SOIL EROSION & SEDIMENT CONTROL NOTES:

ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.

ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 1 WORKDAY, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF 2 TONS PER ACRE, ACCORDING TO STATE STANDARDS.

PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN 1 DAY AFTER FINAL GRADING. MULCH TO BE USED AS NECESSARY FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.

ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW YORK.

A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN 1 DAY OF THE PRELIMINARY GRADING.

IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF 2 TONS PER ACRE, ACCORDING TO STATE STANDARDS.

IN ACCORDANCE WITH THE STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, ANY SOIL HAVING A Ph OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A Ph OF 5 OR MORE, AND NO IRON SULFIDE PRIOR TO SEEDBED PREPARATION.

AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN A WAY THAT WILL PERMANENTLY ADJUST THE CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.

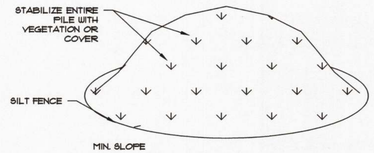
1. TOTAL SITE AREA: 71,686 S.F.
2. AREA OF DISTURBANCE: 15,378 S.F.
3. NO STORMWATER DISCHARGES ARE SHOWN ON THE PLAN.
4. DURING CONSTRUCTION A GARBAGE DUMPSTER WILL BE ON THE SITE AND CLEAN UP WILL BE CONDUCTED AT THE END OF EACH WORK DAY.
5. SOIL DESCRIPTION: DUB (DUTCHESS-CARDIGAN COMPLEX, UNDULATING, ROCKY) 100%
6. INSPECTIONS TO BE PERFORMED EACH WEEK AND AFTER 1/2" OF RAINFALL BY A QUALIFIED LICENSED PROFESSIONAL ENGINEER OR REGISTERED LANDSCAPE ARCHITECT.

CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 100 FEET.
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARDS CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
10. AREA OF DISTURBANCE: 16,263 SQFT (.37 ACRES)

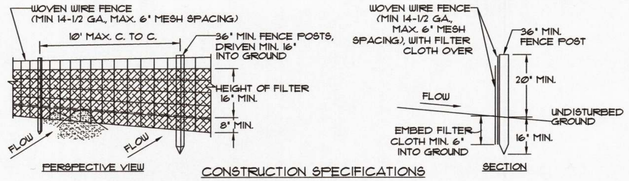
Rain Garden Design Calculations:

3,149 S. F. area from driveway & house
P = 90% Rainfall = 1.1
Rv=0.05 + 0.009(I) = 0.05 + 0.009(100) = 0.95
I = Percentage of Area Draining to the Site 100%
A= Area Draining to practice (Treatment Area). = 3149 S. F.
WQV = (1.1) (0.95) (3149) divided by 12 = 274.2 C. F.
WQV = 274.2 5 C. F.
Solve for drainage layer and soil media storage.
Volume: VSM=ARG xDSM x PSM
VDL = ARG x DDL x PDL
Where:
ARG= Proposed rain garden surface area = 300 SF.
DSM = Depth of Soil Media ----------= 18 inches -1.5 Ft.
DDL= Depth of Drainage Layer ----------= 6 inches -0.5 Ft.
DSM = Porosity of Soil Medium ----------= 0.20
DDL= Porosity of Drainage Layer----------= 0.40
VSM = 300 S. F. x 1.5 Ft. x 0.20---------- = 90 S.F.
VDL = 300 S. F. x 0.5 A x 0.40----------= 60 S.F.
WQV= 90 S. F. + 60 C. F. + (0.50x 300 S. F.)
WQV = 274.2 C. F. is less than 300.00 C. F.
Proposed design for treating area of 3412 S.F. exceeds the WQV requirements.



NOTES:
1 ALL ITEMS SHOWN ABOVE ARE INCIDENTAL TO SILT FENCE DETAIL UNLESS OTHERWISE NOTED, INCLUDING PERIODIC MAINTENANCE AND INSPECTION FOLLOWING RAIN EVENTS.
2 AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE STABLE.
3 MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
4 UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING AND THEN STABILIZED WITH VEGETATION OR COVERED.

