



IREDELL COUNTY DEVELOPMENT SERVICES
PLANNING & DEVELOPMENT-EROSION CONTROL SECTION
PO BOX 788 / 349 N. Center Street
STATESVILLE NC 28687-0788
(704) 878-3118 / FAX 928-2025

MAJOR EROSION CONTROL PLAN SUBMITTAL PACKET FOR MULTIPLE LOT DEVELOPMENT WITHOUT MASS GRADING

The following prerequisites must be met for this packet to be used as the submittal for the Major Erosion Control Permit:

- The land disturbing activity is for multiple lots within a subdivision.
- The disturbance is 1 acre or greater total for all lots to be developed.
- The project does not involve cutting and filling on the site, only clearing and light grading taking place.

If the project meets the requirements above, print out the packet, fill out the provided Financial Responsibility/Ownership Form, provide a copy of the deed and provide a map/print out of the lots to be developed (this can be found using the Iredell County GIS website). The fee for the permit is \$175 per acre or fraction of an acre (rounding up to the next acre).

The packet contains details for the following:

- Individual Lot Protection Detail
- Construction Drive
- Silt Fence
- Silt Fence Stone Outlet
- Wattle Check Dam
- Silt Bag
- Seeding Schedules
- Ground Cover Stabilization Timeframe



FINANCIAL RESPONSIBILITY/OWNERSHIP FORM EROSION & SEDIMENTATION CONTROL

No person may initiate any land-disturbing activity on one or more acres, 1/2 acre or more inside a watershed, as covered by the Sedimentation Pollution Control Act and the Iredell County Land Development Code, before an acceptable erosion and sedimentation control plan has been submitted and approved by the Iredell County Planning & Development, Erosion Control Section.
(Please type or print.)

Part A.

- Project Name _____
- Location of land-disturbing activity: County _____ City or Township _____
Highway/Street _____ Latitude _____ Longitude _____
- Approximate date land-disturbing activity will commence: _____
- Purpose of development (residential, commercial, industrial, institutional, etc.): _____
- Total acreage disturbed or uncovered (including off-site borrow and waste areas): _____
- Amount of fee enclosed: \$ _____. An application fee of \$175.00 per acre (rounded up to the next acre) is assessed without a ceiling amount (Example: a 9-acre application fee is \$1575). For projects > than 0.5 acres but no greater than 0.99 acres in a water supply watershed, a flat fee of \$135.00 is assessed.
- Has an erosion and sediment control plan been filed? Yes _____ No _____ Enclosed _____
- Person to contact should erosion and sediment control issues arise during land-disturbing activity:
Name _____ E-mail Address _____
Telephone _____ Cell # _____ Fax # _____
- Landowner(s) of Record (attach accompanied page to list additional owners):
Name _____ Telephone _____ Fax Number _____
Current Mailing Address _____ Current Street Address _____
City _____ State _____ Zip _____ City _____ State _____ Zip _____
- Deed Book No. _____ Page No. _____ Provide a copy of the most current deed.

Part B.

- Person(s) or firm(s) who are financially responsible for the land-disturbing activity (Provide a comprehensive list of all responsible parties on an attached sheet):

_____	_____
Name	E-mail Address
_____	_____
Current Mailing Address	Current Street Address
_____	_____
City _____ State _____ Zip _____	City _____ State _____ Zip _____
_____	_____
Telephone	Fax Number

2. (a) If the Financially Responsible Party is not a resident of North Carolina, give name and street address of the designated North Carolina Agent:

Name E-mail Address

Current Mailing Address Current Street Address

City State Zip City State Zip

Telephone Fax Number

(b) If the Financially Responsible Party is a Partnership or other person engaging in business under an assumed name, attach a copy of the Certificate of Assumed Name. If the Financially Responsible Party is a Corporation, give name and street address of the Registered Agent:

Name of Registered Agent E-mail Address

Current Mailing Address Current Street Address

City State Zip City State Zip

Telephone Fax Number

The above information is true and correct to the best of my knowledge and belief and was provided by me under oath (This form must be signed by the Financially Responsible Person if an individual or his attorney-in-fact, or if not an individual, by an officer, director, partner, or registered agent with the authority to execute instruments for the Financially Responsible Person). I agree to provide corrected information should there be any change in the information provided herein.

