

**Town of Oakdale  
Lakeside Inspections  
Tomah, WI 54660**

**(608) 387-0121    l.gilles@bldgpermit.com**

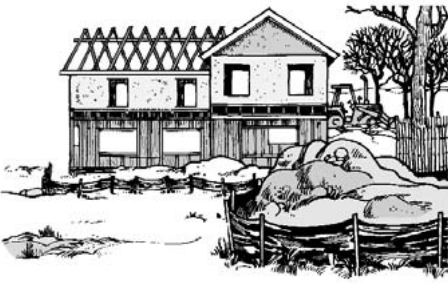
For obtaining a building permit for a **NEW ONE OR TWO FAMILY DWELLING** the following must be done before the Town's Inspector can issue a Building permit.

1. Sanitary Permit - You must have a sanitary permit issued from Monroe County. If you already have a septic system on your property and it is more than 2 years old, you would need what is called a "re-connect permit" from the County.
2. County Zoning Permit - The County controls the zoning for the Town of Oakdale and therefore you will need a Land-Use permit from Monroe County Planning and Zoning.
3. Town of Oakdale Driveway Permit.- Available from The Town of Oakdale.
4. Two (2.) sets of building plans must be submitted to Lakeside Inspections.

**EACH SET OF PLANS SHALL CONTAIN THE FOLLOWING;**

- a. Plot plan showing the location of the building in relation to other buildings, wells, surface waters, property lines, and septic systems. An Erosion Control Plan shall be included on the plot plan. and shall show the direction of all slopes on the site. Where the land will be disturbed, the slopes shall be indicated in one of 3 categories- less than 12% slope, 12% to 20% slope, or more than 20% slope. The plan shall indicate initial erosion control measures planned based on the slopes prior to construction.
- b. Floor plans for each floor level that show the size and location of all rooms, doors, windows, structural features (**including braced wall lines**), exits, and stairs. The use of each room shall be indicated. The location of plumbing fixtures, chimneys, and heating and cooling appliances, **including heating distribution layout**. Include a cross-section that shows all the components of the structure, including foundation, studs, joists, beams, rafters, trusses, columns, insulation, exterior grade level, etc.
- c. Elevations which show the exterior appearance of the building, indicate the location, size, and configuration of doors, windows, roof, chimneys, exterior grade, footing and foundation walls, and include the type of exterior finish.
- d. Energy Calculations - REScheck, RemRate, or other data, calculations, and information to determine if the building will meet the thermal envelope requirements of the WI Uniform Dwelling Code (UDC). REScheck is a free program available at [www.energycodes.gov](http://www.energycodes.gov)
5. Building Permit Application -You will need to submit an application through the "ESLA" Uniform Dwelling Code Permit Application at [https://esla.wi.gov/apex/customer\\_portal\\_intro\\_page](https://esla.wi.gov/apex/customer_portal_intro_page) Then send the permit fees ( \$1185.00 ) and a hard copy of one or 2 sets of plans to me. An electronic copy of the plans can be sent to my email in lieu of the 2nd set of plans required.

All this information and forms are available  
at Lakeside Inspections Web-site at [www.bldgpermit.com](http://www.bldgpermit.com)  
along with applications for other types of permits also.



# Erosion Control for Home Builders

**By controlling erosion, home builders help keep our lakes and streams clean.**



**E**roding construction sites are a leading cause of water quality problems in Wisconsin. For every acre under construction, about a dump truck and a half of soil washes into a nearby lake or stream unless the builder uses erosion controls. Problems caused by this sediment include:

## **Taxes**

Cleaning up sediment in streets, sewers and ditches adds extra costs to local government budgets.

## **Lower property values**

Neighboring property values are damaged when a lake or stream fills with sediment. Shallow areas encourage weed growth and create boating hazards.

## **Poor fishing**

Muddy water drives away fish like northern pike that rely on sight to feed. As it settles, sediment smothers gravel beds where fish like smallmouth bass find food and lay their eggs. Soil particles in suspension can act like a sand blaster during a storm and damage fish gills.

