CITY OF ALBUJUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

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PRE-DESIGN CONFERENCE RECAP

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SUBJECT: 1600 UNIO	redy.
EBAL DESCRIP. 1 Lot 4	of Ballet
APP	PROVAL REQUESTED
PRELIMINARY PLAT	FINAL PLAT
SITE DEVELOPMENT PLAN	BUILDING PERMIT
	ROUGH GRADING
WHO:	REPRESENTING
TTENDANCE: G. TILL	
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City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

August 19, 1985

Mr. Gary Tibjlas Denney-Gross & Associates 2400 Comanche NE Albuquerque, NM 87110

REF: DRAINAGE PLAN FOR OFFICE COMPLEX (J15-D24) RECEIVED JULY 16, 1985 Deam Mr. Tibljas:

- I have reviewed the referenced plan and forward the following comments:
- 1. Please show the north arrow on your drawing.
- Off-site flows must be accepted and conveyed through your site. Future plans of the upstream owners are not guaranteed.
- Flows from the site are not allowed to cross City sidewalks. Please redirect these flows.
- Please address the capacity of the existing storm inlet on Indian School.

If you should have any questions, please feel free to call me at 766-5040.

Sincerely,

Carlos A. Montoya

City/County Flood Plain Admin.

CAM:mrk

MUNICIPAL DEVELOPMENT DEPARTMENT

C. Dwayns Shoppard, P.E., City Engineer

ENGINEERING DIVISION

Telephone (505) 766-7467

AN EQUAL OPPORTUNITY EMPLOYER =

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Office Complex 7	
LEGAL DESCRIPTION: Lot 4 Lands of Ballut Ab	yad Temple
CITY ADDRESS: 1600 University Blve. N.E.	
ENGINEERING FIRM: DENNEY-GROSS & ASSOCIATES	CONTACT: Gar/ Tibljas P.E.
ADDRESS: 2400 Comanche, N.E.	PHONE: 884-0696
OWNER: Bill Carpenter	
ADDRESS: 509 Roma NW	PHONE: 243-1336
ARCHITECT: Knight Seavey Design	CONTACT:Knight Seavey
ADDRESS: P.O. Box 14887 Sta. G	PHONE: 299-5900
SURVEYOR: DENNEY-GROSS & ASSOCIATES	CONTACT: Steve Youtsey
ADDRESS: 2400 Comanche N.E.	PHONE: 884-0696
CONTRACTOR: N/A	CONTACT:
	PHONE:
PRE-DESIGN MEETING: AUG 2 8 1985 YES OO COPY OF CONFERENCE RECAP SHEET PROVIDED	DRB No EPC No PROJ. No
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
X DRAINAGE REPORT DRAINAGE PLAN CONCEPTUAL GRADING & DRAINAGE PLAN GRADING PLAN EROSION CONTROL PLAN ENGINEER'S CERTIFICATION	SKETCH PLAT APPROVAL PRELIMINARY PLAT APPROVAL SITE DEVELOPMENT PLAN APPROVAL FINAL PLAT APPROVAL BUILDING PERMIT APPROVAL FOUNDATION PERMIT APPROVAL CERTIFICATE OF OCCUPANCY APPROVAL ROUGH GRADING PERMIT APPROVAL GRADING/PAVING PERMIT APPROVAL OTHER (SPECIFY)



DENNEY-GROSS & ASSOCIATES, INC.

CONSULTING ENGINEERS 2400 COMANCHE ROAD, N.E. ALBUGERGUE, NEW MEXICO 87107 (8.55) 884-0898

August 26, 1985

Mr. Carlos Montoya City of Albuquerque Hydrology Department 123 Central NW Albuquerque, NM 87104 AUG 2 8 1985
HYDROLOGY SECTION

Re: Office Complex DTM Job No. 828.12 J15-D24

Dear Mr. Montoya:

Enclosed for your approval is one copy of the Revised Grading and Drainage Plan for the above referenced project.

The comments of your August 19, 1985, letter have been addressed as follows:

- 1. The north arrow has been added.
- The header curb has been eliminated and offsite flows will be accepted and conveyed through the site.
- The roof drain will be relocated such that minimal flows will cross the public sidewalk on University Blvd. Please note that the sidewalks along Indian School Road are private and are only intended for entrance into the complex.
- The capacity of the Double "C" inlet has been addressed and is included on the plan.

If you have any further questions, please feel free to call.

Very truly yours,

Gary W. Tiblias, P.E.

GWT/klo Enclosure



City of Albuquerque P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

August 29, 1985

. Mr. Joe Jones Denney-Gross & Associates 2400 Comanche NE Albuquerque, NM 87107

REF: OFFICE COMPLEX (J15-D24) RECEIVED AUGUST 28, 1985

Dear Mr. Jones:

The referenced plan dated $\,$ August 27, 1985 is approved for Building Permit sign-off.

