General

Any sediment-laden groundwater encountered during construction shall be treated prior to discharge.

Ingress-Egress

A stone access drive complete with under lying geo—textilefabric for ingress and egress at the site shall be installed if there is not already an existing access drive. This drive shall be the only entrance and

Silt Fence All silt fence shall be installed prior to any earthwork activities at the site in the locations shown on the site plan as well as along the front of any lot that slopes towards the street. On sites where a perimeter of temporary seeding (or pre-existing vegetation) cannot be maintained due to limited space, a complete perimeter of slit fence shall be established.

Temporary Seeding Disturbed areas of the site that are to remain idle for more than twenty one (21) days shall be properly seeded and straw mulched within seven (7) days of seeded and straw muliched within seven (7) days of completion of initial grading. Temporary seeding and mulching of a thirty (30) foot strip of the entire front of the lot shall be maintained on the site once initial grading is complete.

Stabilization of critical areas within fifty (50) feet of any stream or wetland shall be complete within two (2) days of the disturbance if the site is to remain inactive for longer than fourteen (14) days.

Following completion of the construction activities, and the contractor leaving the site, the site soils must be fully stabilized by temporary seeding and/or mulching (or other acceptable process).

Mulching

Straw-mulch shall be applied at a rate of 1 bale per every ten (10) feet of curb, at a width of thirty (30) feet (or 1 bale/300 sqft.) of the entire length of the lot. Wood chips may also be used but must be spread at a minimum depth of four inches over the thirty-foot width and must be accompanied by a properly installed

silt fence.

Maintenance Erosion and sediment controls shall be inspected every seven (7) days or within 24 hours of a 0.5" or greater rainfall event. Necessary repairs shall be made at this

Note:

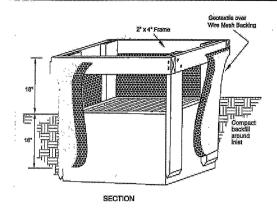
All erosion and sediment control specifications. applications, and timetables are based on the descriptions and standards of The Chio Department of Natural Resources Rainwater and Land Development

The specified erosion and sediment control standards are the general guidelines and shall not limit the right of the county to impose, at any time, additional, more stringent requirements. Nor shall the standards limit the right of the county to walve, in writing, individual requirements.

Inlet Protection Inlet protection shall be constructed before the storm drain becomes operational. The earth ground the inlet shall be excavated completly to a depth of at least 18 inches. The 2 by 4 inch frame shall be driven 1 foot into the ground and the top portion of the 2 by 4 inch frame assembled using the overlap joint shown (see diagram to right). The top of the frame shall be 6 inches below grade of adjacent road if ponded water would pose a safety hazard to traffic. Geotextile shall have an equivelent opening size of 20-40 inches below the inlet notch elevation. The geotextile shall overlap across one side of the inlet so the ends of the cloth are not fastend to the same post.

Specifications

Geotextile Inlet Protection



- 1. Inlet protection shall be constructed either before upslope
- to a copin at reast 1; increas.

 3. The vecodes frame shall be constructed of 2-inch by
 4-inch constructed or grade further. The 2-inch by 4-inch
 posts shall be driven one (1) II. Into the ground at four
 contres of the lotel and the top portion of 2-inch by 4-inch
 frame assembled using the overlap joint shown. The log
 of the frame shall be at least 6 inches below adjacent
 roads if ponded water will pose a safety fazzará 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 securer to the frame.
- Geotextile material shall have an equivalent opening size of 20-40 sieve and be resistant to sunlight. It shall be stratched tightly around the frame and fastened securely It shall extend from the too of the frame to 18 inches
- Backfill shall be placed around the inlet in compacted 6-linch layers until the earth is even with notch stevation or ands and top elevation on sides.
- A compacted earth dike or check dam shall be con-structed in the dilch line hellow the inlet if the inlet is not in a depression. The top of the dike shall be at least 6 inches higher than the top of the frame.

