

November 25, 1997

Martin J. Chávez, Mayor

James Alarid
Chavez-Grieves
5639 Jefferson NE
Albuquerque, NM 87109

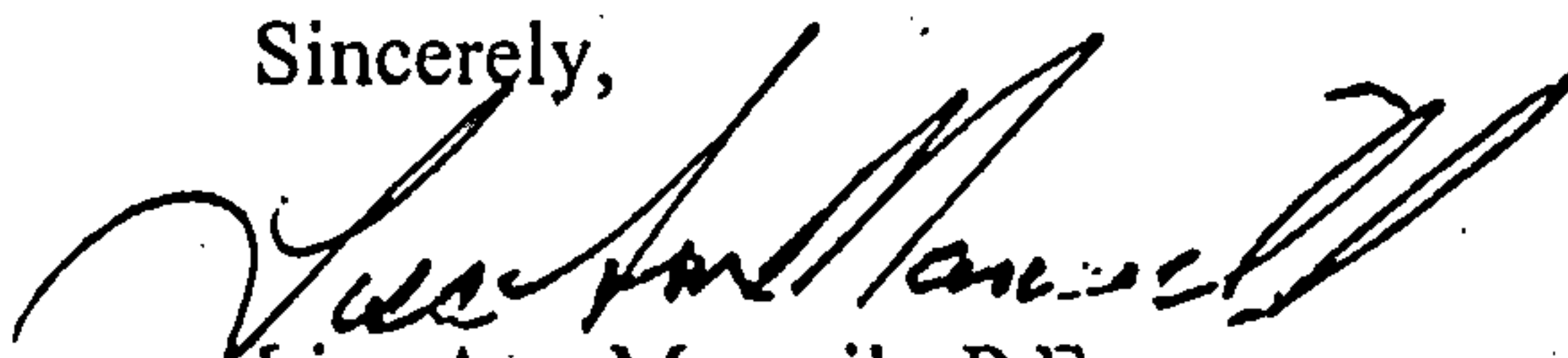
**RE: MTTC (L15-D31D). ENGINEER'S CERTIFICATION FOR CERTIFICATE OF
OCCUPANCY. ENGINEER'S CERTIFICATION DATED OCTOBER 29, 1997.**

Dear Mr. Alarid:

Based on the information provided on your October 29, 1997 submittal, the above referenced project is approved for Certificate of Occupancy.

If I can be of further assistance, please feel free to contact me at 924-3924.

Sincerely,



Lisa Ann Marshall, P.E.
Hydrology

c: Andrew Garcia

File

Good for you, Albuquerque!



DRAINAGE INFORMATION

PROJECT TITLE: UNM MTTT BUILDING

ZONE ATLAS/DRNG. FILE #: L-15-Z 31 D

DRB#: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: Tract 1C, University Center Phase 1, Filed April 20, 1990, in Vol 90C-119

CITY ADDRESS: ~~2010 UTAH NE ALBUQUERQUE NEW MEXICO~~ 800 Bradbury Dr N.E.

ENGINEERING FIRM: CHAVEZ-GRIEVES

CONTACT: JAMES ALARID

ADDRESS: 5639 Jefferson NE

PHONE: 344-4080

OWNER: University of New Mexico

CONTACT: _____

ADDRESS: _____

PHONE: _____

ARCHITECT: DCSW

CONTACT: David Palacios

ADDRESS: 105 4th Street SW

PHONE: 843-9639

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

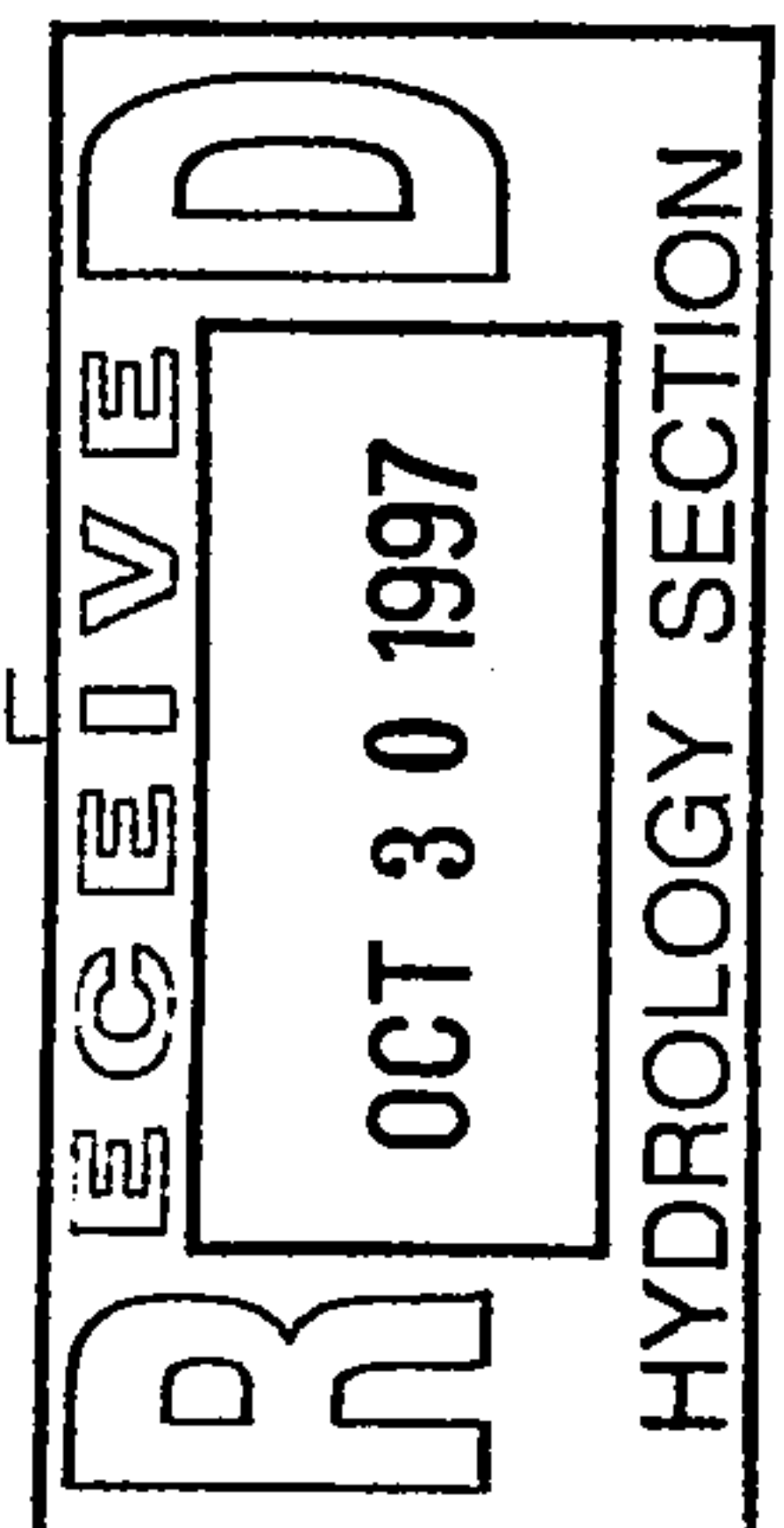
CHECK TYPE OF APPROVAL SOUGHT:

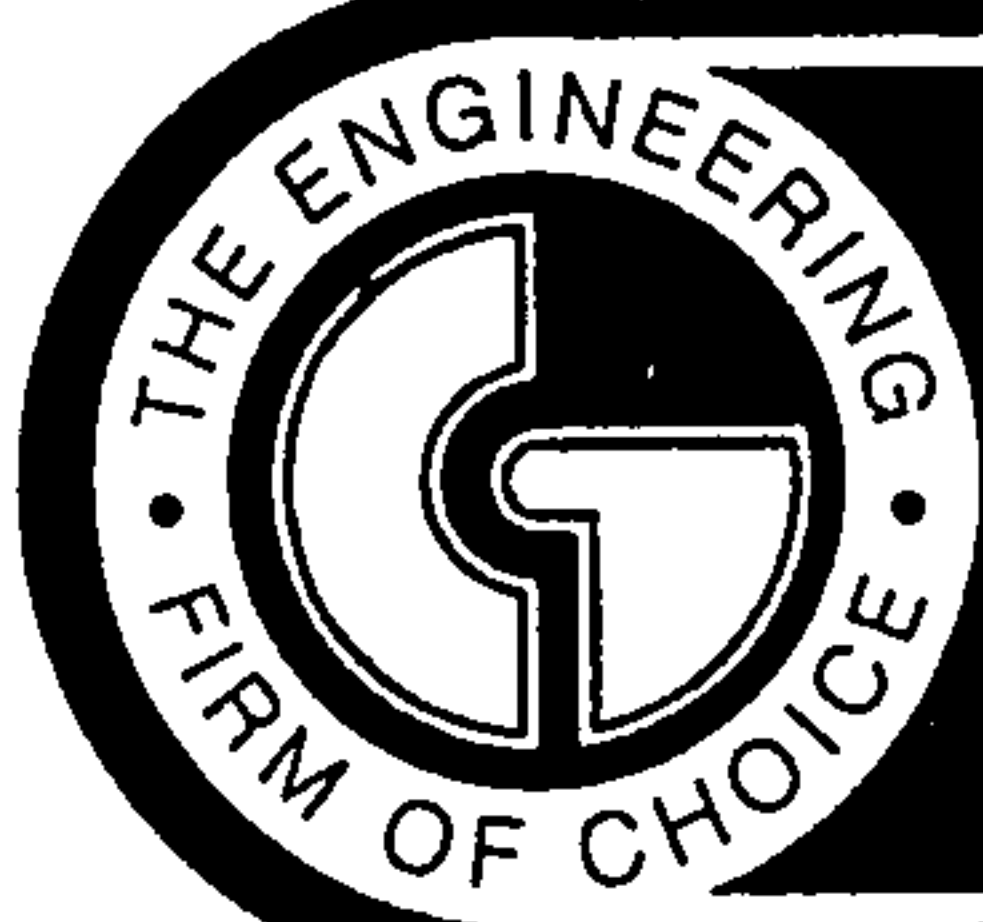
- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D. APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PRMT. APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
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- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ S.A.D. DRAINAGE REPORT
- ☐ DRAINAGE REQUIREMENTS
- ☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: OCTOBER 30, 1997

BY: JAMES ALARID E.I.

30 day Temp CO. issued on 10-30-97





CHAVEZ • GRIEVES

CONSULTING ENGINEERS, INC.

