

Node Report

Node	Inlet Area (acres)	Weighted Roughness Coefficient	Ground Elevation (ft)	Inlet CA (acres)	External CA (acres)	Carryover (cfs)	Total CA (acres)	Additional Flow (cfs)	Inlet TC (min)	Known Flow (cfs)	External TC (min)	Upstream Flow Time (min)	System Flow Time (min)
I-20	1.80	0.54	143.00	0.97	0.00	0.00	0.97	0.00	15.00	0.00	0.00	0.00	15.00
I-15	0.90	0.54	143.70	0.49	0.00	0.00	0.49	0.00	15.00	0.00	0.00	0.00	15.00
I-17	2.10	0.54	144.10	1.13	0.00	0.00	1.13	0.00	15.00	0.00	0.00	0.00	15.00
I-16	2.60	0.54	144.10	1.40	0.00	0.00	3.02	0.00	15.00	0.00	0.00	17.53	17.53
I-12	0.90	0.54	144.40	0.49	0.00	0.00	0.49	0.00	15.00	0.00	0.00	0.00	15.00
I-13	0.00	0.54	145.20	0.00	0.00	0.00	0.49	0.00	15.00	2.00	0.00	17.27	17.27
I-14	2.20	0.54	144.50	1.19	0.00	0.00	4.70	0.00	15.00	2.00	0.00	18.50	18.50
I-18	1.80	0.54	144.50	0.97	0.00	0.00	5.67	0.00	15.00	2.00	0.00	18.63	18.63
I-19	0.90	0.54	141.00	0.49	0.00	0.00	7.13	0.00	15.00	2.00	0.00	19.39	19.39
J-2	N/A	N/A	141.00	N/A	N/A	N/A	7.13	N/A	N/A	N/A	0.00	19.39	19.39
Outlet	N/A	N/A	140.00	N/A	N/A	N/A	7.13	N/A	N/A	N/A	0.00	20.23	20.23

Pipe Report

Pipe	Upstream Node	Downstream Node	Weighted Roughness Coefficient	Section Size	Roughness	Constructed Slope (ft/ft)	Length (ft)	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)	Upstream Ground Elevation (ft)	Inlet Area (acres)	Total CA (acres)
P-8	I-5	I-2	0.54	18 inch	0.013	0.002972	286.00	38.90	38.05	41.00	1.60	0.86
P-1	I-1	I-2	0.54	18 inch	0.013	0.002727	165.00	38.50	38.05	43.00	0.80	0.43
P-2	I-2	I-3	0.54	18 inch	0.013	0.003007	143.00	37.93	37.50	41.00	0.80	1.73
P-3	I-3	I-4	0.54	24 inch	0.013	0.004167	36.00	37.40	37.25	43.00	1.00	2.27
P-4	I-4	J-1	0.54	30 inch	0.013	0.002083	144.00	37.15	36.85	43.00	1.10	2.86
P-5	J-1	Outlet	N/A	30 inch	0.013	0.001923	26.00	36.75	36.70	40.00	N/A	2.86

Project Title: LARK 6TH SYSTEM 1
c:\haestad\lark6th\lark6th3.stm
05/21/97 11:09:21 AM
Baughman Company, P.A.
© Haestad Methods, Inc. 37 Brookside Road Waterbury, CT 06708 USA (203) 755-1666
StormCAD v1.0
Page 1 of 1

Project Title: Auburn Hills 3rd Addition
c:\haestad\aub3\aub3.stm
05/22/97 08:19:45 AM
Baughman Company, P.A.
© Haestad Methods, Inc. 37 Brookside Road Waterbury, CT 06708 USA (203) 755-1666
StormCAD v1.0
Page 1 of 1

