



November 27, 1998

John Andrews  
Andrews, Asberry , and Roberts  
149 Jackson St. NE  
Albuquerque, New Mexico 87108

RE: ENGINEER CERTIFICATION FOR ESTHETICS DENTAL ARTS BUILDING  
(F21-D69) CERTIFICATION STATEMENT DATED 10/24/98 & 11/18/98

Dear Mr. Andrews:

Based on the information provided on your November 18, 1998 submittal, Engineer Certification for the above referenced site is acceptable.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia  
File ✓

Sincerely

Bernie J. Montoya CE  
Associate Engineer

Good for You, Albuquerque!



## DRAINAGE INFORMATION SHEET

PROJECT TITLE: Esthetic Dental Arts Building

ZONE ATLAS/DRNG.FILE #: F21-D69

DRB #: 96-421

EPC #: V96-88

WORK ORDER #3 \_\_\_\_\_

LEGAL DESCRIPTION: Tract A Fichtner Tract Filed Oct 31, 1996, Plat Book 96C

CITY ADDRESS: 4630 Eubank Ne Albuquerque, NM

ENGINEERING FIRM: AAR-The Larkin Group Inc.

CONTACT: John Andrews

ADDRESS: 8500 Menaul Ne Albuquerque, NM 87112

PHONE: (505) 232-2158

OWNER: Gary Fichtner

CONTACT: Gary Fichtner

ADDRESS: 8400 Osuna Ne

PHONE: (505) 293-6373

ARCHITECT: Dean/Krueger and Assoc. Inc.

CONTACT: Keith Minnie

ADDRESS: 204 Madeira Ne A.lbuquerque, Ne 87108

PHONE: (505) 265-6676

SURVEYOR: AAR-The Larkin Group Inc.

CONTACT: Gayle Jewel

ADDRESS: 8500 Menaul Ne Albuquerque, NM 87112

PHONE: (505) 232-2158

CONTRACTOR: Gilbert & Assoc.

CONTACT: Bart Gilbert

ADDRESS: Albuquerque

PHONE: (505) 259-4909

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☒ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☒ ENGINEER'S CERTIFICATION
- ☐ OTHER
- \_\_\_\_\_

PRE-DESIGN MEETING:

- ☒ YES
- ☐ NO
- ☐ COPY PROVIDED

DATE SUBMITTED: 11-18-1998

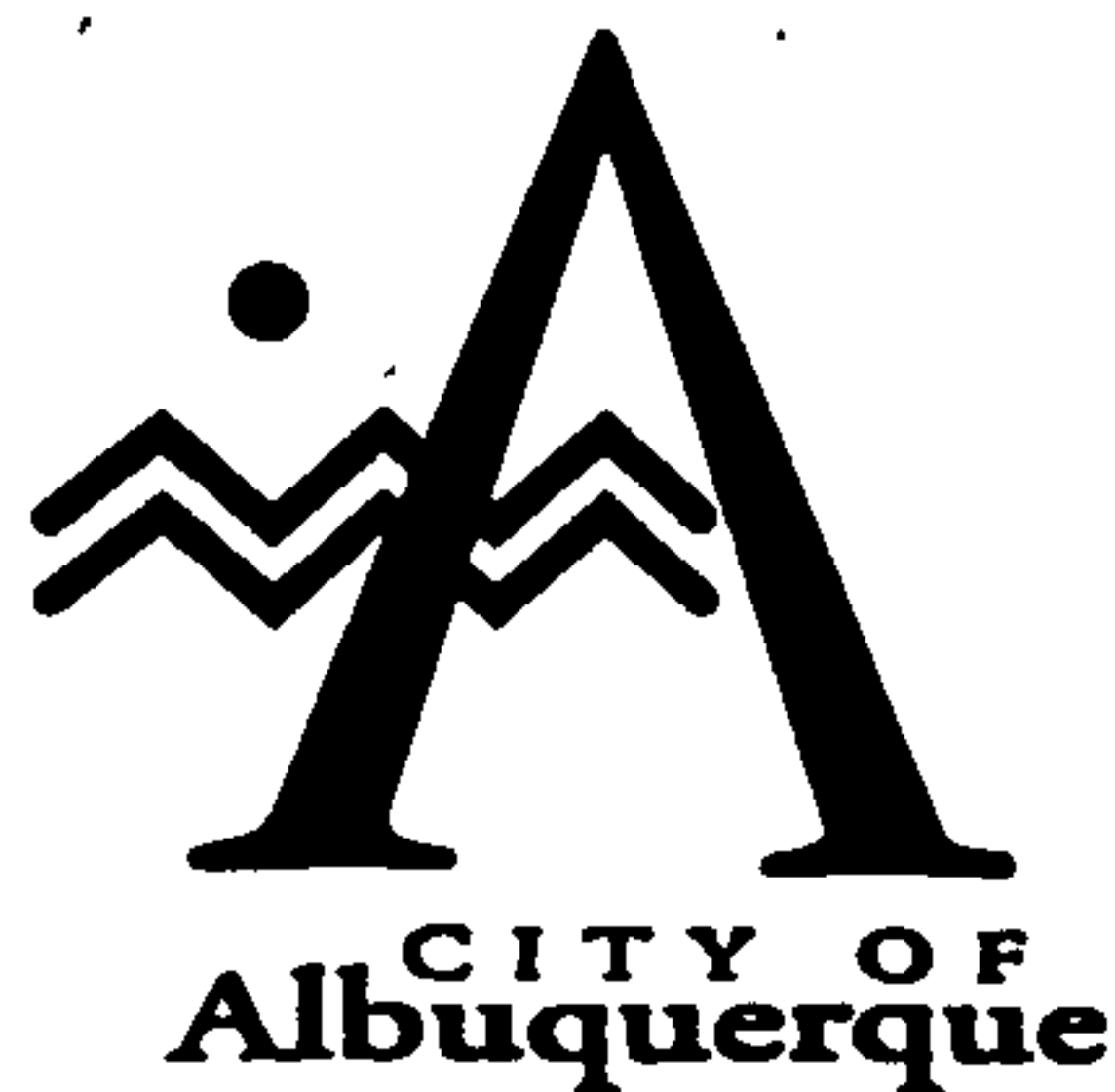
BY: Scott M. Beeson

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ BUILDING PERMIT APPROVAL
- ☒ CERTIFICATE OF OCCUPANCY APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ S.A.D. DRAINAGE REPORT

DRAINAGE REQUIREMENTS

OTHER	(SPECIFY)
NOV 18 1998	
HYDROLOGY SECTION	



<b>RECEIVED</b> Andrews, Asbury & Robert, Inc. Consulting Engineers	
DATE NOV 10 1997	JAA JA
JOB NO. 765	CTA
COMMENTS	
FILE <input checked="" type="checkbox"/>	

Martin J. Chávez, Mayor

November 4, 1997

John Andrews  
Andrews, Asbury & Roberts  
149 Jackson St. NE  
Albuquerque, New Mexico 87108

RE: ENGINEER CERTIFICATION FOR ESTHETICS DENTAL ARTS BUILDING  
(F21-D69) CERTIFICATION STATEMENT DATED 10/24/97

Dear Mr. Andrews:

Based on the information provided on your October 27, 1997 submittal, the above referenced site is acceptable for a 30-day temporary Certificate of Occupancy.

Please be advised that prior to the issuance of the permanent C.O., the following must be submitted:

