

SITE PLAN
W. R. Martin
CLIENT
9030 Cabriolet Ave. Concord Ohio 44077
ADDRESS CITY STATE ZIP

59 SUBLOT No. **Ellison Creek** VOL. **39** PAGE **17**
4,5,6 LOT **3** TRACT **Concord** CITY **Ohio** STATE

Foresight Engineering Group
Engineers & Surveyors

440 286-1010
440 286-1034 fax
320 Center Street, Unit F
Chardon, Ohio 44024

SCALE : 1" = 40'	1	
FILE NAME: I:\Mar30410\SL59	2	
DATE : May 13, 2004	3	

BENCHMARK: SAS MH as shown

SHEET NO.
1/2

EROSION CONTROL DETAILS

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Page: 2/2

Specifications for Small Lot Building Sites

- Preexisting 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 are bare.
- 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.
- Stockpiles excavated from basements shall be situated away from streets, swales, or other waterways and shall be seeded and/or mulched.
- 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 shoveling and scraping and shall NOT be washed off paved surfaces or into storm drains.

Specifications for Temporary Seeding

Temporary Seeding Species Selection			
Seeding Dates	Species	Lb /1,000 ft ²	Per Ac
March 1 to August 15	Oats	3	4 bushel
	Tall Fescue - Annual Ryegrass	1	40 lb
		1	40 lb
	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	1	40 lb
	Annual Ryegrass	1	40 lb
	Wheat	3	2 bushel
	Tall Fescue	1	40 lb
	Annual Ryegrass	1	40 lb
November 1 to Spring Seeding	Use mulch only, sodding practices or dormant seeding		

Note: Other approved seed species may be substituted.

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 spread two 45-lb bales of straw in each section.

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

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 areas should be seeded as soon as possible after grading or shell 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 postponed if ideal seedbed preparation is not possible.

4. 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 lime and fertilizer.

5. Seeding Method—Seed shall be applied uniformly with a cyclone seeder, drill, cultipacker seeder, or hydro-seeder (slurry may include seed and fertilizer) on a firm, moist seedbed.

6. Mulching—Nettongs shall be used according to the manufacturer's recommendations. Nettong may be necessary to hold mulch in place in areas of concentrated runoff and on critical slopes.

7. Asphalt Emulsion—Asphalt shall be applied as recommended by the manufacturer or at the rate of 160 gal/acre.

8. Synthetic Binders—Synthetic binders such as Acrylic DLR (Agn-Tac), DCA-70, Petrosat, Terra Tack or equal may be used at rates recommended by the manufacturer.

9. Wood Cellulose Fiber—Wood cellulose fiber binder shall be applied at a net dry weight of 750 lb/acre. 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.