Node Report

Node	Inlet Area (acres)	Weighted Roughness Coefficient	Ground Elevation (ft)	Inlet CA (acres)	External CA (acres)	Carryover (cfs)	Total CA (acres)	Additional Flow (cfs)	Inlet TC (min)	Known Flow (cfs)	External TC (min)	Upstream Flow Time (min)	System Flow Time (min)
I-5	1.60	0.54	41.00	0.86	0.00	0.00	0.86	0.00	15.00	0.00	0.00	0.00	15.00
I-1	0.80	0.54	43.00	0.43	0.00	0.00	0.43	0.00	15.00	0.00	0.00	0.00	15.00
I-2	0.80	0.54	41.00	0.43	0.00	0.00	1.73	0.00	15.00	0.00	0.00	16.51	16.51
I-3	1.00	0.54	43.00	0.54	0.00	0.00	2.27	0.00	15.00	0.00	0.00	16.86	16.86
I-4	1.10	0.54	43.00	0.59	0.00	0.00	2.86	0.00	15.00	0.00	0.00	16.97	16.97
J-1	N/A	N/A	40.00	N/A	N/A	N/A	2.86	N/A	N/A	N/A	0.00	17.43	17.43
Outlet	N/A	N/A	39.00	N/A	N/A	N/A	2.86	N/A	N/A	N/A	0.00	17.51	17.51

DOT Report

Pipe	Node-Downstream	Inlet Area (acres)	Inlet CA (acres)	Total CA (acres)	Ground-Downstream (ft)	HGL-Downstream (ft)	Slope-Constructed (ft/ft)	Section-Discharge Capacity (cfs)	Section-Shape	Length (ft)	Average Velocity (ft/s)	Description
P-8	I-5	1.60	0.86	0.86	41.00	42.07	0.003734	6.42	Circular	286.00	3.63	
I-2	I-2	0.80	0.43	0.43	41.00	41.00	0.002972	5.73	18 inch	165.00	1.82	
P-1	I-1	0.80	0.43	0.43	41.15	41.15	0.000934	3.21	Circular	165.00	1.82	
I-2	I-2	0.80	0.43	1.73	41.00	41.00	0.002727	5.49	18 inch	143.00	6.99	
P-2	I-2	0.80	0.43	1.73	41.00	41.42	0.013813	12.35	Circular	143.00	6.99	
I-3	I-3	1.00	0.54	2.27	43.00	39.44	0.003007	5.76	18 inch	36.00	5.14	
P-3	I-3	1.00	0.54	2.27	43.00	39.36	0.004495	16.06	Circular	36.00	5.14	
I-4	I-4	1.10	0.59	2.86	43.00	39.20	0.004167	14.60	24 inch	144.00	5.20	
P-4	I-4	1.10	0.59	2.86	43.00	39.12	0.002940	20.21	Circular	144.00	5.20	
J-1	J-1	N/A	N/A	2.86	40.00	38.59	0.002083	18.72	30 inch	26.00	5.93	
P-5	J-1	N/A	N/A	2.86	40.00	38.50	0.004034	18.89	Circular	26.00	5.93	
Outlet	Outlet	N/A	N/A	2.86	39.00	38.22	0.001923	17.99	30 inch			

