- Inlet protection shall be constructed either before upstope land disturbance begins or before the storm drain becomes operational
- The wooden frame is to be constructed of 2-by-4-in construction-grade lumber The end specers shall be a minimum of 1 ft beyond both ends of the threat opening The anchors shall be nailed to 2-by-4-in stakes driven on the opposite side of the
- 3 The wire mesh shall be of sufficient strength 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 injet, 2 ft on each side

SECTION

Specifications

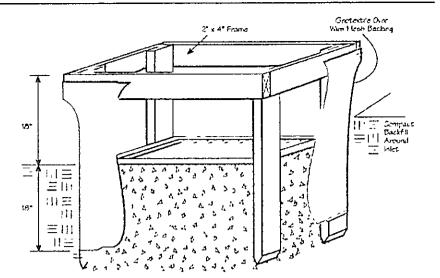
Construction Entrance

Runt of Way Diversit

50 ft. (or 30 ft. for Access to Individual House Lot)

- 4 Geotextile cloth shall have an unvalent opening size (EOS) of 20-40 siev and be resistent to sunlight it shall be a least the
- 5 The wire mesh and geotextile clo shall be formed to the concrete gutter ar against the face of the curb on both as a of the inlet and securely festened to the by-4-in
- 6 Two inch stone shall be placed over the wire mesh and geotextile in such - manner as to prevent water from enterin, the inlet under or around the geotextile cl. h

Inlet Protection in Swales, Ditch Lines or Yard Inlets

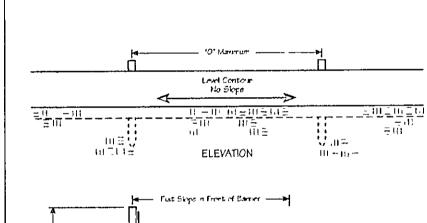


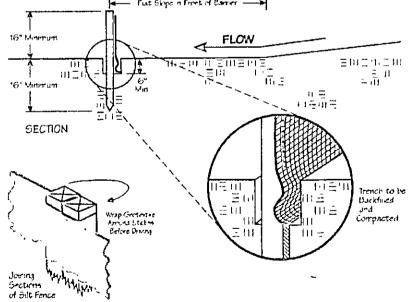
- Inlet protection shall be constructed either before upstage land disturbance begins or
- 2 The earth around the inlet shall be excavated completely to a depth at least 18
- 3 The wooden frame shall be constructed of 2-by-4-in construction-grade lumber The 2-by-4-in posts shall be driven 1 ft into the ground at four corners of the inlet and the top portion of 2-by-4-in frame assembled using the overlap joint shown The top of the freme shall be at least 8 in below adjacent roads if pended water would pose a safety hazard to traffic
- 4 Wire mesh shall be of sufficient strength to support febric with water fully impounded against it. It shall be stretched tightly around the frame and fastened securely to
- Geotexble shall have an equivalent opening size of 20-40 slave and be resistant to sunlight. It shall be stretched tightly around the frame and fastened securely it shall extend from the top of the frame to 18 in below the inlet notch elevation. Th geotextile shall everlop across one side of the inlet so the ends of the cloth are not fastened to the same post
- Backfill shall be placed around the inlet in compacted 8-in layers until the earth is even with notch elevation on ends and top
- A compacted earth dike or a check dam shall be constructed in the ditch line below the inlet if the inlet is not in a depression and if runoff bypassing the inlet will not flow to a settling pond. The top of earth idikes shall be at least 6 in higher than the

= 10

Specifications

Silt Fence





Stone Size-Two-inch stone shall be used,

PLAN VIEW

PROFILE

- 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 lot where a 30-ft minimum
- Thickness--The stone layer shall be at least
- Width--The entrance shall be at least 10 ft wide, but not less than the full width at points where ingress or egress occurs
- 5 Bedding-A geotextile shall be placed ove the entire crea prior to placing stone it least 200 lb and a Mullen Burst Strength of at least 190 lb
- 8 Culvert--A pipe or culvert shall be constructed under the entrance if needed to prevent surface water flowing across the entrance from being directed out onto

