

DRAINAGE PLAN

The following items concerning the Vaughn Company Office Building Drainage Plan are contained hereon:

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

The proposed improvements consist of an office building with associated paved parking which is located on Lot 6, as shown by the Vicinity Map. At present, the site is undeveloped.

The site does not lie within a flood hazard zone, as shown by the Flood Hazard Map. The Flood Hazard Map was taken from the "City of Albuquerque, New Mexico, Bernalillo County Flood Hazard Boundary Map" prepared by the U. S. Department of H. U. D., Federal Insurance Program. An existing wall prevents flows from entering the site from the east, and flows created on the parcel to the north run parallel to the site down to Juan Tabo Boulevard. There is an existing drainage channel on the south side of the site.

The Grading Plan shows (1) existing grades indicated by spot elevations and contours at 1'-0" intervals, (2) proposed grades indicated by spot elevations and contours at 1'-0" intervals, (3) continuity between proposed and existing elevations and (4) the limit and character of proposed improvements. The basic drainage concept is to allow stormwater that is created onsite to flow in a controlled manner westward to Juan Tabo Boulevard. From this point flows will stay in the north gutterline of Juan Tabo Boulevard and flow east to an inlet into the existing channel.

The calculations which appear below analyze the proposed development utilizing the rational formula. The calculations show the existing stormwater flows created onsite in both the existing and proposed states.

CALCULATIONS

EXISTING STORMWATER FLOWS

Area = 0.59 act
 i = 5.4 inches
 C = 0.40
 $Q_{100} = CiA$
 = (0.40)(5.4)(0.59)
 = 1.27 cfs

DEVELOPED STORMWATER FLOWS

Total Area: 0.59 act
 Pervious Area: 0.07 act
 Impervious Area: 0.52 act
 $Composite\ "C" = \frac{0.52}{0.59}(0.95) + \frac{0.07}{0.59}(0.40)$
 = 0.90
 $Q_{100} = CiA$
 = (0.90)(5.4)(0.59)
 = 2.87 cfs

LEGEND

- 20--- EXISTING CONTOUR
- - -20- - PROPOSED CONTOUR
- ⊕ EXISTING SPOT ELEVATION
- ⊕ PROPOSED SPOT ELEVATION
- ▭ PROPOSED LANDSCAPE
- ▨ ASPHALT CONCRETE PAVING

DESCRIPTION

LOT NUMBER SIX (6) OF INDIAN HILLS ADDITION BEING A REPLAT OF TRACT "A", FILED JUNE 3, 1969

ADDRESS

1804 JUAN TABO BLVD NE ALBUQUERQUE, NEW MEXICO

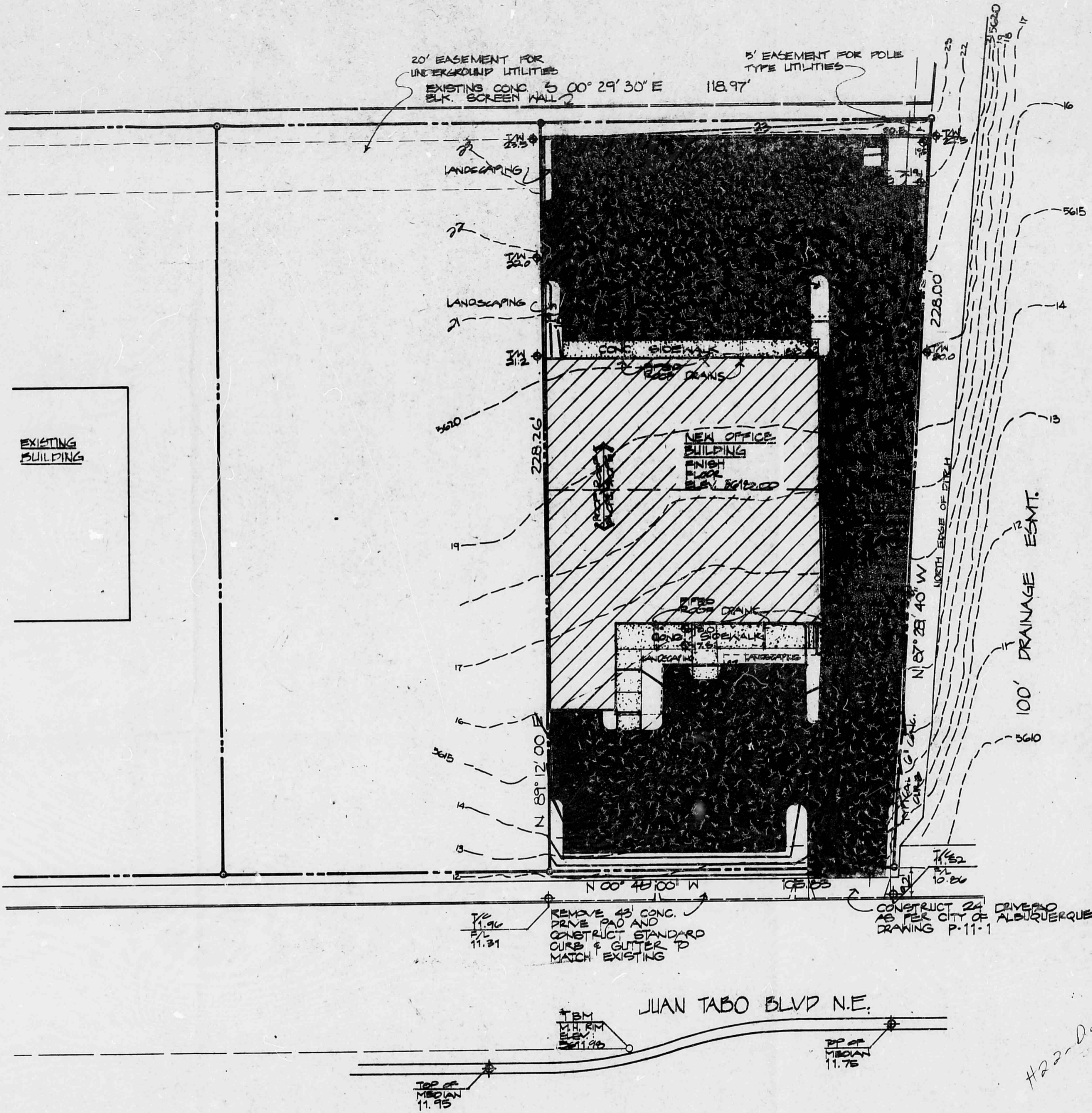
SOILS

EMBUDD GRAVELLY FINE SANDY LOAM.
 HYDROLOGICAL SOIL GROUP B

REFERENCE POINT

ELEVATIONS REFERENCED TO C.A.N.M. MONUMENT 10 J22A

RECEIVED
 SEP 17 1982
 ENGINEERING



NOTE:
 SEE SHEET C-2 FOR BUILDING LAYOUT DIMENSIONS AND SITE DETAILS



GRADING PLAN / DRAINAGE PLAN

1" = 20'

Sandy Eeds AIA Architect

510 SECOND ST. NW
 SUITE 204
 ALBUQUERQUE NM
 87102 505 842 1511

ARCHITECT



ENGINEER



SHEET TITLE
GRADING AND DRAINAGE PLAN

REVISIONS

DATE 20 AUG 82

PROJECT NO. 8115

SHEET NO.

C 1