



Martin J. Chávez, Mayor

Robert E. Gurulé, Director

Clint Dodge PE
Leedshill - Herkenhoff
P.O. Box 1293
Albuquerque, New Mexico 87103

RE: ENGINEER CERTIFICATION FOR THE FOURTH STREET DEALERSHIP
(G14-D59) CERTIFICATION STATEMENT DATED 6/18/97

Dear Mr. Dodge:

Based on the information provided on your June 2, 1997 resubmittal, 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

A handwritten signature in cursive script that reads 'Bernie J. Montoya'.

Bernie J. Montoya CE
Associate Engineer

Good for You, Albuquerque!

P.O. Box 1293, Albuquerque, New Mexico 87103



DRAINAGE INFORMATION SHEET

PROJECT TITLE: Fourth Street Dealership ZONE ATLAS/DRNG. FILE #: G-14-Z / D59

DRB: N/A EPC #: N/A WORK ORDER #: N/A

LEGAL DESCRIPTION: Tracts "8J, 8K and 8N" as shown on the M.R.G.C.D. Property Map No. 33, City of Albuquerque, Bernalillo County, New Mexico

CITY ADDRESS: 4700 Fourth Street N.W.

ENGINEERING FIRM: Leedshill-Herkenhoff, Inc.

CONTACT: Clint Dodge, P.E.

ADDRESS: 500 Copper Ave. N.W., P.O. Box 1217

PHONE: (505) 247-0294

OWNER: Ugly Duckling Corporation

CONTACT: _____

ADDRESS: _____

PHONE: (602) 852-6606

ARCHITECT: Leedshill-Herkenhoff, Inc.

CONTACT: Janet Sowell

ADDRESS: 500 Copper Ave. N.W., P.O. Box 1217

PHONE: (505) 247-0294

SURVEYOR: Wayjohn Surveying, Inc.

CONTACT: Wayne E. Johnston, P.S.

ADDRESS: 330 Louisiana N.E., Alb., N.M. 87108

PHONE: (505) 255-2052

CONTRACTOR: Gearcon, Inc.

CONTACT: Art Logan-Condron

ADDRESS: 630 Louisiana S.E.

PHONE: (505) 265-8461

TYPE OF SUBMITTAL:

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

PRE-DESIGN MEETING:

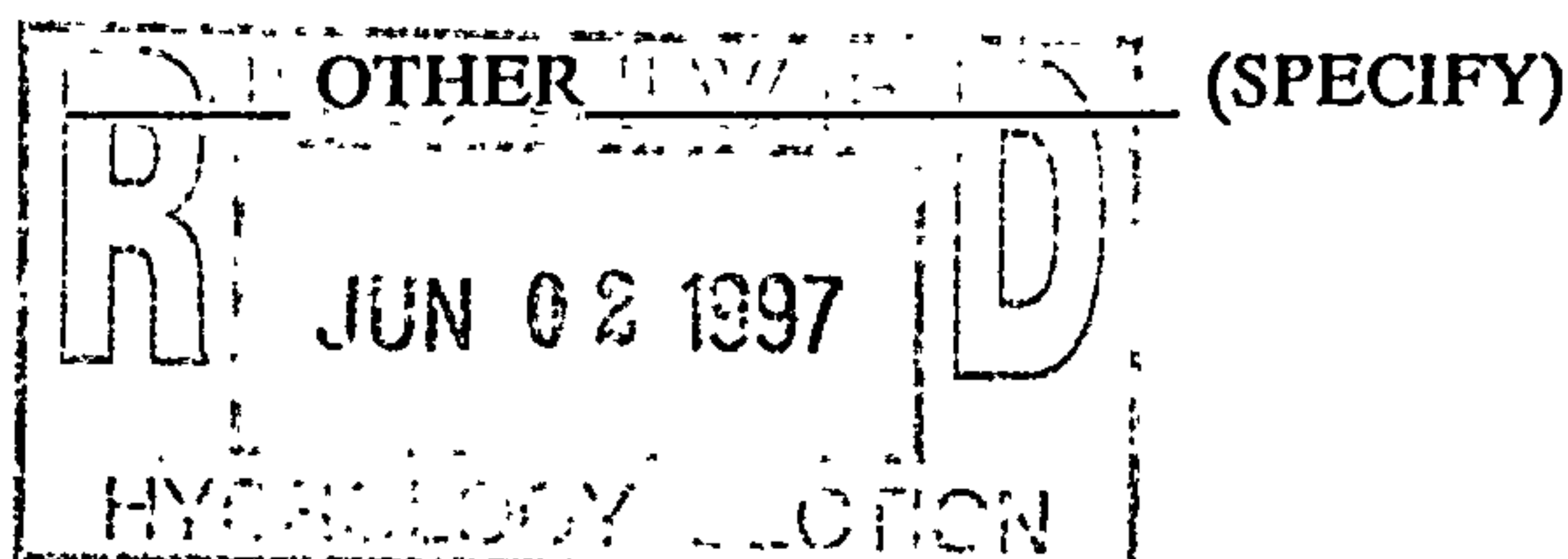
- ☒ YES
☐ NO
☒ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

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

DATE SUBMITTED: JUNE 2
April 24, 1997

BY: 



G:\DATA\PROJECTS\DUCK\COADRN2.SHT



CE. 6 WP



CITY OF
Albuquerque
Public Works Department

RECEIVED

MAY 23 1997

LEEDSHILL - HERKENHOFF, INC.
ALBUQUERQUE

Martin J. Chávez, Mayor

Robert E. Gurulé, Director

May 19, 1997

Clint Dodge
Leedshill-Herkenhoff, Inc.
500 Copper Ave. NW Suite 500
P.O. Box 1217
Albuquerque, New Mexico 87103

RE: ENGINEER CERTIFICATION FOR THE FOURTH STREET DEALERSHIP (G14-D59)
CERTIFICATION STATEMENT DATED 4/23/97

Dear Mr. Dodge:


Based on the information provided on your April 24, 1997, listed are some concerns that will need to be addressed prior to final approval:

1. Your plan drawing indicates that no changes have taken place grade wise, please provide me with a copy of the field notes and survey.
2. A copy of the green tag for the sidewalk culverts.

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!

P.O. Box 1293, Albuquerque, New Mexico 87103





Martin J. Chávez, Mayor

Robert E. Gurulé, Director

May 19, 1997

Clint Dodge
Leedshill-Herkenhoff, Inc.
500 Copper Ave. NW Suite 500
P.O. Box 1217
Albuquerque, New Mexico 87103

RE: ENGINEER CERTIFICATION FOR THE FOURTH STREET DEALERSHIP (G14-D59)
CERTIFICATION STATEMENT DATED 4/23/97

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C: Andrew Garcia

File

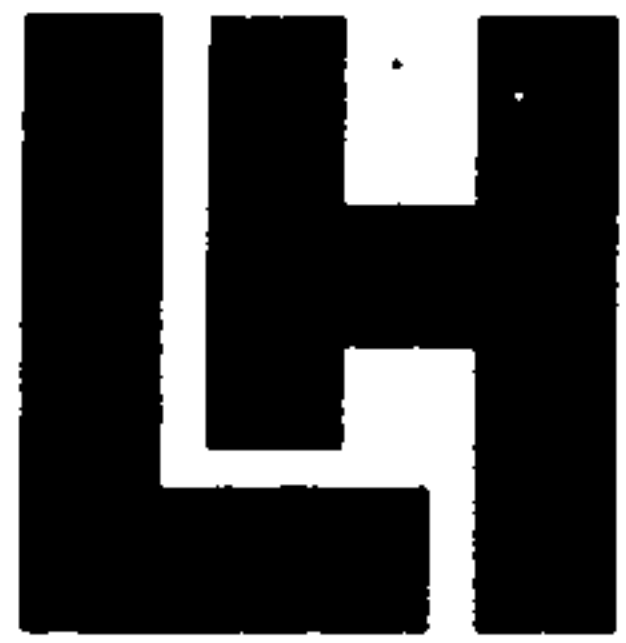
Sincerely


Bernie J. Montoya CE
Associate Engineer

Good for You, Albuquerque!

P.O. Box 1293, Albuquerque, New Mexico 87103





LEEDSHILL-HERKENHOFF, INC.

an ASCG Company

500 Copper Avenue NW, Suite 500

P.O. Box 1217

Albuquerque, New Mexico 87103

(505) 247-0294 Fax (505) 242-4845

407-96047.22-0100-97



April 23, 1997

Mr. Bernie Montoya, CE
PWD/Utility Development/Hydrology Section
City of Albuquerque
P.O. Box 1293
Plaza del Sol
Albuquerque, NM 87103

**RE: FOURTH STREET DEALERSHIP (G14-D59) STAMP DATE 1/9/97
CERTIFICATE OF OCCUPANCY**

Leedshill-Herkenhoff, Inc. (LH) has prepared this letter to request a Certificate of Occupancy for the above referenced project. Enclosed you will find two copies of the As-Constructed Grading and Drainage Plan, a drainage information sheet and a copy of your original letter of approval for the grading and drainage plan, per the DPM. The drawing has been stamped with a substantial compliance statement.

Please call me or Clint Dodge if you have any questions or if we can be of further assistance.

