

- 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 = 1272.0 (NAVD 88)
 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.

Existing Conditions (24-Hour Storm)									
Site	Area	CN	1-Year	2-Year	5-Year	10-Year	25-Year	100-Year	
KTA to Channel	41.51	50.5	74.83	100.45	134.96	160.78	195.02	246.07	
Site to Channel	38.97	65.0	10.15	30.80	38.80	53.40	74.55	108.36	
Site to Pond	8.77	78.8	9.65	15.05	22.92	29.10	37.55	50.47	

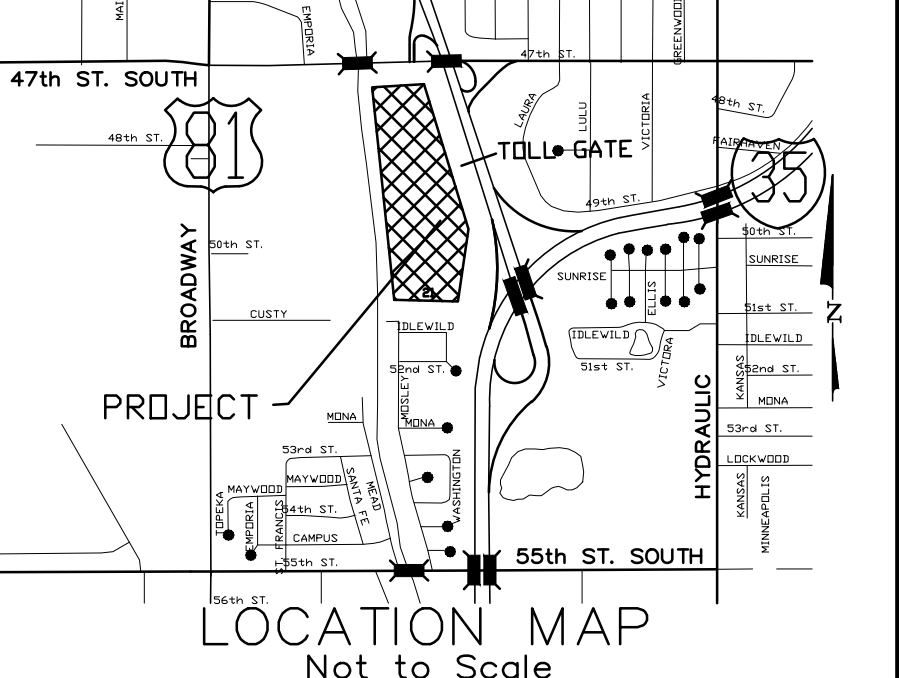
Developed Conditions (24-Hour Storm)									
Site	Area	CN	1-Year	2-Year	5-Year	10-Year	25-Year	100-Year	
KTA to Channel	99.88	60.8	82.05	110.86	147.42	174.86	211.25	265.47	
Site to Channel	10.03	80.0	25.53	37.58	42.31	52.29	60.86	76.80	
Site to Pond	39.84	84.0	72.95	103.93	144.13	175.25	216.93	279.88	

Stage-Storage-Discharge Table

Stage (feet)	Storage (acre-ft)	Discharge (cfs)
1257.50	0.00	0
1258.50	1.55	3.303
1259.50	3.26	3.874
1260.50	5.29	4.359
1261.50	7.31	4.455
1262.50	9.82	4.886
1263.50	12.14	5.280
1264.00	14.01	5.505
1265.00	14.87	5.725
1265.50	17.82	10.880

Discharge rate includes pond infiltration rate of 2"/hr

- LEGEND:**
- 1 1/2" Pipe Found
 - ⊗ Mooring B&C Found
 - ▶ Section Corner Found
 - 5/8" Bar w/ Pole 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 NAVD88



SOUTHFORK COMMERCIAL ADDITION

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

PROPOSED 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 Investments, L.L.C. of Sedgwick County, in the State of Kansas.



8550 Plat SouthforkKDA-Proposed

POE & ASSOCIATES, INC.
CONSULTING ENGINEERS
5940 E. Central, Suite 200 ■ Wichita, KS 67208-4242
Phone 316/685-4114 ■ FAX 316/685-4444