

TOWN OF ESSEX
LAND USE APPLICATION
PART ONE

PLEASE CHECK THE APPROPRIATE LINE(S) AND ATTACH THE APPROPRIATE APPLICATION(S):

SPECIAL EXCEPTION	_____	VARIANCE/ APPEAL	_____
SITE PLAN REVIEW	_____	APPROVAL OF LOCATION	_____
INLAND WETLANDS PERMIT	<u> X </u>	REGULATION TEXT AMENDMENT	_____
INLAND WETLANDS PERMIT - AGENT APPROVAL	_____	ZONE CHANGE	_____
	_____	COASTAL SITE PLAN REVIEW	_____
WETLAND PERMIT TRANSFER	_____	MODIFICATION OF PRIOR APPROVAL	_____
SUBDIVISION / RESUBDIVISION	_____	SPECIAL FLOOD HAZARD AREA PERMIT	_____

PROJECT DESCRIPTION: Move 12' x 18' shed, construct an 8' x 30' wood shed. Construct new 40' x 40' garage. New 16' x 18' shed.

STREET ADDRESS OF PROPERTY 17 Windsor Lane Ivoryton

ASSESSOR'S MAP 55 LOT 1-8 LOT SIZE 2.11 DISTRICT RU

APPLICANT GIOVANNI BERARDINELLI

EMAIL GBERARDINELLI@COMCAST.NET PHONE 860-867-7131

APPLICANT'S AGENT (if any) _____

EMAIL _____ PHONE _____

ENGINEER.SURVEYOR/ARCHITECT CLA ENGINEERS, INC.

EMAIL _____ PHONE 860-886-9166

Note:

1) TO BE ACCEPTED BY THE LAND USE OFFICE. THIS APPLICATION MUST BE COMPLETED, SIGNED, AND SUBMITTED WITH THE REQUIRED FEE(S) AND MAP(S) PREPARED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS.

2) THE SUBMITTAL OF THIS APPLICATION CONSTITUTES THE PROPERTY OWNER'S PERMISSION FOR THE COMMISSION OR ITS STAFF TO ENTER THE PROPERTY FOR THE PURPOSE OF INSPECTION.

3) I HERBY AGREE TO PAY ALL ADDITIONAL FEES AND/OR ADDRESS SUCH COSTS DEEMED NECESSARY BY THE LAND USE OFFICE AS DESCRIBED IN PART THREE OF THIS APPLICATION.

Town of Essex
Inland Wetlands and Watercourses Commission

Revised 2/2021 Fee: \$60 to Essex + \$60 to State = \$120

Application # 21-11 Date received by Office 6/17/21 Fee 120.00 ^{✓#} 2490

Owner of Record GIOVANNI & KERRY BERARDINELLI
Home Address 17 WINDSOR LANE IVORYTON
Mailing Address: SAME
Phone: 860-867-7131 Email: GBERARDINELLI@COMCAST.NET

Applicant's Name: -SAME-
Home Address _____
Mailing Address: _____
Phone: _____ Email: _____

Applicant's interest in the land if the applicant is not the property owner _____

Location of Property by Street & Village Address: 17 WINDSOR LANE, IVORYTON

State the names of all property owners adjacent to the subject property:

Name of Adjacent Property Owner	Street Address (include Mailing Address if Different)
SEE ATTACHED LIST	

For large properties, please attach another sheet if necessary.

Check applicable activities occurring in or within 100 feet of wetlands and/or watercourses:

- | | | | |
|-----------------------------------|---------------|------------------------|---------------|
| Construction of a structure(s) | <u> X </u> | Discharge | <u> </u> |
| Other site development work | <u> </u> | Pond creation/dredging | <u> </u> |
| Deposition or removal of material | <u> </u> | Tree removal | <u> </u> |
| Stream altering/channelization | <u> </u> | Dam maintenance | <u> </u> |
| Subdivision/Resubdivision | <u> </u> | Other | <u> </u> |

Nature of Request : Explain in detail the extent of any activity checked above, the type of material, and the equipment to be used to complete project. (Use additional sheets if necessary.)

Estimated time for completion: _____

Explain what alternatives have been considered in connection with this application to avoid altering inland wetlands and/or watercourses?