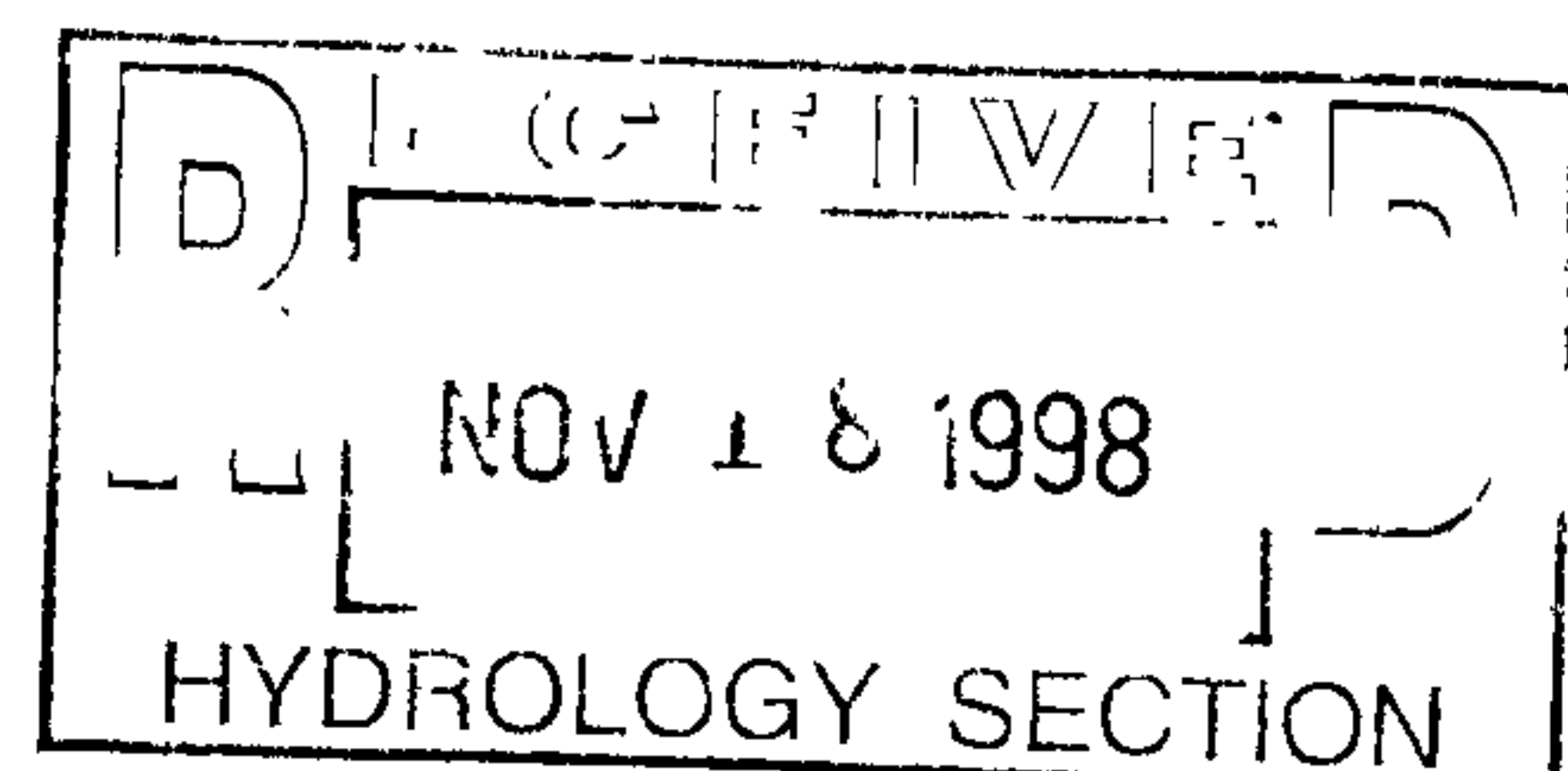
1. Recertification after the liner and the stone swale has been completed.
2. Copy of the letter of acceptance for the Work Order .

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia  
File

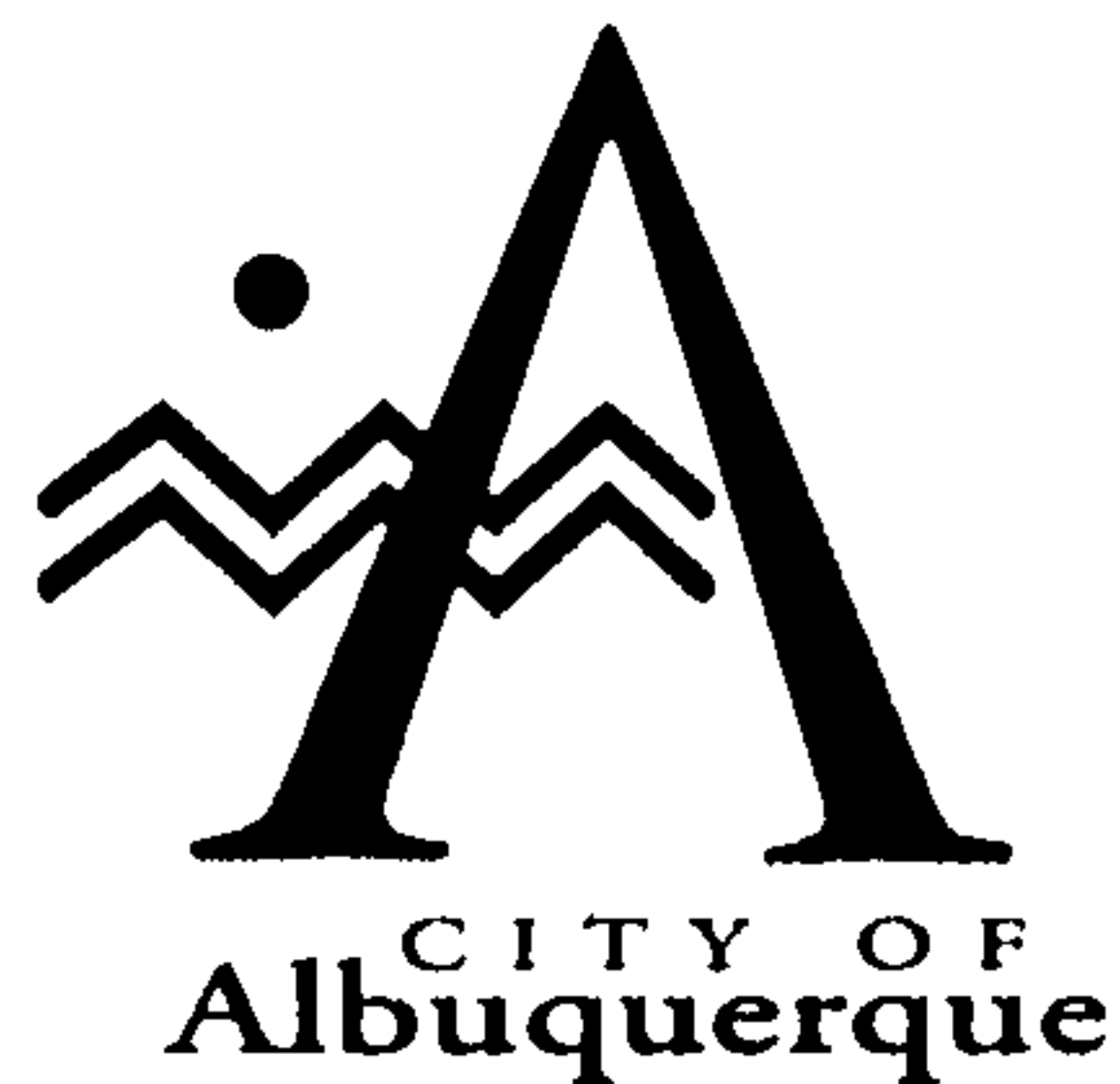
Sincerely

Bernie J. Montoya CE  
Associate Engineer



Good for You. Albuquerque!





Martin J. Chávez, Mayor

November 4, 1997

John Andrews  
Andrews, Asbury & Roberts  
149 Jackson St. NE  
Albuquerque, New Mexico 87108

RE: ENGINEER CERTIFICATION FOR ESTHETICS DENTAL ARTS BUILDING  
(F21-D69) CERTIFICATION STATEMENT DATED 10/24/97

Dear Mr. Andrews:

Based on the information provided on your October 27, 1997 submittal, the above referenced site is acceptable for a 30-day temporary Certificate of Occupancy.

Please be advised that prior to the issuance of the permanent C.O., the following must be submitted:

1. Recertification after the liner and the stone swale has been completed.
2. Copy of the letter of acceptance for the Work Order .

If I can be of further assistance, please feel free to contact me at 924-3986.

