

**VEGETATIVE ESTABLISHMENT FOR URBAN DEVELOPMENT SITES**

**APPENDIX A**

**SEEDING RATES:**

Permanent:  
Tall Fescue - 30 lbs./ac.  
Smooth Brome - 20 lbs./ac.  
Combined Fescue/Brome - 15 lbs./ac. and Brome#10 lbs./ac.

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

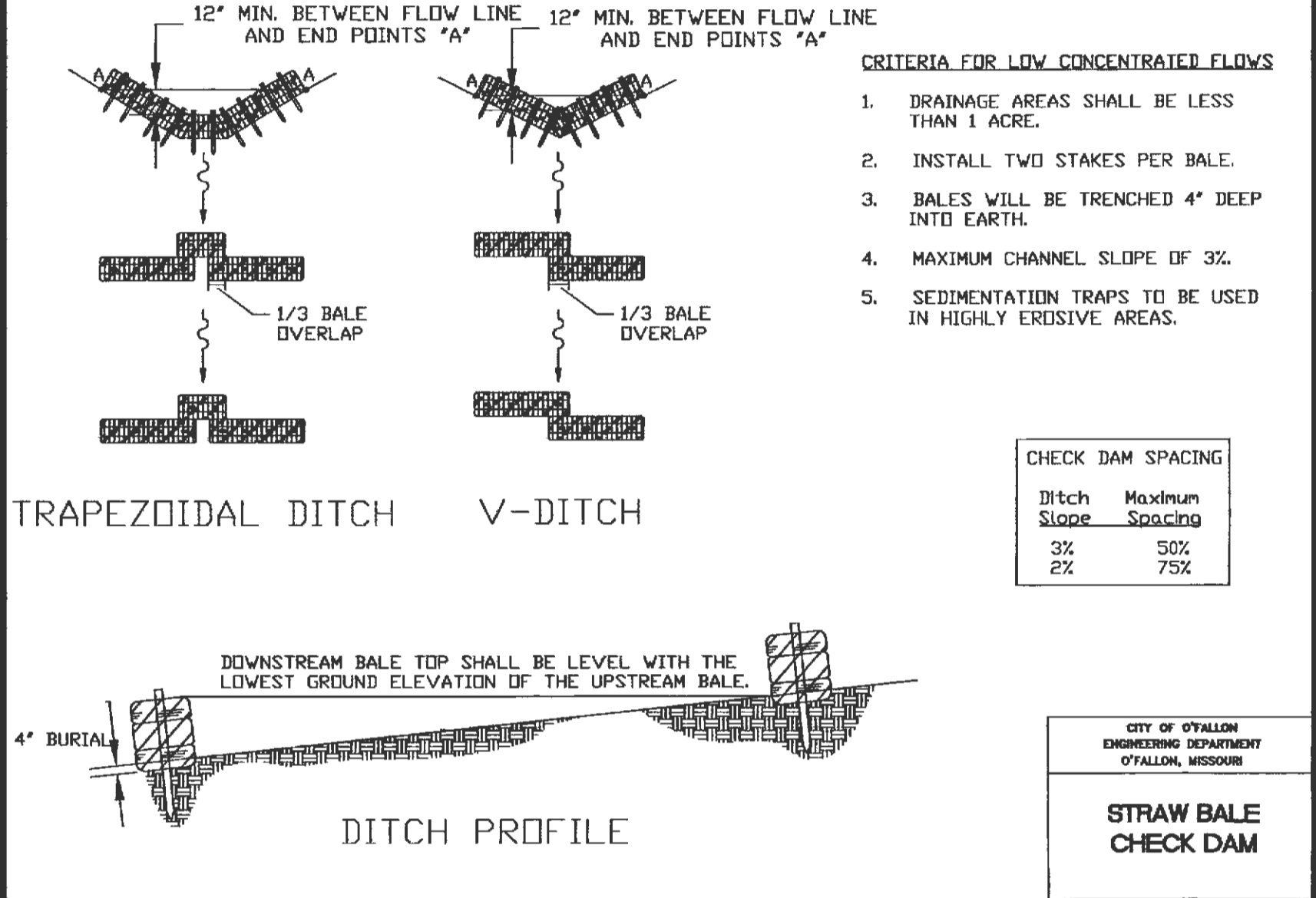
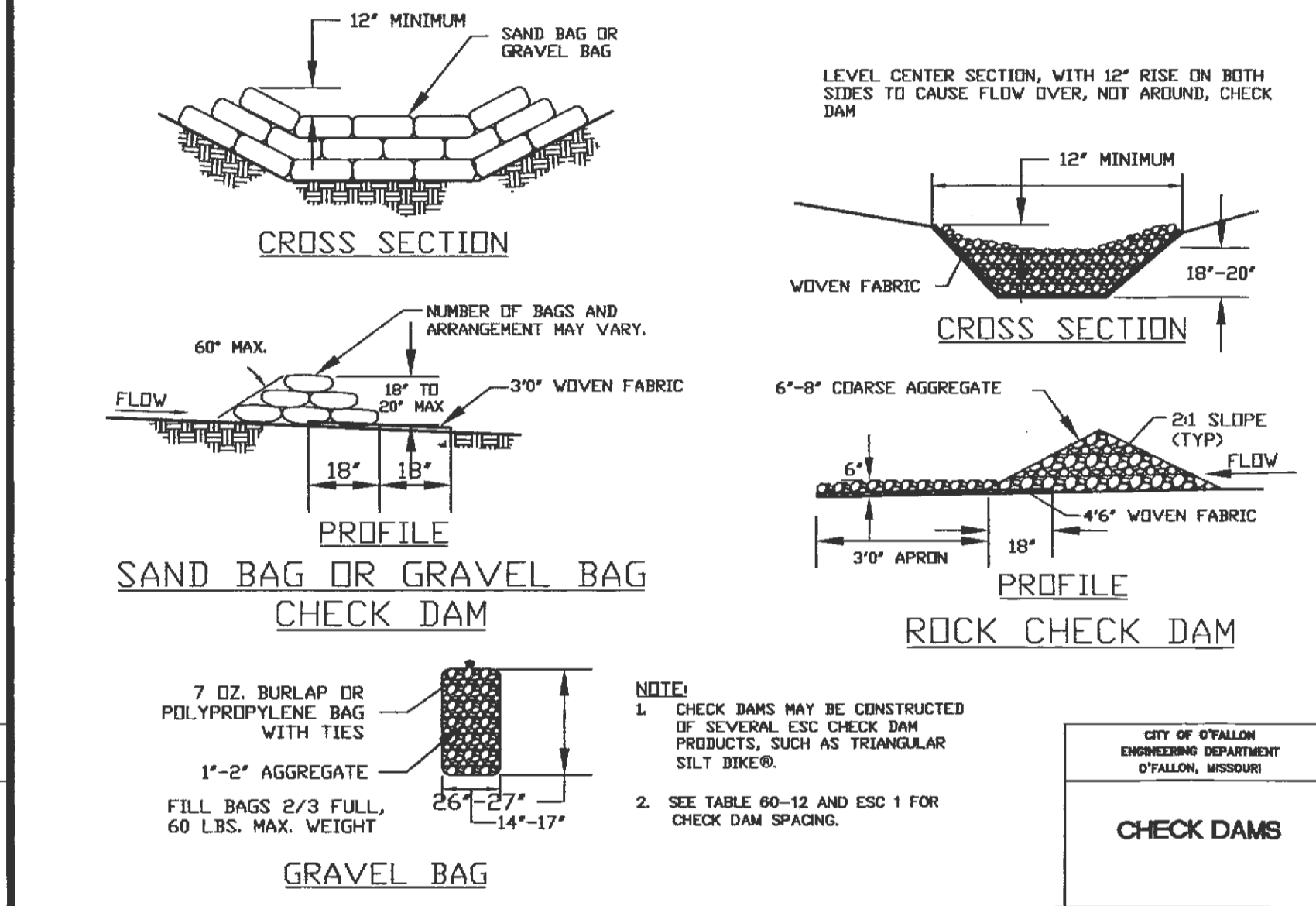
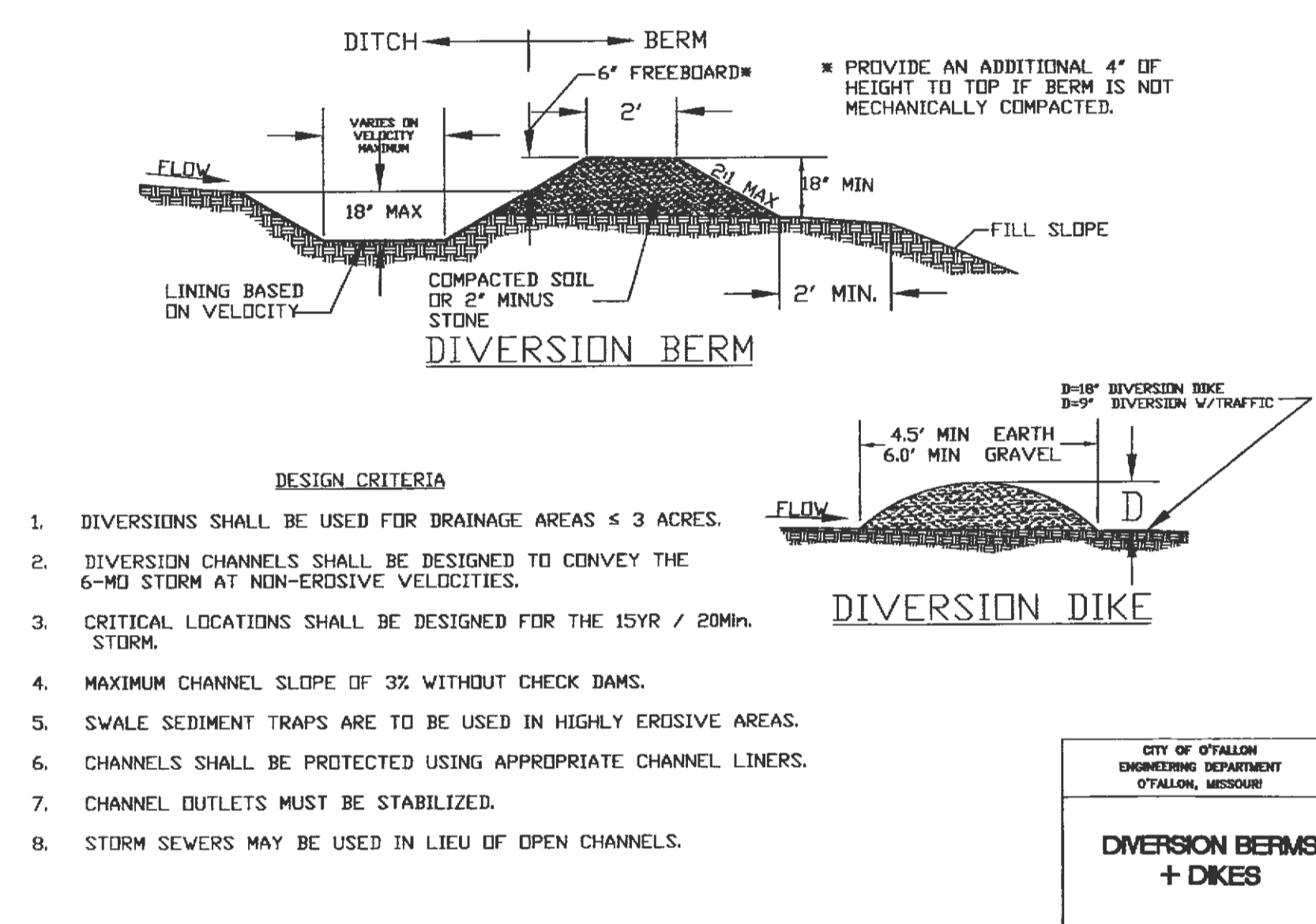
**SEEDING PERIODS**

