HYDROLOGY K11/D27 2 PLANS

K11/D27

2 Plans

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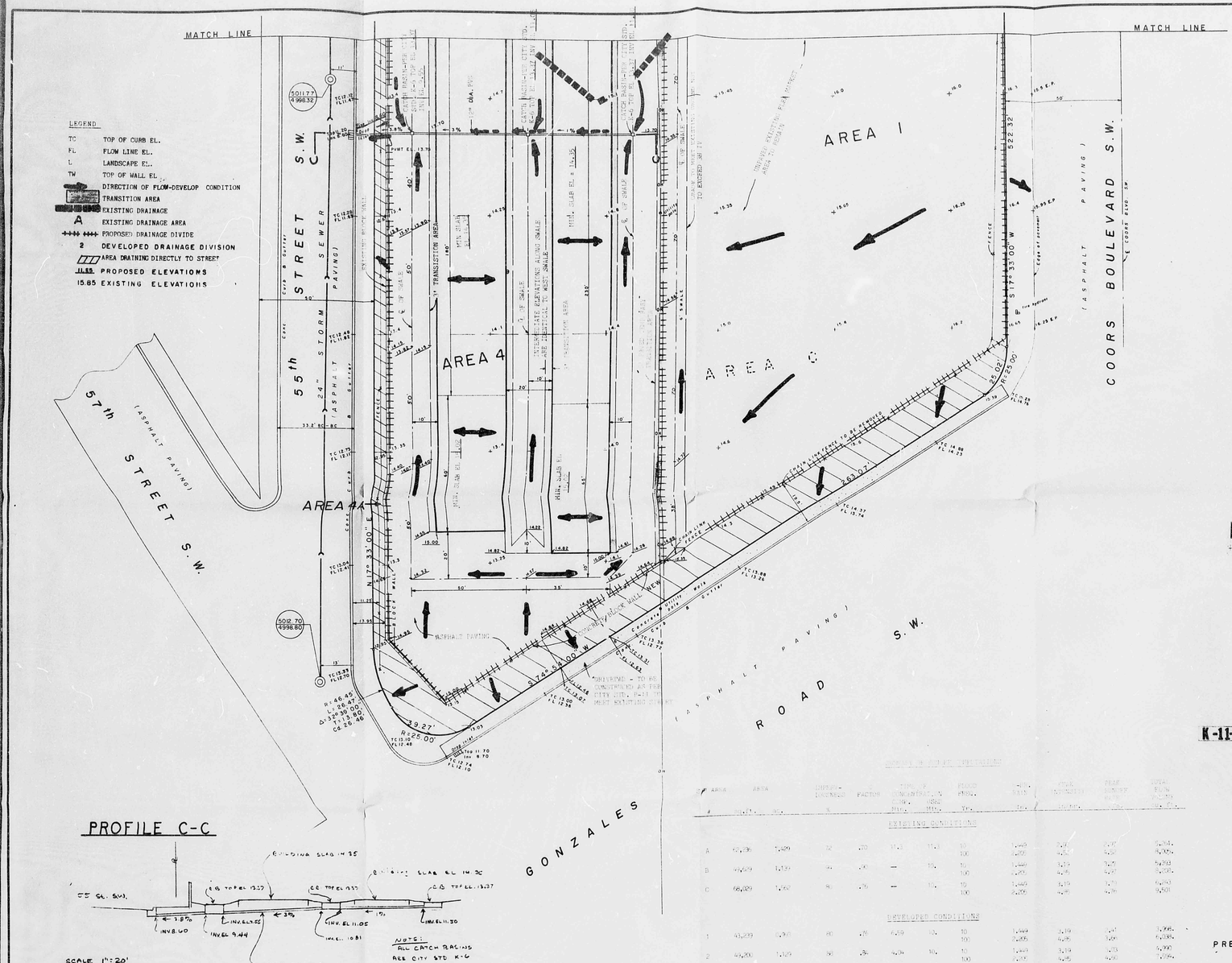


COMPUTATION OF DRAINAGE FACILITIES

A. Swales between storage buildings

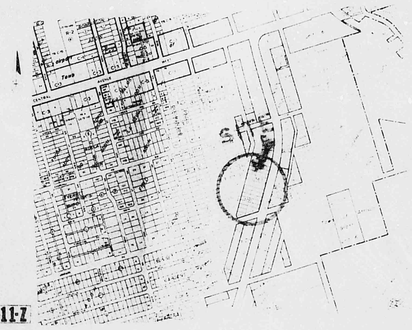
1) 3 inch depth, 14 ft. width
n = 0.02, A = 1.[illegible], R = [illegible]
Q = 2.30 cfs.

2) 4 inch depth, 14 ft. width
n = 0.02, A = 2.31, R = 0.165
Q = 8.60 cfs.

