HYDROLOGY L14/D11 ONE PLAN

L 14-D 11

1 PLAN

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

HYDROLOGY SECTION PROJ. NO. L-14 DATE: 3/26/84

PLANNING DIVISION NO. _____

CONFERENCE RECAP

SUBJECT: Lot 5A (701 GIBSON Rd SE)

WHO	REPRESENTING
ATTENDANCE: Richard Polk	Owner
Billy Goolsby	

FINDINGS: ① Drainage Plan per DPM required
② Free discharge allowed.
③ Existing conveyance across property to remain. Unless it can be demonstrated that flows can diverted around site without creating adverse impacts upstream.
④ Approved alley grades required.

Please provide a copy of recap w/ 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: Billy J. Goolsby SIGNED: R D Polk

TITLE: CE/Hydrology TITLE: _____

DATE: 3/26/84 DATE: _____

INFORMATION SHEET

PROJECT TITLE Warehouse TYPE OF SUBMITTAL Drainage/Final

ZONE ATLAS PAGE NO. L-18-Z CITY ADDRESS 701 Gibson Blvd SE

LEGAL DESCRIPTION Lot 5A - Block 13 Torreon Add.

ENGINEERING FIRM A.E.E. Engr. Inc. CONTACT John F Esquibel

ADDRESS 1330 San Pedro PHONE 266-8791

OWNER Richard S Polk CONTACT Richard S Polk

ADDRESS 621 Gibson Rd SE PHONE 294-8602

ARCHITECT Bill Buckley CONTACT Bill

ADDRESS 740 San Mateo NE PHONE 255-9196

SURVEYOR AEE Engr. Inc CONTACT John F Esquibel

ADDRESS 1330 San Pedro NE PHONE 266-8791

CONTRACTOR Enchantment Heating CONTACT R.S Polk

ADDRESS 621 Gibson Rd SE PHONE 294-8602

PRE-DESIGN MEETING:

X YES
___ NO
X COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

___ SKETCH PLAT APPROVAL
___ PRELIMINARY PLAT APPROVAL
___ SITE DEVELOPMENT PLAN APPROVAL
___ FINAL PLAT APPROVAL
___ BUILDING PERMIT APPROVAL
X CERTIFICATE OF OCCUPANCY APPROVAL
___ ROUGH GRADING PERMIT APPROVAL
___ GRADING/PAVING PERMIT APPROVAL
___ OTHER _____ (SPECIFY)

RECEIVED
APR 16 1984
HYDROLOGY SECTION

DATE SUBMITTED: 4/13/84

BY: John F Esquibel

4/19/84

Michelle,

I refuse to review this plan. The engineers stamp and signature has been purposely smudged such that it is not readable. The plan was prepared by John Esquibel and he is not qualified to do so. Therefore, I will not review it.

Maybe John or Fred can.

Please advise whomever reviews this that there exists a large off-site contributory area that extends to the east beyond the Interstate 25. This contrary to what John Esquibel is indicating.

Billy

Fred

Do you want to handle this

4/23/84

INFORMATION SHEET

PROJECT TITLE Warehouse (RS Polk) TYPE OF SUBMITTAL Drainage Final

ZONE ATLAS PAGE NO. L-14-Z-D11 CITY ADDRESS 701 Gibson Rd SE

LEGAL DESCRIPTION Lot 5A - Block 13 Torreon Addition

ENGINEERING FIRM A & E Engr Inc CONTACT John F Esquibel

ADDRESS 1330 San Pedro NE PHONE 266 8791

OWNER Richard S Polk CONTACT Richard Polk

ADDRESS 621 - Gibson Rd SE PHONE 294 8602

ARCHITECT Bill Buckley CONTACT Bill Buckley

ADDRESS 740 San Mateo NE PHONE 255-9196

SURVEYOR A & E Engr. Inc CONTACT John Esquibel

ADDRESS San Pedro NE PHONE

CONTRACTOR Enchantment Heating CONTACT R.S Polk

ADDRESS 621 Gibson PHONE 294-8602

DATE SUBMITTED 4/11/84

BY John F Esquibel

Enchantment Heat
294-6802

RECEIVED
APR 23 1984
HYDROLOGY SECTION

A&E ENGINEERING INC.

CIVIL ENGINEERING, LAND PLANNING, AND SURVEYING

April 23, 1984

City of Albuquerque
Design Hydrology Section
123 Central NW
Albuquerque, New Mexico 87102

Attn: Mr. Billy J. Goolsby

RE: 701 Gibson Road SE

Dear Sir:

Enclosed please find onsite calculations and drainage area map for 701 Gibson Road SE.

If any further information is required please feel free to contact me.

Very truly yours,

A & E ENGINEERING, INC.

John F. Esquibel, President

JFE:mhe

1330 SAN PEDRO N.E.
SUITE 101 (505) 266-8791
ALBUQUERQUE, NEW MEXICO 87110

OFFSITE RUNOFF

THIS SITE HAS A SMALL AREA CONTRIBUTING OFFSITE RUNOFF (0.60 ACRES) THIS IS DUE TO AN EXISTING CATCH BASIN AT THE INTERSECTION OF ROSS AVENUE S.E. AND WALTER STREET S.E. WHICH INTERCEPTS THE RUNOFF TO THE EAST OF THE SITE. THE AREA CONSIDERED AS OFFSITE IS 0.60 ACRES IS THE AREA EAST OF THE SITE BETWEEN THE ALLEY AND ROSS AVENUE S.E. THE RUNOFF WILL FLOW ACROSS THIS SITE'S PARKING LOT AND INTO EDITH WHERE IT IS INTERCEPTED BY AN EXISTING CATCH BASIN.

OFFSITE RUNOFF CALCULATIONS

Q = CIA

C = 0.60 I = 4.65 A = 0.58

Q = 0.60 (4.65) (0.58) = 1.62 cfs

DETERMINE PEAK FLOW RATE

ROOF AND PAVEMENT AREA	=	16321.8 S.F.
DIRT AREA (Natural gr.)	=	1496.0 S.F.
TOTAL DRAINAGE AREA CONTRIBUTING TO RUNOFF	=	17819.8 S.F.