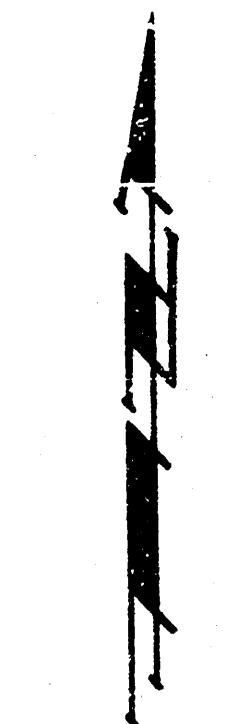
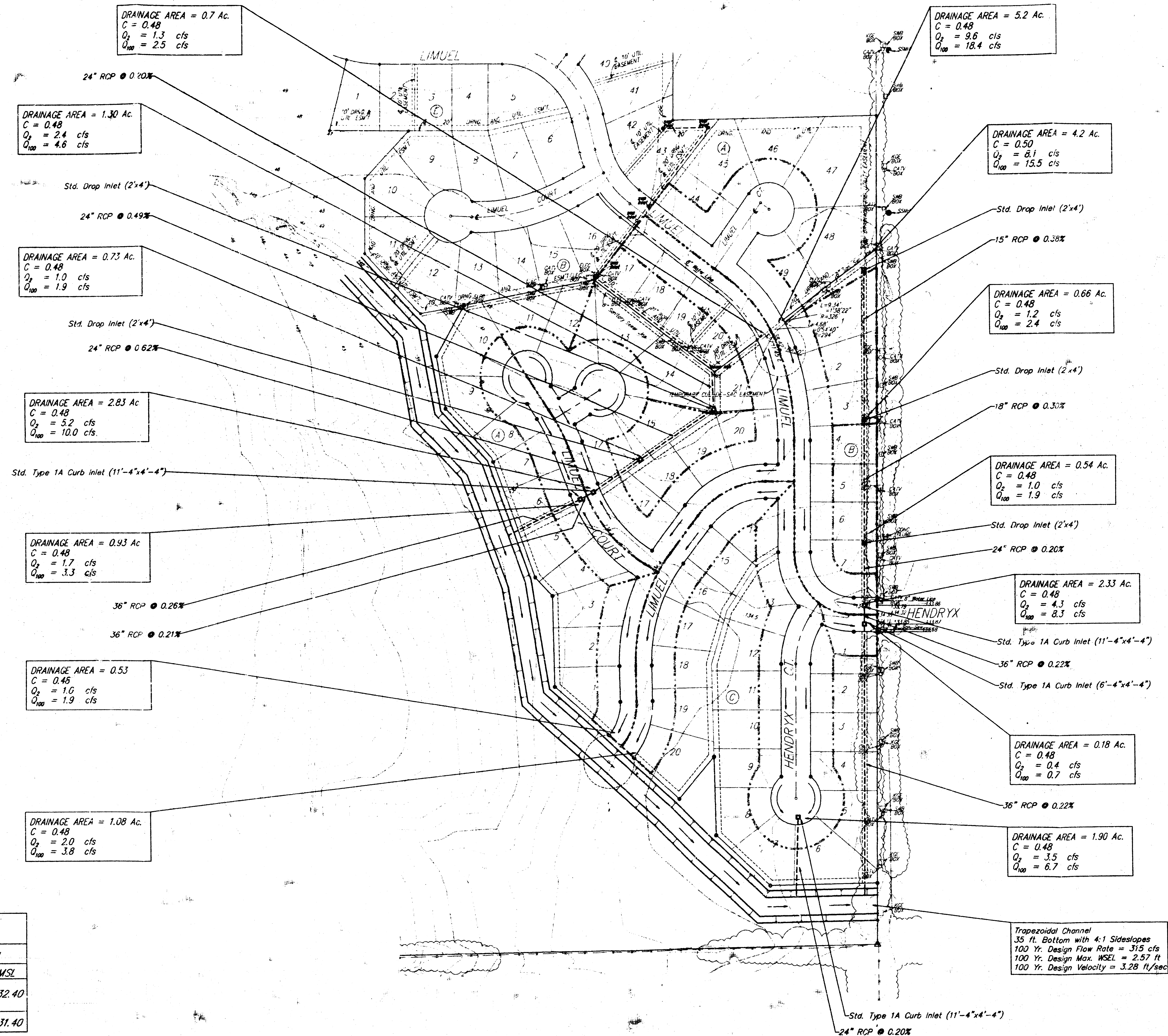
Project Title: Auburn Hills 3rd Addition
c:\haestad\aub3\aub3.stm
05/22/97 08:20:00 AM
Baughman Company, P.A.
© Haestad Methods, Inc. 37 Brookside Road Waterbury, CT 06708 USA (203) 755-1666
StormCAD v1.0
Page 1 of 1

Project Title: Auburn Hills 3rd Addition
c:\haestad\aub3\aub3.stm
05/22/97 08:20:27 AM
Baughman Company, P.A.
© Haestad Methods, Inc. 37 Brookside Road Waterbury, CT 06708 USA (203) 755-1666
StormCAD v1.0
Page 1 of 1

