HYDROLOGY

G11/D6
ONE PLAN

G 11-D6

1 PLAN

DRAINAGE PLAN

The following items concerning the Coronado Savings and Loan-Coors Branch are contained hereon:

1. Vicinity Map
2. Flood Hazard Map
3. Grading Plan
4. Calculations

The proposed building is located at the northeast corner of the intersection of Coors Road N.W. and Redlands Road N.W. The building will be used as an office with adjacent parking for employees and customers.

The land surrounding the project is undeveloped. The site is essentially flat or slightly depressed. Coors Road drains to the south and Redlands Road drains to the west. East of the property, the land slopes upward at a slope of less than 1 percent. The land to the north slopes upward at less than 0.5 percent. The land to the south is at approximately the same elevation. The project (1) does not lie in a flood plain, (2) does not lie adjacent to a natural or artificial water course and (3) has no drainage easements on the property.

The property could receive runoff from the north and east. The flows are not considered major. The runoff from the north will be allowed to enter the site and drain in conjunction with the on-site flows. A curb will be constructed along the east property line to divert flows into Redlands Road. Erosion will result from upland runoff or from the proposed construction activities.

The Grading Plan shows (1) existing contours and 0'-6" intervals, (2) proposed grades indicated by spot elevations, (3) swales, (4) continuity between proposed and existing elevations, (5) no sidewalks will be constructed adjacent to the property line, (6) that all runoff will be conveyed into ponds before leaving the site and (7) that retaining walks are not required.

The ponds will retain the runoff from the additional impervious areas. The ponds will retain in excess of 100 percent of the runoff that results from a 100 year frequency storm. One pond is greater than 18 inches deep and will be surrounded by handrails.

CALCULATIONS

Area of Parcel = 79,131 s.f.

Impervious Area = 74,631 s.f.

Required Pond Volume = 0.1 x 74,631 = 7,403 c.f.

Natural Pond Volume = 350 x 191 x 1/2 = 33,425 c.f.

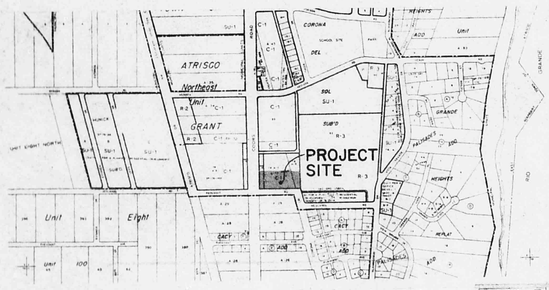
POND VOLUMES

Pond A - 2.8 x 900 x 2.5 = 6,300 c.f.

Pond B - 1.05 x 900 x 1.5 = 1.418 c.f.

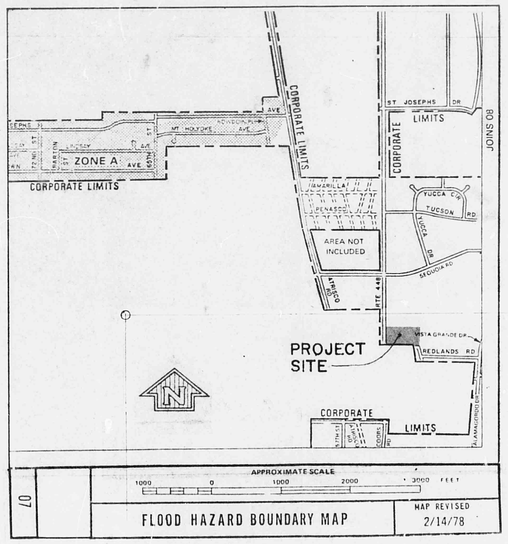
Total Volume Ponds A and B = 7,718 c.f.

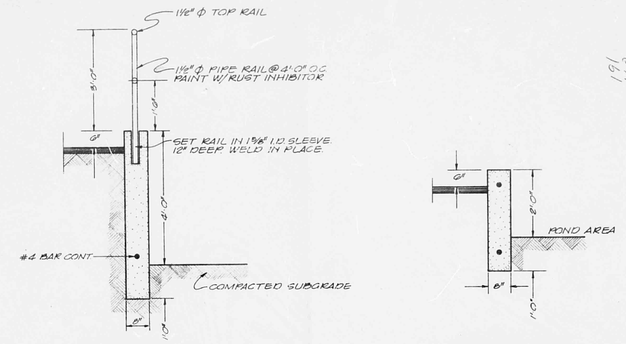
Pond C - $\frac{156 \times 147 + 153 \times 144}{2} \frac{1}{2} + \frac{153 \times 144 + 147 \times 138}{2} (1) = 32,400$ c.f.

