HYDROLOGY K14/D5 1 PLAN

K14/D5

1 PLAN

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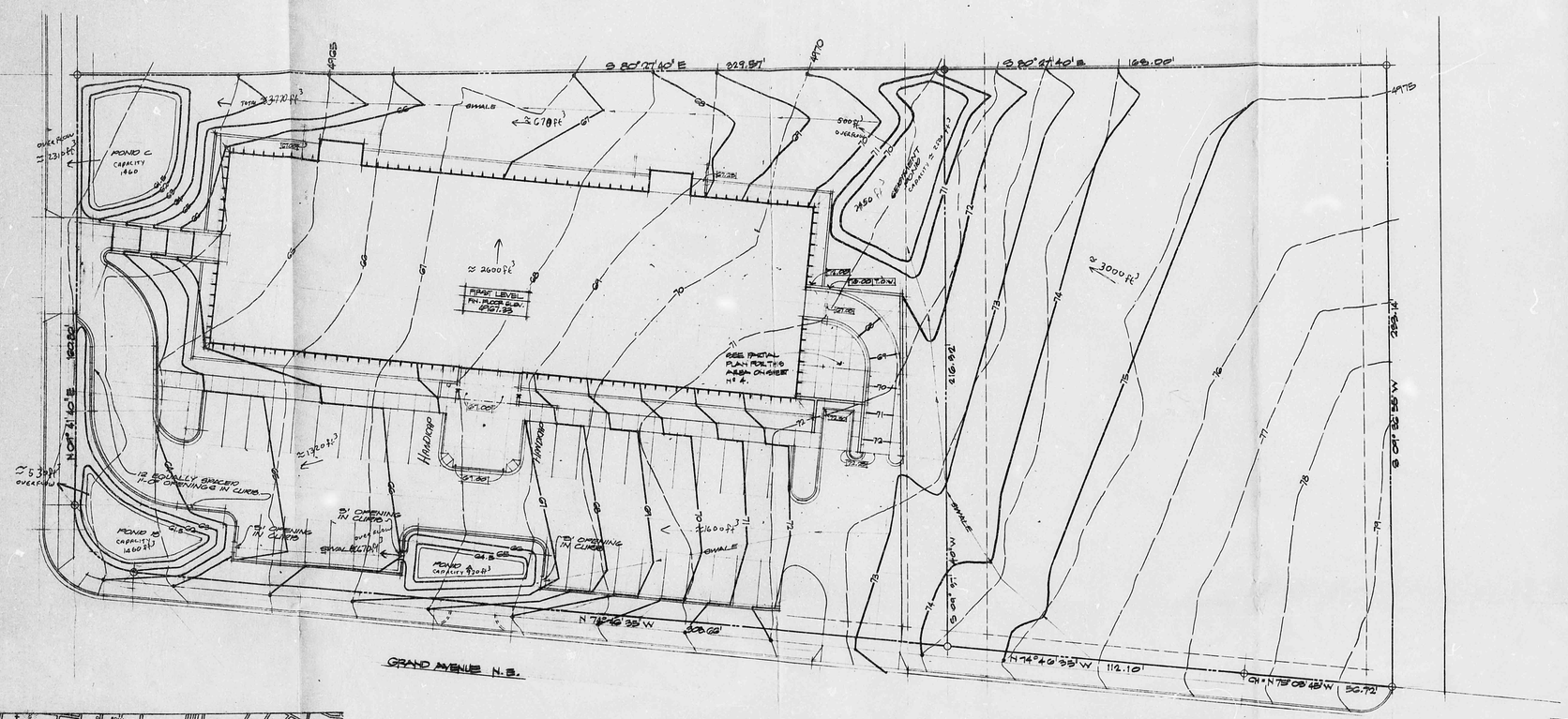
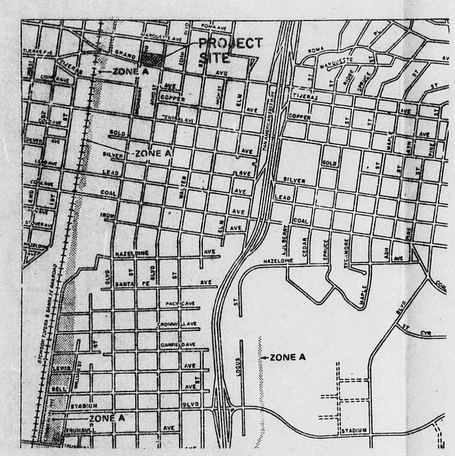
CITY OF ALBUQUERQUE