COMPOSITE "C" FACTOR = $0.9 \frac{(16321.8 + 0.6(1496)}{17817.8} = 0.87$

"C" = 0.75 Q peak = CiA: A = 0.409 S.F. i = 4.65

Q peak = 0.87(2.20)(0.409) (2.2) = 1.65 cfs.

Developed peak Q_{100} = 1.65 cfs.

Total Q = Developed Q_{100} + Q_{100} Offsite

Q_{100} = 1.65 + 1.62 = 3.27 cfs

Q_{10} = 0.657 (3.25) = 2.15 cfs.

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

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

April 26, 1984

Mr. Bo K. Johnson
A & E Engineering, Inc.
1330 San Pedro NE
Suite 101
Albuquerque, NM 87110

REF: LOT 5A, BLOCK 13 TORREON ADDITION (L14-D11)

Dear Mr. Johnson:

Based on the information provided on your April 16, 1984 submittal of the above referenced drainage plan, listed below are certain concerns that will need to be addressed before final approval is granted:

1. Information sheet with resubmittal.

2. Professional's stamp with signature and resubmittal date (readable).

3. Based on a field investigation conducted on April 24, 1984, you will need to reanalyze the off-site contributing watershed to include the areas extending all the way to I-25 and also you will have to evaluate the adequacy of existing systems.

4. You will also need to evaluate the adequacy of the existing catchbasin on Edith to determine if the system is capable of handling the revised off-site contributing watershed plus the developed runoff.

5. Please include filed plat for above referenced drainage site on your resubmittal.

6. You will need to show more spot elevations along the property line adjacent to Gibson Road, SE. Elevation of property line must be at least .33' above adjacent top of curb.

7. City Engineer approved street and alley grades required when site abuts a dedicated unpaved street or alley.

8. Any data provided along with the drainage plan will need to be stamped and dated by the engineer that prepared it.

If you have any questions regarding the above comments, please feel free to call me at 766-7644.

Sincerely,

Bernie J. Montoya

Bernie J. Montoya
Hydrologic Engineering Tech. CE

BJM:mrk

TRINITY ENTERPRISES, INC.
TRINITY HOMES

Civil Engineers
Land Planners
Developers
Home Builders

9800 Lagrima de Oro Road N.E.
Albuquerque, New Mexico 87111
(505) 293-6904

June 7, 1984

City of Albuquerque
Design Hydrology Section
123 Central N.W.
Albuquerque, New Mexico 87102

Attn: Bernie J.Montoya; Hydrologic Engineering Tech. CE

RE: Lot 5A, Block 13 Torreon Addition (L14-D11)

Dear Sir,

In response to your letter dated April 26, 1984 regarding the above referenced subject.

1. An information sheet is enclosed with this resubmittal.

2. Professional's stamp with signature and resubmittal date is submitted now and is readable on the enclosed copies.

3. In reference to item #3, we have contacted Mr. Fink of the Hydrology Department and he has informed us that the offsite contributing watershed for the area extending from I-25 to the intersection of Walter & Ross Avenue can be handled by the existing Catch Basin at this particular location. Presently a Public Works Contract #2016 is for the purpose of upgrading and cleaning the existing Catch Basin on Walter & Ross Avenue. This contract will upgrade the adequacy of this existing Catch Basin system and will be capable of handling the above referrenced runoff.

4. In reference to item #4, Mr. Fink and Mr. Esquibel have analyzed the adequacy of the existing Catch Basin on Edith and the downstream conditions. Attached is a computed Hydrograph for the downstream conditions which indicate that the Catch Basin on Edith as well as the downstream conditions can handle the additional runoff generated by this development. The basins can carry 164. cfs and the study prepared for the City of Albuquerque indicated that they are carrying a capacity of 157.5 cfs. This point of analysis is at the intersection of Anderson Avenue at Broadway Boulevard.

5. Enclosed you will find a recorded copy of the plat for your reference.

6. The revised plan shows the elevations at property 0.33 feet above the adjacent top of curve.

7. In reference to item #7, the owner Mr. Richard S. Polk has made arrangements with the City Engineer concerning the alley grades.

8. All of the submitted information prior to this resubmittal and including this resubmittal has been prepared by a registered engineer under his direction and supervision.

Thank you for your review and approval of this report.

Very truly yours,

Bo Johnson

INFORMATION SHEET

PROJECT TITLE 701 GIBSON S.E. TYPE OF SUBMITTAL FINAL RESUBMITTAL

ZONE ATLAS PAGE NO. L14D11 CITY ADDRESS 701 GIBSON S.E.

LEGAL DESCRIPTION LOT 5A, BLOCK 13, TORREON ADDITION.

ENGINEERING FIRM A & E ENGINEERING CONTACT JOHN F. ESQUIBEL or BO K. JOHNSON

ADDRESS 1330 San Pedro N.E. PHONE 266-8791

OWNER R.S. Polk CONTACT

ADDRESS 701 GIBSON S.E. PHONE

ARCHITECT BILL BUCKLEY CONTACT

ADDRESS 9910 Indian School N.E. PHONE

SURVEYOR A & E ENGINEERING, INC. CONTACT

ADDRESS 1330 SAN PEDRO N.E. PHONE

CONTRACTOR ENCHANTMENT HEATING CONTACT

ADDRESS 9910 INDIAN SCHOOL N.E. PHONE

PRE-DESIGN MEETING:

X YES
NO
X COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

SKETCH PLAT APPROVAL
PRELIMINARY PLAT APPROVAL
SITE DEVELOPMENT PLAN APPROVAL
FINAL PLAT APPROVAL
X BUILDING PERMIT APPROVAL
CERTIFICATE OF OCCUPANCY APPROVAL
ROUGH GRADING PERMIT APPROVAL
GRADING/PAVING PERMIT APPROVAL
OTHER _____ (SPECIFY)

DATE SUBMITTED: Friday June 15, 1984

BY: John F. Esquibel

RECEIVED
JUN 13 1984
HYDROLOGY SECTION

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

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

June 27, 1984

7/12/84

Mr. Bo K. Johnson
A & E Engineering, Inc.
1330 San Pedro NE
Suite 101
Albuquerque, New Mexico 87110

REF: LOT 5A, BLOCK 13 TORREOR ADDITION (L14-D11) JUNE 13, 1984.

