Erosion and Sediment Control Schedule

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

Ingress-Egress

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
exit to the site.

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 silt 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 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

Maintenance

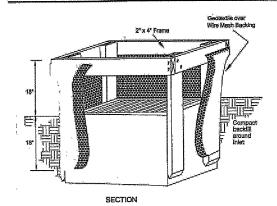
Erosion and sediment controls shall be inspected every seven (7) days or within 24 hours of a 0.5" or greater rainfall event. Necessary repairs shall be made at this

All erosion and sediment control specifications, descriptions and timetables are based on the descriptions and standards of The Ohio 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 Inlet protection shall be constructed before the storm drain becomes operational. The earth around 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 8 inches below grade of adjacent road if ponded water (see diagram to right). The top of the trame said 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.

Geotextile Inlet Protection



- injet protection shall be constructed either before upslope
- 2. The earth around the inlet shall be excavated completely to a depth at least 16 inches.
- to a cupput at seas 1 on tenes.

 The wooden frame shall be constructed of 2-inch by
 4-inch construction grade turber. The 2-inch by 4-inch
 posts shall be driven one (i) It. Init the ground at four
 courses of the joint paid the loop point or 2-inch by 4-inch
 frame assembled using the overlap joint shown. The top
 of the trans salls be at leaks it necks thow atlactor
 roads it ponded water will pose a safety hazard to traitio.
- a. Were 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 secure
- 5. Geofestile material shall have an aquitalent opening size of 20-40 sizes and be resistant to swillight. It shall be stretched tightly around the forme and fastancel socrarily, that all caterial from the log of the frame to 18 inches, below the hight notice describion. The geotration shall over-lap across one side of the higher to the ends of the citib are not fastaned to the same post.
- R. Rackfill shall be placed around the inlet in compacted 6-Z. A compacted earth dike or check dam shall be con-
- n comparison servir cines or cause, name snain de con-structed in that disch line below the livel if the inlet is not in a depression. The top of the disk shall be at least 6 inches higher than the top of the frame.

CHAPTER 6 Sediment Controls 39

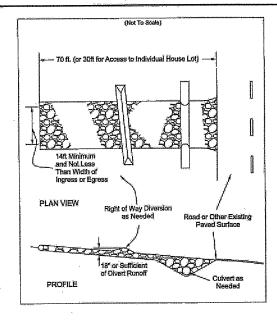
Seeding Dates	Species	Lb. / 1000sqft	Per Acre
March 1 to August 15	Oats Tall Féscue Annual Ryegrass	35 12 1	4 bushel 40 lb. 40 lb.
	Perennial Ryegrass Tall Fescue Annual Ryegrass	1	40 lb. 40 lb. 40 lb.
August 16 to November 1	Rye Tali Fescue Annual Ryegrass	1	2 bushel 40 lb. 40 lb.
	Wheat Tall Fescue Annual Ryegrass	1	40 lb. 40 lb. 40 lb.
	Perennial Ryegrass Tall Fescus Annual Ryegrass	1 1	40 lb. 40 lb. 40 lb.
November 1 to Spring Seeding	Use mulch only, sadding practices or dormant seeding		

Note: other approved seed species may be substituted.

Seed Mix	lb./cc.	lb. / 1000aqft	Notes:
	Gener	ol. Use	,
Creeping Red Fescue Domestic Ryegrass Kentucky Bluegrass	20-40 10-20 10-20	1/2-1 1/4-1/2 1/4-1/2	
Tall Fescue Dwarf Fescue	40 40		
	Steep	Banks or Cut Slopes	<u></u>
Toll Fescue	40		
Crown Vetch Tall Fescus	10 20	1/4	Do not seed later than August.
Flat Pea Tall Fescue	20 20	1/2	Do not seed later than August
730 1 300 50		Ditches and Swales	
Toli Fescus	¥0	۲ ا	
Dwarf Fescue Kentucky Bluegross	90 5	2 1/4	
	Lown	i .	
Kentucky Bluegrass Parennial Ryegrass	60 60	1 1/2 1 1/2	
Kentucky Bluegrass Cresping Red Fescus	60 60	11/2	For Shaded areas.

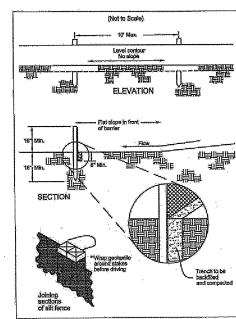
Straw mulch shall be unrotted small—grain straw applied at the rate of 2 tons/ac. or 30 lb./1,000 sq. ft. (two to three bales). The mulch shall be spread uniformly by hand or mechanically so the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000 sq. ft. sections and spread two 45-lb. bales of straw in each section.

Construction Entrance



CHAPTER 7 Soil Stabilization.

Silt Fence



Construction Entrance

- Shine Size—0001 # 2 (1.5-2.5 inich) stone shall be used, or feeppled concrete application.

