

**VEGETATION ESTABLISHMENT
For Urban Development Sites
APPENDIX A**

SEEDING RATES:

PERMANENT:

Tall Fescue - 30 lbs./ac.
Smooth Brome - 20 lbs./ac.
Combined - Fescue @ 15 lbs./ac. AND
Brome @ 10 lbs./ac.

TEMPORARY:

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

SEEDING PERIODS:

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

MULCH RATES:

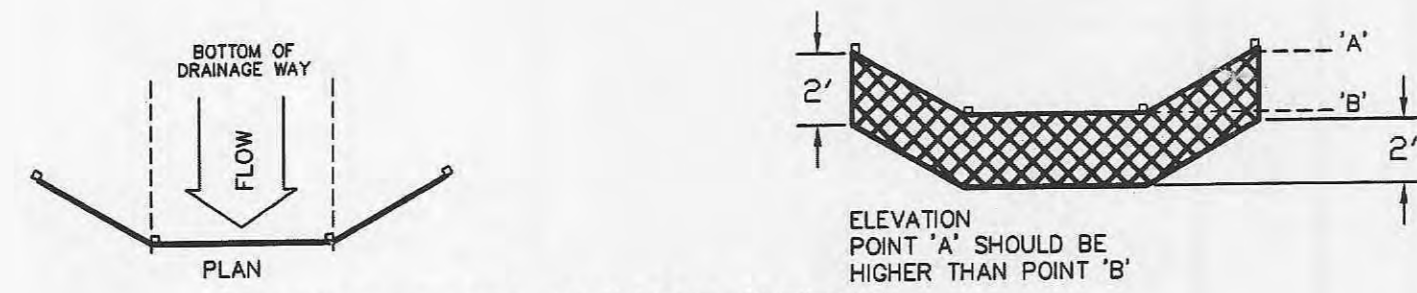
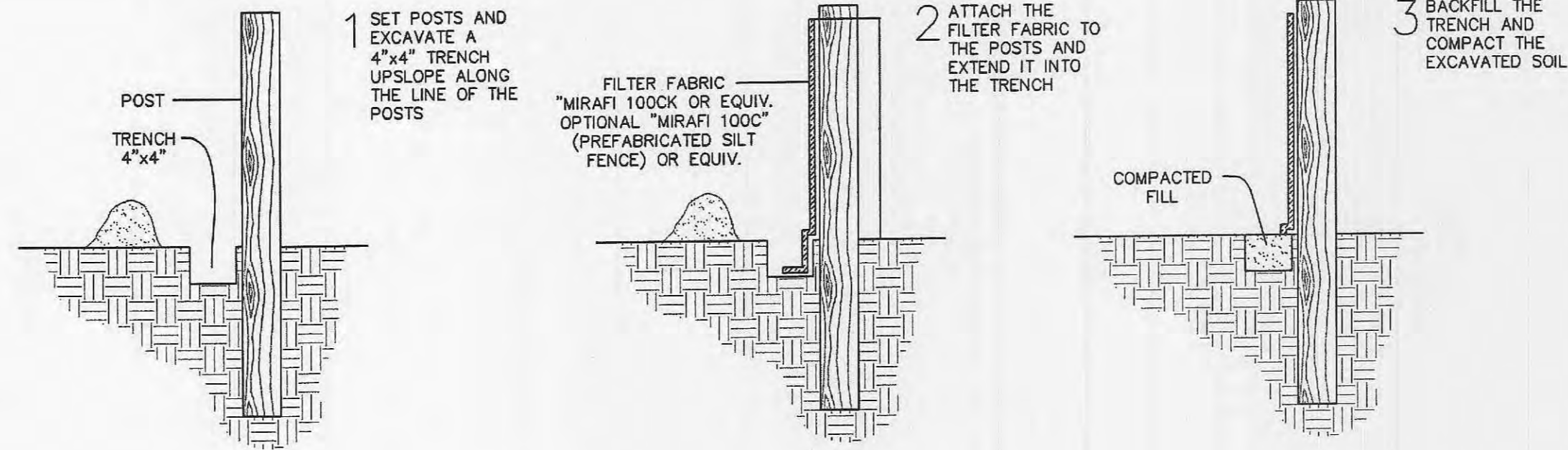
100 lbs. per 1000 sq. ft. (4,356 lbs. per ac.)