Type or print name Title or Authority

Signature Date

I, _____, a Notary Public of the County of _____

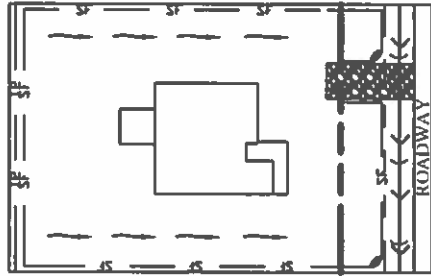
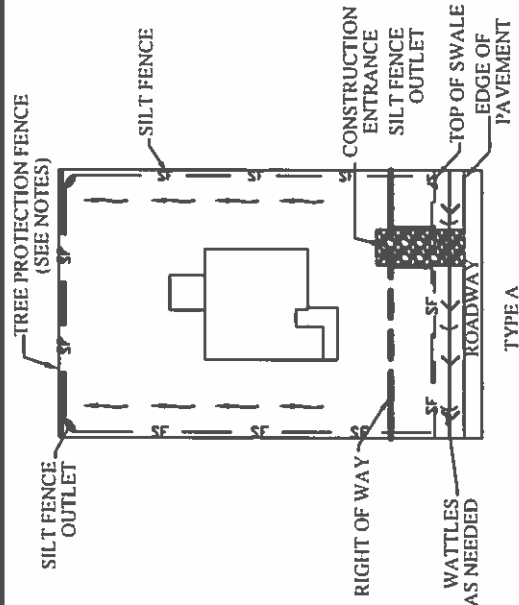
State of North Carolina, hereby certify that _____ appeared personally before me this day and being duly sworn acknowledged that the above form was executed by him.

Witness my hand and notarial seal, this _____ day of _____, 20 _____

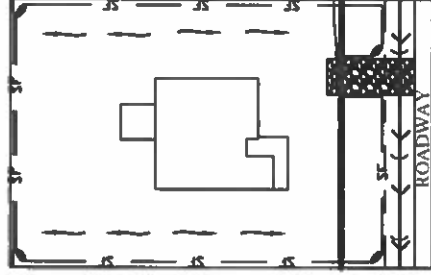
Seal

Notary

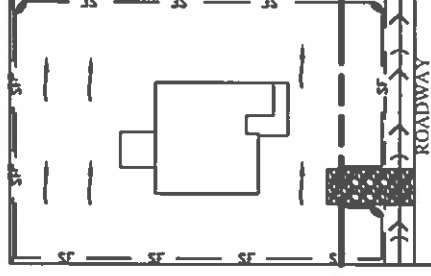
My commission expires _____



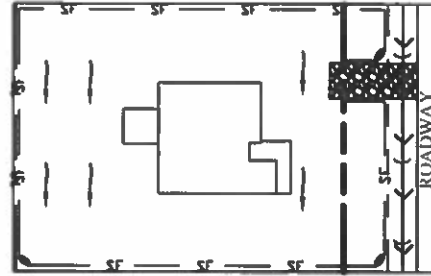
TYPE B



TYPE C



TYPE D



TYPE E

NOTES

- 1 TREE PROTECTION FENCE SHOULD BE INSTALLED ALONG THE REAR PROPERTY LINE WHEN ADJACENT TO RIPARIAN BUFFER ZONES, WETLANDS AND/OR 25 FT TREE AND VEGETATION PROTECTION ZONE.
- 2 WRAP EACH INDIVIDUAL LOT WITH SILT FENCE ON ALL SIDES AND INSTALL SILT FENCE OUTLETS SHOWN ON SCHEMATIC/DIAGRAM AND AS NEEDED.
- 3 CONSTRUCTION ENTRANCE SHOULD BE INSTALLED AT THE HIGH ELEVATION SIDE OF THE SITE.
- 4 THESE DETAILS ARE FOR ONLY LOTS WITH DISTURBED AREA LESS THAN ONE ACRE.
- 5 IF THE DISTURBED AREA IS GREATER THAN ONE ACRE, A PLAN SHOULD BE SUBMITTED FOR THE 30-DAY REVIEW CYCLE. THE PLAN SHOULD ADDRESS BERMS/DIVERSIONS AND SEDIMENT TRAPS AND BASINS.
- 6 IF MULTIPLE LOTS SHARE SILT FENCE WITH NONE INSTALLED BETWEEN THE LOTS, A REVISED PLAN WILL BE REQUIRED AND A NOTICE OF VIOLATION (NOV) WITH CIVIL PENALTY WILL BE ISSUED.
- 7 INLETS DOWNSTREAM OF DISTURBANCES SHOULD BE PROTECTED. STREETS SHOULD BE SWEEPED DAILY, AND MEASURES REMOVED OR DAMAGED BY SUB-CONTRACTORS OR UTILITIES SHALL BE RE-INSTALLED AT THE END OF THE WORK DAY.
- 8 DETAILS FOR SILT FENCE, SILT FENCE OUTLET, CONSTRUCTION ENTRANCE AND OTHER MEASURES PROVIDED ON OTHER SHEETS.

