

TRAPEZOIDAL CHANNEL ANALYSIS
NORMAL DEPTH COMPUTATION

March 25, 2014

DESCRIPTION	PROGRAM INPUT DATA	VALUE
Flow Rate (cfs)		6.54
Channel Bottom Slope (ft/ft)		0.07
Manning's Roughness Coefficient (n-value)		0.027
Channel Left Side Slope (horizontal/vertical)		5.0
Channel Right Side Slope (horizontal/vertical)		5.0
Channel Bottom Width (ft)		3.0

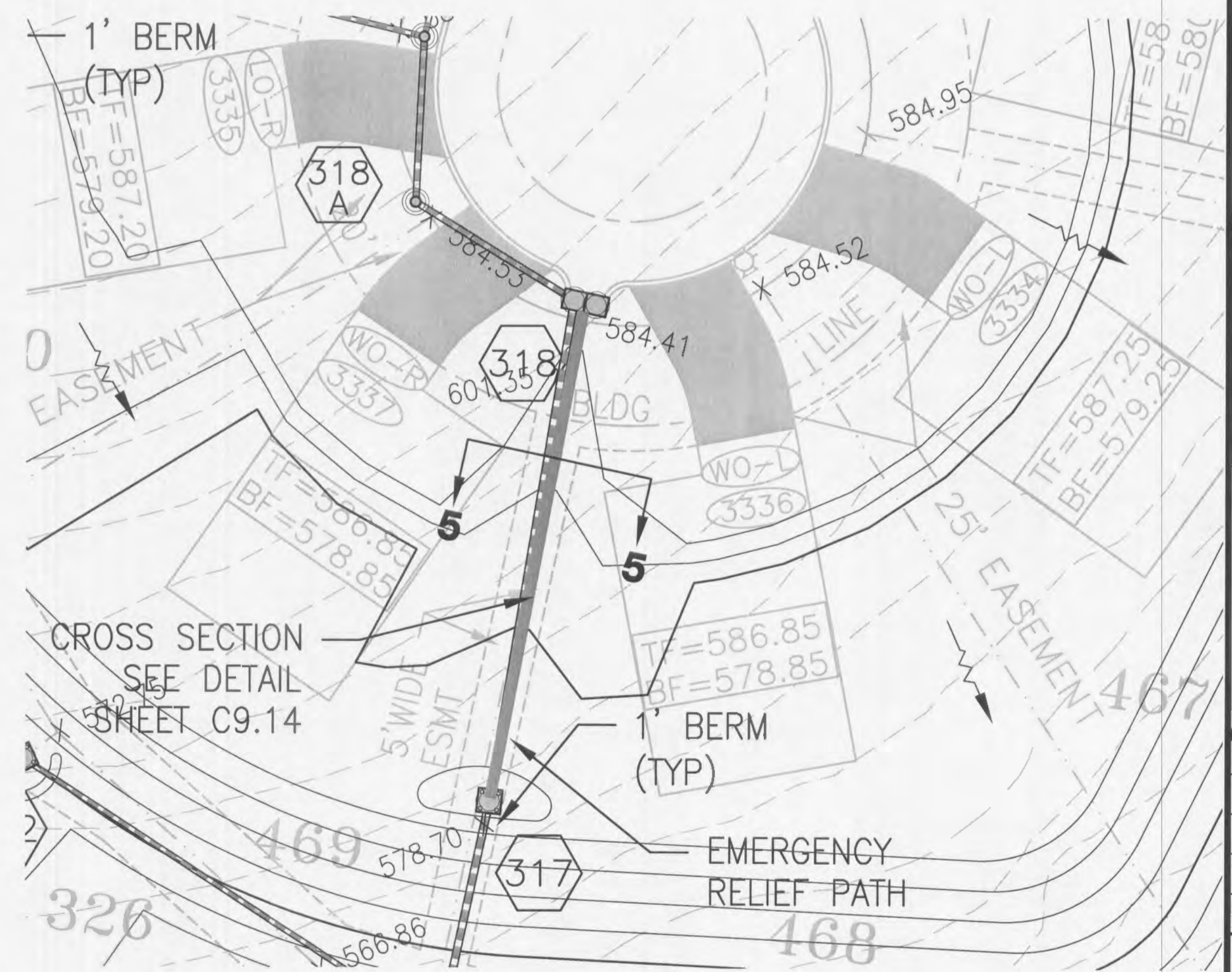
DESCRIPTION	COMPUTATION RESULTS	VALUE
Normal Depth (ft)		0.28
Flow Velocity (fps)		5.19
Froude Number		1.972
Velocity Head (ft)		0.42
Energy Head (ft)		0.7
Cross-Sectional Area of Flow (sq ft)		1.26
Top Width of Flow (ft)		5.85

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2 CHANNEL ANALYSIS LOTS 468-469
SCALE: N.T.S. REF. DWG.



2 EMERGENCY SPILLWAY DETAIL
SCALE: N.T.S. REF. DWG.



1 EMERGENCY SPILLWAY
SCALE: 1"=20' REF. DWG.

NO	DATE	REVISION DESCRIPTION
1	5/07/14	CITY COMMENTS
2	5/07/14	CITY, DSSA, WATER COMMENTS
1	3/26/14	CITY, DSSA, WATER & FIRE COMMENTS
NO		REVISION DESCRIPTION

DEVELOPER/OWNER:
PULTE GROUP
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#00118

JOHN F. HARSHBARGER
E-29716

PROFESSIONAL ENGINEER
REGISTERED

DATE: 5/12/14

**PRESTON WOODS
PHASE 7
IMPROVEMENT PLANS**
PRESTON WOODS LANE
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EMERGENCY SPILLWAY

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COLE
CIVIL ENGINEERING / SURVEYING / PLANNING / LANDSCAPE ARCHITECTURE
Cole & Associates, Inc.

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