ACTIVITY LOCATION (Map with sufficient detail must be submitted as a part of the application)

Approximate number of acres of wetlands (or portion thereof) on the property: _____

Approximate area of inland wetlands to be altered: _____

If known, are vernal pools or tidal wetlands located on the property? NO

If yes, where and how many acres (or portion thereof) on the property? _____

Is property located within a Special Flood Hazard Area? NO

Is any portion of the property within the channel encroachment line? NO

Has the property been flagged by a licensed soil scientist 1

If yes, by who, and when? _____

Will there be water discharge into wetlands? NO

Discharge – Specify Type _____

ADDITIONAL INFORMATION MAY BE REQUIRED DEPENDING UPON THE COMPLEXITY OF THE PROJECT.

CERTIFICATION:

The applicant understands that this application is to be considered complete only when all information and documents required by the Commission have been submitted. The undersigned warrants the truth of all statements contained herein and in all supporting documents according to the best of his/her knowledge and belief. Permission is granted to the Town of Essex Inland Wetlands and Watercourses Commission and its agent(s) to walk the land, at reasonable times, and perform those tests necessary to properly review the application, both before and after a final decision has been issued.

Applicant's
Signature _____ Date _____

Owner's
Signature Beny Bernardelli Date 6/17/21

Commission Action _____ _____ _____
 Approved Denied Date

Agent Action _____ _____ _____
 Approved Denied Date



ADS GEOSYNTHETICS 0801T NONWOVEN GEOTEXTILE

Scope

This specification describes ADS Geosynthetics 8.0 oz (0801T) nonwoven geotextile.

Filter Fabric Requirements

ADS Geosynthetics 8.0 oz (0801T) is a needle-punched nonwoven geotextile made of 100% polypropylene staple fibers, which are formed into a random network for dimensional stability. ADS Geosynthetics 8.0 oz (0801T) resists ultraviolet deterioration, rotting, biological degradation, naturally encountered basics and acids. Polypropylene is stable within a pH range of 2 to 13. ADS Geosynthetics 8.0 oz (0801T) conforms to the physical property values listed below:

Filter Fabric Properties

PROPERTY	TEST METHOD	UNIT	M.A.R.V. (Minimum Average Roll Value)
Weight (Typical)	ASTM D 5261	oz/yd ² (g/m ²)	8.0 (271)
Grab Tensile	ASTM D 4632	lbs (kN)	205 (0.911)
Grab Elongation	ASTM D 4632	%	50
Trapezoid Tear Strength	ASTM D 4533	lbs (kN)	85 (0.378)
CBR Puncture Resistance	ASTM D 6241	lbs (kN)	535 (2.38)
Permittivity*	ASTM D 4491	sec ⁻¹	1.35
Water Flow*	ASTM D 4491	gpm/ft ² (l/min/m ²)	90 (3657)
AOS*	ASTM D 4751	US Sieve (mm)	80 (0.180)
UV Resistance	ASTM D 4355	%/hrs	70/500

PACKAGING	
Roll Dimensions (W x L) – ft	12.5 x 360 / 15 x 300
Square Yards Per Roll	500
Estimated Roll Weight - lbs	250

* At the time of manufacturing. Handling may change these properties.

PVC Perforated Pipe

Material

- ASTM D3034 Sewer SDR35
- ASTM D3034 Sewer SDR26
- ASTM D1785/D2665 SCH40
- ASTM D1785/D2665 SCH80

Pattern

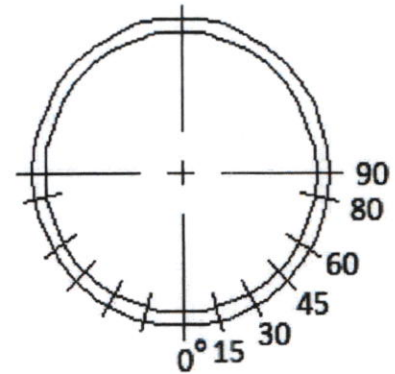
- Standard
- ASTM F-758 / AASHTO M278

→ Standard Pattern (per ASTM D2729)

Nominal Pipe Size	Hole Size	Hole Spacing	Hole Rows
→ 4" - 6"	1/2"	5" ± 1/4"	2 @ 120° (± 5°)
8" - 15"	7/8"	6" ± 1/4"	2 @ 120° (± 5°)

ASTM F758 / AASHTO M278 Pattern

Nominal Pipe Size	Hole Size	Hole Spacing	Hole Rows
4"	3/8"	3" ± 1/4"	2 @ 90° (± 3°)
6" - 10"	3/8"	3" ± 1/4"	2 @ 90°, 2 @ 160° (± 3°)
12" - 15"	3/8"	3" ± 1/4"	2 @ 90°, 2 @ 120°, 2 @ 160° (± 3°)



NATIONAL'S sewer (D3034) and DWV (D2665) PVC pipe is manufactured from a PVC compound with a cell class of 12454, as defined in ASTM D1784, and meets the standard specifications of ASTM D3212, if integral gasketed joints are provided. Gasket material conforms to the requirement of ASTM F477.