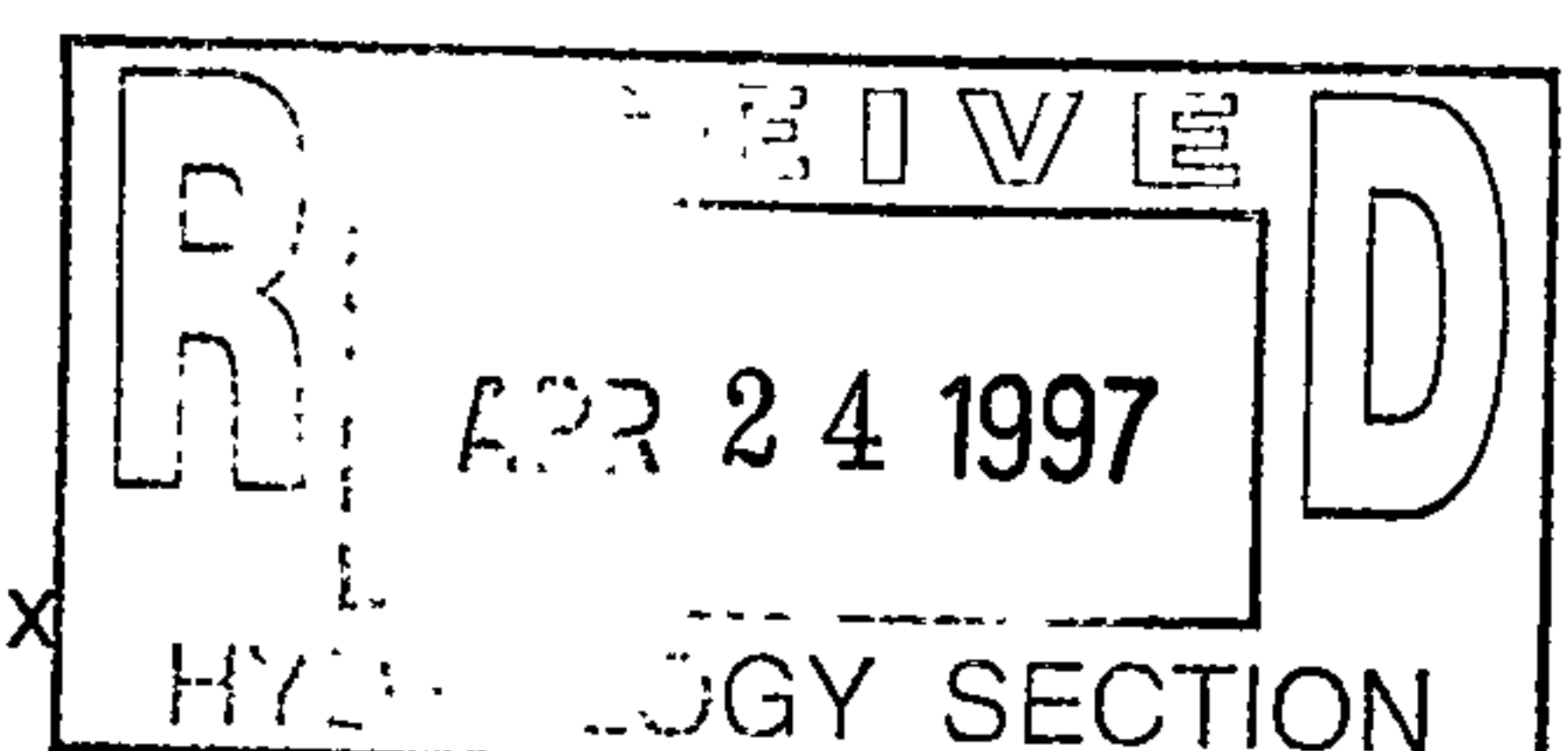
KAREN M. MENNE'-JACOBSEN
Engineering Intern

CLINT DODGE, P.E.
Engineering Division Manager

kmj/lfs

Enclosures

Albuquerque • Santa Fe • Phoenix



96047.21



CITY OF
Albuquerque

Public Works Department

RECEIVED

JAN 27 1997

LEEDSHILL-HERKENHOFF, INC.
ALBUQUERQUE

Martin J. Chávez, Mayor

Robert E. Gurulé, Director

January 23, 1997

Joseph L. DeFronzo
Leedshill-Herkenhoff, Inc.
P.O. Box 1217
Albuquerque, New Mexico 87103

RE: REVISED DRAINAGE PLAN FOR FOURTH STREET DEALERSHIP (G14-D59)
REVISION DATED 1/9/97

Dear Mr. DeFronzo:

Based on the information provided on your January 9, 1997 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.

Also, a separate permit is required for construction within City R/W. A copy of this approval letter must be on hand when applying for the excavation permit.

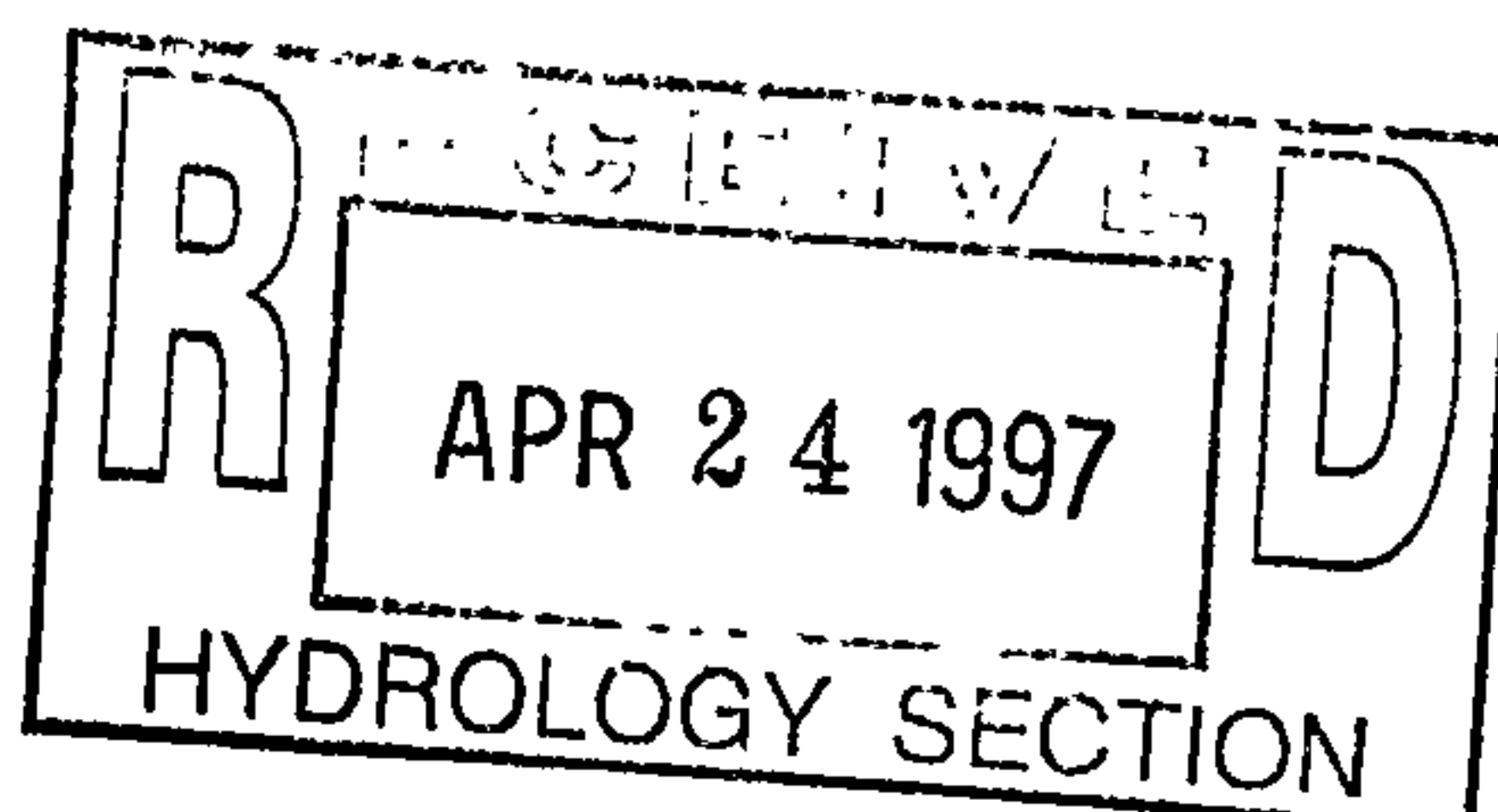
Please, be advised that prior to Certificate of Occupancy release, Engineer Certification per the DPM must be submitted.

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

C: Andrew Garcia
Arlene Portillo

Sincerely

Bernie J. Montoya CE
Engineering Associate



Good for You, Albuquerque!