FERTILIZER RATES:

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

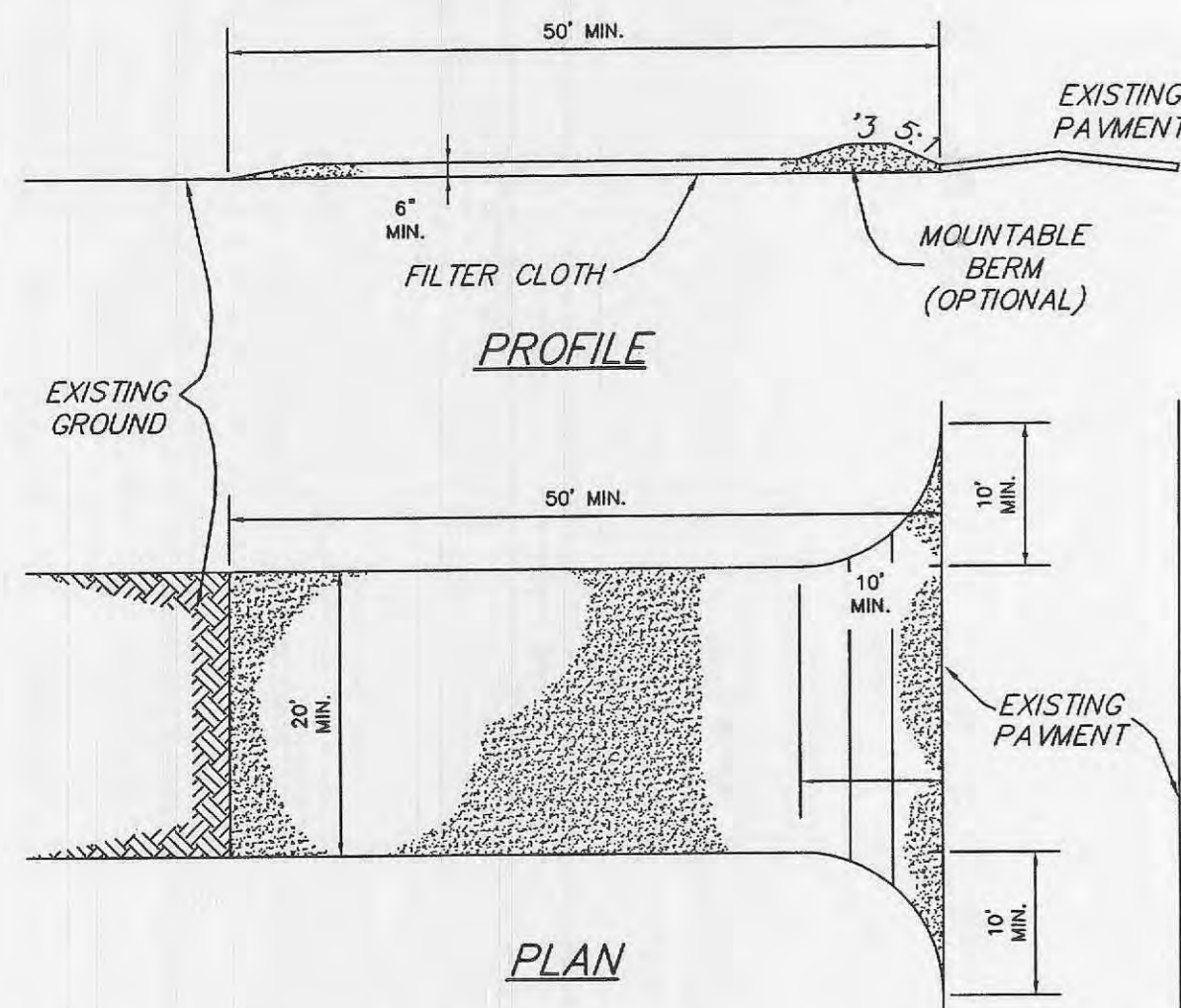
* ENM = effective neutralizing material as per State evaluation of quarried rock.

MAINTENANCE
1. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE BARRIER.
4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.



