



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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PLANNING/DEVELOPMENT

BILL MUELLER

March 30, 1988

Daniel B. Martinez
Design & Development Division
5501 Pino, NE Building A
Albuquerque, New Mexico 87109

RE: DRAINAGE PLAN FOR GRECIAN PARK
(E-14/D1A)

Dear Mr. Martinez:

Mr. Fred Aguirre has asked me to address the drainage criteria for the proposed Grecian Park. I received existing and proposed contours for the park.

Retention ponds will be an acceptable method for controlling runoff from the park. Minimal downstream drainage facilities and the pervious nature of a park allow the use of retention ponds.

I have divided the park into four drainage basins as shown on the attached drawing. Basin 1 is bounded on the west by an existing ditch. Minor off-site flows should be allowed to enter the park from Grecian Drive and the private property west of Camino Floretta. The proposed retention volume is in excess of what is required. Basin 2 is bounded by Camino Floretta and Grecian Drive. My only recommendation is that the nuisance flows be directed to the center pond and not be allowed to run in the adjoining streets. The proposed retention volume is in excess of what is required. Basin 3 is directing its runoff to Calle Diez. This drainage solution will have nuisance flows on relatively flat streets where ponding is an existing problem. I suggest using swales and a small depression to capture the basins runoff. This pond would be minimal as shown on my calculation sheet. Basin 4 has the same problem as Basin 3 and I make the same suggestion. If depressions are not acceptable, please elevate the property borders to keep nuisance flows in the park.

When final drawings are completed, please submit them this office for review and approval. Should you have any questions, call 768-2650.

Cordially,

Carlos A. Montoya, P.E.

City/County Floodplain Administrator

CAM/bsj

PONDING REQUIREMENTS

AREA DIVIDED INTO FOUR BASINS
AS SHOWN ON DRAWING.

USE 2.2 in. OF RAINFALL PER DPM 22.2 D-1

USE CN=61 PER DPM 22.2 C-2

Therefore Direct Runoff = 0.2 inches per 22.2 C-4

BASIN 1

$$\frac{0.2 \text{ in}}{12} \times 1.29 \text{ Ac} \times 43560 \frac{\text{sq ft}}{\text{Ac}} = 940 \text{ cu ft}$$

BASIN 2

$$\frac{0.2 \text{ in}}{12} \times 1.84 \text{ Ac} \times 43560 = 1340 \text{ cu ft}$$

BASIN 3

$$\frac{0.2 \text{ in}}{12} \times 0.4 \text{ Ac} \times 43560 = 290 \text{ cu ft}$$