DRAINAGE PLAN

AUBURN HILLS 2nd ADDITION

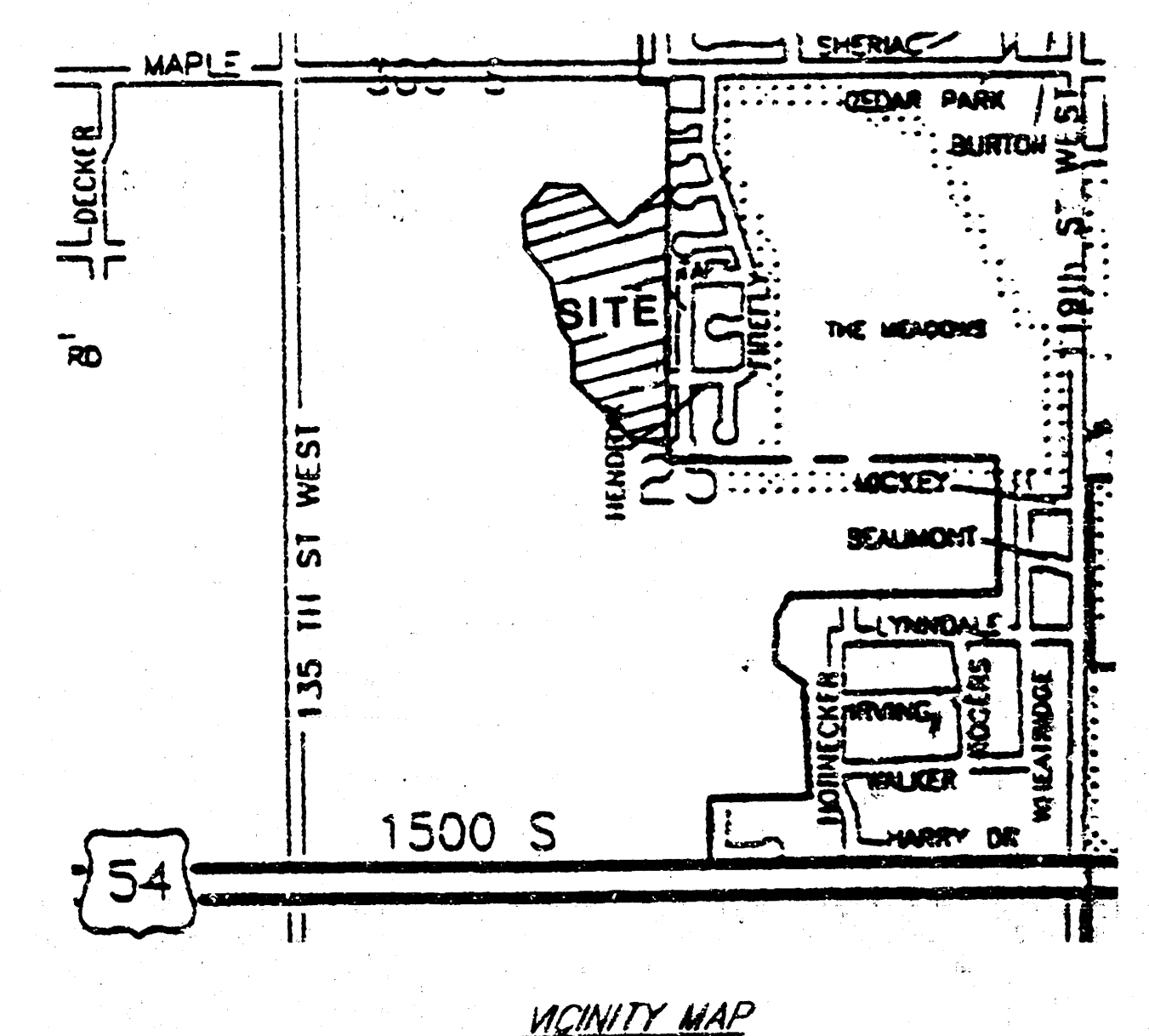
SEDGWICK COUNTY, KANSAS



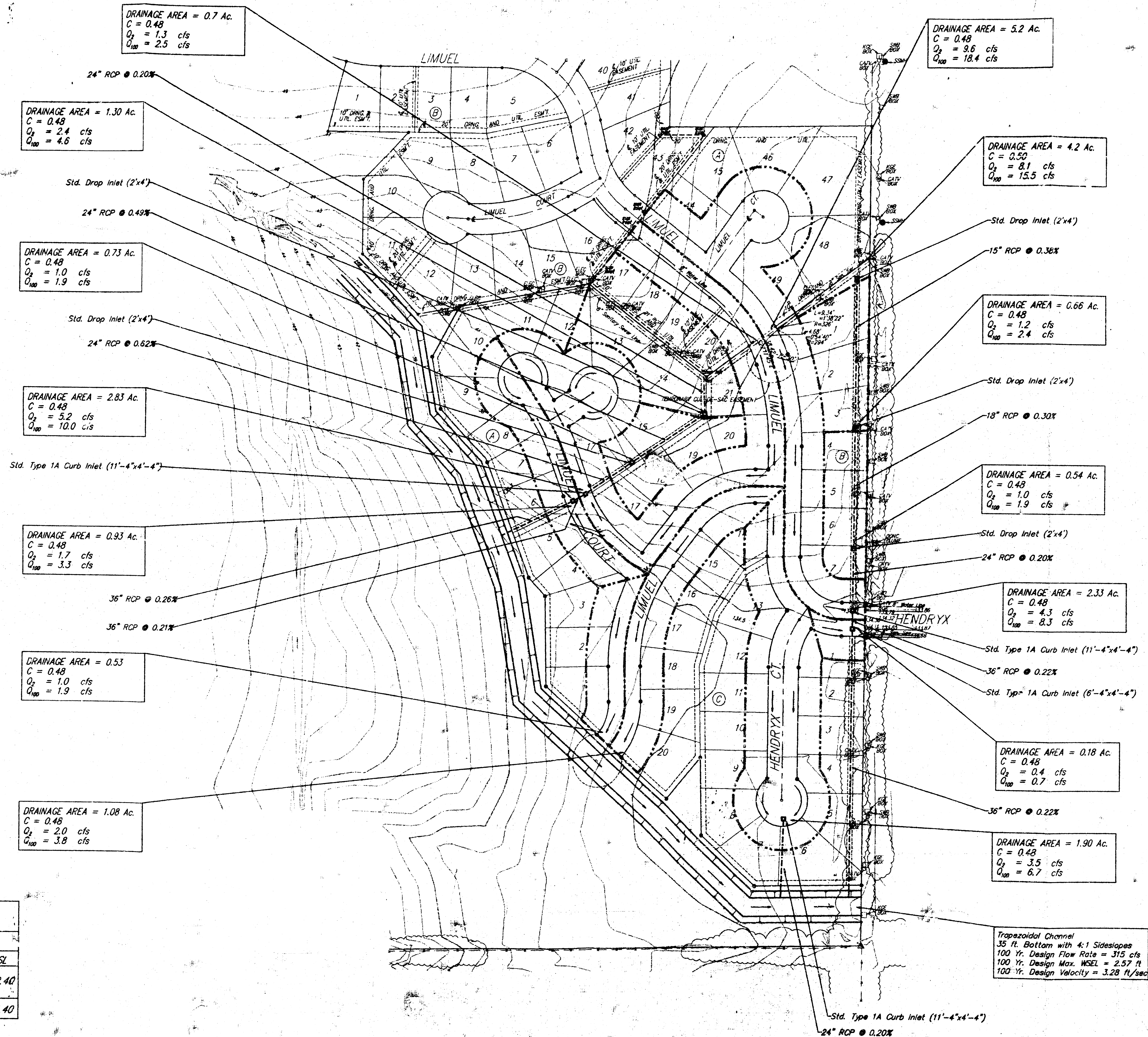
SCALE: 1"=100'

• = #4 REBAR W/ "BAUGHMAN CAP (SET)"
= #4 REBAR W/ "BAUGHMAN CAP (FOUND)"
S = Storm Water Sewer Man Hole
S = Sanitary Sewer Man Hole

MINIMUM BUILDING PAD ELEV. LOWEST OPENING TO STRUCTURE			
LOT	BLOCK	ELEVATION	
		CITY DATUM	MSL
1, 2, 3, 4, 5, 6, 7, 8, 9, 10	A	145.00	1332.40
6, 7, 8, 9, 20	C	144.00	1331.40