## **Nuisance growth of weeds and algae**

Sediment carries fertilizers that fuel algae and weed growth.

## **Dredging**

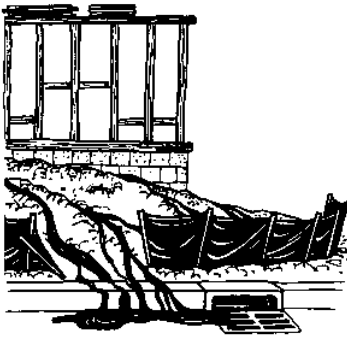
The expense of dredging sediment from lakes, harbors and navigation channels is paid for by taxpayers.

This fact sheet includes the diagrams and step-by-step instructions needed by builders on most home sites. Additional controls may be needed for sites that have steep slopes, are adjacent to lakes and streams, receive a lot of runoff from adjacent land, or are larger than an acre. If you need help developing an erosion control plan or training your staff, contact your local building inspection, zoning or erosion control office.

## **Controlling Erosion is Easy**

Erosion control is important even for home sites of an acre or less. The materials needed are easy to find and relatively inexpensive – straw bales or silt fence, stakes, gravel, plastic tubes, and grass seed. Putting these materials to use is a straightforward process. Only a few controls are needed on most sites:

- Preserving existing trees and grass where possible to prevent erosion;
- Revegetating the site as soon as possible;
- Silt fence or straw bales to trap sediment on the downslope sides of the lot;
- Placing soil piles away from any roads or waterways;
- Diversions on upslope side and around stockpiles;
- Stone/rock access drive used by all vehicles to limit tracking of mud onto streets;
- Cleanup of sediment carried off-site by vehicles or storms; and
- Downspout extenders to prevent erosion from roof runoff.



**A poorly installed silt fence will not prevent soil erosion. Fabric must be buried in a trench and sections must overlap (see diagram on back of this fact sheet).**

## WARNING! Extra measures may be needed if your site:

- is within 300 feet of a stream or wetland;
- is within 1000 feet of a lake;
- is steep (slopes of 12% or more);
- receives runoff from 10,000 sq. ft. or more of adjacent land;
- has more than an acre of disturbed ground.

For information on appropriate measures for these sites, contact your local building inspection, zoning or erosion control office.

## Straw Bale or Silt Fence

- Install within 24 hours of land disturbance.
- Install on downslope sides of site parallel to contour of the land.
- Extended ends upslope enough to allow water to pond behind fence.
- Bury eight inches of fabric in trench (see back page).
- Stake (two stakes per bale).
- Leave no gaps. Stuff straw between bales, overlap sections of silt fence, or twist ends of silt fence together.
- Inspect and repair once a week and after every ½-inch rain. Remove sediment if deposits reach half the fence height. Replace bales after three months.
- Maintain until a lawn is established.

## Soil Piles

- Cover with plastic and locate away from any downslope street, driveway, stream, lake, wetland, ditch or drainageway.
- Temporary seed such as annual rye or winter wheat is recommended for topsoil piles.

## Access Drive

- Install an access drive using two-to-three-inch aggregate prior to placing the first floor decking on foundation.
- Lay stone six inches deep and at least seven feet wide from the foundation to the street (or 50 feet if less).
- Use to prevent tracking mud onto the road by all vehicles.
- Maintain throughout construction.
- In clay soils, use of geotextile under the stone is recommended.

## Sediment Cleanup

- By the end of each work day, sweep or scrape up soil tracked onto the road.
- By the end of the next work day after a storm, clean up soil washed off-site.

## Sewer Inlet Protection

- Protect on-site storm sewer inlets with straw bales, silt fences or equivalent measures.
- Inspect, repair and remove sediment deposits after every storm.

## Downspout Extenders

- Not required, but highly recommended.
- Install as soon as gutters and downspouts are completed to prevent erosion from roof runoff.
- Use plastic drainage pipe to route water to a grassed or paved area. Once a lawn is established, direct runoff to the lawn or other pervious areas.
- Maintain until a lawn is established.

