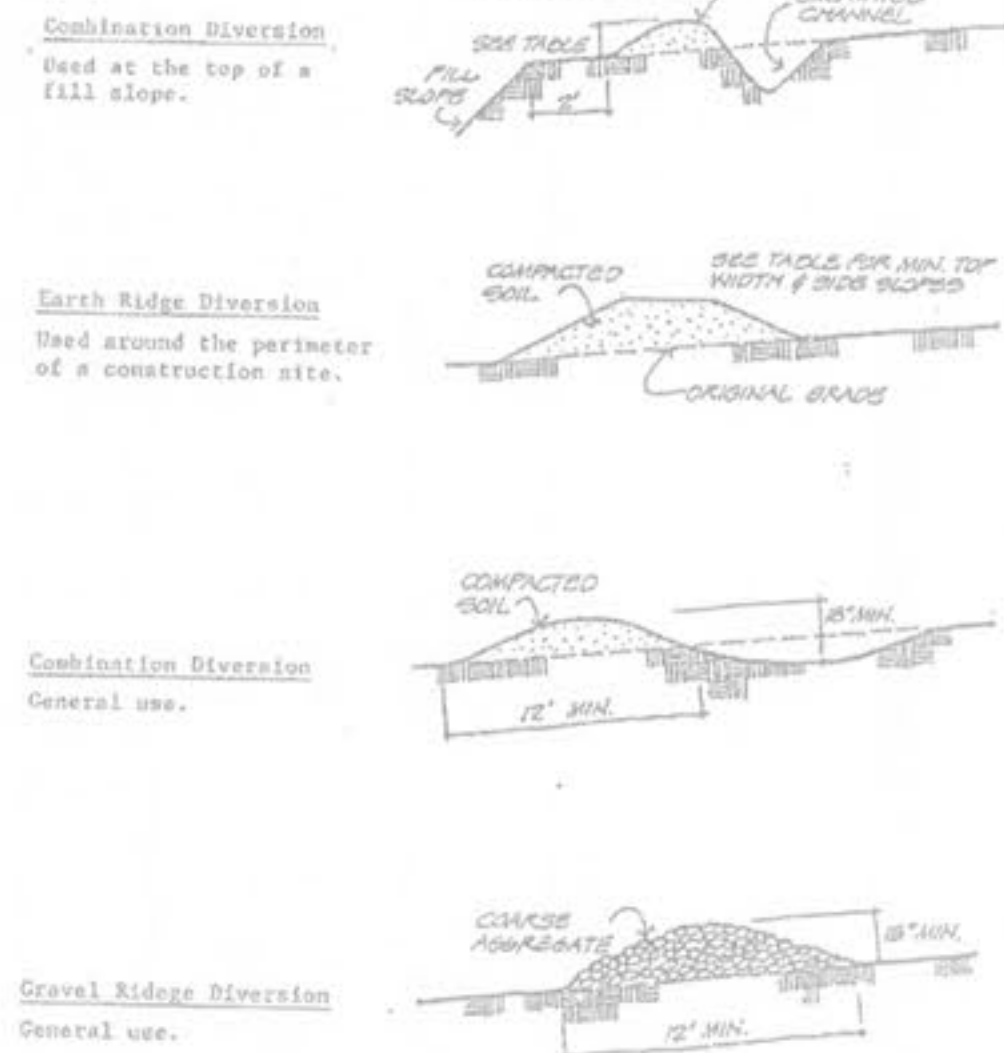


DIVERSIONS
For Urban Development Sites

APPENDIX B

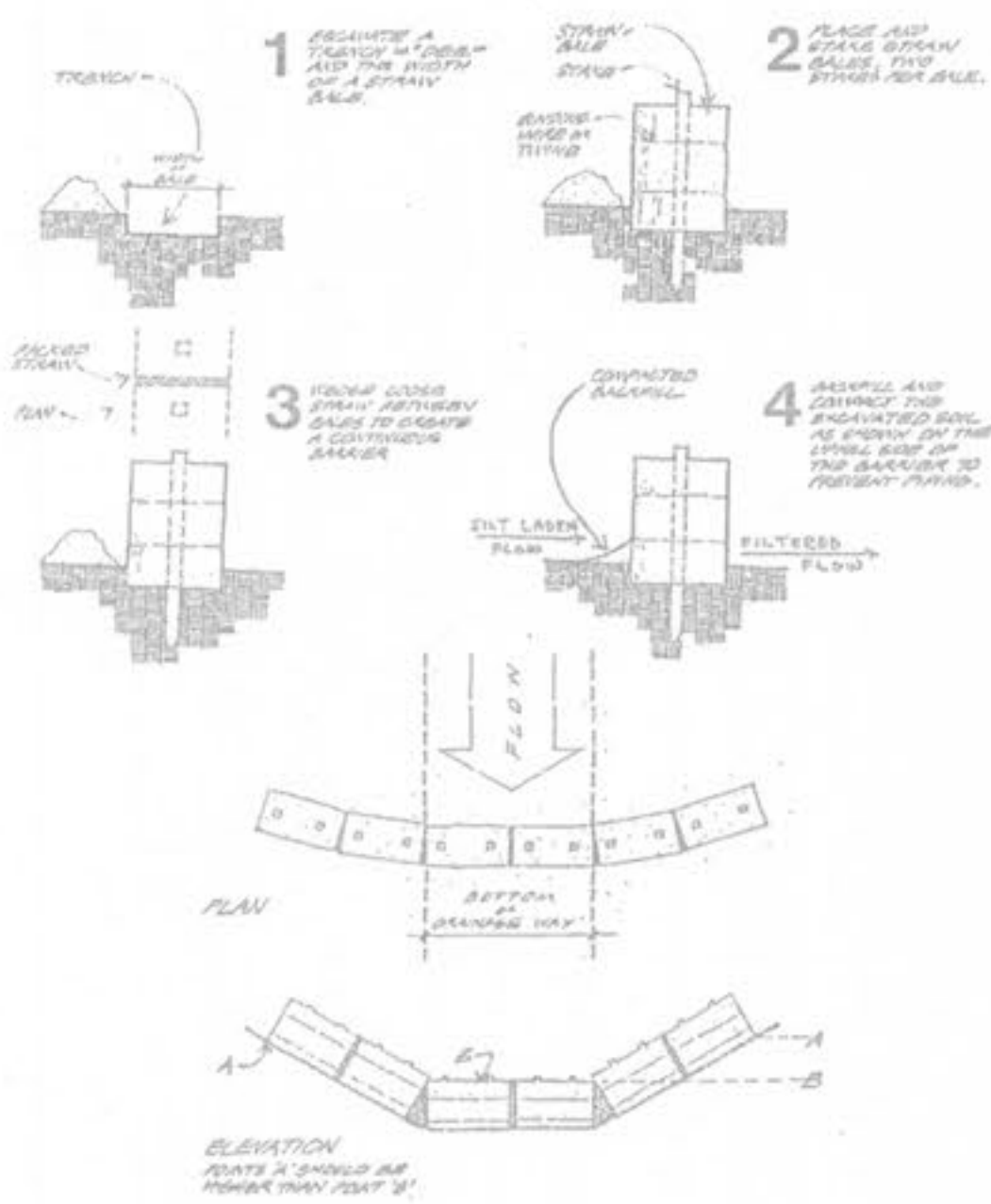
Outlets for diversions must be stable. Stable outlets consist of grass waterways, earthen channels with capacity adequate to prevent gully erosion, grade stabilization structures or other practices as approved by the Designated Official.