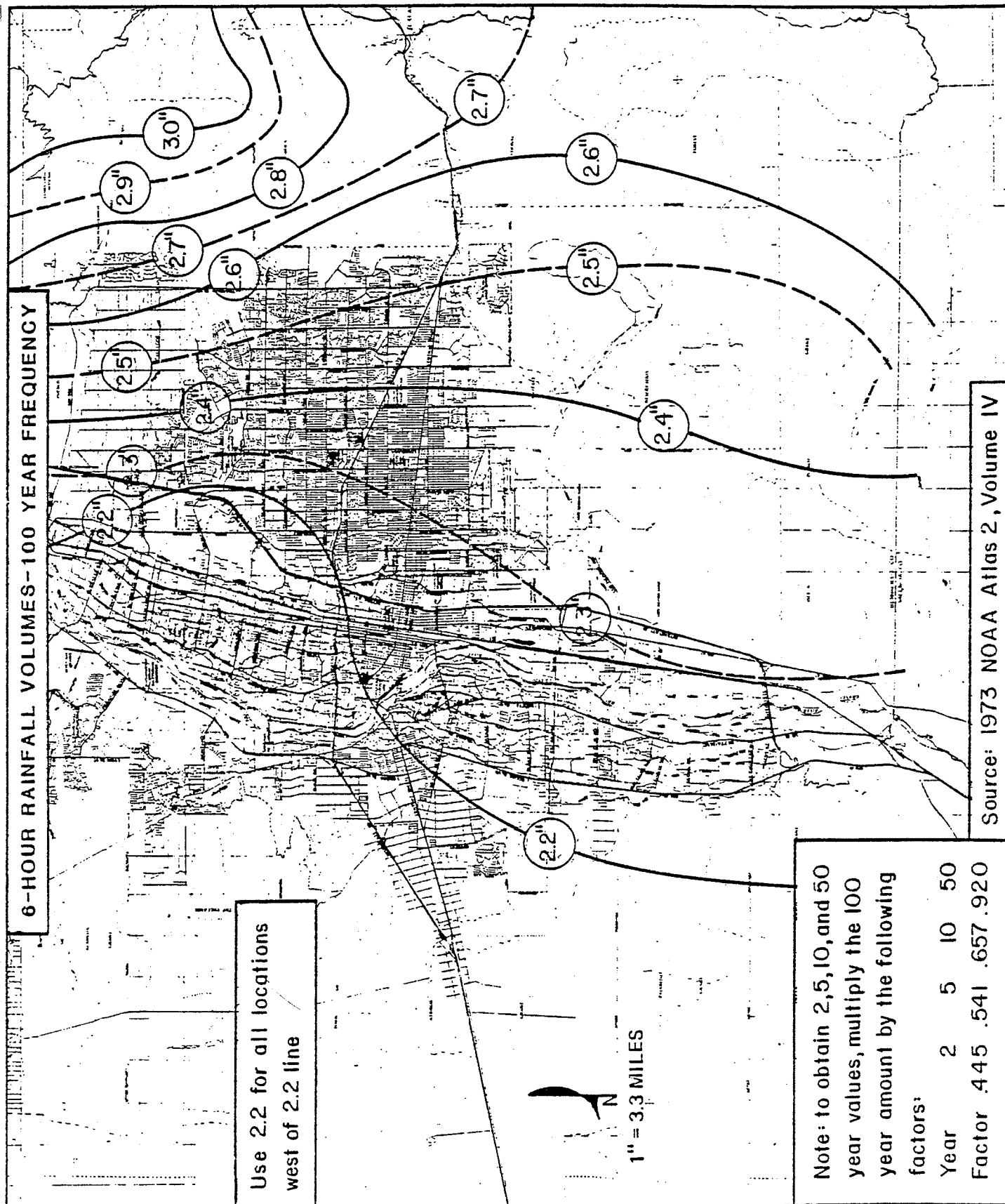
BASIN 4

$$\frac{0.2 \text{ in}}{12} \times 0.37 \text{ Ac} \times 43560 = 270 \text{ cu ft}$$