## Preserving Existing Vegetation

- Wherever possible, preserve existing trees, shrubs, and other vegetation.
- To prevent root damage, do not grade, place soil piles, or park vehicles near trees marked for preservation.
- Place plastic mesh or snow fence barriers around trees to protect the root area below their branches.

## Revegetation

- Seed, sod or mulch bare soil as soon as possible. Vegetation is the most effective way to control erosion.

## Seeding and Mulching

- Spread four to six inches of topsoil.
- Fertilize and lime if needed according to soil test (or apply 10 lb./1000 sq. ft. of 10-10-10 fertilizer).
- Seed with an appropriate mix for the site (see table).
- Rake lightly to cover seed with ¼" of soil. Roll lightly.
- Mulch with straw (70-90 lb. or one bale per 1000 sq. ft.).
- Anchor mulch by punching into the soil, watering, or by using netting or other measures on steep slopes.
- Water gently every day or two to keep soil moist. Less watering is needed once grass is two inches tall.

# Standard Erosion Control Plan

## for 1- & 2-Family Dwelling Construction Sites

According to Chapters Comm 20 & 21 of the Wisconsin Uniform Dwelling Code, soil erosion control information needs to be included on the plot plan which is submitted and approved prior to the issuance of building permits for 1- & 2-family dwelling units in those jurisdictions where the soil erosion control provisions of the Uniform Dwelling Code are enforced. This Standard Erosion Control Plan is provided to assist in meeting this requirement.

### Instructions:

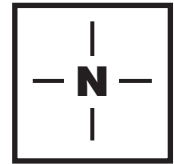
1. Complete this plan by filling in requested information, completing the site diagram and marking appropriate boxes on the inside of this form.
2. In completing the site diagram, give consideration to potential erosion that may occur before, during, and after grading. Water runoff patterns can change significantly as a site is reshaped.
3. Submit this plan at the time of building permit application.