LEGENDS

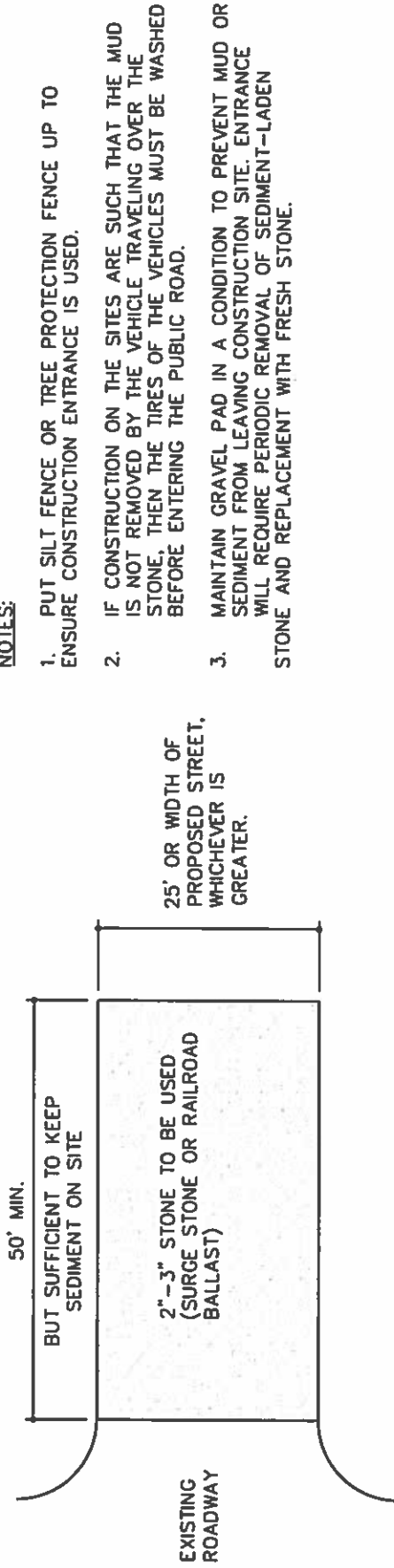
- FLOW DIRECTION
- SF — SILT FENCE
- > DIVERSION DITCH
- (WATTLES
- TP — TREE PROTECTION FENCE
- SILT FENCE OUTLET
- (WATTLES
- DRAINAGE PIPE
- CONSTRUCTION ENTRANCE

- 9 EROSION CONTROL DETAILS ARE NOT DRAWN TO SCALE.
- 10 ENSURE THAT LAND DISTURBANCE DOES NOT IMPACT SEPTIC FIELD OR REPAIR FIELD AS THIS MAY VOID ON-SITE WASTE WATER PERMIT VALIDITY.
- 11 IF LOTS ARE CONTIGUOUS AND HAVE DIFFERENT LAND OWNERS, LOTS CAN NOT SHARE THE SILT FENCES. EACH LOT SHOULD HAVE INDIVIDUAL SILT FENCES. THERE SHOULD BE A MINIMUM OF TWO ROWS OF SILT FENCES BETWEEN THE LOTS.
- 12 SILT FENCE SHOULD ONLY BE INSTALLED AT THE EDGE OF THE LIMITS OF DISTURBANCE OF THE BACK OF THE LOTS.
- 13 STANDARD PLAN DOES NOT COVER THE FOLLOWING:
 - a BASEMENT LOTS
 - b LOTS WITH GREATER THAN 5 FEET ELEVATION BETWEEN THEM AND/OR LOTS WITH GREATER THAN 10 FEET ELEVATION FROM FRONT TO BACK
 - c LOTS WITH CONCENTRATED FLOW/SWALES BETWEEN THEM
 - d LOTS WITH STORMWATER CONTROL MEASURES (SCMS)
 - e LOTS WITH CUT SLOPES OR "RUN ON"