1 / EC-1 TOPSOIL STOCKPILE DETAIL
NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.

POSTS: STEEL EITHER "T" OR "U" TYPE OR 2" HARDWOOD
FENCE: WOVEN WIRE, 14-1/2 GA., 6" MAX. MESH OPENINGS
FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUAL
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

2 / EC-1 SILT FENCE DETAIL
NOT TO SCALE

SEQUENCE OF SITE CONSTRUCTION:

INSTALL STABILIZED CONSTRUCTION ENTRANCE.

CLEAR AND REMOVE BRUSH WITHIN LIMITS OF DISTURBANCE ONLY.

CONSTRUCT SILT FENCE.

STRIP AND STOCKPILE TOPSOIL IF NECESSARY.

APPLY TEMPORARY SEEDING MIXTURE TO ALL EXCAVATED AREAS OF THE SITE AS REQUIRED AT THE END OF EACH OF WORK DAY.

MULCH SEEDED AREAS AS REQUIRED AT THE END OF EACH WORK DAY.

CONSTRUCT AGGREGATE BASE COURSE.

INSTALL STONE SURFACE COURSE.

REMOVE SILT FENCES, APPLY PERMANENT SEEDING MIXTURE.

CONTACT CHARLES MAY AT 845/896-2747, OR CONCERNING COMPLIANCE WITH THE IMPLEMENTATION OF SOIL AND EROSION CONTROL DEVICES.

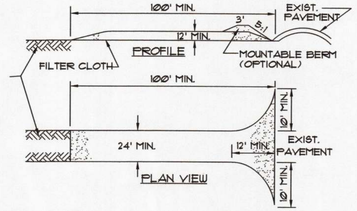
ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS REQUIRED BY WAPPINGER FALLS CODE ENFORCEMENT OFFICER.

MIDDLEBUSH ROAD MUST BE KEPT CLEAN AT ALL TIMES.

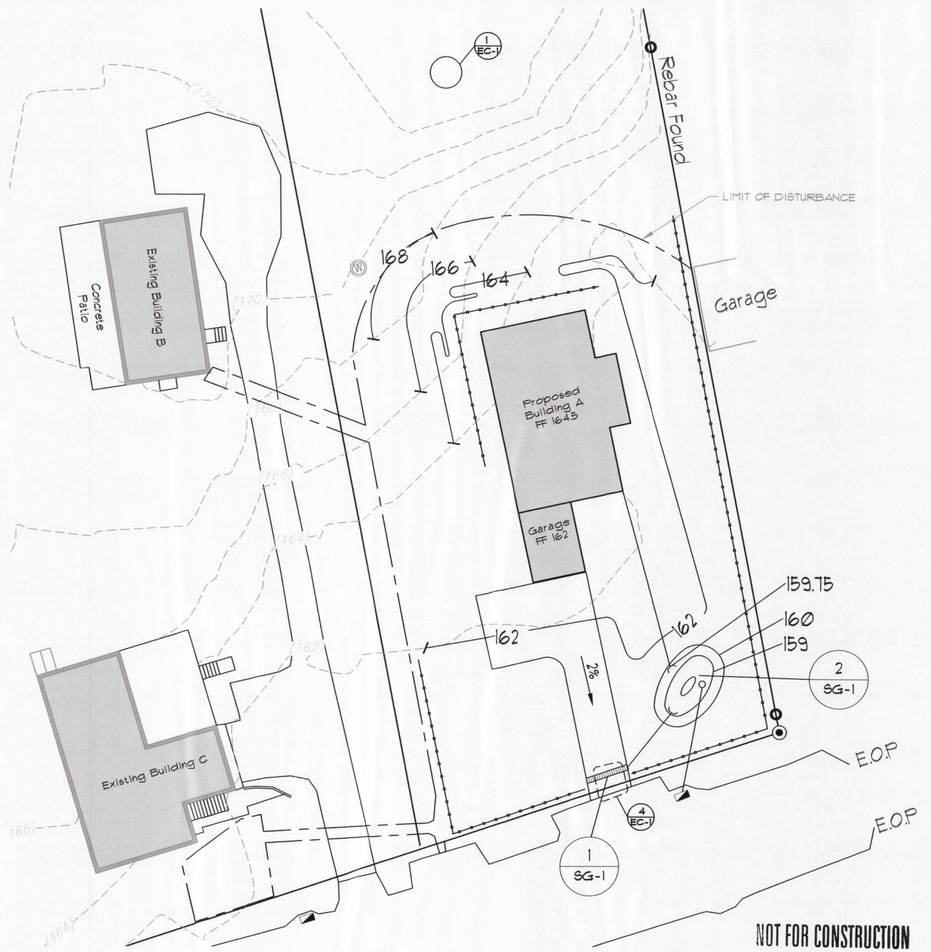
SEED MIXTURE	400 SQ. FT. PER LB.
35% FINE FESCUE 35% FINE-LEAFED RYEGRASS 15% KENTUCKY BLUEGRASS 9% ANNUAL RYEGRASS 6% WHITE CLOVER	