Dear Mr. Johnson:

Based on the information provided on your June 13, 1984 resubmittal of the above referenced drainage plan, listed below are certain items that will need to be addressed before final approval is granted:

Submitted 1. Information sheet with resubmittal date.

Submitted 2. Professional's stamp with signature and resubmittal date (stamp must also be readable).

Enclosed 3. What is the amount of the revised contributing area extending from I-25 to the intersection of Walter and Ross. (I need numbers for the off-site flows).

Reply Submitted 4. You will need to incorporate the approved City alley grades on your design.

If you have any questions, please feel free to call me at 766-7644.

Sincerely,

RECEIVED JUL 13 1984 HYDROLOGY SECTION

Billy J. Goolsby

Billy J. Goolsby, PE
City/County Flood Plain Admin.

BJM/BJG/cl

In conformance with Item #3 of your letter of June 27, 1984 we are transmitting the required calculations for the purpose of obtaining a building permit.

The following calculations are derived from the City of Albuquerque Public Works Topographical Maps L-14, L-15 and M-15.

The capacity of the existing catch basin (S-815) at the intersection of Ross Avenue and Walter Street SE is 126.0 cfs. having a 48" RCP outlet at slope of 0.102 and a velocity 10.01 f.p.s.

This information was obtained from the Albuquerque Master Drainage Study, Volume 1, January 1981, Appendix B, Pages 1B - 76 and 1B - 77.

The drainage study attached herein shows the draining area that drains to the existing catch basin at the intersection of Ross Avenue and Walter Street SE contributes the following runoff.

By using the Rational Formula

$$Q_{peak} = CIA$$

Total Area = 18.3 Acre

Pavement Area = 2.6 Acres C = 0.90

Landscape & Natural
Ground Area = 15.7 Acres C= 0.4

Composite"C" Factor

$$\frac{0.9\ (2.6\ Ac) + 0.4\ (15.7)}{18.3} = \frac{2.34 + 6.28}{18.3} = \frac{8.62}{18.3} = 0.47$$

use 0.50 for Calculations

$$Q_{peak} = CIA$$

C= 0.50 I = 4.65 A - 18.3A

$$Q_{peak} = (0.50)\ (4.65)\ (18.3) = 42.54 \text{ cfs}$$

INFORMATION SHEET

PROJECT TITLE 701 Gibson TYPE OF SUBMITTAL Final (3rd Time)

ZONE ATLAS PAGE NO. L-14 D11 CITY ADDRESS 701 Gibson, SE, Albuq, N.M. 87102

LEGAL DESCRIPTION Lot 5A, Block 13, Torreon Addition

ENGINEERING FIRM A&E Engineering, Inc. CONTACT John F. Esquibel

ADDRESS 1330 San Pedro Ne, PHONE 266-8791

OWNER R.S.Polk CONTACT R.S. Polk

ADDRESS 621 Gibson Se PHONE 294-6802

ARCHITECT ____ CONTACT ____

ADDRESS ____ PHONE ____

SURVEYOR John F. Esquibel CONTACT John F. Esquibel

ADDRESS 1330 San Pedro Ne PHONE 266-8791

CONTRACTOR ____ CONTACT ____

ADDRESS ____ PHONE ____

PRE-DESIGN MEETING:

___ YES
___ NO
___ COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

___ SKETCH PLAT APPROVAL
___ PRELIMINARY PLAT APPROVAL
___ SITE DEVELOPMENT PLAN APPROVAL
___ FINAL PLAT APPROVAL
X BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY APPROVAL
___ ROUGH GRADING PERMIT APPROVAL
___ GRADING/PAVING PERMIT APPROVAL
___ OTHER ____ (SPECIFY)

DATE SUBMITTED: July 3, 1984

BY: [signature] 7/10/84

RECEIVED JUL 11 1984 HYDROLOGY SECTION

A&E ENGINEERING INC.
CIVIL ENGINEERING, LAND PLANNING, AND SURVEYING

Mr Goolsby,
Flow numbers will follow on 7/11/84 A.M.

From John Esquibel

RECEIVED
JUL 11 1984
HYDROLOGY SECTION

1330 SAN PEDRO N.E.
SUITE 101 (505) 266-8791
ALBUQUERQUE, NEW MEXICO 87110

Update

INFORMATION SHEET

Update Resubmit

PROJECT TITLE 701 Gibson TYPE OF SUBMITTAL Final

ZONE ATLAS PAGE NO. L-14 D11 CITY ADDRESS

LEGAL DESCRIPTION Lot 5A of Block 13 Torreon Addition

ENGINEERING FIRM A & E Eng CONTACT R. Johnson John Esquibel

ADDRESS 1330 San Pedro NE PHONE 266-8791

OWNER Enchanted Healy CONTACT ~~701 Gibson SE~~ Richard Polk

ADDRESS 700 Gibson SE PHONE 294 6802

ARCHITECT Bill Buckly CONTACT

ADDRESS PHONE

SURVEYOR A & E Eng Inc CONTACT John F Esquibel

ADDRESS 1330 San Ped PHONE 266-8791

CONTRACTOR Enchanted Healy CONTACT Richard Polk

ADDRESS 700 Gibson SE PHONE 294 6802

PRE-DESIGN MEETING:

✓ YES
___ NO
✓ COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

___ SKETCH PLAT APPROVAL
___ PRELIMINARY PLAT APPROVAL
___ SITE DEVELOPMENT PLAN APPROVAL
___ FINAL PLAT APPROVAL
✓ BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY APPROVAL
___ ROUGH GRADING PERMIT APPROVAL
___ GRADING/PAVING PERMIT APPROVAL
___ OTHER _____ (SPECIFY)

RECEIVED
JUL 13 1984
HYDROLOGY SECTION

DATE SUBMITTED: 7-13-84

BY: John Esquibel

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

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

July 18, 1984

Mr. Bo K. Johnson
A & E Engineering, Inc.
1330 San Pedro NE
Albuquerque, NM 87110

REF: LOT 5A, BLOCK 13, TORREON ADDITION (L14-D11)

Dear Mr. Johnson:

Based on the information provided on your July 13, 1984 resubmittal, the above referenced drainage plan is approved.