P.O. Box 1293, Albuquerque, New Mexico 87103



DRAINAGE INFORMATION SHEET

PROJECT TITLE: Fourth Street Dealership ZONE ATLAS/DRNG. FILE #: G-14-~~0~~/D59
DRB: N/A EPC #: N/A WORK ORDER #: N/A
LEGAL DESCRIPTION: Tracts "8J, 8K and 8N" as shown on the M.R.G.C.D. Property Map No. 33, City of Albuquerque, Bernalillo County, New Mexico
CITY ADDRESS: 4700 Fourth Street N.W.
ENGINEERING FIRM: Leedshill-Herkenhoff, Inc. CONTACT: Clint Dodge, P.E.
ADDRESS: 500 Copper Ave. N.W., P.O. Box 1217 PHONE: (505) 247-0294
OWNER: Ugly Duckling Corporation CONTACT: _____
ADDRESS: _____ PHONE: (602) 852-6606
ARCHITECT: Leedshill-Herkenhoff, Inc. CONTACT: Janet Sowell
ADDRESS: 500 Copper Ave. N.W., P.O. Box 1217 PHONE: (505) 247-0294
SURVEYOR: Wayjohn Surveying, Inc. CONTACT: Wayne E. Johnston, P.S.
ADDRESS: 330 Louisiana N.E., Alb., N.M. 87108 PHONE: (505) 255-2052
CONTRACTOR: Gearcon, Inc. CONTACT: Art Logan-Condron
ADDRESS: 630 Louisiana S.E. PHONE: (505) 265-8461

TYPE OF SUBMITTAL:

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

PRE-DESIGN MEETING:

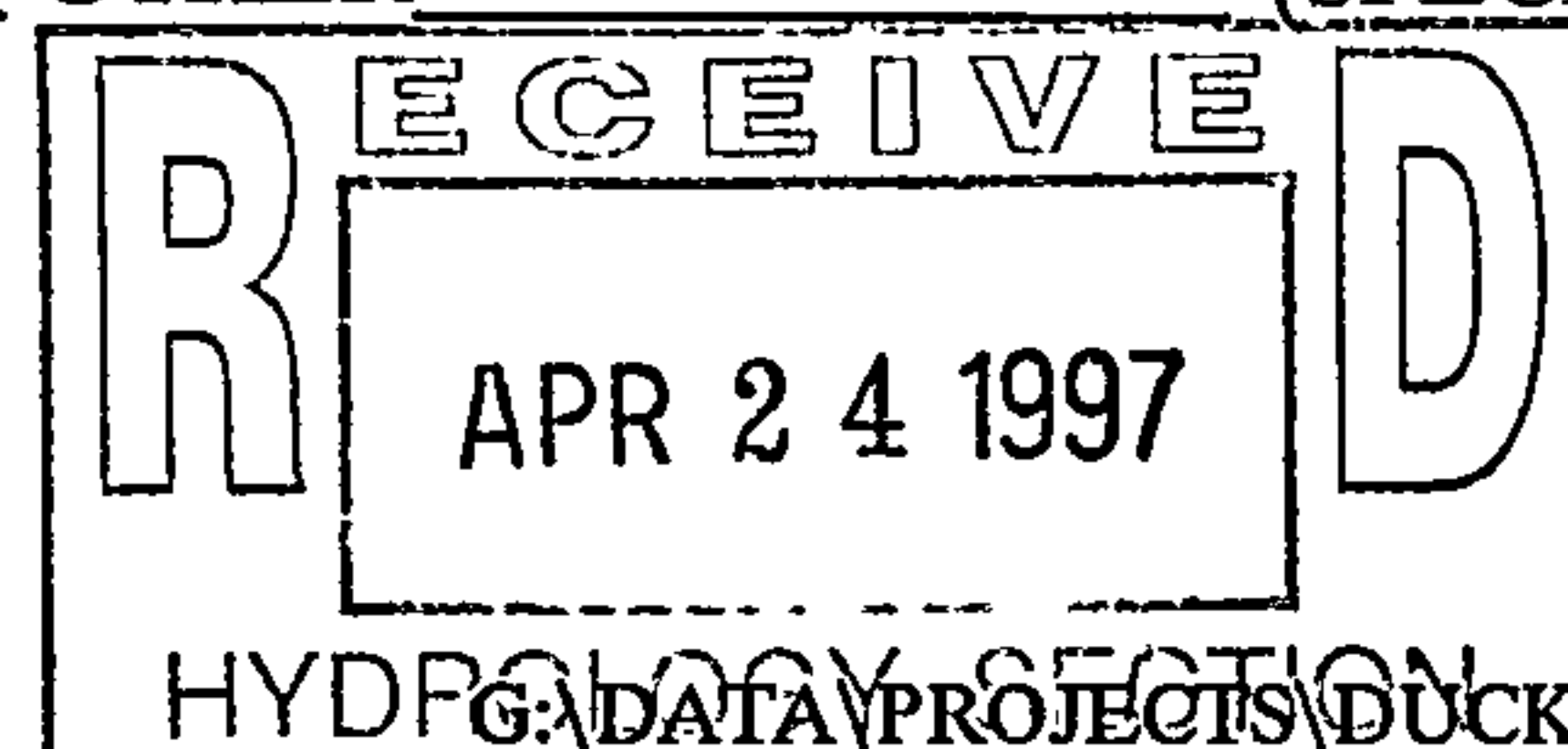
☒ YES
☐ NO
☒ COPY PROVIDED

DATE SUBMITTED: April 24, 1997

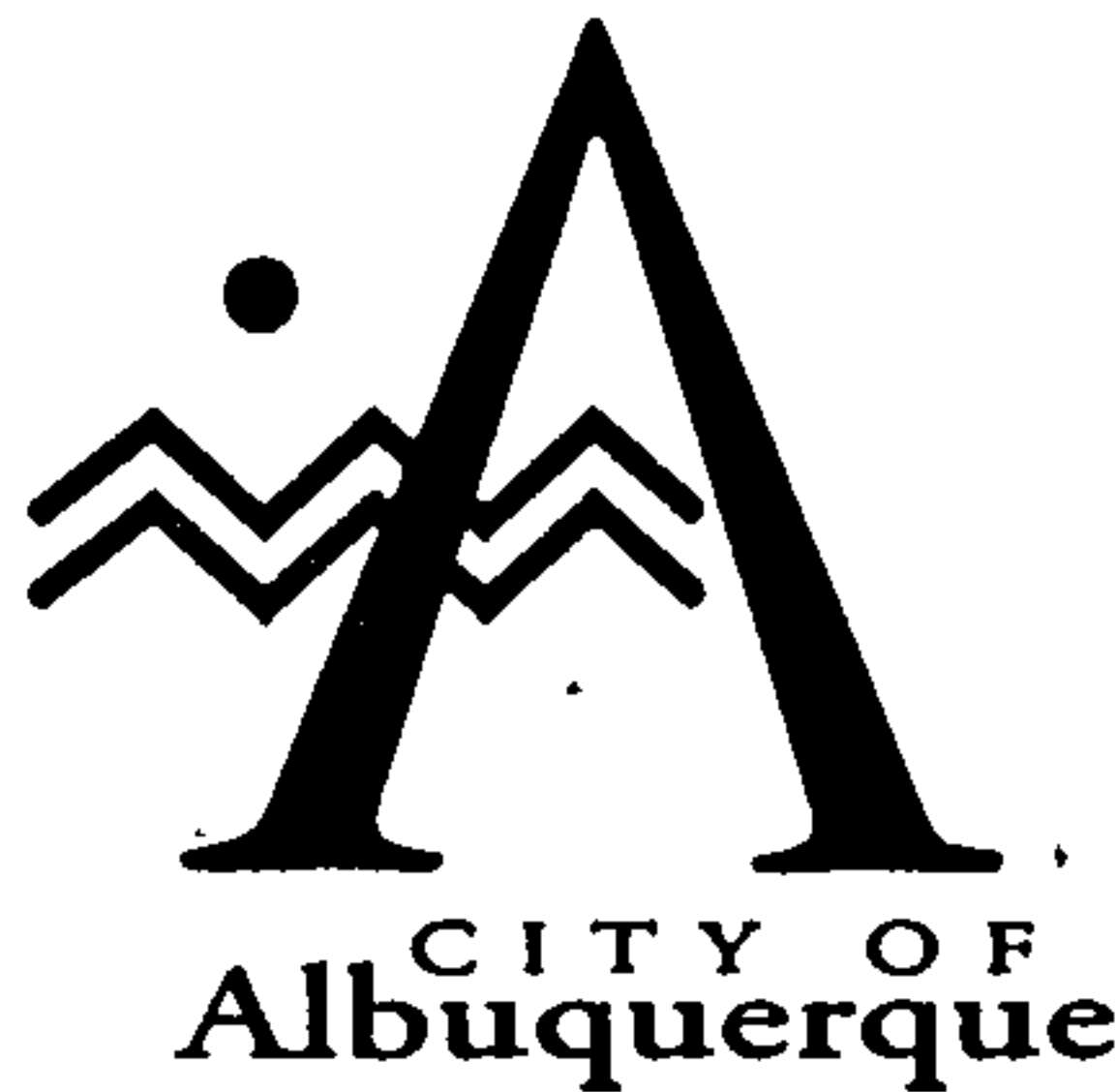
BY: 

CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
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☐ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☐ OTHER (SPECIFY)



30 day temp CO. 4/25/97



Public Works Department

Martin J. Chávez, Mayor

Robert E. Gurulé, Director

January 23, 1997

Joseph L. DeFronzo
Leedshill-Herkenhoff, Inc.
P.O. Box 1217
Albuquerque, New Mexico 87103

RE: REVISED DRAINAGE PLAN FOR FOURTH STREET DEALERSHIP (G14-D59)
REVISION DATED 1/9/97

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

C: Andrew Garcia
Arlene Portillo

Sincerely

Bernie J. Montoya CE
Engineering Associate

Good for You, Albuquerque!