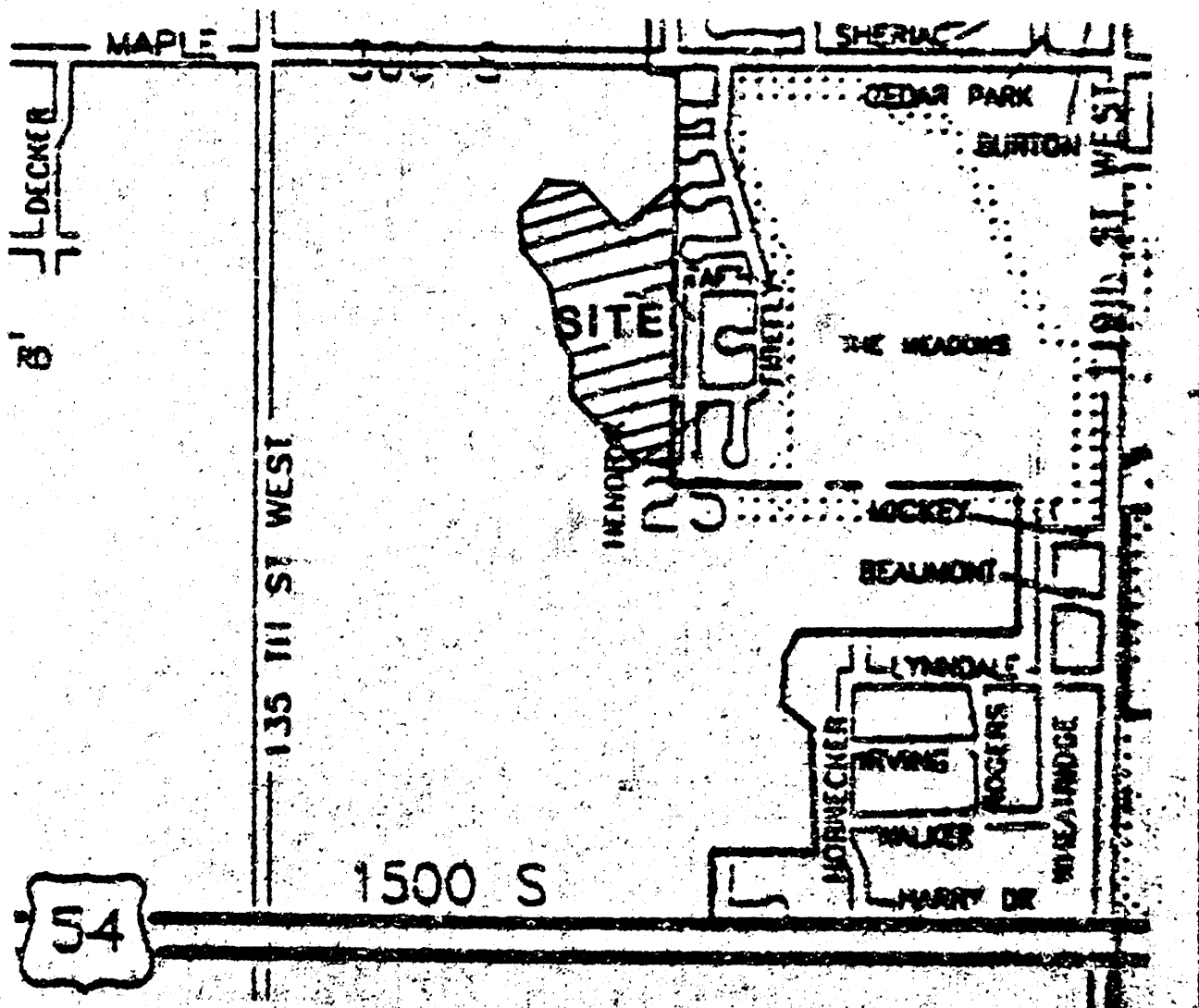


DRAINAGE PLAN AUBURN HILLS 2nd ADDITION SEDGWICK COUNTY, KANSAS



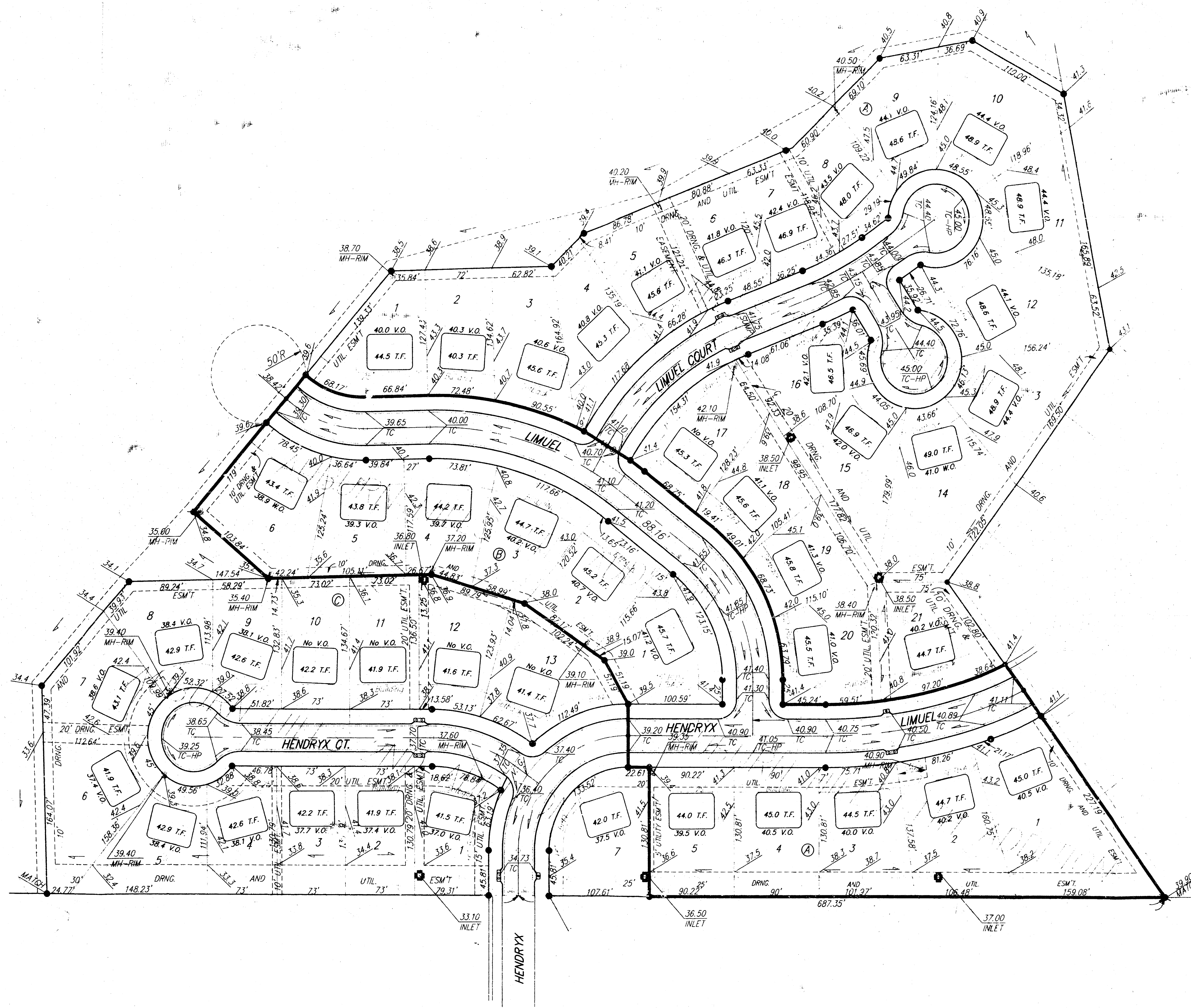
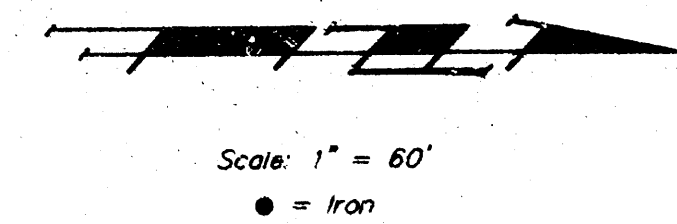
SCALE: 1"=100'

• = 1/4" REBAR W/ 2" BAUGHMAN CAP (SET)
= 1/4" REBAR W/ 2" BAUGHMAN CAP (FOUND)
+ = Storm Water Sewer Man Hole
- = Sanitary Sewer Man Hole

