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TOLL FREE  
1-800-344-7483  
MISSOURI ONE-CALL SYSTEM, INC.

THE UNDERGROUND UTILITIES SHOWN HEREON WERE PLOTTED FROM AVAILABLE INFORMATION AND DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NONEXISTENCE, SIZE, TYPE, NUMBER OR LOCATION OF THESE OR OTHER UTILITIES. THE 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.

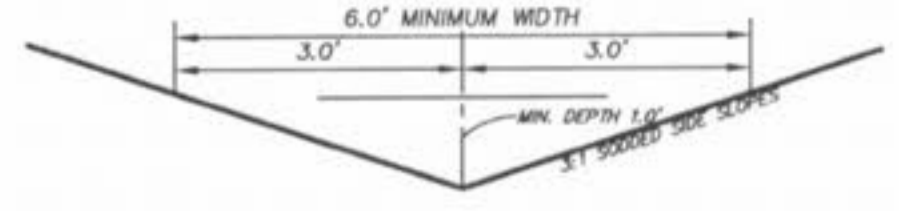
PROPERTY N/F  
KAPLAN LUMBER COMPANY, INC &  
LEONARD KAPLAN, TRUSTEE  
(2408/1783)  
6.80 AC. - ZONED R-1  
FUTURE DEVELOPMENT

NOTE:  
MULTI USE TRAIL TO BE LOCATED ON  
EAST SIDE OF CREEK. EXACT LOCATION  
AND DETAILS TO BE PROVIDED AT TIME  
OF DEVELOPMENT OF THIS PARCEL.

TEMPORARY DRAINAGE SWALE

Maximum Discharge (Q) = 4.00 cfs  
Minimum 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)
1.0	1.644462	0.63882399	0.23618511
2.0	2.457234	0.73681851	0.16484326
3.0	3.1186854	0.81484326	0.14888857
4.0	3.7100035	0.87535807	0.13888857
5.0	4.2507886	0.9235807	0.1325807
6.0	4.7507886	0.9618511	0.12818511
7.0	5.2185111	0.9918511	0.12451851
8.0	5.657234	1.01484326	0.121484326
9.0	6.0618511	1.0325807	0.11888857
10.0	6.437234	1.04618511	0.116484326



VEGETATIVE ESTABLISHMENT SPECIFICATIONS

**Seeding Rates:**  
Grass - 30 lbs./ac.  
Smooth Stone - 20 lbs./ac.  
Combined Grass & Stone @ 10 lbs./ac.  
Inoculation - 150 lbs./ac. (3.5 lbs. per square foot)  
Oats - 120 lbs./ac. (2.75 lbs. per square foot)

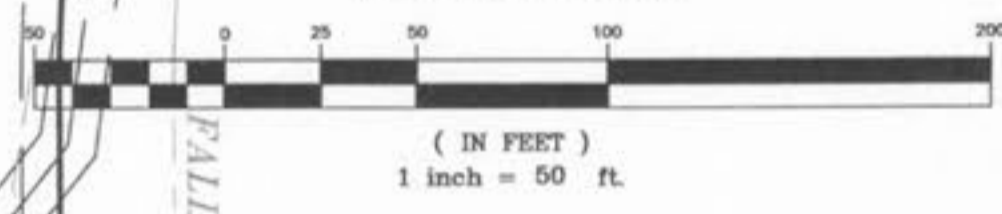
**Seeding Periods:**  
Grass or Stone - March 1 to June 1  
Grass or Stone - August 1 to October 1  
Oats - March 15 to November 15  
Oats - March 15 to September 15

