HYDROLOGY

J10/D2b
1 PLAN

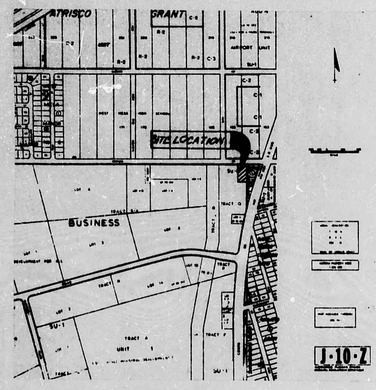
J10/D2B

1 Plan

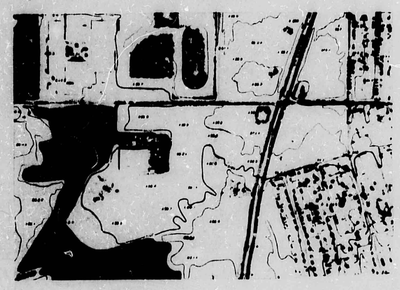
CITY OF ALBUQUERQUE

C

D



VICINITY MAP



FLOOD INSURANCE MAP

Drainage Plan

The proposed improvements, as shown on the Vicinity Map, are located on the south side of Fortuna Road 160 feet west of Coors Blvd. At present the site is undeveloped. The planned use for the parcel is for additional parking for the Blakes Lota Burger. Blakes Lota Burger lies on the existing parcel due east. As shown on the Flood Insurance Map, the site lies out of the Flood Hazard Zone. There is not a comprehensive storm drainage management plan for the West Mesa as of this time, therefore, the parcel must contain 100% of the within its boundaries. The land to the south and west is lower in elevation, while Fortuna Road prevents any water from entering from the north. The existing development on the east is at the same grade or slightly lower than the subject parcel.

All the waters from the site will surface flow to a landscaped area adjacent the Fortuna R.O.W. The landscaped area will be a granular material and at the bottom of the depr[illegible]

The calculations which appear below analyze the existing and developed conditions for the 100 year, 6 hour rainfall event. The Rational Method has been used for this analysis in accordance with the City of Albuquerque Development Process Manual, Volume II. As shown, the proposed improvements will result in an increase in runoff, however, this runoff will not be allowed to leave the site.

Calculations

Ground Cover Information

From SCS Bernalillo County Soil Survey
Hydrologic Soil Group B

Rational Method

Discharge Q=CIA
R_6 = 2.2 inches (DPM Plate 22.2D-1)
A = Area (100X267) ÷ 43560=.6129 ac
I = R_6 (6.84) $Tc^{-0.51}$ = 4.65 inches/hour
Tc = 10 minutes (minimum)
C = Varies
Volume V= CR, A (.0833)
all variables listed above.

Existing Conditions

A_T = Total Area = 26,700 s.f. = 0.6129 Ac
Aimp = Imprevious Area = 0 = 0%
c= 0.34 (DPM Plate 22.2D-1)
Q100 = 0.34 (4.65)(0.6129)= .9690 cfs
V100 = (0.34)(2.2)(26,700)(.0833) = 1663.6 cf.

Developed Condition

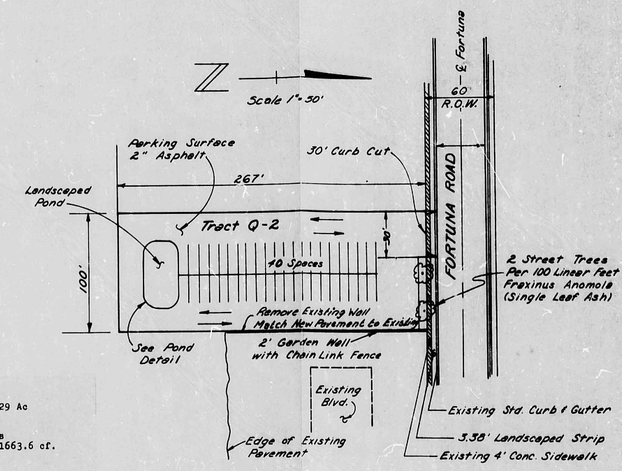
A_T = 26,700 sf
Aimp = 24,500 sf = 92%
C = 0.88 (DPM Plate 22.2 C-1)
Q100 = 0.88(4.65)(0.6129) = 2.5 cfs
V100 = 0.88(2.2)(26,700)(.0833) = 4305 cf

Pond Volume

Volume Required= 4,305 cf.
VPOND *Provided* = 60'ft. X 30 ft. X 3 ft. = 5400 cf.