SILTATION FENCE DETAIL

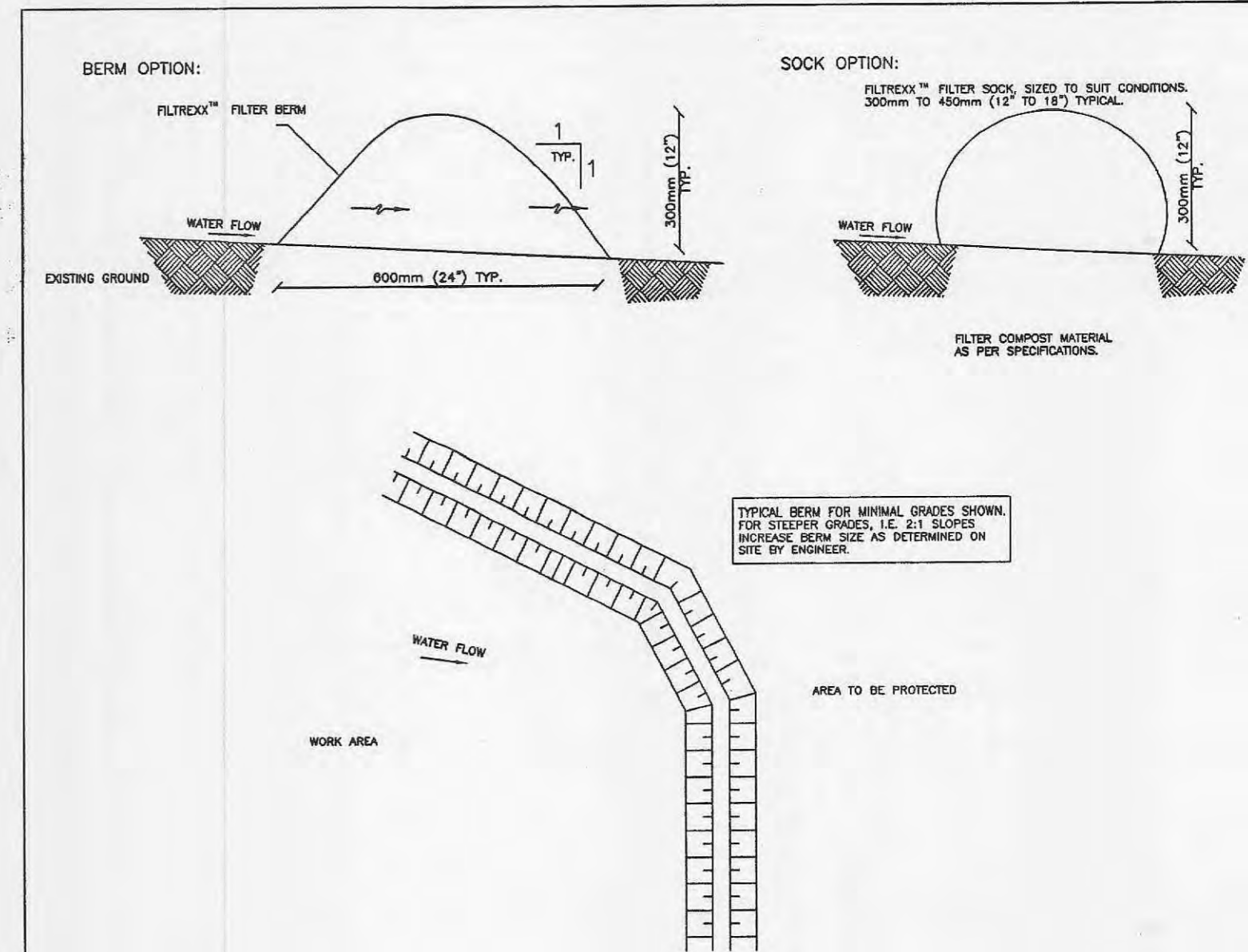
SILTATION CONTROL SWALE:
INTERIM TEMPORARY GRADING:



CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Twenty (20) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE/WASHDOWN AREA
NOT TO SCALE