Please attach a copy of this approved plan to both sets of construction plans prior to sign-off by Hydrology.

If you have any questions or comments regarding this project, please call me at 766-7644.

Carlos A. Montoya, PE City/County Flood Plain Admin.

CAM:mrk

MUNICIPAL DEVELOPMENT DEPARTMENT

C. Dwayne Sheppard, P.E., City Engineer

ENGINEERING DIVISION

Telephone (505) 766-7467

AN EQUAL OPPORTUNITY EMPLOYER

I, <u>Gary W. Tibljas</u>, hereby certify that the enclosed documents and drawings were prepared under my supervision and are true and correct to the best of my knowledge and belief.

New Maxica Professional Engineer No. 8117



DRAINAGE INFORMATION SHEET

LEGAL DESCRIPTION: <u>Lot 4 Lands of Bailut Ab</u> CITY ADDRESS: <u>1600 University Blve. N.E.</u>	
ADDRESS: 2400 Comanche, N.E. OWNER: Bill Carpenter ADDRESS: 509 Roma NW ARCHITECT: Knight Seavey Design ADDRESS: P.O. Box 14887 Sta. G SURVEYOR: DENNEY-GROSS & ASSOCIATES ADDRESS: 2400 Comanche N.E. CONTRACTOR: N/A ADDRESS:	PHONE: 884-0696 CONTACT: Bill Carpenter PHONE: 243-1336 CONTACT: Knight Seavey PHONE: 299-5900 CONTACT: Steve Youtsey PHONE: 884-0696 CONTACT:
YES NO COPY OF CONFERENCE RECAP SHEET PROVIDED	DRB No. 84 822 1215/84 EPC No PROJ. No
TYPE OF SUBMITTAL: X DRAINAGE REPORT DRAINA DRAINAGE PLAN CONCEPTUAL GRADING & DRAINAGE PLAN GRADING PLAN EROSION CONTROL PLAN ENGINEER'S CERTIFICATION	CHECK TYPE OF APPROVAL SOUGHT: SKETCH PLAT APPROVAL PRELIMINARY PLAT APPROVAL SITE DEVELOPMENT PLAN APPROVAL FINAL PLAT APPROVAL BUILDING PERMIT APPROVAL FOUNDATION PERMIT APPROVAL CERTIFICATE OF OCCUPANCY APPROVAL ROUGH GRADING PERMIT APPROVAL GRADING/PAVING PERMIT APPROVAL OTHER (SPECIFY

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

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П	PRE-DESIGN CONFERENCE	E RECAP		
-	HYDROLOGY SECTION PROJECT NO.: 15	DATE: 6-7-85		
_	PLANNING DIVISION NOS. EPC:	DRB:		
	SUBJECT: 1600 UNiversity.			
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-	PRELIMINARY PLAT	FINAL PLAT		
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	ing Permit sign-off.			
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	FINDINGS: DD RAINAGE PLAN	DER DPM (2)		
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_		PAIN SYSTEM IN STREET		
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	The undersigned agrees that the above fin	dings are summarized accurately		
_	and are only subject to change if further in are not reasonable or that they are based on	vestigation reveals that they		
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	SIGNED: (SIGNED:			
	TITLE: TITLE: _			
	DATE: 6-7-FC DATE:			
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_	**NOTE** PLEASE PROVIDE A COPY OF THIS RECO	WITH THE DUNINAGE SOUTHING		

STORMWATER MANAGEMENT REPORT OFFICE COMPLEX AT 1600 UNIVERSITY BLVD. N.E.

PURPOSE:

The purpose of this report is to determine an economical and effective stormwater management plan for subject site.

GENERAL:

The development consists of 0.799 acres and is located at the northeast corner of University Blvd. N.E. and Indian School Rd. N.E. (See exhibit I). Fresently the site slopes to the southwest and is not located within a flood plain (See Exhibit II). The soil on site is of the hydrologic soil group type A (cu, cut and fill land, See exhibit III).

Per the findings of the hydrology pre-design conference (report attached). A free discharge solution will be pursued with all runoff being directed to an existing stormsewer inlet at the property's southern most tip via overland flow.

DRAINAGE:

The site will be graded such that runoff from 60% of the site will be routed through the parking area and discarded onto University Blvd. at the curb cut. From this point the flow will travel via curb & gutter to the existing catch basin at the site's southern tip. The remaining 40% of the site shall discharge directly to University Blvd. and Indian School Rd. as directed by the finished contours. These flows too will be delivered to the catch basin via each street's respective curb & gutter system.