P.O. Box 1293, Albuquerque, New Mexico 87103



DRAINAGE INFORMATION SHEET

PROJECT TITLE: Fourth Street Dealership ZONE ATLAS/DRNG. FILE #: G-14-7 459
DRB: N/A EPC #: N/A WORK ORDER #: N/A
LEGAL DESCRIPTION: Tracts "8J, 8K and 8N" as shown on the M.R.G.C.D. Property Map No. 33, City of Albuquerque, Bernalillo County, New Mexico
CITY ADDRESS: 4700 Fourth Street N.W.
ENGINEERING FIRM: Leedshill-Herkenhoff, Inc. CONTACT: Joseph L. DeFronzo, P.E.
ADDRESS: 500 Copper Ave. N.W., P.O. Box 1217 PHONE: (505) 247-0294
OWNER: Ugly Duckling Corporation CONTACT: _____
ADDRESS: _____ PHONE: (602) 852-6606
ARCHITECT: Leedshill-Herkenhoff, Inc. CONTACT: John Jarrard, AIA
ADDRESS: 500 Copper Ave. N.W., P.O. Box 1217 PHONE: (505) 247-0294
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☐ OTHER

PRE-DESIGN MEETING:

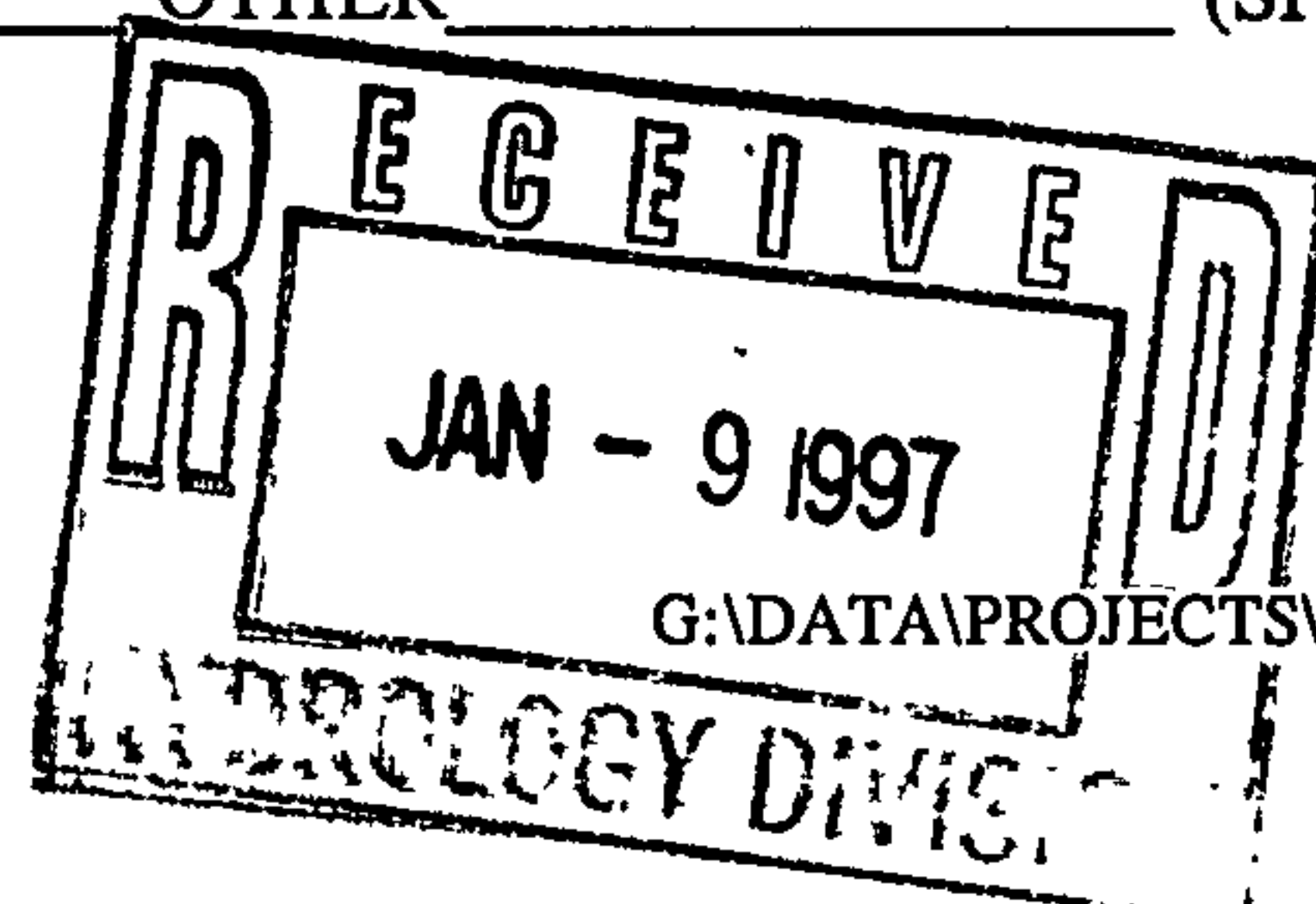
☒ YES
☐ NO
☒ COPY PROVIDED

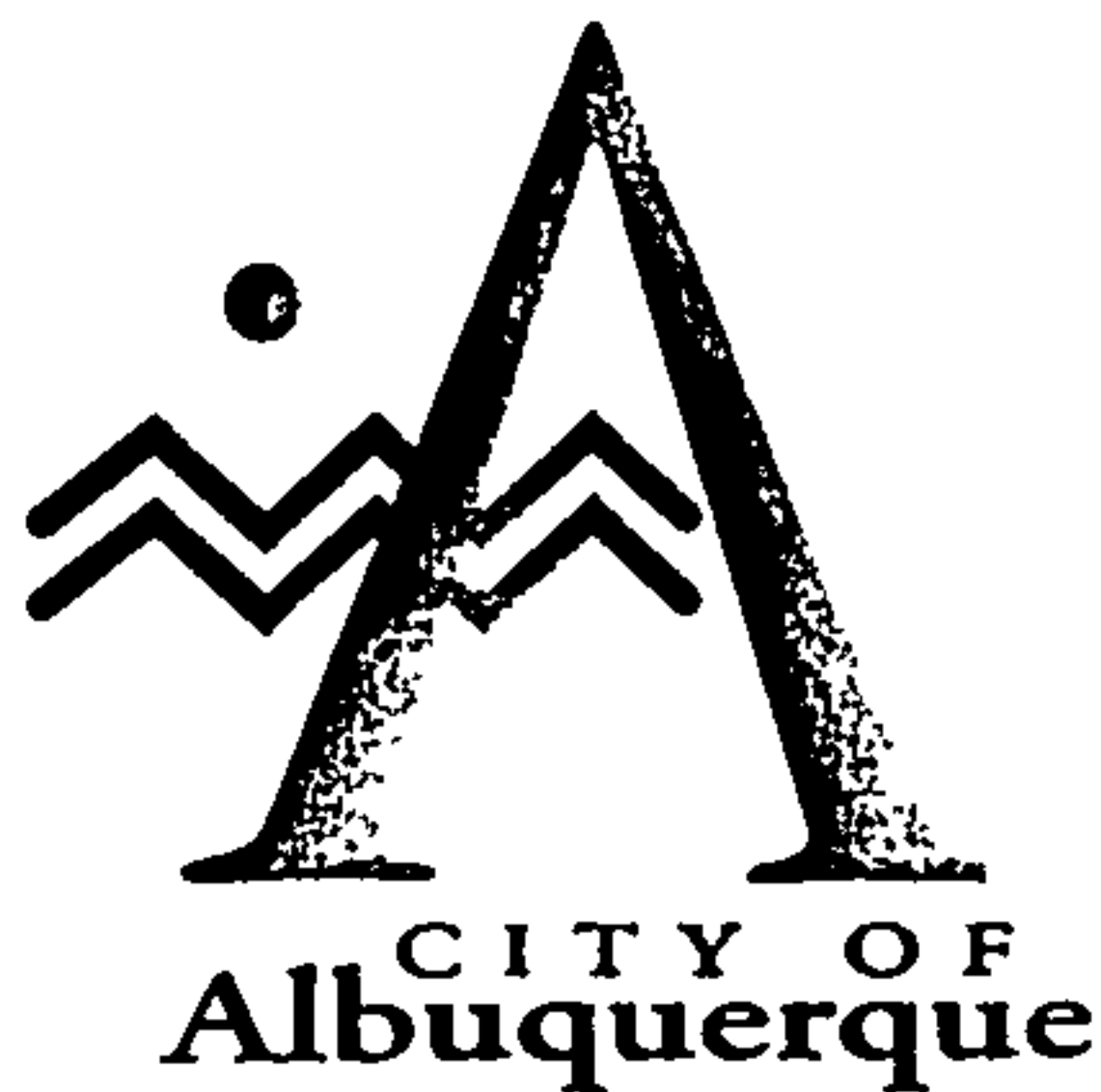
DATE SUBMITTED: January 9, 1997

BY: Joseph L. DeFronzo

CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D APPROVAL
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☐ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☐ OTHER _____ (SPECIFY)





December 6, 1996

RECEIVED

DEC 12 1996

LEEDSHILL - HERKENHOFF, INC.
ALBUQUERQUE

Martin J. Chávez, Mayor

Joseph L. DeFronzo
Leedshill-Herkenhoff, Inc.
P.O. Box 1217
Albuquerque, NM 87103

**RE: DRAINAGE PLAN FOR FOURTH STREET DEALERSHIP (G14-D59)
ENGINEER'S STAMP DATED 11/27/96.**

Dear Mr. DeFronzo:

Based on the information provided on your November 29, 1996 submittal, listed are some concerns that will need to be addressed prior to final approval:

1. Please identify on the plan drawing the location of the T.B.M.'s.
2. I am assuming that you are proposing to use sidewalk culverts to drain the run-off at the south portion of the property. You will need to include the six notes and sign-off block from the S.O. 19 format. You will need to identify the C.O.A. spec. Number for the sidewalk culvert. Two copies of the plan drawing with your resubmittal.
3. Top of curb and flow line elevations on Calle de la Luz and Fourth Street.