5639 JEFFERSON STREET NE • ALBUQUERQUE, NEW MEXICO 87109 • PHONE (505) 344-4080 • FAX (505) 343-8759

May 28, 1996

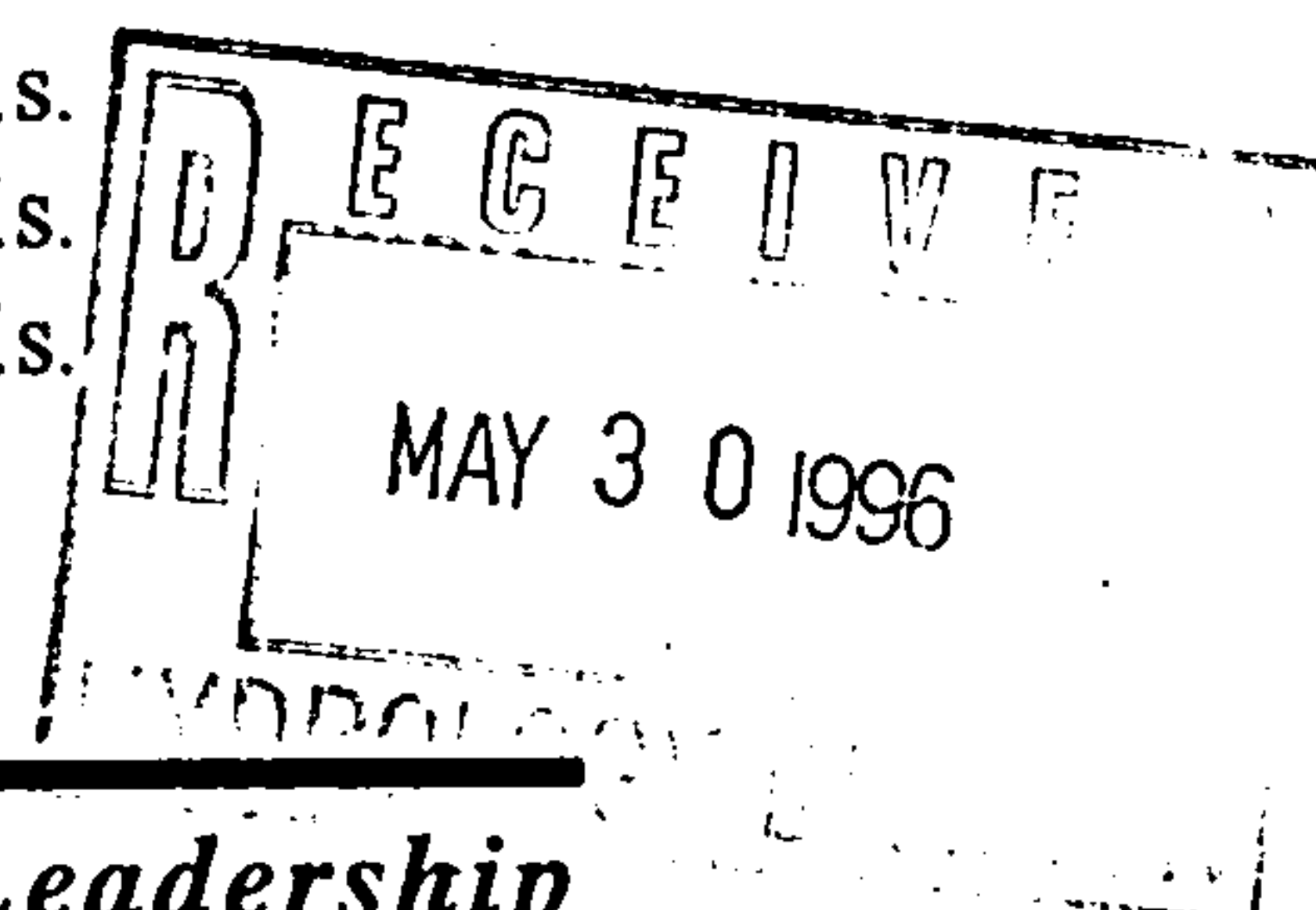
Lisa Ann Manwill
Engineering Assoc./Hyd.
City Hydrology
One Civic Plaza NW
Albuquerque, NM 87102

**RE: MTTC (L15-D31D) GRADING AND DRAINAGE PLAN SUBMITTAL
C&G PROJECT D06-115-5195**

Dear Ms. Manwill:

Transmitted herewith for review and approval is a grading and drainage plan revised per your comments dated 5/28/96. Your comments are addressed as follows:

1. The bench mark information is provided on the plan.
2. The finished floor information for existing Building 3 is indicated on the plan.
3. Sheet C3 Civil Details is provided for review.
4. Rim and invert elevations are indicated at all inlets.
5. The capacity calculations included with this letter are for the proposed 4, 6, and 8-inch diameter storm drains. The 8-inch diameter line will tie into an existing private system.
6. The sidewalk culvert is under a public sidewalk. The required notes for a SO #19 permit are on the plan.
7. All available street names are on the plan, but the name of the street adjacent to the north side of the property is not available.
8. The flows to the three discharge points are as follows:
 1. Discharge form sidewalk culvert $Q_{100} = 4.22$ c.f.s.
 2. Discharge to 8" storm drain $Q_{100} = 2.56$ c.f.s.
 3. Discharge to Bradbury Drive $Q_{100} = 2.50$ c.f.s.



Celebrating 15 Years of Engineering Leadership

PIPE CAPACITIES

ORIFICE EQUATION $Q = 0.6 A (2GH)^{1/2}$

BASIN D 8" PVC

$$Q = 0.6 (0.3491) (2 * 32.2 * 1.42)^{1/2}$$

$$Q = 2.00 \text{ cfs}$$

$$Q_{\text{CAPACITY}} = 2.00 \text{ cfs}$$

BASIN C-2 6" PVC

$$Q = 0.6 (0.196) (2 * 32.2 * 3.0)^{1/2}$$

$$Q = 1.63 \text{ cfs}$$

$$Q_{\text{CAPACITY}} = 1.63 \text{ cfs}$$

BASIN C-2 4" PVC

$$Q = 0.6 (0.0873) (2 * 32.2 * 0.83)^{1/2}$$

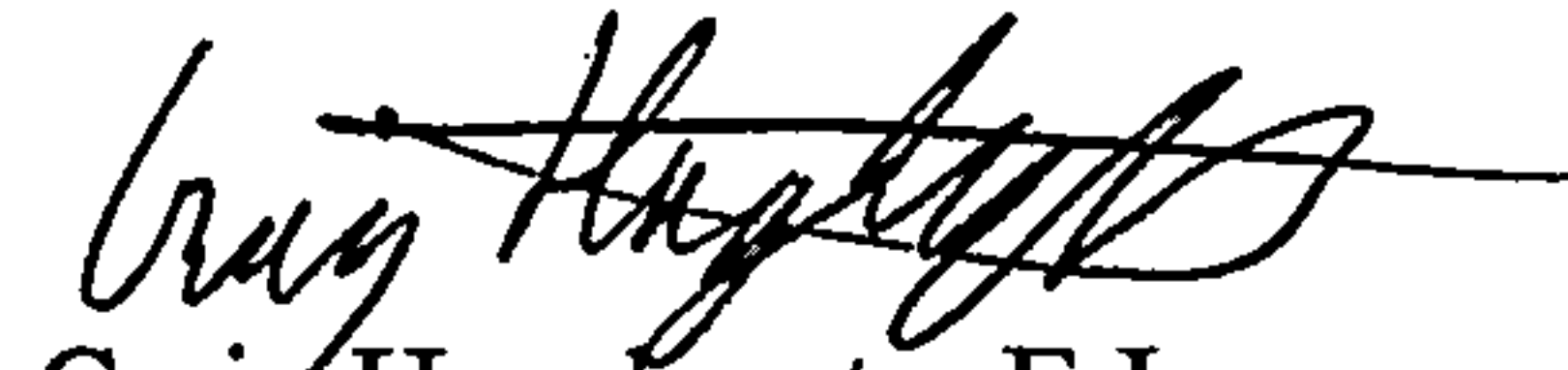
$$Q = 0.38 \text{ cfs}$$

$$Q_{\text{CAPACITY}} = 0.38 \text{ cfs}$$

If you have any questions or wish to discuss this in more detail, please call me.

Sincerely,

CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC.



Craig Hagelgantz, E.I.

CH/cjr

Attachments

SIDE WALK CULVERT

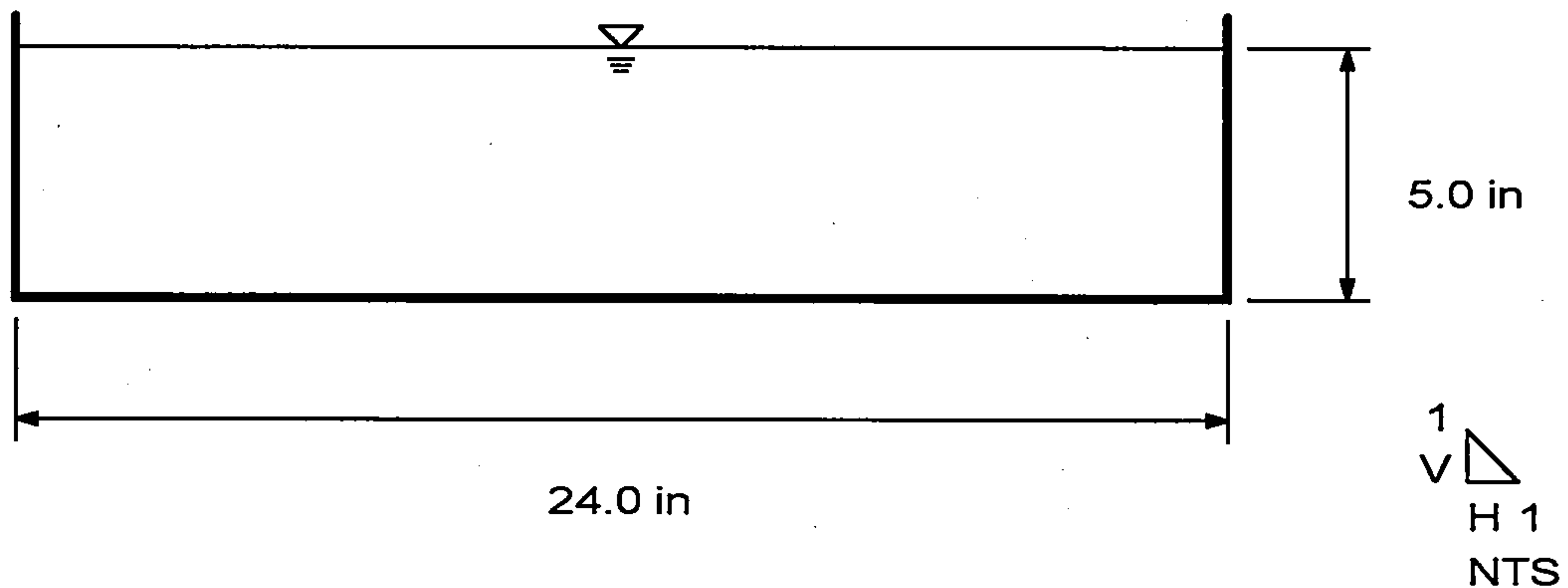
Cross Section for Rectangular Channel

Project Description	
Project File	untitled.fm2
Worksheet	MTTC
Flow Element	Rectangular Channel
Method	Manning's Formula
Solve For	Discharge