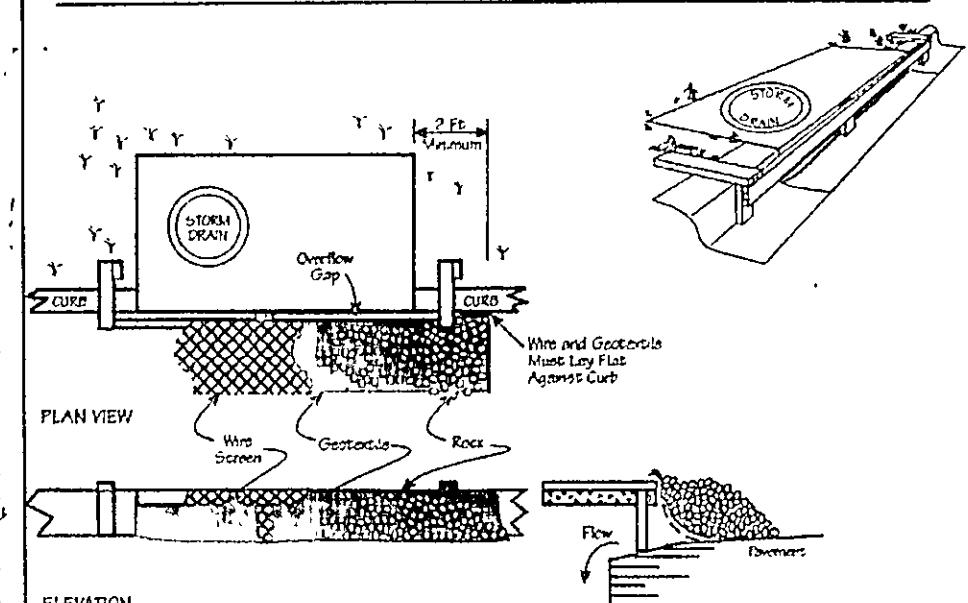
10. Irrigation—

1. Permanent Seeding

Seed Mix	Seeding Rate		Notes
	lb/ac	b /1,000ft ²	
General Use			
Creeping Red Fescus	20-40	1/2-1	
Domestic Ryegrass	10-20	1/2-1	
Kentucky Bluegrass			
Tall Fescue	40	1	
Dwarf Fescue	40	1	
Steep Banks or Cut Slopes			
Tall Fescue	40	1	
Crown Vetch	10	1/2	
Tall Fescue	20	1/2	Do not seed later than August
Flat Pea	20	1/2	
Tall Fescue	20	1/2	Do not seed later than August
Road Ditches and Swales			
Tall Fescue	40	1	
Dwarf Fescue	90	2%	
Kentucky Bluegrass	5		
Creeping Red Fescus			
Lawns			
Kentucky Bluegrass	60	1 1/2	
Perennial Ryegrass	60	1 1/2	
Kentucky Bluegrass	60	1 1/2	
Creeping Red Fescus	60	1 1/2	For shaded areas

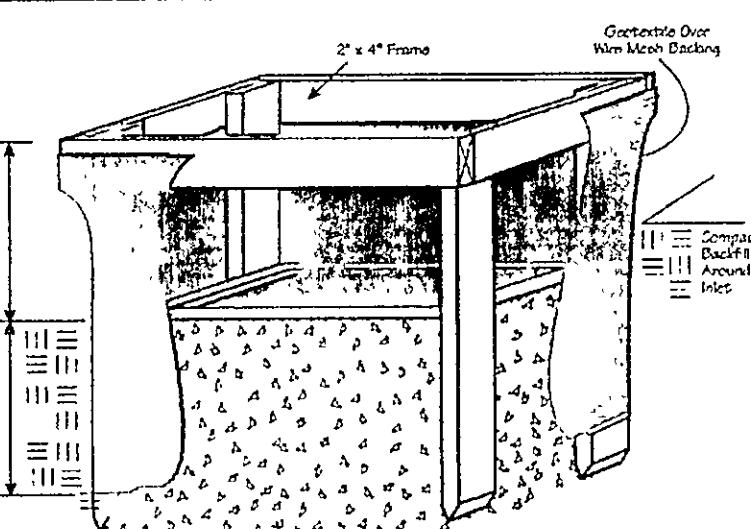
Note: Other approved seed species may be substituted.

Specifications for Curb Inlet Protection



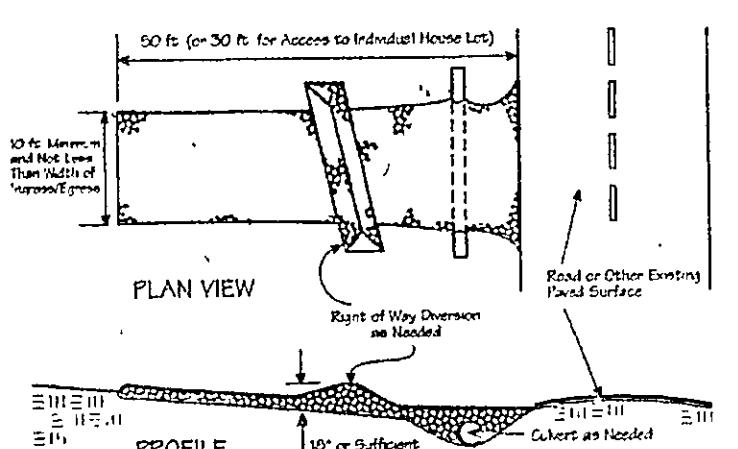
- Inlet protection shall be constructed either before up-slope land disturbance begins or before the storm drain becomes operational.
- The wooden frame is to be constructed of 2-by-4-in construction-grade lumber. The end spacers shall be a minimum of 1 ft beyond both ends of the throat opening. The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