PROJECT LOCATION \_\_\_\_\_

BUILDER \_\_\_\_\_ OWNER \_\_\_\_\_

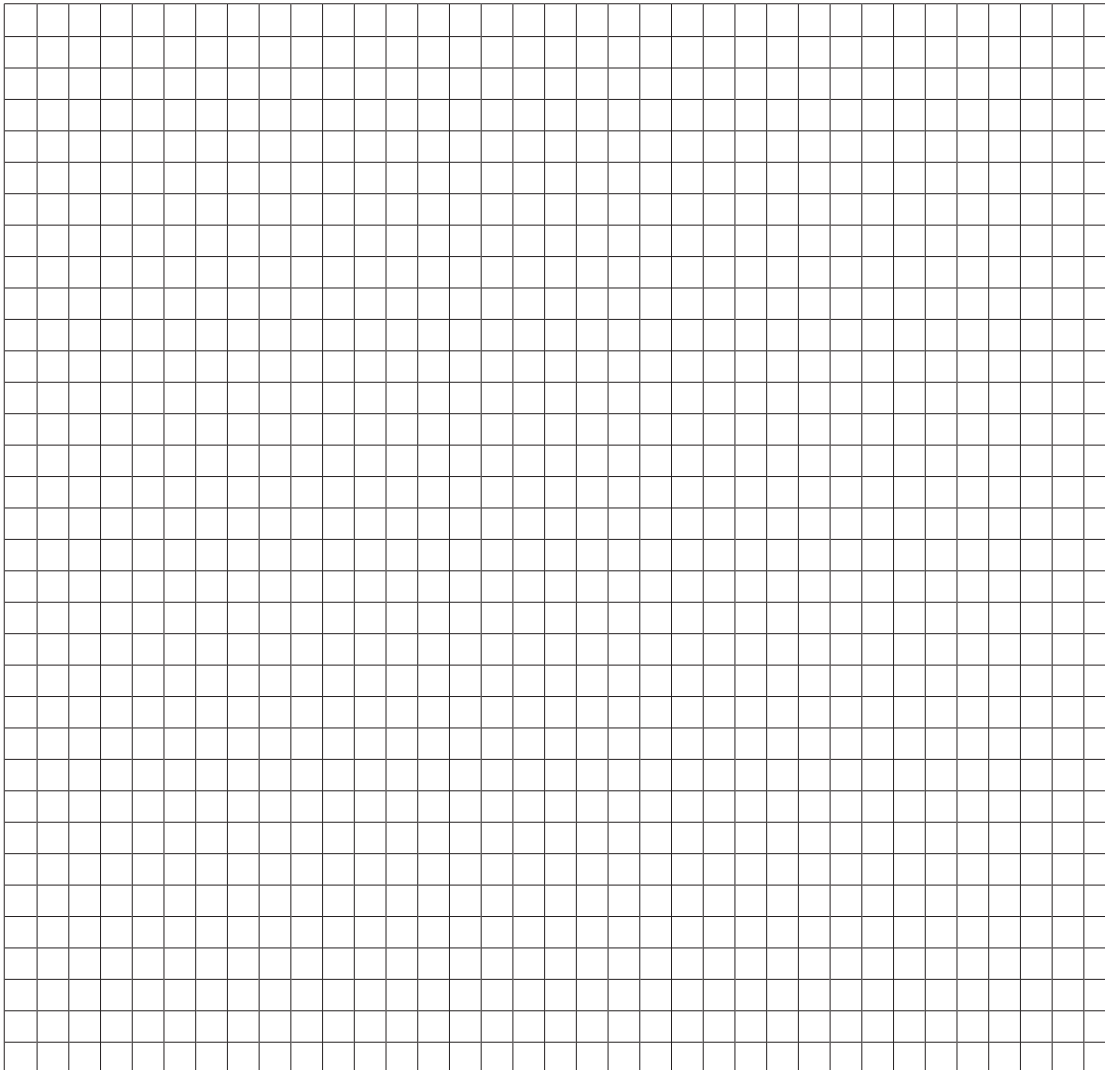
WORKSHEET COMPLETED BY \_\_\_\_\_ DATE \_\_\_\_\_

Please indicate north by completing the arrow.



### SITE DIAGRAM

Scale: 1 inch = \_\_\_\_ feet



### EROSION CONTROL PLAN LEGEND

--- PROPERTY LINE

—> EXISTING DRAINAGE

—> TD TEMPORARY DIVERSION

—> FINISHED DRAINAGE


--- LIMITS OF GRADING

—■— SILT FENCE

—●— STRAW BALES

 GRAVEL

 VEGETATION SPECIFICATION

 TREE PRESERVATION

 STOCKPILED SOIL

# EROSION CONTROL PLAN CHECKLIST

Check (✓) appropriate boxes below, and complete the site diagram with necessary information.

## Site Characteristics

North arrow, scale, and site boundary. Indicate and name adjacent streets or roadways.

Location of existing drainageways, streams, rivers, lakes, wetlands or wells.

Location of storm sewer inlets.

Location of existing and proposed buildings and paved areas.

The disturbed area on the lot.

Approximate gradient and direction of slopes before grading operations.

Approximate gradient and direction of slopes after grading operations.

Overland runoff (sheet flow) coming onto the site from adjacent areas.

## Erosion Control Practices

Location of temporary soil storage piles.

Note: Soil storage piles should be placed behind a sediment fence, a 10 foot wide vegetative strip, or should be covered with a tarp or more than 25 feet from any downslope road or drainageway.

Location of access drive(s).

Note: Access drive should have 2 to 3 inch aggregate stone laid at least 7 feet wide and 6 inches thick. Drives should extend from the roadway 50 feet or to the house foundation (whichever is less).

Location of sediment controls (filter fabric fence, straw bale fence or 10-foot-wide vegetative strip) that will prevent eroded soil from leaving the site.

Location of sediment barriers around on-site storm sewer inlets.

