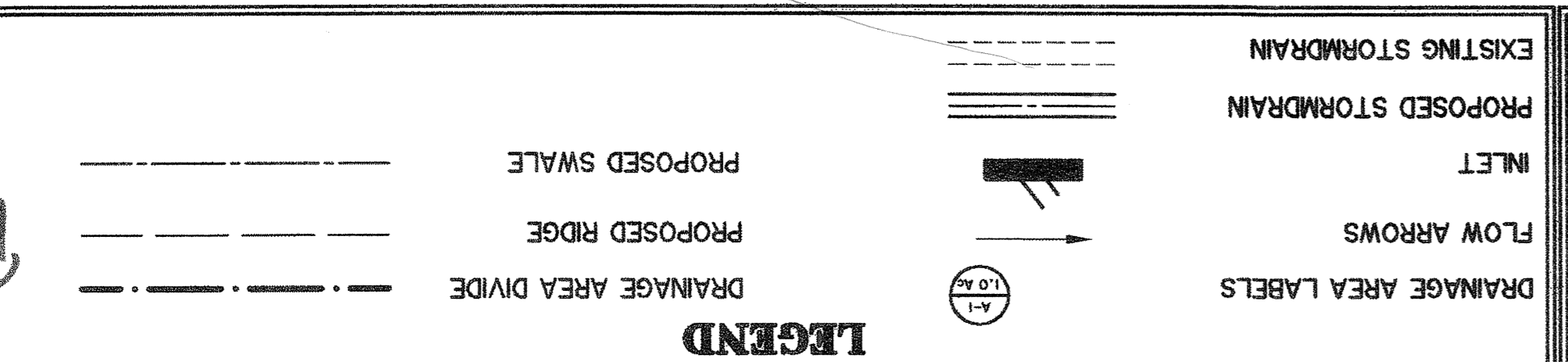
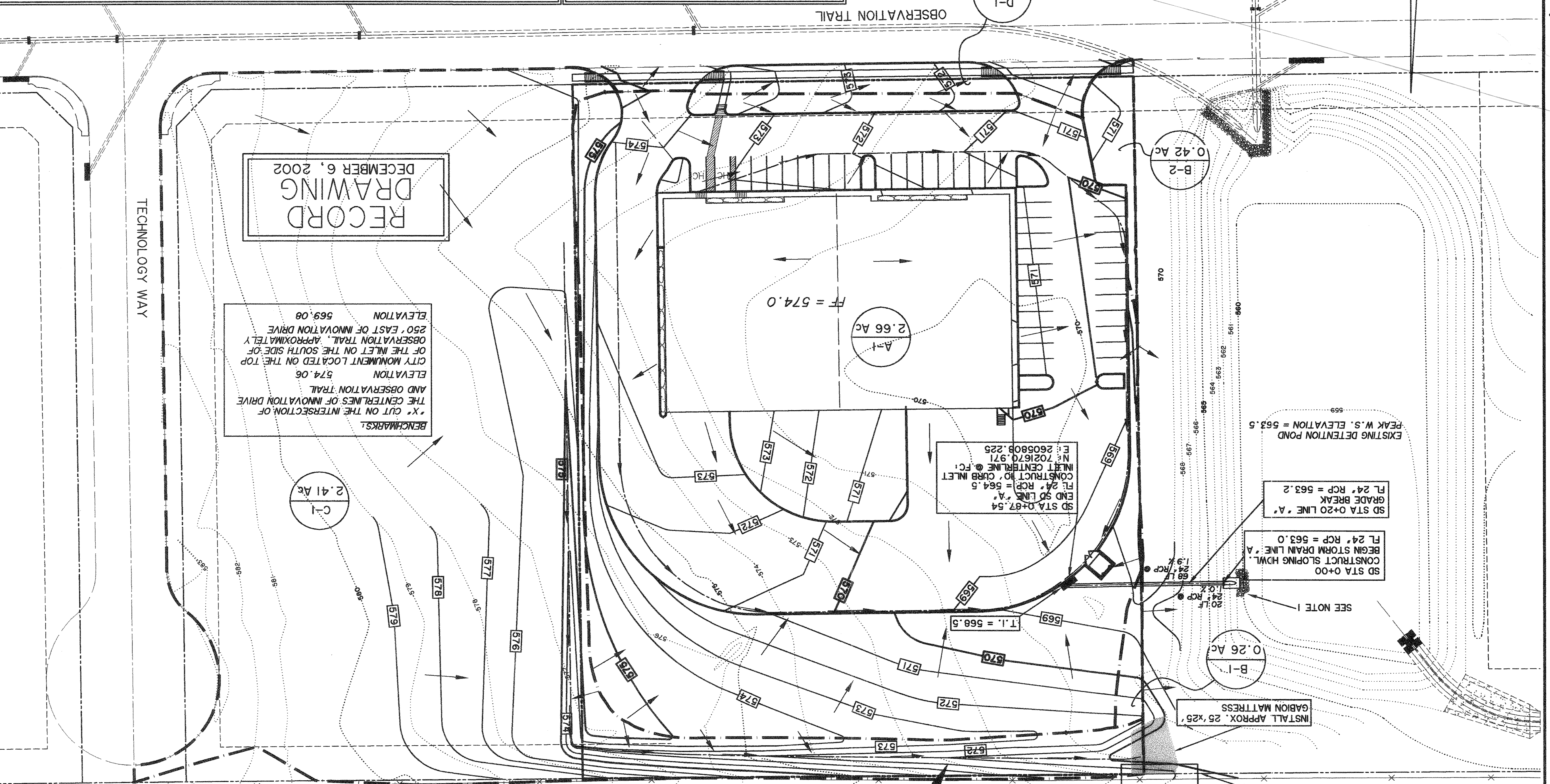