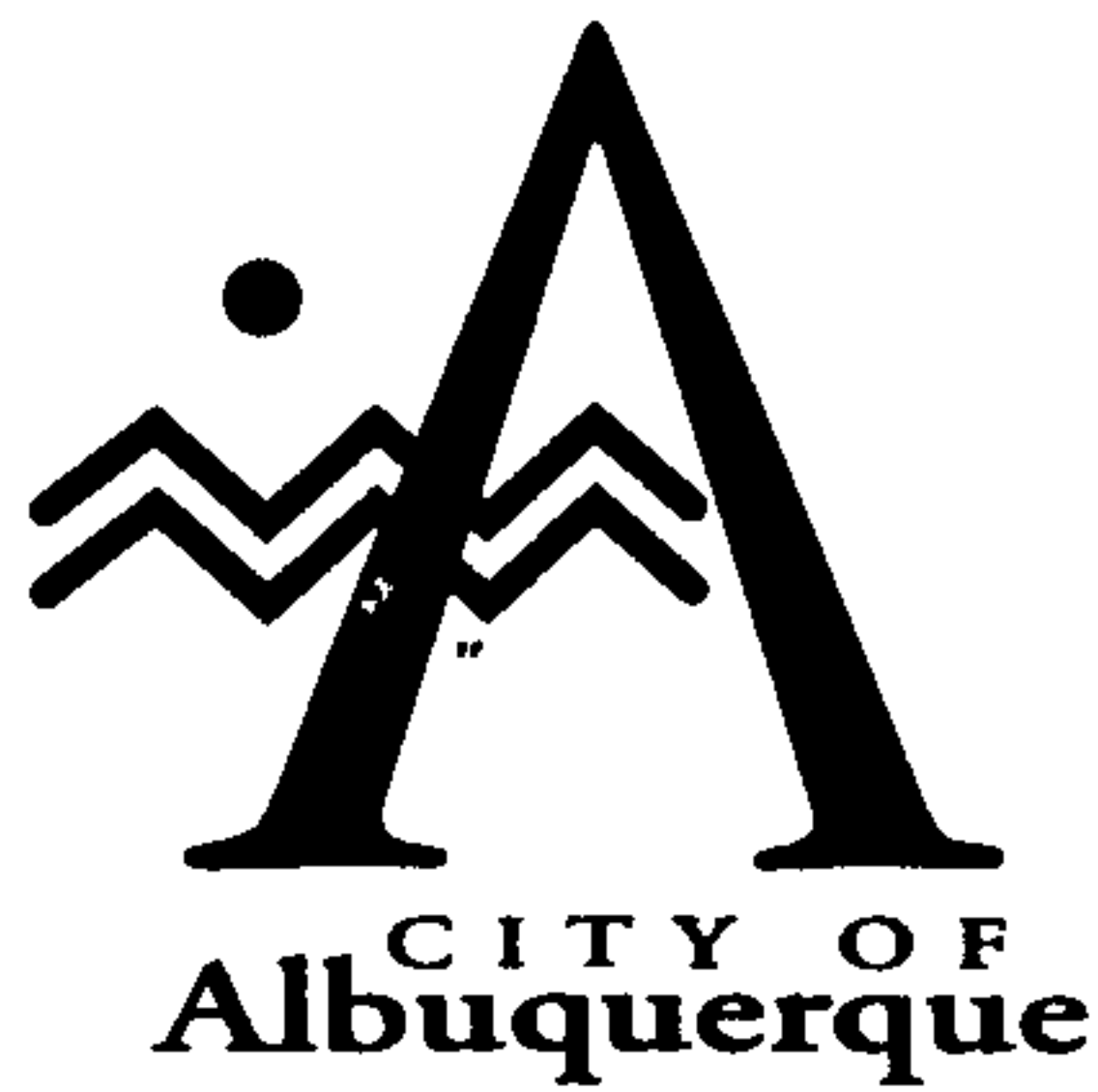
C: Andrew Garcia

File

Sincerely

Bernie J. Montoya CE  
Associate Engineer





December 12, 1996

Martin J. Chávez, Mayor

John Andrews  
Andrews, Asbury & Robert  
149 Jackson St. NE  
Albuquerque, NM 87108

**RE: DRAINAGE PLAN FOR ESTHETICS DENTAL ARTS BUILDING  
(F21-D69) ENGINEER'S STAMP DATED 12/5/96.**

Dear Mr. Andrews:

Based on the information provided on your December 6, 1996 resubmittal, the above referenced site is approved for Building Permit.

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

Prior to Certificate of Occupancy release, the following must be provided:

1. Copy of Work Order Acceptance letter.
2. Engineer Certification per the D.P.M. guidelines.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya, CE  
Engineering Associate

BJM/dl

c: Andrew Garcia  
File

Good for You, Albuquerque!





PROJECT TITLE: Esthetes Dental ZONE ATLAS/DRNG. FILE #: F21 **D69**

DRB #: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_

LEGAL DESCRIPTION: \_\_\_\_\_

CITY ADDRESS: 4630 Eubank Dr

ENGINEERING FIRM: Amthaus, Asberry, & Roberts CONTACT: John Andrews

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

OWNER: \_\_\_\_\_ CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

ARCHITECT: \_\_\_\_\_ CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

SURVEYOR: \_\_\_\_\_ CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_ CONTACT: \_\_\_\_\_

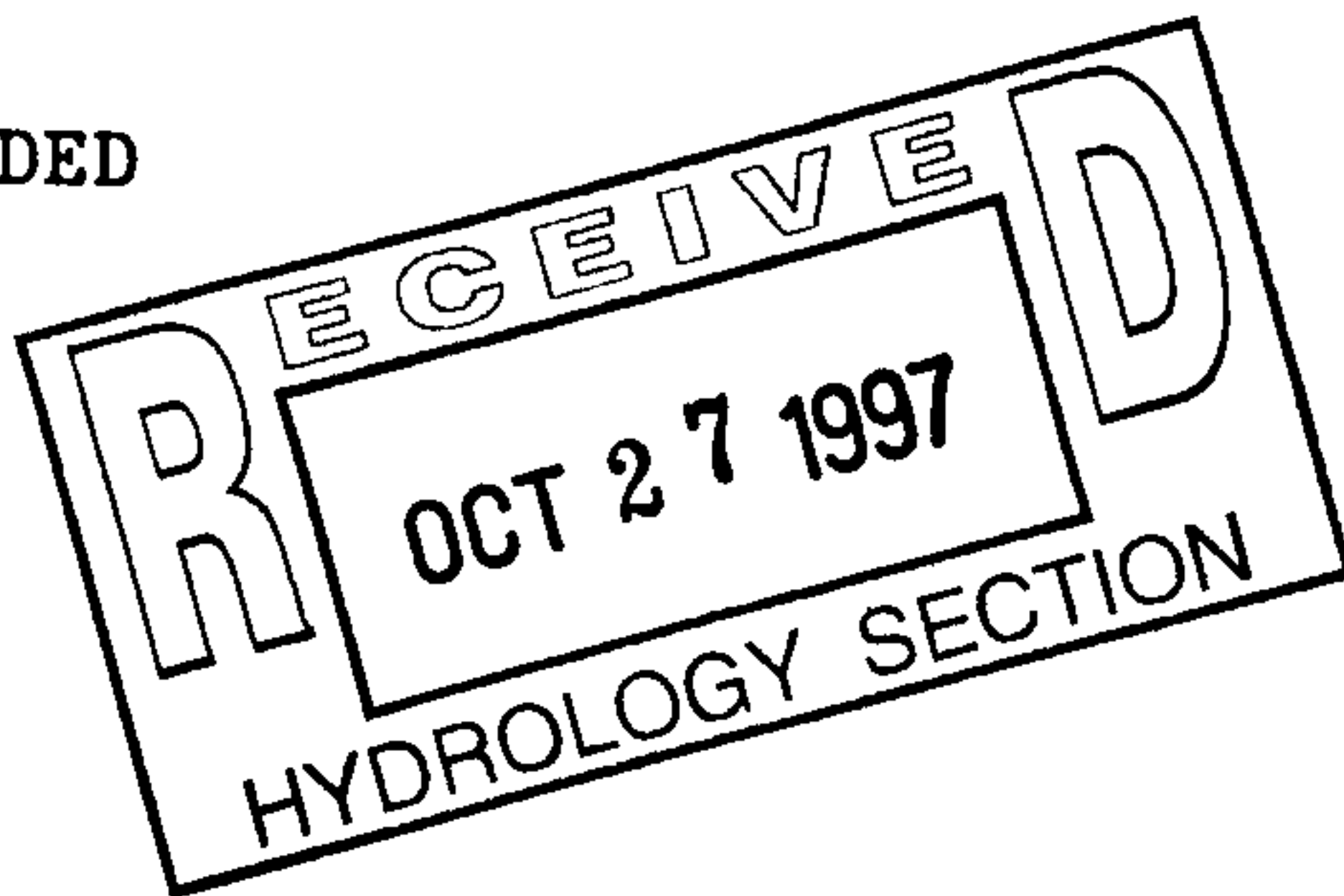
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT  
☐ DRAINAGE PLAN  
☐ CONCEPTUAL GRADING & DRAINAGE PLAN  
☐ GRADING PLAN  
☐ EROSION CONTROL PLAN  
☒ ENGINEER'S CERTIFICATION  
☐ OTHER \_\_\_\_\_

PRE-DESIGN MEETING:

- ☐ YES  
☐ NO  
☐ COPY PROVIDED



CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL  
☐ PRELIMINARY PLAT APPROVAL  
☐ S. DEV. PLAN FOR SUB'D. APPROVAL  
☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL  
☐ SECTOR PLAN APPROVAL  
☐ FINAL PLAT APPROVAL  
☐ FOUNDATION PERMIT APPROVAL  
☐ BUILDING PERMIT APPROVAL  
☒ CERTIFICATE OF OCCUPANCY APPROVAL *30 day Temp.*  
☐ GRADING PERMIT APPROVAL  
☐ PAVING PERMIT APPROVAL  
☐ S.A.D. DRAINAGE REPORT  
☐ DRAINAGE REQUIREMENTS  
☐ SUBDIVISION CERTIFICATION  
☐ OTHER \_\_\_\_\_ (SPECIFY)

DATE SUBMITTED: Will ROLE 10/27/97  
BY: \_\_\_\_\_

*called in  
on 10/27/97  
LAM*



149 JACKSON STREET NE., ALBUQUERQUE, NEW MEXICO 87108

505-265-6631 FAX 505-266-8112  
e-mail: aarnm@ix.netcom.com

December 5, 1996

Bernie Montoya, C.E.  
Public Works Department  
City of Albuquerque  
P.O. Box 1293  
Albuquerque, NM 87103

**Subject: Grading and Drainage Plan Resubmittal for Esthetic Dental Arts Building, (F21-D69)**

Dear Mr. Montoya:

Transmitted herewith are two (2) copies of the subject resubmittal. A copy of your comment letter dated November 27, 1996, is also included.

