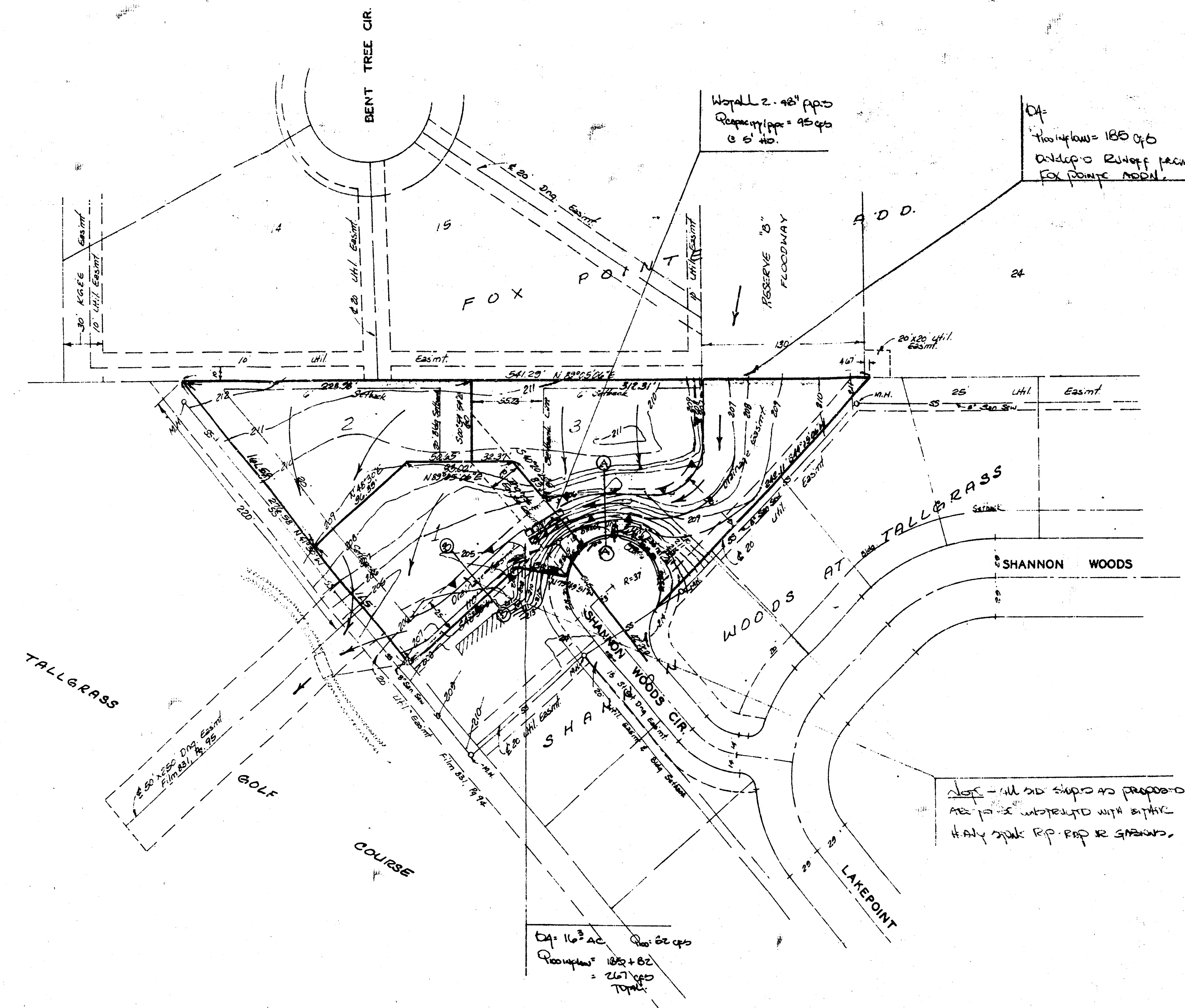


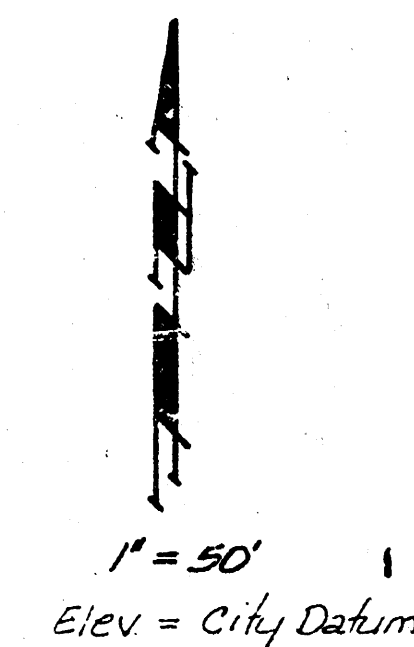


SHANNON WOODS SECOND AT TALLGRASS

AN ADDITION TO WICHITA SEDGWICK COUNTY, KANSAS

Reserve "E" Shannon Woods at Tallgrass, an Addition to
Wichita, Sedgwick County, Kansas.