DENOTES AREAS TO BE SEEDED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION ACTIVITY

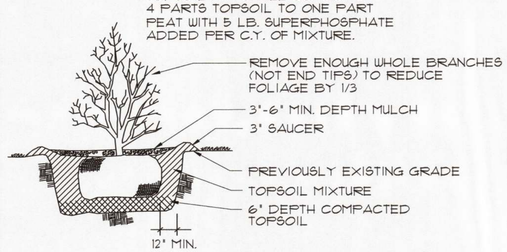
3 / EC-1 SEED MIXTURE
NOT TO SCALE



4 / EC-1 STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

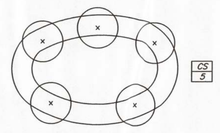


NOTE:
- PLANT SHALL BE SET AT ORIGINAL DEPTH, ALL BINDING CUT, AND BURLAP REMOVED FROM TOP 1/3 OF ROOT BALL.
- TOPSOIL MIX SHALL CONSIST OF 4 PARTS TOPSOIL TO ONE PART PEAT WITH 5 LB. SUPERPHOSPHATE ADDED PER C.Y. OF MIXTURE.



SHRUB PLANTING DETAIL
NOT TO SCALE

PLANT LIST						
KEY	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	REMARKS	MATURE HEIGHT
CS	5	CORNUS STOLONIFERA	RED-OSIER DOGWOOD	12"-18"	B&B	5'-9'



CS 5

PLANTING PLAN
NOT TO SCALE

STATE LAW PROHIBITS ANY PERSON FROM ALTERING ANYTHING ON THIS DRAWING AND/OR THE ACCOMPANYING SPECIFICATION. UNLESS IT IS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL. WHERE SUCH ALTERATIONS ARE MADE THE LICENSED PROFESSIONAL MUST SIGN, SEAL, DATE, AND DESCRIBE THE FULL EXTENT OF THE ALTERATION ON THE DRAWING AND/OR IN THE SPECIFICATION.

REVISIONS

NO.	DATE	BY	CHKD	DESCRIPTION

CHARLES P. MAY & ASSOCIATES, P.C.
DESIGN PROFESSIONALS
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845-567-3030 845-896-2747
Email:charlespmayassoc@aol.com Website:www.charlespmayassociates.com

REGISTERED LANDSCAPE ARCHITECT
CHARLES P. MAY
No. 701
STATE OF NEW YORK
9/11/23

39 MIDDLEBUSH ROAD
WAPPINGER FALLS
DUTCHESS COUNTY, NEW YORK 12590
TAX MAP ID. NO. 135689-6157-01-458871

DATE	DRAWN	CHECKED
9-12-23	JDC	CPM

SCALE: 1" = 20'-0"

SHEET TITLE
EROSION CONTROL PLAN

PROJECT NUMBER
2023-03

EC-1
DRAWING NUMBER

SHEET 5 of 10

Drawing Name: C:\PROJECTS\KIEL LAWRENCE - MIDDLEBUSH ROAD\DWGS\COMPLETE SET.DWG Date: 09/13/23 Time: 10:51 AM