Location of diversions.

Note: Although not specifically required by code, it is recommended that concentrated flow (drainageways) be diverted (re-directed) around disturbed areas. Overland runoff (sheet flow) from adjacent areas greater than 10,000 sq. ft. should also be diverted around disturbed areas.

Location of practices that will be applied to control erosion on steep slopes (greater than 12% grade).

Note: Such practices include maintaining existing vegetation, placement of additional sediment fences, diversions, and re-vegetation by sodding or seeding with use of erosion control mats.

Location of practices that will control erosion on areas of concentrated runoff flow.

Note: Unstabilized drainageways, ditches, diversions, and inlets should be protected from erosion through use of such practices as in-channel fabric or straw bale barriers, erosion control mats, staked sod, and rock rip-rap. When used, a given in-channel barrier should not receive drainage from more than two acres of unpaved area, or one acre of paved area. In-channel practices should not be installed in perennial streams (streams with year round flow).

Location of other planned practices not already noted.

COMPLETED

NOT APPLICABLE

Indicate management strategy by checking (✓) the appropriate box.

## Management Strategies

☐☐

Temporary stabilization of disturbed areas.

Note: It is recommended that disturbed areas and soil piles left inactive for extended periods of time be stabilized by seeding (between April 1 and September 15), or by other cover, such as tarping or mulching.

☐

Permanent stabilization of site by re-vegetation or other means as soon as possible (lawn establishment).

- Indicate re-vegetation method: ☐ Seed ☐ Sod ☐ Other \_\_\_\_\_
- Expected date of permanent re-vegetation: \_\_\_\_\_
- Re-vegetation responsibility of: ☐ Builder ☐ Owner/Buyer
- Is temporary seeding or mulching planned if site is not seeded by Sept. 15 or sodded by Nov. 15? ☐ Yes ☐ No

☐☐

Use of downspout and/or sump pump outlet extensions.

Note: It is recommended that flow from downspouts and sump pump outlets be routed through plastic drainage pipe to stable areas such as established sod or pavement.

☐☐

Trapping sediment during de-watering operations.

Note: Sediment-laden discharge water from pumping operations should be ponded behind a sediment barrier until most of the sediment settles out.

☐

Proper disposal of building material waste so that pollutants and debris are not carried off-site by wind or water.

☐

Maintenance of erosion control practices.

- Sediment will be removed from behind sediment fences and barriers before it reaches a depth that is equal to half the height of the barrier.
- Breaks and gaps in sediment fences and barriers will be repaired immediately. Decomposing straw bales will be replaced (typical bale life is three months).
- All sediment that moves off-site due to construction activity will be cleaned up before the end of the same workday.
- All sediment that moves off-site due to storm events will be cleaned up before the end of the next workday.
- Access drives will be maintained throughout construction.
- All installed erosion control practices will be maintained until the disturbed areas they protect are stabilized.

# EROSION CONTROL REGULATIONS

Erosion control and stormwater regulations can be complex. Local, state and, in some cases, federal regulations may apply. Before construction make sure you have the appropriate permits.

## LOCAL ORDINANCES

Check with your county, city, village, or town for any local erosion control ordinances including shoreland zoning requirements. Except for new 1- & 2-family dwellings, local ordinances may be more strict than state regulations. They may also require erosion control on construction projects not affected by state or federal regulations.

## UNIFORM DWELLING CODE (DEPT. OF COMMERCE)

### CONTROLS REQUIRED

- Silt fences, straw bales, or other approved perimeter measures along downslope sides and side slopes.
- Access drive.
- Straw bales, filter fabric fences or other barriers to protect on-site sewer inlets.
- Additional controls if needed for steep slopes or other special conditions.

### FOR MORE INFORMATION, CONTACT:

- Local building inspector
- Department of Commerce, Safety and Buildings Division, P.O. Box 7970, Madison, Wis. 53707-7970, (608) 267-5113.