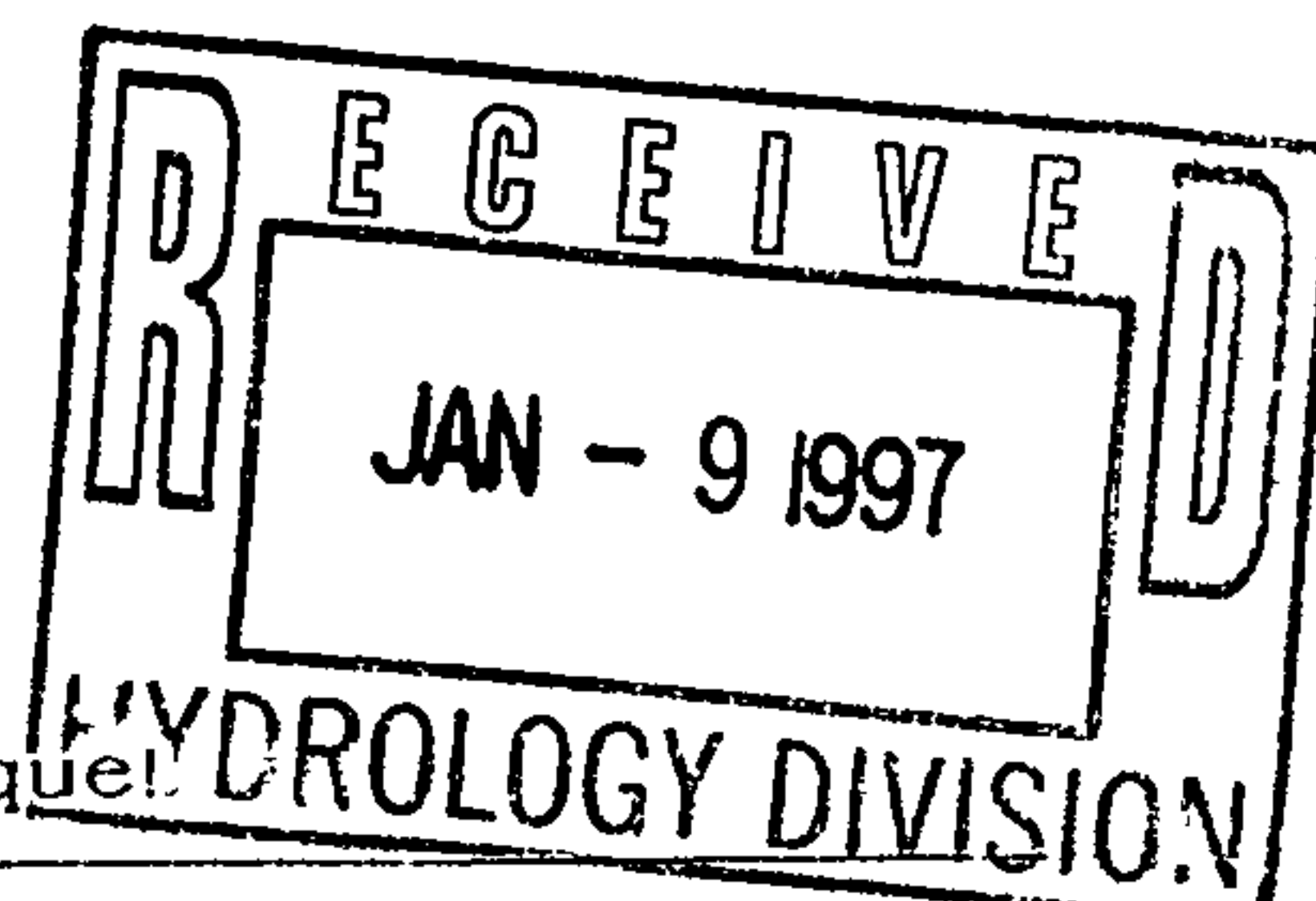
If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya, CE
Engineering Associate

BJM/dl

c: Andrew Garcia
File



Good for You, Albuquerque



LEEDSHILL - HERKENHOFF, INC.
Copper Square
P.O. Box 1217
Albuquerque, New Mexico 87103

LETTER OF TRANSMITTAL

PROJECT: FOURTH STREET DEALERSHIP FOR
(name, address) UGLY DUCKLING CORP.

LEEDSHILL - HERKENHOFF, INC.
PROJECT NO: 96047.21

TO: 「PND/UTILITY DEV./HYDROLOGY」
CITY OF ALBUQUERQUE
P.O. BOX 1293
ALBUQUERQUE, NM 87103
ATTN: BERNIE MONTOYA

DATE: 1/9/97

If enclosures are not as noted, please
inform us immediately.

If checked below, please:
() Acknowledge receipt of enclosures.
() Return enclosures to us.

WE TRANSMIT:

☒ herewith () under separate cover via _____
() in accordance with your request _____

FOR YOUR:

☒ approval () distribution to parties
() review & comment () record
() use _____

THE FOLLOWING:

☒ Drawings () Shop Drawings
() Specifications () Estimates
() Contract Documents () _____
() Change Orders

COPIES	DATE	REV.NO.	DESCRIPTION	ACTION CODE
<u>2</u>	<u>1-9-97</u>	<u>1</u>	<u>GRADING & DRAINAGE PLAN</u>	
<u>1</u>	<u>1-9-97</u>		<u>DRAINAGE INFORMATION SHEET</u>	
<u>1</u>	<u>1-9-97</u>		<u>PRE-DESIGN CONFERENCE FORM</u>	
<u>1</u>	<u>12-6-96</u>		<u>COMMENT LETTER</u>	

ACTION CODE
A. Action indicated on item transmitted
B. No action required
C. For signature and return to this office

D. For signature and forwarding as noted below under REMARKS
E. See REMARKS below

REMARKS _____

COPIES TO: _____ (with enclosures)

1101 E P E O V E
1101 E P E O V E
1101 JAN - 9 1997 1101
1101

HYDROLOGY DIVISION

BY: JOSEPH L. DEFONZO, P.E.
Joseph A. DeFronzo

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

PRE-DESIGN CONFERENCE

DRAINAGE FILE/ZONE ATLAS PAGE NO.: G14 DATE: Nov 8 1996
EPC NO.: _____ DRB NO.: _____ ZONE: G14
SUBJECT: Car Dealership
STREET ADDRESS: 4th + CORIEGOS
LEGAL DESCRIPTION: _____

APPROVAL REQUESTED: _____ PRELIMINARY PLAT _____ FINAL PLAT
_____ SITE DEVELOPMENT PLAN X BUILDING PERMIT
_____ GRADING/PAVING PERMIT _____ OTHER

WHO REPRESENTING
ATTENDANCE: JOE DEFRONZO LIT
LISA MAHILL LOA

FINDINGS:

This site is currently developed as a Furr's Supermarket, + drains to an existing storm drain system in Coriegos.

This site can free discharge to system in Coriegos + system on 4th.

Provide 1 ft water block.

FF to mean sea level + roof drain location

Bench mark info.

Dirty water goes to oil/water separator + then to S.A.S.

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]

