



TRAPEZOIDAL CHANNEL ANALYSIS
NORMAL DEPTH COMPUTATION
October, 11 2007

PROGRAM INPUT DATA	
DESCRIPTION	VALUE
Flow Rate (cfs).....	5.42
Channel Bottom Slope (ft/ft).....	0.005
Manning's Roughness Coefficient (n-value).....	0.027
Channel Left Side Slope (horizontal/vertical).....	0.18
Channel Right Side Slope (horizontal/vertical).....	0.06
Channel Bottom Width (ft).....	10.0

COMPUTATION RESULTS	
DESCRIPTION	VALUE
Normal Depth (ft).....	0.31
Flow Velocity (fps).....	1.73
Froude Number.....	0.546
Velocity Head (ft).....	0.05
Energy Head (ft).....	0.36
Cross-Sectional Area of Flow (sq ft).....	3.14
Top Width of Flow (ft).....	10.08

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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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DETAILS OF THE EXTENDED FOOTINGS WILL NEED TO BE SUBMITTED TO THE CITY OF O'FALLON BUILDING DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO ISSUANCE OF A BUILDING PERMIT

DATE	REVISIONS
9/24/07	OWNER/PM/SD/2/BUCKETT CREEK
9/14/07	OWNER/PM/SD/2/BUCKETT CREEK
9/14/07	OWNER/PM/SD/2/BUCKETT CREEK
10/12/07	OWNER/PM/SD/2/BUCKETT CREEK
10/19/07	OWNER/PM/SD/2/BUCKETT CREEK
10/23/07	OWNER/PM/SD/2/BUCKETT CREEK

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



PRESTON WOODS - PHASE II
IMPROVEMENT PLANS
PRESTON WOODS LANE
O'FALLON, MO. 63366

UTILITY CROSS SECTIONS

planning • engineering • surveying • landscape architecture
Cole and Associates
INCORPORATED
10777 sunset office dr.
saint louis, missouri 63127
p. 314 984 9887 f. 314 984 0587

DESIGNED BY: JKW
DRAWN BY: KDK
CHECKED BY: JFH
DATE: 6/14/07
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