Standard pipe lengths for sewer are 14', and for DWV 20'. Other lengths are available upon special request.



NATIONAL PIPE & PLASTICS, INC.

American-made products since 1970

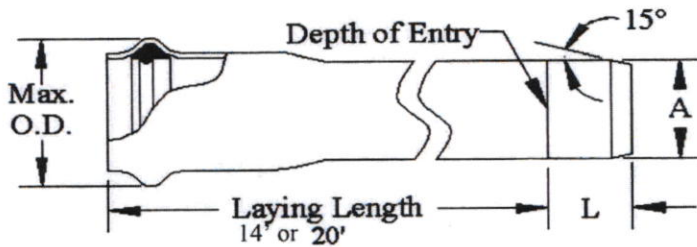
SEWER

Corporate Offices
New York Plant
3421 Old Vestal Road, Vestal, NY 13850
800.836.4350 607.729.9381 Fax: 607.729.6130

PVC SEWER & STORM DRAINAGE PIPE (4 - 15")

Scope: This submittal designates the general requirements for Unplasticized Polyvinyl Chloride (PVC) Plastic PSM Sewer Pipe from compound with a cell class 12454, as defined in ASTM Standard D-1784.

Pipe: Pipe in trade size diameters of 4" through 15" shall meet the requirements of the latest ASTM D-3034 Standard. If integral gasketed bell ends are provided on the pipe, the pipe joint must meet the requirements of ASTM Standard D-3212, and the sealing gasket must conform to the requirements of ASTM Standard F-477 for sizes 4"-15". Pipe in trade size diameters of 4 and 6 inch are available with solvent-weld bells. Pipe is manufactured to a standard laying length of 14 feet. Other lengths available upon request.



ASTM D-3034 Sewer Pipe Size and Dimensions

Nominal Size (in)	Metric (mm)	Dimension Ratio (SDR)	Approvals	Min Stiffness (psi)	"A" Average (OD) Outside Diameter	Minimum Wall	Max OD Reference	"L" Dimension (Min/Max)
4	100	35	ASTM	46	4.215	.120	5.050	3.250
		28	ASTM	91		.151		-
		26	ASTM	115		.162		3.500
5	135	28	ASTM	91	5.640	.201	6.188	3.750 - 4.125
6	150	35	ASTM	46	6.275	.180	7.305	4.000
		28	ASTM	91		.224		-
		26	ASTM	115		.241		4.375
8	200	35	ASTM	46	8.400	.240	9.605	4.125 -
		26	ASTM	115		.323		4.375
10	250	35	ASTM	46	10.500	.300	12.030	5.750 -
		26	ASTM	115		.404		6.000
12	300	35	ASTM	46	12.500	.360	14.100	5.875 -
		26	ASTM	115		.481		6.125
15	375	35	ASTM	46	15.300	.437	17.200	6.125 -
		26	ASTM	115		.588		6.375



NOTE: Canadian PVC sewer pipe specifications are available upon request. This Engineering submittal specification is for products delivered in the U.S. only.

Description

A silt fence is a woven geotextile fabric attached to wooden posts and trenched into the ground. It is designed as a sediment barrier to intercept sheet flow runoff from disturbed areas.

Appropriate Uses

A silt fence can be used where runoff is conveyed from a disturbed area as sheet flow. Silt fence is not designed to receive concentrated flow or to be used as a filter fabric. Typical uses include:

- Down slope of a disturbed area to accept sheet flow.
- Along the perimeter of a receiving water such as a stream, pond or wetland.
- At the perimeter of a construction site.



Photograph SF-1. Silt fence creates a sediment barrier, forcing sheet flow runoff to evaporate or infiltrate.

Design and Installation

Silt fence should be installed along the contour of slopes so that it intercepts sheet flow. The maximum recommended tributary drainage area per 100 lineal feet of silt fence, installed along the contour, is approximately 0.25 acres with a disturbed slope length of up to 150 feet and a tributary slope gradient no steeper than 3:1. Longer and steeper slopes require additional measures. This recommendation only applies to silt fence installed along the contour. Silt fence installed for other uses, such as perimeter control, should be installed in a way that will not produce concentrated flows. For example, a "J-hook" installation may be appropriate to force runoff to pond and evaporate or infiltrate in multiple areas rather than concentrate and cause erosive conditions parallel to the silt fence.