In reply to your concerns on items 1 through 6:

1. The hydraulic computations for structures are included in the Drainage Analysis on Sheet C2. Each weir, culvert and pipe was analyzed and the appropriate equations are included. Also, a copy of the Reservoir Routing and Hydrologic Model is included so that there is a clear understanding of the ponding scheme.
2. The sidewalk culvert and sidewalk itself will act as an emergency spillway to the Eubank Blvd. roadway. The finished floor building elevation is above the low point of the sidewalk at the culvert; thus, overflow will spill into Eubank Blvd.
3. The DRC submittal is not yet approved and a work order number has not been issued, but the submittal includes the sidewalk culvert and storm drain line into the main line storm drain in Eubank Blvd.
4. The pond routings and pond areas were re-worked so that ponded areas do not affect footings of walls or buildings. The plans reflect the changes.
5. The mean-sea-level designation is noted on the building.
6. The sidewalk culvert is to be constructed under DRC submittal.

If there are any further clarifications required, please notify me and I will reply accordingly.

Very truly yours,

ANDREWS, ASBURY & ROBERT, INC.

*Scott M. Beeson*  
Scott M. Beeson, E.I.

DEC - 6

SMB:edm  
Attachments

A LARKIN GROUP COMPANY

d:\projects\76503\GradDran.Pl

OFFICES: ALBUQUERQUE, NEW MEXICO  
LAS CRUCES, NEW MEXICO

RUSSELLVILLE, ARKANSAS

KANSAS CITY, MISSOURI  
SPRINGFIELD, MISSOURI

4195 RECORD(S) SELECTED

ENTER COMMAND >RESEL MKEY CN 'G19'  
15 RECORD(S) SELECTED

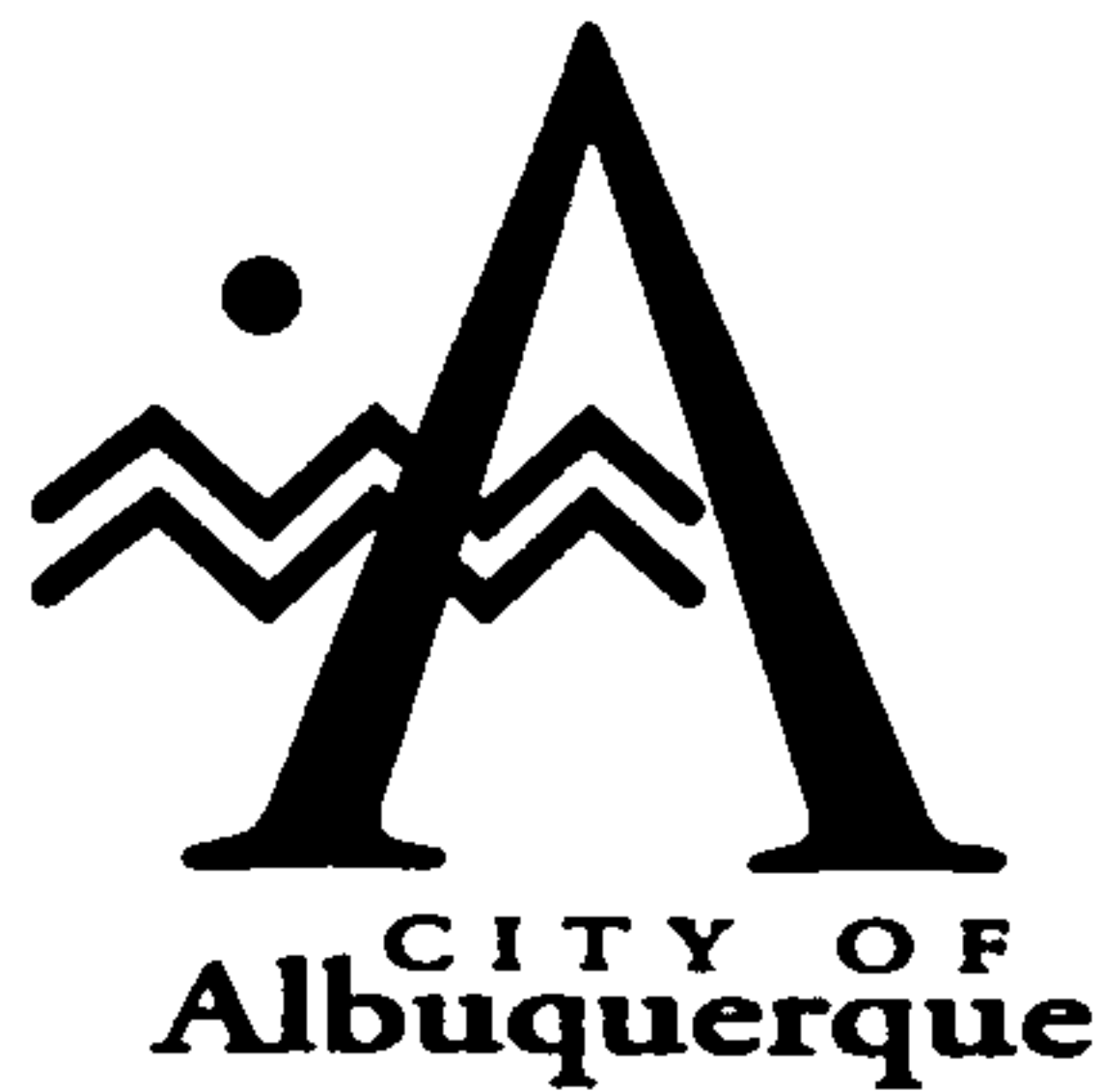
ENTER COMMAND >LIST PROJ.NO,PROJ.NM

\$RECNO	PROJ.NO	PROJ.NM
552	1550	STORM DRAIN AT PENN/HENDRIX
948	1948	CURB RET. REPL. AT PENNSLVANIA/HENDRIX
1372	2369	INTERS. IMPROV. WYOMING/MONTGOMERY BLVD
1402	2399	LOUISIANA PLAZA SHOPPING CTR. W.L. EXT.
1474	2470	LOUISIANA SHOPPING CTR. LEFT TURNBAY
1589	2582	FH AT 7400 MONTGOMERY
1744	2733	FH AT 7400 MONTGOMERY
1866	2855	SW/C/G REPL. ON PENN. HANN ARROYO CROSS
2216	3194	STARDUST SKIES PARK LANDSCAPING
2942	3865	STORM SEWER CONN. FOR LA MIRADA SQUARE
3231	4171.90	STORM DRAIN REHAB PHASE I
3271	4225.90	MEDIAN REVISION WYOMING/JAMES AVE.
3408	4381.91	THOMAS WELL NO 7 SITE IMPROVEMENTS
4182	4818.91	SANDIA HIGH SHCOOL TRACK IMPROVEMENTS
4183	4745.90	LANDSCAPE IMPROVEMENTS COMANCHE MEDIANS

ENTER COMMAND >■

55-13-72  
55-36-77





November 27, 1996

Martin J. Chávez, Mayor  
John Andrews  
Andrews, Asbury & Robert  
149 Jackson St. NE  
Albuquerque, NM 87108

**RE: DRAINAGE PLAN FOR ESTHETICS DENTAL ARTS BUILDING  
(F21-D69) ENGINEER'S STAMP DATED 11/22/96.**

Dear Mr. Andrews:

Based on the information provided on your November 25, 1996 submittal, the above referenced site is approved for Rough Grading permit. Please be advised that prior to Building Permit release, the following concerns must be addressed:

1. Hydraulics for all the proposed drainage structures. (Inlets, pipes, spillways, etc.).
2. The plan drawing is unclear as to what you propose for your spillway. Will the run-down be designed to connect to the sidewalk culvert. The plan drawing is very vague.
3. Identify the DRC W.O. number which is tied to the DRC submittal.
4. The plan drawing identifies that the 100-yr. D.S.E. is within the limits of the building walls. I am concerned with ponding adjacent to the buildings. A 15' foot buffer is required per the D.P.M. checklist. Please address.
5. Finish floor elevation must be to full mean-sea-level designation.
6. The sidewalk culvert if not a part of the work order, will need to be installed as an S.O. 19. You will need to include the six notes and sign-off block within the plan drawing. Provide two copies with the resubmittal.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,  
*Bernie J. Montoya*  
Bernie J. Montoya, CE  
Engineering Associate

BJM/dl

c: Andrew Garcia  
File

Good for You, Albuquerque!