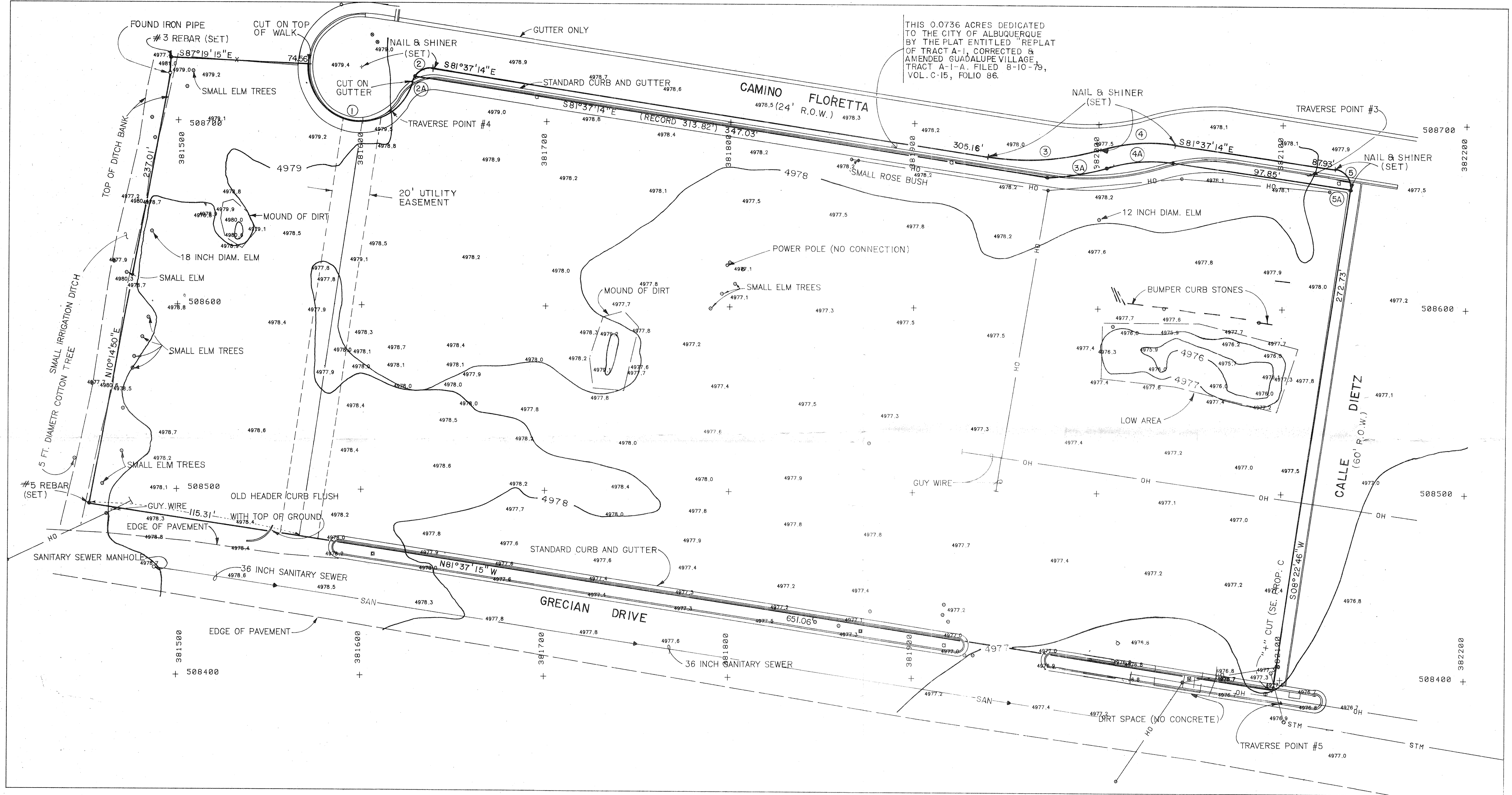
FOR Parks & Rec DESCRIPTION Grecian Park

PREPARED BY CAM DATE 3-30-88 FILE _____

CHECKED BY _____ SHEET 1 of _____



GRECIAN PARK



- LEGEND
- + Supplemental Point
 - Wood Stake
 - Iron Rod
 - Iron Pipe
 - Monument
 - ▲ Traverse Point
 - Solid Square
 - Sprinkler Head
 - Manhole
 - Storm Inlet
 - Valve Box
 - Electric Riser
 - Telephone Riser
 - Gas Riser
 - Water Riser
 - Utility Pole W/Ligh
 - Utility Pole
 - Fire Hydrant
 - Sign Post
 - Deciduous Tree
 - ★ Coniferous Tree
 - Bush
 - Control Point
 - Chain Link Fence
 - Overhead Wire
 - Sanitary Sewer Line
 - Storm Sewer Line
 - Water Line
 - Underground Pipeline
 - Underground Electric
 - Underground Telephon
 - Gas Line

CURVE DATA

① R=29.00' L=84.49' Δ=166°56'02"	② R=10.00' L=14.42' Δ=82°38'03"	②A R=10.00' L=3.95' Δ=22°38'03"	③A R=149.20' L=32.26' Δ=12°23'23"
③ R=140.46' L=61.90' Δ=25°14'56"	④ R=92.46' L=40.74' Δ=25°14'56"	④A R=83.71' L=36.89' Δ=25°14'57"	⑤A R=10.00' L=1.26' Δ=07°13'39"
⑤ R=10.00' L=15.71' Δ=90°00'00"			

CITY OF ALBUQUERQUE
PUBLIC WORKS
Survey Section
9-3-1987