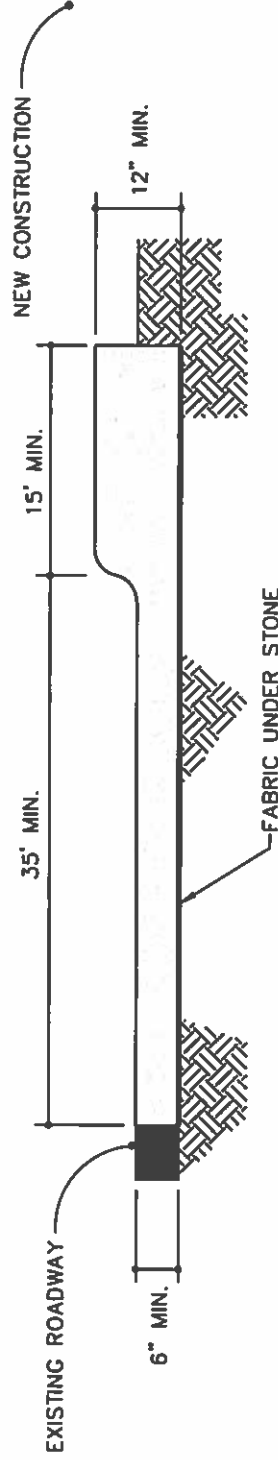


EFFECTIVE: 2/15/19

TYPICAL INDIVIDUAL LOT SEDIMENT & EROSION CONTROL MEASURES DETAIL



PLAN VIEW



CROSS SECTION

NOTES:

1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
3. MAINTAIN GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING CONSTRUCTION SITE. ENTRANCE WILL REQUIRE PERIODIC REMOVAL OF SEDIMENT-LADEN STONE AND REPLACEMENT WITH FRESH STONE.

25' OR WIDTH OF PROPOSED STREET, WHICHEVER IS GREATER.

50' MIN.

BUT SUFFICIENT TO KEEP SEDIMENT ON SITE

2\"-3\" STONE TO BE USED (SURGE STONE OR RAILROAD BALLAST)

EXISTING ROADWAY

35' MIN.

15' MIN.

NEW CONSTRUCTION

6\" MIN.

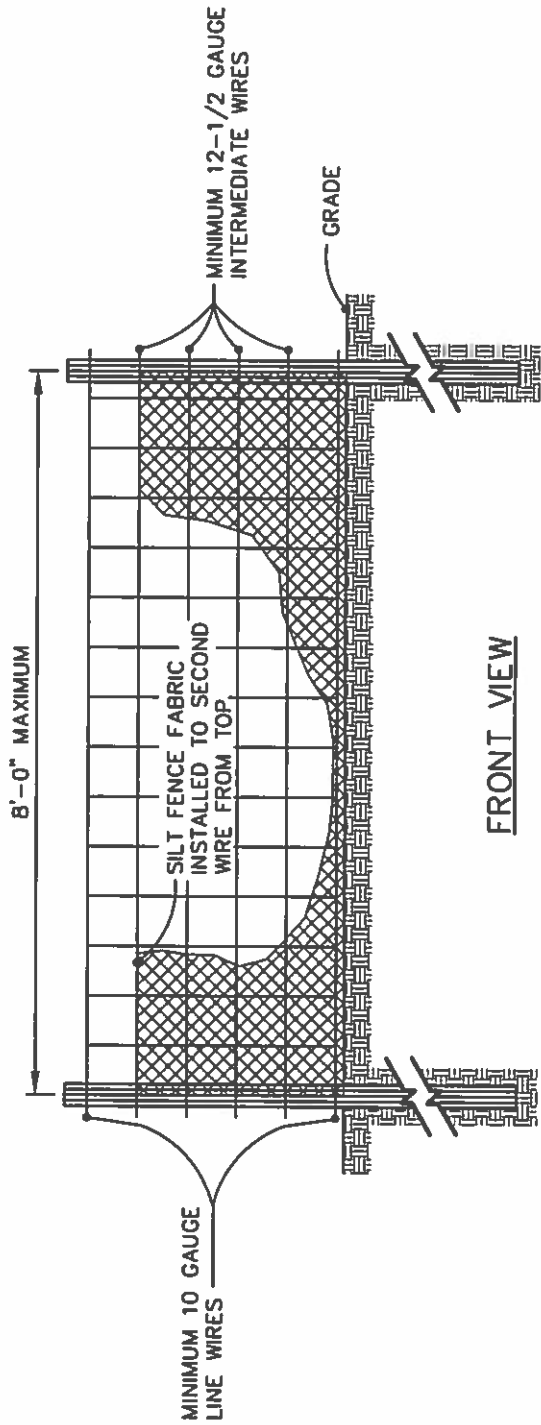
12\" MIN.

