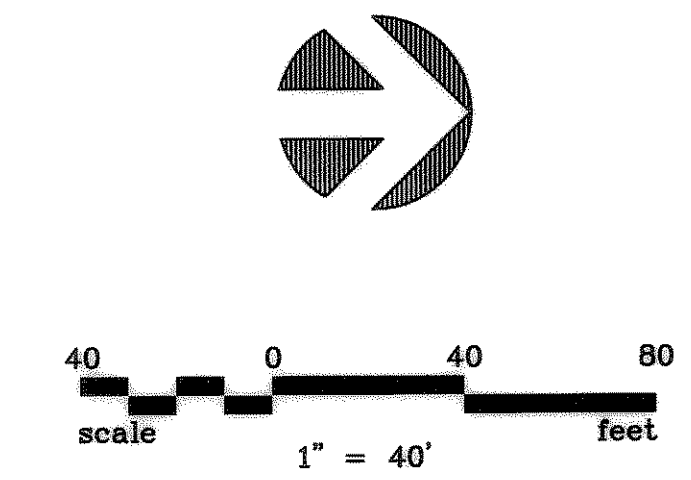
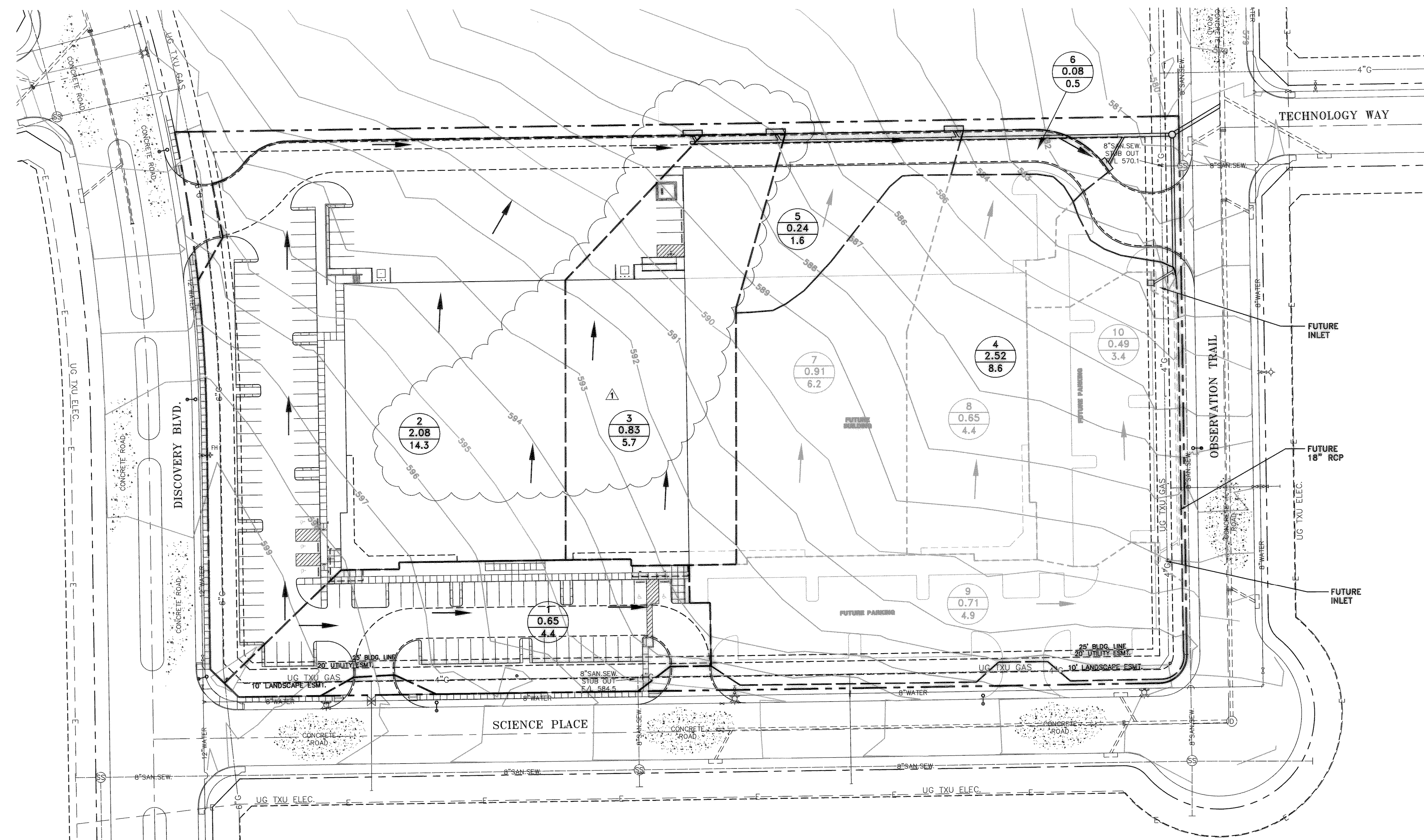


