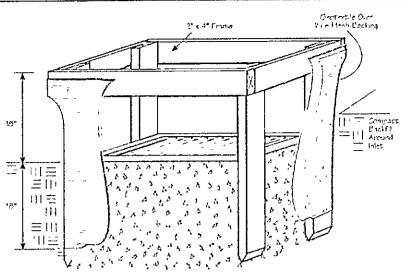
Specifications

Construction Entrance

50 ft (n= 30 ft (== Access to Individual Moune Lot)

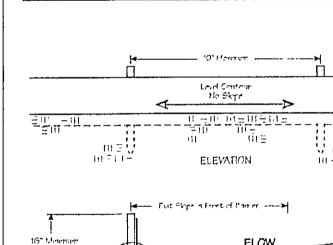
- Inlet protection shall be constructed either before upslope land disturbance begins or before the storm drain becomes operations
- 2 The wooden frame is to be constructed of 2-by-4 in construction-grade lumber. The end spacers shell be a minimum of 1 ft beyond both ends of the throat opening The anchors shall be nailed to 2-by-4-in stakes driven on the opposite side of the
- 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
- 4 Geotextile cloth shall have an equivalent opening size (EOS) of 20-40 sieve and be resistent to sunlight. It shall be at least the same size as the wire mesh
- 5 The wire mesh and geotextile cloth shall be formed to the concrete gutter and against the face of the curb on both sides of the inlet and securely fastened to the 2-by-4-in
- 6 Two inch stone shall be placed over the wire mesh and geotextile in such a manner es to prevent water from entering the inlet under or around the geotextile cloth

Inlet Protection in Swales, Ditch Lines or Yard Inlets



- inlet protection shall be constructed either before upslope land disturbance begins a before the storm drain becomes operational
- The earth around the infet shall be expanded completely to a depth at least 18
- 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 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 stretched tightly around the frame and fastened securely to
- 5 Geotextile shall have an equivalent opening size of 20 40 sieve 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. The geotextilo shall overlap 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
- 7. 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 infet will not flow to a settling pond. The top of earth dikes shall be at least 8 in higher than the top of the frame

Specifications Sift Fence



Stone Size-Two inch stone shall be used, or recycled concrete equivalent

PLAN YIEW

PROFILE

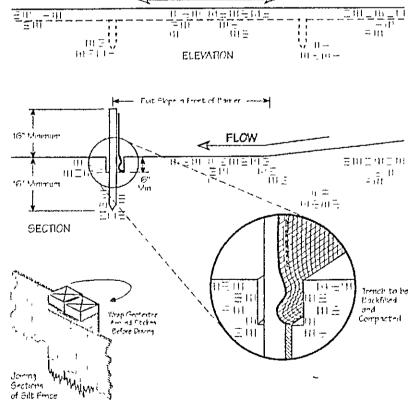
10 to Herman read Not Long Than Walth of Inguing Engine

- 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 tenath applies)
- 3 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
- Badding-A geotextile shall be placed over the entire area prior to placing stone It shall have a Grab Tensila Strongth of at enst 200 lb and a Mullen Burst Strength of at least 190 lb
- 8 Culvert--A pipe or culvert shall be prevent surface water flowing across the entrance from being directed out onto payed surfaces

7 Water Birr--A water bar shall be constructed as part of the construction entrence if needed to prevent surface runoff from flowing the length of the construction entrance and out onto paved surfaces

Pand or Other Existin Divid Surface

- Maintenance--Top dressing of additional stone shall be applied as conditions demand. Mud spilled, dropped, washed or tracked onto public roads, or any surface where runoff is not checked by sediment controls, shall be removed immediately Removal shall be accomplished by acroping
- 9 Construction entrances shall not be relied upon to remove mud from vehicles and prevent off-site tracking. Vehicles that enter and leave the construction site shall be



# Specifications Permanent Seeding

SITE PREPARATION

- A subsoiler, plaw or other implement shall be used to reduce soil compaction and allow maximum infiltration. (Maximizing infiltration will help control both runoff rate and water quality ) Subsorling should be done when the soil moisture is low enough to allow the soil to crack or fracture Subsoling shall not be done on slip-prono areas where soil preparation should be limited to what is necessary for astablishing
- 2. The site shall be graded as needed to permit the use of conventional equipment for spedbed preparation and seeding
- 3 Resoil shall be applied where needed to establish vegetation

SEEDBED PREPARATION

- Lime-Agricultural ground limestone shall be applied to acid soil as recommended by a soil test. In heu of a soil test, lime shall be applied at the rate of 100 lb /1,000 sq ft
- Fertilizer-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 fb /1,000 sq ft or 500 lb /ac of 10-10-10 or 12-12-12 analysis
- The time and fertifizer shall be worked into the soil with a disk harrow, spring-touth 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 dites are ideal but, with the use of ndditional mulch and irrigation, seedings may be made any time throughout the growing senson - Tillage/seedbed preparation should be done when the soil is dy enough to crumble and not form ribbons when compressed by hand For winter seeding, see the following section on

### DORMANT SEEDINGS

- Fram October 1 through November 20, prepare the seedbed, add the required amounts of time and fertilizer, then mulch and anchor. After November 20, and before March 15, breedcast the seeding rates by 50% for this type of
- From November 20 through March 15, when soil conditions permit, prepare the seedbed, lime and fertilize, apply the selected seed mixture, mulch and ancher Increase the reeding rates by
- Apply seed uniformly with a cyclone soeder, drill, cultipacker seeder, or hydro-seeder (slurry may include seed and fertilizer) on a firm, moist seedbed