(7)

STRAW BALE BARRIERS
For Urban Development Sites

APPENDIX C



Placement and Construction of a Straw Bale Barrier

(8)

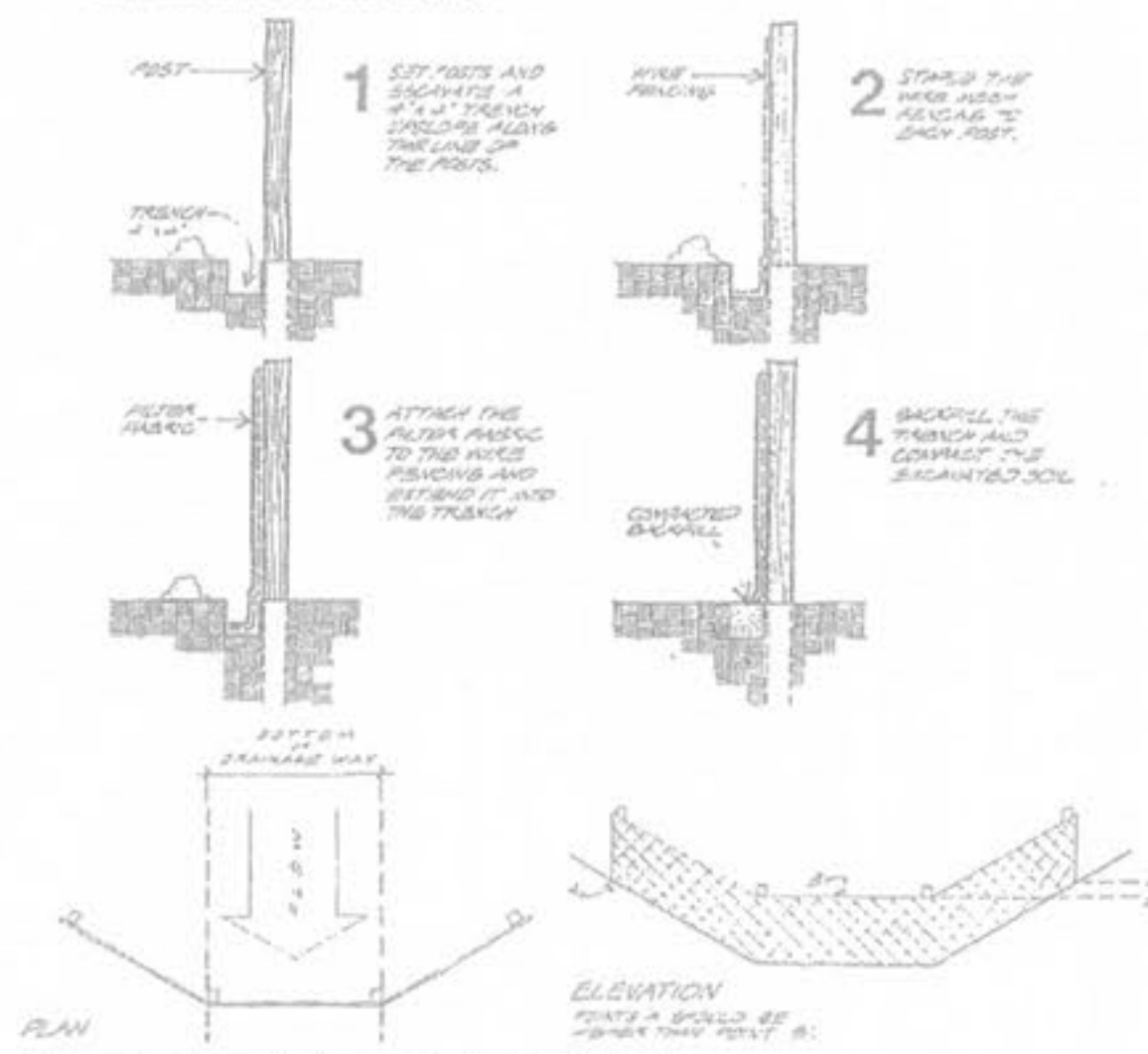
TYPICAL DITCH CHECK DETAIL

SYNTHETIC FILTER BARRIERS
For Urban Development Sites

APPENDIX D

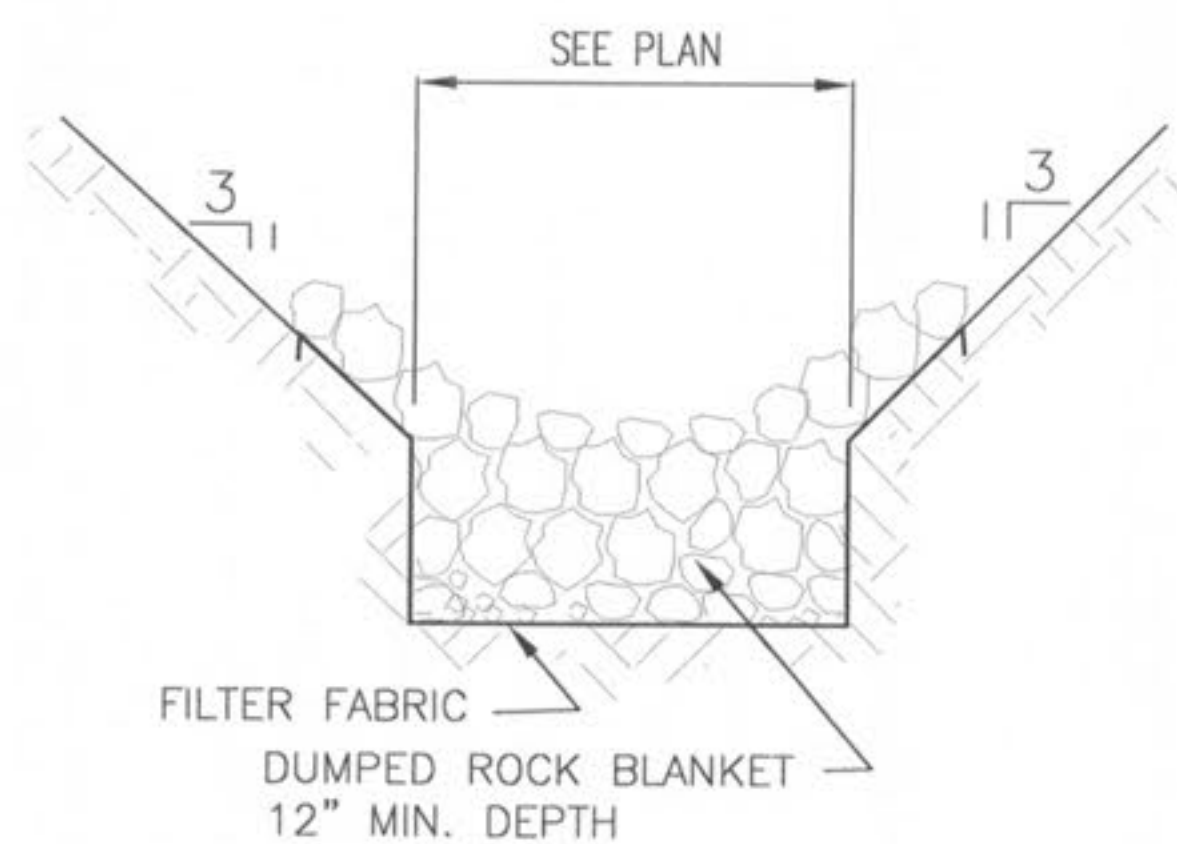
Maintenance

- 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 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.
- 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.



Placement and Construction of a Synthetic Filter Barrier

(9)

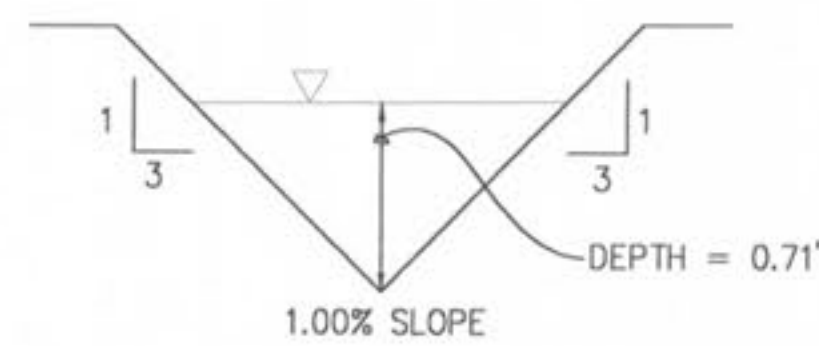


NOTE: DUMPED ROCK BLANKET TO BE A MIN. 12" DIA. QUARRY RUN STONE.