Shannon Woods, Inc. Jay W. Russell, President.

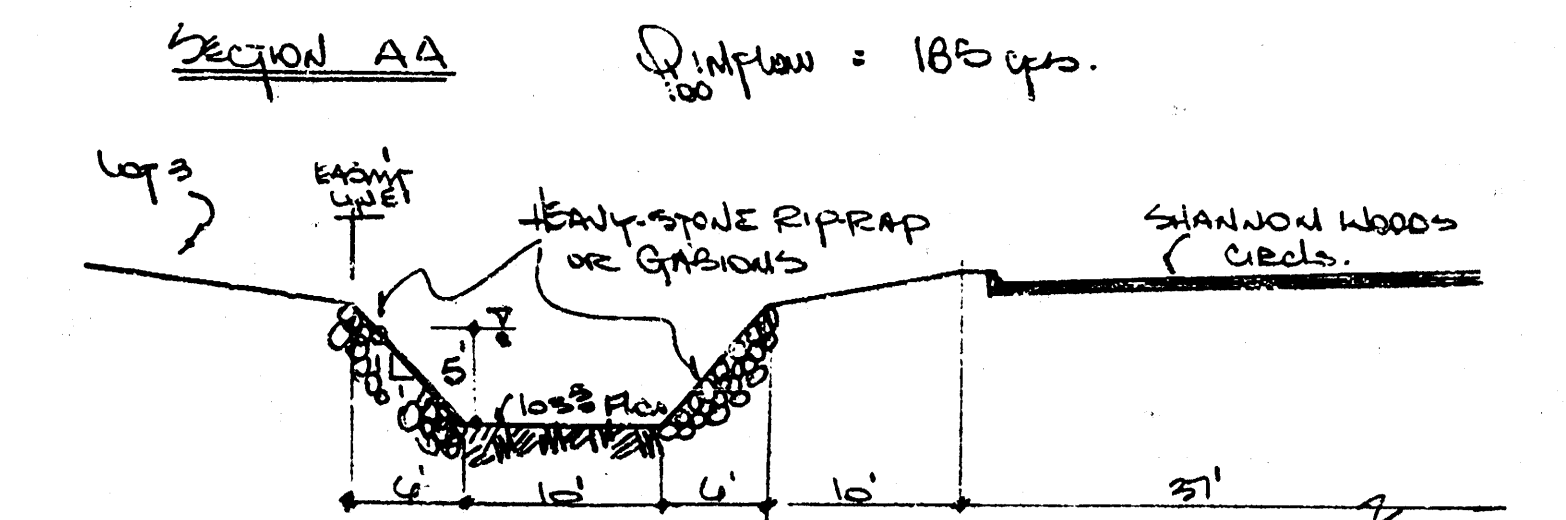


DRAINAGE PLAN

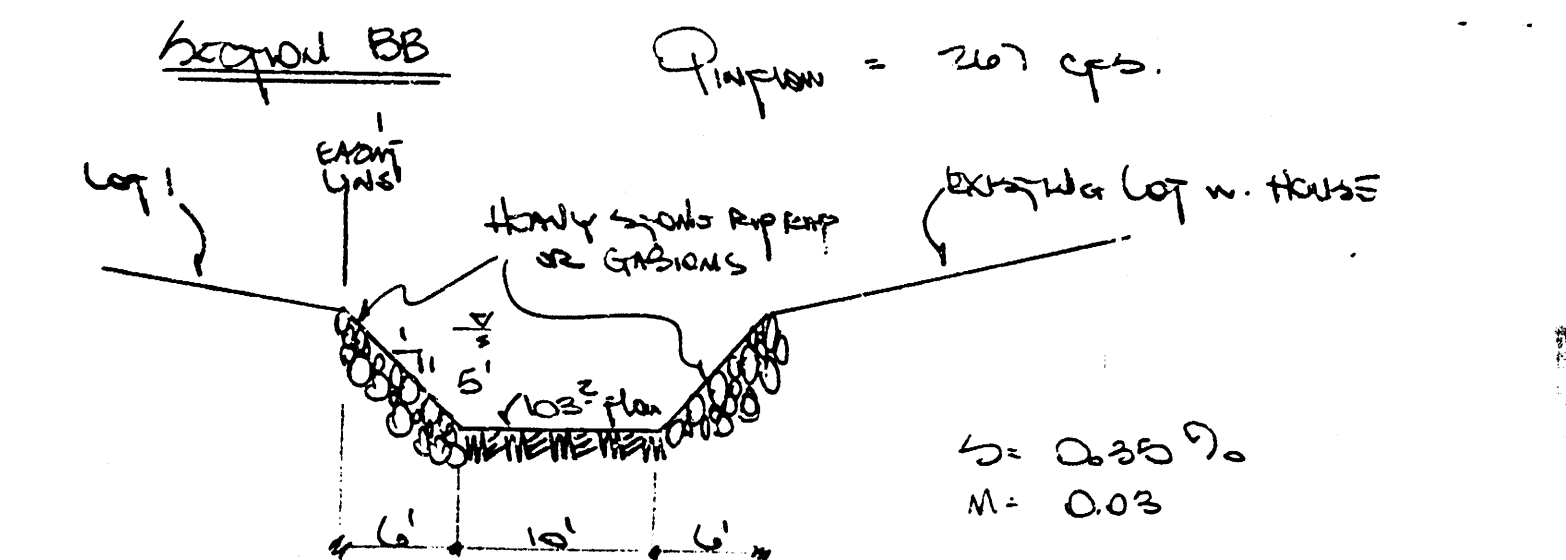
BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