GRADING - SITE PLAN | SCALE: 1" = 20'-0"



DRAINAGE PLAN

The following items concerning the FBI Building Drainage Plan are contained hereon:

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

The proposed building is located at the northeast corner of the intersection of Grand Avenue, N.E. and Broadway Boulevard, N.E. The building will have offices on the second floor and a parking garage on the ground level. There will be additional parking adjacent to the building. This drainage plan does not provide for any development of the eastern portion of the property.

The natural slope of the land is from east to west at approximately 3 percent. 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 land to the north is multi-family units with a block wall separating the two sites. The site is higher than the two bordering streets, and a paved alley along the east boundary intercepts runoff from the east; therefore, the property does not receive any significant flows from upland properties. Erosion will not result from upland runoff or from the proposed construction activities. This development will not block any drainage from adjacent properties.

The grading plan shows: (1) existing contours at 1'0" intervals, (2) proposed contours, (3) swales, (4) continuity between existing and proposed contours, (5) that the elevation at the property line will match the existing sidewalk, (6) that all runoff will be conveyed into ponding areas before leaving the site and (7) that retaining walls are required adjacent to the driveway ramp.

The ponds will retain in excess of 50 percent of the runoff from the additional impervious areas that result from a 100 year frequency storm. The ponds are 18 inches in depth and therefore do not require fencing.

CALCULATIONS

Area of Parcel = 100,992 s.f.

Impervious Area = 43,495 s.f.

Required Pond Volume = 43,495 x 0.1 = 4,350 c.f.

POND VOLUMES

Pond A

$$\left(\frac{2.3 + 1.3}{2}\right) 1 \ (400) + \left(\frac{1.3 + 0.8}{2}\right) \frac{1}{2} \ (400) = 930 \text{ c.f.}$$

Pond B

$$\left(\frac{3.4 + 2.1}{2}\right) 400 \ (1) + \left(\frac{2.1 + 1.5}{2}\right) \frac{1}{2} \ (400) = 1,460 \text{ c.f.}$$

Pond C

Note: Entire roof slopes to north. All runoff will go to Pond C.

$$\left(\frac{4.7 + 3.4}{2}\right) 400 \ (1) + \left(\frac{3.4 + 2.9}{2}\right) \frac{1}{2} \ (400) = 2,250 \text{ c.f.}$$

Total Pond Volume = 4,640 c.f.

INCLUDING SEDIMENT POND 2300
-7140 ft³

VICINTY MAP K-14-Z

ALBUQUERQUE CODE ADMIN.
APR 18 1979
U.B.C. PLAN CHECK SECTION

Architect

Engineer

A.N.I. OFFICE BUILDING FOR THE FEDERAL BUREAU OF INVESTIGATION

PROJECT 78-29

SANDIA A JOINT VENTURE
WILLIAM H. SPENCER TRUSTEE

THE BURNS/PETERS GROUP
Architects & Planners
8000 Pennsylvania Circle NE
Albuquerque, New Mexico 87110 505 265 3645

