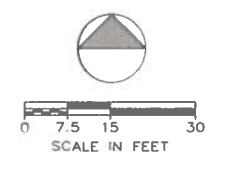


LOCATION MAP
N.T.S.



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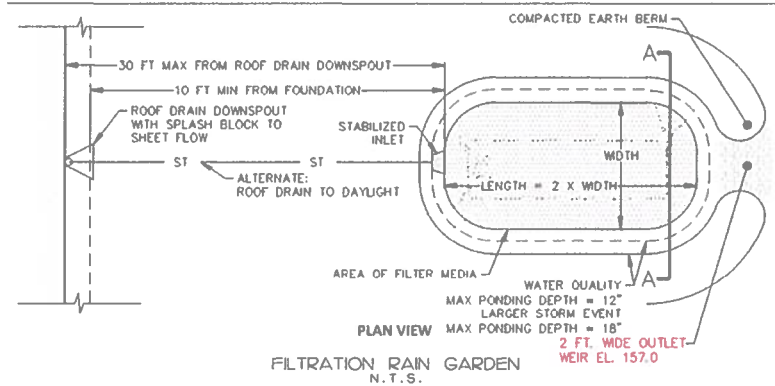


ADU SITE PLAN
129 SCENIC DRIVE WEST
VILLAGE OF CROTON-ON-HUDSON
WESTCHESTER COUNTY, NY
APRIL 28, 2026
SHEET 1 OF 2 SHEETS

Unauthorized alterations or additions to this drawing is a violation of Section 7209 (2) of the New York State Education Law.

RAIN GARDEN DESIGN:
(WQv ABOVE FILTER MEDIA)

IMPERVIOUS AREA TO BE CAPTURED: 510 S.F.
CAPTURE 2.0" (0.16') OF RAINFALL
STORAGE VOL. REQUIRED: 82 C.F.
AREA PROVIDED: 229 S.F.
AVERAGE DEPTH PROVIDED: 0.5 FT.
VOLUME PROVIDED: 115 C.F.



FILTRATION RAIN GARDEN
N. T. S.

		Infiltration Rain Garden	Filtration Rain Garden
Ponding ¹	Depth	12 inch max. (WQv) 18 inch max. (Extreme Flood)	
	Material		
Surface Layer ¹	Depth	3 inch min.	
	Material	Shredded Hardwood Mulch or Non-Invasive Living Mulch	
Filter Media ¹	Depth	12 inches min. 18 inches max.	18 inches min. 24 inches max.
	Material	ASTM C-33 Sand: 60%-75% Topsoil: 25%-40%	
Drainage Layer ¹	Depth	6 inches min.	10 inches min.
	Material	AASHTO No. 57, stone washed, no fines	
Drainage Filter Fabric ¹	Material ²	Non-woven, polypropylene geotextile with flow rate greater than 125 gpm/sf (ASTM D4491) and Apparent Opening Size US #70 sieve (ASTM D4751)	
	Applicability	N/A	As Required
Impermeable Liner	Material	1/2" - 3/4" inch of clay soil (min 50% passing #200 sieve and max permeability 1 x 10 ⁻⁶ cm/sec) or 40 mil HDPE geomembrane	
	Applicability	N/A	If Required
Underdrain	Material	6" perforated PVC or HDPE laid at 0.5% slope min. at 30 ft max. O.C.	
	Material		

¹Required for all Design Variants
²Or acceptable alternatives, such as a 3 inch minimum layer of pea gravel
³Topsoil shall conform to NYSDOT Standard Specification 713-01 for Roadside Mix or Specialty Planting Mix

