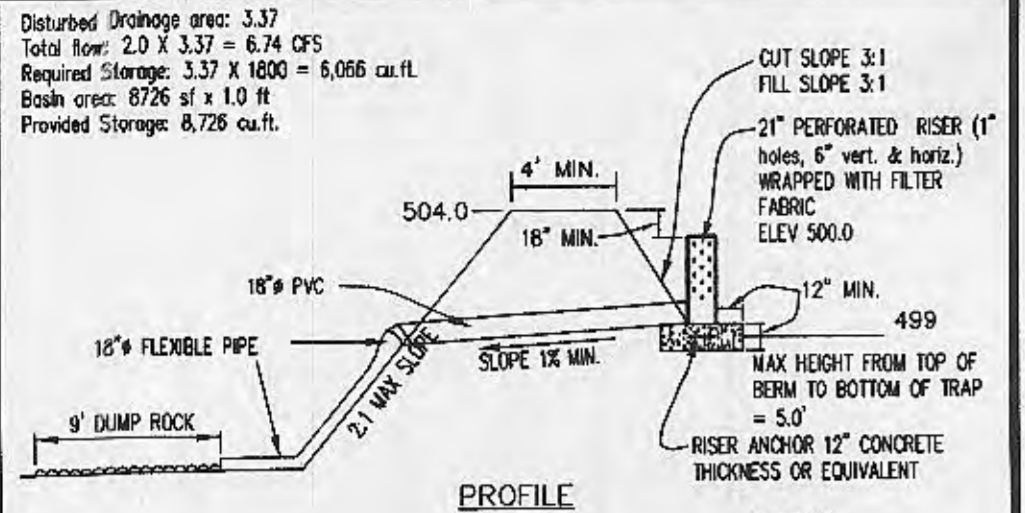
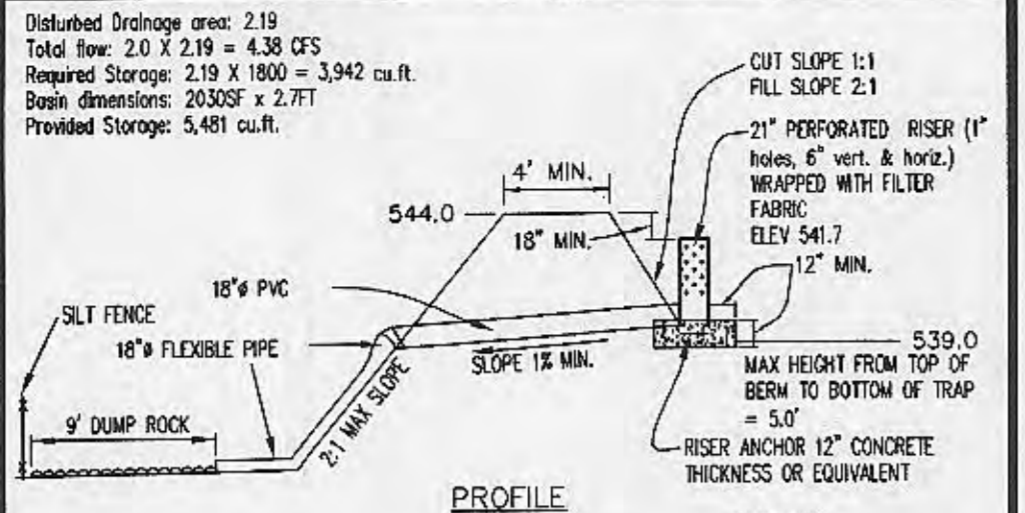