Water Ber-A water bar shall be constructed as part of the construction er rance if needed to prevent surface rul If from flowing the length of the co truction entrance and out onto paved sur ces

- Cultert as Needed

Road or Other Existing

Paved Surface

- 8 Maintenance--Top dressing of Iditional stone shall be applied as andrions demand. Mud spilled, dropped, v. ished or tracked onto public roads, or at surface where runoff is not checked by ediment controls, shall be removed imitediately Removal shall be accomplished b. screping
- Construction entrances shell not us relied upon to remove mud from yet les and prevent off-site tracking. Vehicles list enter restricted from muddy areas

Specifications Permanent Seeding

SITE PREPARATION

- A subsoiler, plow or other implement shell be used to reduce soil compection and allow maximum infiltration. (Maximizing infiltration will help control both runoff rate and water quality) Subspiling should be done when the soil moisture is low enough to allow the soil to crack or fracture Subsoiting shall not be done on slip-prone areas where soil preparation should be limited to what is necessary for establishing
- 2. The site she'll be graded as needed to permit the use of conventional equipment for seedbed preparation and seeding
- 3 Resoil shall be applied where needed to establish vegetation

SEEDDED PREPARATION

- Lime-Agricultural ground limestone shall be applied to acid soil as recommended by a soil test. In fieu of a soil test, lime shall be applied at the rate of 100 lb /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 soil with a disk horrow, spring-tooth harrow, or other suitable field implement to a depth of 3 in. On sloping land the soil shall 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 - Tillage/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. During this period the seeds are likely to perminate but probably will not be able to survive the
- The following methods may be used for Dermant Seeding
- From October 1 through November 20. prepare the seedbed, edd the required amounts of lime and fertilizer, then mulch and anchor. After November 20, and before Merch 15, broadcast the selected seed mixture increase the seeding rates by 50% for this type of
- From November 20 through March 15, when soil conditions permit, propare the seedbed, lime and fertilize, apply the selected seed mixture, mulch and enchor. 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 spedbed

Where feasible, except when a cultipacker type seeder is used, the seedbed should be firmed following seeding operations with a cultipacker, roller, or light dreg. On stoping land, seeding operations should be on the contour where feasible

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

2 Moterials

- Straw-If straw is used it shall be unrotted small-grain straw applied at the rate of 2 tons/sc or 90 lb /1,000 sq ft (two to three bales). The mulch shall 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 apread 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 epplied according to manufacturer's recommendations or wood chips applied at 6 tons/ac

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 straight 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 Netting may be necessary to hold mulch in place in areas of concentrated runoff and ori
- Asphalt Emulsion--Asphalt shall be applied as recommended by the manufacturer or at the rate of 160 gel /ac
- Synthetic Binders--Synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petroset, Terra Tack or equal may be used at rates recommended by the
- Wood Cellulose Fiber-Wood cellulose fiber binder shall be applied at a net dry weight of 750 lb/ac. The wood cellulose fiber shall be mixed with water and the mixture shell contain a maximum of 50 lb /100 get of wood cellulose fiber

IRRIGATION

- Permanent seeding shall include irrigation to establish vegetation during dry or hot weather or on adverse site conditions as needed for adequate moisture for seed thworg trief bns notionimes
- 2 Excessive irrigation rates shall be avoided and irrigation monitored to prevent erasion and damage from runoff

	Perr	nanent Seeding	· · · · · · · · · · · · · · · · · · ·	
	Seeding Rata			
Seed Mix	lb /ac lb /1,000ft ²		Notes	
		General Use		
Creeping Red Fescus	20-40	14-1		
Domestic Ryegrass Kentucky Bluegrass	10-20 10-20	% - % % - %		
Tell Fescue	40	1		
Dwarf Fescue	40	1		
	Steep B	anks or Cut Slope	28	
Tall Fescus	40	1		
Crown Vetch	10	у.	Do not seed later than Augus	
Tall Fescue	20	7,		
Flat Poo	20	У.	Do not seed later than Augus	
Tell Fescue	20	35		
	Road D	htches and Swale	5	
Tall Fescuo	40	1		
Dwarf Fescus Kentucky Eluograss	90 5	2%		
		Lawns		
Kentucky Bluegrass	60	1 1/2	-	
Perennial Ryegross	60	1 1/2		
Kentucky Bluegrass Creeping Red Fescue	60 60	1 1/5	For shaded creas	
creeping non reacon	1	1	<u> </u>	

