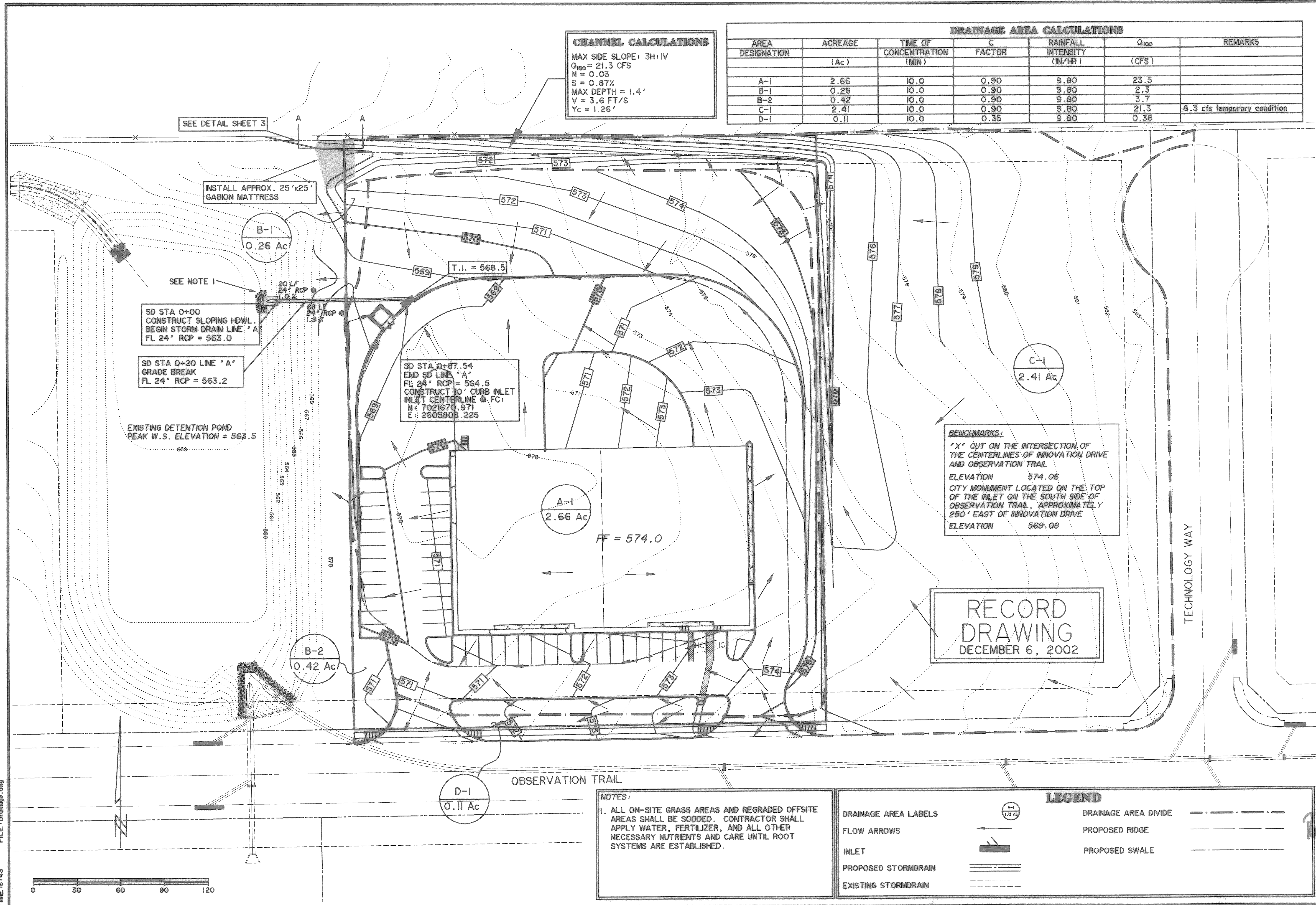


**CHANNEL CALCULATIONS**  
 MAX SIDE SLOPE: 3H:1V  
 $Q_{100} = 21.3$  CFS  
 $N = 0.03$   
 $S = 0.87\%$   
 MAX DEPTH = 1.4'  
 $V = 3.6$  FT/S  
 $Y_c = 1.26'$

DRAINAGE AREA CALCULATIONS						
AREA DESIGNATION	ACREAGE (Ac)	TIME OF CONCENTRATION (MIN)	C FACTOR	RAINFALL INTENSITY (IN/HR)	$Q_{100}$ (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	6.3 cfs temporary condition
D-1	0.11	10.0	0.35	9.80	0.38	



SEE DETAIL SHEET 3

INSTALL APPROX. 25'x25' GABION MATTRESS

B-1  
0.26 Ac

SEE NOTE 1

SD STA 0+00  
CONSTRUCT SLOPING HDWL.  
BEGIN STORM DRAIN LINE "A"  
FL 24" RCP = 563.0

SD STA 0+20 LINE "A"  
GRADE BREAK  
FL 24" RCP = 563.2

EXISTING DETENTION POND  
PEAK W.S. ELEVATION = 563.5

SD STA 0+87.54  
END SD LINE "A"  
FL 24" RCP = 564.5  
CONSTRUCT 10' CURB INLET  
INLET CENTERLINE @ FC:  
N: 7021670.971  
E: 2605809.225

A-1  
2.66 Ac

FF = 574.0

C-1  
2.41 Ac

**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

RECORD  
DRAWING  
DECEMBER 6, 2002

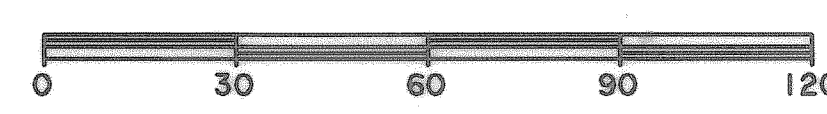
D-1  
0.11 Ac

OBSERVATION TRAIL

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

DRAINAGE AREA LABELS  
 FLOW ARROWS  
 INLET  
 PROPOSED STORMDRAIN  
 EXISTING STORMDRAIN

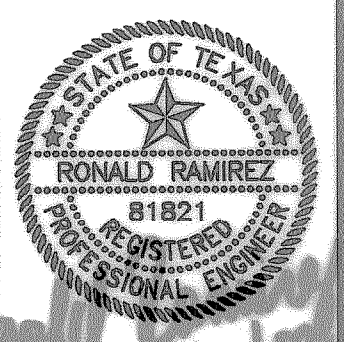
**LEGEND**  
 DRAINAGE AREA DIVIDE  
 PROPOSED RIDGE  
 PROPOSED SWALE



FILE: Drainage.dwg  
TIME: 16:43

PREPARED BY:  
**VIA WIER & ASSOCIATES, INC.**  
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**PRECISION SHEET METAL  
 DRAINAGE AREA MAP  
 & STORM DRAIN PLAN**



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**SHEET NO. 7**