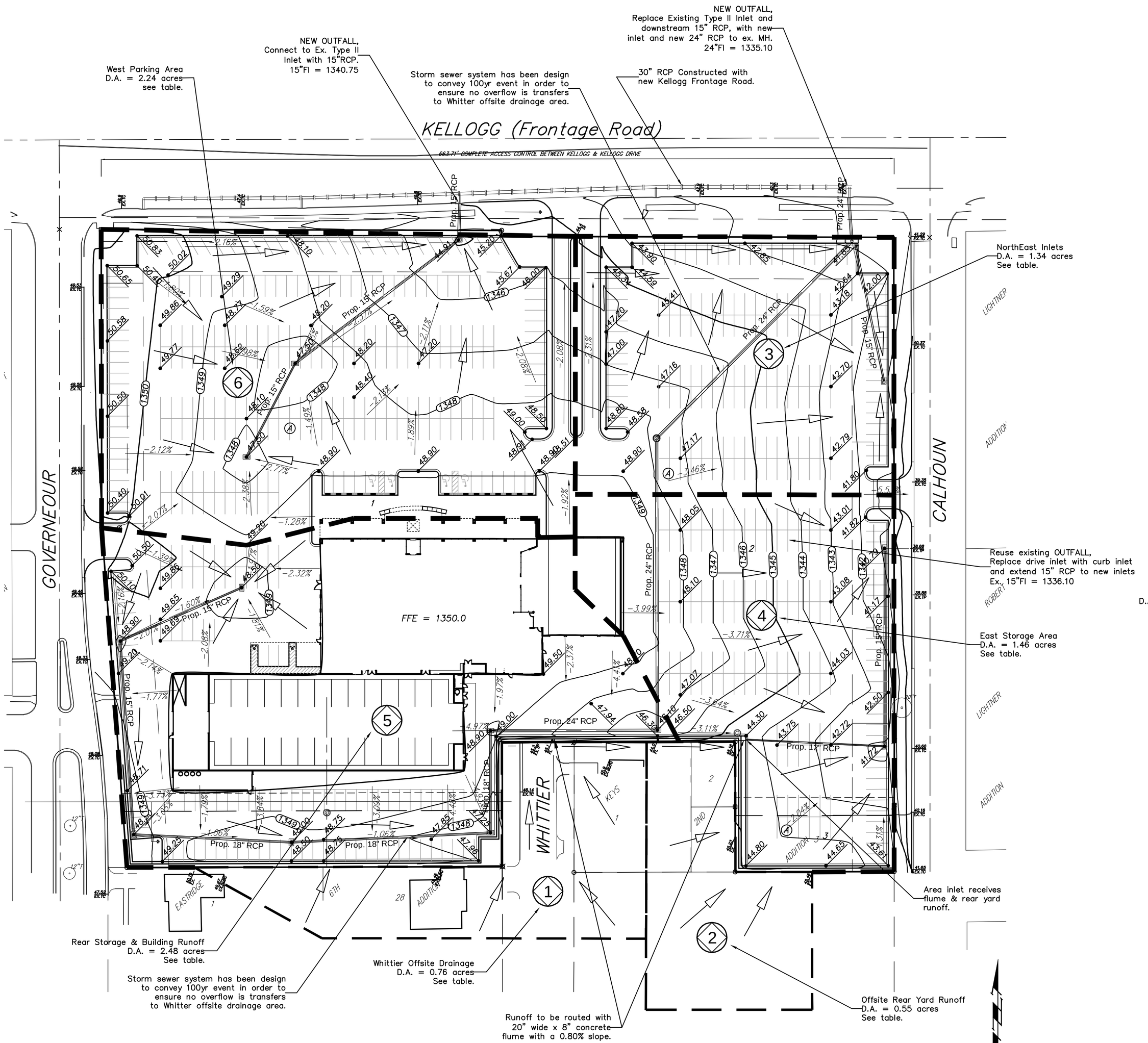
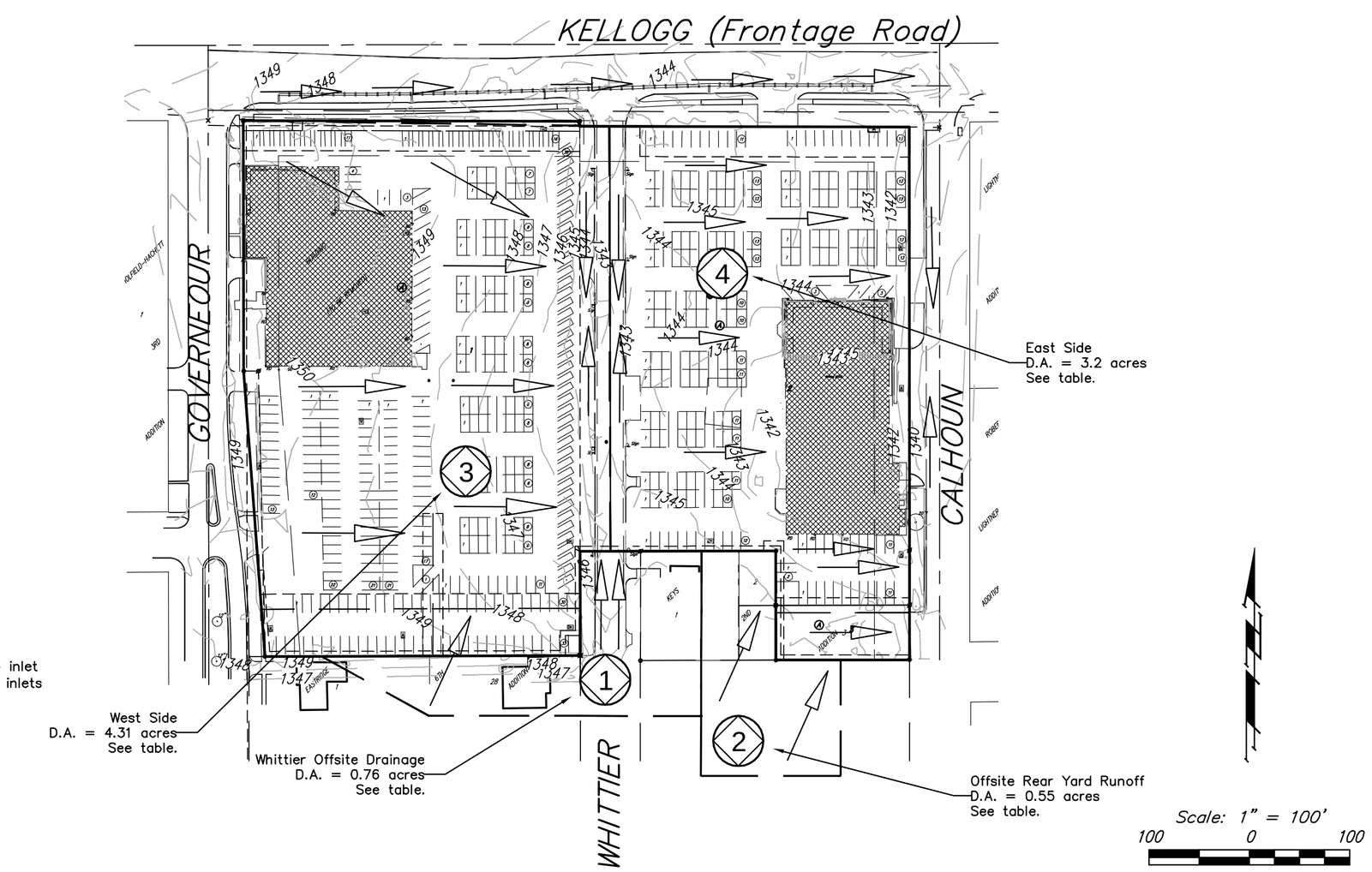
REVISED DRAINAGE PLAN