CHAPTER & Sediment Controls 39

emporary Seeding Specifications

Seeding Dates	Species	Lb. / 1000sqft	Per Acre
March 1 to August 15	Octs Tall Fescue Annual Ryegrass	3. 1 1	4 bushel 40 lb. 40 lb.
	Perennial Ryegrass Tall Fescué Annual Ryegrass	1	40 lb. 40 lb. 40 lb.
August 16 to November 1	Rye Tall Fescue Annual Ryegrass	1	2 bushel 40 lb. 40 lb.
	Wheat Tall Fescue Annual Ryegrass	girk year	40 lb. 40 lb. 40 lb.
	Perennial Ryegrass Tall Fescue Annual Ryegrass	7	40 lb. 40 lb. 40 lb.
November 1 to Spring Seeding	Use mulch only, soddi	ng practices or donn	ant seeding

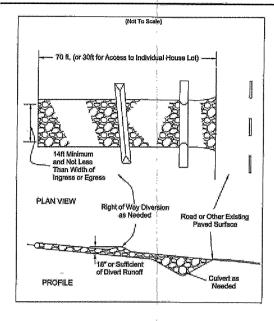
Note: other opproved seed species may be substituted

Seed Mix	lb./ac.	lb. / 1000sqft	Notes:
	Gener	d Use	
Creeping Red Fescue	20-40	1/2-1 /4-1/2 1/4-1/2	·
Domestic Ryegrass	10-20	1/4-1/2	
Kentucky Bluegross	10-20	1/4-1/2	
Tall Fescue	40		
Dwarf Fescue	40		
	Steep	Banks or Cut Slopes	400
Tall Fescue	40	ĭ	
Crown Vetch	10	1/4	Do not seed later than August.
Tali Fescue	20	1/4	4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -
Flat Pea	20	1/2	Do not seed later than August.
Tall Feacus	20	1/2	-
	Road	Ditches and Swales	۸.
Tall Fescue	40	1	
Owarf Feacue	90	2 1/4	
Kentucky Bluegrass	5		x
	Lawns		81
Kentucky Bluegrass	60	1 1/2	
Perennial Ryegross	60	1 1/2	
Kentucky Bluegrass	60	1 1/2	For Shaded areas.
Creeping Red Fescue	60	1 1/2	4 Dr. GARDON D. B. W.

Straw mulch shall be unrotted small-grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 sq. ft. (two to three botes). 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. boles of straw in sech section.

Specifications

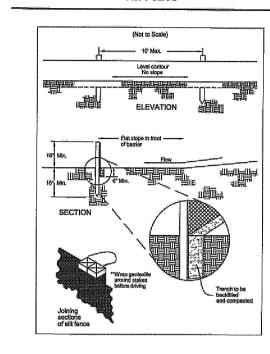
Construction Entrance



Construction Entrance

CHAPTER 7 Soil Stabilization

Silt Fence



CHAPTER'S, Sediment Controls 23

Silt Fence

- Längth—The Construction entrance shall be as long as regulard to stabilize high traffic areas but not less than 70 ft. (exception: apply 30 ft. minimum to single
- Thickness -The stone layer shall be at least 6 inches thick for light duty entrances or at least 10 inches for heavy dut
- Width The entrence shall be at least 14 feet wide, but
 not less than the full width at points where ingress or egress
- Geotsxille A geotsxille shall be laid over the entire are prior to placing stone, it strail be composed of strong rot-proof polymeric fibers and meet the following providentiates:

Figure 7.4.1				
Minimum Tensile Strength	200 lbs.			
Minimum Puncture Strength	80 psi.			
Minimum Tear Strength	50 lbs.			
Minimum Burst Strength	320 psi.			
Minimum Elongation	20%			
Equivalent Opening Size	E0S < 0.6.mm.			
Permittivity	3×10-3 cm/sec			

- 20 CHAPTER 7 Soil Stabilization

- Storie Size—ODOT # 2'(1.5-2.5 inch) štorie shall be used, or recycled concrete equivalent
 G. Timing—The construction entrance shall be installed as soon as is practicable before major grading activities.
 - 7. Culvert -A pige or culvert shall be constructed under the entrance if needed to prevent surface water from flowing across the entrance or to prevent runoff from being direct
 - Water Bar A water bar shall be constructed as part of the construction entrance if needed to prevent surface runoff from flowing the length of the construction entrance and out
 - Melhanner Top dressing of additional stone shall be applied as conditions definied. Must spilled, dropped, weshed or hazded onto public reads, or any surface where runoff is not checked by sediment controls, shall be entrawed immediately. Removal shall be accomplished by scripping or awasping.
 - 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 restricted.
 - 11. Removal—the entrance shall remain in place until the disturbed area is stabilized or replaced with a permanent

1. Silt fence shall be constructed before upslope land distur-9. Seams between sections of sitt fence shall be soliced together only at a support post with a minimum 6-in overlap prior to driving into the ground, (see defails).