TITLE: _____

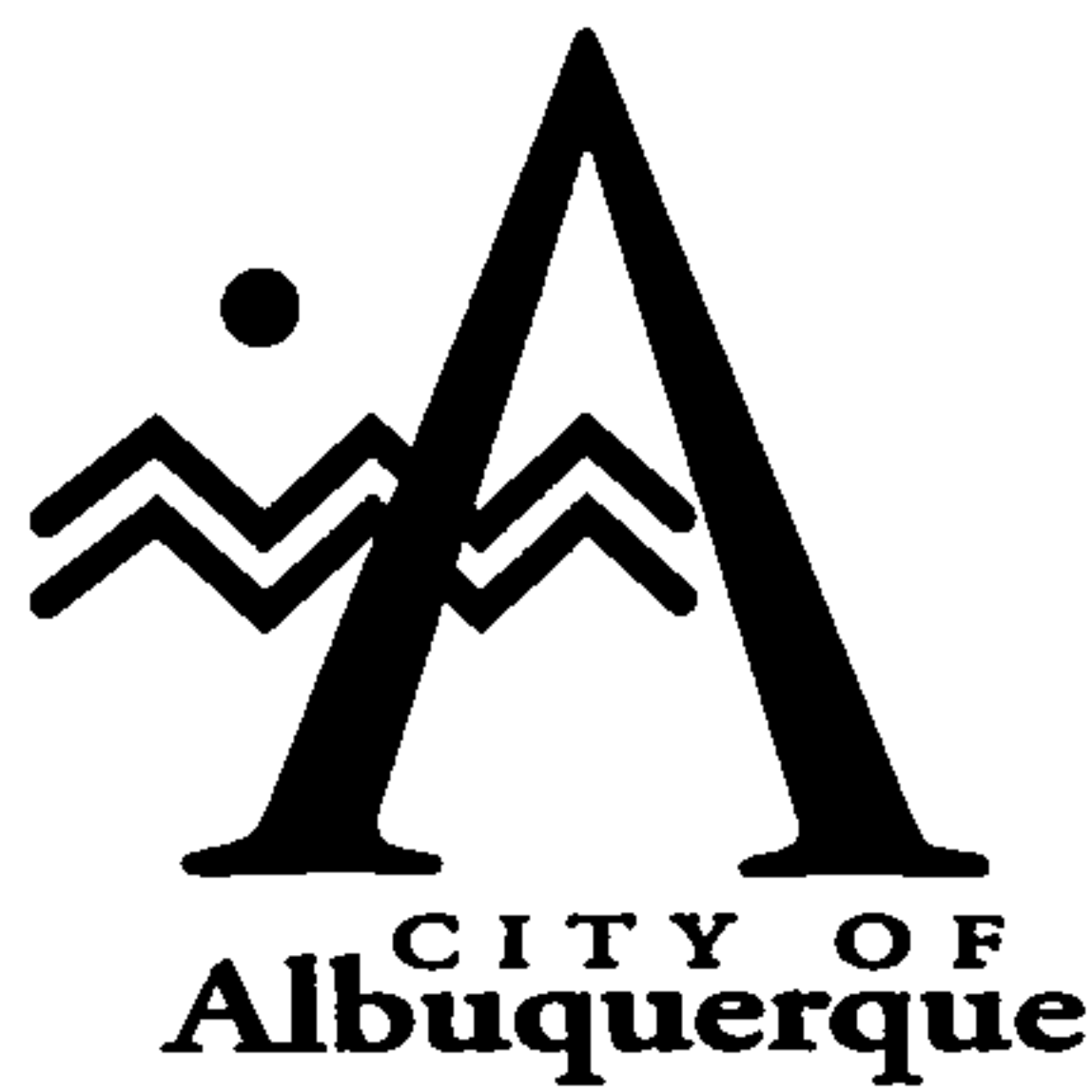
DATE: 11-8-96

SIGNED: [Signature]

TITLE: HYDROLOGY DIVISION

DATE: 11-8-96

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



December 6, 1996

Martin J. Chávez, Mayor

Joseph L. DeFronzo
Leedshill-Herkenhoff, Inc.
P.O. Box 1217
Albuquerque, NM 87103

**RE: DRAINAGE PLAN FOR FOURTH STREET DEALERSHIP (G14-D59)
ENGINEER'S STAMP DATED 11/27/96.**

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Sincerely,

Bernie J. Montoya, CE
Engineering Associate

BJM/dl

c: Andrew Garcia
File



DRAINAGE INFORMATION SHEET

PROJECT TITLE: Fourth Street Dealership ZONE ATLAS/DRNG. FILE #: G-14-7 1059

DRB: N/A EPC #: N/A WORK ORDER #: N/A

LEGAL DESCRIPTION: Tracts "8J, 8K and 8N" as shown on the M.R.G.C.D. Property Map No. 33, City of Albuquerque, Bernalillo County, New Mexico

CITY ADDRESS: 4700 Fourth Street N.W.

ENGINEERING FIRM: Leedshill-Herkenhoff, Inc. CONTACT: Joseph L. DeFronzo, P.E.

ADDRESS: 500 Copper Ave. N.W., P.O. Box 1217 PHONE: (505) 247-0294

OWNER: Ugly Duckling Corporation CONTACT: _____

ADDRESS: _____ PHONE: (602) 852-6606

ARCHITECT: Leedshill-Herkenhoff, Inc. CONTACT: John Jarrard, AIA

ADDRESS: 500 Copper Ave. N.W., P.O. Box 1217 PHONE: (505) 247-0294

SURVEYOR: Wayjohn Surveying, Inc. CONTACT: Wayne E. Johnston, P.S.

ADDRESS: 330 Louisiana N.E., Alb., N.M. 87108 PHONE: (505) 255-2052

CONTRACTOR: Gearcon, Inc. CONTACT: Art Logan-Condron

ADDRESS: 630 Louisiana S.E. PHONE: (505) 265-8461

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
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☐ CONCEPTUAL GRADING & DRAINAGE PLAN
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☐ EROSION CONTROL PLAN
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☐ OTHER

PRE-DESIGN MEETING:

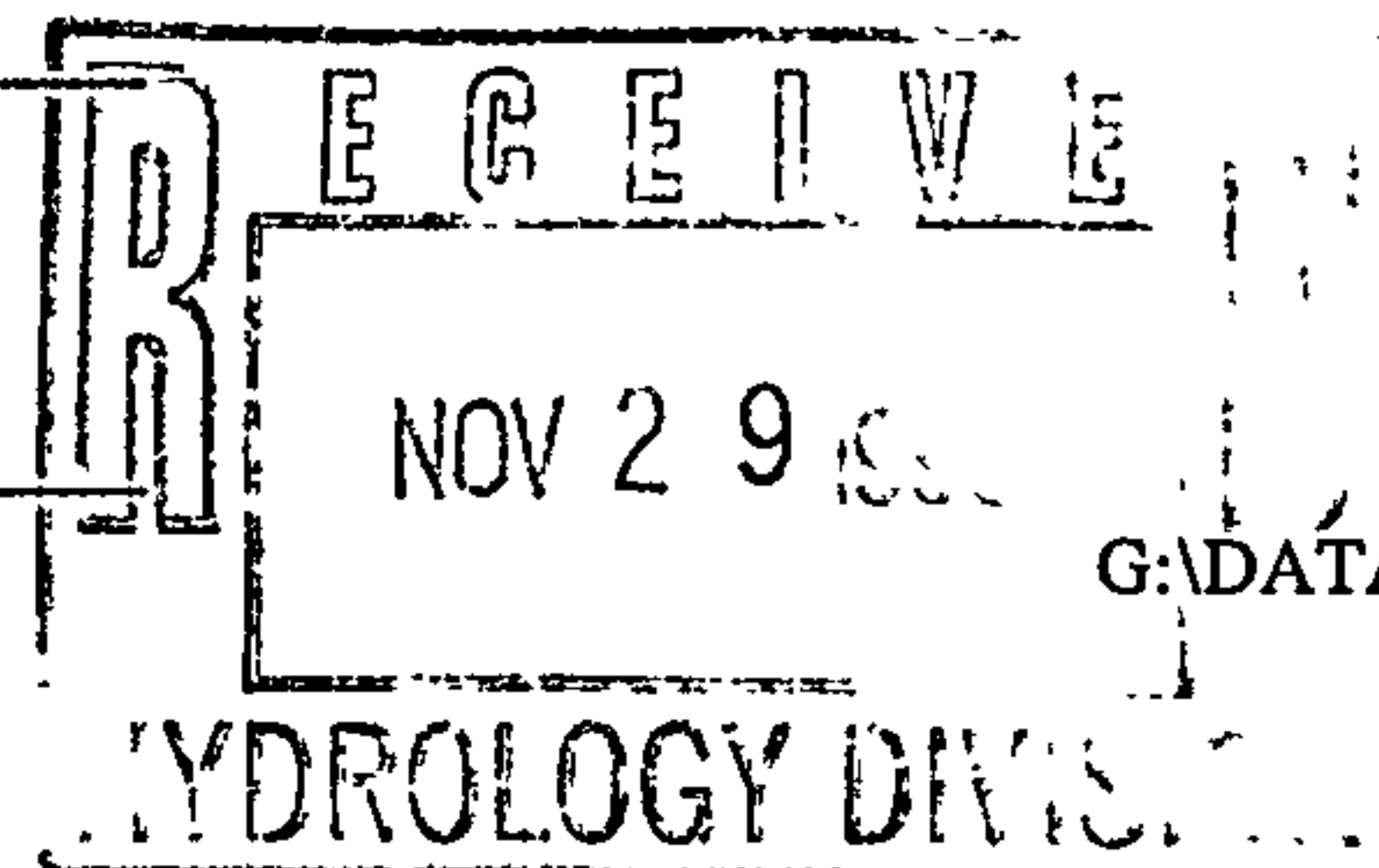
- ☒ YES
☐ NO
☒ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

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☐ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: November 27, 1996

BY: Joseph L. DeFronzo



G:\DATA\PROJECTS\DUCK\COADRAIN.SHT



LEEDSHILL-HERKENHOFF, INC.

500 Copper Avenue N.W.

P. O. Box 1217

Albuquerque, New Mexico 87103

(505) 247-0294

1285-96047.11-96

November 27, 1996

Ms. Lisa Manwill
PWD/Utility Development/Hydrology Section
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

