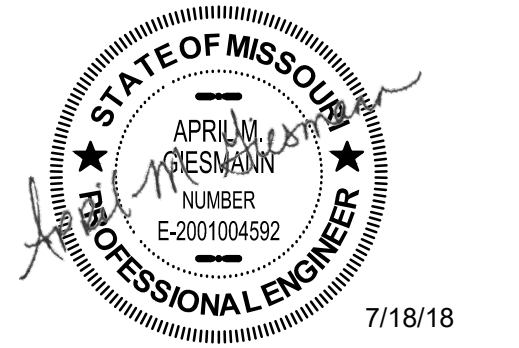




**HORNER SHIFRIN**  
 101 LAURA V DR. STE. 101 OFALLON, MO 63366-3991  
 636-329-8296 • FAX 636-329-2910 • WWW.HORNERSHIFRIN.COM  
 DISCIPLINE: PROFESSIONAL ENGINEERING  
 CERTIFICATE OF AUTHORITY: 000169  
 EXPIRATION DATE: DECEMBER 31, 2018

THE PROFESSIONAL ENGINEER, ARCHITECT AND LAND SURVEYOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THIS SHEET ONLY. ALL OTHER PLANS, SPECIFICATIONS, REPORTS AND OTHER DOCUMENTS HEREOF OR THEREON CONSTITUTE SEPARATE CONTRACTS AND ARE NOT PART OF THIS PROJECT FOR WHICH THE SEAL, SIGNATURE AND LICENSE ARE REQUIRED.

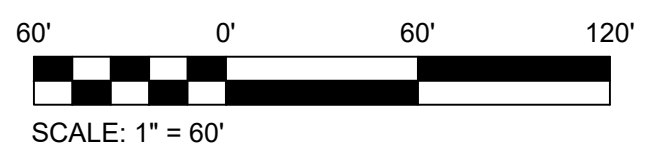
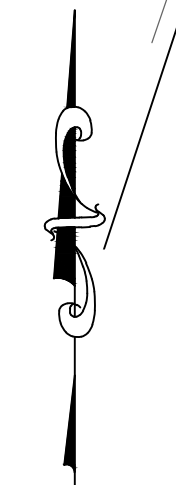


Name: April Geismann  
 Discipline: Civil Engineer  
 License No. E2001004592  
 Expiration Date: 12/31/2019

**RENEW O'FALLON**  
**T.R. HUGHES BLVD**  
**O'FALLON, MO 63366**

**LEGEND**

--- DRAINAGE AREA LIMITS



Call Before you DIG  
 TOLL FREE  
**1-800-344-7483**  
 MISSOURI ONE-CALL SYSTEM INC.  
 MODOT (314) 340-4100

**STORMWATER RUNOFF CALCULATIONS**  
(15 YEAR/20 MINUTE STORM)

Drainage Area No.	Impervious Area			Pervious Area			Total Area		Q (cfs)
	(sf)	(Ac)	PI	(sf)	(Ac)	PI	(sf)	(Ac)	
1	6442	0.15	3.89	376361	8.64	1.87	382803	8.79	16.73
2	10278	0.24	3.89	28395	0.65	1.87	38673	0.89	2.14
3	0	0.00	3.89	440301	10.11	1.87	440301	10.11	18.90
4	12370	0.28	3.89	17383	0.40	1.87	29753	0.68	1.85
5	0	0.00	3.89	3358	0.08	1.87	3358	0.08	0.14

SHEET TITLE: EXISTING DRAINAGE AREA MAP

PROJECT NUMBER: 17050

SHEET NUMBER:

**C12.1**

DRAWN BY: AMH CHECKED BY: AMG

OPERATOR: AMHARRISON  
 DWG: C:\pwworking\harrison\mss\171759\ExistingDrainageAreaMap.dwg  
 PAGE SETUP NAME: ---  
 SAVE DATE: 5/24/2018 8:53:32 AM  
 PLOT DATE: 5/24/2018 1:47:51 PM