HYDROLOGY

K17/D4

4 PLANS
1 of 2

K17/D4

4 Plans

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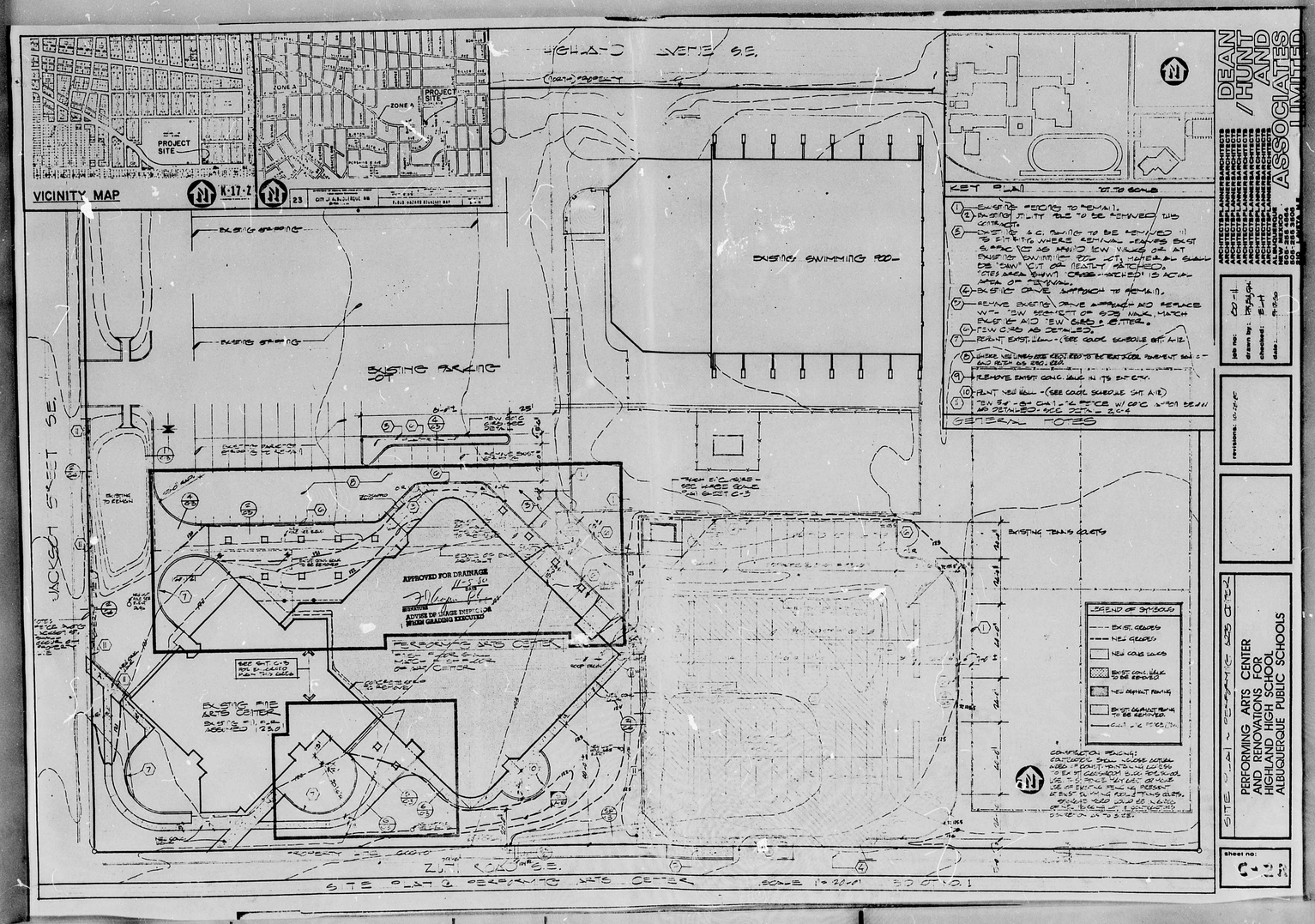