**RE: FOURTH STREET DEALERSHIP - UGLY DUCKLING CORPORATION
ZONE ATLAS NO. G-14-Z**

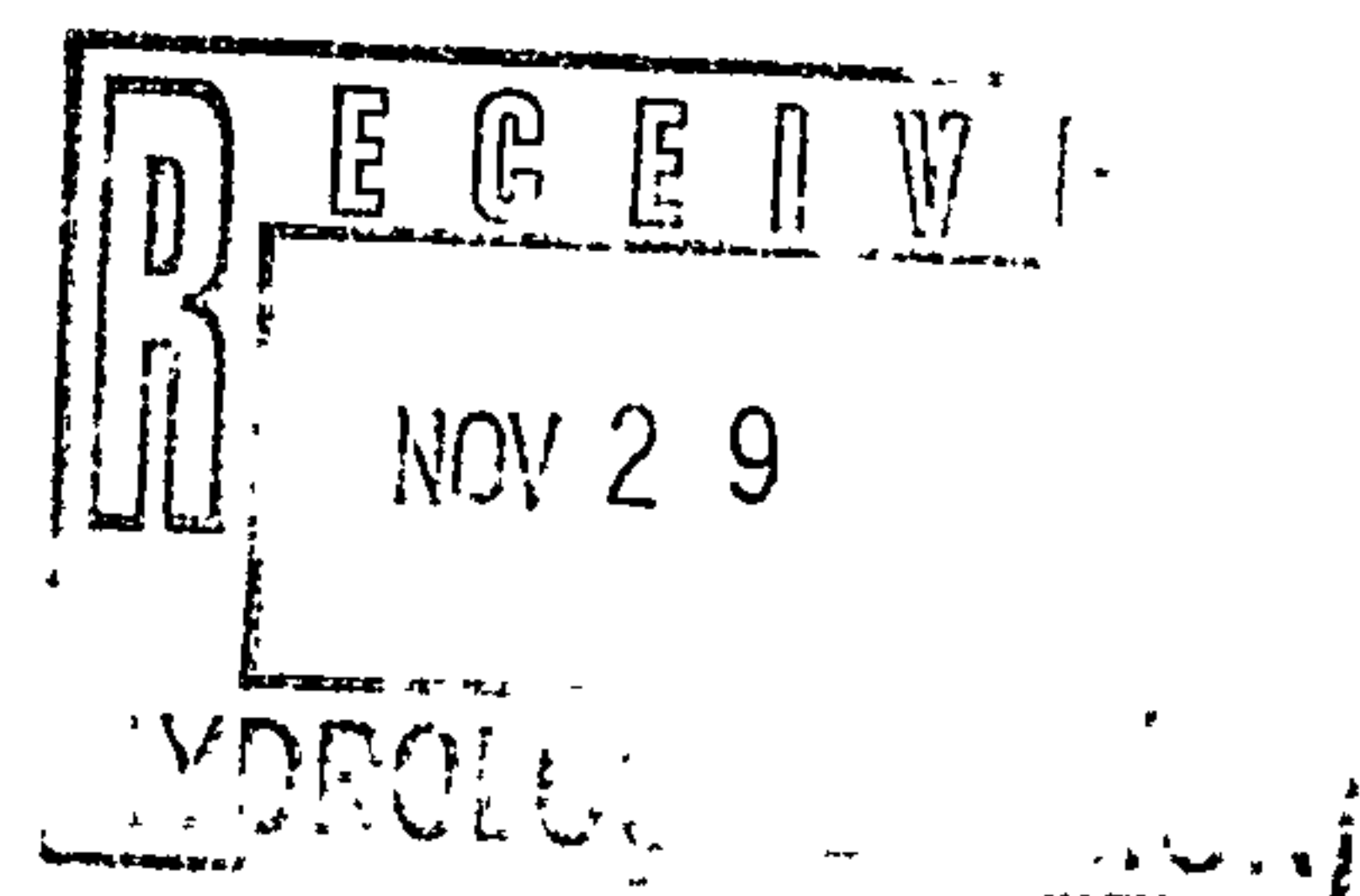
Leedshill-Herkenhoff, Inc. (LH) has prepared this letter drainage report for the above referenced project site. In accordance with our Pre-Design Conference on November 8, 1996, we are providing the items required by the City for a building permit approval.

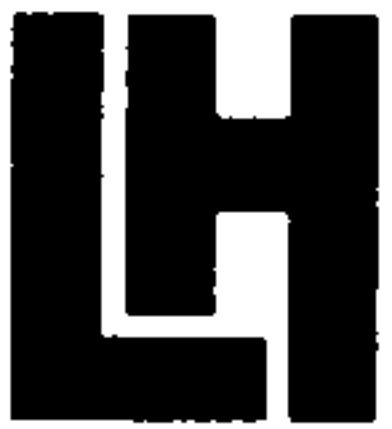
Included with this letter, you will find the Drainage Information Sheet and a copy of the grading and drainage plan. The drainage calculations were performed in accordance with Section 22.2 of the Development Process Manual for the City of Albuquerque and are provided in Attachment A.

We obtained the topographical survey information for this project from Wayjohn Surveying Inc. and the proposed landscaping was coordinated with Morrow & Company. As shown on the grading and drainage plan, this project will add some landscaping areas adjacent to Fourth Street, Griegos Road and Calle de La Luz, as well as in the parking lot. With the addition of the landscape areas, this project will not increase the peak runoff amounts.

Drainage calculations were performed to determine the amount of runoff for the drainage basin within the project site for both existing and proposed conditions. The results are summarized below:

DATA FROM:	Q100 CALCULATED
Existing Conditions	Q100 = 12.1 cfs
Proposed Conditions	Q100 = 11.3 cfs





Ms. Lisa Manwill
November 27, 1996
Page 2

The proposed improvements were determined to have a decrease in peak runoff. Therefore, it is anticipated that free discharge into the storm drain system in Fourth Street and Griegos Road is acceptable.

The project site is not located within the 100-year flood as indicated on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM), Community Panel 350002 0015c, dated October 14, 1983 (see Attachment A). Therefore, no special design considerations were required.

LH requests your approval for a building permit for the above referenced project site, and trust that the information provided is satisfactory. If you have any questions please call me at 247-0294.

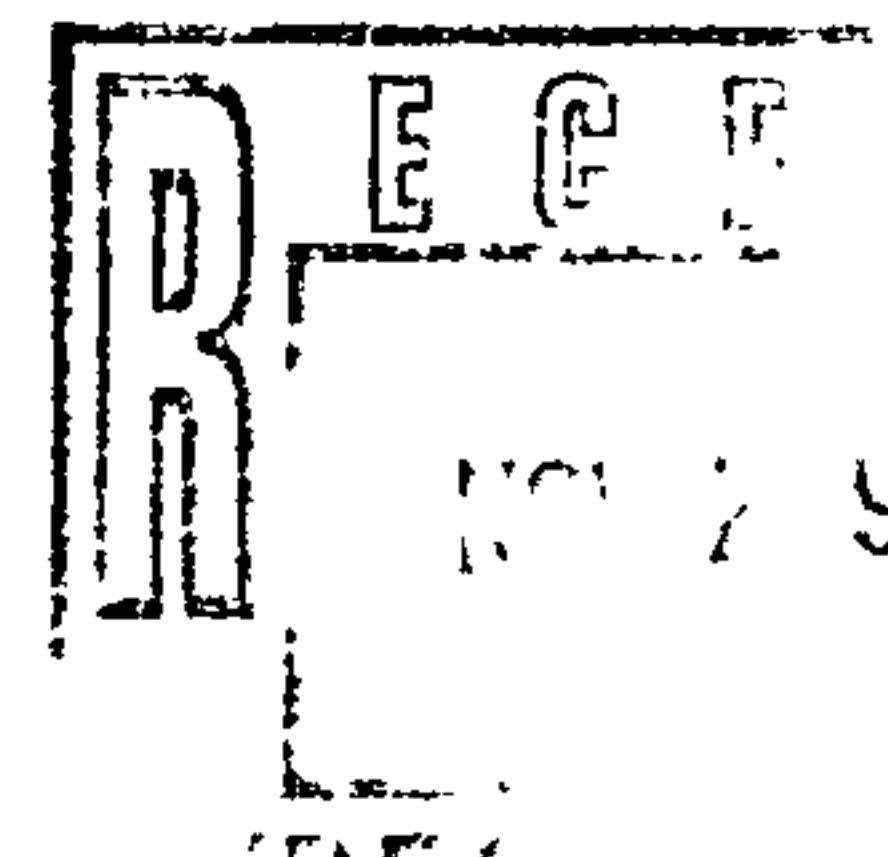

JOSEPH L. DEFRONZO, P.E.

Project Engineer

jld/jh

Enclosures

cc: John Jarrard, LH



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

PRE-DESIGN CONFERENCE

DRAINAGE FILE/ZONE ATLAS PAGE NO.: G14 DATE: Nov 8 1996
EPC NO.: _____ DRB NO.: _____ ZONE: G14
SUBJECT: Car Dealership
STREET ADDRESS: 4th + GRIEGOS
LEGAL DESCRIPTION: _____

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

	WHO	REPRESENTING
ATTENDANCE:	<u>JOE DEFONZO</u>	<u>LIT</u>
	<u>LISA MANUILL</u>	<u>LDA</u>
	_____	_____

FINDINGS:

This site is currently developed as a Furr's Supermarket, + drains to an existing storm drain system in Griegos.

This site can free discharge to system in Griegos + system on 4th.

Provide 1 ft water block.

FF to mean sea level + roof drain location

Bench mark info.

Dirty water goes to oil/water separator + then to S.A.S.

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: <u>[Signature]</u>	SIGNED: <u>Joseph DeFonzo</u>
TITLE: _____	TITLE: _____
DATE: <u>11-8-96</u>	DATE: <u>11-8-96</u>

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



LEEDSHILL - HERKENHOFF, INC.

