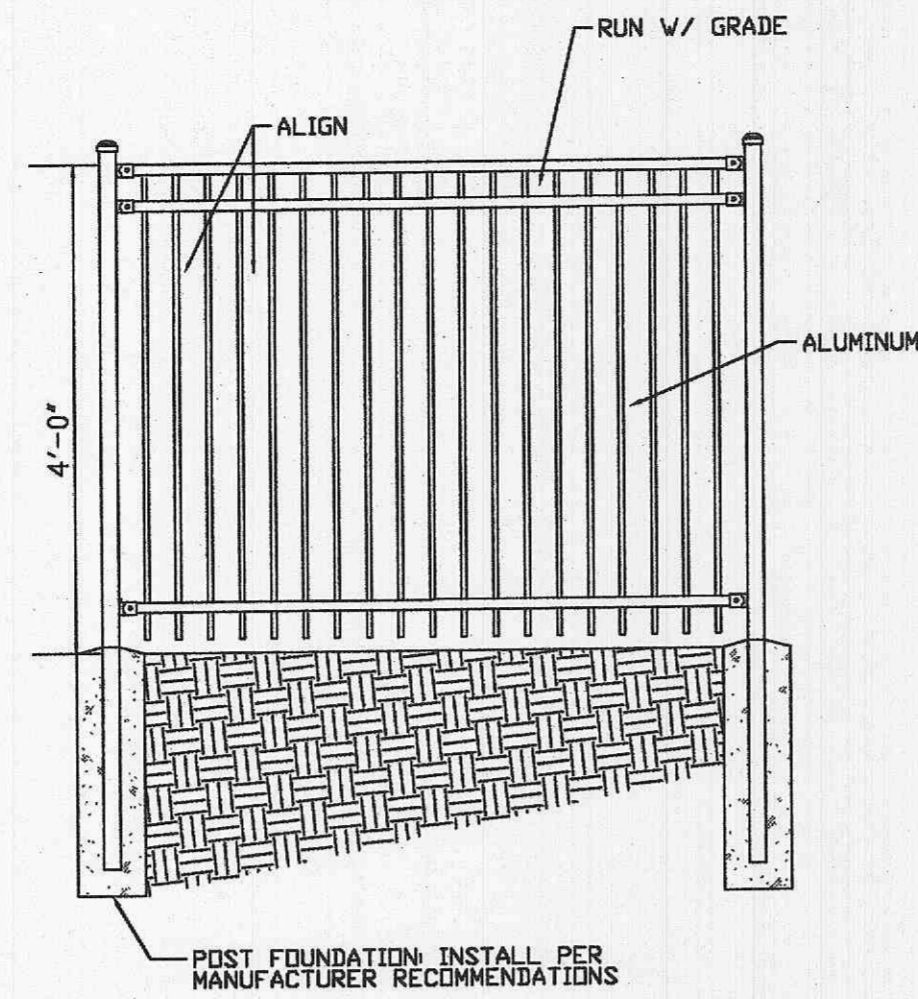


1 TYP. LOT FLOW PATTERN DETAIL
SCALE: N.T.S. REF. DWG.

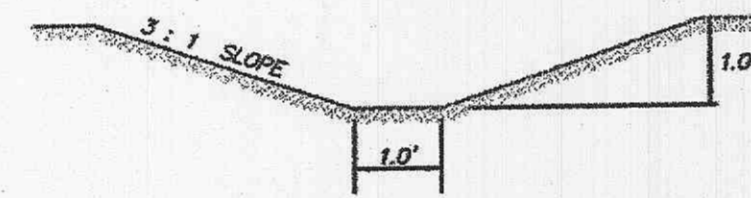


NOTE:
1. FENCE TO BE INSTALLED ON ALL RETAINING WALLS OVER 4 FEET IN HEIGHT.
2. A FENCE PERMIT FROM COMMUNITY DEVELOPMENT IS REQUIRED PRIOR TO INSTALLATION OF FENCING