**PIPE SLOPE DRAIN FOR SEDIMENT BASIN SB#1**



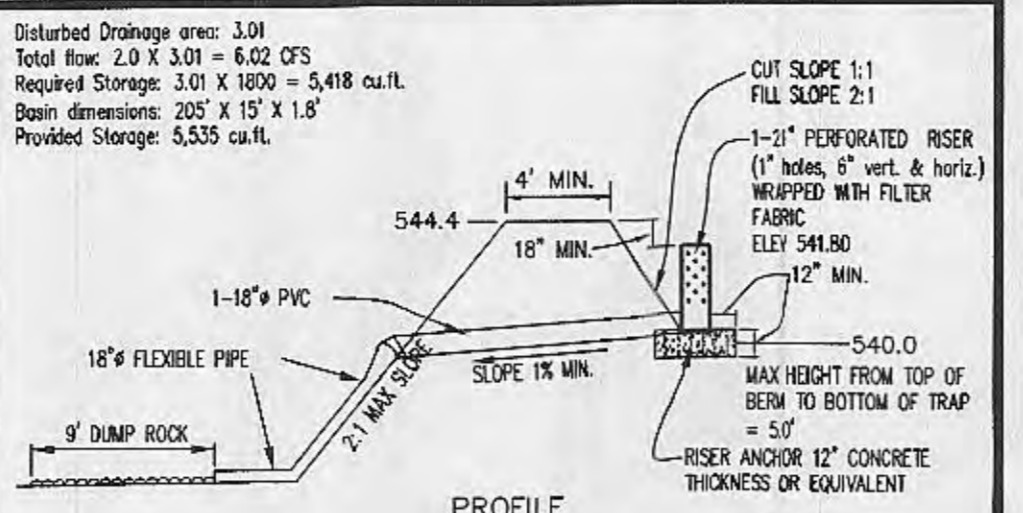
- N.T.S.**
- Construct per St. Charles County sediment and erosion control regulations.
  - The top of the earth dike over the inlet pipe and those dikes carrying water to the pipe shall be at least 1' higher at all points than the top of the inlet pipe.
  - A siltation fence shall be constructed around pipe opening to prevent sediment from entering pipe.
  - The corrugated polyethylene pipe shall be securely anchored to the slope by staking at the hold-granmets spaced 10' on centers.
  - Follow-up inspection and any needed maintenance shall be performed after each storm.
  - Soil around and under the inlet pipe and entrance section shall be hand tamped in 4" lifts to the top of the earth dike.
  - Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.

**PIPE SLOPE DRAIN FOR SEDIMENT BASIN SB#3**



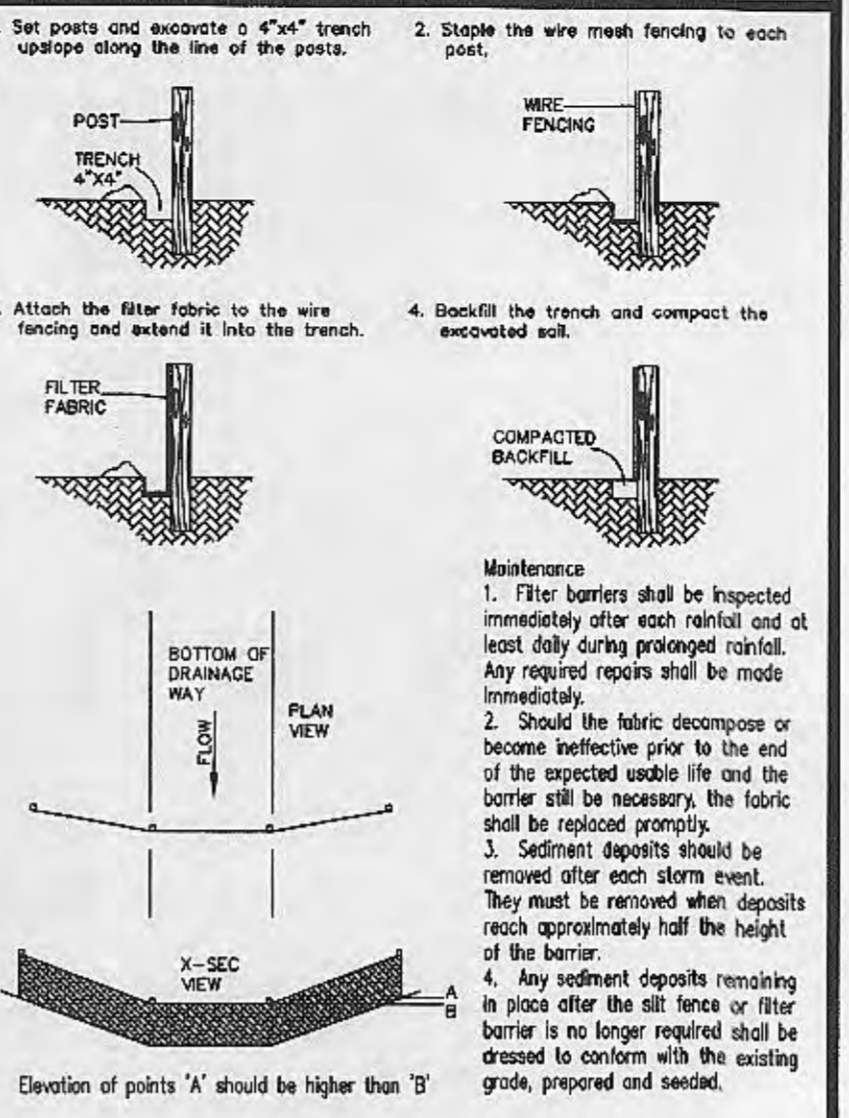
- N.T.S.**
- Construct per St. Charles County sediment and erosion control regulations.
  - The top of the earth dike over the inlet pipe and those dikes carrying water to the pipe shall be at least 1' higher at all points than the top of the inlet pipe.
  - A siltation fence shall be constructed around pipe opening to prevent sediment from entering pipe.
  - The corrugated polyethylene pipe shall be securely anchored to the slope by staking at the hold-granmets spaced 10' on centers.
  - Follow-up inspection and any needed maintenance shall be performed after each storm.
  - Soil around and under the inlet pipe and entrance section shall be hand tamped in 4" lifts to the top of the earth dike.
  - Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.