Date MAR 79

GRADING - SITE PLAN DRAINAGE STUDY

Sheet No. 2

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1 PLAN

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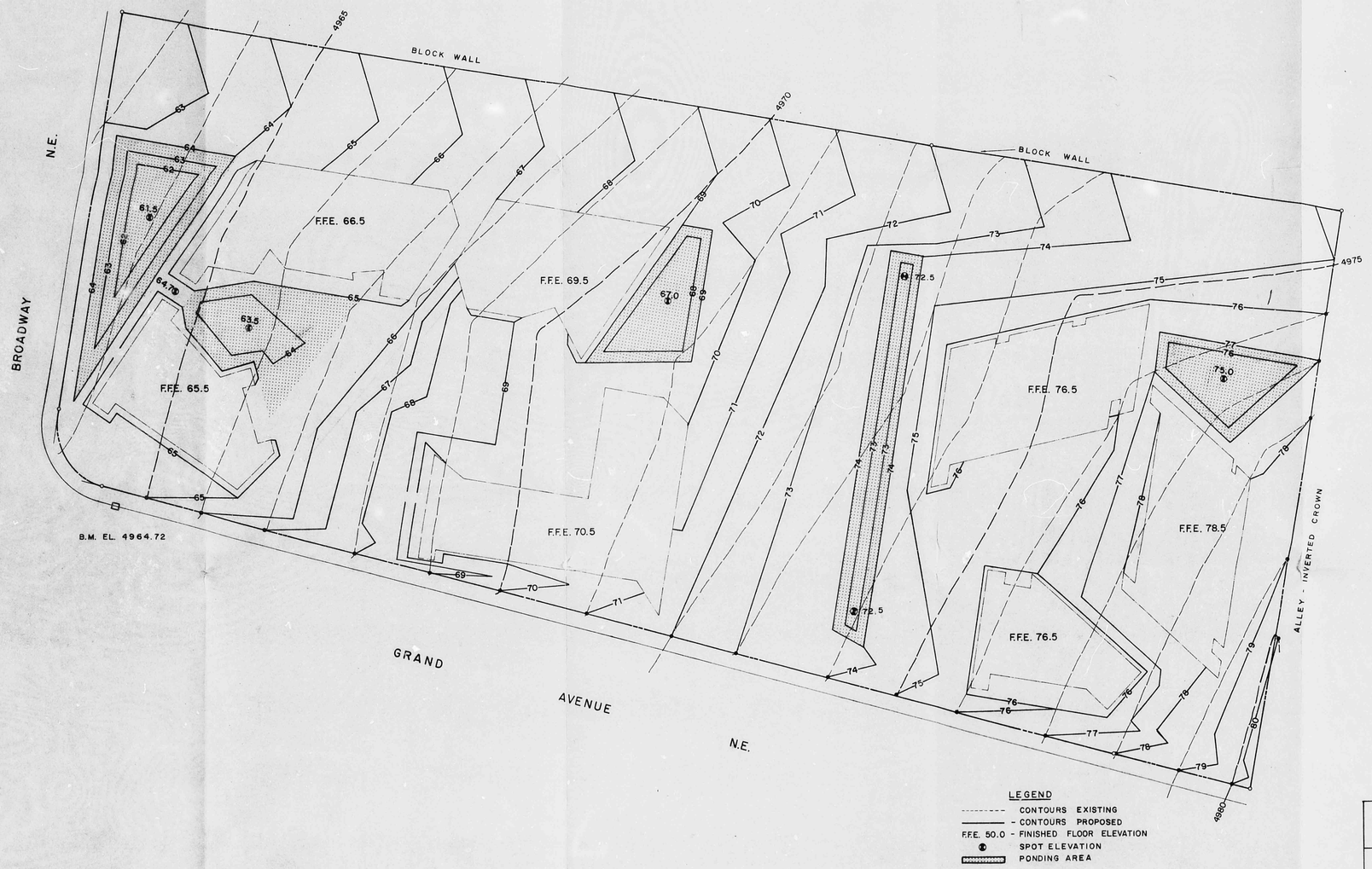

FIGURE
3

EXISTING TOPOGRAPHY
AND
GRADING PLAN

DATE	JOB NUMBER	DESIGNED T.M. DRAWN A.B.M. CHECKED T.M.	SH. OF
11/77	07-37		

Goldberg · Mann & Associates
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7339 Wisconsin N.E. Albuquerque, New Mexico 87110

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