DEC - 6  
1996



## DRAINAGE INFORMATION SHEET

PROJECT TITLE: Esthetic Dental Arts Building ZONE ATLAS/DRNG. FILE #: F-212 4-69DRB #: 96-391 EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_LEGAL DESCRIPTION: Tract A, FICHTNER TRACTCITY ADDRESS: 4630 Eubank N.E.ENGINEERING FIRM: Andrews, Asbury & Robert, Inc. CONTACT: Scott BeesonADDRESS: 149 Jackson St. N.E., Albuquerque, NM 87108 PHONE: 265-6631OWNER: Gary Fichtner CONTACT: Gary FichtnerADDRESS: 8400 Osuna N.E., Albuquerque, NM 87111 PHONE: 293-6373ARCHITECT: Dean Krueger Associates CONTACT: Keith MinnieADDRESS: 204 Madeira N.E., Albuquerque, NM 87108 PHONE: 265-6676SURVEYOR: Andrews, Asbury & Robert, Inc. CONTACT: Gayle D. JewellADDRESS: 149 Jackson St. N.E., Albuquerque, NM 87108 PHONE: 265-6631

CONTRACTOR: \_\_\_\_\_ CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

## TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT  
☒ DRAINAGE PLAN  
☐ CONCEPTUAL GRADING & DRAINAGE PLAN  
☒ GRADING PLAN  
☐ EROSION CONTROL PLAN  
☐ ENGINEER'S CERTIFICATION  
☐ OTHER

## PRE-DESIGN MEETING:

- ☒ YES  
☐ NO  
☒ COPY OF CONFERENCE RECAP SHEET PROVIDED

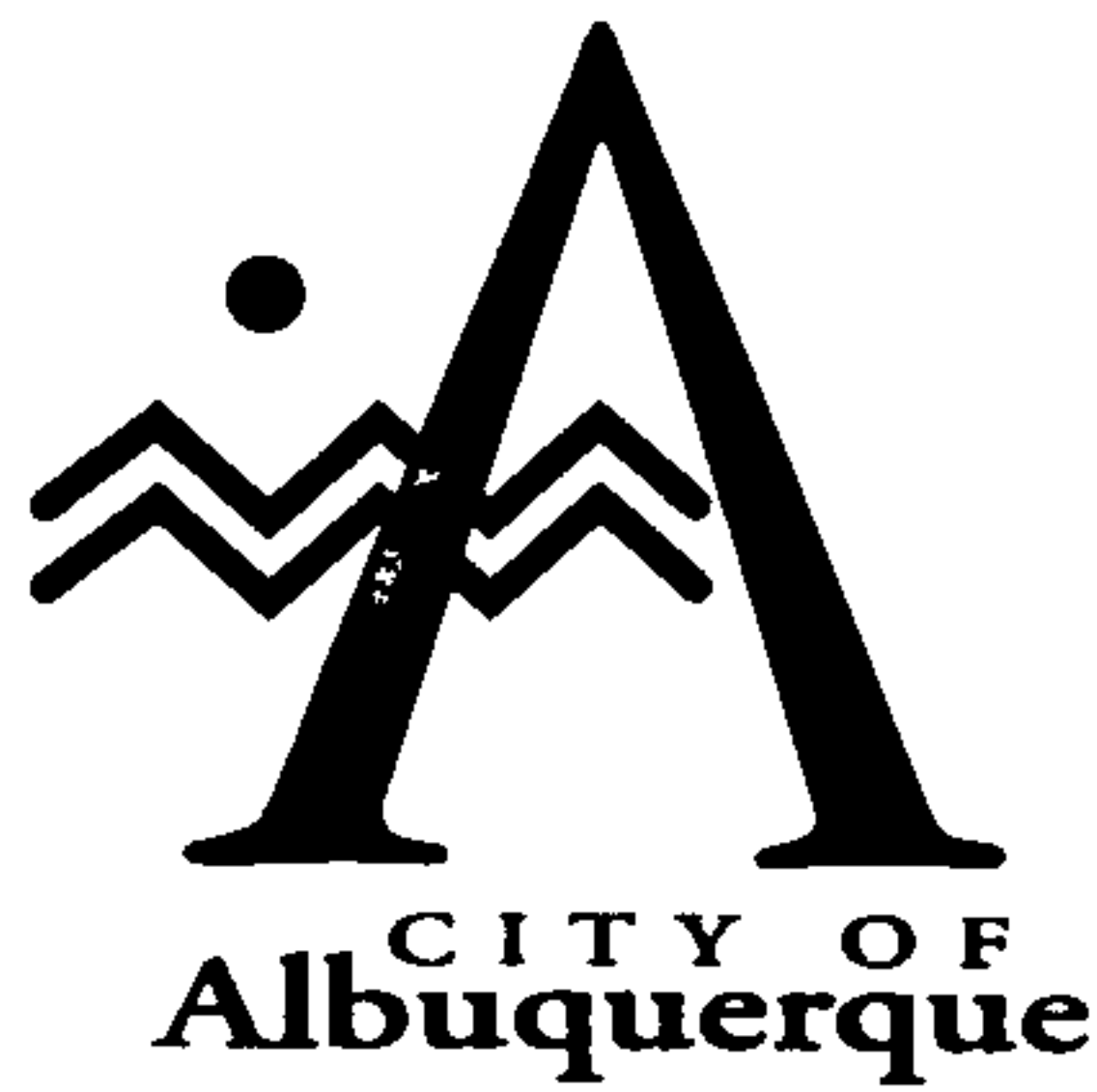
## CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL  
☐ PRELIMINARY PLAT APPROVAL  
☐ SITE DEVELOP. PLAN FOR SUB'D. APPROVAL  
☐ SITE DEVELOP. PLAN FOR BLDG. PERMIT  
☐ SECTOR PLAN APPROVAL  
☐ FINAL PLAT APPROVAL  
☐ FOUNDATION PERMIT APPROVAL  
☒ BUILDING PERMIT APPROVAL  
☐ CERTIFICATE OF OCCUPANCY APPROVAL  
☐ GRADING PERMIT APPROVAL  
☐ PAVING PERMIT APPROVAL  
☐ S.A.D. DRAINAGE REPORT  
☐ DRAINAGE REQUIREMENTS  
☐ ROUGH GRADING PERMIT APPROVAL  
☐ OTHER \_\_\_\_\_ (SPECIFY)

DATE SUBMITTED: December 5, 1996BY: Scott M. Beeson  
Scott M. Beeson

DF - 6

d:\forms\3\draininfo.sht



November 27, 1996

Martin J. Chávez, Mayor  
John Andrews  
Andrews, Asbury & Robert  
149 Jackson St. NE  
Albuquerque, NM 87108


**RE: DRAINAGE PLAN FOR ESTHETICS DENTAL ARTS BUILDING  
(F21-D69) ENGINEER'S STAMP DATED 11/22/96.**

Dear Mr. Andrews:

Based on the information provided on your November 25, 1996 submittal, the above referenced site is approved for Rough Grading permit. Please be advised that prior to Building Permit release, the following concerns must be addressed:

1. Hydraulics for all the proposed drainage structures. (Inlets, pipes, spillways, etc.).
2. The plan drawing is unclear as to what you propose for your spillway. Will the run-down be designed to connect to the sidewalk culvert. The plan drawing is very vague.
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If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,  
  
Bernie J. Montoya, CE  
Engineering Associate

BJM/dl

c: Andrew Garcia  
File

Good for You, Albuquerque!





**ANDREWS, ASBURY & ROBERT, INC.**  
**Consulting Engineers**

149 Jackson NE, Albuquerque, New Mexico 87108  
Tel: (505) 265-6631 • Fax: (505) 266-8112

John B. Robert, P.E. & L.S. (1915-1984)  
John A. Andrews, P.E.  
Charles T. Asbury, P.E.  
Gayle D. Jewell, L.S. - V.P.

November 22, 1996

Ms. Lisa Manwill  
Hydrology Division  
Public Works Department  
City of Albuquerque  
P.O. Box 1293  
Albuquerque, NM 87103

**Subject: Esthetic Dental Arts Building Grading & Drainage Plan**

Dear Ms. Manwill:

Transmitted herewith are <sup>one (1)</sup> ~~two (2)~~ copies of the grading and drainage plan and report for the subject project. The pre-design conference notes are included. Please review these plans for compliance with the City's criteria. Presently, we are seeking rough grading approval and building permit approval.

The basic drainage plan incorporates proposed on-site ponding, existing storm drain facilities in Eubank Blvd., and the Eubank roadway itself. Essentially, the lower ponding area will outflow at a restricted rate through a proposed catch basin to the Eubank storm drain. When depths begin to exceed the hydraulic capacity of the catch basin, a proposed sidewalk culvert will release storm water directly to the Eubank roadway. In the event that the pond depth exceeds both the catch basin and sidewalk culvert, i.e., exceeding the 100-year event or facilities clogged, storm water will spill over the sidewalk at the culvert into Eubank Blvd.

Upon completion of your review or if you require further information, please contact me and I will address your comments and meet with you as you require.