Section Data	
Mannings Coefficient	0.013
Channel Slope	0.010000 ft/ft
Depth	5.0 in
Bottom Width	24.0 in
Discharge	4.21 cfs

$$Q = \frac{1.49}{0.013} \sqrt{0.01} (6.833) (2941)^{2/3}$$

$$= 4.22 \text{ cfs}$$





CITY OF
Albuquerque

May 28, 1996

Martin J. Chávez, Mayor

Joe Kelley, PE
Chavez-Grieves
5639 Jefferson NE
Albuquerque, NM 87109

RE: MTTC (L15-D31D) GRADING AND DRAINAGE PLAN SUBMITTAL FOR SITE DEVELOPMENT PLAN FOR BUILDING PERMIT, FOUNDATION PERMIT, BUILDING PERMIT, GRADING PERMIT, AND PAVING PERMIT APPROVALS. ENGINEER'S STAMP DATED APRIL 26, 1996.

Dear Mr. Kelly

Based on the information provided on your May 2, 1996 submittal, the above referenced project is approved for Site Development Plan for Building Permit only. Please address the following comments with your next submittal:

1. Provide bench mark information on the plan sheet.
2. What is the finish floor of the existing Building 3?
3. Provide sheet C3 for review.
4. Provide rim and invert elevations at all inlets.
5. Please provide capacity calculations for your 4-inch and 8-inch diameter storm drains. Does the 8-inch diameter line tie into an existing, private system?
6. Is the side walk culvert below a public sidewalk? If so, a SO #19 permit will be required.
7. Label all streets.
8. Please describe how much flow is directed to each discharge point.

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,


Lisa Ann Manwill

Engineering Assoc./Hyd.

c: Andrew Garcia
File

Good for You, Albuquerque!



DRAINAGE INFORMATION

PROJECT TITLE: MTTC ZONE ATLAS/DRNG. FILE #: L-15-Z / 4315

DRB#: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: Tracts 1C, University Center Phase 1.

CITY ADDRESS: 801 University SE

ENGINEERING FIRM: Chavez-Grieves

CONTACT: Joe Kelley, P.E.

ADDRESS: 5639 Jefferson NE

PHONE: 344-4080

OWNER: DCSW

CONTACT: David Palcios

ADDRESS: 105 4TH STREET SW

PHONE: 843-9639

ARCHITECT: N/A

CONTACT: _____

ADDRESS: _____

PHONE: _____

SURVEYOR: N/A

CONTACT: _____

ADDRESS: _____

PHONE: _____

CONTRACTOR: _____

CONTACT: _____

ADDRESS: _____

PHONE: _____

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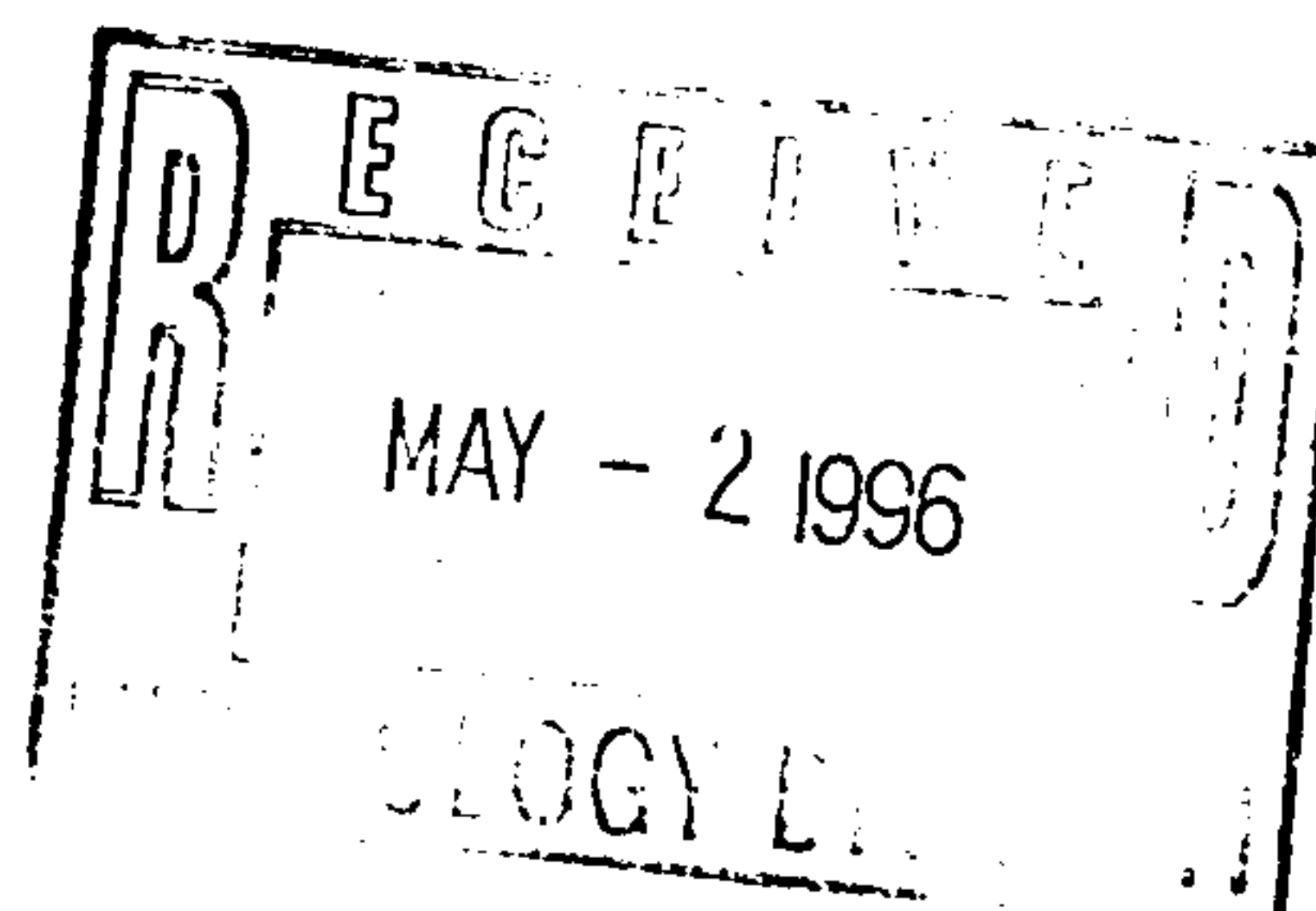
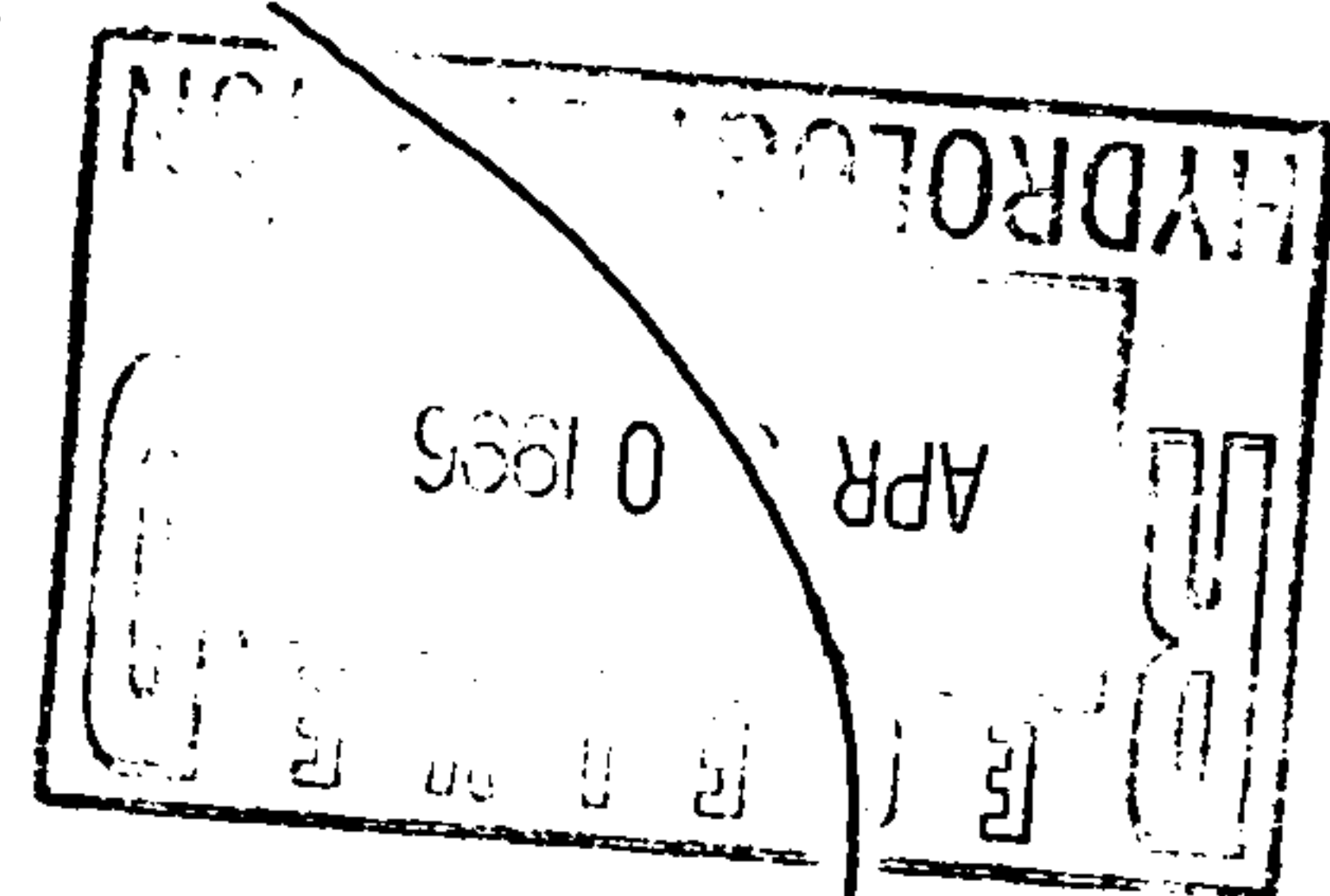
- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

