

- NOTES:**
1. Cross-drainage agreements shall be required at the time of platting.
 2. All outlets to the Riverside Drainage Channel shall conform to City of Wichita water quality requirements, to include installing any pipe in the canal as shown rotated 30° from perpendicular.
 3. Detailed site grading and final drainage plans to be designed by a licensed professional engineer at the time of building permit.
 4. Minimum Pad Elevation = 1271.0 (MSL)
 5. Storm sewer easements will be provided at the time of building permit only as needed to allow drainage to discharge across adjacent lots.
 6. Any revised drainage plan must be approved by storm water engineer prior to building permits being issued.
 7. Any storm water detention areas required may be revised when the final plans for the development are completed but the runoff amounts will be at or below the pre-development discharge rates. The filed final drainage report shall show discharge rates and stage/storage/discharge curves for any on-site detention areas.
 8. The detention pond as shown is proposed. The final pond location, configuration, and design will need to be resolved at the time of building permit.

- CALCULATION NOTES:**
1. Determination of Q's was made using the SCS method.
 2. Curve Numbers weighted based on hydrologic soil groups.

Site	Area	CN	Existing Conditions (24-Hour Storm)							
			1-Year	2-Year	5-Year	10-Year	25-Year	100-Year		
KTA to Channel	44.17	81.0	57.97	77.44	102.41	122.92	148.57	188.94		
Site to Channel	43.32	83.0	84.55	110.58	145.03	170.31	204.75	255.50		
Site to Pond	8.88	83.0	21.58	39.16	58.90	83.41	120.05	154.87		

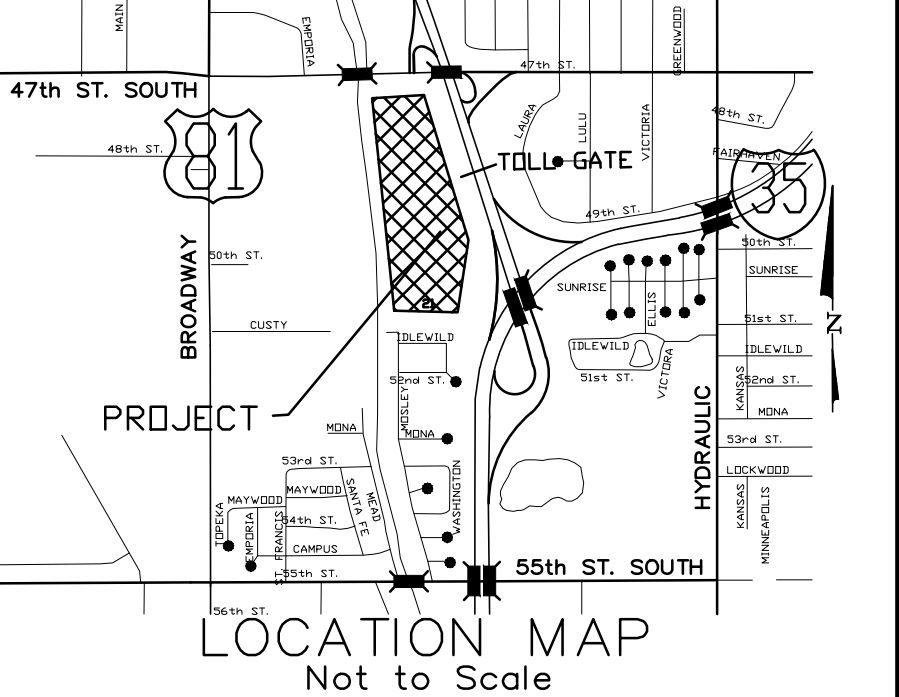
Site	Area	CN	Developed Conditions (24-Hour Storm)							
			1-Year	2-Year	5-Year	10-Year	25-Year	100-Year		
KTA to Channel	39.89	83.0	56.66	74.24	97.54	114.81	137.95	172.29		
Site to Channel	17.87	83.0	46.80	81.19	120.11	154.20	192.88	240.74		
Site to Pond	36.81	81.0	88.35	118.74	157.82	198.86	255.83	323.27		

Stage-Storage-Discharge Table

Stage (elev)	Storage (cuft)	Discharge (cfs)*
1257.50	0	0
1258.50	87,487	3,303
1259.50	142,846	3,674
1260.50	226,397	4,059
1261.50	318,303	4,455
1262.50	418,972	4,868
1263.50	526,853	5,290
1264.50	641,187	5,728
1265.50	647,816	7,915
1266.50	776,122	25,920

* Discharge rate includes infiltration rate of 2"/hr

- LEGEND:**
- 1 1/2" Pipe Found
 - ⊗ Mooring B&C Found
 - ▶ Section Corner Found
 - 5/8" Bar w/ Poe Cap Set
- BENCHMARK:**
 Bench Mark #77
 Top of Right-of-Way Marker in Fence Line @ End of Ramp, East Bound 47th to Southbound I-35.
 Elevation 1271.13 NCVDR88



SOUTHFORK COMMERCIAL ADDITION

A TRACT IN THE NORTH HALF OF SECTION 21-T28S-R1E
 WICHITA, SEDGWICK COUNTY, KANSAS

DRAINAGE PLAN

2011

SURVEY NOTES:
 Field Survey work completed on November 4, 2009.
 Topography by photogrammetric methods from aerial photographs taken on August 11, 2007.
 Horizontal datum NAD 83 modified to ground
 Vertical datum NAVD 88

PROPERTY OWNER / SUBDIVIDER:
 Southfork Investment, L.L.C. of Sedgwick County, in the State of Kansas.



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