Soil Conditions

The type of soil existing conditions as shown in the SCS Bernalillo County Soil Survey Maps is Madurez-Wink Association. The Madurez series consist of 55% Madurez fine sandy loam, 25% Wink fine Sandy loam, and 20% Bluepoint Pajarito, and Latene soils.



CONCEPTUAL SITE DEVELOPMENT & LANDSCAPING PLAN
SCALE: 1"=50'

Land Use

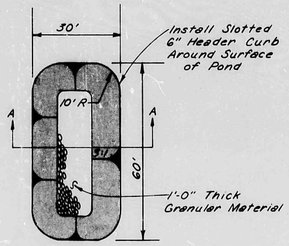
The site located on zone atlas sheet J-10 is currently zoned SU-1. The intended use is for additional parking for Blakes Lota Burger. As such there will be no building structures located on the site. Ingress and egress will be through the existing parking lot and one curb cut on Fortuna located on the northwest corner of the lot. The entire area less the ponding and landscape area will be paved with a 2" asphaltic base material.

On site ponding will be required as outlined under the drainage plan and will consist of a landscaped area with joint ponding use. Since flows will not leave the site offsite erosion will not occur and appropriate soil erosion measures omitted.

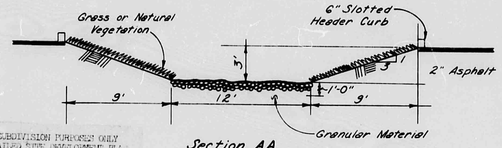
Master Plan

The Atrisco Business Park master plan area calls for commercial use application. Offstreet parking is permissible under all commercial zoning and complies with the master plan. In addition the plan calls for the installation of street trees and landscaping within the Fortuna right-of-way. Street trees need to be planted at a rate of 2 per 100 linear feet and are indicated on the landscape plan. The ponding area will consist of landscaping with granular material located in the bottom.

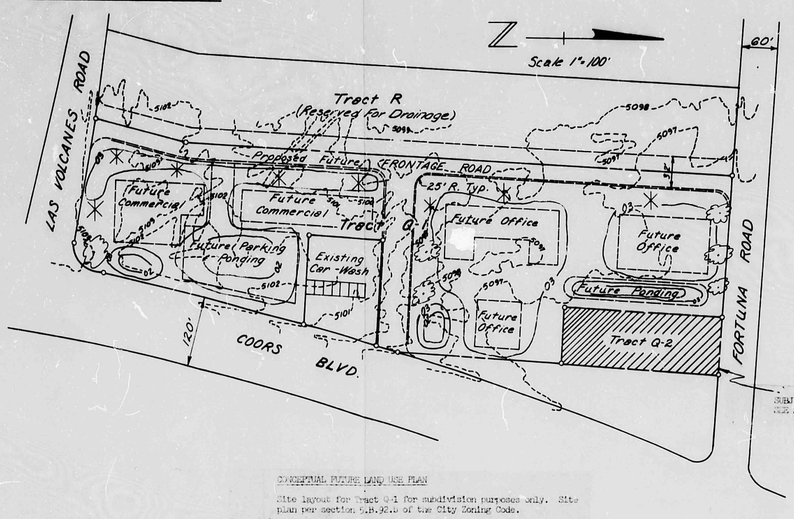
The Coors Corridor Study impacts the site only by traffic limitation. The access to Fortuna has been located as far from Coors as possible. Lack of access to Fortuna would land lock the parcel so the curb cuts have been minimized to allow only one cut.



Pond Detail
Scale: 1"=20'



Section AA
No Scale



SUBJECT PARCEL FOR SUBDIVISION PURPOSES ONLY
SEE SHEET 2 FOR DETAILED SITE DEVELOPMENT PLAN

CONCEPTUAL FUTURE LAND USE PLAN

Site layout for Tract Q-1 for subdivision purposes only. Site plan per section 5.B.9.b of the City Zoning Code.

RECEIVED
JAN 07 1985
HYDROLOGY SECTION

NO.	DATE	REMARKS	BY

REVISIONS

DESIGNED BY — DATE
DRAWN BY Albuquerque Surveying Co. Inc. DATE 10-19-84
CHECKED BY — DATE

ENGINEER'S SEAL

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE

BENCH MARKS

ACS BRASS CAP, 16-J11
Station is located in the North-bound left lane on Coors Road 157.0 feet south from centerline on Fortuna Road
Elev. = 5096.674 feet

AS BUILT INFORMATION

CONTRACTOR — DATE
WORK STAKED BY — DATE
FIELD INSPECTION BY — DATE
ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO.

TITLE: DRAINAGE PLAN
ATRISCO BUSINESS PARK, TRACT Q-2

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

DRAWING NO.	MAP NO.	SHEET	OF
	J-10	1	2

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

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