 6. Timing—The construction entrance shall be installed as seconds is practicable before major grading activities.
- Length:—The Construction entrance shall be as long as required to stabilize high traffic areas but not less than 70 fb (exception: apply 50 fb. minimum to single
- Thickness -The stone layer shall be at least 6 inches thick for light duty enfrances or at least 10 inches for heavy duty
- Width-The entrance shall be at least 14 feet wide, but not less than the full width at points where ingress or egress
- Geofextile -A geotextile shall be laid over the entire area prior to placing stone, it shall be composed of strong rot-proof polyment fibers and meet the (ollowing)

Gentexille Specification for	or Construction Entranco
Minimum Tensile Strength	200 lbs.
Minimum Puncture Strangth	80 psi.
Minimum Tear Strength	50 lbs.
Minimum Burst Strength	320 psi.
Mislimum Bongation	20%
Equivalent Opening Size	EOS < 0.6 mm.
Permittivity 1×10-3 c	

20 CHAPTER 7 Soil Stabilization

- Culvert A pipe or culvert shall be constructed under the entrance if needed to prevent surface water from flowing. entrance if needed to prevent surface water from flow across the entrance or to prevent runoff from being dir
- 8. Water Bar -A water bar shall be constructed as part of the construction must use used us constructed as part of the construction entrance if needed to prevent surface throff from flowing the length of the construction entrance and out onto paved surfaces.
- 9. Minimporeu surare.83.
 9. Minimpance Top dressing of additional stone shall be applied as confidient demand. Mind sylled, dropped, washed or fracked only public roads, or any surface where untoil is not checked by sediment controls, shall be removed immediately. Removal shall be accomplished by scraping or sweeping.
- 10. 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 permane

Silt Fence

- 1. Sift fence shall be constructed before upslope land disturbance begins.
- pance degree.

 All fall fance shall be placed as close to the contour as possible so that water will not concentrate at low points in the fence and so that small swales or depressions that may carry small concentrated flows to the silt fence are dissipated along its length.
- Ends of the slit fences shall be brought upslope slightly so that water perded by the slit fence will be pravented from flowing around the ends.
- 4. Silt fence shall be placed on the flattest area available.
- Where possible, regetation shall be preserved for 5 feet for as much as possible) upsiope from the silt fence. If vegetation is removed, it shall be reestablished within 7 days from the installation of the silt fence.
- The height of the silt fence shall be a minimum of 16 inches above the original ground surface.
- 7. The stit tence shall be placed in an excavated or sliced french cut a minimum of 8 inches deep. The trench shall be made with a trencher, cable laying machine, skicing machine, or other exitable eleven that will ensure an adequately uniform (rench depth.
- B. The silf forces shall be placed with the claices on the downslope side of the perbixule. A miximum of 8 inches of general in must be below the ground surface. Excess material shall key on the bottom of the 6-inch deep trench. The trench shall be backfilled and compacted on both sides of the faith.

- Seams between sections of silt fence shall be spliced together only at a support post with a minimum 6-in. overlap prior to driving into the ground, (see details).
- overlap prior to driving into the ground, (see details).

 10. Maintenance—Salf fence shall allow renorif to pass only and diffuse frow through the peotextile. If ruinoft overtoes the shift fence, flows under the fabric or around the fence ends, or in any other way allows a concentrated flow discharge, one of the following shall be performed, as appropriate: 1) the layout of the silf-flores shall be changed, 2) accumulated segment shall be removed, or 3) other practices shall be instabled.
- Sediment deposits shall be routinely removed when the deposit reaches approximately one-half of the height of

Sill fences shall be inspected after each rainfall and at Sig tences sina de inspected alori each raintal and at least daily during a prolonged raintall. The location of existing silt fence shall be reviewed daily to ensure its proper location and effectiveness. It damaged, the silt fence shall be repaired immediately.

Criteria for sill tence materials

- Turtural for fait tengoe meternals

 1. Fence post—The length shall be a minimum of 32 inches. Wood posts will be 2-by-2-bn, nominal dimensioned hardwood of sound quality. They shall be free at lengths, eight and other visible imperfections, that will weaken the posts. The maximum oposing between posts shall be 10-ft. Posts shall be free an minimum 18 factorisation the ground, where possible. If not possible, the posts shall be adequately secured to prevent overturing of the fence due to sediment/water loading.
- 2. Sitt fence fabric See chart below

BID10 2:3:5 emisternal currors for 90	rence rauna journ,	evere
FABRIC PROPERTIES	VALUES	TEST METHOD
Minimum Tensile Strength	120 des. (535 N)	ASTM D 4632
Maximum Ekingation at 60 lbs	50%	ASTM D 4632
Minimum Puncture Strength	50 lbs (220 N)	ASTM D 4833
Minimum Tear Strength	40 ths (180 N)	ASTM D 4533
Apparent Opening Size	≤ 0.84 mm	ASTM 0 4751
Minimum Permittivity	1810-2 sec1	ASTM 0 4491
UV Exposure Strength Retention	70%	ASTM G 4355

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5/1/14 DATE:___ SCALE: HOR. 1"=30" VERT._none_

FILENAME: Unit 15 Site Plan

OHO

TOWNSHIP

CONCORD

AVE. SITE PLAN FOR: UNIT 15 10195 COLTON AV ARIA'S WAY PHASE

OWNER:

RYAN HOMES 6770 W. SNOWVILLE ROAD SUITE 100 BRECKSVILLE, OHIO 44141

PHONE: (440) 584-4221

CONTACT: MARK FAIR

CONTRACT No. 12032

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