Please advise your client that if he does any work within the alley, he will be responsible for making sure that the adjacent properties aren't disturbed without the property owners concurrence.

If you have any questions, please feel free to call me at 766-7644.

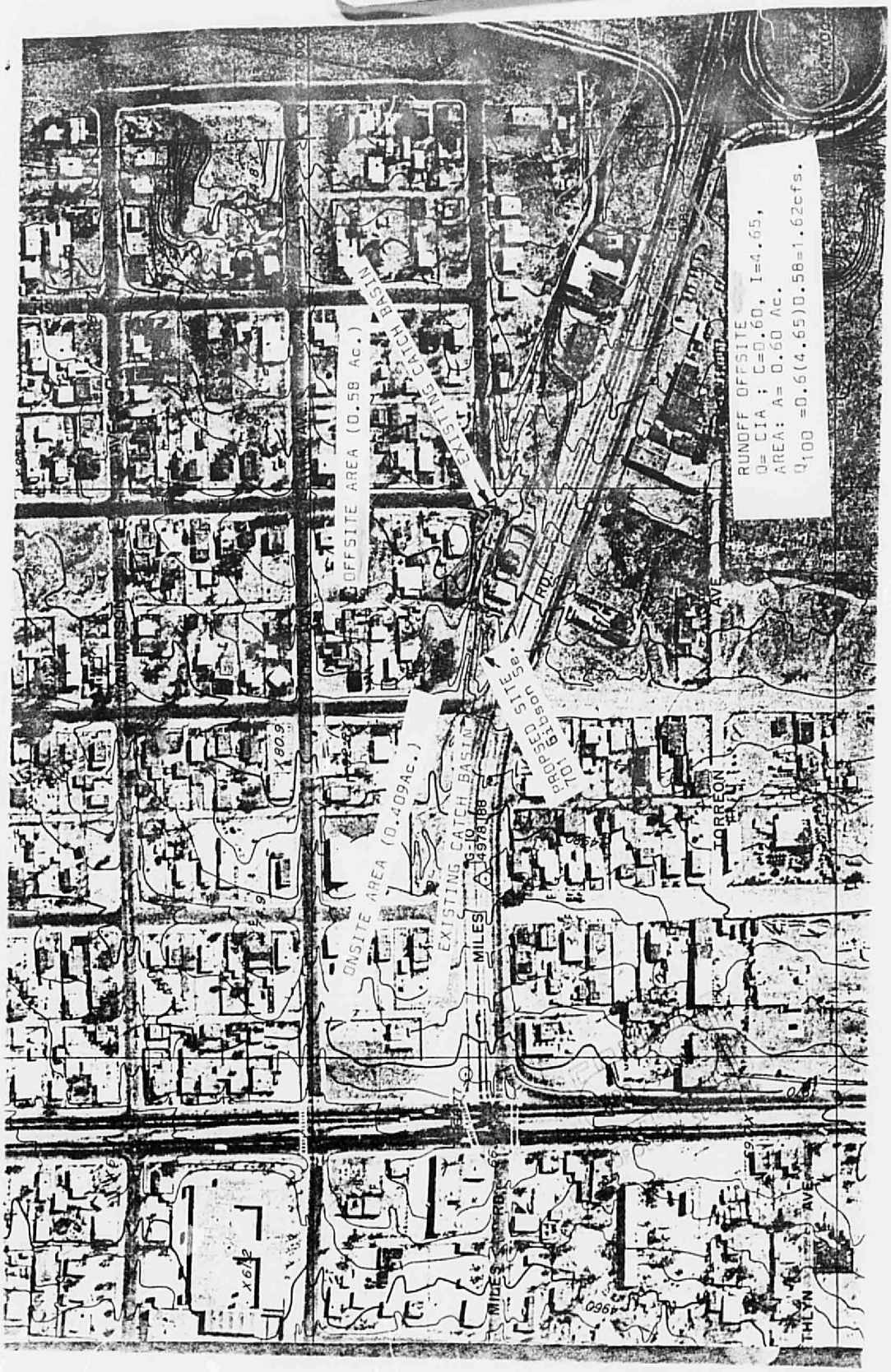
Sincerely yours,

Billy J. Goolsby

Billy J. Goolsby, PE
City/County Flood Plain Admin.

BJG:BJM:mrk

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



```
*COMPUTE HYD ABOVE AP153 ANDERSON AVE AT BROADWAY BLVD
COMPUTE HYD          ID=13
                     HYD=153
                     DT=.02
                     DA=.0619
                     CN=78
                     K=-.0706
                     TP=-.1412
                     MASS RNFL=-1
    SHAPE CONSTANT, N =  7.947
    UNIT PEAK =       247.5CFS

PRINT HYD            ID=13      CODE=10

                   HYDROGRAPH NUMBER  153
```

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
0.000	0.	2.000	3.	4.000	1.
0.200	58.	2.200	2.	4.200	1.
0.400	18.	2.400	2.	4.400	1.
0.600	11.	2.600	2.	4.600	1.
0.800	7.	2.800	2.	4.800	1.
1.000	6.	3.000	2.	5.000	1.
1.200	4.	3.200	2.	5.200	1.
1.400	4.	3.400	2.	5.400	1.
1.600	3.	3.600	1.	5.600	1.
1.800	3.	3.800	1.	5.800	1.

```
    RUNOFF VOLUME =        2.360 ACRE-FT
    PEAK DISCHARGE RATE =     68.8 CFS
    PEAK OCCURRED AT  0.16 HRS.

DIVIDE HYD           ID=13      Q=-.40
                     ID=14      HYD=153
                     ID=15      HYD=154
```

100 year AMDS Flow
Jim Zurb
6/6/84

Peak Flow AMDS 100 year San Jose Page 58

157.5 c/s Jim Zurb

164.0 cfs → 1877

HYDROLOGY L14/D11 ONE PLAN

L 14-D 11

1 PLAN

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

HYDROLOGY SECTION PROJ. NO. 6-64 DATE: 3/26/84

PLANNING DIVISION NO. _____

CONFERENCE RECAP

SUBJECT: Lot 5A (701 Gibson Rd SE)

WHO	REPRESENTING
ATTENDANCE: Richard Polk	Owner
Billy Goolsby	

FINDINGS: ① Drainage Plan per DPM required
② Free discharge allowed.
③ Existing conveyance across property to remain. Unless it can be demonstrated that flows can diverted around site without creating adverse impacts upstream.
④ Approved alley grades required.

