

DIFFERENTIAL RUNOFF CALCULATIONS

15-YEAR, 20 MIN STORM

EXISTING CONDITION:		
BUILDING AREA	2.20 ac. x 3.85 c.f.s./ac.	= 8.47 c.f.s.
PAVEMENT AREA	2.59 ac. x 3.85 c.f.s./ac.	= 9.97 c.f.s.
GRAVEL AREA	0.17 ac. x 3.30 c.f.s./ac.	= 0.56 c.f.s.
GRASS AREA	12.27 ac. x 1.87 c.f.s./ac.	= 22.95 c.f.s.
	17.23 ac.	41.95 c.f.s.
PROPOSED CONDITION:		
BUILDING AREA	2.41 ac. x 3.85 c.f.s./ac.	= 9.28 c.f.s.
PAVEMENT AREA	2.56 ac. x 3.85 c.f.s./ac.	= 9.86 c.f.s.
PERVIOUS PAVEMENT	0.12 ac. x 1.87 c.f.s./ac.	= 0.22 c.f.s.
GRAVEL AREA	0.17 ac. x 3.30 c.f.s./ac.	= 0.56 c.f.s.
GRASS AREA	11.87 ac. x 1.87 c.f.s./ac.	= 22.38 c.f.s.
	17.23 ac.	42.30 c.f.s.
DIFFERENTIAL RUNOFF: 42.30 c.f.s. - 41.95 c.f.s. = 0.35 c.f.s. (INCREASE)		

DIFFERENTIAL RUNOFF CALCULATIONS

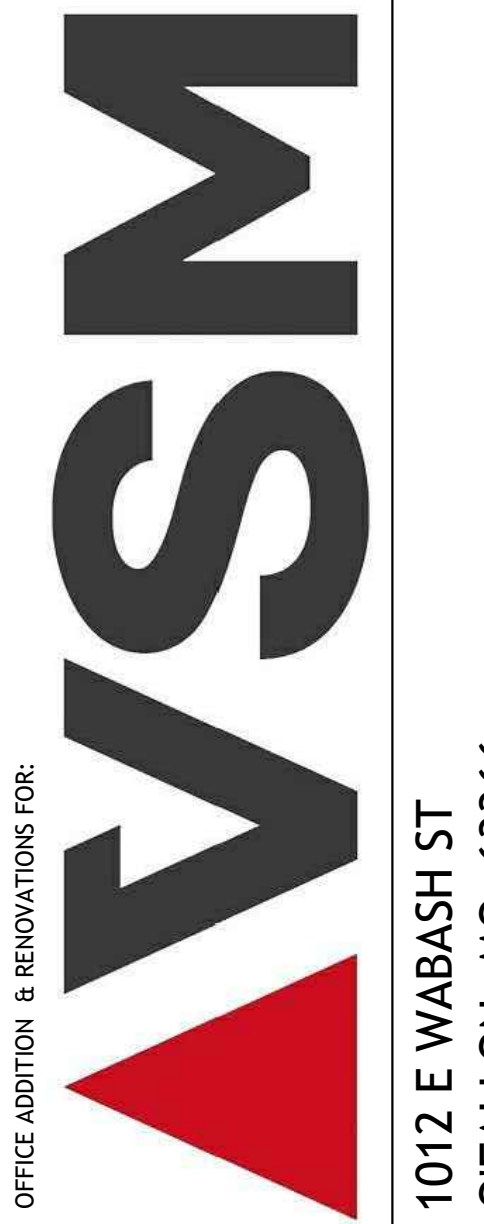
100-YEAR, 20 MIN STORM

EXISTING CONDITION:		
BUILDING AREA	2.20 ac. x 6.08 c.f.s./ac.	= 13.38 c.f.s.
PAVEMENT AREA	2.59 ac. x 6.08 c.f.s./ac.	= 15.75 c.f.s.
GRAVEL AREA	0.17 ac. x 5.21 c.f.s./ac.	= 0.89 c.f.s.
GRASS AREA	12.27 ac. x 2.95 c.f.s./ac.	= 36.40 c.f.s.
	17.23 ac.	66.22 c.f.s.
PROPOSED CONDITION:		
BUILDING AREA	2.41 ac. x 6.08 c.f.s./ac.	= 14.65 c.f.s.
PAVEMENT AREA	2.56 ac. x 6.08 c.f.s./ac.	= 15.58 c.f.s.
PERVIOUS PAVEMENT	0.12 ac. x 2.95 c.f.s./ac.	= 0.35 c.f.s.
GRAVEL AREA	0.17 ac. x 5.21 c.f.s./ac.	= 0.89 c.f.s.
GRASS AREA	11.87 ac. x 2.95 c.f.s./ac.	= 35.11 c.f.s.
	17.23 ac.	66.76 c.f.s.
DIFFERENTIAL RUNOFF: 66.76 c.f.s. - 66.22 c.f.s. = 0.54 c.f.s. (INCREASE)		

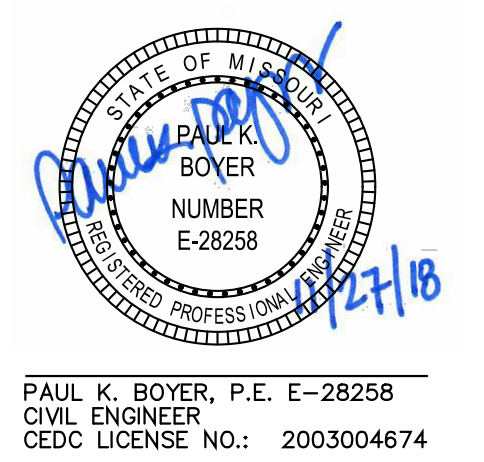


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OFFICE ADDITION & RENOVATIONS FOR:
VSM
 1012 E WABASH ST
 OFALLON, MO 63366



DESCRIPTION:
 PROGRESS SET 8-31-18
 PERMIT SET 10-5-18
 CITY SUBMITTAL 10-30-18
 CITY RESUBMITTAL 11-27-18

Issue Date: 10-5-18
 Job Number: 1823
 Drawn By: PKB
 Checked By: PKB
 Drawing Title:

Drainage Area Map

C11