Very truly yours,

ANDREWS, ASBURY & ROBERT, INC.

Scott M. Beeson, E.I.

SMB:edm

Attachments

d:\projects\76503\GrDranPl&Rpt



## DRAINAGE INFORMATION SHEET

PROJECT TITLE: Esthetic Dental Arts Building ZONE ATLAS/DRNG. FILE #: F-21Z <sup>69</sup>/~~450~~DRB #: 96-391 EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_LEGAL DESCRIPTION: Tract A, FICHTNER TRACTCITY ADDRESS: 4630 Eubank N.E.ENGINEERING FIRM: Andrews, Asbury & Robert, Inc. CONTACT: Scott BeesonADDRESS: 149 Jackson St. N.E., Albuquerque, NM 87108 PHONE: 265-6631OWNER: Gary Fichtner CONTACT: Gary FichtnerADDRESS: 8400 Osuna N.E., Albuquerque, NM 87111 PHONE: 293-6373ARCHITECT: Dean Krueger Associates CONTACT: Keith MinnieADDRESS: 204 Madeira N.E., Albuquerque, NM 87108 PHONE: 265-6676SURVEYOR: Andrews, Asbury & Robert, Inc. CONTACT: Gayle D. JewellADDRESS: 149 Jackson St. N.E., Albuquerque, NM 87108 PHONE: 265-6631

CONTRACTOR: \_\_\_\_\_ CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

## TYPE OF SUBMITTAL:

- ☒ DRAINAGE REPORT
- ☒ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☒ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION
- ☐ OTHER

## PRE-DESIGN MEETING:

- ☒ YES
- ☐ NO
- ☒ COPY OF CONFERENCE RECAP SHEET PROVIDED

## CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ SITE DEVELOP. PLAN FOR SUB'D. APPROVAL
- ☐ SITE DEVELOP. PLAN FOR BLDG. PERMIT
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- ☐ CERTIFICATE OF OCCUPANCY APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ S.A.D. DRAINAGE REPORT
- ☐ DRAINAGE REQUIREMENTS
- ☒ ROUGH GRADING PERMIT APPROVAL
- ☐ OTHER \_\_\_\_\_ (SPECIFY)

DATE SUBMITTED: November 22, 1996BY: Scott M. Beeson  
Scott M. Beeson



CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
UTILITY DEVELOPMENT DIVISION/HYDROLOGY SECTION

File 765

PRE-DESIGN CONFERENCE

DRAINAGE FILE/ZONE ATLAS PAGE NO.: F-21 DATE: 8-30-96  
EPC NO.: \_\_\_\_\_ DRB NO.: \_\_\_\_\_ ZONE: F-21  
SUBJECT: ESTHETIC DENTAL ARTS BLDG  
STREET ADDRESS: MONTGOMERY + ELIZABETH  
LEGAL DESCRIPTION: \_\_\_\_\_

APPROVAL REQUESTED: \_\_\_\_\_ PRELIMINARY PLAT \_\_\_\_\_ FINAL PLAT  
\_\_\_\_\_ SITE DEVELOPMENT PLAN ☒ BUILDING PERMIT  
\_\_\_\_\_ GRADING/PAVING PERMIT \_\_\_\_\_ OTHER

WHO REPRESENTING  
ATTENDANCE: SCOTT BEESON ANDREAS, ASBURY, + ROBERT

FINDINGS:

- This is an infill site that is  $\pm 200$  ft south of the Bear Arroyo. Unless otherwise found through researching the existing reports, Allowable discharge can be equal to historical, (100yr-6hr storm).
- Drain your pond in 24 hrs.
- Sidewalk culverts and pipe below SD will require an SD #19 permit.
- Check to see if this requires a DRB submittal.

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: [Signature] SIGNED: Scott M. Beeson  
TITLE: \_\_\_\_\_ TITLE: Asst. Dir.  
DATE: 8/30/96 DATE: Aug 30, 96

**\*\*NOTE\*\*** PLEASE PROVIDE A COPY OF THIS PRE-DESIGN FORM WITH THE DRAINAGE SUBMITTAL.

**RESERVOIR ROUTING AND HYDROLOGIC MODEL  
FOR  
ESTHETIC DENTAL ARTS BUILDING  
4630 EUBANK BLVD. NE  
(F21-D69)**

Attachment to Grading and Drainage Plan for Esthetic Dental Arts Building

DEC - 6

AHYMO SUMMARY TABLE (AHYMO194) - AMAFCA Hydrologic Model - January, 1994      RUN DATE (MON/DAY/YR) =12/03/1996  
 INPUT FILE = fich2.in      USER NO.= ANASRONM.I01

FROM	TO	PEAK	RUNOFF	TIME TO	CFS	PAGE =	1
HYDROGRAPH ID	ID	AREA	DISCHARGE	VOLUME	RUNOFF	PEAK	PER
COMMAND	IDENTIFICATION	NO.	NO.	(SQ MI)	(CFS)	(AC-FT)	(INCHES)
						(HOURS)	ACRE
							NOTATION

START					TIME=	.00	
RAINFALL TYPE= 1					RAIN6=	2.900	
COMPUTE NM HYD	TOTAL -	3	.00191	5.86	.237	2.32833	1.500 4.797 PER IMP= 80.00
COMPUTE NM HYD	DA-1 -	4	.00069	2.13	.085	2.32833	1.500 4.828 PER IMP= 80.00
COMPUTE NM HYD	DA-2 -	8	.00036	1.13	.045	2.32833	1.500 4.872 PER IMP= 80.00
ROUTE RESERVOIR	DA2POND	8 9	.00036	.33	.045	2.32768	1.867 1.427 AC-FT= .021
COMPUTE NM HYD	DA-3 -	6	.00086	2.65	.107	2.32833	1.500 4.819 PER IMP= 80.00
ADD HYD	PONDS 9& 6	11	.00122	2.86	.151	2.32717	1.500 3.665
ROUTE RESERVOIR	LOWERPOND	11 7	.00122	1.29	.151	2.32717	1.767 1.660 AC-FT= .040
FINISH							

AHYMO PROGRAM (AHYMO194) - AMAFCA Hydrologic Model - January, 1994

RUN DATE (MON/DAY/YR) = 12/03/1996

START TIME (HR:MIN:SEC) = 06:57:03 USER NO. = ANASRONM.I01

INPUT FILE = fich2.in

- \* INPUT FOR FICHTNER OFC BLDG JOB 765,1996
- \* LAND TREATMENTS DET BY ACTUAL MEASUREMENT NOT ASSUMPTIONS
- \* INPUT FILE NAME: TRIAL.IN
- \* 100 YEAR 6 HOUR STORM.

\*\*\*\*\* Set time to start \*\*\*\*\*

START TIME = 0.0

\*\*\*\*\* COMPUTE RAINFALL DISTRIBUTION

RAINFALL TYPE=1

RAIN QUARTER=0.0 RAIN ONE = 2.230 IN

RAIN SIX=2.90 IN RAIN DAY = 3.65 IN

DT=0.0333333

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.

DT = .033333 HOURS END TIME = 5.999995 HOURS

.0000	.0055	.0110	.0167	.0225	.0284	.0345
.0406	.0470	.0534	.0600	.0668	.0738	.0809
.0882	.0958	.1035	.1115	.1198	.1283	.1370
.1461	.1555	.1653	.1755	.1860	.1971	.2086
.2207	.2335	.2469	.2531	.2596	.2667	.2819
.3158	.3679	.4428	.5450	.6793	.8506	1.0638
1.3240	1.5647	1.6654	1.7504	1.8261	1.8949	1.9582
2.0171	2.0721	2.1236	2.1721	2.2178	2.2611	2.3020
2.3407	2.3775	2.4124	2.4455	2.4769	2.4850	2.4928
2.5002	2.5074	2.5143	2.5210	2.5276	2.5339	2.5400
2.5460	2.5518	2.5575	2.5631	2.5685	2.5738	2.5790
2.5841	2.5891	2.5940	2.5989	2.6036	2.6083	2.6129
2.6174	2.6218	2.6262	2.6305	2.6348	2.6390	2.6431
2.6472	2.6512	2.6552	2.6591	2.6630	2.6668	2.6706
2.6744	2.6781	2.6817	2.6854	2.6890	2.6925	2.6960
2.6995	2.7029	2.7064	2.7097	2.7131	2.7164	2.7197
2.7230	2.7262	2.7294	2.7326	2.7357	2.7388	2.7419
2.7450	2.7481	2.7511	2.7541	2.7571	2.7600	2.7630
2.7659	2.7688	2.7717	2.7745	2.7773	2.7802	2.7830
2.7857	2.7885	2.7912	2.7940	2.7967	2.7993	2.8020
2.8047	2.8073	2.8099	2.8126	2.8151	2.8177	2.8203
2.8228	2.8254	2.8279	2.8304	2.8329	2.8354	2.8378
2.8403	2.8427	2.8452	2.8476	2.8500	2.8524	2.8547
2.8571	2.8595	2.8618	2.8641	2.8665	2.8688	2.8711
2.8733	2.8756	2.8779	2.8801	2.8824	2.8846	2.8869
2.8891	2.8913	2.8935	2.8957	2.8978	2.9000	

COMPUTE NM HYD ID=3 HYD NO=TOTAL DRAINAGE AREA=.00191 SQ MI

PERCENT A=0 PERCENT B=20 PERCENT C=0 PERCENT D=80

TP=.133 HRS

MASSRAINFALL=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420

UNIT PEAK = 6.0462 CFS UNIT VOLUME = .9977 B = 526.28 P60 = 2.2300

AREA = .001528 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033333

K = .134438HR TP = .133000HR K/TP RATIO = 1.010815 SHAPE CONSTANT, N = 3.492236

UNIT PEAK = .91842 CFS UNIT VOLUME = .9849 B = 319.76 P60 = 2.2300

AREA = .000382 SQ MI IA = .50000 INCHES INF = 1.25000 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033333

PRINT HYD ID=3 CODE=1



# HYDROGRAPH FROM AREA TOTAL

RUNOFF VOLUME = 2.32833 INCHES = .2372 ACRE-FEET  
 PEAK DISCHARGE RATE = 5.86 CFS AT 1.500 HOURS BASIN AREA = .0019 SQ. MI.