NO.	DATE	REVISION	APPROV.
1	8/30/00	REVISED DRAINAGE AREAS & CALCULATIONS	JFW
2	10/09/01	REVISED PER CONSTRUCTION RECORDS	JFW
3			



DRAINAGE AREA CALCULATIONS

Drainage Area	Runoff Coeff. "C"	Intensity I (in./hr.)	Area (Ac.)	"q" (c.f.a.)
1	2	3	4	5
1	0.7	9.8	0.65	4.4
2	0.7	9.8	2.08	14.3
3	0.7	9.8	0.83	5.7
4	0.35	9.8	2.52	8.6
5	0.7	9.8	0.24	1.6
6	0.7	9.8	0.08	0.5
7	0.7	9.8	0.91	6.2
8	0.7	9.8	0.65	4.4
9	0.7	9.8	0.71	4.9
10	0.7	9.8	0.49	3.4

LEGEND

- 3
0.59
4.0 → DRAINAGE AREA NO.
→ DRAINAGE AREA IN ACRES
→ Q₁₀₀ IN CFS
- 4
0.91
6.2 → FUTURE DRAINAGE AREA NO.
→ FUTURE DRAINAGE AREA IN ACRES
→ FUTURE Q₁₀₀ IN CFS

INLET CALCULATIONS

INLET No.	Location	Design Storm Frequency (yrs.)	AREA RUNOFF Q = CIA					Carry-Over From Upstream Inlet (c.f.a.)	Total Gutter Flow (c.f.a.)	Gutter Capacity (c.f.a.)	Gutter Slope (ft./100ft.)	Cross Slope (in./ft.)	Crown Type	SELECTED INLET		Carry-Over to Downstream Inlet (c.f.a.)	
			Time of Conc. (min.)	Intensity I (in./hr.)	Runoff Coeff. "C"	Area (Ac.)	"q" (c.f.a.)							Length (Feet)	Type		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1		100	10	9.8	0.7	0.65	4.4	0	4.4	8.5 ⁽¹⁾	0.50	1/2	STRAIGHT	N/A	-	-	4.4
2		100	10	9.8	0.7	2.08	14.3	0	14.3	13.0 ⁽²⁾	0.70	3/16	STRAIGHT	8.0	14'	I	6.3
3		100	10	9.8	0.7	0.83	5.7	6.3	12.0	13.0 ⁽²⁾	0.70	3/16	STRAIGHT	8.0	14'	I	4.0
4		100	10	9.8	0.35	2.52	8.6	4.4	13.0	-	-	SAG	-	33.0	3x3 "Y"	Y	0
5		100	10	9.8	0.7	0.24	1.6	4.0	5.6	13.0 ⁽²⁾	0.70	3/16	STRAIGHT	8.0	14'	I	0
6		100	10	9.8	0.7	0.08	0.5	0	0.5	19.0 ⁽¹⁾	2.86	1/2	STRAIGHT	6.2	10'	I	0
7	FUTURE	100	10	9.8	0.7	0.91	6.2	1.8	8.0	13.0 ⁽²⁾	0.70	3/16	STRAIGHT	8.0	14'	I	0
8	FUTURE	100	10	9.8	0.7	0.65	4.4	0	4.4	19.0 ⁽¹⁾	2.86	1/2	STRAIGHT	6.2	10'	I	0
9	FUTURE	100	10	9.8	0.7	0.71	4.9	4.4	9.3	-	0.70	1/2	STRAIGHT	21.0	10'	I A	0
10	FUTURE	100	10	9.8	0.7	0.49	3.4	0	3.4	-	0.70	1/2	STRAIGHT	21.0	10'	I A	0

(1) GUTTER CAPACITY BASED ON 0.50' DEPTH AT CURB.
(2) GUTTER CAPACITY BASED ON 24' LANE AT 3/16 IN/FT = 0.375' DEPTH

RECORD DRAWING
BASED ON CONTRACTOR MARKUPS,
NOT FIELD SURVEY.

DATE: JUNE 2000 SCALE: 1"=40' JOB NO.: 00-226
DRAWN: GBW DESIGN: JFW REVIEWED: DWG: DRN-AREA.DWG

REDC PHASE I OFFICE/WAREHOUSE DRAINAGE AREA MAP

ROCKWALL ECONOMIC DEVELOPMENT CORPORATION

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SHT. 4
OF 7