Specifications

Construction Entrance

Rant of May Dwnskii

50 ft (cm 30 ft for Access to Individual House Lot)

- 1 Inlet protection shall be constructed either before upslope lend disturbence begins or
- 2 The wooden frame is to be constructed of 2-by-4-in construction-grade lumber. The end spacers shall be a minimum of T ft beyond both ends of the threat opening The anchors shall be nailed to 2-hy-4-in stakes driven on the opposite side of the
- 3 The wire mesh shall be of sufficient strongth to support fabric and stone. It shall be a continuous piece with a minimum width of 30 in and 4 ft longer than the throat length of the miet, 2 ft on each aide

PLAN YIEW

Stona Size-Two-inch stone shall be used,

Length-The construction entrance shall be

as long as required to stabilize high traffic

areas but not less than 50 ft (except on

single residence let where a 30-ft minimum

3 Thickness--The stone layer shall be at least

pointa where ingress or egress occurs

Width-The entrance shall be at least 10 ft

- Redding-A geotextle shall be placed over

the entire cres prior to placing stone it

shall have a Grab Tensile Strength of a

least 200 lb and a Mullen Burst Strength of

Culvert--A pipe or culvert sha'l be

constructed under the entrance if needed to

prevent surface water flowing across the

entrance from being directed out ento-

wide, but not less than the full width at

8 in thick

at least 190 lb

payed surfaces

Of Memory and the Loss Than Noth of commo Terror

- 4 Geotextile cloth shall have an equivalent opening size (EOS) of 20-40 slave and be resistent to sunlight. It shall be at least the
- 5 The wire mesh and geotextile cloth shall be formed to the concrete gutter and egainst the face of the curb on both sides of the infot and securely festened to the 2-by-4-in
- 8 Two-inch stone shall be placed over the wire mesh and geotextile in such a menner as to prevent water from entering the inlet under or around the geotexnie cloth

Road or Other Existing Paved Surface

7 Water Bar-A water bar shall be constructed

entrance and out onto paved surfaces

8 Maintenance--Top dressing of additional

as part of the construction entrance if

needed to prevent surface runoff from

flowing the length of the construction

atono sha'l be applied as conditions

demand. Mud spilled, dropped, washed or

tracked onto pubbe roads, or any surface

where runoff is not checked by eadment

controls, shall be removed immediately

9 Construction entrences shall not be relied

restricted from muddy cross

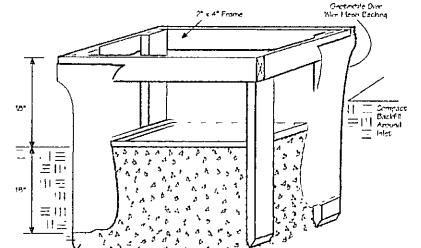
Removal shall be accomplished by screping

upon to remove mud from vehicles and

prevent off-site tracking. Vehicles that enter

and leave the construction-are shall be

# Specifications Inlet Protection in Swales, Ditch Lines or Yard Inlets



Specifications

Sift Fence

Level Centeur No Slope

ELEVATION

- But Shipe in Front of Conver ----

un∈

FLO:V

- Infet protection shall be constructed either bafore upslope land disturbance begins or
- The earth ground the inlet shall be excavated completely to a depth at least 18
- 3 The wooden frame shall be constructed of 2-by-4-m construction-grade lumber. The 2-by-4-in posts shall be driven 1 ft into the ground at four corners of the inlet and the top pertion of 2-by-4-in frame assembled using the overlap joint shown The top of the frame shall be at least 8 in below adjacent roads if ponded water would pose a safety hazard to traffic
- Wire mesh shall be of sufficient strength to support fabric with water fully impounded against it. It shall be stratched tightly around the frame and fastened securely to

SECTION

of Bilt Frace

5 Gootextile shall have an aguivalent opening size of 20-40 slave and be resistant to sunlight. It shall be stretched tightly around

fastened to the same post

6 Backfill shall be placed around the inlet m compacted 8-in Tayors until the earth is even with notch elevation on ends and top elevation on sides

the frame and featened securely. It shall

extend from the top of the frame to 18 in

below the inlet notch elevation. The

geotextile shall everless across one side of

the inlet so the ends of the cloth are not

A compacted earth dike or a check dam shall be constructed in the ditch line below the injet if the injet is not in a degreesion. and if runoff bypassing the inlet will not flow to a sottling pand. The top of certif idikes shall be at least 6 in higher than the top of the frame

= 10

THE HER

401 -- 411 --

11-m=

## Specifications Permanent Seeding

#### SITE PREPARATION

- A subsoiler, play or other implement shall be used to reduce soil compection and ellow maximum infiltration (Maximizing infiltration will help control both runoff rate and writer quality ) Subsoiling should be dona when the soil moisture is low enough to allow the soil to crack or fracture Subsorling shall not be done on slip-grone areas where soil preparation should be limited to what is necessary for establishing
- 2. The site shall be graded as needed to permit the use of conventional equipment for seedbed proporation and seeding
- 3 Resoil chall be applied where needed to establish vegatation