**PIPE SLOPE DRAIN FOR SEDIMENT BASIN SB#2**

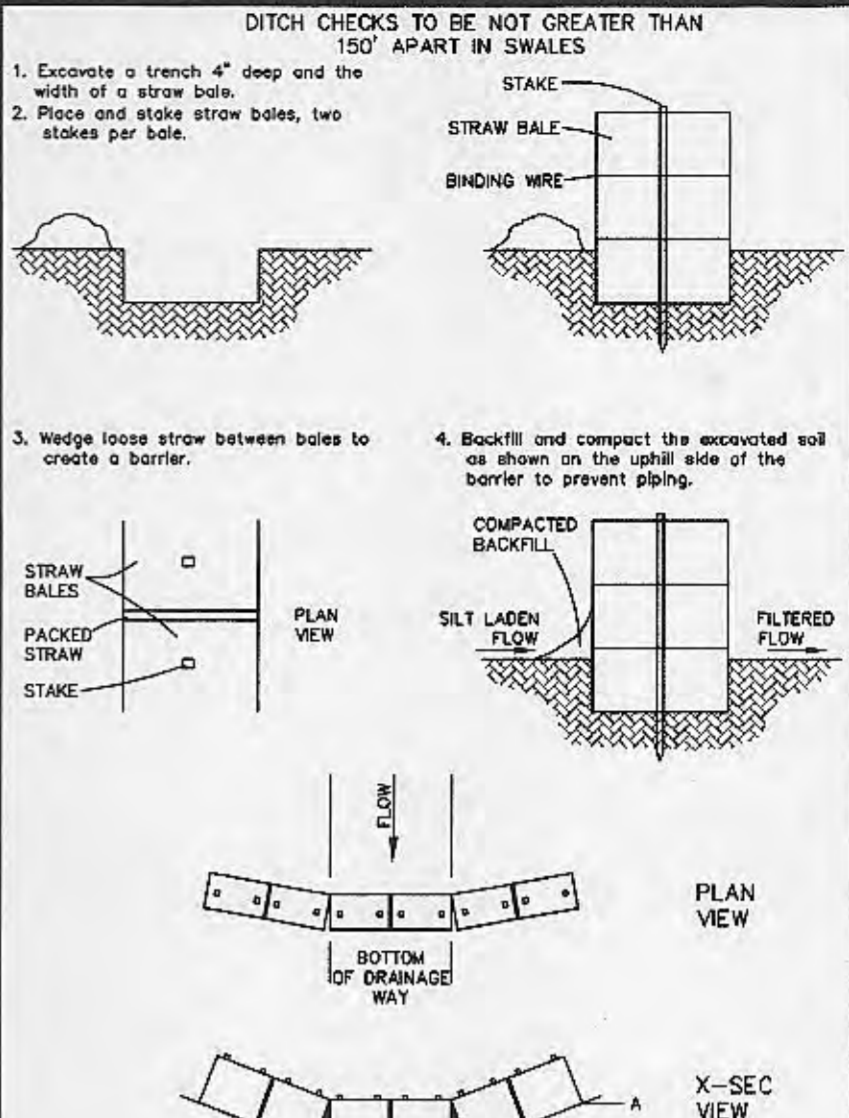


- N.T.S.**
- Construct per St. Charles County sediment and erosion control regulations.
  - The top of the earth dike over the inlet pipe and those dikes carrying water to the pipe shall be at least 1' higher at all points than the top of the inlet pipe.
  - A siltation fence shall be constructed around pipe opening to prevent sediment from entering pipe.
  - The corrugated polyethylene pipe shall be securely anchored to the slope by staking at the hold-granmets spaced 10' on centers.
  - Follow-up inspection and any needed maintenance shall be performed after each storm.
  - Soil around and under the inlet pipe and entrance section shall be hand tamped in 4" lifts to the top of the earth dike.
  - Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.