2 ALUMINUM FENCE DETAIL
SCALE: N.T.S. REF. DWG.

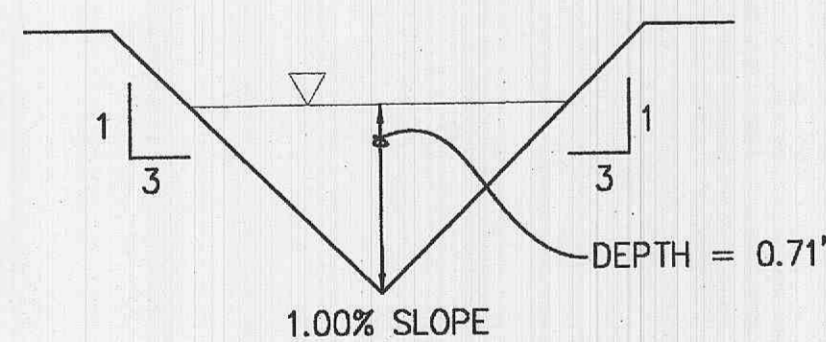
TYPICAL TEMPORARY DIVERSION SWALE

SWALE IS TO BE SEEDED.



DIVERSION SWALE
N.T.S.
n = 0.02

SWALE @ 1.0% - Q = 19.86 c.f.s.
SWALE @ 10.0% - Q = 62.79 c.f.s.

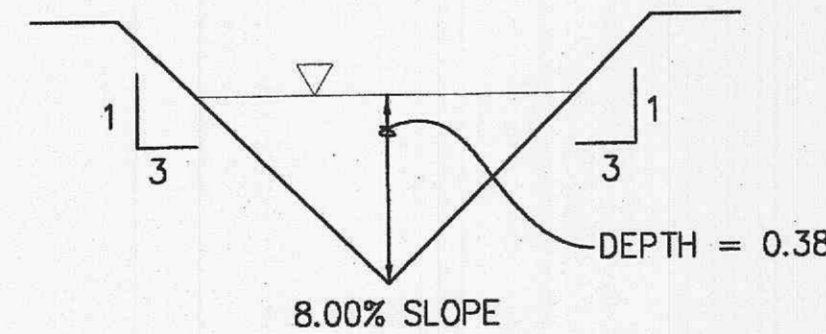


TRAPEZOIDAL CHANNEL ANALYSIS
NORMAL DEPTH COMPUTATION
TYPICAL YARD SWALE WITH 1% SLOPE

September 21, 2007

PROGRAM INPUT DATA	
DESCRIPTION	VALUE
Flow Rate (cfs)	4.0
Channel Bottom Slope (ft/ft)	0.01
Manning's Roughness Coefficient (n-value)	0.027
Channel Left Side Slope (horizontal/vertical)	3.0
Channel Right Side Slope (horizontal/vertical)	3.0
Channel Bottom Width (ft)	0.01
COMPUTATION RESULTS	
DESCRIPTION	VALUE
Normal Depth (ft)	0.71
Flow Velocity (fps)	2.66
Froude Number	0.789
Velocity Head (ft)	0.11
Energy Head (ft)	0.82
Cross-Sectional Area of Flow (sq ft)	1.50
Top Width of Flow (ft)	4.25