## STORMWATER PERMIT (DEPT. OF NATURAL RESOURCES)

### CONTROLS REQUIRED

- Erosion control measures specified in the *Wisconsin Construction Site Best Management Practice Handbook*.
- Measures to control storm water after construction.

### FOR MORE INFORMATION, CONTACT

- Department of Natural Resources, Storm Water Permits, P.O. 7921, Madison, WI 53707-7921, (608) 267-7694.

For more assistance on plan preparation, refer to the Wisconsin Uniform Dwelling Code, the DNR *Wisconsin Construction Site Best Management Handbook*, and UW-Extension publication *Erosion Control for Home Builders*. The *Wisconsin Uniform Dwelling Code* and the *Wisconsin Construction Site Best Management Handbook* are available through the State of Wisconsin Document Sales, (608) 266-3358.

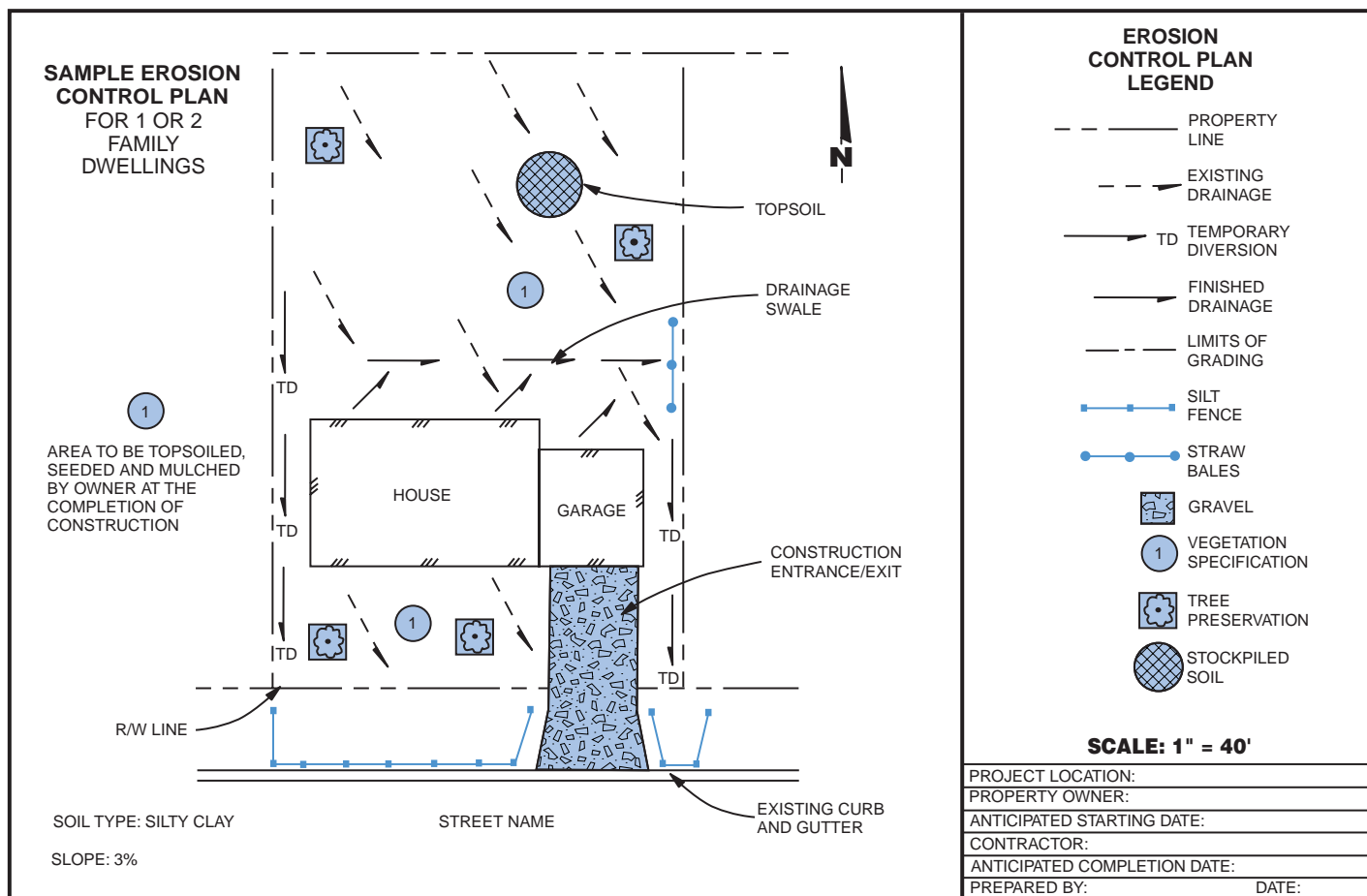
*Erosion Control for Home Builders* (GWQ001) can be ordered through Extension Publications, (608) 262-3346 or the Department of Commerce, (608) 267-4405. A PDF version of *Erosion Control for Home Builders* (GWQ001) and *Standard Erosion Control Plan* are also available at <http://clean-water.uwex.edu/pubs/sheets>

