



WASH OFF PAD

* IF WATER IS NOT AVAILABLE, A WATER TRUCK WILL BE PROVIDED

EXISTING SUBGRADE

6-8" AGGREGATE

GEOTECH FABRIC

N.T.S.

VEGETATIVE ESTABLISHMENT FOR URBAN DEVELOPMENT SITES

APPENDIX A

Seeding Rates:

Permanent:

- Tall Fescue - 300 lbs./ac.
- Smooth Brome - 200 lbs./ac.
- Combined: Fescue @ 150 lbs./ac. and Brome @ 100 lbs./ac.

Temporary:

- Wheat or Rye - 150 lbs./ac. (3.5 lbs. per 1000 sq. ft.)
- Oats - 120 lbs./ac. (2.75 lbs. per 1000 sq. ft.)

Seeding Periods:

- Fescue or Brome: March 1 to June 1
- Wheat or Rye: August 1 to October 1
- Oats: March 15 to November 1

Mulch Rates:

100 lbs. Per 1,000 sq. ft. (4,356 lbs. per acre)

Fertilizer Rates:

- Nitrogen: 30 lbs./ac.
- Phosphate: 30 lbs./ac.
- Potassium: 30 lbs./ac.
- Lime: 600 lbs./ac. ENM*

*ENM - Effective Neutralizing Material as per State evaluation of quarried rock.

SYNTHETIC FILTER BARRIERS

- Set posts and excavate a 4"x4" trench upsize along the line of the posts.
- Staple the wire mesh fencing to each post.
- Attach the filter fabric to the wire fencing and extend it into the trench.
- Backfill the trench and compact the excavated soil.

POST

TRENCH 4"x4"

WIRE FENCING

COMPACTED BACKFILL

PLAN VIEW

X-SEC VIEW

Elevation of points 'A' should be higher than 'B'

Maintenance:

- Filter barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately.
- Should the fabric decompose or become ineffective prior to the end of the expected useful life and the barrier still be necessary, the fabric shall be replaced promptly.
- Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately half the height of the barrier.
- Any sediment deposits remaining in place after the soil fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared and seeded.

STRAW BALE DETAIL

- Excavate a trench 4" deep and the width of a straw bale.
- Place and staple straw bales, two staples per side.
- Wedge loose straw between bales to create a barrier.
- Backfill and compact the excavated soil as shown on the uphill side of the barrier to prevent piping.

STRAW BALE

STAKE

BINDING WIRE

PLAN VIEW

X-SEC VIEW

Elevation of points 'A' should be higher than 'B'

DIVERSION SWALES

* Outlets for diversions must be stable. Stable outlets consist of grass waterways, earthen channels with capacity adequate to prevent gully erosion, grade stabilization structures or other practices as approved by the Designated Official.

COMBINATION DIVERSION

Used at the top of a fill slope.

EARTH RIDGE DIVERSION

Used around the perimeter of a construction site.

COMBINATION DIVERSION

General use.

GRAVEL RIDGE DIVERSION

General use.

DIVERSION SWALE CALCULATION

LONGITUDINAL SLOPE (%)	DISCHARGE (CFS)	VELOCITY (FT/SEC)	DEPTH (FT)
0.50	4.00	1.89	0.84
1.00	4.00	2.46	0.74
2.00	4.00	3.12	0.65
3.00	4.00	3.71	0.60
4.00	3.54	4.00	0.54
5.00	2.51	4.00	0.46
6.00	1.91	4.00	0.40
7.00	1.52	4.00	0.36
8.00	1.24	4.00	0.32
9.00	1.04	4.00	0.29
10.00	0.89	4.00	0.24

DIVERSION SWALES MUST BE STABILIZED. IF GRASS CAN NOT BE ADEQUATELY ESTABLISHED, THEN THEY MUST BE SOODED. IF THEY CAN NOT BE ADEQUATELY SOODED THEN COMMERCIAL CONTROL BLANKETS MUST BE USED.

MAXIMUM SIDE SLOPE = 3:1

SEDIMENT BASIN OUTLET STRUCTURE DETAIL N.T.S.

TOP OF DAM

4' WIDE (MIN)

1" HOLES, 6" VERT AND HORIZ CMP PERFORATED RISER WRAPPED W/FILTER CLOTH

PAINT CLEAN-OUT

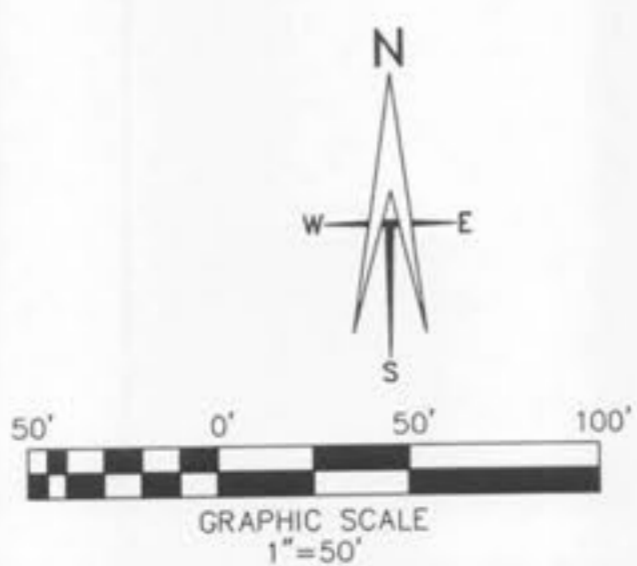
PLACED RIP-RAP

2'x2' CONC. BASE 18" THICK

CMP @ 1.00%

- The perforated riser shall be four (4) feet tall.
- The Pointed cleanout line shall be two (2) feet from the top of the perforated riser.
- The dam shall be one (1) foot above the top of the perforated riser.
- As an area is filled new sections of riser shall be installed to keep the bottom of the perforated riser at the ground elevation.

	TRAP A	TRAP B	TRAP C	TRAP D	TRAP E
Contributing Acreage	3.24 Acres	3.37 Acres	7.35 Acres	3.62 Acres	2.97 Acres
Flowrate P.L.=3.30	10.69 cfs	11.12 cfs	24.26 cfs	11.95 cfs	9.80 cfs
REQUIRED STORAGE	5,832 ft ³	6,066 ft ³	13,230 ft ³	6,516 ft ³	5,346 ft ³
PROVIDED STORAGE	6,830 ft ³	7,055 ft ³	14,405 ft ³	6,520 ft ³	8,400 ft ³
BASIN DIM	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS
DIAMETER OF RISER	18"	18"	24"	24"	18"
DIAMETER OF CULVERT	18"	18"	24"	24"	18"
LENGTH OF CULVERT	60 ft	70 ft	90 ft	100 ft	50 ft
FL IN OF CULVERT	496.60	493.70	492.90	487.00	499.50
FL OUT OF CULVERT	496.00	493.00	492.00	486.00	499.00
CLEAN OUT ELEVATION	505.00	503.00	497.00	505.00	503.00



THE UNDERGROUND UTILITIES SHOWN HEREIN WERE PLOTTED FROM AVAILABLE INFORMATION AND DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE OR NONEXISTENCE, SIZE, TYPE, NUMBER OR LOCATION OF THESE OR OTHER UTILITIES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN, AND SAID UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319, RSMO.

BELLEAU CROSSING GRADING

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