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drawn by: R.S.
checked: B.H.
date: 9-15-80

revisions: 10-21-80

SITE PLAN & PERFORMING ARTS CTR

PERFORMING ARTS CENTER
AND RENOVATIONS FOR
HIGHLAND HIGH SCHOOL
ALBUQUERQUE PUBLIC SCHOOLS

sheet no: C-1

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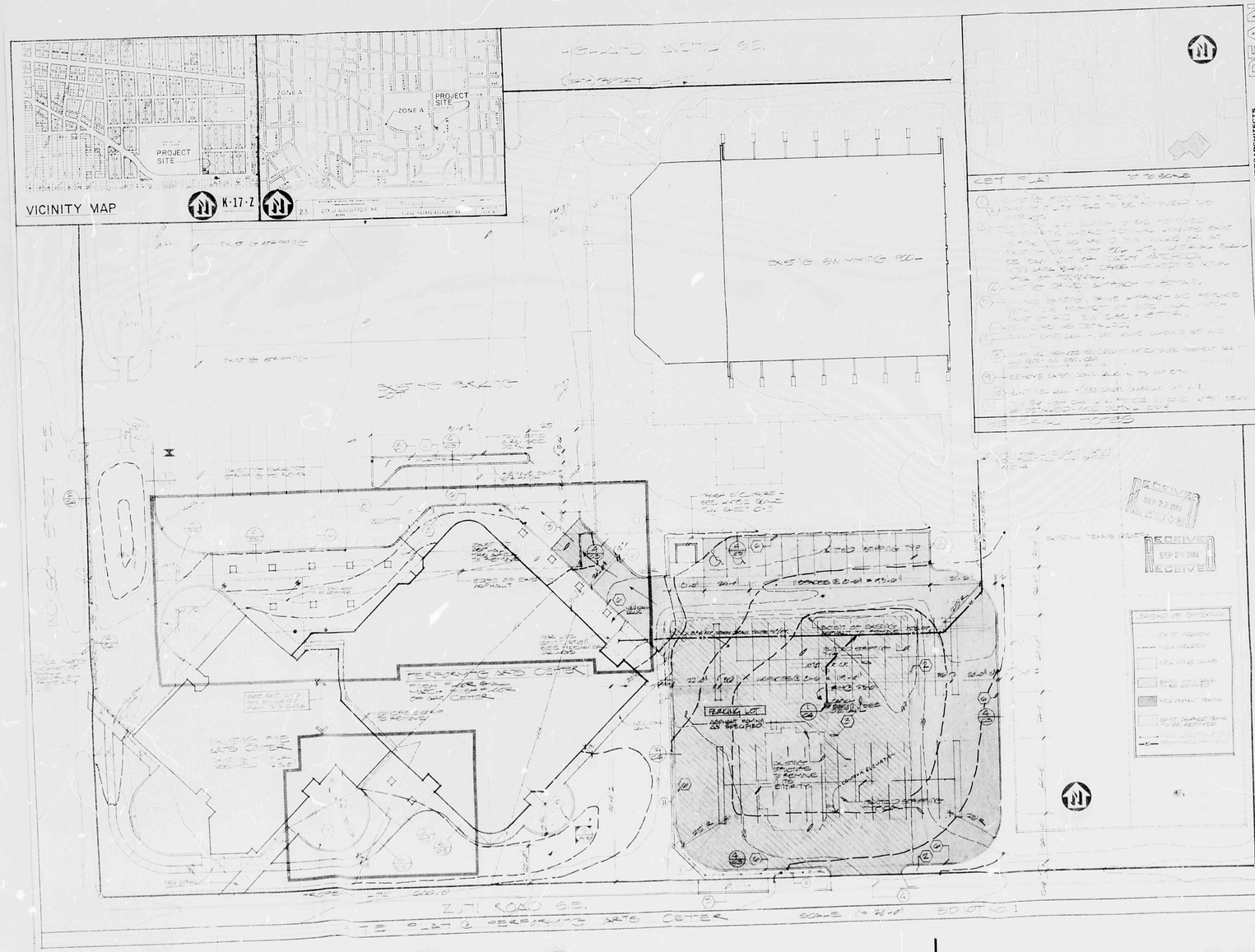
VICINITY MAP
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PROJECT SITE
ZONE A
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ZONE A
EXISTING PARKING
EXISTING ARTS
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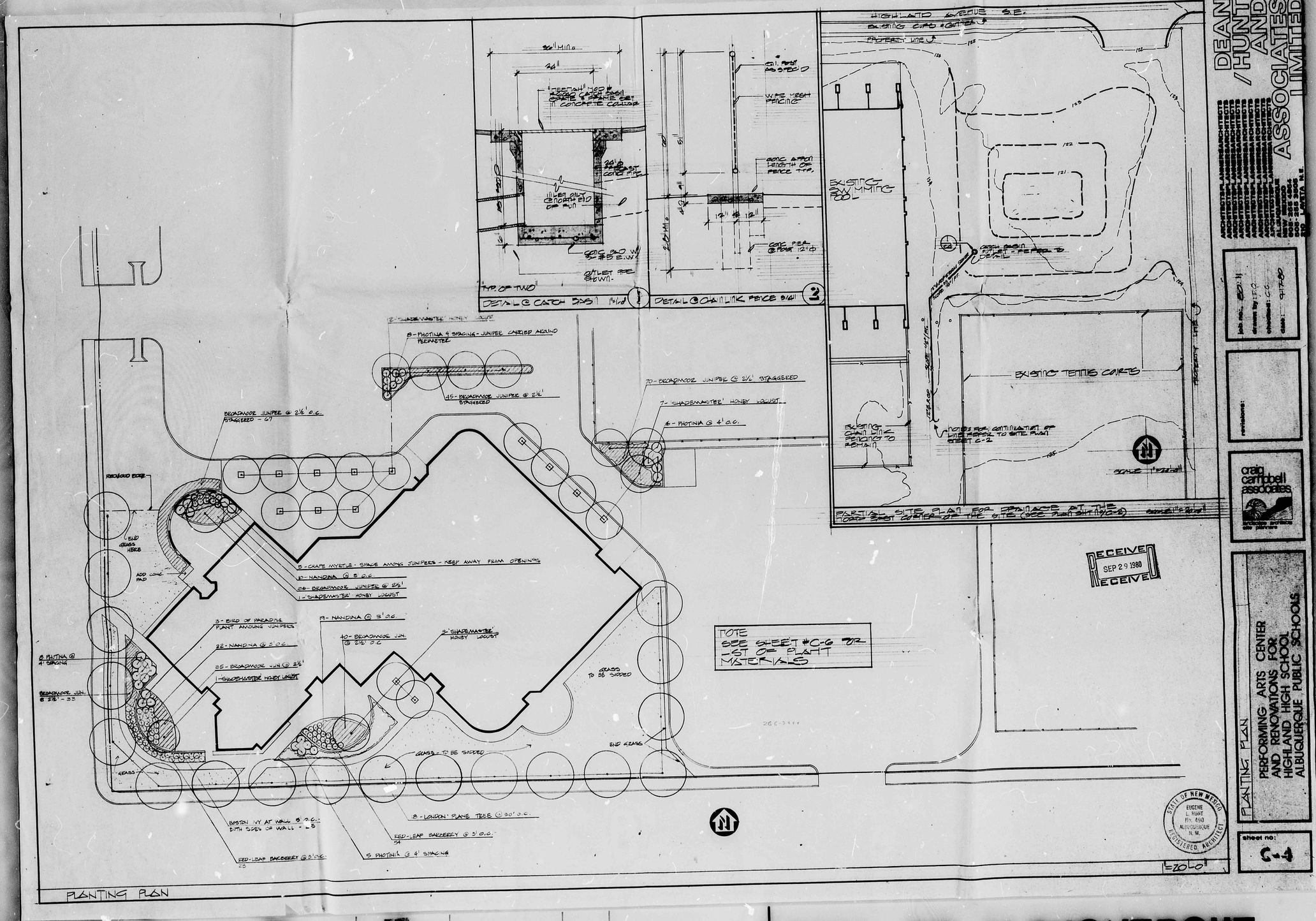