See Detail SF-1 for proper silt fence installation, which involves proper trenching, staking, securing the fabric to the stakes, and backfilling the silt fence. Properly installed silt fence should not be easily pulled out by hand and there should be no gaps between the ground and the fabric.

Silt fence must meet the minimum allowable strength requirements, depth of installation requirement, and other specifications in the design details. Improper installation of silt fence is a common reason for silt fence failure; however, when properly installed and used for the appropriate purposes, it can be highly effective.

Silt Fence	
Functions	
Erosion Control	No
Sediment Control	Yes
Site/Material Management	No

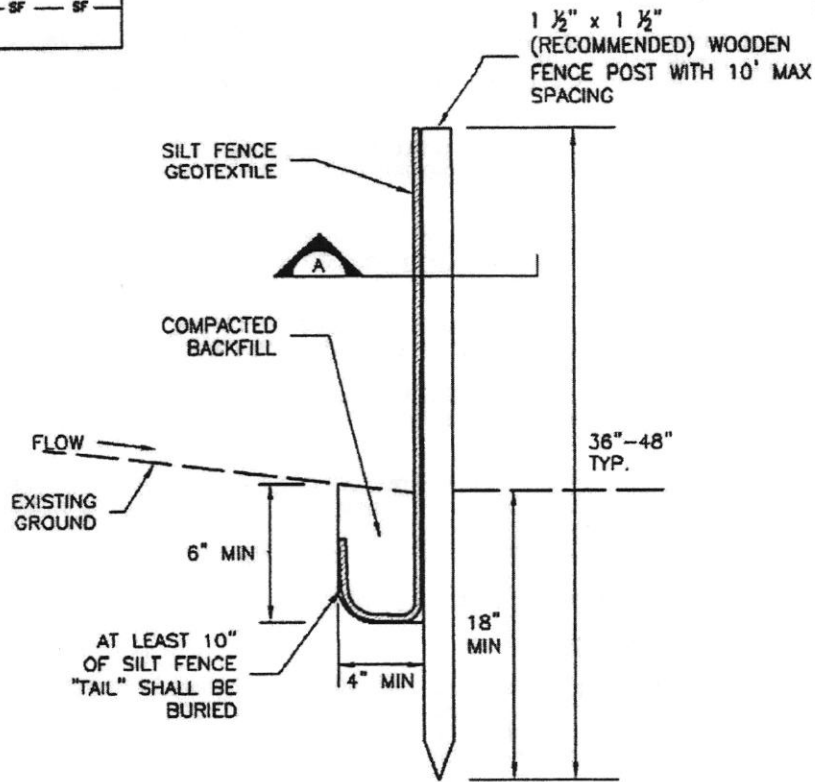
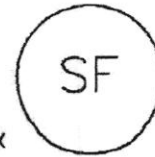
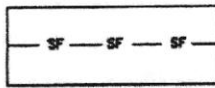
Maintenance and Removal

Inspection of silt fence includes observing the material for tears or holes and checking for slumping fence and undercut areas bypassing flows. Repair of silt fence typically involves replacing the damaged section with a new section. Sediment accumulated behind silt fence should be removed, as needed to maintain BMP effectiveness, typically before it reaches a depth of 6 inches.

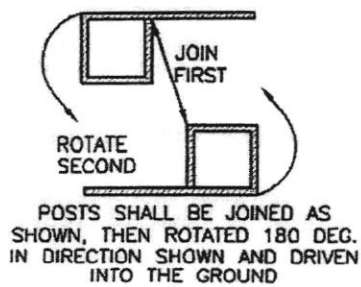
Silt fence may be removed when the upstream area has reached final stabilization.



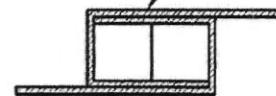
Photograph SF-2. When silt fence is not installed along the contour, a "J-hook" installation may be appropriate to ensure that the BMP does not create concentrated flow parallel to the silt fence. Photo courtesy of Tom Gore.



SILT FENCE



POSTS SHALL OVERLAP
AT JOINTS SO THAT NO GAPS
EXIST IN SILT FENCE



THICKNESS OF GEOTEXTILE HAS
BEEN EXAGGERATED, TYP

SECTION A

SF-1. SILT FENCE

SILT FENCE INSTALLATION NOTES

1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.
2. A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.
3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
4. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
5. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.
6. AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK." THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').
7. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

SILT FENCE MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".
5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
6. SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.
7. WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.