- Shedings shall not be planted from October through November 20. During this period the seeds are likely to germinate but probably will not be able to survive the
- The following methods may be used for "Dormant Seeding"
- 50% for this type of seeding

### cultipacker type seeder is used, the seedbed should be firmed following seeding operations with a cultipacker roller, or light drag. On aloping land, seeding operations should be on the contour where feasible

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 seading shall be mulched

#### 2 Materials

- Straw-If straw is used it shall be unrotted small grain straw applied at the rate of 2 tons/ac or 90 lb /1.000 ag it (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 spread two 45 lb bales of straw in each section
- 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 applied according to manufacturer's recommendations or wood chips applied at 6 tens/ac
- Straw Mulch Anchoring Methods

Straw mulch shall be enchored immediately o minimize fees 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 shalf 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 arens of concentrated runoff and orf critical slopes
- Asphalt Emulsion -Asphalt shall be applied as recommended by the manufacturer or at the rate of 160
- Synthetic Einders--Synthetic binders such as Acrylic DLR (Agri-Tac), DCA 70, Petroset, Terra Tock or equal may be used at rates recommended by the
- Wood Callulara Fiber-Wood cellulara 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 shall contain a maximum of 50 lb /100 gal 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 diworp trialq bas noitanimier
- 2 Excessive irrigation rates shall be avoided and irrigation monitored to prevent crosion and damage from runoff

Seed Mix	Seeding Rate			
	lb /ac	15 /1,0001L 2	Nates	
		General Use	1	
Creeping Red Fascua Domestic Ryegrass Kentucky Bluegrass	20-40 10-20 10-20	35-1 34-35 34-35		
Tall Fescue	40	1		
Dwarf Fescue	40	1		
	Steep E	lanks or Cut Slope	28	
Tall Fescue	40	1	_	
Crown Vetch Tall Fescuo	10 20	½ %	Do not seed later than August	
Flat Pea Tall Fescus	20 20	)% 3%	Do not seed later than August	
	Road C	otches and Swale		
Tall Fescus	40	1		
Dwarf Fescue Kentucky Bluegrass	90 5	2 %		
and the state of t		Lawas		
Kentucky Bluegrass Perennial Ryegrass	60 60	1 ½ 1 ½		
Kentucky Bluograss Creeping Red Fescus	60 60	1 35 1 35	For shaded areas	

# EROSION CONTROL DETÂILS

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 Preexisting vegetation shall be retained on idle portions of the building lot for as long as construction operations allow. Cleaning 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
- from the building lot. It shall not be constructed in channels or press of concentrated flow. Other sediment controls such as inlet protection and sediment traps shall also be used as needed to control sediment runoff

4 Silt fence shall control sheet flow 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 area.
- 6 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 scraping and shall NOT be washed off paved surfaces or into storm drains

Specifications Temporary Seeding

Seeding Dates	Species	Lb /1,000 ft 2	Per Ac
March 1 to August 15	Oats	3	4 bushel
	Tall Fescue	1	40 lb
	Annual Ryegrass	1	40 15
	Perennial Ryegrass	1	40 lb
	Tall Fescue	1	40 lb
	Annual Ryegrass	1	40 lb
August 10 to November 1	Rye	3	2 bushel
	Tall Fescue	i	40 lb
	Annual Ryegrass	1	40 lb
	Wheat	3	2 bushel
	Tall Fescue	1	40 lb
	Annual Ryegrass	1	40 lb
	Perennial Ryagrass	1	40 tb
	Tall Fescue	1	40 lb
	Annual Ryegrass	1	40 tb

Structural crosion- and sediment-control prectices such as diversions and sediment traps shall be installed and stabilized with temporary sending 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 bé graded or reworked for 45 days or more These idle areas should be seeded as seen 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 pulverized and loose to ensure the success of establishing vegetation. However, temporary seeding shall not be postnamed if ideal seedbed preparation is not possible
- 4 Soil Amendments--Applications of 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 fertilizer
- 5 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 in used, the seed and fertilizer will be mixed on site and the sending 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 and on very flat areas may not need mulch to achieve adequate stabilization
- 2 Materials
  - Straw-If straw is used, it shall be unrotted small grain atraw applied at the rate of 2 tens/ac or 90 th /1,000

sq ft (two to three bales). The mulch shall be apread 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 spread two 45-lb bales of straw in each section

- Hydroseeders-If wood collulose 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 applied according to manufacturer's recommendations or wood chips applied at 6 tons/ac
- 3 Straw mulch shall be anchored imprediately to minimize loss by wind or water Anchoring Methods
- Mechanical--A disk, crimper, or similar type topi shall be set stroight 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 Nettings-Nettings shall be used according to the manufacturer's recommendations. Netting may be necessary to hold mulch in place in ereas of concentration runoff and on ( critical slopes
- Asphalt Emulsion--Asphalt shall be applied as recommended by the manufacturer or at the rate of 160 gal /ac
- Synthetic Binders--Synthetic binders such as Acrylic DLR (Agn-Tae), DCA-70, Petroset, Terra Tack or equal may be used at rates recommended by the manufacturer
- Wood-Cellulose Fiber--Wood cellulose fiber binder shall be applied at a not dry weight of 750 lb lac. The woodcellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lb /100 gal

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