Albuquerque • Santa Fe
ENGINEERING COMPUTATIONS

NAME OF PROJECT

FOURTH STREET DEALERSHIP

COMPUTED BY:

JLD

CHECKED BY:

KMS

JOB NUMBER

96047.21

SHEET NUMBER

1 OF 3

DATE:

11-15-96

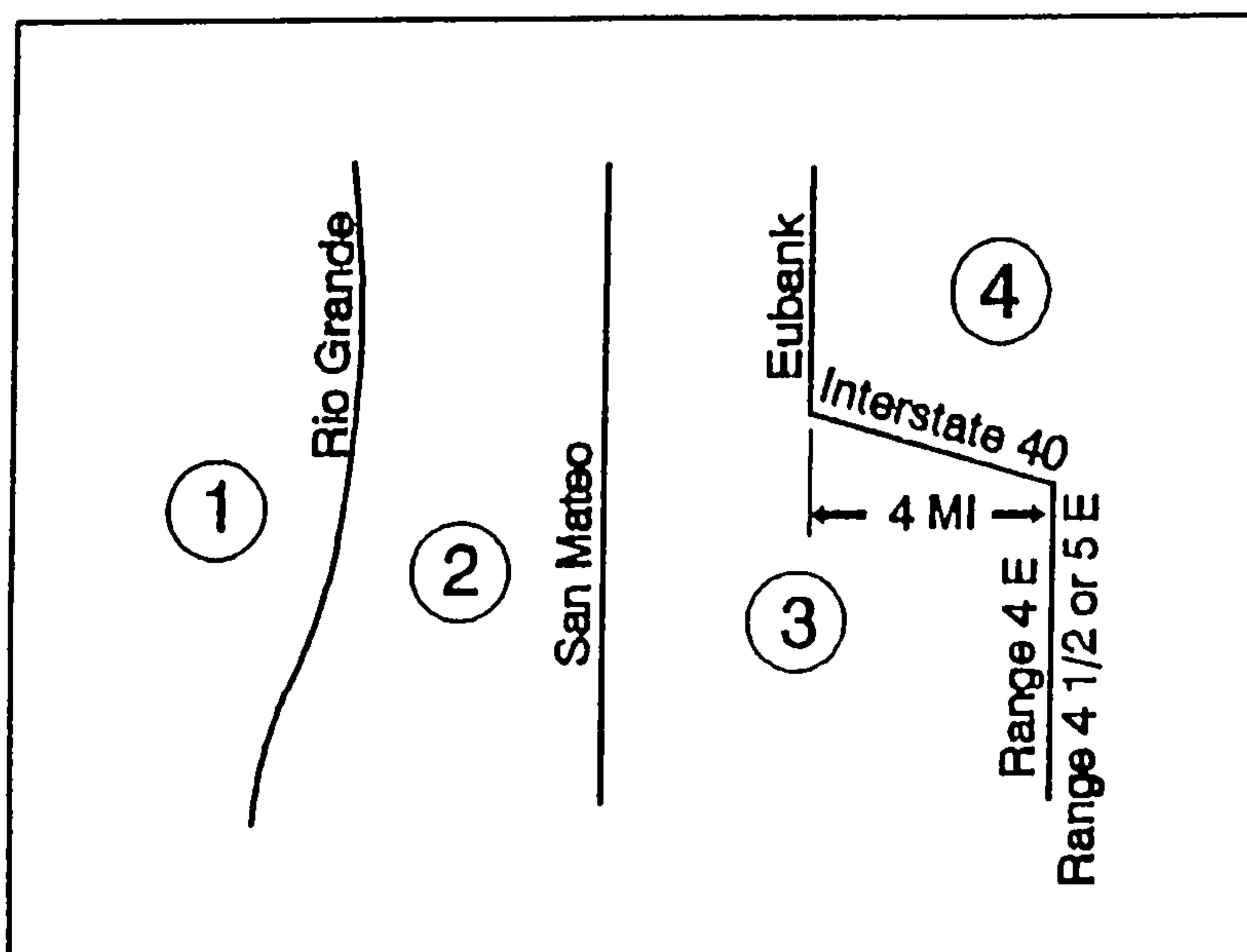
DPM SECTION 22.2 - HYDROLOGY
January, 1993 Page A-1**PART A - PROCEDURE FOR 40 ACRE AND SMALLER BASINS**

A simplified procedure for projects with sub-basins smaller than 40 acres has been developed based on initial abstraction/uniform infiltration precipitation losses and Rational Method procedures. For this procedure, Bernalillo County has been divided into four (4) Precipitation Zones.

A.1 PRECIPITATION ZONES

Bernalillo County's four precipitation zones are indicated in TABLE A-1 and on FIGURE A-1.

TABLE A-1. PRECIPITATION ZONES	
Zone	Location
1	West of the Rio Grande
2	Between the Rio Grande and San Mateo
3	Between San Mateo and Eubank, North of Interstate 40; and between San Mateo and the East boundary of Range 4 East, South of Interstate 40
4	East of Eubank, North of Interstate 40; and East of the East boundary of Range 4 East, South of Interstate 40

FIGURE A-1

Where a watershed extends across a zone boundary, use the zone which contains the largest portion of the watershed.





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NAME OF PROJECT

FOURTH STREET DEALERSHIP

COMPUTED BY:

JLD

CHECKED BY:

KM-J

JOB NUMBER

96047.21

SHEET NUMBER

2 OF 3

DATE:

11-15-96

DPM SECTION 22.2 - HYDROLOGY
January, 1993

Page A-4

TABLE A-4. LAND TREATMENTS

Treatment	Land Condition
A	Soil uncompacted by human activity with 0 to 10 percent slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, groundcover and infiltration capacity. Croplands. Unlined arroyos.
B	Irrigated lawns, parks and golf courses with 0 to 10 percent slopes. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes greater than 10 percent and less than 20 percent.
C	Soil compacted by human activity. Minimal vegetation. Unpaved parking, roads, trails. Most vacant lots. Gravel or rock on plastic (desert landscaping). Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes at 20 percent or greater. Native grass, weed and shrub areas with clay or clay loam soils and other soils of very low permeability as classified by SCS Hydrologic Soil Group D.
D	Impervious areas, pavement and roofs.
Most watersheds contain a mix of land treatments. To determine proportional treatments, measure respective subareas. In lieu of specific measurement for treatment D, the areal percentages in TABLE A-5 may be employed.	



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3 OF 3

DATE:

11-15-96

A.6 PEAK DISCHARGE RATE FOR SMALL WATERSHEDS

Small watersheds are less than or equal to 40 acres.

Peak Discharge

Using a 0.2-hour (12-minute) time of concentration, peak discharge, Q_p , per acre is the volume of excess precipitation in the heaviest 12-minute portion of the storm, divided by the time increment, 12 minutes, and multiplied by an attenuation factor. The attenuation factor (0.59 for treatment A, 0.67 for treatment B, 0.75 for treatment C and 0.93 for treatment D) describes the effect of routing. Determine the peak discharge using the values in TABLE A-9, which have been adjusted to consider the effects of initial abstraction.

TABLE A-9. PEAK DISCHARGE (cfs/acre)				
Zone	Treatment			
	A	B	C	D
1	1.29 [0.00, 0.24]	2.03 [0.03, 0.76]	2.87 [0.47, 1.49]	4.37 [1.69, 2.89]
2	1.56 [0.00, 0.38]	2.28 [0.08, 0.95]	3.14 [0.60, 1.71]	4.70 [1.86, 3.14]
3	1.87 [0.00, 0.58]	2.60 [0.21, 1.19]	3.45 [0.78, 2.00]	5.02 [2.04, 3.39]
4	2.20 [0.05, 0.87]	2.92 [0.38, 1.45]	3.73 [1.00, 2.26]	5.25 [2.17, 3.57]

COA/HYDROLOGY DRAINAGE CALCULATIONS

File: 4th&greg

Project: 4th & Griegos

Date: 15-Nov-96

Precipitation Zone (Enter 1-4 from Table A-1): 2

Design Storm Event (Enter 2, 10, or 100): 100


Basin #	Treatment	Existing			Proposed			Subtotal	
		Area (SF)	Area (AC)	Qp (CFS)	Area (SF)	Area (AC)	Qp (CFS)	Existing	Proposed
1	A	0	0.0	0.0	0	0.0	0.0		
	B	0	0.0	0.0	13,600	0.3	0.7		
	C	0	0.0	0.0	0	0.0	0.0		
	D	111,753	2.6	12.1	98,153	2.3	10.6	12.1	11.3
	A	0	0.0	0.0	0	0.0	0.0		
	B	0	0.0	0.0	0	0.0	0.0		
	C	0	0.0	0.0	0	0.0	0.0		
	D	0	0.0	0.0	0	0.0	0.0	0.0	0.0
	A	0	0.0	0.0	0	0.0	0.0		
	B	0	0.0	0.0	0	0.0	0.0		
	C	0	0.0	0.0	0	0.0	0.0		
	D	0	0.0	0.0	0	0.0	0.0	0.0	0.0
	A	0	0.0	0.0	0	0.0	0.0		
	B	0	0.0	0.0	0	0.0	0.0		
	C	0	0.0	0.0	0	0.0	0.0		
	D	0	0.0	0.0	0	0.0	0.0	0.0	0.0
TOTALS		111,753	2.6	12.1	111,753	2.6	11.3	12.1	11.3


KM-J



DESCRIPTION OF LOCATION

PROJECT SITE

A square, , chiseled on top of the concrete curb at the south-southeast curb return, located at the intersection of Rio Grande Blvd. and Griegos Rd., N.W. in the southeast quadrant of the intersection.

A square, , chiseled on the west-southwest base of a concrete wall, located at the intersection of 4th St. and Solar Rd., N.W. in the southwest quadrant of the intersection.

date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program at (800) 638-6620.



SCALE : 1"=500'



NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP

CITY OF
ALBUQUERQUE,
NEW MEXICO
BERNALILLO COUNTY

PANEL 15 OF 50

COMMUNITY-PANEL NUMBER

350002 0015 C

EFFECTIVE DATE:

OCTOBER 14, 1983



Federal Emergency Management Agency

ATTACHMENT A