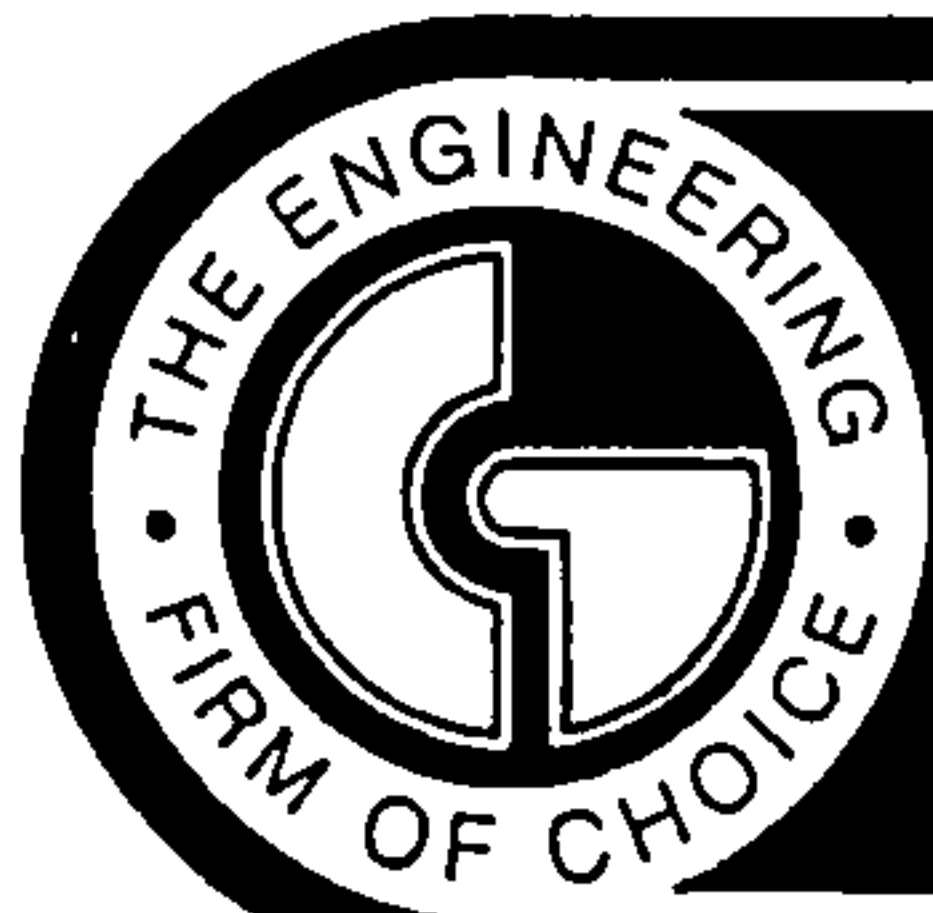
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- ☐ S.A.D. DRAINAGE REPORT
- ☐ DRAINAGE REQUIREMENTS
- ☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: April 29, 1996

BY: Craig Hagelgantz EI





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CONSULTING ENGINEERS, INC.

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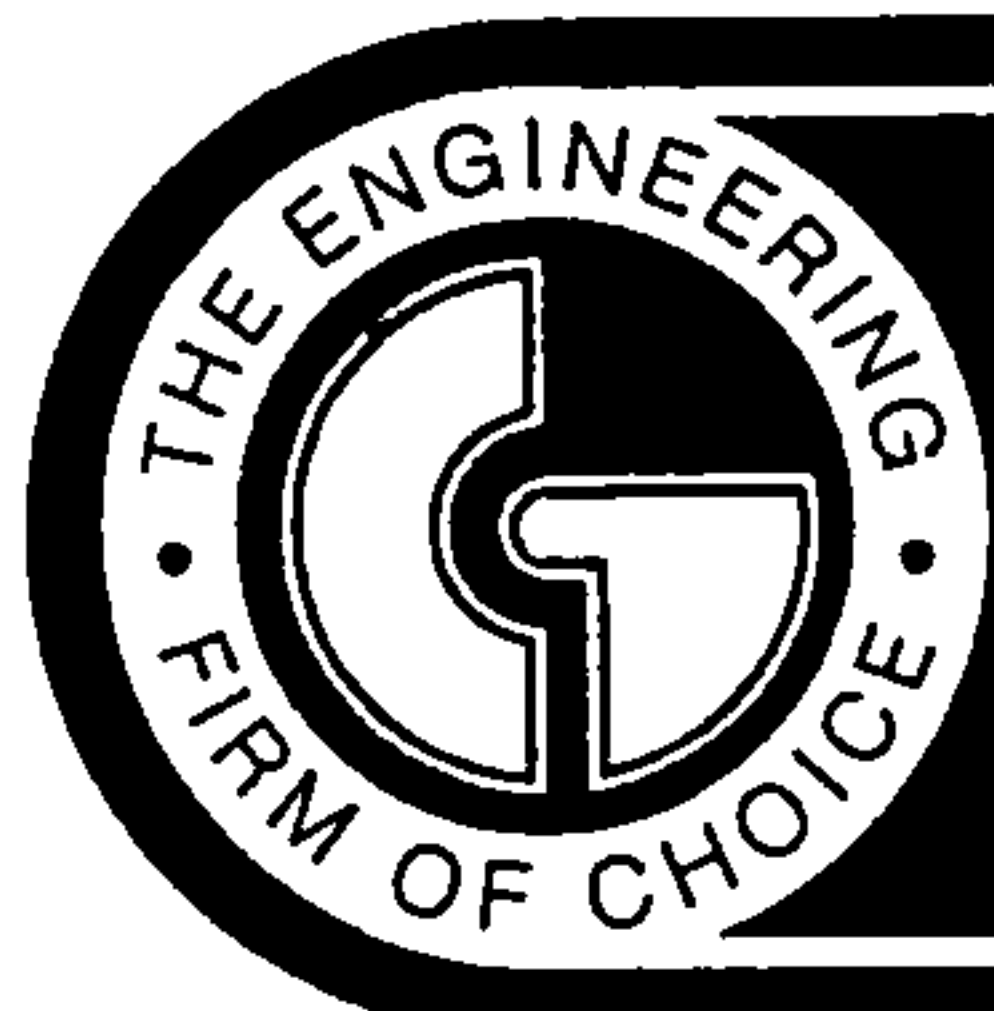
GRADING AND DRAINAGE PLAN

FOR

MTTC

ALBUQUERQUE, NEW MEXICO

APRIL, 1996



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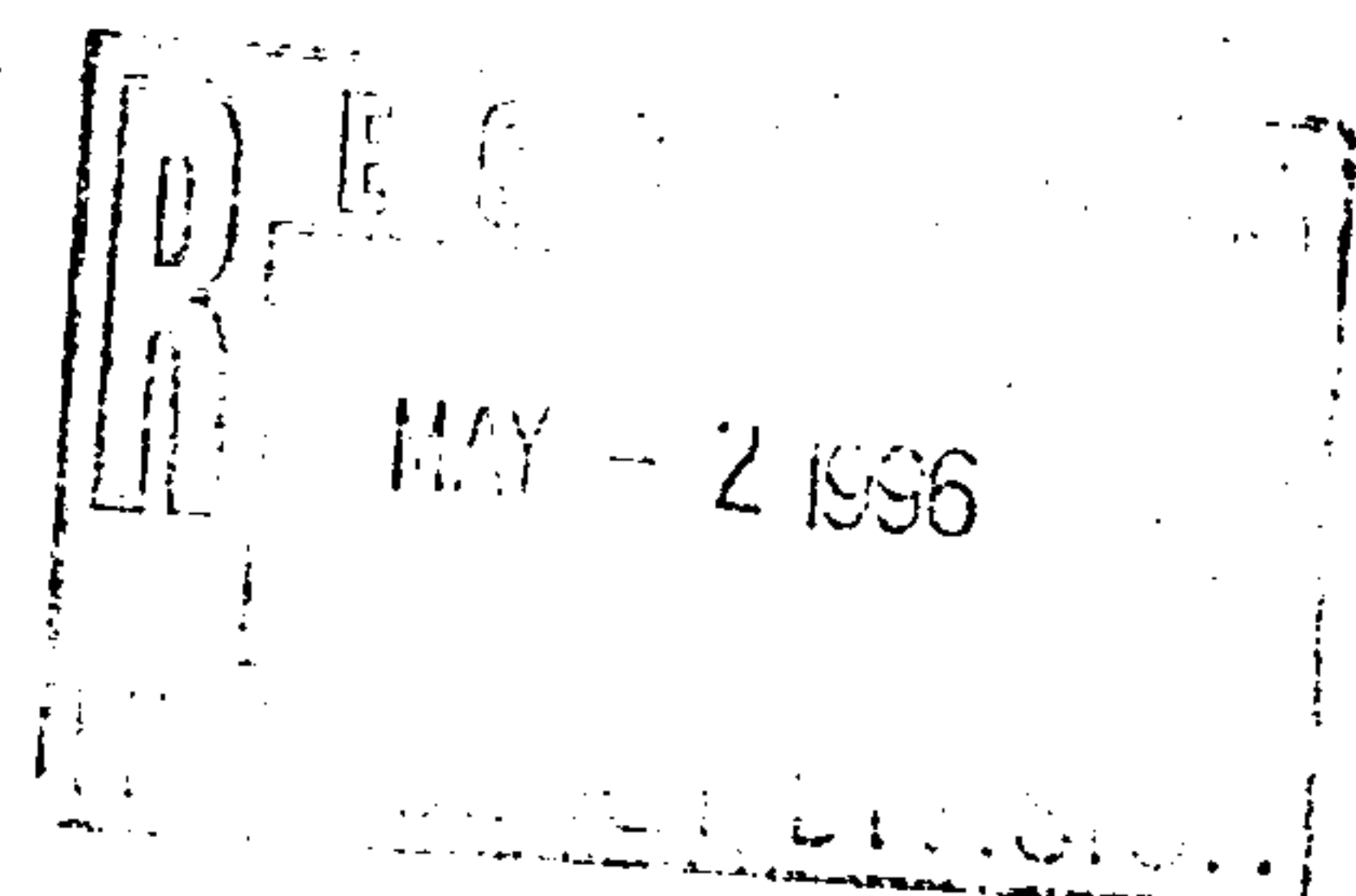
GRADING AND DRAINAGE PLAN

FOR
MTTC

ALBUQUERQUE, NEW MEXICO



APRIL, 1996



LOCATION

This site is located on the northwest corner of the University Boulevard, SE, and Stadium Boulevard, SE, intersection.