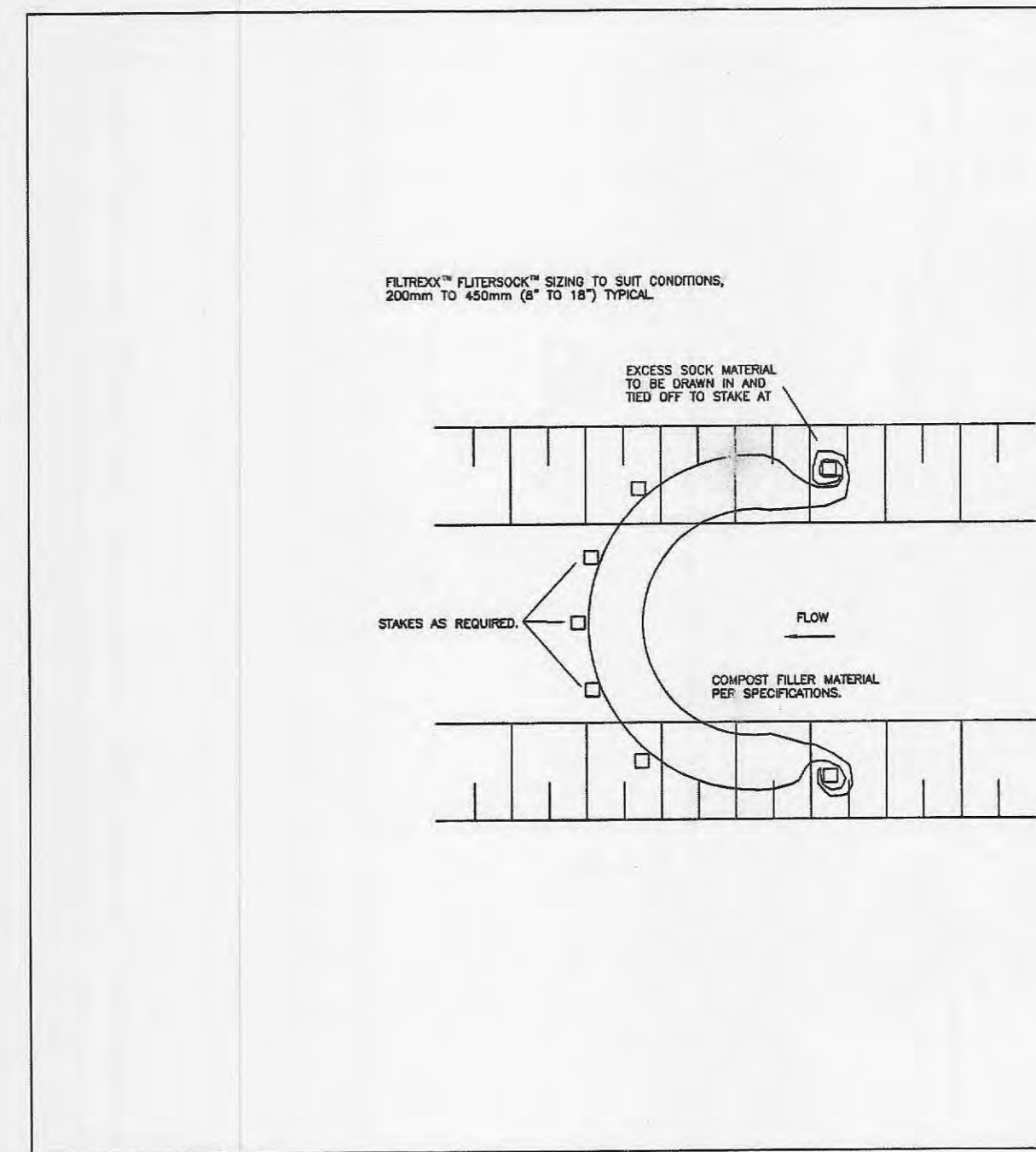
NOTES:
1. ALL MATERIAL TO MEET FILTREXX™ SPECIFICATIONS.
2. THE CONTRACTOR SHALL MAINTAIN THE COMPOST FILTER BERM IN A FUNCTIONAL CONDITION AT ALL TIMES AND IT SHALL BE PROMPTLY REPAIRED.
3. WHERE THE BERM REQUIRES REPAIR, IT WILL BE PROMPTLY REPAIRED.
4. THE CONTRACTOR SHALL REMOVE SEDIMENTS COLLECTED AT THE EDGE OF THE BERM WHEN THEY REACH 1/2 OF THE EXPOSED HEIGHT OF THE BERM, AS DIRECTED.
5. THE COMPOST FILTER BERM WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED, AS DETERMINED BY THE ENGINEER.