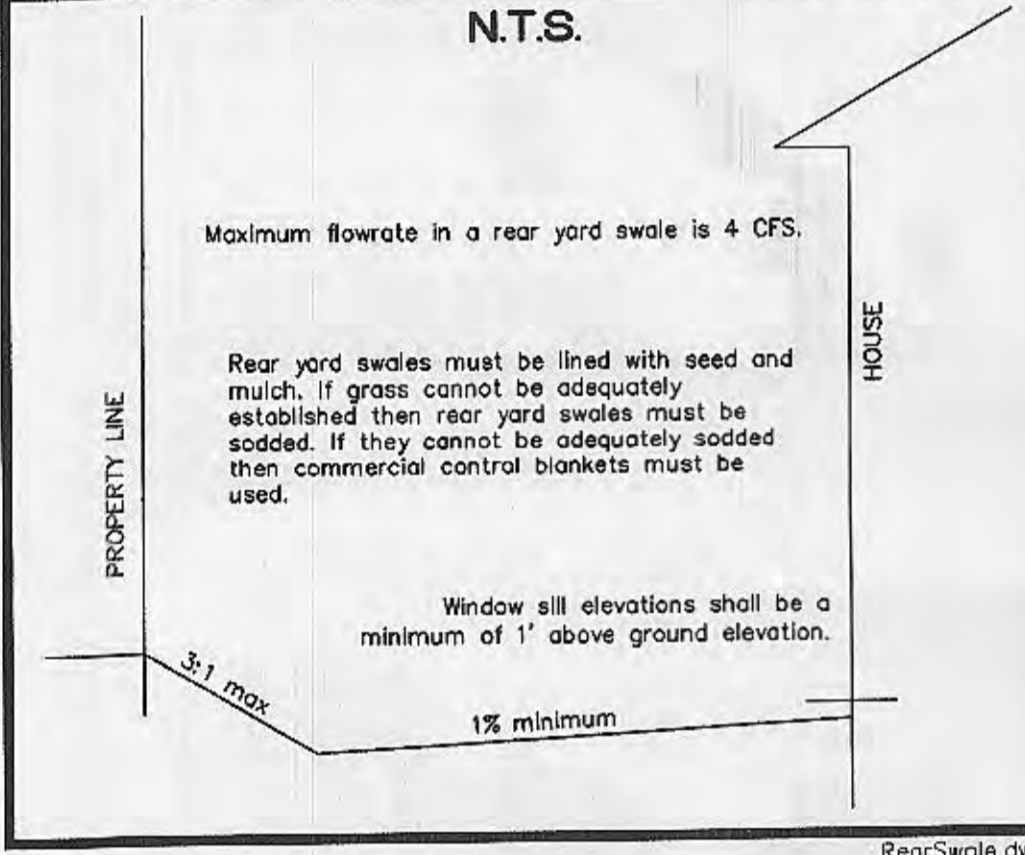
**SYNTHETIC FILTER BARRIERS**



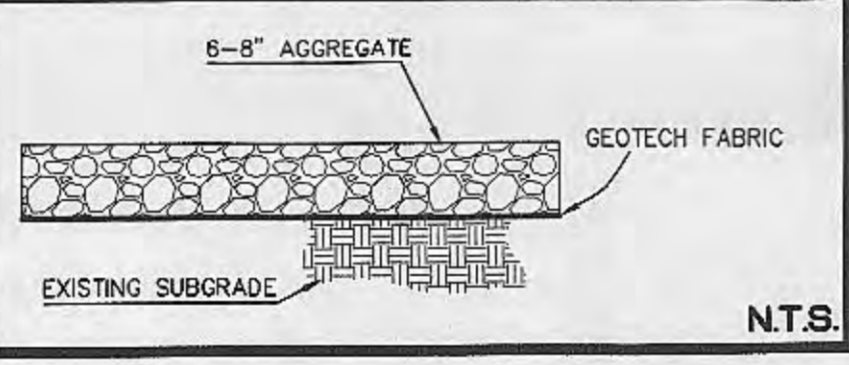
**DITCH CHECK DETAIL**



**SIDE AND REAR YARD SWALE TYPICAL CROSS SECTION**



**WASH OFF PAD**



**VEGETATIVE 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 1000 sq. ft.)
- Oats - 120 lbs./ac. (2.75 lbs. per 1000 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:**