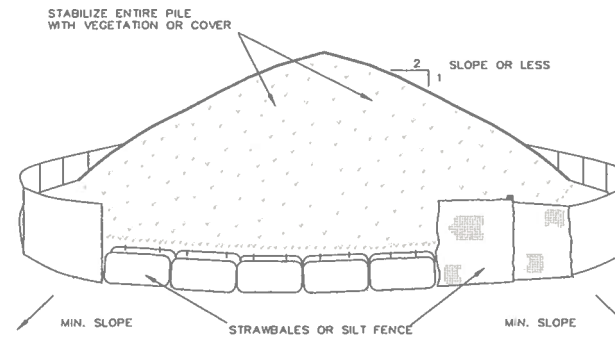
5.3.6.3.2 Sizing Criteria

- The required WQv is to be provided above the top of the filter media.
- Infiltration and filtration rain gardens shall be sized based on the principles of Darcy's Law. Calculate the minimum bottom area:

$$A_f = \frac{(WQ_v)(d_f)}{(k)(h_f + d_f)(t_f)} = \frac{(82)(1.0)}{(1)(0.5+1)(2)} = 27.3 \text{ S.F.}$$

Where:

- A_f = Surface area of filter bed (sf)
- WQ_v = Water Quality Volume (cf) = 82 C.F.
- d_f = Filter bed depth (ft) = 1.0 FT.
- k = Permeability flow rate of filter media (1 ft/day) = 1 FT/DAY
- h_f = Average height of ponding (ft) (0.5 ft max.) = 0.5 FT.
- t_f = Design filter bed drain time (2 days) = 2 DAYS



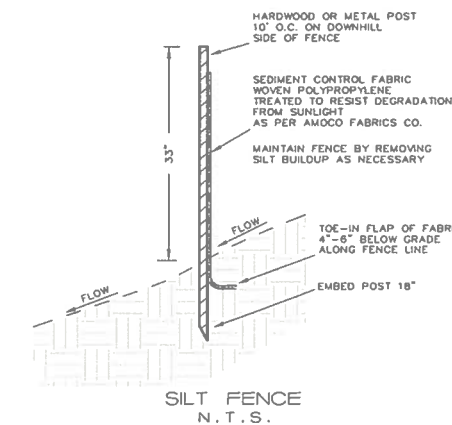
TO BE USED WHERE TOPSOIL PRESERVATION IS NECESSARY FOR REGRADING AND VEGETATING DISTURBED AREAS. TOPSOIL IS APPLIED TO SUBSOILS THAT ARE DROUGHTY (HAVING LOW AVAILABLE MOISTURE FOR PLANTS), STONY, SALTY, HAVE LOW PERMEABILITY, OR ARE EXTREMELY ACID. IT IS ALSO USED TO BACKFILL AROUND SHRUB AND TREE TRANSPLANTS. PRESERVATION OF EXISTING TOPSOIL IS BENEFICIAL FOR ALL TYPES OF LAWN OR ORNAMENTAL PLANTINGS.

TEMPORARY STOCKPILE STABILIZATION MEASURES INCLUDE VEGETATIVE COVER, MULCH, NON-VEGETATIVE COVER, AND PERIPHERAL SEDIMENT TRAPPING BARRIERS. THE STABILIZATION MEASURE(S) SELECTED SHOULD BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND REQUIRED DURATION OF USE.

INSTALLATION NOTES

- AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
- MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
- UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.

SOIL STOCKPILING
N. T. S.



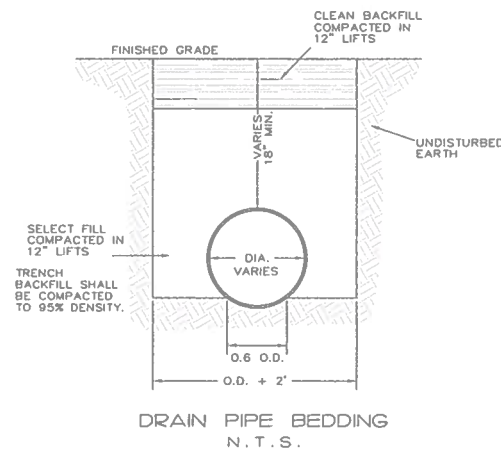
SILT FENCE
N. T. S.