LEGAL DESCRIPTION

Tracts 1C, University Center Phase 1, filed April 20, 1990, in Vol 90C-119

ZONING AND SURROUNDING DEVELOPMENT

The site is zoned SU-1 for a Planned Development Area (PDA), with permissive uses in the O-1, C-2 and IP Zones. The property is located within the University Center/South Campus Master Development Plan. The paved surfaces of fully-developed city streets abut the site on the north side. Buildings, paving, and landscaping abut the east, west, and south sides of the site. The site is located within a developed university campus.

FLOOD HAZARD ZONES

As shown by Panel 3500020008 of the National Flood Insurance Rate Maps for the City of Albuquerque, dated September 15, 1994, the site is not in a designated flood hazard zone.

RELATED REPORTS AND SUBMITTALS

Ultimate runoff from this site was addressed in a drainage report date 9/9/96, entitled Storm Drain Design Report for University Center Research Park, Phase 1B. According to that report, the site may discharge 9.54 cfs into the adjacent roads. The storm drain system that was designed in conjunction with that report is now in place.

EXISTING SITE CONDITIONS AND DRAINAGE PATTERN

The site is within an existing university campus. The surrounding area consist of nearly all roof and pavement surfaces with portions of landscaping, while the site itself is undeveloped natural ground. Basins C-2 and B slope to the north and west at about 5% and discharge directly into the paved surfaces of existing access roads. Runoff from these paved surfaces is conveyed thru existing storm drains to AMAFCA'S South Diversion Channel. Off-site flows are directed around the site into adjacent roads, or are discharged into existing off-site storm drains.

PROPOSED SITE CONDITIONS AND DRAINAGE PATTERN

The proposed improvements consist of a new building with associated sidewalks and landscaping in a developed area on University property. As desired, 9.28 cfs will be discharged into the adjacent roads and ultimately into the channel. The discharge and drainage pattern is in accordance with the approved report for this site.

HYDROLOGY/HYDRAULICS

The runoff calculations and design have been done in accordance with Section 22.2 of the Development Process Manual of the City of Albuquerque, January 1993.

RUNOFF CALCULATIONS - SIMPLIFIED PROCEDURE

By: CRAIG HAGELGANTZ
Project: MTTC

Date: April 26, 1996
Zone Atlas: L-15-Z

This procedure is in accordance with the City of Albuquerque Development Process Manual, Volume 2, Section 22.2, "Hydrology", peak discharge rate for small watersheds less than forty acres in size.

Precipitation Zone from Figure A-1: 2
Land treatment descriptions are in Table A-4.

1. RUNOFF RATE COMPUTATION

Use Equation a-10: $Q_p = Q_{PA} A_A + Q_{PB} A_B + Q_{PC} A_C + Q_{PD} A_D$

Values of Q_{pi} are from Table A-9, and are in CFS/acre. Area values are in acres.

BASIN	Q_{PA}	A_A	Q_{PB}	A_B	Q_{PC}	A_C	Q_{PD}	A_D	Q_p
EXISTING BASIN RATE OF RUNOFF (CFS)									
B	1.56	--	2.28	--	3.14	0.60	4.70	0.60	4.70
C-2	1.56	--	2.28	--	3.14	0.95	4.70	0.05	3.22
DEVELOPED BASIN RATE OF RUNOFF (CFS)									
B	1.56	--	2.28	0.24	3.14	--	4.70	0.96	5.06
C-2	1.56	--	2.28	0.20	3.14	--	4.70	0.80	4.22

} 7.92

} 9.28

2. RUNOFF VOLUME COMPUTATION

Use Equation a-5 to compute weighted excess precipitation:

$$\text{Weighted } E = "E" = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / (A_A + A_B + A_C + A_D)$$

$$(A_A + A_B + A_C + A_D) = \sum A_i$$

Use Equation a-6 to compute the volume:

$$V_{360} = "E" \times (A_A + A_B + A_C + A_D) \times 3630 \text{ feet}^3/\text{acre} \cdot \text{inch}$$

Values of E_i are from Table A-8, and are in inches. Area values are in acres.

[illegible]



Martin J. Chávez, Mayor

Joe Kelley, PE
Chavez-Grieves
5639 Jefferson NE
Albuquerque, NM 87109

**RE: MTTC (L15-D31D) GRADING AND DRAINAGE PLAN SUBMITTAL FOR SITE
DEVELOPMENT PLAN FOR BUILDING PERMIT, BUILDING PERMIT, AND SO #19
PERMIT APPROVALS. ENGINEER'S STAMP DATED MAY 29, 1996.**

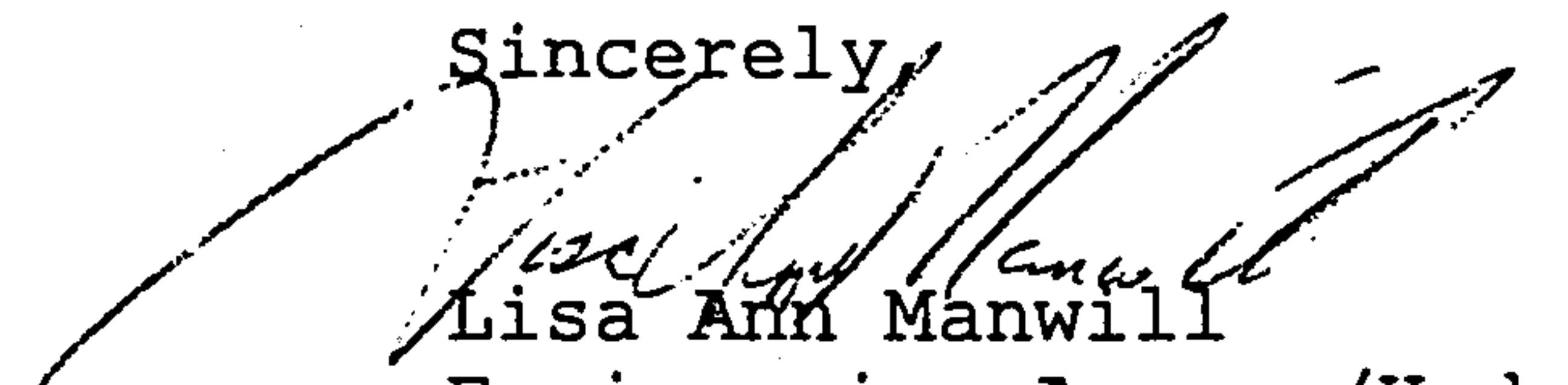
Dear Mr. Kelly

Based on the information provided on your May 30, 1996 submittal, the above referenced project is approved for Site Development Plan for Building Permit, Building Permit, and SO #19 Permit.

Prior to Certificate of Occupancy, an Engineer's Certification will be required.

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,

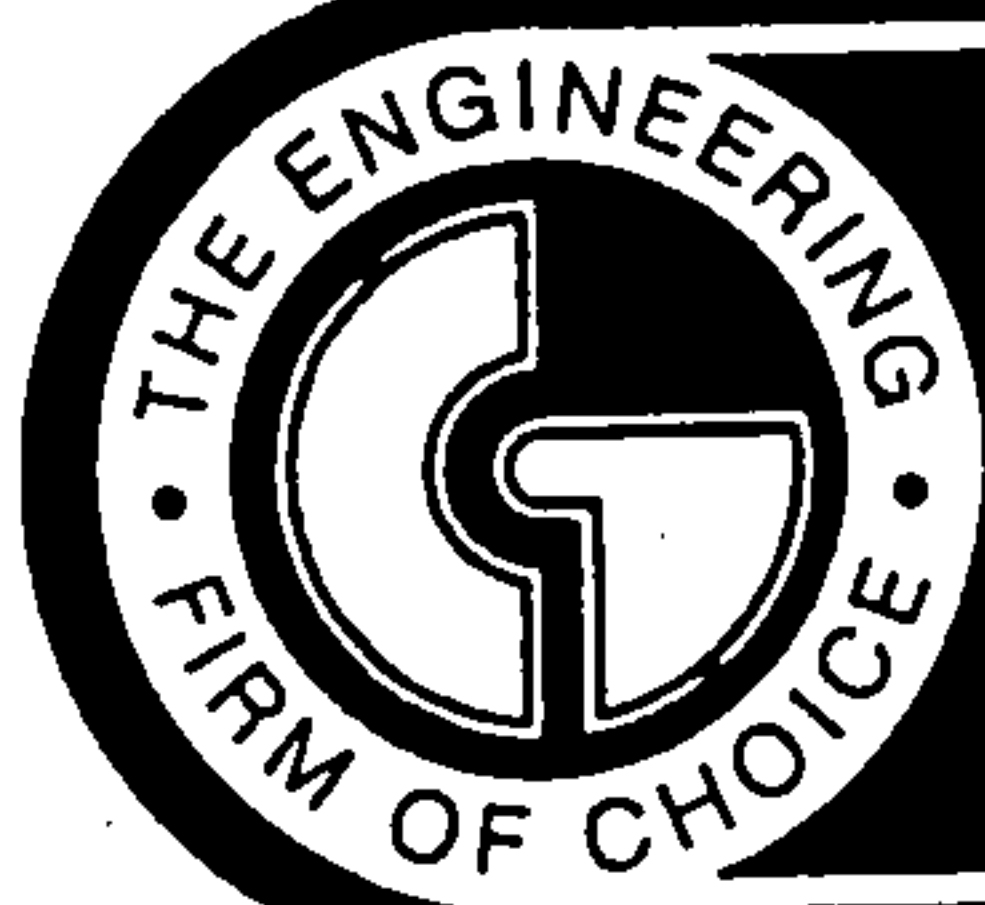


Lisa Ann Manwill
Engineering Assoc./Hyd.

c: Arlene Portillo
Andrew Garcia
File

Good for You, Albuquerque!





CHAVEZ • GRIEVES CONSULTING ENGINEERS, INC.