- 2. All shit fence shall be placed as close to the contour as possible so that water will not concentrate at low points in the tence and so that small swales or depressions that may carry small concentrated flows to the silt tence are dissipated along its length.
- Ends of the slit fences shall be brought upslope slightly so that water ponded by the slit fence will be prevented from flowing around the ends. 4. Sill fence shall be placed on the flattest area available.
- 5. Where possible, vegetation shall be preserved for 5 feat for as much as possible) upslope from the stift fence. If vegetation is removed, it shall be reestablished within 7 days from the installation of the stiff fence. 6. The height of the sitt fence shall be a minimum of 16
- above the original ground surface.
- The six faces shall be placed in an excepted or sliced french cut a minimum of 8 inches teep. The trench shall be made with a treptor, cable laying machine, slicing machine, or other suitable eview that will ensure an edequately uniform trench depth.
- 8. The sitt fence shall be placed with the stakes on the downslope side of the geotextile. A minimum of 8 inches of geolextile must be below the ground surface. Excess material shall say on the bottom of the 8-inch deep trench. The trench shall be backfilled and compacted on both
- Sat takes shart of disperient area such raman and least daily during a prolonged rainfall. The location is existing slif fence shall be reviewed daily to ensure if proper location and effectiveness. If damaged, the is fence shall be repaired immediately. Criteria for silt fence materials

deposit reaches app the slit fence.

Trimen for six rence meaversis:

1. Fance pack—The length shall be a millimum of 32 inches. Wood posts will be 2-by-2-in, nominal dimensioned hardwood of sound quelly. They shall be fire of fixture, spills and what visible inerpredictors, that will weaken the posts. The maximum spacing between posts shall be 0.10. Prosts shall be ground, where possible. If not possible, the posts shall be ground, where possible. If not possible, the posts shall be adequately secured to prevent overturning of the fance due to sediment/water loading.

10. Maintenance—Sit fence shall allow runoff to pass only

flow discharge, one of the following shall be perform as appropriate: 1) the layout of the silt fence shall be

Sediment deposits shall be routinely removed when the

Sitt fences shall be inspected after each rainfall and at

ence ends, or in any other way allows a conc

3) other oractices shall be installe

as diffuse flow through the geotextile. If runoff over-tops the slif fence, flows under the fabric or around the

2. Silt fence fabric - See chart below.

able 6.3.2 Minimum criteria for Si	t Fence Fabric (0507,	2002)
FABRIC PROPERTIES	VALUES .	TEST METHOD
Minimum Tensile Strength	120 lbs. (535 N)	ASTM D 4632
Maximum Elongation at 60 lbs	50%	ASTM D 4632
Minimum Puncture Strength	50 lbs (220 N)	ASTM D 4833
Minimum Tear Strength	40 lbs (180 N)	ASTM 0 4533
Apparent Opening Size	≤ 0.84 mm	ASTM D 4751
Minimum Permittivity	1X10-2 sec1	ASTM D 4491
UV Exposure Strength Retention	70%	ASTM G 4355

CHAPTER 6 Sediment Control

POLARIS ENGINEERING & SURVEYING, INC. 34600 CHARDON ROAD SUITE D WILLOUGHBY HILLS, OH 44094 (440) 944-4433 (440) 944-3722 (Fax) www.polaris-es.com

DATE: 9/17/14 SCALE: HOR. 1"=30"

VERT. none FILENAME: Unit 24 Site Plan

AVE. WAY S

0174 COLTON ARIA'S WA L S PHA! 10174

SITE PLAN

CONCORD

OWNER:

RYAN HOMES 5770 W. SNOWVILLE ROAD SUITE 100 BRECKSVILLE, OHIO 44141

PHONE: (440) 584-4221

CONTACT:

CONTRACT No. 12032

SHEET OF