FABRIC UNDER STONE

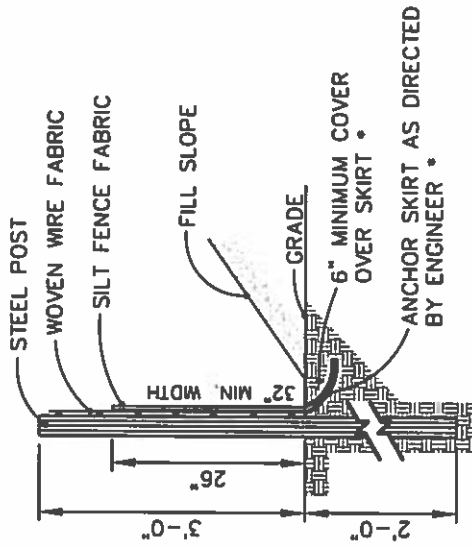
STANDARD CONSTRUCTION ENTRANCE



EFFECTIVE: 01/31/08



FRONT VIEW



SIDE VIEW

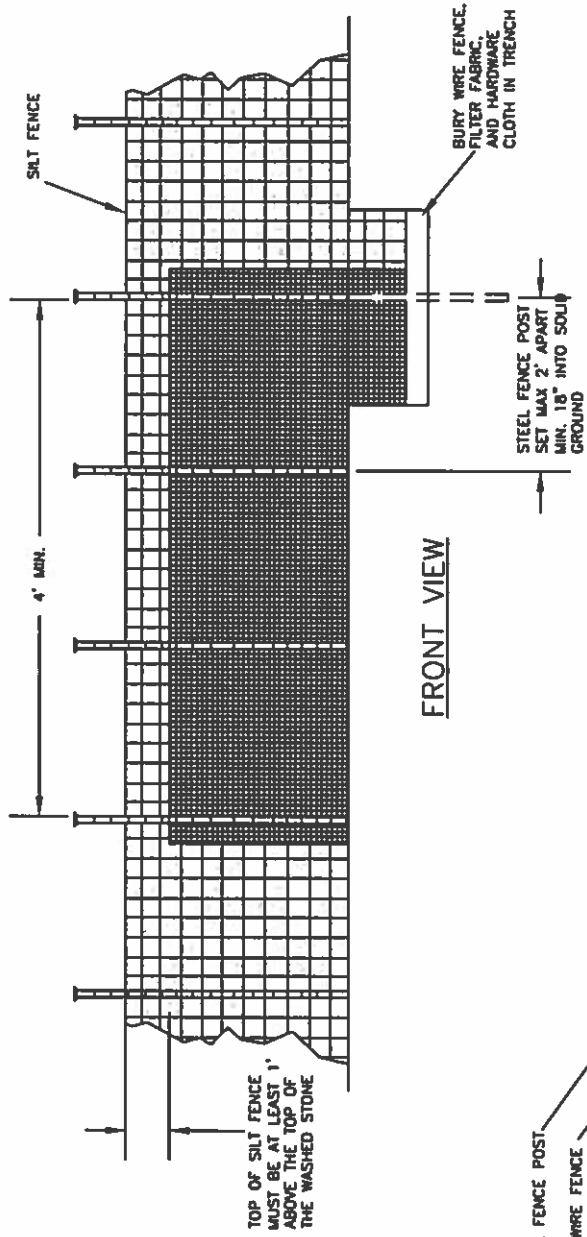
NOTE:

1. USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW.
2. REMOVE SEDIMENT DEPOSITED AS NEEDED TO PROVIDE STORAGE VOLUME FOR THE NEXT RAIN AND TO REMOVE PRESSURE ON THE SILT FENCE.