**Mulch Rates:** 100 lbs. per 1,000 sq. feet (4,356 lbs. per acre)

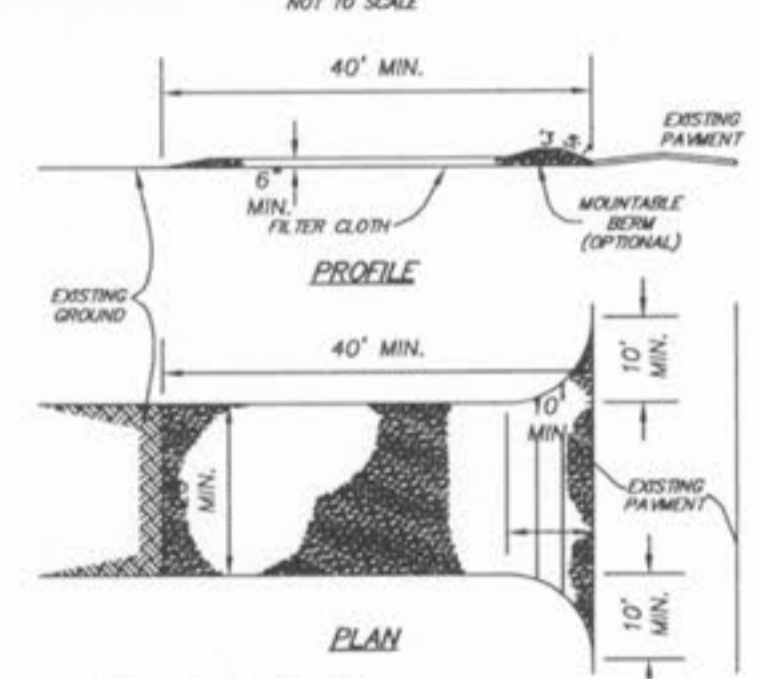
**Fertilizer Rates:** Nitrogen 30 lbs./ac., Phosphate 30 lbs./ac., Potassium 800 lbs./ac. EMM\*