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Dodson & Associates, Inc., 5629 FM 1960 West, Suite 314, Houston, TX 77069
Phone: (281) 440-3787, Fax: (281) 440-4742, Email: software@dodson-hydro.com
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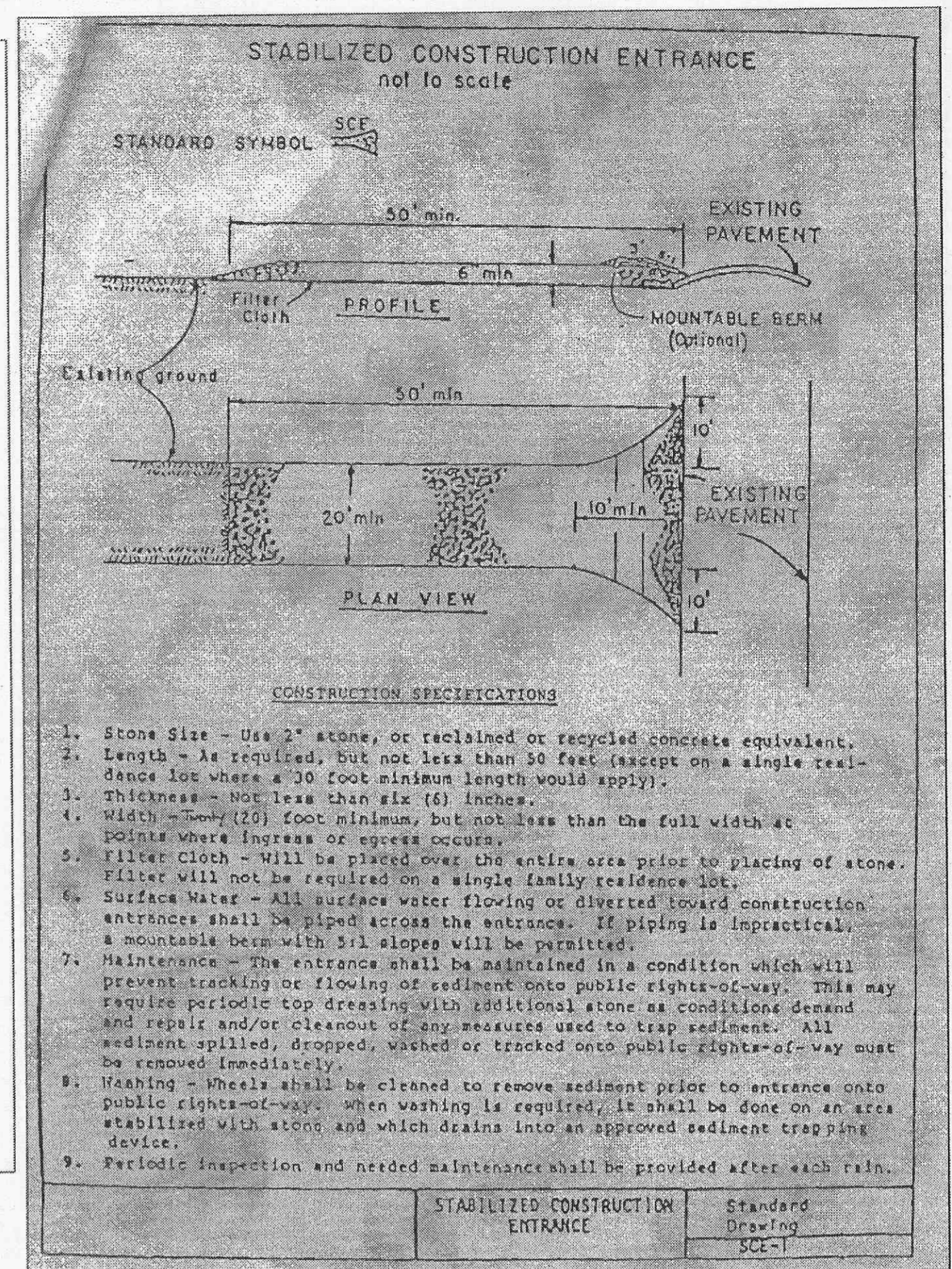