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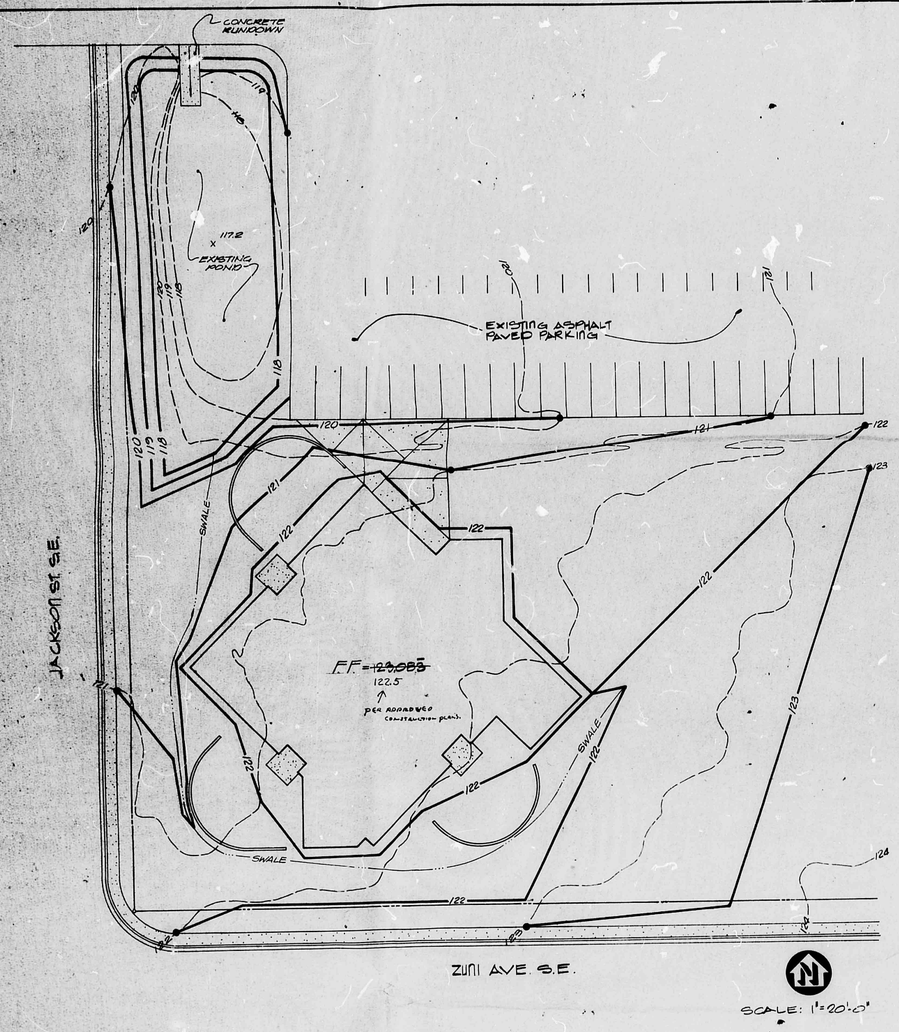
HYDROLOGY K17/D4 4 PLANS