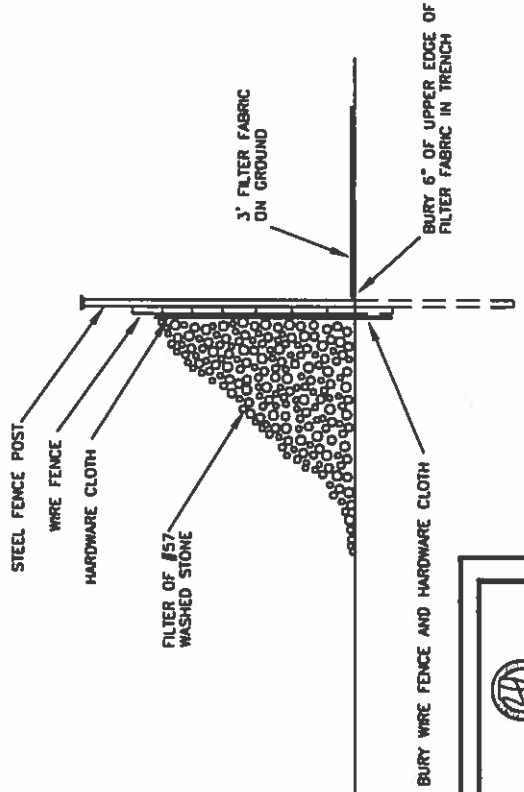
EFFECTIVE: 01/31/08

STANDARD TEMPORARY SILT FENCE



TOP OF SILT FENCE
MUST BE AT LEAST 1'
ABOVE THE TOP OF
THE WASHED STONE

FRONT VIEW



SECTION VIEW

- NOTES:
1. REMOVE SEDIMENT WHEN HALF OF STONE OUTLET IS COVERED.
 2. REPLACE STONE AS NEEDED TO ENSURE DEWATERING.



EFFECTIVE: 01/31/08

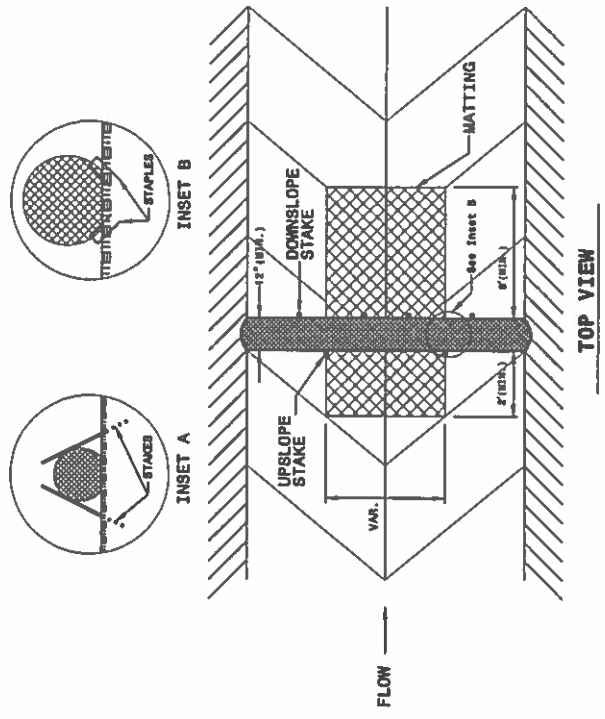
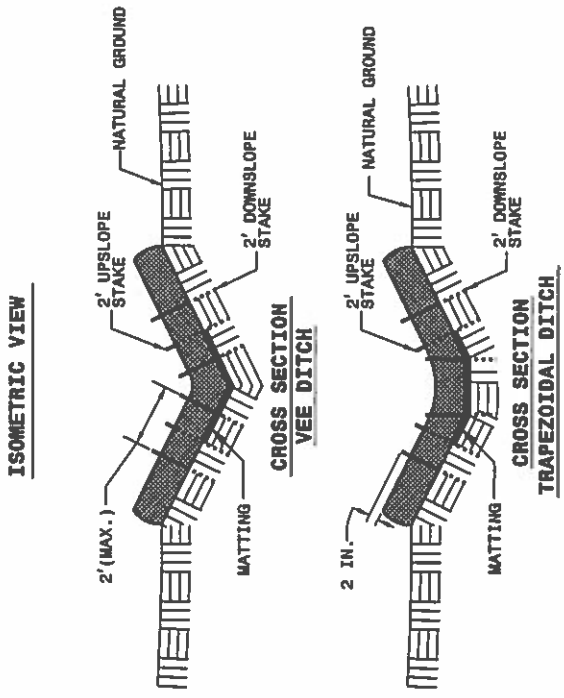
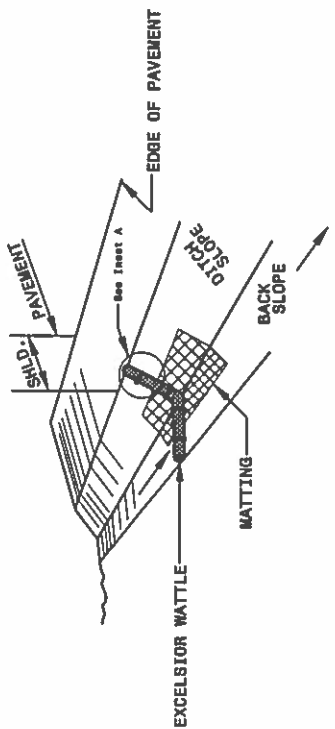
STANDARD SILT FENCE OUTLET