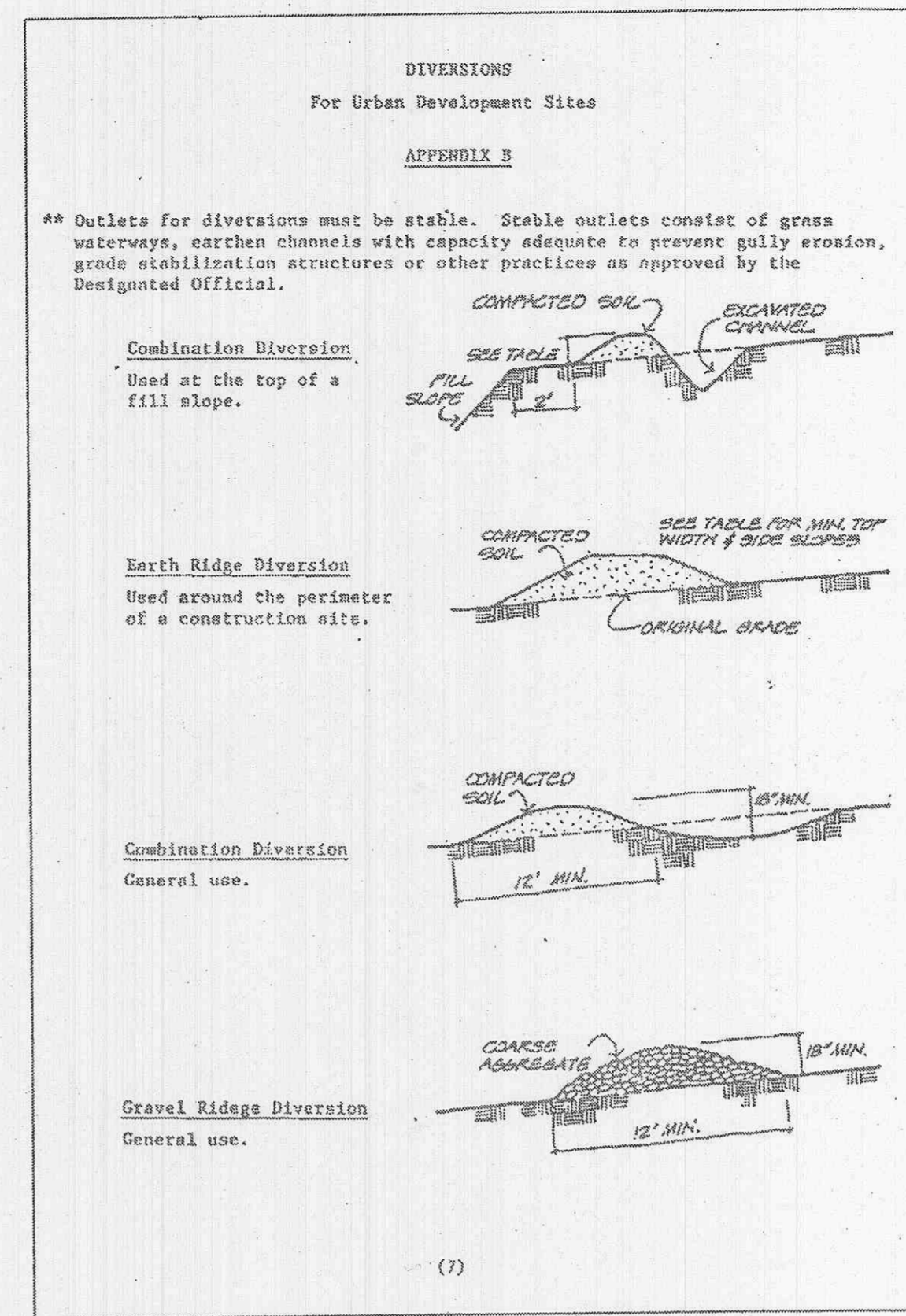
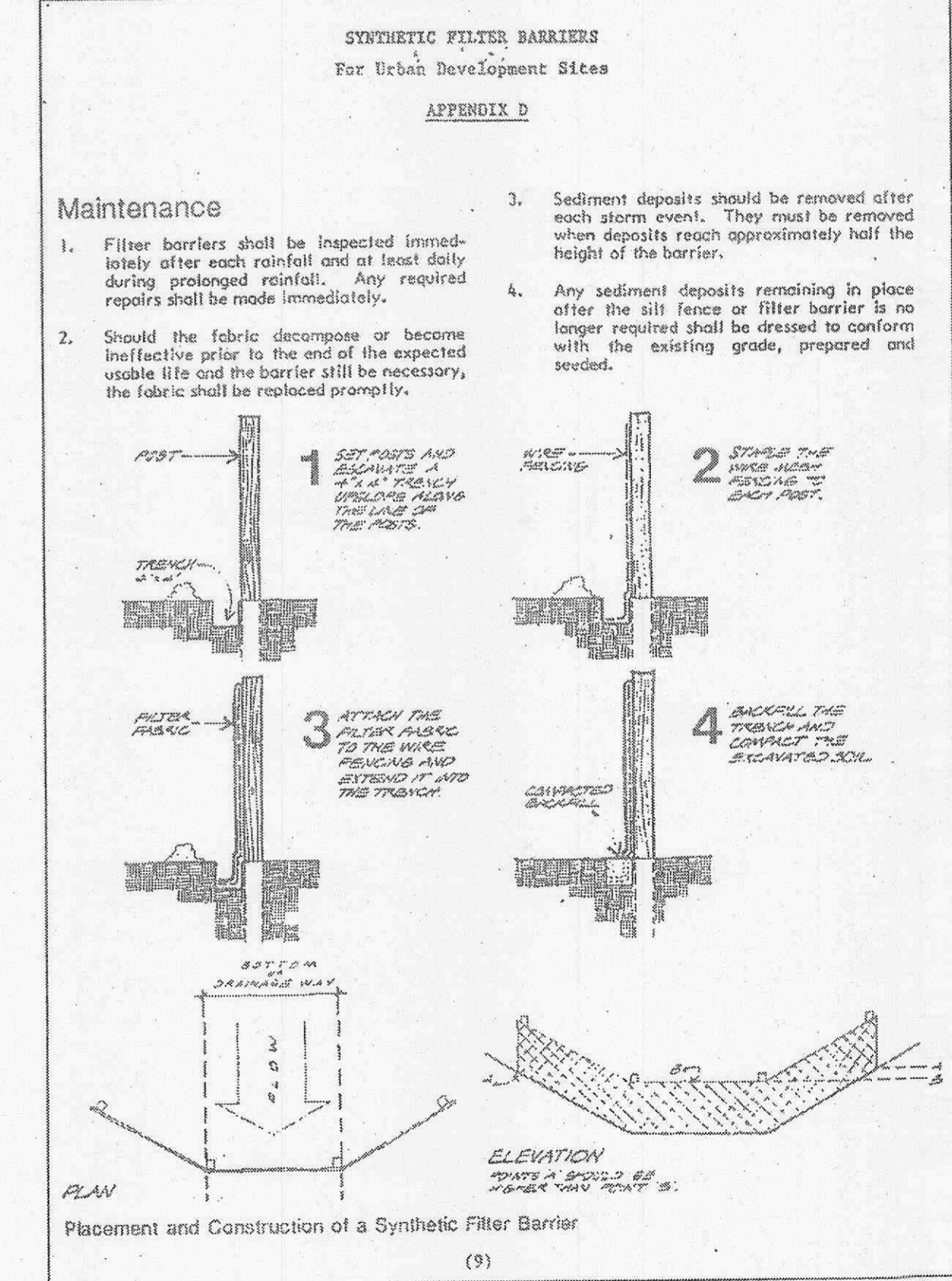
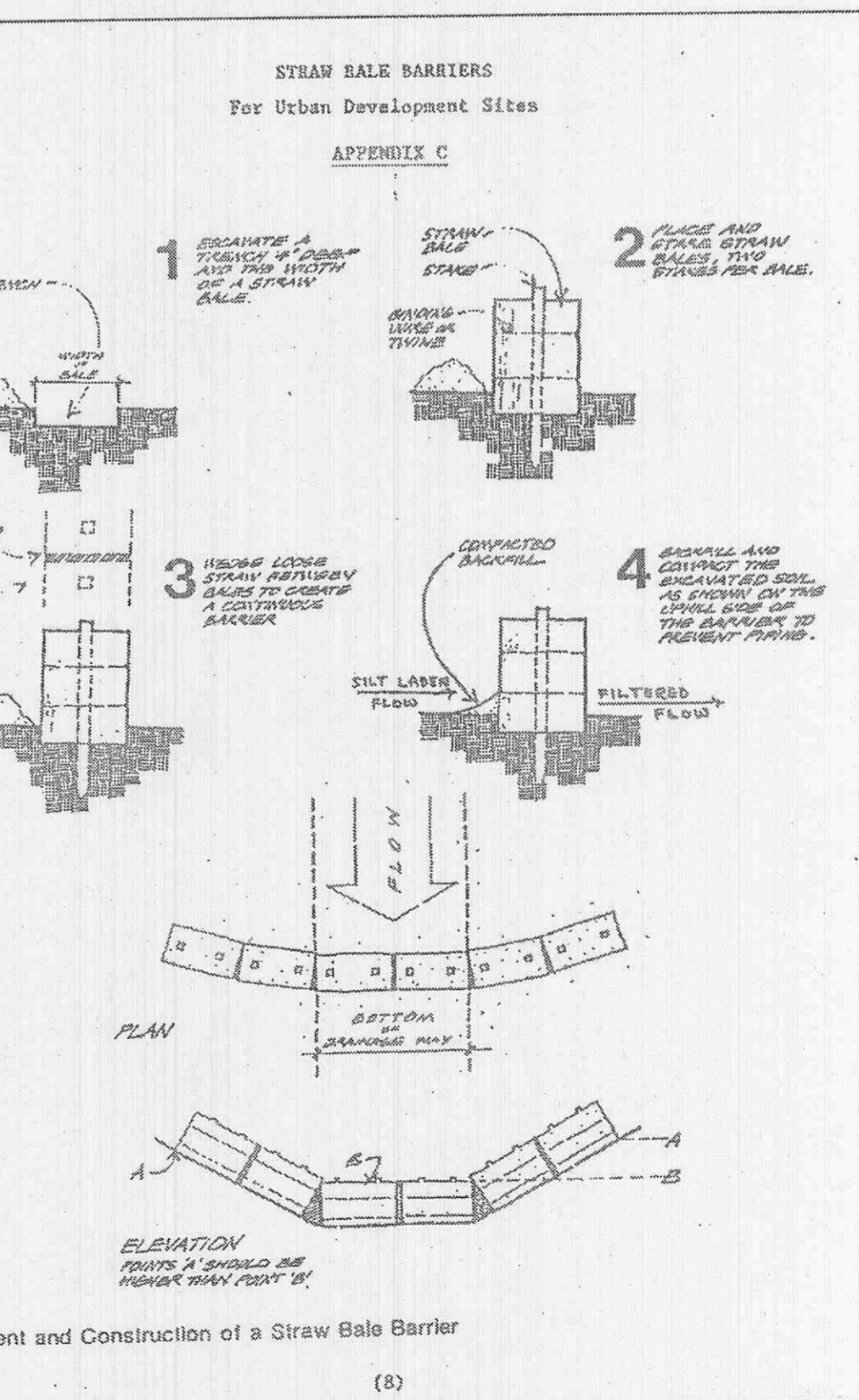