This publication is available from county UW-Extension offices or from Extension Publications, 45 N. Charter St., Madison, WI 53715. (608) 262-3346 or toll-free (877) 947-7827. A publication of the University of Wisconsin-Extension in cooperation with the Wisconsin Department of Natural Resources and the Wisconsin Department of Commerce.



©1999 by the Board of Regents of the University of Wisconsin System. Send inquiries about copyright permission to: Cooperative Extension Publications, 432 North Lake Street, Madison, WI 53706. University of Wisconsin-Extension is an EEO/Affirmative Action employer and provides equal opportunities in employment and programming, including Title IX and ADA requirements.





## Sodding

- Spread four to six inches of topsoil.
- Fertilize and lime if needed according to soil test (or apply 10 lb./1000 sq. ft. of 10-10-10 fertilizer).
- Lightly water the soil.
- Lay sod. Tamp or roll lightly.
- On slopes, lay sod starting at the bottom and work toward the top. Laying in a brickwork pattern. Peg each piece down in several places.
- Initial watering should wet soil six inches deep (or until water stands one inch deep in a straight-sided container). Then water lightly every day or two to keep soil moist but not saturated for two weeks.
- Generally, the best times to sod and seed are early fall (Aug. 15-Sept. 15) or spring (May). If construction is completed after September 15, final seeding should be delayed. Sod may be laid until November 1. Temporary seed (such as rye or winter wheat) may be planted until October 15.

Mulch or matting may be applied after October 15, if weather permits. Straw bale or silt fences must be maintained until final seeding or sodding is completed in spring (by June 1).

## Concrete Wash Water

- Dispose of concrete wash water in an area of soil away from surface waters where soil can act as a filter or evaporate the water. Dispose of remaining cement. Be aware that this water can kill vegetation.

## De-Watering

- Dispose of de-watering water in a pervious area. Prevent the discharge of sediment from de-watering operations into storm sewers and surface waters.

## Material Storage

- Manage chemicals, materials and other compounds to avoid contamination of runoff.

## Typical Lawn Seed Mixtures

Grass	Percent by Weight	
	Sunny Site	Shady Site
Kentucky bluegrass	65%	15%
Fine fescue	20%	70%
Perennial ryegrass	15%	15%
Seeding rate (lb./1000 sq. ft.)	3-4	4-5

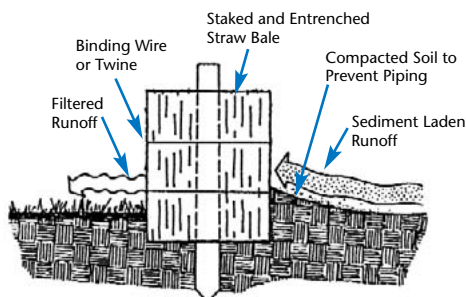
Source: R.C. Newman, Lawn Establishment, UW-Extension, 1988.