2 of 2



GRADING PLAN

This copy submitted by Tom Mann & Associates at my request. Received 10-10-80 [illegible]

DRAINAGE PLAN

The following items concerning the Highland High School Arts Center are contained hereon:

1. Vicinity map
2. Flood hazard map
3. Grading plan
4. Calculations

The proposed building is located on the northeast corner of the intersection of Zuni Avenue S.E. and Jackson Street S.E. The building is the first phase of an arts center/auditorium complex.

The building is located south and west of the existing swimming pool, south of an existing parking lot, and west of the existing tennis courts. The land slopes from east to west at approximately 1.5 percent. The project site is higher than both the bordering streets and the existing parking lot. Offsite runoff can enter the site from the east. The offsite flows would come from the tennis court with approximately a 300-foot landscape barrier between the tennis courts and the new building. Any runoff that would enter the project site will be conveyed around the building and into the parking area. The project: (1) does not lie in a flood plain, (2) does not lie adjacent to natural or artificial water course, (3) has no drainage easements on the property.

The site will be graded to convey flows into the area that is currently used for ponding. The existing pond will be enlarged to handle the additional capacity required. The grading plan shows: (1) existing contours at 1'0" intervals, (2) proposed grades indicated by spot elevations and contours, (3) swales, (4) continuity between proposed and existing elevations, (5) the sidewalks are adjacent to the curb, (6) that all runoff will be conveyed into ponds before leaving the site and (7) that retaining walls will not be required.

The runoff from the additional impervious area will be retained in a pond adjacent to the west property line. The pond will retain in excess of 100 percent of the runoff that results from a 100 year frequency storm. The pond is not greater than 18 inches deep and therefore fencing is not required.

CALCULATIONS

Increased Impervious Area = 9,960 s.f.

Required Pond Volume = 9,960 x 0.1 = 996 c.f.

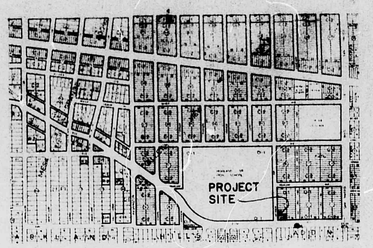
Original Pond Volume =

$$\left(\frac{11.5 + 7.4}{2}\right) \times 1 \times 400 + \frac{7.4}{2} \times 0.8 \times 400 = 4{,}964 \text{ c.f.}$$

Total Required Volume = 5,960 c.f.

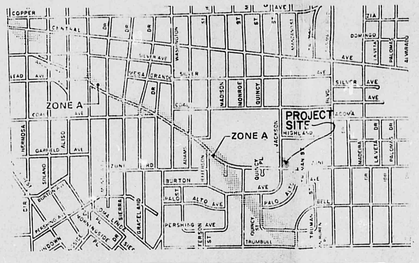
Pond Volume =

$$\left(\frac{17.4 + 13.1}{2}\right) \times 1 \times 400 = 6{,}100 \text{ c.f.}$$



VICINITY MAP

K-17-Z



Thomas L. Mann

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revisions:

THE STATE OF NEW MEXICO
REGISTERED ARCHITECT

G.E. GRADING PLAN

AN ART CENTER
FOR
HIGHLAND HIGH SCHOOL
ALBUQUERQUE PUBLIC SCHOOLS

sheet no: C-2

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