\*  
 COMPUTE NM HYD ID=4 HYD NO=DA-1 DRAINAGE AREA=.000688 SQ MI  
 PERCENT A=0 PERCENT B=20 PERCENT C=0 PERCENT D=80  
 TP=.133 HRS  
 MASSRAINFALL=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420  
 UNIT PEAK = 2.1779 CFS UNIT VOLUME = .9943 B = 526.28 P60 = 2.2300  
 AREA = .000550 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR  
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033333

K = .134438HR TP = .133000HR K/TP RATIO = 1.010815 SHAPE CONSTANT, N = 3.492236  
 UNIT PEAK = .33082 CFS UNIT VOLUME = .9588 B = 319.76 P60 = 2.2300  
 AREA = .000138 SQ MI IA = .50000 INCHES INF = 1.25000 INCHES PER HOUR  
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033333

PRINT HYD ID=4 CODE=1

## HYDROGRAPH FROM AREA DA-1

RUNOFF VOLUME = 2.32833 INCHES = .0854 ACRE-FEET  
 PEAK DISCHARGE RATE = 2.13 CFS AT 1.500 HOURS BASIN AREA = .0007 SQ. MI.

COMPUTE NM HYD ID=8 HYD NO=DA-2 DRAINAGE AREA=.000361 SQ MI  
 PERCENT A=0 PERCENT B=20 PERCENT C=0 PERCENT D=80  
 TP=.133 HRS  
 MASSRAINFALL=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420  
 UNIT PEAK = 1.1428 CFS UNIT VOLUME = .9899 B = 526.28 P60 = 2.2300  
 AREA = .000289 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR  
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033333

K = .134438HR TP = .133000HR K/TP RATIO = 1.010815 SHAPE CONSTANT, N = 3.492236  
 UNIT PEAK = .17359 CFS UNIT VOLUME = .9199 B = 319.76 P60 = 2.2300  
 AREA = .000072 SQ MI IA = .50000 INCHES INF = 1.25000 INCHES PER HOUR  
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033333

PRINT HYD ID=8 CODE=1

## HYDROGRAPH FROM AREA DA-2

RUNOFF VOLUME = 2.32833 INCHES = .0448 ACRE-FEET  
 PEAK DISCHARGE RATE = 1.13 CFS AT 1.500 HOURS BASIN AREA = .0004 SQ. MI.

ROUTE RESERVOIR ID=9 HYD=DA2POND INFLOW ID=8 CODE=5  
 OUTFLOW(CFS) STORAGE(AC FT) ELEV(FT)

0.00	0.00	92.74
0.2	0.01	92.94
0.3	0.02	93.04
0.5	0.03	93.14
0.6	0.04	93.24
0.8	0.04	93.32
0.8	0.05	93.34



1.1	0.05	93.44
1.2	0.05	93.48

\*\*\*\*\*

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
---------------	-----------------	----------------	-------------------	------------------

.00	.00	92.74	.000	.00
.17	.00	92.74	.000	.00
.33	.00	92.74	.000	.00
.50	.00	92.74	.000	.00
.67	.02	92.74	.000	.00
.83	.04	92.75	.000	.01
1.00	.05	92.76	.001	.02
1.17	.04	92.77	.001	.03
1.33	.33	92.79	.003	.05
1.50	1.13	92.95	.011	.21
1.67	.58	93.04	.020	.30
1.83	.36	93.05	.021	.33
2.00	.26	93.05	.021	.32
2.17	.11	93.04	.020	.30
2.33	.05	93.01	.017	.27
2.50	.03	92.98	.014	.24
2.67	.02	92.95	.011	.21
2.83	.02	92.91	.009	.17
3.00	.02	92.88	.007	.14
3.17	.02	92.85	.005	.11
3.33	.01	92.83	.004	.09
3.50	.01	92.81	.003	.07
3.67	.01	92.80	.003	.06
3.83	.01	92.78	.002	.04
4.00	.01	92.78	.002	.04
4.17	.01	92.77	.002	.03
4.33	.01	92.77	.001	.03
4.50	.01	92.76	.001	.02
4.67	.01	92.76	.001	.02
4.83	.01	92.76	.001	.02
5.00	.01	92.76	.001	.02
5.17	.01	92.76	.001	.02
5.33	.01	92.75	.001	.01
5.50	.01	92.75	.001	.01
5.67	.01	92.75	.001	.01
5.83	.01	92.75	.001	.01
6.00	.01	92.75	.001	.01
6.17	.00	92.75	.001	.01
6.33	.00	92.75	.000	.01
6.50	.00	92.75	.000	.01
6.67	.00	92.75	.000	.01
6.83	.00	92.74	.000	.00

PEAK DISCHARGE = .330 CFS - PEAK OCCURS AT HOUR 1.87

MAXIMUM WATER SURFACE ELEVATION = 93.055

MAXIMUM STORAGE = .0215 AC-FT INCREMENTAL TIME= .033333HRS

COMPUTE NM HYD ID=6 HYD NO=DA-3 DRAINAGE AREA=.000858 SQ MI

PERCENT A=0 PERCENT B=20 PERCENT C=0 PERCENT D=80

TP=.133 HRS

MASSRAINFALL=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420

UNIT PEAK = 2.7161 CFS UNIT VOLUME = .9950 B = 526.28 P60 = 2.2300

AREA = .000686 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033333

K = .134438HR TP = .133000HR K/TP RATIO = 1.010815 SHAPE CONSTANT, N = 3.492236

UNIT PEAK = .41257 CFS UNIT VOLUME = .9679 B = 319.76 P60 = 2.2300

AREA = .000172 SQ MI IA = .50000 INCHES INF = 1.25000 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033333

PRINT HYD ID=6 CODE=1

# HYDROGRAPH FROM AREA DA-3

RUNOFF VOLUME = 2.32833 INCHES = .1065 ACRE-FEET  
 PEAK DISCHARGE RATE = 2.65 CFS AT 1.500 HOURS BASIN AREA = .0009 SQ. MI.

ADD HYD ID=11 HYD=PONDS ID I=9 ID II=6  
 print hyd id=11 CODE=1

# HYDROGRAPH FROM AREA PONDS

RUNOFF VOLUME = 2.32717 INCHES = .1513 ACRE-FEET  
 PEAK DISCHARGE RATE = 2.86 CFS AT 1.500 HOURS BASIN AREA = .0012 SQ. MI.

punch hyd id=11  
 ROUTE RESERVOIR ID=7 HYD=LOWERPOND INFLOW ID=11 CODE=5  
 OUTFLOW(CFS) STORAGE(AC FT) ELEV(FT)

0.00	0.00	81.50
0.5	0.01	81.75
0.7	0.01	81.90
1.3	0.04	82.25
2.5	0.07	82.50

\*\*\*\*\*

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
---------------	-----------------	----------------	-------------------	------------------

.00	.00	81.50	.000	.00
.17	.00	81.50	.000	.00
.33	.00	81.50	.000	.00
.50	.00	81.50	.000	.00
.67	.05	81.50	.000	.01
.83	.10	81.52	.001	.04
1.00	.14	81.54	.002	.08
1.17	.13	81.56	.002	.11
1.33	.84	81.63	.005	.26
1.50	2.86	82.05	.023	.95
1.67	1.65	82.23	.038	1.27
1.83	1.18	82.24	.040	1.29
2.00	.93	82.21	.037	1.23
2.17	.58	82.15	.031	1.12
2.33	.41	82.05	.023	.97
2.50	.32	81.97	.016	.82
2.67	.27	81.75	.010	.50
2.83	.22	81.69	.007	.37
3.00	.18	81.64	.006	.29
3.17	.15	81.61	.004	.22
3.33	.12	81.59	.004	.18
3.50	.10	81.57	.003	.14
3.67	.09	81.56	.002	.12
3.83	.08	81.55	.002	.10
4.00	.07	81.54	.002	.08
4.17	.06	81.54	.001	.07
4.33	.05	81.53	.001	.07
4.50	.05	81.53	.001	.06
4.67	.05	81.53	.001	.05
4.83	.05	81.53	.001	.05
5.00	.04	81.52	.001	.05
5.17	.04	81.52	.001	.05
5.33	.04	81.52	.001	.04
5.50	.04	81.52	.001	.04
5.67	.04	81.52	.001	.04
5.83	.04	81.52	.001	.04
6.00	.04	81.52	.001	.04
6.17	.02	81.52	.001	.04