Extraneous flows from approximately 2.5 acres located immediately north of the site will be intercepted at the northern border by a header curb. These flows will then, in turn, be directed west to University Blvd and transported to the catch basin

1600 UNIVERSITY BLVD. N.E.

at University Blvd and Indian School Rd.

Currently these flows are directed through the project site to the catch basin. Owners of this property to the north are planning to construct a planter box strip along the site's northern boundary which will divert these extraneous flows to University Blvd in the same manner as the aforementioned header curb.

There exists a 0.25 acre strip of right-of-way on Indian School Road's northside that is being incorporated into the projects site and landscaping plan. As indicated, this strip will be completely sodded with a meandering sidewalk strip facilitating pedestrain access to the office complex. arrangements have been made with State Highway Department to utilize this strip in this manner.

CALCULATIONS:

UNDEVELOPED BUNDEE

PROJECT SITE A = 0.799 ACRES (34,804 SF) RIGHT OF WAY STRIP A = 0.25 ACRES (10,890 SF)

Tc = (0.0078) (L / S

0.77 0.385 Tc = (0.0078) (250 /0.0149) =

2.76 MINUTES USE 10.0 MINUTES

0% IMPERVIOUS SOIL TYPE A

C = 0.16

I = (2.2)(6.84)(10) = 4.65 in/hr

Q = CIA > (.016)(4.65)(1.03) = 0.78 cfs

1600 UNIVERSITY BLVD. N.E.

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DEVELOPED RUNOFF
 AREA A
 A = 0.48 \ AC \ (20.882 \ SF)
0.77 0.385
=(0.0078)(550 /0.015 ) = 5.06 MIN USE IN 10 MIN.
USE 100 MINUTES
TOTAL AREA = 20,882 SF (0.48 AC)
PAVED AREA = 17,720 SF (0.41 AC)
PERVIOUS AREA = 3162 SF (0.07 AC)
17,720/20,882 = 85% IMPERVIOUS
C=0.70
-0.51
I =(2.2)(6.84)(10) = 4.65 IN/HR
Q = CIA > (0.70) (4.65) (0.48) = 1.56 CFS
AREA B
A = 0.57 AC (24,829 SF) INCLUDES RIGHT OF WAY STRIP
Tc =(0.0078)(L  / S )= 0.0078
0.77 0.385
(0.0078)(270 /0.034 ) = 2.14 MIN USE 10.0 MIN.
TOTAL AREA = 24,829 SF (0.57 ACRES)
PAVED AREA = 1,800 SF (0.04 ACRES)
PERVIOUS AREA = 23,029 SF (0.53 ACRES)
1800 / 24,829 = 7% IMPERVIOUS
C = 0.19
I =(2.2)(6.84) (10) = 4.65 IN/HR
0 = CIA > (0.19)(4.65)(0.57) = 0.50 CFS
1600 UNIVERSITY BLVD. N.E.
                                                           3
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OFFSITE EXTRANEOUS FLOWS

A = 2.5 AC (108.900 SF)

0.77 0.385 Tc =(0.0078)(L /S

0.770 0.385 =(0.0078)(300 /0.006) = 4.5 MIN. USE 10.0 MIN.

TOTAL AREA = 2.5 ACRES (108,900 SF) PAVED AREA = 1.9 ACRES (82,764 SF) PERVIOUS AREA = 0.6 ACRES (26,076 SF)

82,764/108,900 = 76% IMPERVIOUS

C = 0.61

-0.51 I = (2.2)(6.84)(10)= 4.65 IN/HR

Q = CIA = 0.61 (4.65)(2.5) = 7.1 CFS

HEADER CURB CAPACITY

Q =(1.486/n)(R)(S)(A)

n = 0.016 (ASPHALT)

A = 20.75 SF

P = 83.5 FT R = A/P = 0.25

S = 0.012

Q = (1.486/0.016) (0.25)(0.012)(20.75) = 83.8 CFS > 7.1 CFS OK

CONCLUSION:

DEVELOPED RUNOFF CONDITIONS WILL DELIVER 2.06 CFS OF RUNOFF TO THE CATCH BASIN VERSUS 0.78 CFS OF RUNOFF WHICH CURRENTLY IS DIRECTED TO THE CATCH BASIN. DUE TO THE EXTREMELY SMALL TIMES OF CONCENTRATION ASSOCIATED WITH THESE DEVELOPED FLOWS, THE EXISTING CATCH BASIN AND CORRESPONDING STORM SEWER WILL ABSORB THESE FLOWS BEFORE PEAK FLOW GUANTITIES ARIVE AT THE CATCH BASIN FROM THE OUTER REACHES OF THE WATERSHED IN WHICH THE PROJECT SITE IS OUTER REACHES OF THE WATERSHED IN WHICH THE PROJECT SITE IS LOCATED.