5639 JEFFERSON STREET NE • ALBUQUERQUE, NEW MEXICO 87109 • PHONE (505) 344-4080 • FAX (505) 343-8759

LETTER OF TRANSMITTAL

TO: C.O.A. HYDROLOGY DATE: 5/30/96
CIVIL Plaza JOB # 006-115-5195
CITY HALL RE: MTTC
ATTN: DOLORES DRAINAGE REPORT

WE ARE SENDING YOU ☒ ATTACHED ☐ UNDER SEPARATE COVER, THE FOLLOWING ITEMS:

☐ SHOP DRAWINGS ☐ PLANS ☐ SPECIFICATIONS ☐ DISKETTE
☐ CHANGE ORDER ☐ PRINTS ☐ CALCULATIONS ☐ PROPOSAL INFO
☐ COPY OF LETTER ☐ SAMPLES ☒ REPORT

COPIES	DATE	NO.	DESCRIPTION
<u>1</u>	<u>5/30/96</u>		<u>DRAINAGE Report MTTC</u>

THESE ARE TRANSMITTED AS CHECKED BELOW:

☐ FOR YOUR USE ☒ FOR REVIEW & COMMENT
☐ AS REQUESTED ☐ RETURNED AFTER LOAN TO US
☐ PLEASE CORRECT AND RESUBMIT ☐ SUBMIT COPIES FOR DISTRIBUTION
☐ RESUBMITTAL IS NOT REQUIRED ☐ RETURN CORRECTED PRINTS
CORRECTIONS, IF ANY, ARE NOTED ☐ BIDS/PROPOSALS DUE 199

REMARKS: Any Questions please call me

CRAIG HAGELGANTZ

COPIES TO: FILE

SIGNED: [Signature]

DRAINAGE INFORMATION

PROJECT TITLE: MTTC ZONE ATLAS/DRNG. FILE #: L-15-Z / 14310
DRB#: 96-184 EPC #: _____ WORK ORDER #: _____
LEGAL DESCRIPTION: Tracts 1D, University Center Phase 1,
CITY ADDRESS: 801 University SE
ENGINEERING FIRM: Chavez-Grieves CONTACT: Joe Kelley, P.E.
ADDRESS: 5639 Jefferson NE PHONE: 344-4080
OWNER: DCSW CONTACT: David Palcios
ADDRESS: 105 4TH STREET SW PHONE: 843-9639
ARCHITECT: N/A CONTACT: _____
ADDRESS: _____ PHONE: _____
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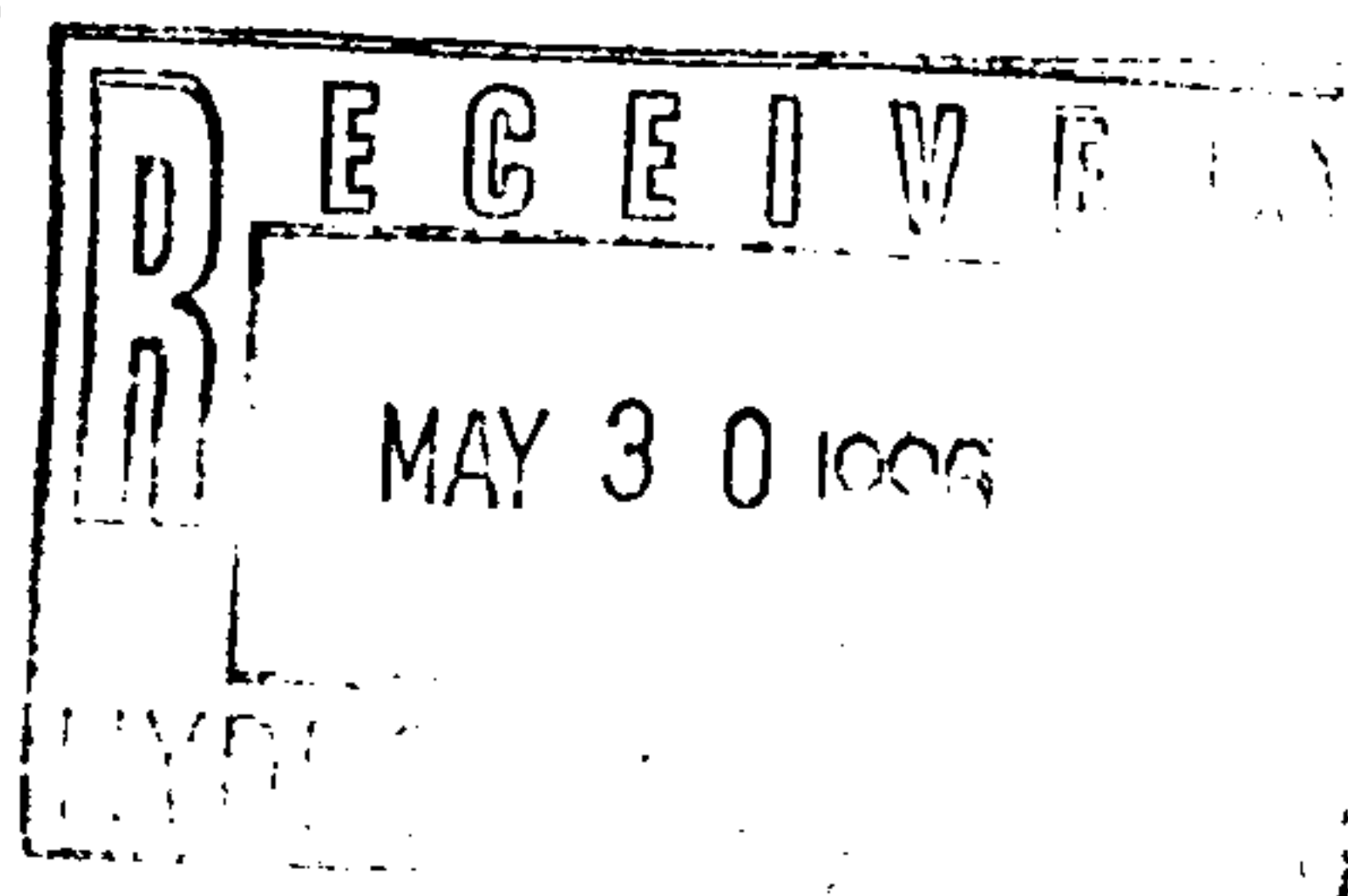
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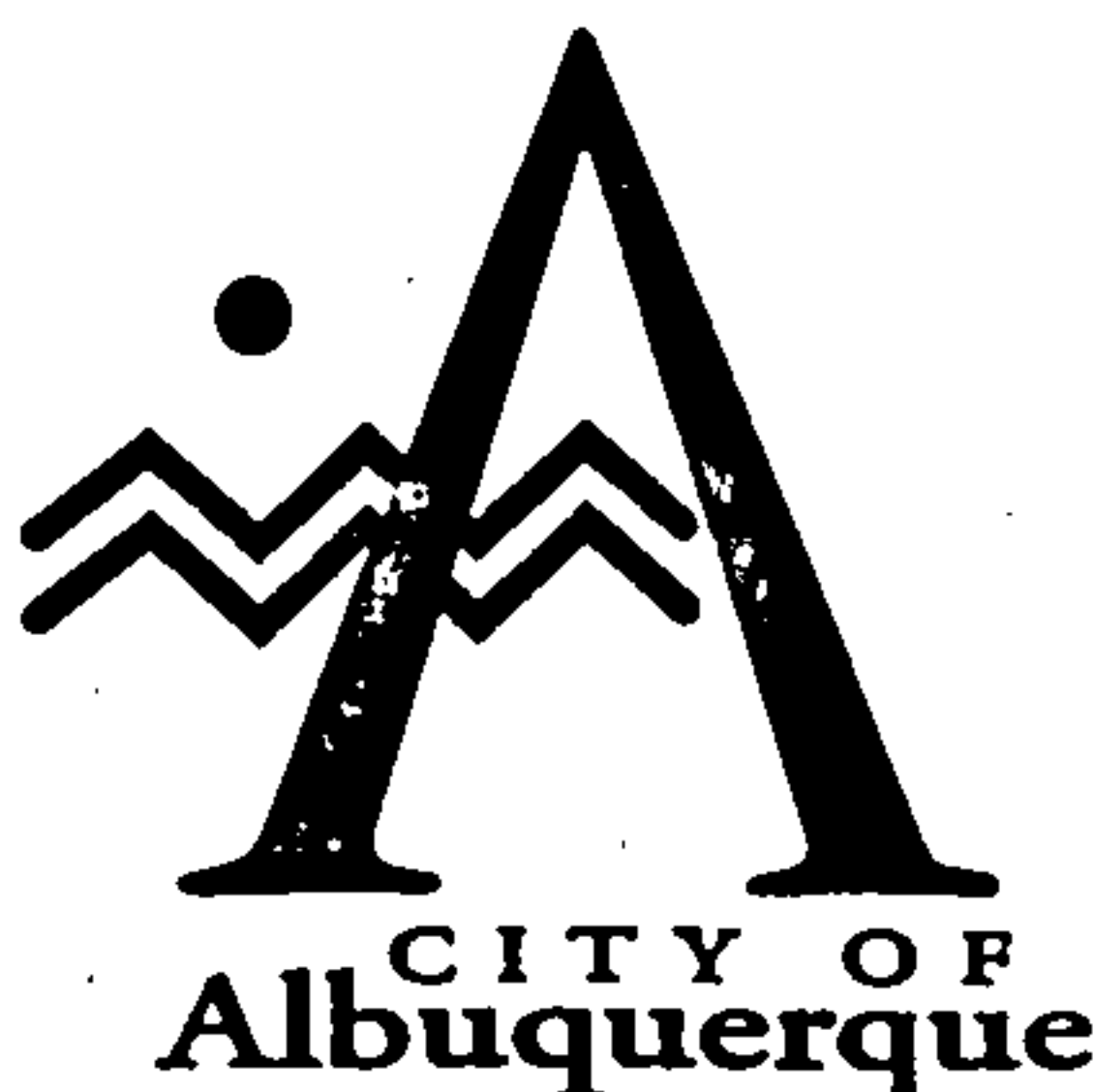
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☐ DRAINAGE REQUIREMENTS
☒ OTHER SO#19

DATE SUBMITTED: May 29, 1996

BY: Craig Hagelgantz EI





May 28, 1996

Martin J. Chávez, Mayor

Joe Kelley, PE
Chavez-Grieves
5639 Jefferson NE
Albuquerque, NM 87109

RE: MTTC (L15-D31D) GRADING AND DRAINAGE PLAN SUBMITTAL FOR SITE DEVELOPMENT PLAN FOR BUILDING PERMIT, FOUNDATION PERMIT, BUILDING PERMIT, GRADING PERMIT, AND PAVING PERMIT APPROVALS. ENGINEER'S STAMP DATED APRIL 26, 1996.