Please provide a copy of recap w/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: Billy J. Goolsby SIGNED: [illegible]

TITLE: CE/Hydrology TITLE: _____

DATE: 3/26/84 DATE: _____

INFORMATION SHEET

PROJECT TITLE Warehouse TYPE OF SUBMITTAL Drainage/Final

ZONE ATLAS PAGE NO. L-14-Z CITY ADDRESS 701 Gibson Blvd SE

LEGAL DESCRIPTION Lot 5A - Block 13 Torreon Add.

ENGINEERING FIRM A.C.E. Engr. Inc. CONTACT John F Esquibel

ADDRESS 1330 San Pedro PHONE 266-8791

OWNER Richard S Polk CONTACT Richard S Polk

ADDRESS 621 Gibson Blvd SE PHONE 294-8602

ARCHITECT Bill Buckley CONTACT Bill

ADDRESS 740 San Mateo NE PHONE 255-9196

SURVEYOR ACE Engr. Inc CONTACT John F Esquibel

ADDRESS 1330 San Pedro NE PHONE 2668791

CONTRACTOR Enchantment Heating CONTACT R.S Polk

ADDRESS 621 Gibson Blvd SE PHONE 294 8602

PRE-DESIGN MEETING:

X YES
___ NO
X COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

___ SKETCH PLAT APPROVAL
___ PRELIMINARY PLAT APPROVAL
___ SITE DEVELOPMENT PLAN APPROVAL
___ FINAL PLAT APPROVAL
X BUILDING PERMIT APPROVAL
X CERTIFICATE OF OCCUPANCY APPROVAL
___ ROUGH GRADING PERMIT APPROVAL
___ GRADING/PAVING PERMIT APPROVAL
___ OTHER _____ (SPECIFY)

RECEIVED
APR 16 1984
HYDROLOGY SECTION

DATE SUBMITTED: 4/13/84

BY: John F Esquibel

4/19/84

Michelle,

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Maybe John or Fred can.

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Billy

Fred

Do you want to handle this

4/23/84

INFORMATION SHEET

PROJECT TITLE Warehouse (RS Polk) TYPE OF SUBMITTAL Drainage Final

ZONE ATLAS PAGE NO. L-14-Z-D11 CITY ADDRESS 701 Gibson Rd SE

LEGAL DESCRIPTION Lot 5A - Block 13 Torreon Addition

ENGINEERING FIRM A & E Engr Inc CONTACT John F Esquibel

ADDRESS 1330 San Pedro NE PHONE 266-8791

OWNER Richard S Polk CONTACT Richard Polk

ADDRESS 621 - Gibson Rd SE PHONE 294-8602

ARCHITECT Bill Buckley CONTACT Bill Buckley

ADDRESS 740 San Mateo NE PHONE 255-9196

SURVEYOR A & E Engr. Inc CONTACT John Esquibel

ADDRESS San Pedro NE PHONE

CONTRACTOR Enchantment Heating CONTACT R.S Polk

ADDRESS 621 Gibson PHONE 294-8602

DATE SUBMITTED 4/11/84

BY John F Esquibel

Enchantment Heat
294-6802

APR 23 1984
HYDROLOGY SECTION

A&E ENGINEERING INC.

CIVIL ENGINEERING, LAND PLANNING, AND SURVEYING

April 23, 1984

City of Albuquerque
Design Hydrology Section
123 Central NW
Albuquerque, New Mexico 87102

Attn: Mr. Billy J. Goolsby

RE: 701 Gibson Road SE

Dear Sir:

Enclosed please find onsite calculations and drainage area map for 701 Gibson Road SE.

If any further information is required please feel free to contact me.

Very truly yours,

A & E ENGINEERING, INC.

John F. Esquibel, President

JFE:mhe

1330 SAN PEDRO N.E.
SUITE 101 (505) 266-8791
ALBUQUERQUE, NEW MEXICO 87110

OFFSITE RUNOFF

THIS SITE HAS A SMALL AREA CONTRIBUTING OFFSITE RUNOFF (0.60 ACRES) THIS IS DUE TO AN EXISTING CATCH BASIN AT THE INTERSECTION OF ROSS AVENUE S.E. AND WALTER STREET S.E. WHICH INTERCEPTS THE RUNOFF TO THE EAST OF THE SITE. THE AREA CONSIDERED AS OFFSITE IS 0.60 ACRES IS THE AREA EAST OF THE SITE BETWEEN THE ALLEY AND ROSS AVENUE S.E. THE RUNOFF WILL FLOW ACROSS THIS SITE'S PARKING LOT AND INTO EDITH WHERE IT IS INTERCEPTED BY AN EXISTING CATCH BASIN.

OFFSITE RUNOFF CALCULATIONS

$Q = CIA$

$C = 0.60 \quad I = 4.65 \quad A = 0.58$

$Q = 0.60\ (4.65)\ (0.58) = 1.62$ cfs

DETERMINE PEAK FLOW RATE

ROOF AND PAVEMENT AREA	=	16321.8 S.F.
DIRT AREA (Natural gr.)	=	1496.0 S.F.
TOTAL DRAINAGE AREA CONTRIBUTING TO RUNOFF	=	17819.8 S.F.