#### SEEDOED PREPARATION

- Lime-Agricultural ground limestone shall be applied to acid soil as recommended by a soil test. In lieu of a soil test, lime shell be applied at the rate of 100 fb /1,000 sq. ft.
- Fortilizer-Fertilizer shall be applied as recommended by a soil test. In lieu of a soil test, fertilizer shall be applied at a rate of 12 lb/1,000 sq ft or 500 lb/ac of 10-10-10 or 12-12-12 analysis
- The time and fertilizer shall be worked into the sed with a disk herrow, spring-tooth harrow, or other suitable field implement to a death of 3 in. On sloping land the soil shell be worked on the contour

#### SEEDING DATES AND SOIL CONDITIONS

Seeding should be done March 1 to May 31 or Aug 1 to September 30. These seeding dates are ideal but, with the use of additional mulch and irrigation, seedings may be made any time throughout the growing season - Tilinge/seedbed preparation should be done when the soil is dry enough to crumble and not form ribbons when compressed by hand. For winter seeding, see the following section on dormant seeding

#### DORMANT SEEDINGS

- Seedings shall not be planted from October 1 through November 20. Dunno this period the seeds are likely to germinate but probably will not be able to survive the
- The following methods may be used for
- From October 1 through November 20, prepare the seedbed, add the required amounts of time and fertilizer, then mulch and anchor. After November 20. and bafora March 15, broadcast the selected seed mixture increase the seeding rates by 50% for this type of
- From November 20 through Merch 15, when soil conditions permit, prepare the seedbed, lime and fertilize, apply the selected seed mixture, mulch and anchor Increase the seeding rates by 50% for this type of seeding
- Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder, or hydro-seeder (slurry may include seed and fertilizer) on a firm, moist seedbed

#### cultipacker type seeder in used, the seedhed should be firmed following seeding operations with a cultipacker, roller, or light dreg. On aloping land, seeding operations should be on the contour where feesible

Where feasible, except when a

#### MULCHING

Mulch material shall be applied immediately after seeding Seedings made during optimum seeding dates and with favorable soil conditions and on very flat areas may not need mulch to achieve adequate stabilization. Dormant seeding shall be mulched

#### 2 Materials

- Strow-If strow is used it sha'l be unrotted small-grain straw applied at the rate of 2 tons/se, or 90 lb /1 000 sq ft (two to three bales). The mulch shell be spread uniformly by hand or mechanically so the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000-sq-ft sections and aproad two 45-lb bales of straw in
- Hydroseeders- if wood cellulose fiber is used, it shall be used at 2,000 lb /ac or 46 lb /1,000 sq. ft
- Other-Other acceptable mulches include mulch mattings explied according to manufacturer's recommendations or wood chips applied at 6 tons/ec

#### Straw Mulch Anchoring Methods

Straw mulch shall be anchored immediately to minimize less by wind or water

- Mechanical--A disk, crimper, or similar type tool shall be set streight to punch or eachor the mulch material into the soil. Straw mechanically enchored shell not be finely chopped but, generally, be left longer than 0 in
- Mulch Nettings-Nettings shall be used according to the manufacturer's recommendations. Netting may be necessery to hold mulch in place in areas of concentrated runoff and ori
- Asphalt Emulsion--Asphalt shall be eprited as recommended by the manufacturer or at the rate of 160
- Synthetic Einders-Synthetic binders such as Acrylic DLR (Agri-Tric), DCA-70, Petroset, Terra Teck or equal may be used at rates recommended by the
- Wood Collulose Fiber-Wood cellulose fiber binder shall be applied at a net dry weight of 750 lb/sc. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lb /100 gal of wood cellulose fiber

#### INDICATION

- Permanent ededing shall include irrigation to establish vegetation during dry or hot weather or on adverse site conditions as needed for adequate moisture for seed ermination and plant growth
- 2 Excessive impation rates shall be avoided and irrigation monitored to prevent erosion and damage from runoff

Seed Mix	Seeding Note		
	fb /ac	16 /1,000ft <sup>2</sup>	Notes
		General Use	
Creeping Red Fessua	20-40	<b>%-1</b>	
Domestic Ryegrass Kentucky Eluegrass	10-20 10 20	%-% %-%	
Tell Fescue	40	1	
Dwarf Fescue	40	1	
	Steep E	lanks or Cut Slope	23
Tell Fescue	40	1	_
Crown Vetch	10	<b>%</b>	Do not seed later than August
Tall Fescus	20	',	
Flat Pea Tell Fescus	20 20	У3 У3	Do not seed later than Augus
		Ditches and Swale	3
Tall Fescuo	40	1	
Dwarf Fescue	90	214	
Kentucky Eluegrass	5		
		Lawns	- at and a second
Kentucky Eluegrass	60	1 1/2	igh. ↑
Peronnial Ryegrass	60	1 1/2	
Kentucky Bluegrass	60	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	For straded cross
Creeping Red Fescus	60	1 1%	