Dear Mr. Kelly

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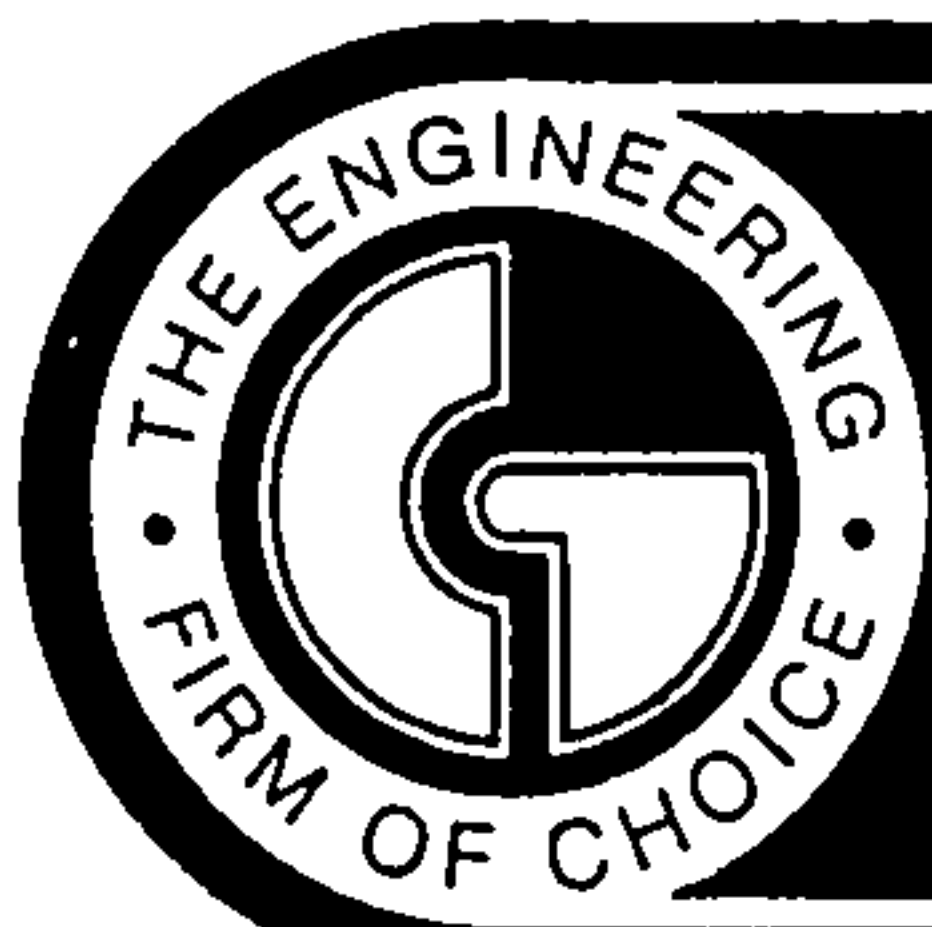

Lisa Ann Manwill

Engineering Assoc./Hyd.

c: Andrew Garcia
File

Good for You, Albuquerque!





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GRADING AND DRAINAGE PLAN

FOR

MTTC

ALBUQUERQUE, NEW MEXICO

APRIL, 1996



Martin J. Chávez, Mayor

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Chavez-Grieves
5639 Jefferson NE
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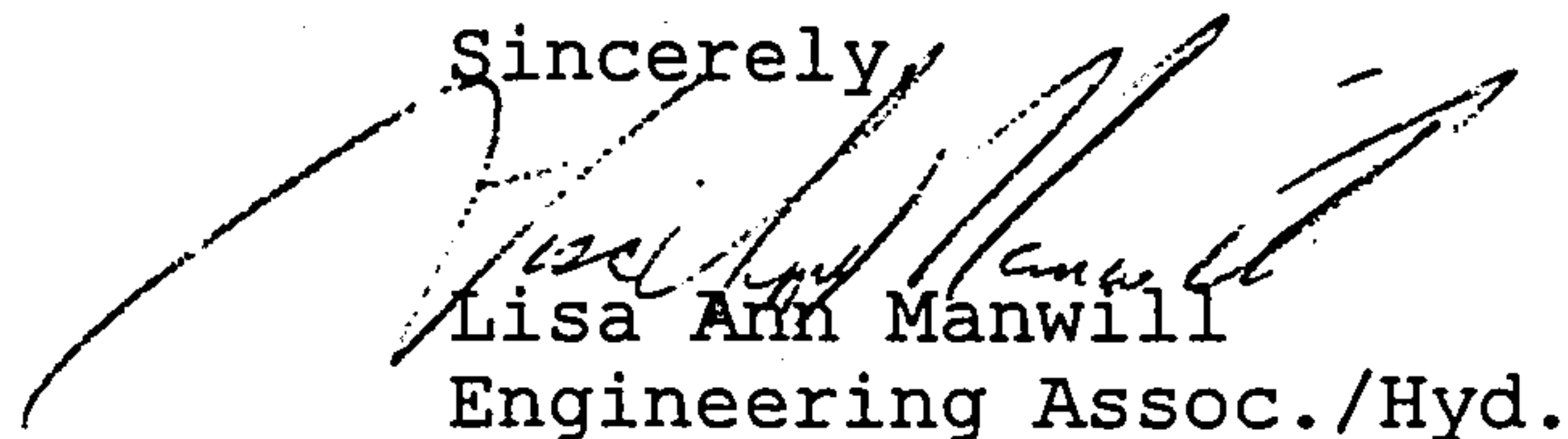
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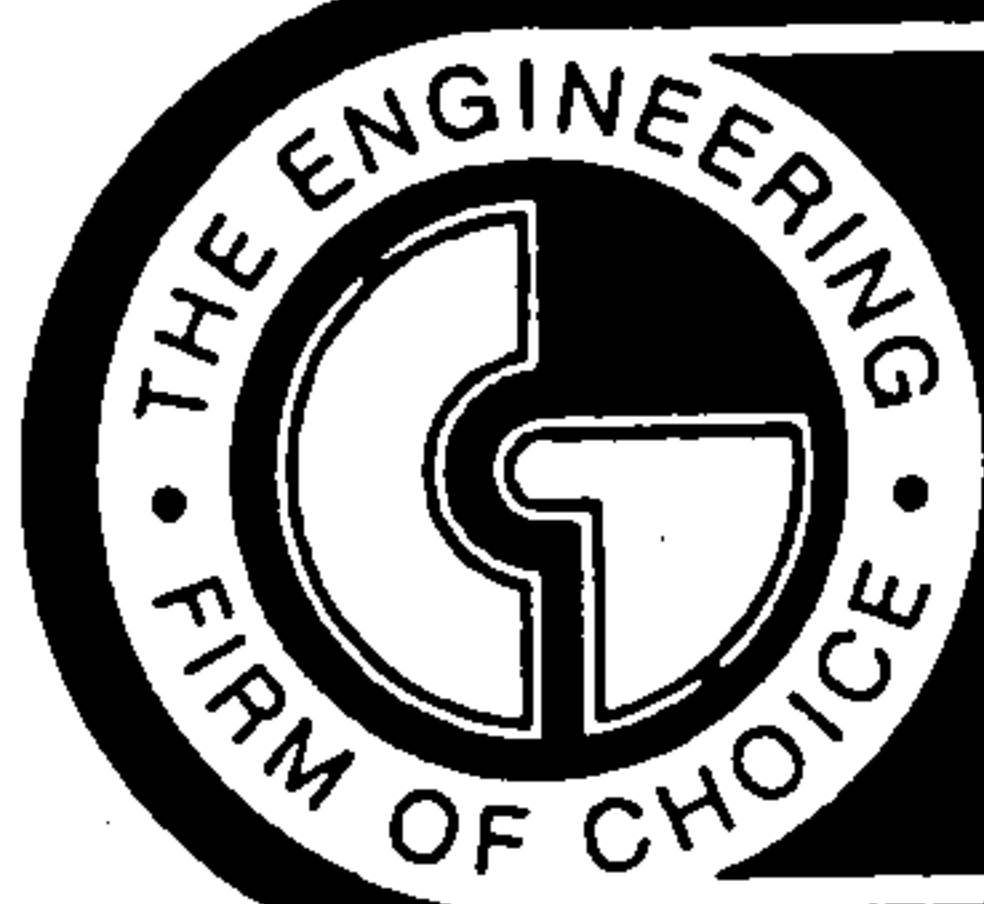


Lisa Ann Manwill
Engineering Assoc./Hyd.

c: Arlene Portillo
Andrew Garcia
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CONSULTING ENGINEERS, INC.

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<u>1</u>	<u>5/30/96</u>		<u>DRAINAGE Report MTTC</u>

THESE ARE TRANSMITTED AS CHECKED BELOW:

☐ FOR YOUR USE ☒ FOR REVIEW & COMMENT
☐ AS REQUESTED ☐ RETURNED AFTER LOAN TO US
☐ PLEASE CORRECT AND RESUBMIT ☐ SUBMIT COPIES FOR DISTRIBUTION
☐ RESUBMITTAL IS NOT REQUIRED ☐ RETURN CORRECTED PRINTS
CORRECTIONS, IF ANY, ARE NOTED ☐ BIDS/PROPOSALS DUE 199

REMARKS: Any Questions please call me

CRAIG HAGELGANITZ

COPIES TO: FILE

SIGNED: [Signature]

DRAINAGE INFORMATION

PROJECT TITLE: MTTC ZONE ATLAS/DRNG. FILE #: L-15-Z / 10310
DRB#: 96-184 EPC #: _____ WORK ORDER #: _____
LEGAL DESCRIPTION: Tracts 1D, University Center Phase 1,
CITY ADDRESS: 801 University SE
ENGINEERING FIRM: Chavez-Grieves CONTACT: Joe Kelley, P.E.
ADDRESS: 5639 Jefferson NE PHONE: 344-4080
OWNER: DCSW CONTACT: David Palcios
ADDRESS: 105 4TH STREET SW PHONE: 843-9639
ARCHITECT: N/A CONTACT: _____
ADDRESS: _____ PHONE: _____
SURVEYOR: N/A 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:

