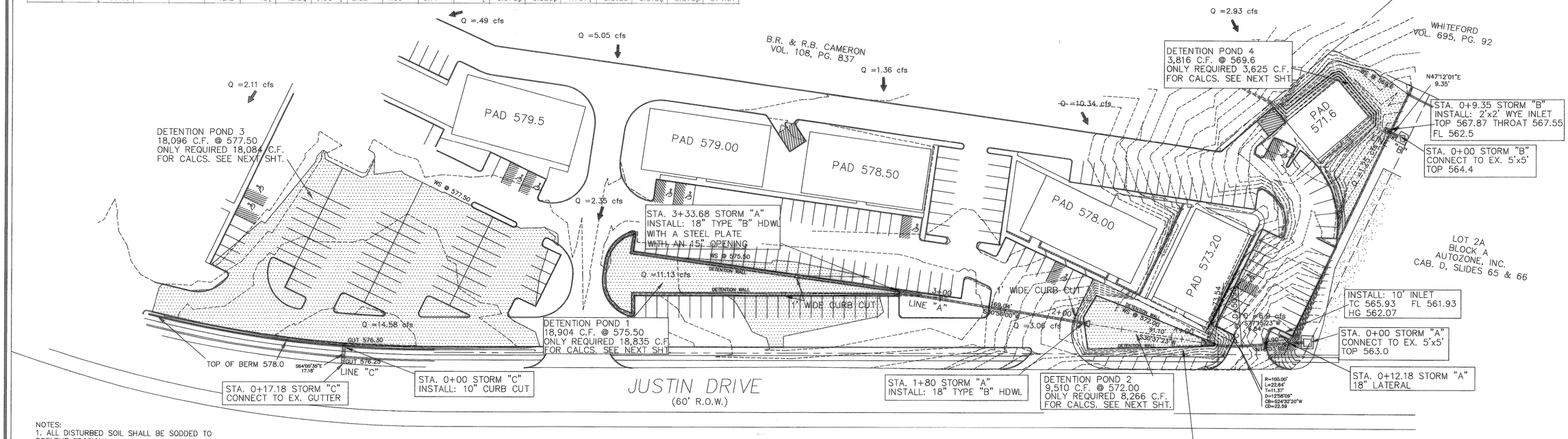
HYDRAULIC CHART

From	To	Length	Box Height	Width	DESIGN Q100	Pipe Size (in)	CAP Q100	FULL V	PARTIAL V	PARTIAL FLOW %	FLOW CHT. No.	Kj	Flow R(ft)	R^2/3	Flow Area	FULL S	DESIGN S	HGL Rise	HGL Number	
STM A																			560.50	Starting
12.18	0	12.18			18.38	18	35.64	10.40	9.05	1.14	0.87		0.3750	0.5200	1.7671	0.0306	0.1151	0.3729	560.87	
Junction Loss												1.0000						0.9530	561.83	
80.00	12.18	67.82			12.09	18	35.64	6.84	4.65	1.07	0.68		0.3750	0.5200	1.7671	0.0132	0.1151	0.8984	562.72	
STM A																			572.00	Starting
333.68	180	153.68			12.2	18	12.20	6.90	5.32	1.09	0.77		0.3750	0.5200	1.7671	0.0135	0.0135	2.0730	574.07	

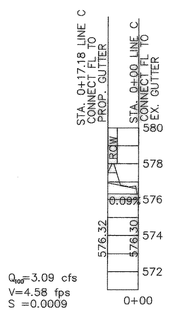
TOTAL DETENTION:
OFFSITE AREA = 6.95 AC.
DEVELOPED AREA = 5.31 AC.
EX. RUNOFF TOTAL = 35.61 CFS
PROP. RUNOFF TOTAL = 7.4+2.6+3.09+18.38+4.06=35.53 CFS



NOTES:
1. ALL DISTURBED SOIL SHALL BE SODDED TO PREVENT EROSION.

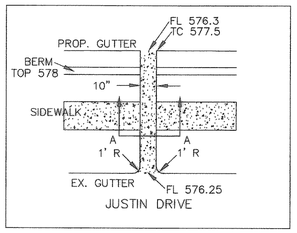
2. POND #1 AND #2 WILL HAVE A FENCE AROUND THE PONDS WITH A MINIMUM HEIGHT OF 4 FEET. TYPE OF FENCE IS AT THE DISCRETION OF THE OWNER WITH APPROVAL FROM THE CITY OF ROCKWALL.