4 May 1990

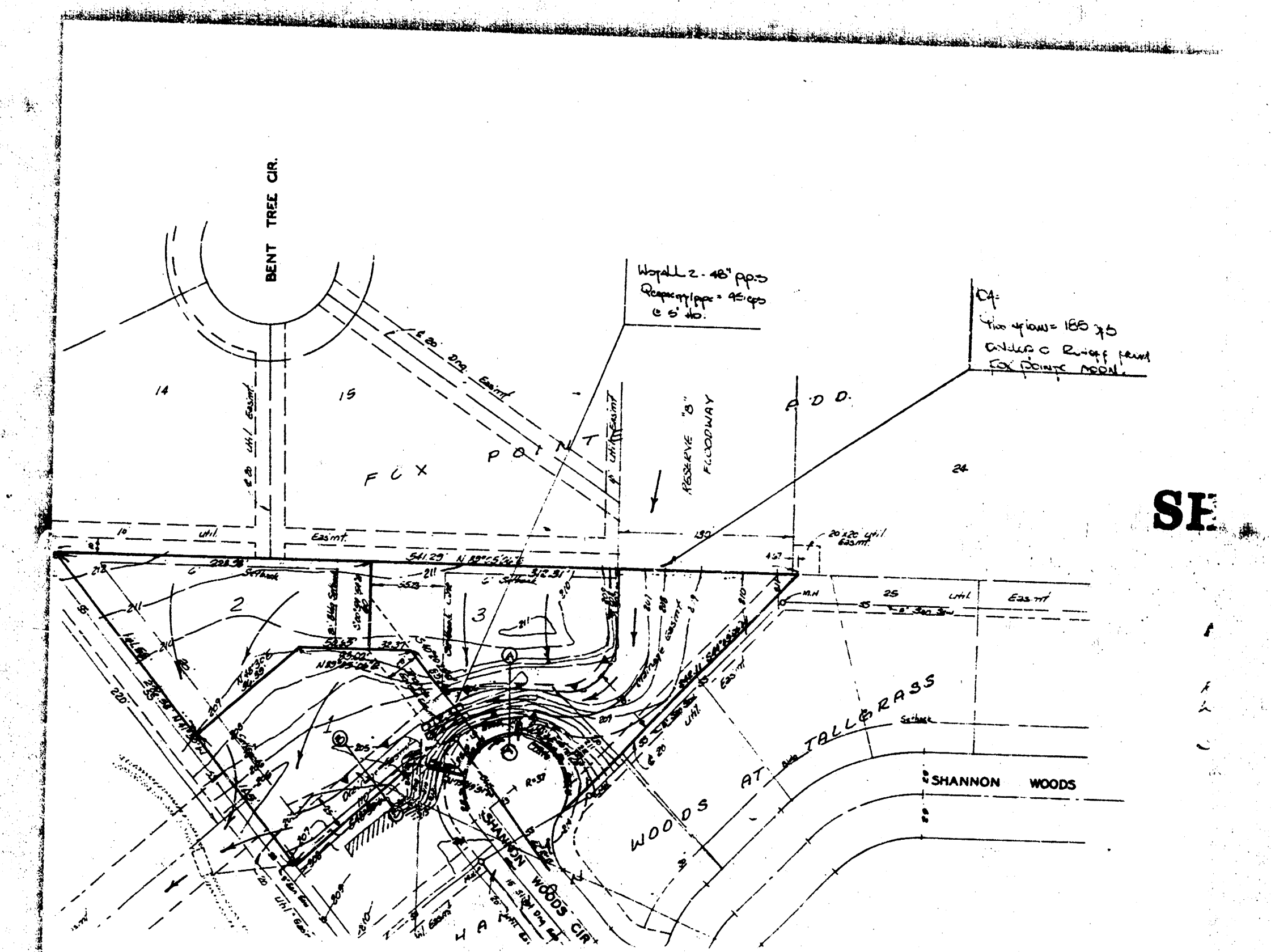
SHANNON WOODS SECOND AT TALLGRASS
4/21/90 5/18/90
BAUGHMAN COMPANY, P.A.