MIKE STEVEN MOTORS ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS



Proposed Conditions



Existing Conditions

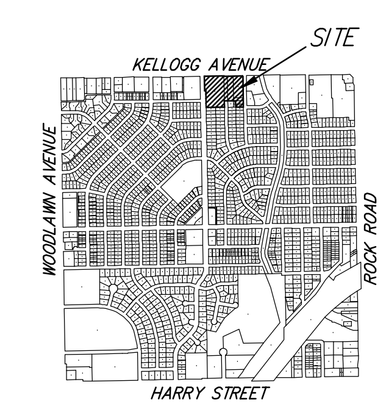
Existing Conditions

Basin #	Area (acres)	Runoff Coef. #	Tc (min)	Q_2 (cfs)	Q_5 (cfs)	Q_{10} (cfs)	Q_{100} (cfs)
1 (Whittier Offsite)	0.76	0.76	15.0	2.21	2.63	3.02	4.26
2 (East Backyard Offsite)	0.55	0.76	15.0	1.60	1.91	2.18	3.08
3 (West of Whittier)	4.31	0.91	15.0	15.02	17.88	20.47	28.91
4 (East of Whittier)	3.23	0.91	15.0	11.26	13.40	15.34	21.66
Existing Site Peak Discharge in Calhoun =				**30.1**	**35.8**	**41.0**	**57.9**

Proposed Conditions

Basin #	Area (acres)	Runoff Coef. #	Tc (min)	Q_2 (cfs)	Q_5 (cfs)	Q_{10} (cfs)	Q_{100} (cfs)
1 (Whitter Offsite) *	0.76	0.76	15.0	2.21	2.63	3.02	4.26
2 (East Backyard Offsite) **	0.55	0.76	15.0	1.60	1.91	2.18	3.08
3 (NE Curb Inlets) **	1.34	0.91	15.0	4.67	5.56	6.37	8.99
4 (East Storage Area) *	1.46	0.91	15.0	5.09	6.06	6.94	9.79
5 (Rear & Building Area) **	2.48	0.91	15.0	8.64	10.29	11.78	16.63
6 (West Parking Lot) **	2.26	0.91	15.0	7.88	9.38	10.74	15.16
Proposed Peak Discharge into Calhoun = *				**7.3**	**8.7**	**10.0**	**14.0**
Proposed Peak Discharge into Kellogg = **				**22.8**	**27.1**	**31.1**	**43.9**

(Q*) See Hydraflow Report for detail information



VICINITY MAP

SEC. 30, T27S, R2E

Notes: No FEMA SFHA exists on this property as of October 31, 2007, per FEMA FIRM Panel 367 of 700 for Sedgwick County, Kansas; effective February 2, 2007.

PATRICK SHAWN BAKER LICENSED 16976 KANSAS PROFESSIONAL ENGINEER 9/10/10

REVISED DRAINAGE PLAN

Mike Stevens Motors Add.

10 September 2010

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Baughman ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

E:/PROJECTS/USD2593RDHIGHSCHOOL/USD2593RDHIGHSCHOOL-OSF.DWG-RKR