NOTES:
 1. ALL ON-SITE GRASS AREAS AND REGRADED OFFSITE AREAS SHALL BE SODED. CONTRACTOR SHALL APPLY WATER, FERTILIZER, AND ALL OTHER NECESSARY NUTRIENTS AND CARE UNTIL ROOT SYSTEMS ARE ESTABLISHED.



SHEET NO. 7
 DATE: 12-07-2002
 LAST SHEET OF 7
 WIER & ASSOCIATES, INC.
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 RONALD RAINIER
 81821
 STATE OF TEXAS



RECORD DRAWING
 DECEMBER 6, 2002

BENCHMARKS:
 'X' CUT ON THE INTERSECTION OF THE CENTERLINES OF INNOVATION DRIVE AND OBSERVATION TRAIL.
 ELEVATION 574.06
 CITY MONUMENT LOCATED ON THE TOP OF THE INLET ON THE SOUTH SIDE OF OBSERVATION TRAIL, APPROXIMATELY 250' EAST OF INNOVATION DRIVE.
 ELEVATION 569.08

SD STA 0+27.54
 END SD LINE 'A'
 FL 24' RCP = 564.5
 CONSTRUCT NO. CURB INLET
 INLET CENTERLINE @ FC:
 N: 7021670.971
 E: 2605808.225

SD STA 0+00
 CONSTRUCT SLOPING HDWL.
 BEGIN STORM DRAIN LINE 'A'
 FL 24' RCP = 563.0
 GRADE BREAK
 FL 24' RCP = 563.2
 EXISTING DETENTION POND
 PEAK W.S. ELEVATION = 563.5

INSTALL APPROX. 25' x 25'
 GABION MATRESS

CHANNEL CALCULATIONS
 MAX SIDE SLOPE: 3H:1V
 $Q_{100} = 21.3$ CFS
 $N = 0.03$
 $S = 0.87\%$
 $V = 3.6$ FT/S
 $V_c = 1.26$
 MAX DEPTH = 1.4'

DRAINAGE AREA CALCULATIONS

AREA	DESIGNATION	ACREAGE	TIME OF CONCENTRATION (MIN)	FACTOR	INTENSITY (IN/HR)	RAINFALL INTENSITY (CFS)	REMARKS
A-1		2.66	10.0	0.90	9.80	23.5	
B-1		0.26	10.0	0.90	9.80	2.3	
B-2		0.42	10.0	0.90	9.80	3.7	
C-1		2.41	10.0	0.90	9.80	21.3	0.3 cfs temporary condition
D-1		0.11	10.0	0.35	9.80	0.58	

PRECISION SHEET METAL DRAINAGE AREA MAP & STORM DRAIN PLAN

PREPARED BY:
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