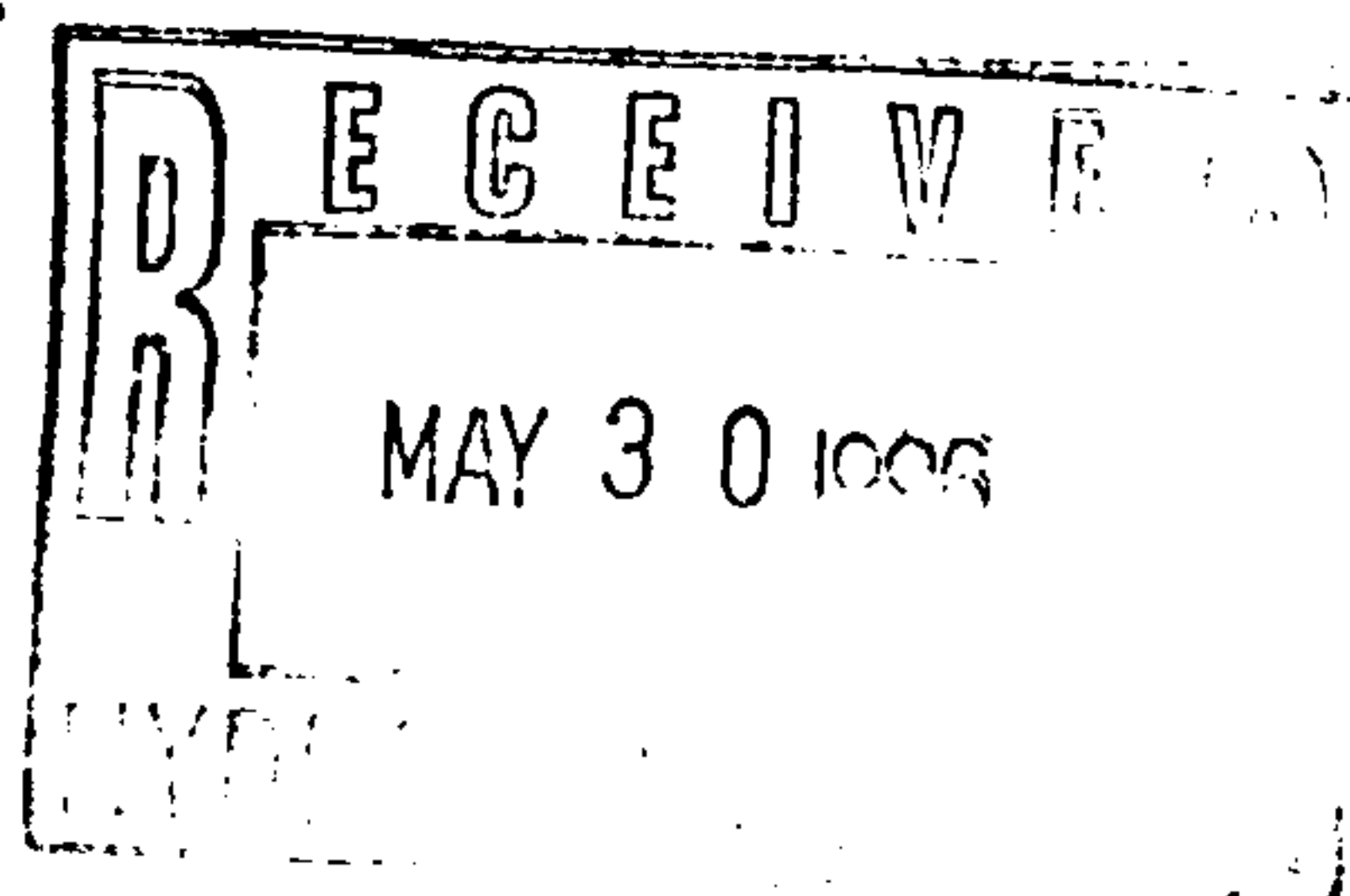
☐ YES
☒ NO
☐ COPY PROVIDED

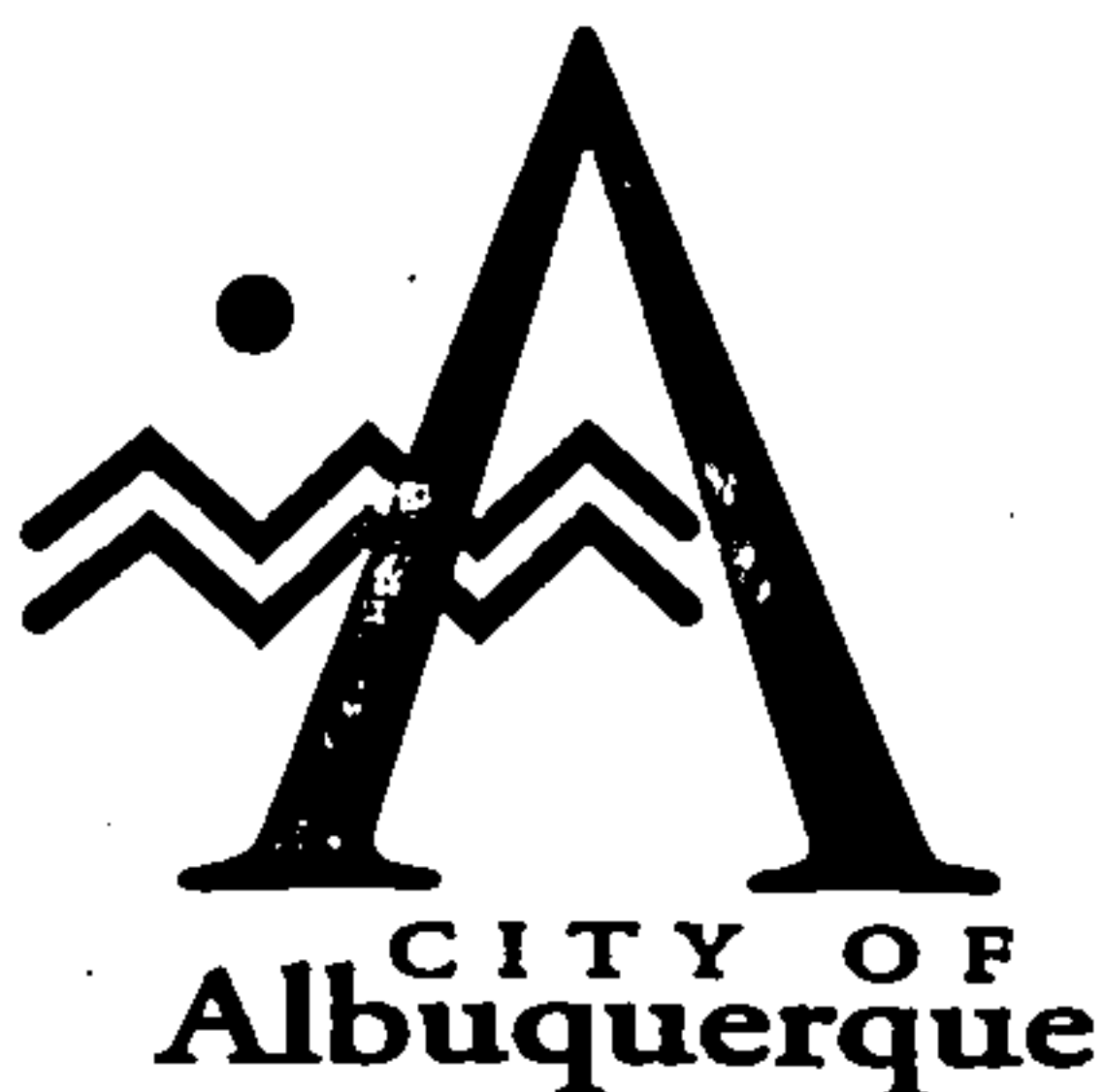
CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D. APPROVAL
☒ S. DEV. PLAN FOR BLDG. PRMT. 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 SO#19

DATE SUBMITTED: May 29, 1996

BY: Craig Hagelgantz EI





May 28, 1996

Martin J. Chávez, Mayor

Joe Kelley, PE
Chavez-Grieves
5639 Jefferson NE
Albuquerque, NM 87109

RE: MTTC (L15-D31D) GRADING AND DRAINAGE PLAN SUBMITTAL FOR SITE DEVELOPMENT PLAN FOR BUILDING PERMIT, FOUNDATION PERMIT, BUILDING PERMIT, GRADING PERMIT, AND PAVING PERMIT APPROVALS. ENGINEER'S STAMP DATED APRIL 26, 1996.

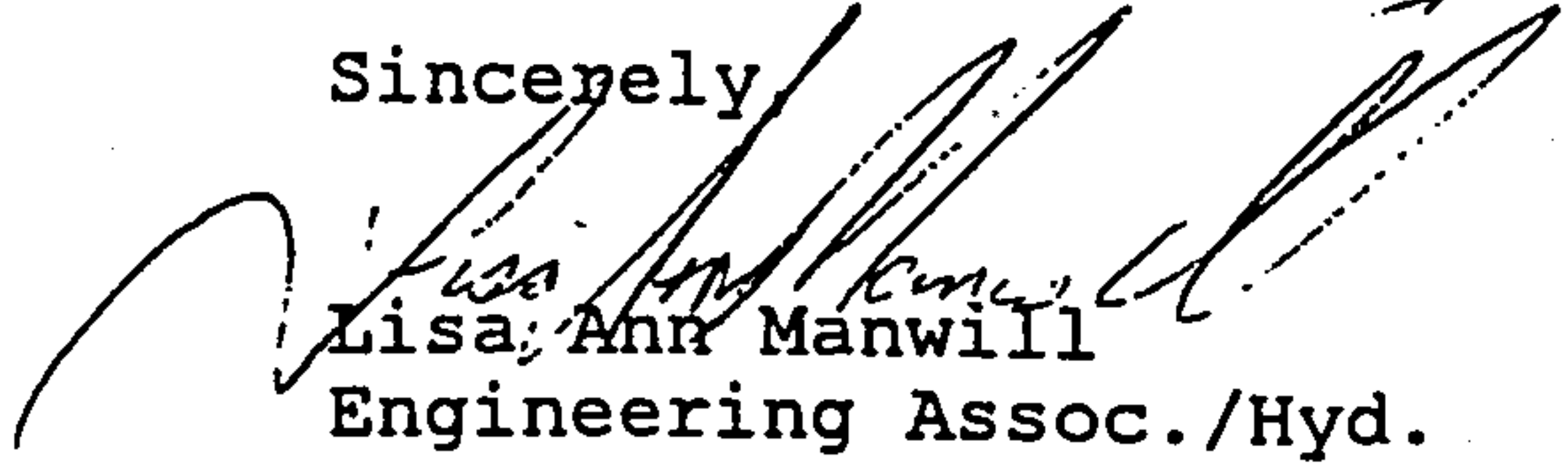
Dear Mr. Kelly

Based on the information provided on your May 2, 1996 submittal, the above referenced project is approved for Site Development Plan for Building Permit only. Please address the following comments with your next submittal:

1. Provide bench mark information on the plan sheet.
2. What is the finish floor of the existing Building 3?
3. Provide sheet C3 for review.
4. Provide rim and invert elevations at all inlets.
5. Please provide capacity calculations for your 4-inch and 8-inch diameter storm drains. Does the 8-inch diameter line tie into an existing, private system?
6. Is the side walk culvert below a public sidewalk? If so, a SO #19 permit will be required.
7. Label all streets.
8. Please describe how much flow is directed to each discharge point.

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,


Lisa Ann Manwill
Engineering Assoc./Hyd.

c: Andrew Garcia
File

Good for You, Albuquerque!