3 ROCK BLANKET DETAIL

SCALE: N.T.S.

REF. DWG.



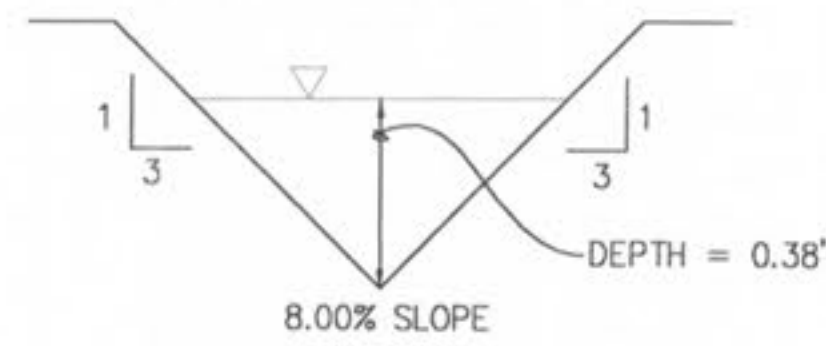
TRAPEZOIDAL CHANNEL ANALYSIS
NORMAL DEPTH COMPUTATION
TYPICAL YARD SWALE WITH 1% SLOPE

September 21, 2007

DESCRIPTION	PROGRAM INPUT DATA	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

DESCRIPTION	COMPUTATION RESULTS	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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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

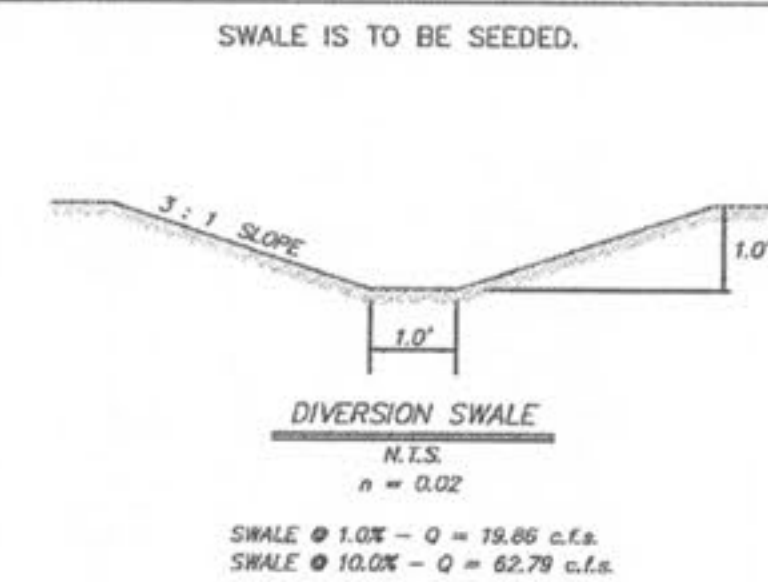
September 26, 2007

DESCRIPTION	PROGRAM INPUT DATA	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

DESCRIPTION	COMPUTATION RESULTS	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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TYPICAL TEMPORARY DIVERSION SWALE



REVISIONS

DATE	BY	DESCRIPTION
12/18/07	JKW	OWNER COMMENTS/DTY COMMENTS
7/17/06	JKW	DTY COMMENTS

DEVELOPER/OWNER:
THE JONES COMPANY HOMES, L.L.C.
16640 CHESTERFIELD GROVE, SUITE 200
CHESTERFIELD, MO 63005
PHONE: (636) 537-7192



PRESTON WOODS - PHASE III
MASS GRADING PLANS
+ PARTIAL STORM SEWER
ST. CHARLES, MO. 63366

planning • engineering • surveying • landscape architecture
COLE and ASSOCIATES
INCORPORATED
10777 sunset office dr.
saint louis, missouri 63127
p: 314 984 9887 f: 314 984 0687

DESIGNED BY
JKW

DRAWN BY
JKW

CHECKED BY
JFH

DATE
8/13/07

Job Number
07-0178

Sheet Number
G6.1

DETAILS