COMPOSITE "C" FACTOR $= 0.9\ \dfrac{(16321.8 + 0.6(1496)}{17817.8} = 0.87$

"C" = 0.75 Q peak = CiA: A = 0.409 S.F. i = 4.65

Q peak = 0.87(2.20)(0.409) (2.2) = 1.65 cfs.

Developed peak Q_{100} = 1.65 cfs.

Total Q = Developed Q_{100} + Q_{100} Offsite

$Q_{100} = 1.65 + 1.62 = 3.27$ cfs

$Q_{10} = 0.657\ (3.25) = 2.15$ cfs.

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

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

April 26, 1984

Mr. Bo K. Johnson
A & E Engineering, Inc.
1330 San Pedro NE
Suite 101
Albuquerque, NM 87110

REF: LOT 5A, BLOCK 13 TORREON ADDITION (L14-D11)

Dear Mr. Johnson:

Based on the information provided on your April 16, 1984 submittal of the above referenced drainage plan, listed below are certain concerns that will need to be addressed before final approval is granted:

1. Information sheet with resubmittal.

2. Professional's stamp with signature and resubmittal date (readable).

3. Based on a field investigation conducted on April 24, 1984, you will need to reanalyze the off-site contributing watershed to include the areas extending all the way to I-25 and also you will have to evaluate the adequacy of existing systems.

4. You will also need to evaluate the adequacy of the existing catchbasin on Edith to determine if the system is capable of handling the revised off-site contributing watershed plus the developed runoff.

5. Please include filed plat for above referenced drainage site on your resubmittal.

6. You will need to show more spot elevations along the property line adjacent to Gibson Road, SE. Elevation of property line must be at least .33' above adjacent top of curb.

7. City Engineer approved street and alley grades required when site abuts a dedicated unpaved street or alley.

8. Any data provided along with the drainage plan will need to be stamped and dated by the engineer that prepared it.

If you have any questions regarding the above comments, please feel free to call me at 766-7644.

Sincerely,

Bernie J. Montoya

Bernie J. Montoya
Hydrologic Engineering Tech. CE

BJM:mrk

TRINITY ENTERPRISES, INC.
TRINITY HOMES

Civil Engineers
Land Planners
Developers
Home Builders

9800 Lagrima de Oro Road N.E.
Albuquerque, New Mexico 87111
(505) 293-6904

June 7, 1984

City of Albuquerque
Design Hydrology Section
123 Central N.W.
Albuquerque, New Mexico 87102

Attn: Bernie J.Montoya; Hydrologic Engineering Tech. CE

RE: Lot 5A, Block 13 Torreon Addition (L14-D11)

Dear Sir,

In response to your letter dated April 26, 1984 regarding the above referenced subject.

1. An information sheet is enclosed with this resubmittal.

2. Professional's stamp with signature and resubmittal date is submitted now and is readable on the enclosed copies.

3. In reference to item #3, we have contacted Mr. Fink of the Hydrology Department and he has informed us that the offsite contributing watershed for the area extending from I-25 to the intersection of Walter & Ross Avenue can be handled by the existing Catch Basin at this particular location. Presently a Public Works Contract #2016 is for the purpose of upgrading and cleaning the existing Catch Basin on Walter & Ross Avenue. This contract will upgrade the adequacy of this existing Catch Basin system and will be capable of handling the above referrenced runoff.

4. In reference to item #4, Mr. Fink and Mr. Esquibel have analyzed the adequacy of the existing Catch Basin on Edith and the downstream conditions. Attached is a computed Hydrograph for the downstream conditions which indicate that the Catch Basin on Edith as well as the downstream conditions can handle the additional runoff generated by this development. The basins can carry 164. cfs and the study prepared for the City of Albuquerque indicated that they are carrying a capacity of 157.5 cfs. This point of analysis is at the intersection of Anderson Avenue at Broadway Boulevard.

5. Enclosed you will find a recorded copy of the plat for your reference.

6. The revised plan shows the elevations at property 0.33 feet above the adjacent top of curve.

7. In reference to item #7, the owner Mr. Richard S. Polk has made arrangements with the City Engineer concerning the alley grades.

8. All of the submitted information prior to this resubmittal and including this resubmittal has been prepared by a registered engineer under his direction and supervision.

Thank you for your review and approval of this report.

Very truly yours,

Bo Johnson

INFORMATION SHEET

PROJECT TITLE 701 GIBSON S.E. TYPE OF SUBMITTAL FINAL RESUBMITTAL

ZONE ATLAS PAGE NO. L14D11 CITY ADDRESS 701 GIBSON S.E.

LEGAL DESCRIPTION LOT 5A, BLOCK 13, TORREON ADDITION

ENGINEERING FIRM A & E ENGINEERING CONTACT JOHN F. ESQUIBEL or BO K. JOHNSON

ADDRESS 1330 San Pedro N.E. PHONE 266-8791

OWNER R.S. Polk CONTACT

ADDRESS 701 GIBSON S.E. PHONE

ARCHITECT BILL BUCKLEY CONTACT

ADDRESS 9910 Indian School N.E. PHONE

SURVEYOR A & E ENGINEERING, INC. CONTACT

ADDRESS 1330 SAN PEDRO N.E. PHONE

CONTRACTOR ENCHANTMENT HEATING CONTACT

ADDRESS 9910 INDIAN SCHOOL N.E. PHONE

PRE-DESIGN MEETING:

X YES
___ NO
X COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

___ SKETCH PLAT APPROVAL
___ PRELIMINARY PLAT APPROVAL
___ SITE DEVELOPMENT PLAN APPROVAL
___ FINAL PLAT APPROVAL
X BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY APPROVAL
___ ROUGH GRADING PERMIT APPROVAL
___ GRADING/PAVING PERMIT APPROVAL
___ OTHER _____ (SPECIFY)

DATE SUBMITTED: Friday June 15, 1984

BY: John F. Esquibel

RECEIVED
JUN 13 1984
HYDROLOGY SECTION

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

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

June 27, 1984

7/12/84

Mr. Bo K. Johnson
A & E Engineering, Inc.
1330 San Pedro NE
Suite 101
Albuquerque, New Mexico 87110

REF: LOT 5A, BLOCK 13 TORREOR ADDITION (L14-D11) JUNE 13, 1984.