6.33	.01	81.51	.001	.03
6.50	.01	81.51	.000	.02
6.67	.01	81.51	.000	.01
6.83	.00	81.50	.000	.01
7.00	.00	81.50	.000	.01
7.17	.00	81.50	.000	.00

PEAK DISCHARGE = 1.295 CFS - PEAK OCCURS AT HOUR 1.77  
 MAXIMUM WATER SURFACE ELEVATION = 82.247  
 MAXIMUM STORAGE = .0397 AC-FT INCREMENTAL TIME= .033333HRS

PRINT HYD ID=7 CODE=0

# HYDROGRAPH FROM AREA LOWERPOND

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.600	1.2	3.200	.2	4.800	.1	6.400	.0		
.033	.0	1.633	1.2	3.233	.2	4.833	.1	6.433	.0		
.067	.0	1.667	1.3	3.267	.2	4.867	.0	6.467	.0		
.100	.0	1.700	1.3	3.300	.2	4.900	.0	6.500	.0		
.133	.0	1.733	1.3	3.333	.2	4.933	.0	6.533	.0		
.167	.0	1.767	1.3	3.367	.2	4.967	.0	6.567	.0		
.200	.0	1.800	1.3	3.400	.2	5.000	.0	6.600	.0		
.233	.0	1.833	1.3	3.433	.2	5.033	.0	6.633	.0		
.267	.0	1.867	1.3	3.467	.1	5.067	.0	6.667	.0		
.300	.0	1.900	1.3	3.500	.1	5.100	.0	6.700	.0		
.333	.0	1.933	1.3	3.533	.1	5.133	.0	6.733	.0		
.367	.0	1.967	1.2	3.567	.1	5.167	.0	6.767	.0		
.400	.0	2.000	1.2	3.600	.1	5.200	.0	6.800	.0		
.433	.0	2.033	1.2	3.633	.1	5.233	.0	6.833	.0		
.467	.0	2.067	1.2	3.667	.1	5.267	.0	6.867	.0		
.500	.0	2.100	1.2	3.700	.1	5.300	.0	6.900	.0		
.533	.0	2.133	1.1	3.733	.1	5.333	.0	6.933	.0		
.567	.0	2.167	1.1	3.767	.1	5.367	.0	6.967	.0		
.600	.0	2.200	1.1	3.800	.1	5.400	.0	7.000	.0		
.633	.0	2.233	1.1	3.833	.1	5.433	.0	7.033	.0		
.667	.0	2.267	1.0	3.867	.1	5.467	.0	7.067	.0		
.700	.0	2.300	1.0	3.900	.1	5.500	.0	7.100	.0		
.733	.0	2.333	1.0	3.933	.1	5.533	.0	7.133	.0		
.767	.0	2.367	.9	3.967	.1	5.567	.0	7.167	.0		
.800	.0	2.400	.9	4.000	.1	5.600	.0	7.200	.0		
.833	.0	2.433	.9	4.033	.1	5.633	.0	7.233	.0		
.867	.1	2.467	.8	4.067	.1	5.667	.0	7.267	.0		
.900	.1	2.500	.8	4.100	.1	5.700	.0	7.300	.0		
.933	.1	2.533	.8	4.133	.1	5.733	.0	7.333	.0		
.967	.1	2.567	.8	4.167	.1	5.767	.0	7.367	.0		
1.000	.1	2.600	.7	4.200	.1	5.800	.0	7.400	.0		
1.033	.1	2.633	.7	4.233	.1	5.833	.0	7.433	.0		
1.067	.1	2.667	.5	4.267	.1	5.867	.0	7.467	.0		
1.100	.1	2.700	.5	4.300	.1	5.900	.0	7.500	.0		
1.133	.1	2.733	.4	4.333	.1	5.933	.0	7.533	.0		
1.167	.1	2.767	.4	4.367	.1	5.967	.0	7.567	.0		
1.200	.1	2.800	.4	4.400	.1	6.000	.0	7.600	.0		
1.233	.1	2.833	.4	4.433	.1	6.033	.0	7.633	.0		
1.267	.1	2.867	.4	4.467	.1	6.067	.0	7.667	.0		
1.300	.2	2.900	.3	4.500	.1	6.100	.0	7.700	.0		
1.333	.3	2.933	.3	4.533	.1	6.133	.0	7.733	.0		
1.367	.4	2.967	.3	4.567	.1	6.167	.0	7.767	.0		
1.400	.5	3.000	.3	4.600	.1	6.200	.0	7.800	.0		
1.433	.8	3.033	.3	4.633	.1	6.233	.0	7.833	.0		
1.467	.9	3.067	.3	4.667	.1	6.267	.0				
1.500	1.0	3.100	.2	4.700	.1	6.300	.0				
1.533	1.1	3.133	.2	4.733	.1	6.333	.0				
1.567	1.1	3.167	.2	4.767	.1	6.367	.0				

RUNOFF VOLUME = 2.32717 INCHES = .1513 ACRE-FEET  
 PEAK DISCHARGE RATE = 1.29 CFS AT 1.767 HOURS BASIN AREA = .0012 SQ. MI.

FINISH

NORMAL PROGRAM FINISH      END TIME (HR:MIN:SEC) = 06:57:09

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* INPUT FOR FICHTNER OFC BLDG JOB 765,1996
* LAND TREATMENTS DET BY ACTUAL MEASUREMENT NOT ASSUMPTIONS
* INPUT FILE NAME: TRIAL.IN
* 100 YEAR 6 HOUR STORM.
*
***** Set time to start *****
*
START      TIME = 0.0
*
***** COMPUTE RAINFALL DISTRIBUTION
*
RAINFALL    TYPE=1
            RAIN QUARTER=0.0    RAIN ONE = 2.230 IN
            RAIN SIX=2.90 IN    RAIN DAY = 3.65 IN
            DT=0.0333333
*
*
*
COMPUTE NM HYD  ID=3 HYD NO=TOTAL DRAINAGE AREA=.00191 SQ MI
            PERCENT A=0 PERCENT B=20 PERCENT C=0 PERCENT D=80
            TP=.133 HRS
            MASSRAINFALL=-1
PRINT HYD      ID=3 CODE=1
*
COMPUTE NM HYD  ID=4 HYD NO=DA-1 DRAINAGE AREA=.000688 SQ MI
            PERCENT A=0 PERCENT B=20 PERCENT C=0 PERCENT D=80
            TP=.133 HRS
            MASSRAINFALL=-1
PRINT HYD      ID=4 CODE=1

COMPUTE NM HYD  ID=8 HYD NO=DA-2 DRAINAGE AREA=.000361 SQ MI
            PERCENT A=0 PERCENT B=20 PERCENT C=0 PERCENT D=80
            TP=.133 HRS
            MASSRAINFALL=-1
PRINT HYD      ID=8 CODE=1
ROUTE RESERVOIR ID=9 HYD=DA2POND INFLOW ID=8 CODE=5
            OUTFLOW(CFS) STORAGE(AC FT) ELEV(FT)
            0.00    0.00    92.74
            0.2     0.01    92.94
            0.3     0.02    93.04
            0.5     0.03    93.14
            0.6     0.04    93.24
            0.8     0.04    93.32
            0.8     0.05    93.34
            1.1     0.05    93.44
            1.2     0.05    93.48
COMPUTE NM HYD  ID=6 HYD NO=DA-3 DRAINAGE AREA=.000858 SQ MI
            PERCENT A=0 PERCENT B=20 PERCENT C=0 PERCENT D=80
            TP=.133 HRS
            MASSRAINFALL=-1
PRINT HYD      ID=6 CODE=1
ADD HYD        ID=11 HYD=PONDS ID I=9 ID II=6
print hyd      id=11 CODE=1
punch hyd      id=11
ROUTE RESERVOIR ID=7 HYD=LOWERPOND INFLOW ID=11 CODE=5
            OUTFLOW(CFS) STORAGE(AC FT) ELEV(FT)
            0.00    0.00    81.50
            0.5     0.01    81.75
            0.7     0.01    81.90
            1.3     0.04    82.25
            2.5     0.07    82.50
PRINT HYD      ID=7 CODE=0
FINISH

```