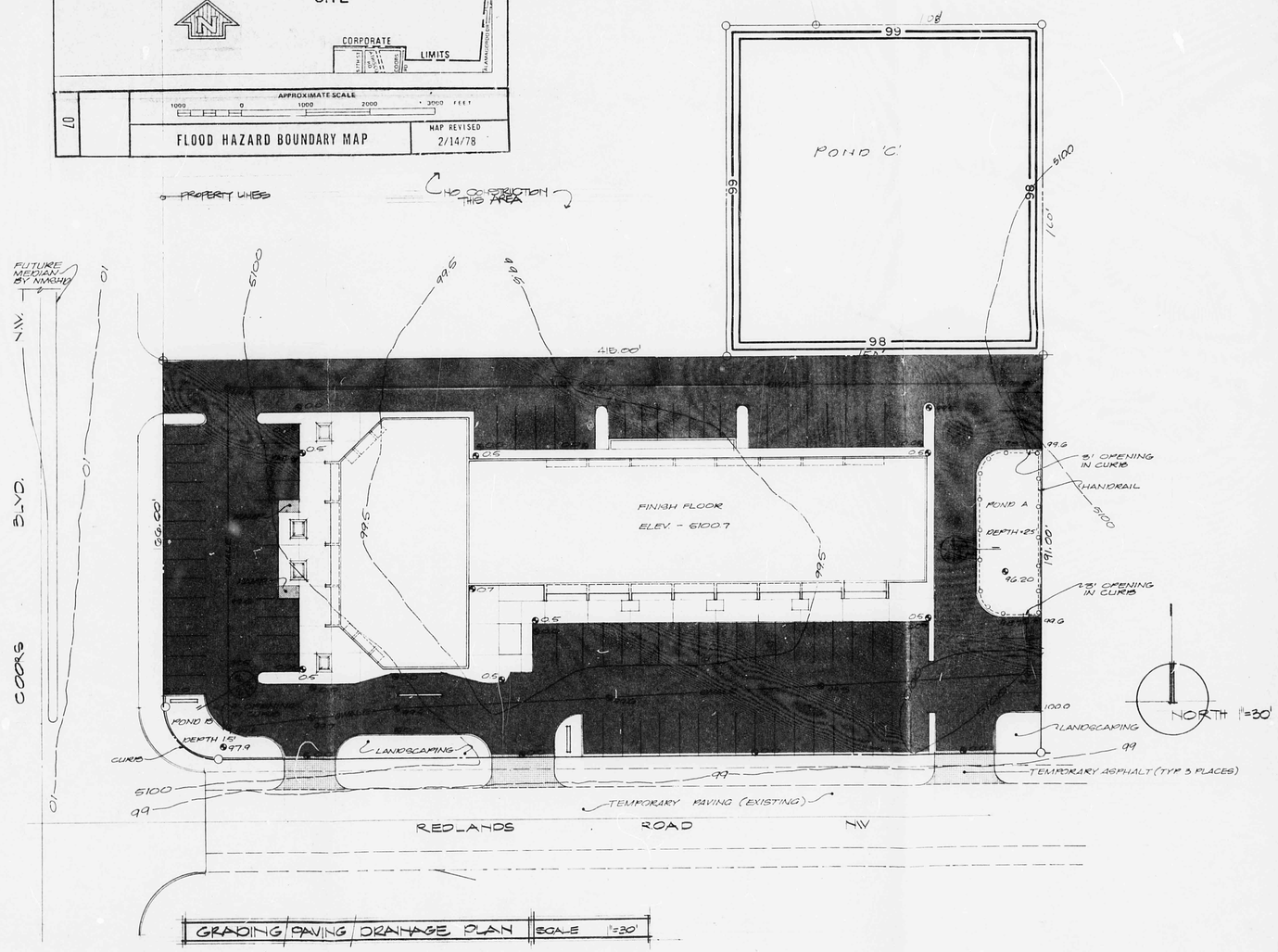


VICINITY MAP

G-11-Z







GRADING PAVING DRAINAGE PLAN SCALE 1"=30'

G11/D6

STATE OF NEW MEXICO REGISTERED ARCHITECT

Architect

Engineer

CORONADO PROFESSIONAL PLAZA

GRADING PAVING & DRAINAGE PLANS

PROJECT 70-13

THE BURNS/PETERS GROUP
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Albuquerque, New Mexico
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Date APRIL 27, 79

Sheet No. 2