (FOG Requirements) |
| Х | 75 foot separation of pump chamber, septic tanks, or grease trap from wells |
| | Appropriate sewer easement for Town facilities (25 foot wide). Must provide access to all structures with load bearing surface, grade of 15% or less. Consider need for construction easements. |
| | Bolted covers noted for off-road public sewer manholes |
| Х | Appropriate details for non-standard structures. |

| PREPARED BY | DATE PREPARED | DUTTON ASSOCIATES, LLC 67 EASTERN BOULEVARD | | | JOB NUMBER PAGE NUMBER 3/12/24 | | | |
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