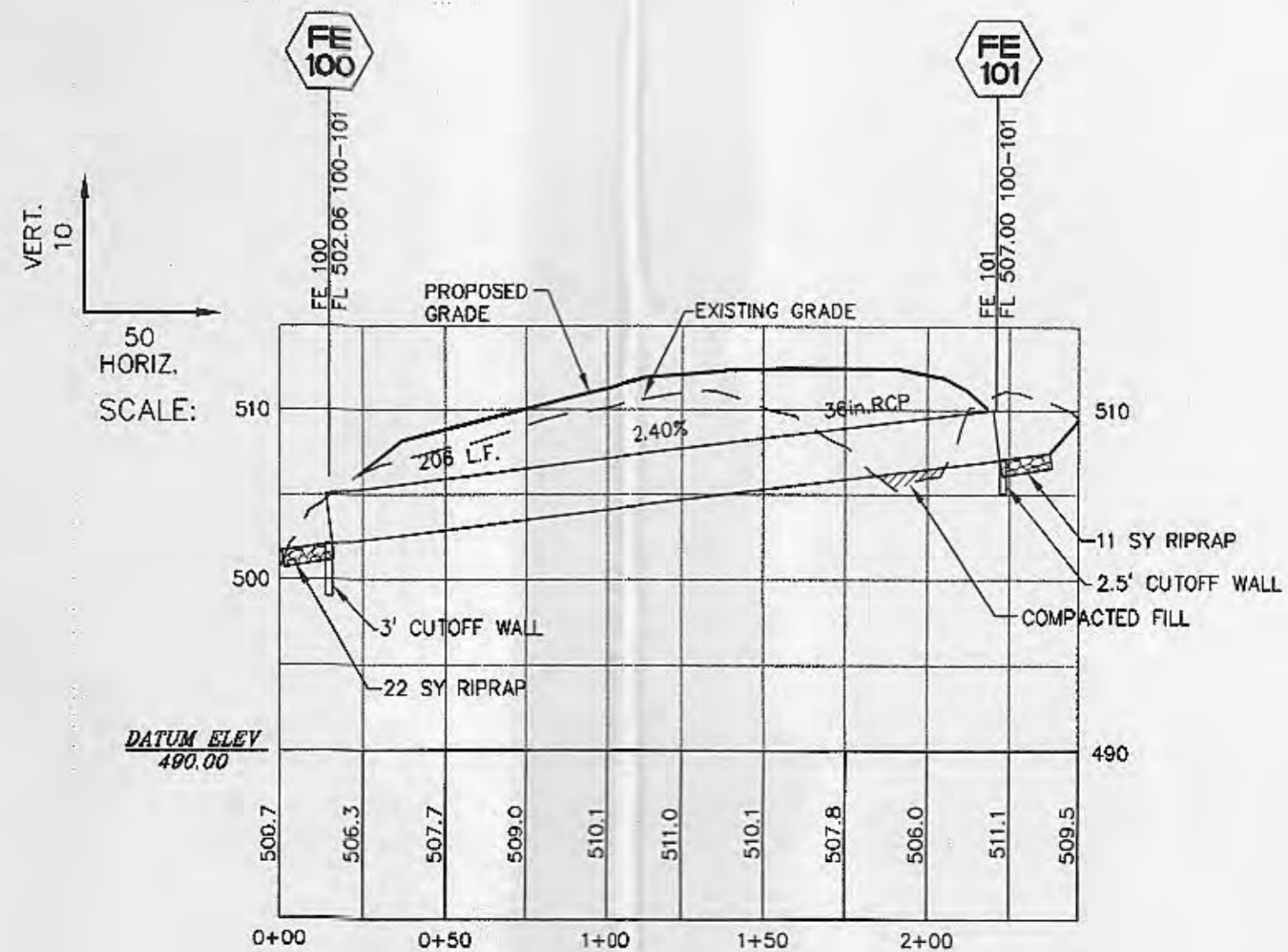
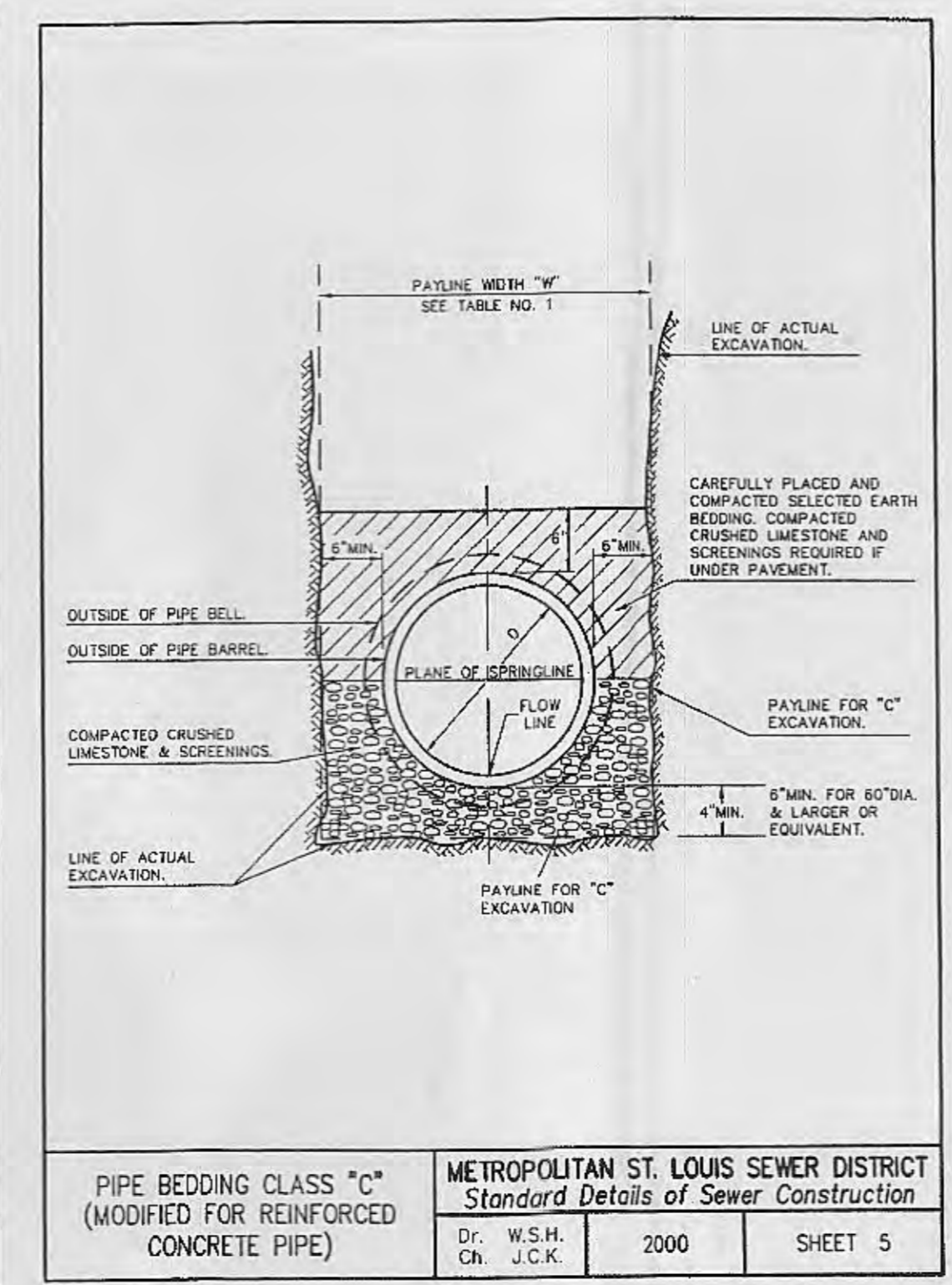
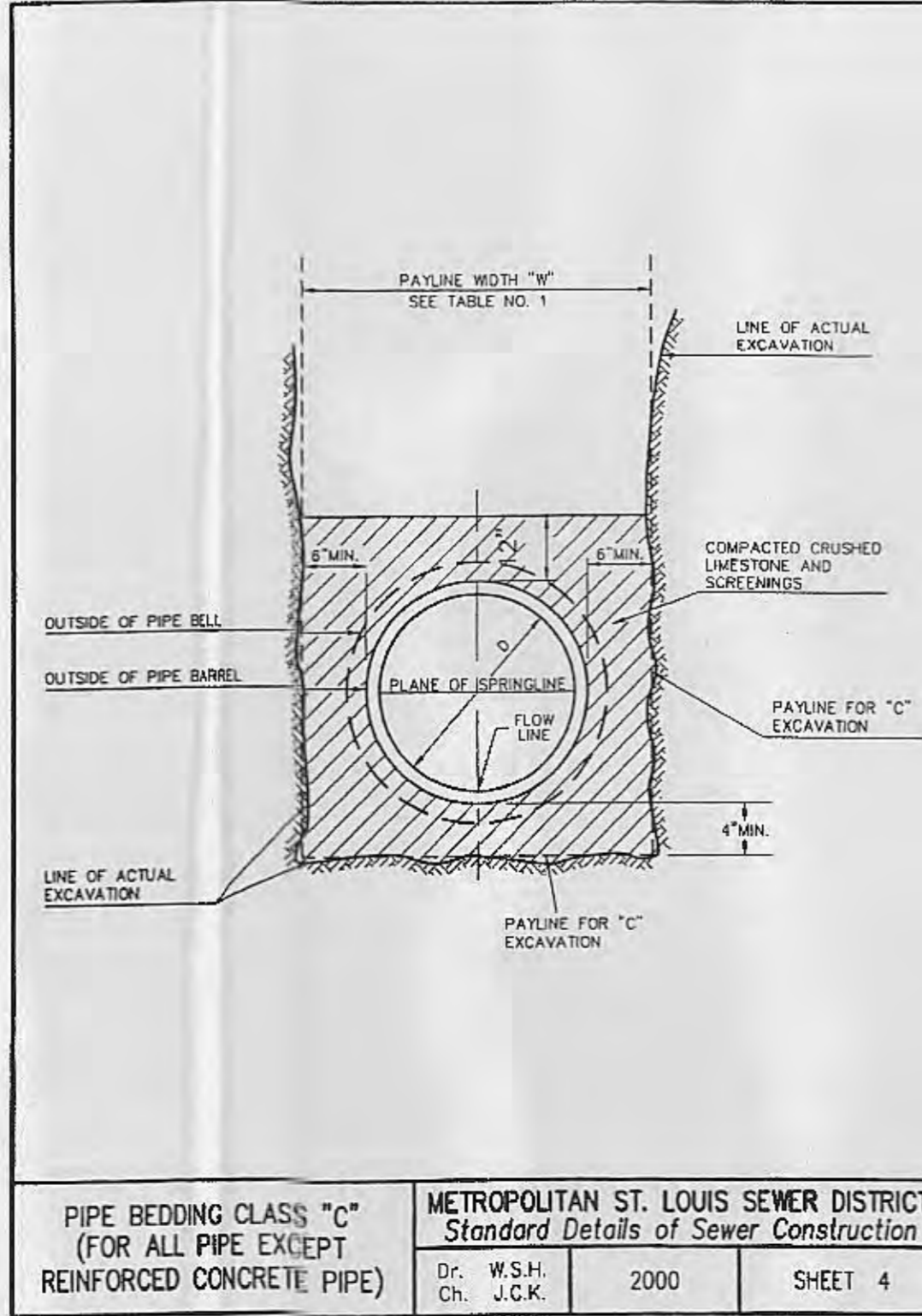
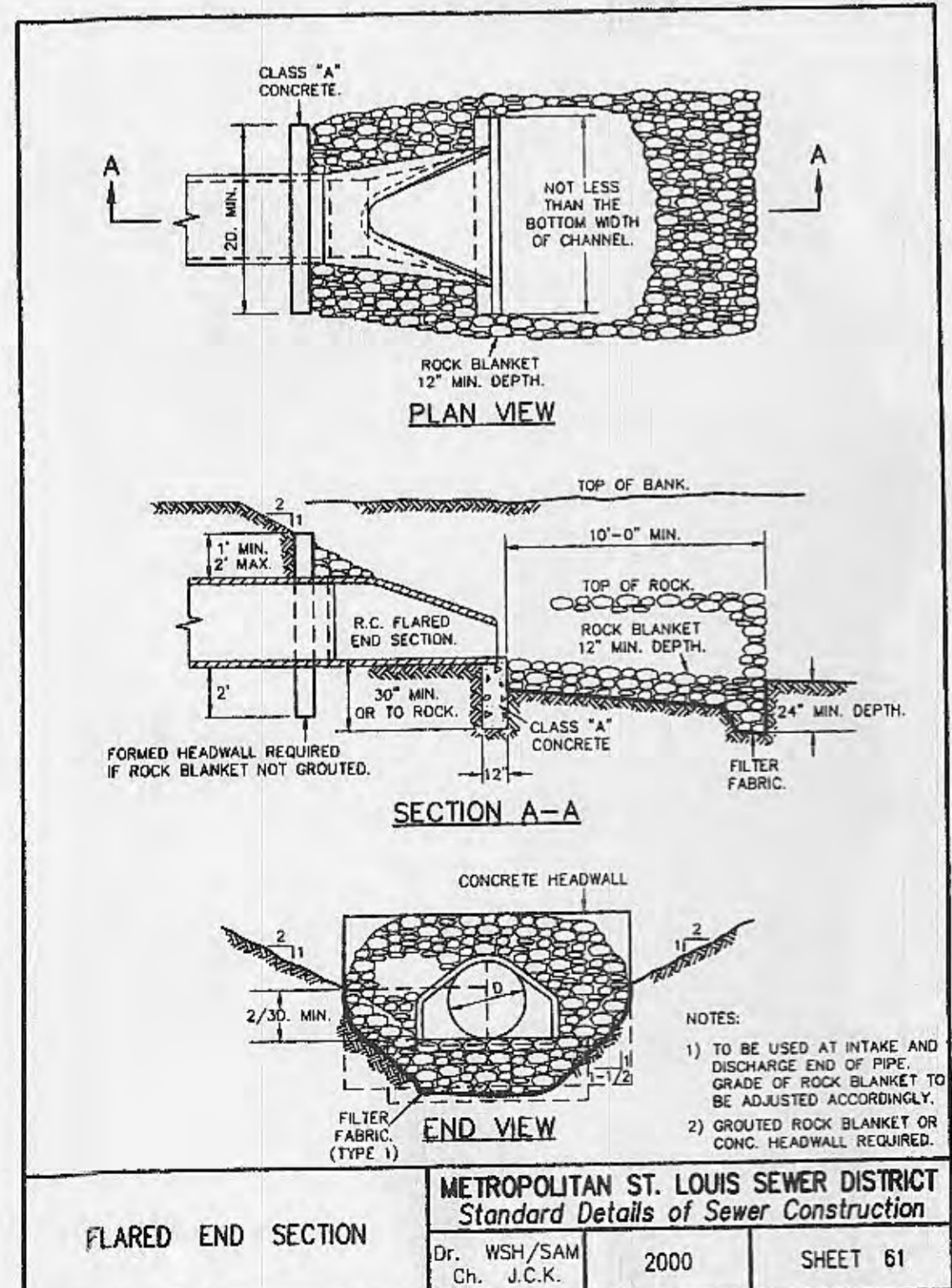
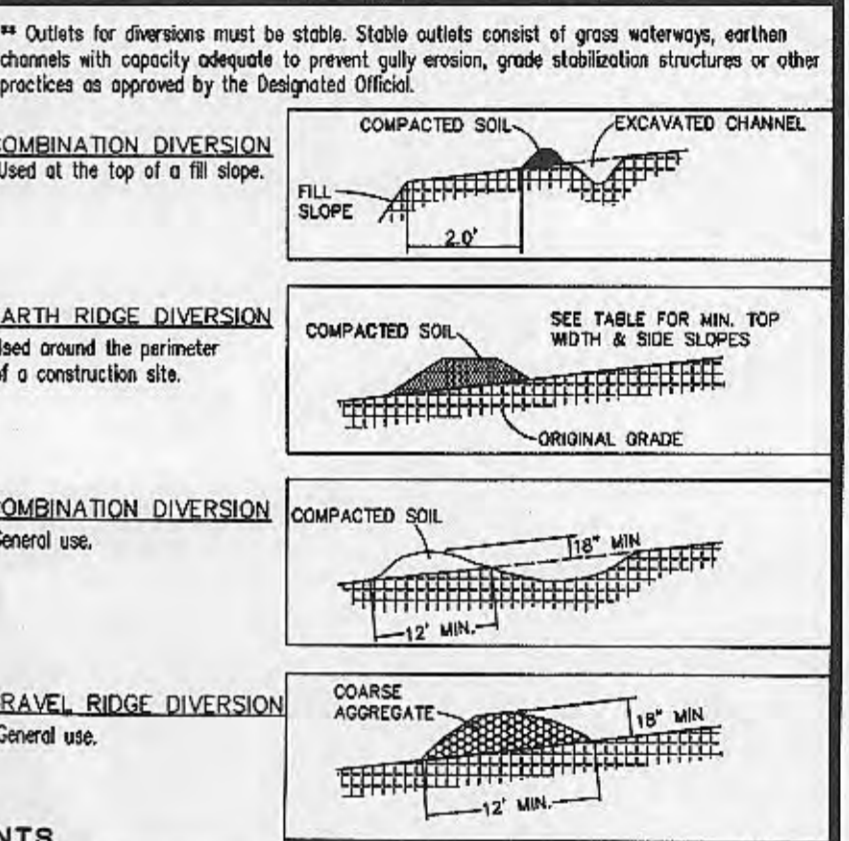
- 100 lbs. Per 1,000 sq. ft. (4,356 lbs. per acre)

**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.

**DIVERSION SWALES**



<b>METROPOLITAN ST. LOUIS SEWER DISTRICT</b>			
Standard Details of Sewer Construction			
Dr. WSH/SAM	2000	SHEET 61	
Ch. J.C.K.			

<b>METROPOLITAN ST. LOUIS SEWER DISTRICT</b>			
Standard Details of Sewer Construction			
Dr. WSH/SAM	2000	SHEET 4	
Ch. J.C.K.			

<b>METROPOLITAN ST. LOUIS SEWER DISTRICT</b>			
Standard Details of Sewer Construction			
Dr. WSH/SAM	2000	SHEET 5	
Ch. J.C.K.			

REV PER CITY AND CLIENT COMMENTS  
3-02-05  
4-12-05

**ELK RIDGE DETAILS / EROSION CONTROL PLAN IMPROVEMENT PLAN**

**ST. CHARLES ENGINEERING & SURVEYING, INC.**  
801 S. FIFTH STREET, SUITE 202  
ST. CHARLES, MO 63301  
TEL: (636) 947-0607 FAX: (636) 947-2448

**S E S**

ORDER NO. 040486  
DATE 02/01/05  
IG-3