Dear Mr. Johnson:

Based on the information provided on your June 13, 1984 resubmittal of the above referenced drainage plan, listed below are certain items that will need to be addressed before final approval is granted:

Submitted 1. Information sheet with resubmittal date.

Submitted 2. Professional's stamp with signature and resubmittal date (stamp must also be readable).

Enclosed 3. What is the [illegible]t of the revised contributing area extending from I-25 to the intersection of Walter and Ross. (I need numbers for the off-site flows).

Reply Submitted 4. You will need to incorporate the approved City alley grades on your design.

If you have any questions, please feel free to call me at 766-7644.

Sincerely,

Billy J. Coolsby

Billy J. Coolsby, PE
City/County Flood Plain Admin.

RECEIVED
JUL 13 1984
HYDROLOGY SECTION

BJM/BJG/cl

In conformance with Item #3 of your letter of June 27, 1984 we are transmitting the required calculations for the purpose of obtaining a building permit.

The following calculations are derived from the City of Albuquerque Public Works Topographical Maps L-14, L-15 and M-15.

The capacity of the existing catch basin (S-815) at the intersection of Ross Avenue and Walter Street SE is 126.0 cfs. having a 48" RCP outlet at slope of 0.102 and a velocity 10.01 f.p.s.

This information was obtained from the Albuquerque Master Drainage Study, Volume 1, January 1981, Appendix B, Pages 1B - 76 and 1B - 77.

The drainage study attached herein shows the draining area that drains to the existing catch basin at the intersection of Ross Avenue and Walter Street SE contributes the following runoff.

By using the Rational Formula

$$Q_{peak} = CIA$$

Total Area = 18.3 Acre

Pavement Area = 2.6 Acres C = 0.90

Landscape & Natural
Ground Area = 15.7 Acres C= 0.4

Composite"C" Factor

$$\frac{0.9\ (2.6\ Ac) + 0.4\ (15.7)}{18.3} = \frac{234 + 6.28}{18.3} = \frac{8.62}{18.3} = 0.47$$

use 0.50 for Calculations

$$Q_{peak} = CIA$$

$$C = 0.50 \quad I = 4.65 \quad A - 18.3A$$

$$Q_{peak} = (0.50)\ (4.65)\ (18.3) = 42.54 \text{ cfs}$$

INFORMATION SHEET

PROJECT TITLE 701 Gibson TYPE OF SUBMITTAL Final (3rd Time)

ZONE ATLAS PAGE NO. L-14 CITY ADDRESS 701 Gibson, SE, Albuq, N.M. 87102

LEGAL DESCRIPTION Lot 5A, Block 13, Torreon Addition

ENGINEERING FIRM A&E Engineering, Inc. CONTACT John F. Esquibel

ADDRESS 1330 San Pedro Ne, PHONE 266-8791

OWNER R.S.Polk CONTACT R.S. Polk

ADDRESS 621 Gibson Se PHONE 294-6802

ARCHITECT ____ CONTACT ____

ADDRESS ____ PHONE ____

SURVEYOR John F. Esquibel CONTACT John F. Esquibel

ADDRESS 1330 San Pedro Ne PHONE 266-8791

CONTRACTOR ____ CONTACT ____

ADDRESS ____ PHONE ____

PRE-DESIGN MEETING:

___ YES
___ NO
___ COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

___ SKETCH PLAT APPROVAL
___ PRELIMINARY PLAT APPROVAL
___ SITE DEVELOPMENT PLAN APPROVAL
___ FINAL PLAT APPROVAL
X BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY APPROVAL
___ ROUGH GRADING PERMIT APPROVAL
___ GRADING/PAVING PERMIT APPROVAL
___ OTHER ____ (SPECIFY)

DATE SUBMITTED: July 3, 1984

BY: [signature] 7/10/84

RECEIVED
JUL 11 1984
HYDROLOGY SECTION

A&E ENGINEERING INC.
CIVIL ENGINEERING, LAND PLANNING, AND SURVEYING

Mr Goolsby,
Flow numbers will follow on 7/11/84 A.M.

From John Esquibel

RECEIVED
JUL 11 1984
HYDROLOGY SECTION

*330 SAN PEDRO N.E.
SUITE 101 (505) 266-8791
ALBUQUERQUE, NEW MEXICO 87110

Update

INFORMATION SHEET

Update Retainage

PROJECT TITLE 701 Gibson TYPE OF SUBMITTAL Final

ZONE ATLAS PAGE NO. L-14 D11 CITY ADDRESS

LEGAL DESCRIPTION Lot 5A of Block 13 Terrace Addition

ENGINEERING FIRM A & E Eng CONTACT R. Johnson / John Esquibel

ADDRESS 1330 San Pedro NE PHONE 266-8791

OWNER Enchanted Healy CONTACT ~~205 Gibson SE~~ Richard Polk

ADDRESS 700 Gibson S.E. PHONE 294 6802

ARCHITECT Bill Buckley CONTACT

ADDRESS PHONE

SURVEYOR A & E Eng Inc CONTACT John F Esquibel

ADDRESS 1330 San Ped PHONE 266-8791

CONTRACTOR Enchanted Healy CONTACT Richard Polk

ADDRESS 700 Gibson S.E. PHONE 294 6802

PRE-DESIGN MEETING:

✓ YES
___ NO
✓ COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

___ SKETCH PLAT APPROVAL
___ PRELIMINARY PLAT APPROVAL
___ SITE DEVELOPMENT PLAN APPROVAL
___ FINAL PLAT APPROVAL
✓ BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY APPROVAL
___ ROUGH GRADING PERMIT APPROVAL
___ GRADING/PAVING PERMIT APPROVAL
___ OTHER _____ (SPECIFY)

RECEIVED
JUL 13 1984
HYDROLOGY SECTION

DATE SUBMITTED: 7/13/84

BY: John Esquibel

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

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

July 18, 1984

Mr. Bo K. Johnson
A & E Engineering
1330 San Pedro NE
Albuquerque, NM 87

REF: LOT 5A, BLOCK 13, TORREON ADDITION (L14-D11)

Dear Mr. Johnson:

Based on the information provided on your July 13, 1984 resubmittal, the above referenced drainage plan is approved.