TRAPEZOIDAL CHANNEL ANALYSIS
NORMAL DEPTH COMPUTATION
TYPICAL YARD SWALE WITH 8% SLOPE

September 26, 2007

PROGRAM INPUT DATA	
DESCRIPTION	VALUE
Flow Rate (cfs)	2.16
Channel Bottom Slope (ft/ft)	0.08
Manning's Roughness Coefficient (n-value)	0.027
Channel Left Side Slope (horizontal/vertical)	3.0
Channel Right Side Slope (horizontal/vertical)	3.0
Channel Bottom Width (ft)	0.01
COMPUTATION RESULTS	
DESCRIPTION	VALUE
Normal Depth (ft)	0.38
Flow Velocity (fps)	4.99
Froude Number	2.02
Velocity Head (ft)	0.39
Energy Head (ft)	0.77
Cross-Sectional Area of Flow (sq ft)	0.43
Top Width of Flow (ft)	2.28

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

LAWYER SITE DETAIL SHEET 13.0
DATE: 09/21/2007 11:13am
DRAWING: S:\JOBS\2007\07-0078\07-0078.dwg IMPROVEMENT PLANS\01_PLAN_C10.9_DETAILS_07-075.dwg

REVISIONS

NO.	DATE	DESCRIPTION
1	09/21/2007	ISSUE FOR PERMITS
2	09/21/2007	CITY OF FALLON/ISSUE FOR PERMITS
3	09/21/2007	CITY OF FALLON/ISSUE FOR PERMITS
4	09/21/2007	CITY OF FALLON/ISSUE FOR PERMITS

DEVELOPER/OWNER:
THE VILLAGE AT PARK PLACE, LLC.
1001 BOARDWALK SPRINGS PL
O'FALLON, MO 63366
PHONE: (636) 567-9323

SEAL: [Professional Engineer Seal for Matthew R. Koester]

PLANNING AND DEVELOPMENT DEPARTMENT FILE #9831.57 (AREA PLAN-APPROVED MAY 24TH, ORDINANCE #5178) - 9831.57.01 (FINAL PLAN)

PARK AVENUE VILLAGE IMPROVEMENT PLANS
PHOENIX PARKWAY
O'FALLON, MO

GOLE and ASSOCIATES INCORPORATED
10777 sunset office drive
saint louis, missouri 63127
p. 314 984 9887 f. 314 984 0587

DESIGNED BY: CJB
DRAWN BY: KDK
CHECKED BY: JFH
DATE: 11/6/07
Job Number: 07-075
Sheet Number: C10.9

SITE DETAILS