CONSTRUCTION NOTES:

- THE CONTRACTOR SHALL LOCATE AND VERIFY IN THE FIELD ALL UTILITIES - GAS, WATER, ELECTRICAL BEFORE THE START OF CONSTRUCTION. CONTRACTOR SHALL CALL CODE 753 (FORMERLY CODE 53)
- EROSION CONTROL MEASURES, INCLUDING SILT FENCE, SHALL BE REQUIRED AS DIRECTED BY THE VILLAGE/TOWN.
- ALL PROPERTY DISTURBED IN THE R.O.W. OR ON PRIVATE LANDS, SHALL BE RESTORED TO NEW CONDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL APPLICATIONS AND PERMITS REQUIRED FOR CONSTRUCTION.
- UNDERGROUND GAS AND ELECTRIC SHALL BE AS REQUIRED BY THE VILLAGE/TOWN AND LOCAL POWER COMPANY.

EROSION AND SEDIMENT CONTROL NOTES:

- EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND PROCEDURES SHALL COMPLY WITH THE STANDARDS AND SPECIFICATIONS OF THE TOWN OF NEW CASTLE.
- PRIOR TO ANY EXCAVATION, SILT FENCE SHALL BE INSTALLED AT THE APPROPRIATE LOCATIONS NOTED ON EROSION CONTROL PLAN. SILT FENCING SHALL BE INSTALLED AS DIRECTED BY THE OWNER'S REPRESENTATIVE IN THE FIELD AND INSTALLED AS PER THE INSTRUCTIONS OF THE MANUFACTURER. ADDITIONAL SILT FENCE MAY BE PLACED BY THE OWNER'S REPRESENTATIVE IN THE FIELD. SILT FENCING SHALL BE MAINTAINED IN OPERABLE CONDITION AND SHALL NOT BE REMOVED UNTIL DISTURBED AREAS ARE THOROUGHLY STABILIZED.
- ALL FINISHED SLOPES AND ALL ROUGH CUT SLOPES TO REMAIN OPEN FOR EXTENDED PERIODS IMMEDIATELY TOPSOIL, SEED WITH A MIXTURE OF PERENNIAL RYE GRASS, ANNUAL RYE GRASS AND WINTER RYE AND MULCH WITH 6" OF HAY.
- ALL SLOPES CONSTRUCTED WITH FILL MATERIAL AND ALL SLOPES WITH GRADE 3:1 OR STEEPER SHALL BE TOPSOILED, SEEDED, MULCHED AND STABILIZED WITH STAKED JUTE NETTING, UNLESS OTHERWISE NOTED.
- ALL AREAS OF DISTURBED SOIL SHALL BE STABILIZED. IN ADDITION TO ALL SPECIFIED AND LOCATED EROSION CONTROL DEVICES, THE CONTRACTOR SHALL TAKE ALL STEPS PRUDENT AND NECESSARY TO STABILIZE THE SITE AT ALL TIMES.
- DO NOT STOCKPILE MATERIALS ON STEEP SLOPES. IN DRAINAGE SWALES OR IN WETLAND AREAS, SURROUND ALL STOCKPILE AREAS WITH SILT SCREEN AND SEED THEM WITH THE ANNUAL RYE GRASS.
- ALL CATCH BASINS ARE TO BE PROTECTED WITH HAYBALE FILTERS THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED.
- HAYBALES SHALL BE USED AT THE TOPS AND TOES OF SLOPES, AS NECESSARY, TO COLLECT SILT AND DIVERT FLOWS. SILT SCREENS WILL BE USED IN AREAS OF UNCONCENTRATED FLOWS TO COLLECT SILT. HAYBALES AND SILT SCREEN ON PLANS MAY BE AUGMENTED IN THE FIELD AS NECESSARY.
- UTILITY LINE EXCAVATED MATERIAL SHALL BE TEMPORARILY STOCKPILED ON HIGH SIDE OF EXCAVATION SO RUNOFF IS DIRECTED AWAY FROM TRENCH. AFTER BACK-FILLING, AREA IS TO BE TOPSOILED, SEEDED, AND MULCHED.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. SEDIMENT SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT RESULT IN ADDITIONAL EROSION OR POLLUTION.



DRAIN PIPE BEDDING
N. T. S.

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ADU DETAIL/NOTES
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