$S = 0.005$ $M = 0.05$
Permeability $C \approx 468$ cfs.
- Design section proposed is satisfactory
- 10' bottom width is sufficient to 6' or 8'.



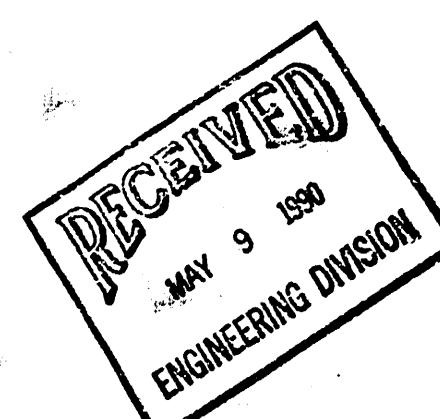
$S = 0.005$ $M = 0.05$
Permeability $C \approx 468$ cfs.
- Design section is satisfactory



BAUGHMAN COMPANY, P.A.
SURVEYING, ENGINEERING & CONSULTING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT SHANNON WOODS SECOND AT TALLGRASS
DATE May 8, 1990
JOB NO. 101
TO Vicky Huang, P.E. 1st floor
FROM N. Brent Wooten, P.E. City
REFERENCE Drainage Plan

Enclosed herein is the final drainage plan for
the referenced plat. Please review and advise.
Thank you.



SOLUTION FOR A TRAPEZOIDAL CHANNEL			
SHANNON WOODS DESIGN SECTION			
DISCHARGE	467.93 CFS	BASE WIDTH	10.00 FEET
VELOCITY	6.24 FPS	SIDE SLOPE	1.00 TO 1
NORMAL DEPTH	5.00 FEET	AREA	75.00 SQ. FT.
BOTTOM SLOPE	0.00350	TOP WIDTH	20.00 FEET
MANNING'S N	0.0300		
CRITICAL DEPTH	3.60 FEET	VELOCITY HEAD	0.61 FEET
FROUDE NUMBER	0.57	P + M	16063 POUNDS
CRITICAL SLOPE	0.01145		

DO YOU WANT TO PRINT OUT THE RESULTS? (Y/N)

SOLUTION FOR A TRAPEZOIDAL CHANNEL			
SHANNON WOODS 8' BOTTOM DITCH			
DISCHARGE	390.52 CFS	BASE WIDTH	8.00 FEET
VELOCITY	6.01 FPS	SIDE SLOPE	1.00 TO 1
NORMAL DEPTH	5.00 FEET	AREA	65.00 SQ. FT.
BOTTOM SLOPE	0.00350	TOP WIDTH	18.00 FEET
MANNING'S N	0.0300		
CRITICAL DEPTH	3.59 FEET	VELOCITY HEAD	0.56 FEET
FROUDE NUMBER	0.56	P + M	13391 POUNDS
CRITICAL SLOPE	0.01190		

DO YOU WANT TO PRINT OUT THE RESULTS? (Y/N)

SOLUTION FOR A TRAPEZOIDAL CHANNEL			
SHANNON WOODS 6' BOTTOM DITCH			
DISCHARGE	314.87 CFS	BASE WIDTH	6.00 FEET
VELOCITY	5.72 FPS	SIDE SLOPE	1.00 TO 1
NORMAL DEPTH	5.00 FEET	AREA	55.00 SQ. FT.
BOTTOM SLOPE	0.00350	TOP WIDTH	16.00 FEET
MANNING'S N	0.0300		
CRITICAL DEPTH	3.59 FEET	VELOCITY HEAD	0.51 FEET
FROUDE NUMBER	0.54	P + M	10777 POUNDS
CRITICAL SLOPE	0.01249		

DO YOU WANT TO PRINT OUT THE RESULTS? (Y/N)