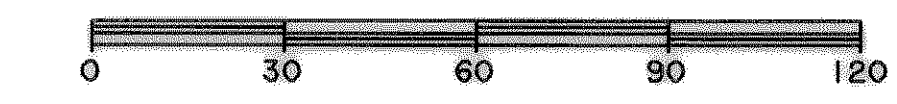
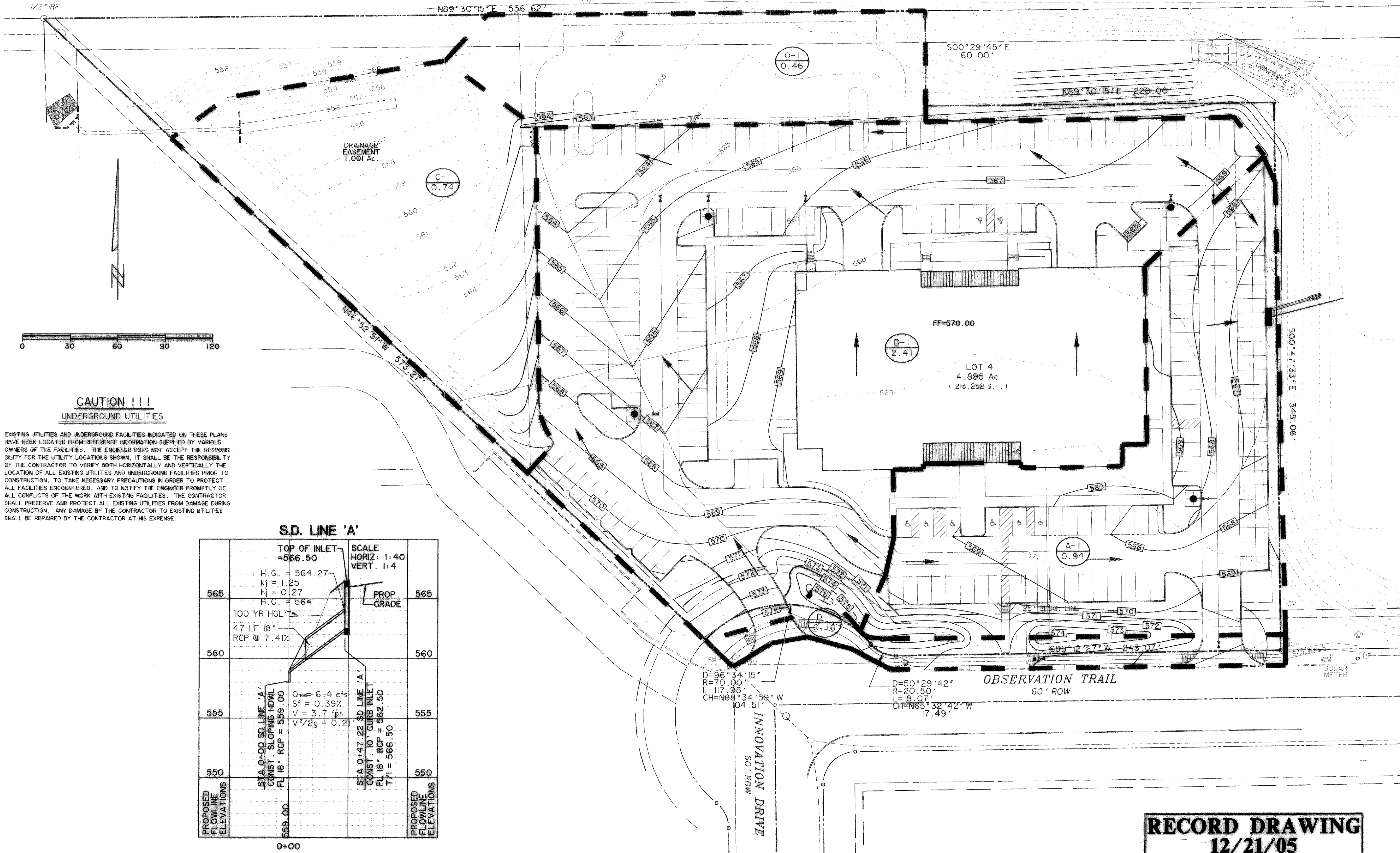


DRAINAGE AREA CALCULATIONS

Drainage Area	Acreage	T/C	Runoff Coefficient	I_2	I_{100}	Q2	Q100	Outlet Point
A-1	0.94	10	0.7	5.4	9.8	3.6	6.4	10' Curb Inlet
B-1	2.41	10	0.7	5.4	9.8	9.1	16.5	12' Flume
C-1	0.74	10	0.7	5.4	9.8	2.8	5.1	Ex. Detention Pond
D-1	0.16	10	0.7	5.4	9.8	0.6	1.1	Parkway
O-1	0.46	10	0.7	5.4	9.8	1.7	3.2	Offsite

BENCHMARK
BOX CUT ON THE NORTH CURB LINE OF OBSERVATION TRAIL AT THE BEGINNING OF THE CUL-DE-SAC WITH INNOVATION DRIVE
ELEV. = 573.23 FEET



CAUTION !!!
UNDERGROUND UTILITIES

EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION SUPPLIED BY VARIOUS OWNERS OF THE FACILITIES. THE ENGINEER DOES NOT ACCEPT THE RESPONSIBILITY FOR THE UTILITY LOCATIONS SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BOTH HORIZONTALLY AND VERTICALLY THE LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION. TO TAKE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED, AND TO NOTIFY THE ENGINEER PROMPTLY OF ALL CONFLICTS OF THE WORK WITH EXISTING FACILITIES. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGE BY THE CONTRACTOR TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

S.D. LINE 'A'

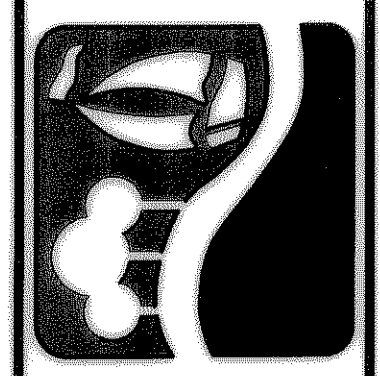
PROPOSED FLOWLINE ELEVATIONS	STA 0+00 SD LINE 'A' CONST. SLOPING HDWL FL 18' RCP = 559.00	SCALE HORIZ: 1:40 VERT: 1:4	TOP OF INLET = 566.50	PROPOSED FLOWLINE ELEVATIONS
559.00			H.G. = 564.27 kj = 1.25 hj = 0.27 H.G. = 564	565
560.00			100 YR HGL 47 LF 18" RCP @ 7.41%	560
555.00			PROP. GRADE	555
550.00			STA 0+47.22 SD LINE 'A' CONST. 10' CURB INLET FL 18' RCP = 562.50 T/I = 566.50	550

Q₁₀₀ = 6.4 cfs
Sf = 0.39%
V = 3.7 fps
V²/2g = 0.2

RECORD DRAWING
12/21/05

TIME: 9:51 FILE: DA MAP-98041_02.dwg

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CITY OF
ROCKWALL
EMPHYSIS

DRAINAGE AREA MAP

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