## COMMONLY USED EROSION CONTROLS

### Straw Bale Fences

#### Cross Section of Straw Bale Installation



Source: Michigan Soil Erosion and Sedimentation Control Guidebook, 1975.

#### How to Install a Straw Bale Fence



1. Excavate a 4" deep trench.



2. Place bales in trench with bindings around sides away from the ground. Leave no gaps between bales.



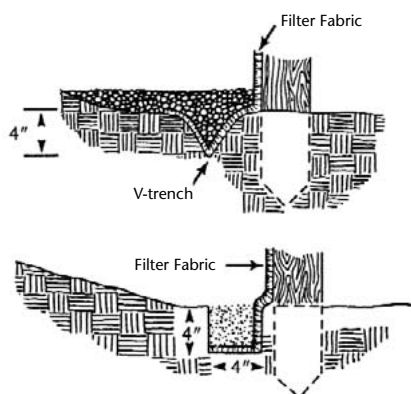
3. Anchor bales using two steel rebars or 2" x 2" wood stakes per bale. Drive stakes into the ground at least 8".



4. Backfill and compact the excavated soil.

### Silt Fences

#### Cross Sections of Trenches for Silt Fences

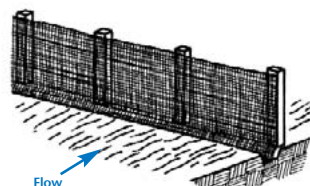


Sources: North Carolina Erosion and Sediment Control Planning and Design Manual, 1988.

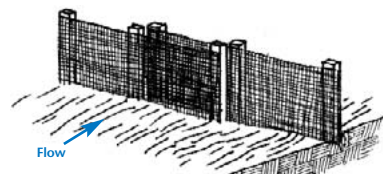
#### How to Install a Silt Fence



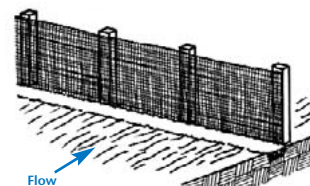
1. Excavate a 4" x 4" trench along the contour.



2. Stake the silt fence on downslope side of trench. Extended 8" of fabric into the trench.



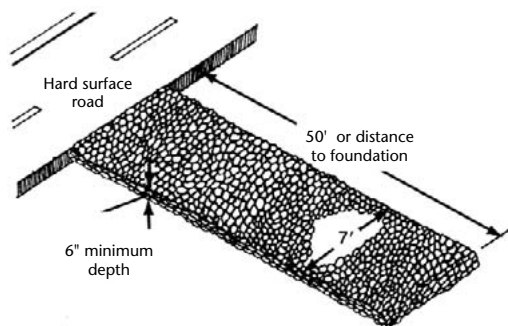
3. When joints are necessary, overlap ends for the distance between two stakes.



4. Backfill and compact the excavated soil.

### Access Drive

#### How to Install an Access Drive



1. Install as soon as possible after start of grading.
2. Use two-to-three-inch aggregate stone.
3. Drive must be at least seven feet wide and 50 feet long or the distance to the foundation, whichever is less.
4. Replace as needed to maintain six-inch depth.

This publication is available from county UW-Extension offices or from Extension Publications, 630 W. Mifflin St., Madison, WI 53703. (608) 262-3346.

A publication of the University of Wisconsin-Extension in cooperation with the Wisconsin Department of Natural Resources.

Author: Carolyn Johnson, UW-Extension.

©1999 by the Board of Regents of the University of Wisconsin System. Send inquiries about copyright permission to: Cooperative Extension Publications, 432 N. Lake St., Madison, WI 53706. University of Wisconsin-Extension is an EEO/Affirmative Action employer and provides equal opportunities in employment and programming, including Title IX and ADA requirements.

Editing and design by the  
Environmental Resources Center,  
University of Wisconsin-Extension.



Printed on  
recycled paper

GWQ001 Erosion Control for  
Home Builders

DNR WT-457-96

R-1-00-10M-25-S

**UW**  
**Extension**