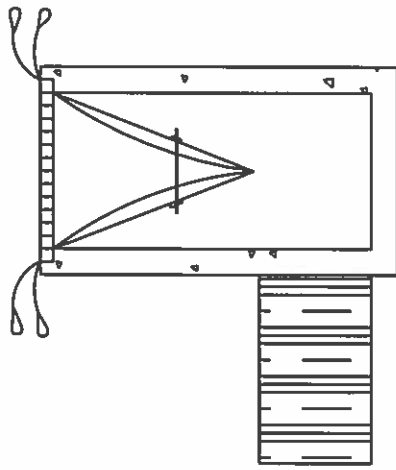
WATTLE DETAIL

PROJECT NUMBER	DATE
7-777	11-20-70
BY	CHECKED
W. J.
DESIGNED BY	APPROVED BY
...	...

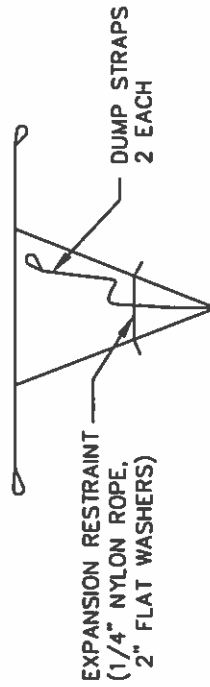
NOTES:

- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
- PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
- INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
- INSTALL WATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

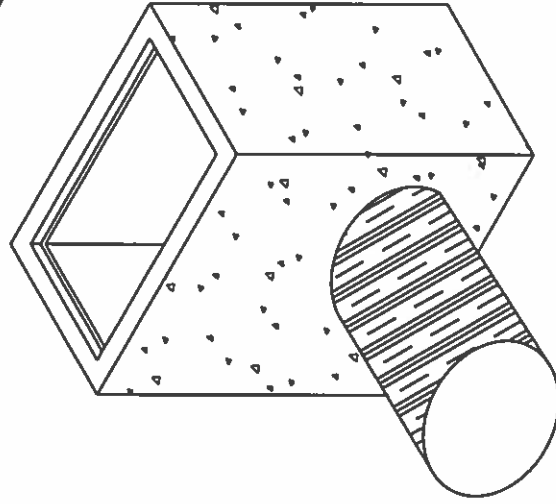
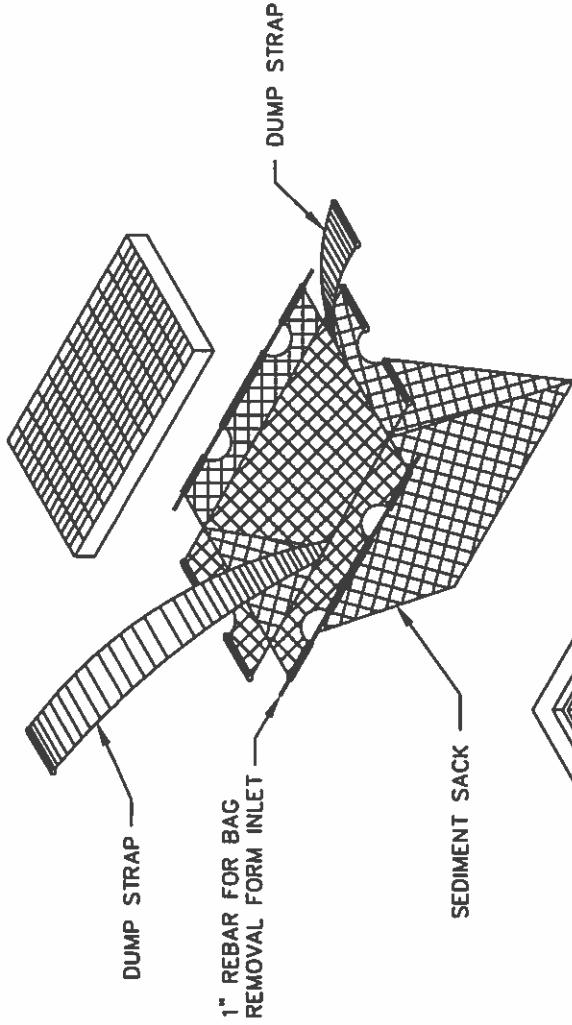