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

**MULCH RATES:** 100 lbs. per 1000 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.



**DISCLAIMER OF RESPONSIBILITY**

I hereby specify that the documents intended to be authorized by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey.

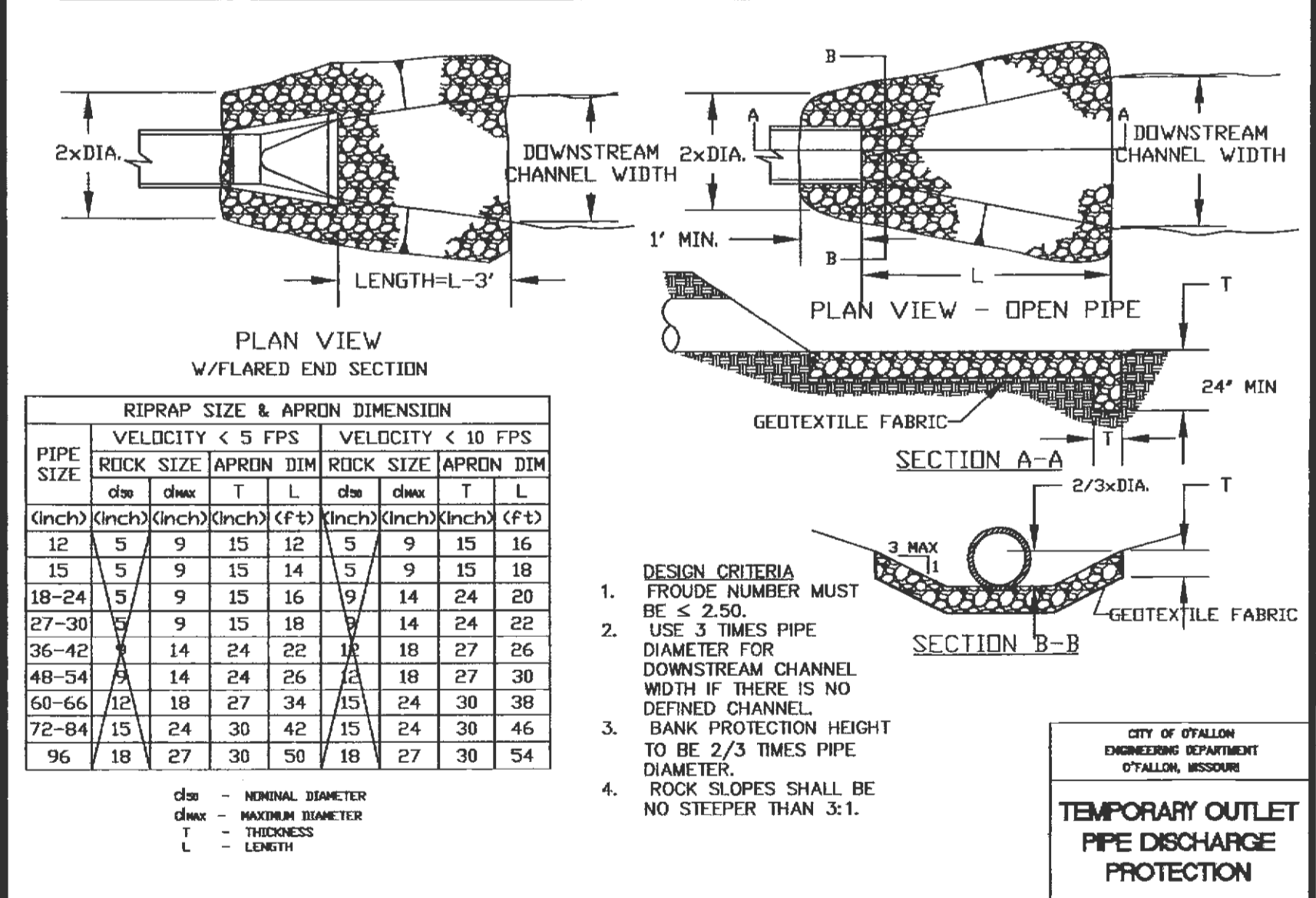
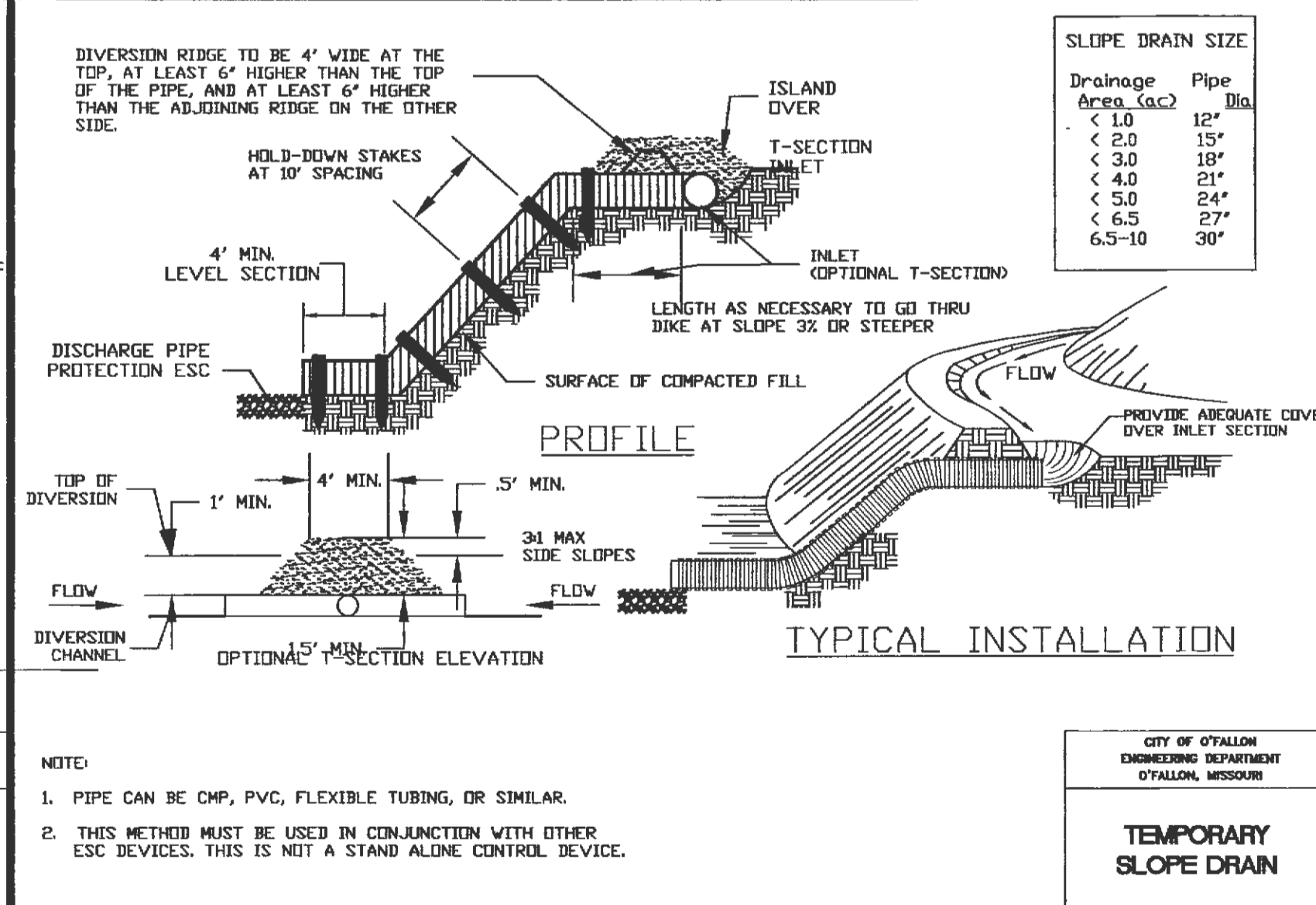
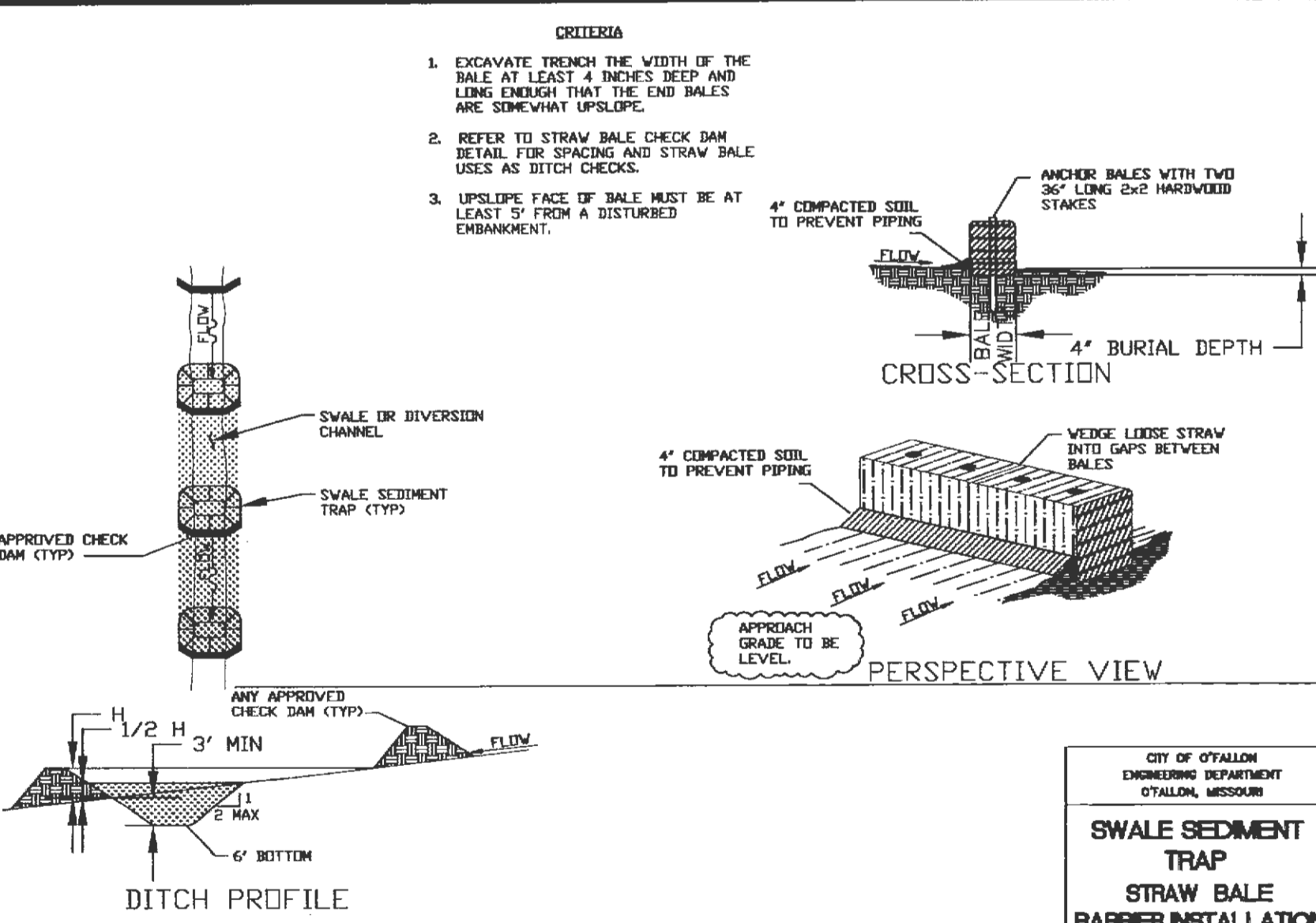
**STATE OF MISSOURI**