# EROSION CONTROL DETAILS

# foresigns Engineering Group

440 286-1034 fax 320 Center Street, Unit F Chardon, Ohio 44024

SCALE: NONE

Page: 2/2

#### Small Lot Building Sites

- 1 Presxisting vegetation shall be retained on idle portions of the building lot for as long es construction operations allow. Cleaning shall be done so only active working areas.
- 2 Temporary seed (annual rya, oats, etc.) and/or mulch shall be applied to areas, such es stockpiles, that are bere end not ectively being worked. This shall apply to areas that will not be reworked for 14 days or more
- 3 Stockpiles excavated from besements shall be cituated away from streets, sweles, or other waterways and shall be seeded
- 4 Silt fence shall control sheet flow runoff from the building lot it shall not be constructed an channels or areas of concentrated flow. Other sedment controls such as inlet protection and sediment treps shall also he used as needed to control sedament runoff
- Construction vehicle access shall be limited to one route, to the greatest extent practical. The access shall be gravel or crushed rock applied to the driveway crea
- Mud tracked onto the street or sediment settled around curb inlet protection shall be removed daily or as needed to prevent it from accumulating. It shall be removed by shavelling and screping and shall NOT be washed off paved surfaces or into storm

# Specifications Temporary Seeding

#### Temporary Seeding Species Selection Lb /1,000 ft 2 Seeding Dates Species Per Ac March 1 to August 15 4 bushel Tell Fescue 40 lb Annual Ryegrass 40 lb Perennial Ryegrass 40 lb Tall Fescue Annual Ryegras 40 15 August 18 to November 1 2 bushel Rye Tall Fescue 40 15 40 lb Annual Ryegrass 2 bushel Ta'l Fascus 40 lb Annual Ryegress 40 lb Perennial Ryegres Ta'l Fescue Annual Ryograss 40 lb November 1 to Spring Seeding | Use mulch only, sedding practices or domaint seeding

1 Structural crosson- and sediment-control practices such as diversions and sediment trops shall be installed and stabilized with temporary seeding prior to grading the rest of the construction-site

Mote. Other approved seed spaces may be substituted

- 2 Temporary seed shall be applied between construction operations on soil that will not bå graded or reworked for 45 days or more These idle areas should be seeded as soon as possible after grading or shall be seeded within 7 days. Soveral applications of temporary seeding are necessary on typical construction projects
- 3 The seedbed should be pulverized and loose to ensure the success of establishing vagetation Hawaver, temporary saeding shall not be postponed if ideal seadbe preparation is not possible.
- Soil Amendments--Applications of temporary vegetation shall establish adequate stands of vegetation which may require the use of soil amendments. Soil tests should be taken on the site to predict the need for time and fortifizer
- 5 Seeding Method-Seed shall be applied umformly with a cyclone seeder, drill, cuttipacker seeder, or hydroseeder. When feasible, seed that has been bloadcast shall be covered by raking or dragging and then lightly temped into place using a roller or cultipacker If hydroseeding is used, the seed end fertilizer will be mixed on-site and the seeding shall be done immediately and without interruption

## MULCHING TEMPORARY SEEDING

1 Applications of temporary seeding shall include mulch which shall be applied during or immediately after seeding Seedings made during optimum seeding dates and with favorable soil conditions end on very flat crees may not need mulch to echieve rdequitte stabilization

# 2 Materials

 Straw-II straw is used, it shall be unrotted small-grain straw applied at the rate of 2 tens/ac or 90 lb /1,000

sa it itwo to three bales). The mulch shall be spread uniformly by hand or mechanically so the soil surface is cavered For uniform distribution of hand spread mulch, divide area into approximately 1,000-eq -ft sections and aproad two 45-lb bales of straw in each section

- Hydroseeders-If wood cellulose fiber is used, it shall be used at 2,000 fb /cc or 46 lb /1,000 sq. ft
- Other--Other acceptable mulches include mulch, mattings applied according to manufacturer's dations or wood chips pplied at 0 tons/ea
- 3 Straw mulch shall be anchored immediately to minimize less by wind or water
- Mechanical-A disk, crimper, or similar type tool shall be set streight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but, generally, be left longer than 6 in
- Mulch Nottings-Nettings shall be used according to the manufacturer's recommendations. Notting may be necessary to hold mulch in place in areas of concentration runoff and on entical slopes
- Asphalt Emulsion--Asphalt shall be applied as recommended by the menufacturer or at the rate of 160 get /ac
- Synthetic Binders-Synthetic binders such as Acrylic DLR (Agn-Toc), DCA-70, Petroset, Terra Tack or equal may he used at rates recommended by the manufacturer
- A Wood-Cellulana Fiber--Wood-cellulasa filter binder shall be applied at a not dry weight of 750 lb /ac. The woodcellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lb /100 gel