**FILTREXX™
CANADA**
324 GOVERNORS RD. EAST
PARIS, ONTARIO
CANADA, N3L 3E1
519-754-8296

**FILTREXX™
INTERNATIONAL**
35481 GRAFTON EASTERN RD
GRAFTON, OH
USA 44044
440-928-8041

**SITE
SEDIMENT CONTROL**

DESIGN: R.D.B. SCALE: NTS
CHECKED: R.D.B. DRAWN: G.W.S.
SHEET: 5 of 7 DWG. NO:
DATE: T5



NOTES:
1. ALL MATERIAL TO MEET FILTREXX™ SPECIFICATIONS.
2. COMPOST MATERIAL WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED, AS DETERMINED BY THE ENGINEER.

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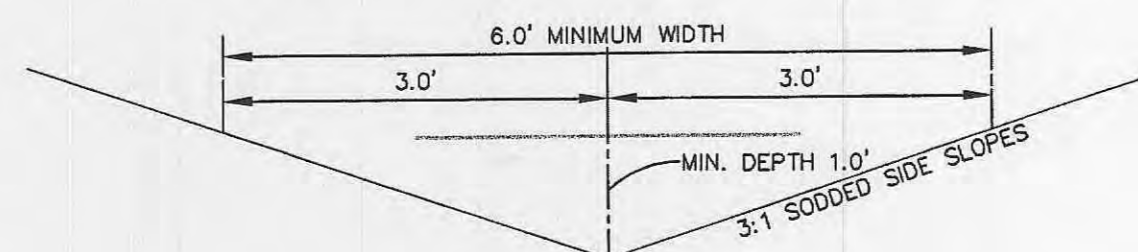
DITCH CHECKS

DESIGN: R.D.B. SCALE: NTS
CHECKED: R.D.B. DRAWN: G.W.S.
SHEET: 3 of 7 DWG. NO:
DATE: T3

TYPICAL YARD SWALE

Maximum Discharge (Q) = 4.00 cfs
Maximum Velocity (V) = 4.00 ft/sec
N = 0.030 (grass)
Maximum side slopes = 3 (horizontal) : 1 (vertical)

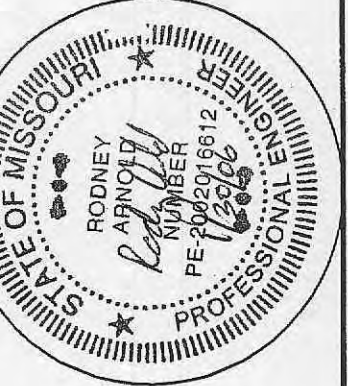
Longitudinal Slope (%)	Discharge (cfs)	Velocity (ft/sec)	Depth (ft)
0.5	4.00	1.89	0.84
1.0	4.00	2.46	0.74
2.0	4.00	3.12	0.65
3.0	4.00	3.71	0.60
4.0	3.51	4.00	0.54
5.0	2.51	4.00	0.46
6.0	1.91	4.00	0.40
7.0	1.52	4.00	0.36
8.0	1.24	4.00	0.32
9.0	1.04	4.00	0.29
10.0	0.89	4.00	0.24



Drawing name: K:\031269 Springhurst\eng\Improvements\2560\REC\DWG Plotted on Jan 30, 2006 - 8:00am Plotted by gsb

ISSUE	REMARKS/DATE
1	09-23-05 FIRST SUBMITTAL
2	11-22-05 REVISED PER CITY COMMENTS
3	01-06-06 REVISED PER CITY COMMENTS
4	01-30-06 REVISED PER CITY COMMENTS

PREPARED FOR:
SPRINGHURST, L.L.C.
5091 NEW BAUMGARTNER ROAD
ST. LOUIS, MISSOURI 63129
(314) 487-6717



THE STERLING CO.
ENGINEERS & SURVEYORS
5055 NEW BAUMGARTNER ROAD
ST. LOUIS, MO 63114
314-487-6717 FAX 314-487-8844
E-Mail: Sterling@sterling-eng-sur.com

PROJECT:
**THE VILLAGES
AT SPRINGHURST**
SHEET TITLE:
DETAIL SHEET

NO.	03	12	269
M.S.D.	SHEET		5.2
DIGITAL FILE LOCATION	SERVER-STERLING-2		
DATE	2/28/06		
OF	-		

BASE MAP