B. Swale on West side of [illegible]
6 inch depth, 10 ft. width
n = 0.02, A = 2.[illegible], R = [illegible]
Q = 4.05 cfs.

C. Swale on West side of [illegible]
6 inch depth, 20 ft. width
n = 0.02, A = 5.[illegible], R = [illegible]
Q = 8.1 cfs.

D. Capacity of Storm Sewer [illegible]
n = 0.013, A = 3.14, R = [illegible]
Q = 8.98 cfs.



Area	Area	Runoff Coefficient	Factor	Time of Concentration (Min)	Rainfall Intensity (Min)	Rainfall Intensity (Hr)	Runoff Rate	Runoff Volume	Peak Runoff Rate	Total Runoff Volume
EXISTING CONDITIONS										
A	52,236	1.029	12	.70	11.1	11.0	10	1.029	2.57	2,570.
							100	2.06	4.45	4,450.
B	44,559	1.139	44	.40	—	10.	10	1.139	2.84	3,240.
							100	2.28	4.92	5,200.
C	66,029	1.142	8	.70	—	10.	10	1.142	2.85	3,250.
							100	2.28	4.92	5,500.
DEVELOPED CONDITIONS										
1	43,239	0.97	80	.38	6.19	10.	10	1.940	2.19	2,120.
							100	3.88	4.38	4,230.
2	44,200	1.09	94	.34	4.34	10.	10	1.09	2.43	2,390
							100	2.18	4.85	4,800.
3	23,287	0.95	100	.48	3.40	10.	10	1.140	2.75	1,590.
							100	2.28	4.85	2,700.
3A	1,127	0.95	0	.34	—	10.	10	1.140	2.55	50.
							100	2.28	4.85	70.
4	59,203	1.02	100	.38	4.40	10.	10	1.140	2.19	2,770.
							100	2.28	4.85	5,600
4A	4,128	0.89	3	.25	—	10.	10	1.140	2.19	270.
							100	2.28	4.85	390.
6	32,495	0.92	94	.25	10.0	10.	10	1.140	2.19	1,940.
							100	2.28	4.85	3,750

All Elevations are to Albuquerque City Datum

Benchmark used "16-K11"
Located west of house number [illegible] on the North bonnet bolt on fire hydrant.
Elevation: 5012.372 feet

PREPARED BY:

SOUTHWEST SURVEYING CO
215 MARBLE N.W.
ALBQ., N.M. 87102
247-4444

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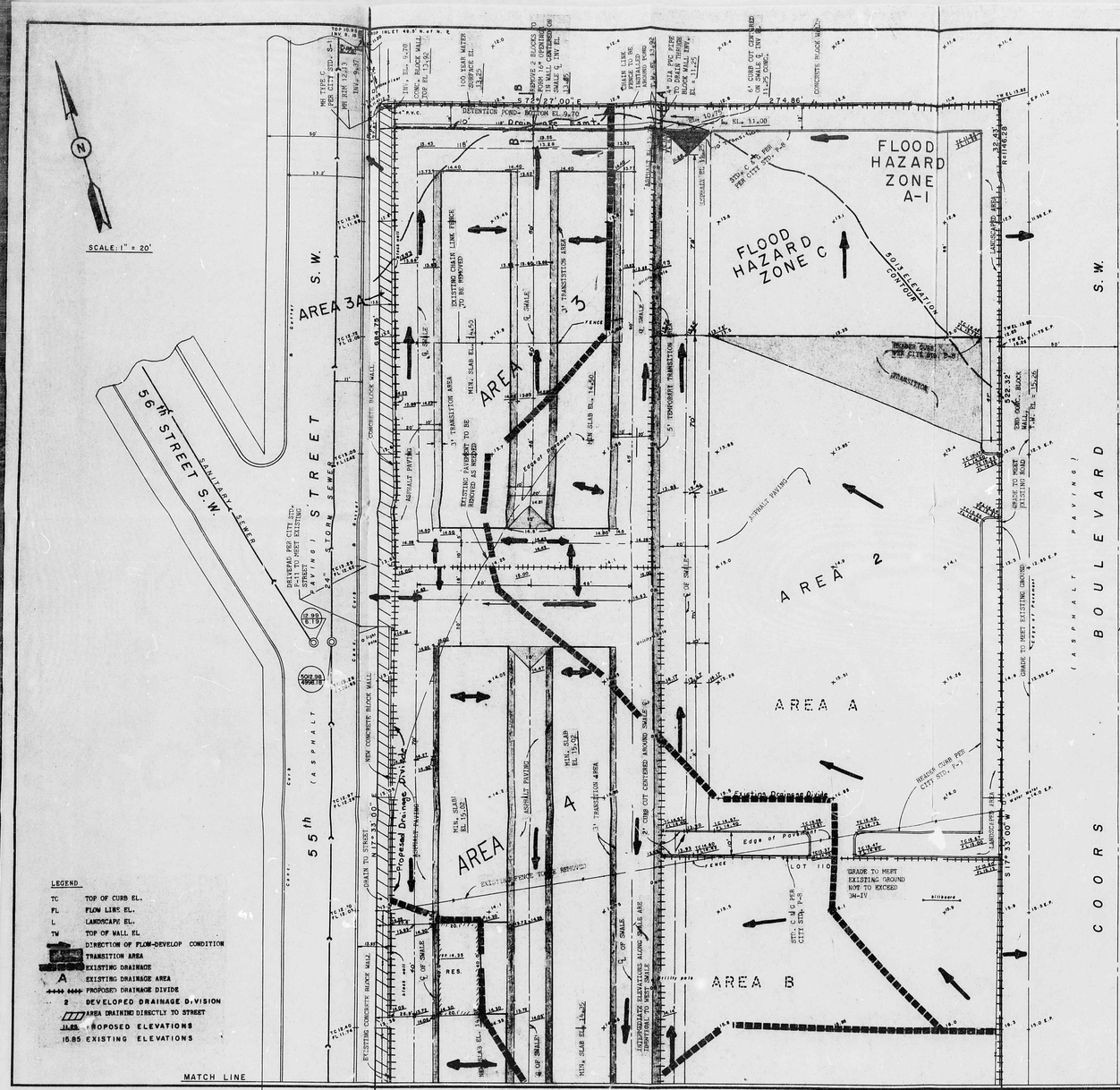
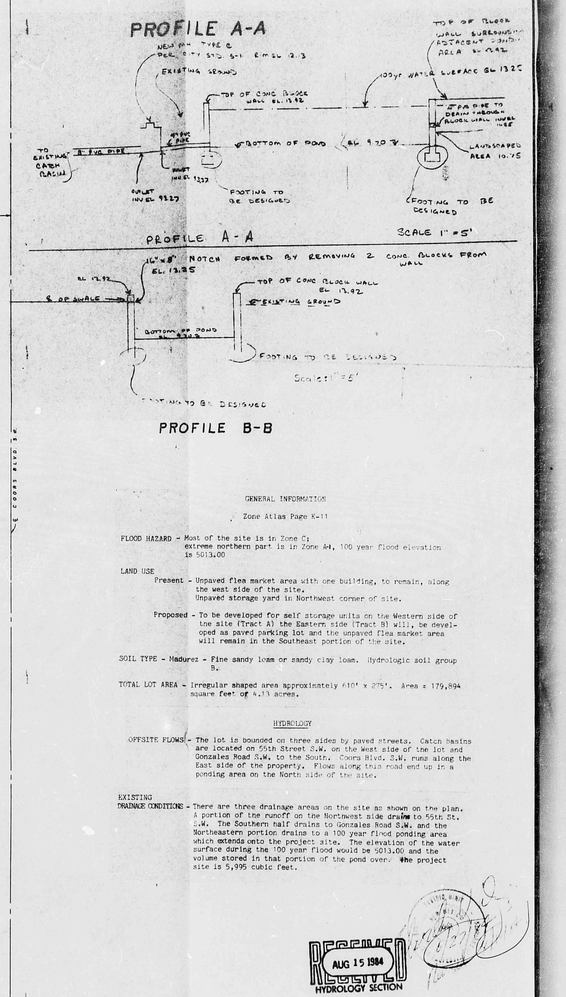


DRAINAGE AND GRADING PLAN



GENERAL INFORMATION

Zone Atlas Page K-11

FLOOD HAZARD - Most of the site is in Zone C; extreme northern part is in Zone A1, 100 year flood elevation is 5013.00

LAND USE

Present - Unpaved flea market area with one building, to remain, along the west side of the site.
Unpaved storage yard in Northwest corner of site.

Proposed - To be developed for self storage units on the Western side of the site (Tract A) the Eastern side (Tract B) will, be developed as paved parking lot and the unpaved flea market area will remain in the Southeast portion of the site.

SOIL TYPE - Madurez - Fine sandy loam or sandy clay loam. Hydrologic soil group B.

TOTAL LOT AREA - Irregular shaped area approximately 610' x 275'. Area = 179,894 square feet of 4.13 acres.

HYDROLOGY

OFFSITE FLOWS - The lot is bounded on three sides by paved streets. Catch basins are located on 55th Street S.W. on the West side of the lot and Gonzales Road S.W. to the South. Coors Blvd. S.W. runs along the East side of the property. Flows along this road end up in a ponding area on the North side of the site.

EXISTING DRAINAGE CONDITIONS - There are three drainage areas on the site as shown on the plan. A portion of the runoff on the Northwest side drains to 55th St. S.W. The Southern half drains to Gonzales Road S.W. and the Northeastern portion drains to a 100 year flood ponding area which extends onto the project site. The elevation of the water surface during the 100 year flood would be 5013.00 and the volume stored in that portion of the pond over the project site is 5,995 cubic feet.

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