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



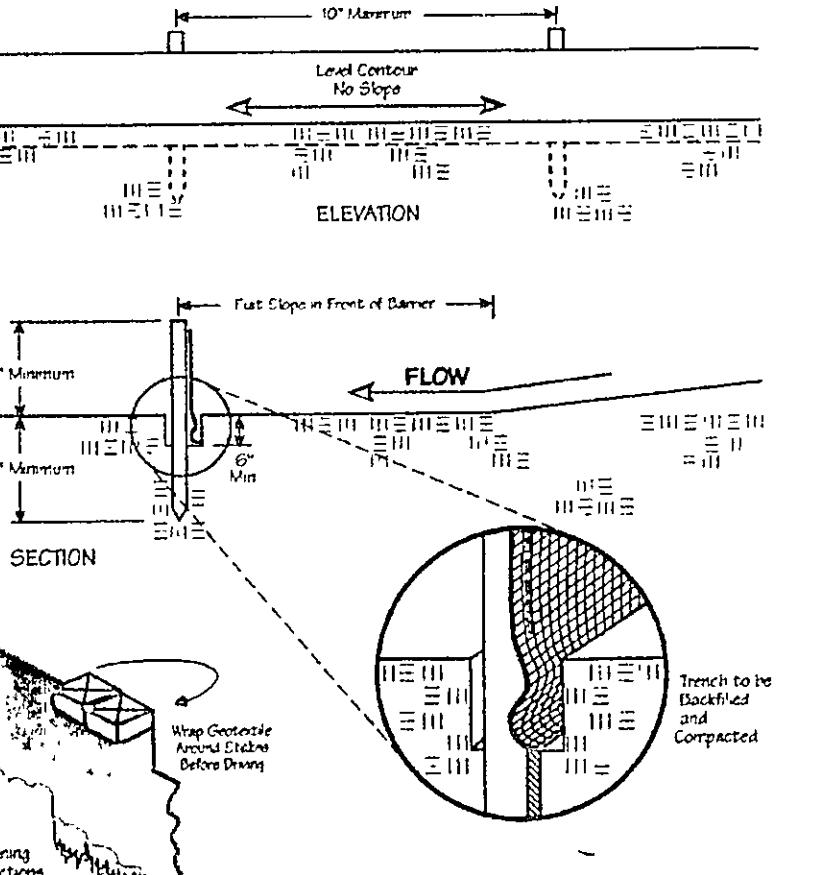
- Inlet protection shall be constructed either before up-slope land disturbance begins or before the storm drain becomes operational.
- The earth around the inlet shall be excavated completely to a depth at least 18 in.
- The wooden frame shall be constructed of 2-by-4-in construction-grade lumber. The 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 6 in below adjacent roads if ponded water would pose a safety hazard to traffic.
- Backfill shall be placed around the inlet in compacted 6-in layers until the earth is even with notch elevation on ends and top elevation on sides.
- 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 dikes shall be at least 6 in higher than the top of the frame.
- 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 the frame.

Specifications for Construction Entrance



- Stone Size—Two-inch stone shall be used, or recycled concrete equivalent.
- 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 length applies).
- Thickness—The stone layer shall be at least 6 in thick.
- Width—The entrance shall be at least 10 ft wide, but not less than the full width at points where ingress or egress occurs.
- Bonding—A geotextile shall be placed over the entire area prior to placing stone. It shall have a Grab Tensile Strength of at least 200 lb and a Mullen Durat Strength of at least 150 lb.
- Culvert—A pipe or culvert shell be constructed under the entrance if needed to prevent surface water flowing across the entrance from being directed onto paved surfaces.

Specifications for Silt Fence



- The following methods may be used for "Dormant Seeding":
- From October 1 through November 20, prepare the seedbed, add the required amounts of lime and fertilizer, then mulch and anchor. After November 20, and before March 15, broadcast the selected seed mixture. Increase the seeding rates by 50% for this type of seeding.
- From November 20 through March 15, when soil conditions permit, prepare the seedbed, lime and fertilizer, 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.

Specifications for Permanent Seeding

SITE PREPARATION

- Where feasible, except when a cultipacker type seeder is used, the seedbed should be formed following seeding operations with a cultipacker, roller, or light drag. On sloping 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 mulched.
- The site shall be graded as needed to permit the use of conventional equipment for seedbed preparation and seeding.

SEEDBED PREPARATION

- Lime—Agricultural limestone shall be applied to acid soil as recommended by a soil test. In lieu of a soil test, lime shall be applied at the rate of 100 lb/1,000 sq ft or 2 tons/acre.
- 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 lb/1,000 sq ft or 500 lb/acre of 10-10-10 or 12-12-12 analysis.

SEEDING DATES AND SOIL CONDITIONS

DORMANT SEEDING

IRRIGATION

MULCHING

TEMPORARY SEEDING

ANCHORING METHODS

PERMANENT SEEDING

IRRIGATION

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