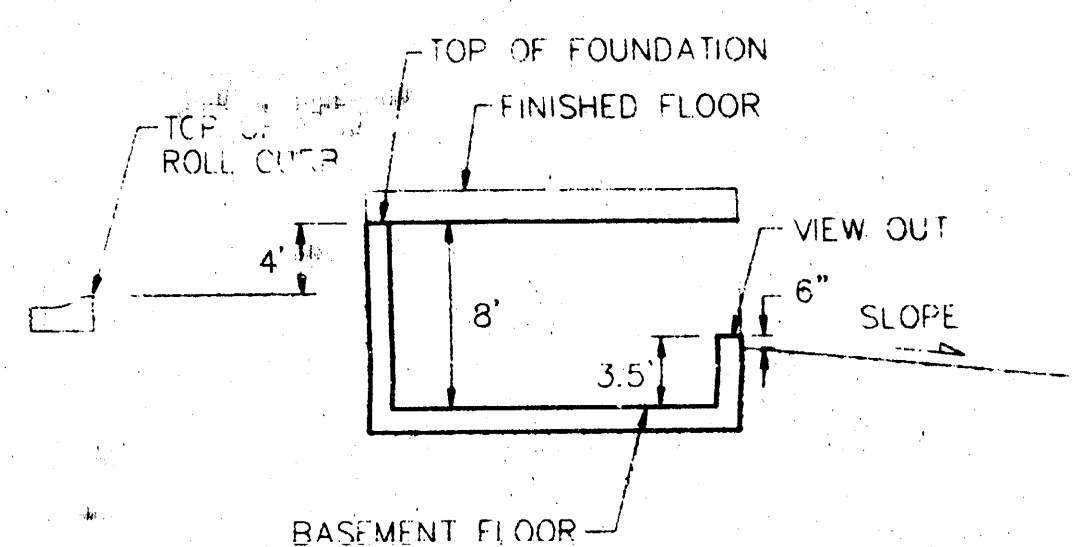


MINIMUM BUILDING PAD ELEV. LOWEST OPENING TO STRUCTURE			
LOT	BLOCK	ELEVATION	
		CITY DATUM	MSL
1, 2, 3, 4, 5, 6, 7, 8, 9, 10	A	145.00	1332.40
6, 7, 8, 9, 20	C	144.00	1331.40

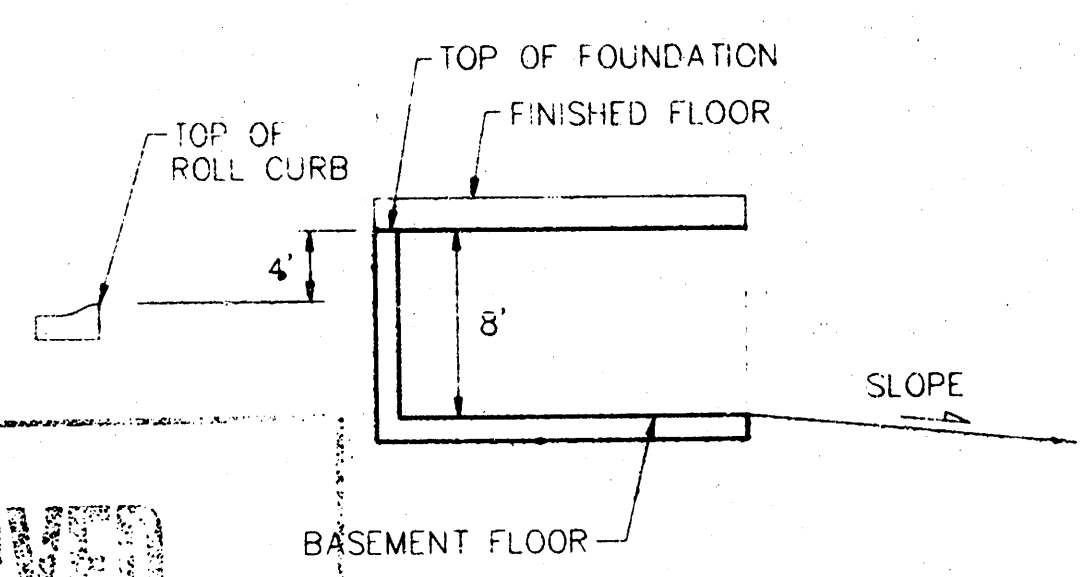
BENCHMARKS:
 BM #1 "□" On Top of Curb Located on the South Side of Hendryx 15' West of the East Line of Auburn Hills 2nd Addition. Elev. = 134.32 City Datum
 BM #2 "□" On Top of Curb Located at 14.29' North and 38.05' West of the Northeast corner of Lot 13, Block B, Auburn Hills Addition. Elev. = 144.83 City Datum



NOTE:
 Proposed top of foundation elevations are shown on plans. Contractor to set finish floor elevation.
 All street elevations shown on plans are for top of curb (full height).
 View-out elevations are denoted as XX.X V.O.
 Work-out elevations are denoted as XX.X W.O.



TYPICAL VIEW OUT
 NO SCALE



TYPICAL WALK OUT
 NO SCALE

**APPROVED
 DRAINAGE PLAN**

Revised 12/31/97 bjp

LOT GRADING PLAN

BAUGHMAN COMPANY P.A.
 ENGINEERS, SURVEYORS & PLANNERS

DESIGN	DRAWN	APPROVED	DATE	SCALE	SHEET 1 OF 1
--------	-------	----------	------	-------	-------------------------------------