Please advise your client that if he does any work within the alley, he will be responsible for making sure that the adjacent properties aren't disturbed without the property owners concurrence.

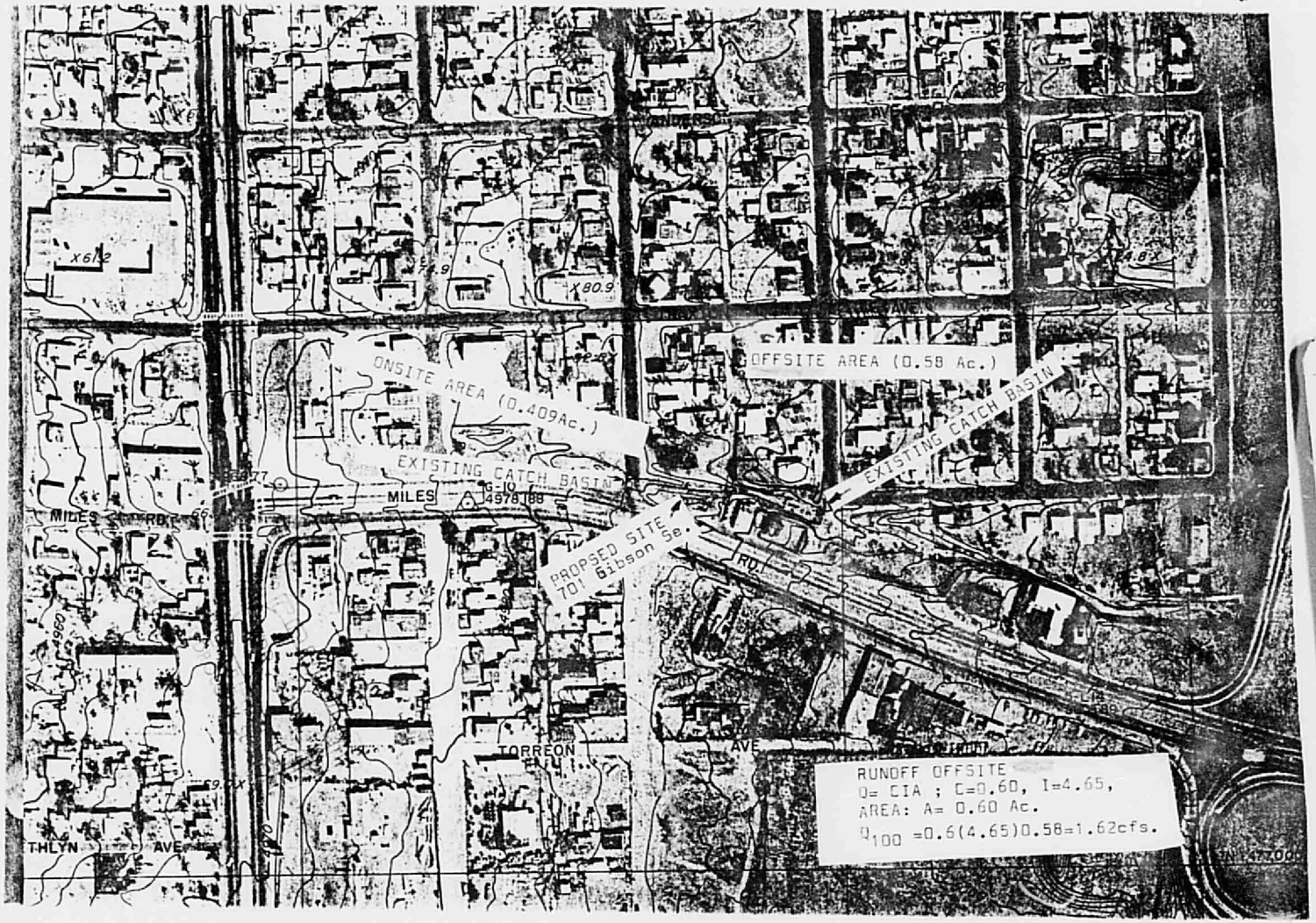
If you have any questions, please feel free to call me at 766-7644.

Sincerely yours,

Billy J. Goolsby

Billy J. Goolsby, PE
City/County Flood Plain Admin.

BJG:BJM:mrk



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

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*COMPUTE HYD ABOVE AP153 ANDERSON AVE AT BROADWAY BLVD
COMPUTE HYD          ID=13
                     HYD=153
                     DT=.02
                     DA=.0619
                     CN=78
                     K=-.0706
                     TP=-.1412
                     MASS RNFL=-1
    SHAPE CONSTANT, N =  7.947
    UNIT PEAK =       247.5CFS

PRINT HYD            ID=13      CODE=10

                    HYDROGRAPH NUMBER  153
```

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
0.000	0.	2.000	3.	4.000	1.
0.200	58.	2.200	2.	4.200	1.
0.400	18.	2.400	2.	4.400	1.
0.600	11.	2.600	2.	4.600	1.
0.800	7.	2.800	2.	4.800	1.
1.000	6.	3.000	2.	5.000	1.
1.200	4.	3.200	2.	5.200	1.
1.400	4.	3.400	2.	5.400	1.
1.600	3.	3.600	1.	5.600	1.
1.800	3.	3.800	1.	5.800	1.

```
    RUNOFF VOLUME =        2.360 ACRE-FT
    PEAK DISCHARGE RATE =        66.8 CFS
    PEAK OCCURRED AT  0.16 HRS.

DIVIDE HYD           ID=13      Q=-.40
                     ID=14      HYD=153
                     ID=15      HYD=154
```

100 year AMDS Flow
Jim Fuller
6/6/84

Peak Flow AMDS 100 year San Jose Page 58

157.5 c/s Jim Fuller

164.0 cfs → 1877