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

GRAPHIC SCALE



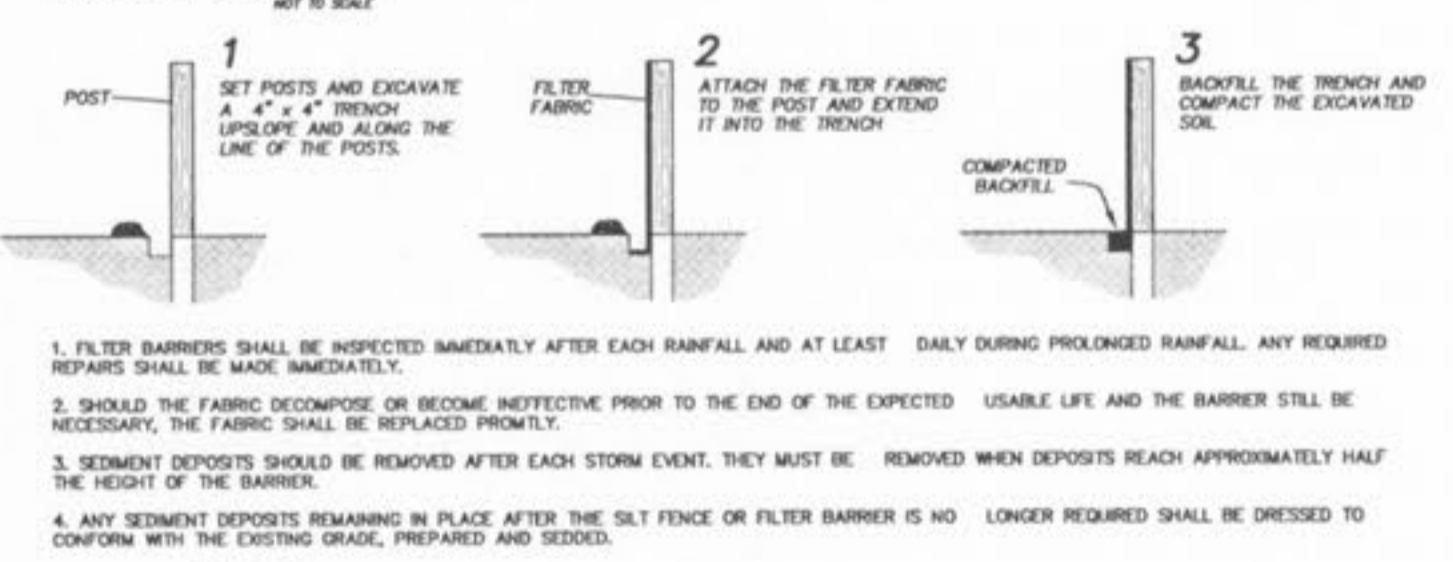
STABILIZED CONSTRUCTION ENTRANCE



CONSTRUCTION SPECIFICATIONS

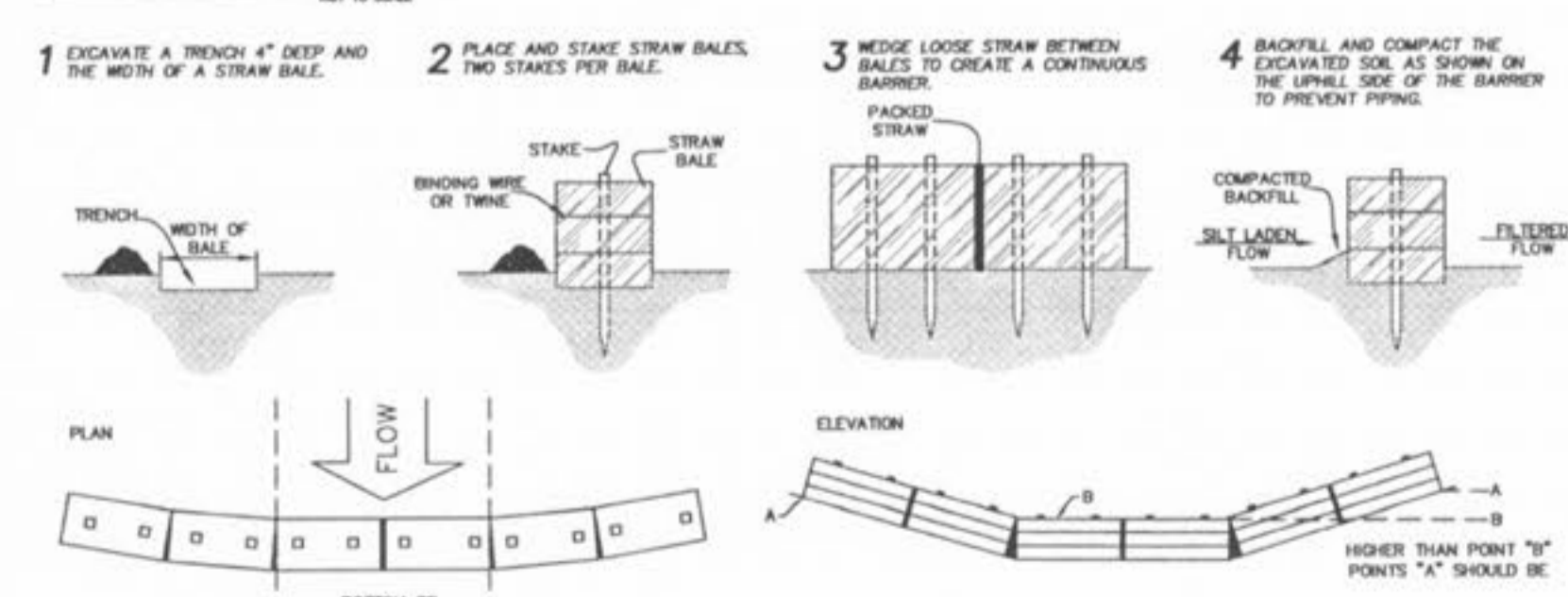
- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Twenty (20) feet minimum, but not less than the full width of points where ingress or egress occurs.
- 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.
- 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.
- 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 or conditions deemed and repair and/or cleaned of any measures used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Working - 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.
- Periodic inspection and needed maintenance shall be provided after each rain.

SILTATION FENCE DETAIL



- 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 deteriorate or become ineffective prior to the end of the expected usable 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 silt fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared and seeded.

STRAW BALE BARRIER DETAIL



- Excavate a trench 4" deep and the width of a straw bale.
- Place and stake straw bales.
- Wedge loose straw between bales to create a continuous barrier.
- Backfill and compact the excavated soil as shown on the elevation view of the barrier to prevent piping.