**JEFFREY R. SMITH, P.E.**

Professional Engineer License No. 2001004672

8-7-14  
9-12-14  
9-18-14

**JEFFREY R. SMITH, P.E.**  
MO. P.E. # E-2001004672



**DIVERSIONARY SWALE COMPUTATIONS FOR VARIOUS SLOPES**

DEPTH = 0.5'	DEPTH = 0.5'	DEPTH = 0.5'
SLOPE = 2.0%	SLOPE = 3.0%	SLOPE = 6.0%
n = .03	n = .03	n = .03
A = 3.75	A = 3.75	A = 3.75
WP = 9.16	WP = 9.16	WP = 9.16
R = 0.41	R = 0.41	R = 0.41
Q = 14.50	Q = 17.75	Q = 25.11
V = 3.87	V = 4.74	V = 6.70

**PROJECT TITLE:** J & A RETAIL

**REVISION:**

**MUSLER ENGINEERING COMPANY**

CIVIL ENGINEERING - PLANNING - LAND SURVEYING  
32 Portwest Court, St. Charles, Missouri 63303  
Telephone: (636) 918-0444  
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CITY OF O'FALLON ENGINEERING DEPARTMENT O'FALLON, MISSOURI

**DATE:** AUG. 2014  
**DRAWN:** J.R.S.  
**CHECKED:** J.R.S.  
**PROJECT NO.:** 13-1387  
**SHEET NO.:** 12 OF 12

**PREPARED FOR:** CONFLUENCE DESIGN GROUP, LLC  
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**P & Z No.** 5001.09.02  
**City No.**

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