INSTALLATION DETAIL



BAG DETAIL



NOTES:

1. SOME MUNICIPALITIES DO NOT ALLOW GUTTER PROTECTION ON PUBLIC ROADS. SILT BAGS SHOULD BE USED WITH THESE CASES.
2. BAGS SHOULD BE CLEANED OUT AFTER EVERY RAIN EVENT AND/OR AS NEEDED.

STANDARD SILT BAG - INLET SEDIMENT CONTROL DEVICE



EFFECTIVE: 01/31/08

Temporary Seeding Recommendations for Summer

Seeding mixture Species	Rate (lb/acre)
German millet	40

In the Piedmont and Mountains, a small-stemmed Sudangrass may be substituted at a rate of 50 lb/acre.

Seeding dates
 Mountains—May 15 - Aug. 16
 Piedmont—May 1 - Aug. 15
 Coastal Plain—Apr. 15 - Aug. 15

Soil amendments
 Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

Mulch
 Apply 4,000 lb/acre straw. Anchor straw by lacing with asphalt netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance
 Referfertilize if growth is not fully adequate. Reseed, referfertilize and mulch immediately following erosion or other damage.

Temporary Seeding Recommendations for Fall

Seeding mixture Species	Rate (lb/acre)
Rye (grain)	120

Seeding dates
 Mountains—Aug. 15 - Dec. 15
 Coastal Plain and Piedmont—Aug. 15 - Dec. 30

Soil amendments
 Follow soil tests or apply 2,000 lb/acre ground agricultural limestone and 1,000 lb/acre 10-10-10 fertilizer.

Mulch
 Apply 4,000 lb/acre straw. Anchor straw by lacing with asphalt netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance
 Repair and referfertilize damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overseed with 50 lb/acre Kobe (Piedmont and Coastal Plain) or Korean (Mountains) lespedeza in late February or early March.

PERMANENT SEEDING REQUIREMENTS

1. Permanent seeding, sodding, or other means of stabilization are required when all construction work is completed according to the stabilization timeframes above.
2. A North Carolina Department of Agriculture Soils Test (or equal) should be obtained for all areas to be seeded, sprigged, sodded or planted. Recommended fertilizer and pH adjusting products should be incorporated to the soil.
3. Use a seeding mix of non-invasive, native species that will eventually provide a permanent groundcover. Recommendations for surface stabilization may be found at <http://portal.ncdenr.org/wcb/lr/publications>.
4. Immediate vegetative cover will always require additional fertilization, soil tests, overseeding and maintenance until permanent vegetative cover is established.

Temporary Seeding Recommendations for Late Winter / Early Spring

Seeding mixture species	Rate (lb/acre)
Rye (grain)	120
Annual lespedeza (Kobe in Piedmont and Coastal Plain, Kanson in Mountains)	50

Drill annual lespedeza when duration of temporary cover is not to extend beyond June.






Seeding dates
 Mountains—Above 2500 feet: Feb. 15 - May 15
 Below 2500 feet: Feb. 1 - May 1
 Piedmont—Jan. 1 - May 1
 Coastal Plain—Dec. 1 - Apr. 15

Soil amendments
 Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

Mulch
 Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance
 Retest if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

NEW STABILIZATION TIMEFRAMES

Site Area Description	Stabilization	Timeframe Exceptions
 Perimeter dikes, swales, ditches and slopes	7 days	None
 High Quality Water (HQW) Zones	7 days	None
 Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
 Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length.
 All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and HQW Zones.