

- NOTES:**
1. Cross-drainage agreements shall be required at the time of plotting.
  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 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	41.17	91.0	57.97	77.94	103.41	122.82	145.57	178.94
Site to Channel	41.32	93.0	64.55	110.56	145.03	170.71	204.75	255.50
Site to Pond	9.88	93.0	21.56	28.15	36.80	43.41	52.05	64.92

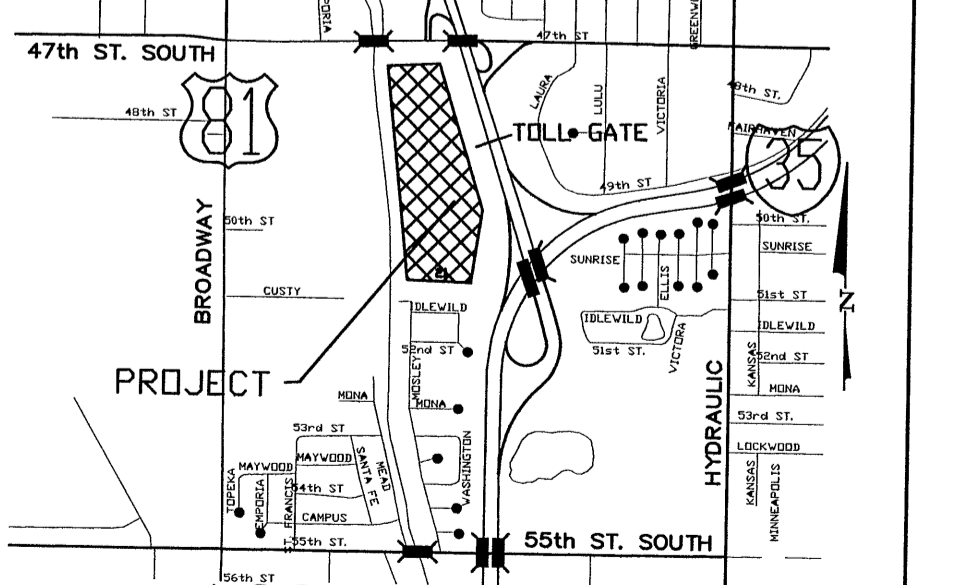
Site	Area	CN	Developed Conditions (24-Hour Storm)					
			1-Year	2-Year	5-Year	10-Year	25-Year	100-Year
KTA to Channel	38.89	93.0	74.24	97.84	114.91	137.95	172.29	218.94
Site to Channel	17.87	93.0	46.90	61.19	80.11	94.20	112.89	140.74
Site to Pond	36.61	91.0	89.35	118.74	157.82	186.98	225.63	283.22

**Stage-Storage-Discharge Table**

Stage (elev)	Storage (cuft)	Discharge (cfs)
1257.50	0.00	0
1258.50	61,407	3,303
1259.50	142,846	3,974
1260.50	226,357	4,058
1261.50	318,303	4,455
1262.50	418,912	4,656
1263.50	528,653	5,290
1264.20	610,187	5,588
1264.50	647,516	7,915
1265.50	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 NGVD88



# 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.



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

6880 Plat Southfork DA-Proposed