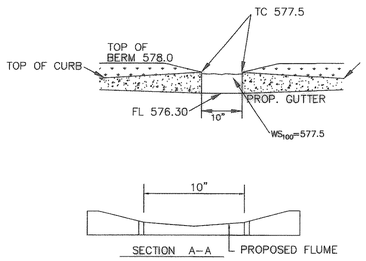
STORM C



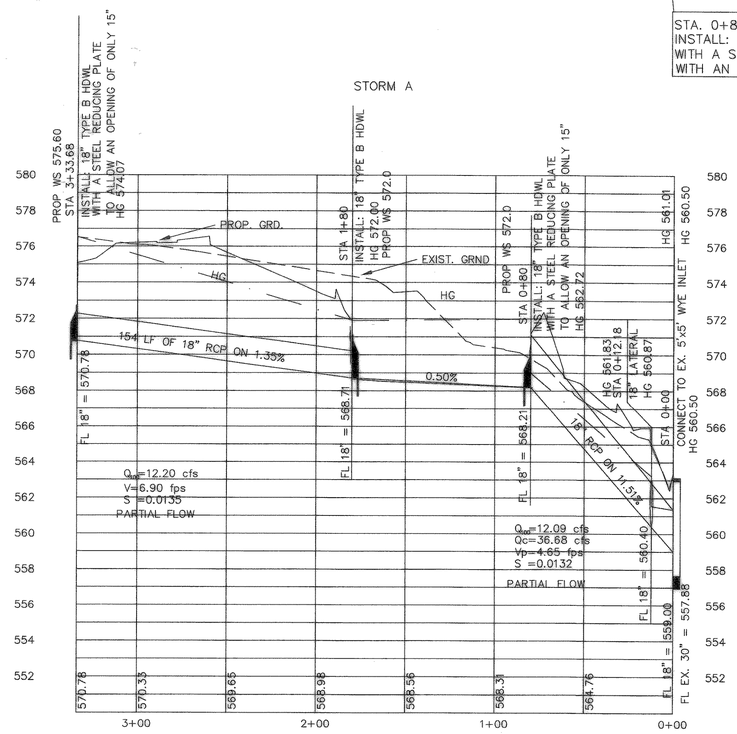
Q_{100}=3.09 cfs
V=4.58 fps
S =0.0009

PLAN VIEW OF CHANNEL
NTS





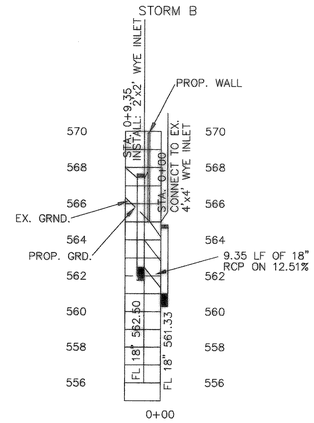
STORM A



Q_{100}=12.20 cfs
V=6.90 fps
S =0.0135
PARTIAL FLOW

Q_{100}=12.09 cfs
Qc=36.68 cfs
Vp=4.65 fps
S =0.0132
PARTIAL FLOW

STORM B



Q_{100}=4.06 cfs
Qc=37.15 cfs
V=10.92 fps
S =0.0022

Q_{100}=18.38 cfs
Qc=36.68 cfs
Vp=9.05 fps
S =0.0306
PARTIAL FLOW

RECORD DRAWING

THIS DRAWING HAS BEEN REVISED TO REFLECT CONSTRUCTION RECORDS MAINTAINED AND PROVIDED BY THE CONTRACTOR FOR THIS PROJECT.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY W.L. DOUPHRATE III TEXAS P.E. NO. 60102 ON 4/8/02

DOUPHRATE & ASSOCIATES, INC.
ENGINEERING • PROJECT MANAGEMENT • SURVEYING
2231 RIDGE RD., # 200 ROCKWALL, TEXAS 75087
PHONE: (972)771-9004 FAX: (972)771-9005

STORM PLAN
JUSTIN ROAD PROFESSIONAL PARK
CITY OF ROCKWALL, TEXAS
COUNTY OF ROCKWALL

REVISION	
CHECKED	W.L.D.
DRAWN	A.W
DATE	2/01
PROJECT	0028STM1