EROSION CONTROL DETAILS

440 286-1010 440 286-1034 fax 320 Center Street, Unit F

Chardon, Ohio 44024

SCALE: NONE

Page: 2/2

Specifications

Small Lot Building Sites

- 1 Presxisting vegetation shall be retained on idle portions of the building lot for as long as construction operations allow Clearing shall be done so only active working areas
- 2 Temporary seed (annual rye, oats, etc.) and/or mulch shall be applied to areas, such as stockpiles, that are bare and not actively being worked. This shall apply to areas that will not be reworked for 14 days or more
- 3 Stockpiles excavated from basements shall be situated away from streets, swales, or other waterways and shall be seeded and/or mulched
- 4 Silt fence shall control sheet flow runof from the building for it shall not be constructed in channels or areas of concentrated flow. Other sediment controls such as inlet protection and sediment traps she'll also be used as needed to control
- 5 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 erea
- 6 Mud tracked onto the street or sediment settled around curb intet protection shell be removed daily or as needed to prevent it from accumulating. It shall be removed by shovelling and screping and shall NOT be washed off paved surfaces or into storm

Specifications Temporary Seeding

Seeding Dates	Species	Lb /1,000 ft ²	Per Ac
March 1 to August 15	Onts	3	4 bushel
	Tall Fescue	1	40 lb
	Annual Ryegrass	1	40 lb
	Perennial Ryegrass Tall Fescue Annual Ryegrass	1 1 1	40 lb 40 lb 40 lb
August 16 to November 1	Rye	3	2 bushel
	Tall Fescue	1	40 lb
	Annual Ryegrass	1	40 lb
	Wheat	3	2 bushet
	Tall Fescue	1	40 lb
	Annual Ryegrass	1	40 lb
,	Perennial Ryegrass Tall Fescus Annual Ryegrass	1 1	40 lb 40 lb

1 Structural crosion- and sediment-control practices such as diversions and sediment treps shell be instelled end stabilized with temporary seeding prior to grading the rest of the construction-site

Note. Other approved seed species may be substituted

- 2 Temporary seed shall be applied between construction operations on soil that will not be graded or reworked for 45 days or more These idle crees should be seeded as soon as possible after grading or shall be seeded within 7 days. Several applications of temporary seeding are necessary on typical construction projects
- 3 The seedbed should be pulvetized and loose to ensure the success of establishing vegetation. However, temporery seeding shall not be postponed if ideal seedbed preparation is not possible
- 4 Soil Amandments--Applications of temporary vegetation shall establish adequate stands of vegetation which may require the use of soil emendments. Soil tests should be taken on the site to predict the need for time and fartilizer
- 6 Seeding Method-Seed shall be applied uniformly with a cyclone seeder, drill, cultipacker seeder, or hydroseeder. When feasible, seed that has been broadcast shall be covered by raking or dragging and then lightly temped into place using a roller or cultipacker If hydroseeding is used, the seed and fertilizer will be mixed on site and the seeding shall be done immediately and without interruption

MULCHING TEMPODARY STERMS

- 1 Applications of temporary seeding shall melude mulch which shall be applied during or immediately after seeding. Seedings. made during optimum seeding dates and with favorable soil conditions and on very flat erees may not need mulch to achieve adequate stabilization
- 2 Materials
 - Straw-if straw is used, it shall be unrotted small grain attaw applied at the rate of 2 tens/ac or 90 lb /1,000

- sq ft (two to three beles). The mulch shall be agreed 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 agreed two 45-lb belos of straw in each section
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