

# City of Albuquerque

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

October 8, 1985

Mr. Frank Lovelady Lovelady & Associates 7408 Morrow Road NE Albuquerque, NM 87110

REF: DRAINAGE PLAN FOR BLAKES LOTA BURGER (J13-D30) ENGINEER'S STAMP DATED 9/30/85

Dear Frank:

Based on the information provided on your October 1, 1985 submittal, the above referenced drainage plan is approved for Building Permit.

Please attach a copy of this approved drainage plan along with the appropriately approved "Construction Within City R/W" document to the construction sets before Hydrology will sign-off.

If I can  $b_2$  of further assistance, please feel free to call me at 766-7644.

City/County Flood Plain Admin.

CAM: BJM:mrk

MUNICIPAL DEVELOPMENT DEPARTMENT

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

**ENGINEERING DIVISION** 

Telephone (505) 766-7467

AN EQUAL OPPORTUNITY EMPLOYER



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

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 17102 (505) 766-7644

September 26, 1985

Frank Lovelady Lovelady & Assoc. 7408 Morrow Rd. NE Albuquerque, NM 87110

REF: BLAKES LOTA BURGER (J13-D30)

Dear Mr. Lovelady:

A preliminary review of your submittal for final plat and building permit approval has shown that the following information is lacking for this section to begin the review process:

# Information Needed:

- Analysis of downstream capacity.
   Approved copy of replat required before building possit is issued.

### Plan Drawing:

- Bench Mark description/location and elvation.
   TBM to full mean level designation.
   Location and/or direction of flow for roof-drains. 4. Please identify if Carson Rd. is designated as a private access, if not, approved street grades will be required.

Please provide this information so that we may process your request as expediently as possible.

Cordially,

Borney J. Modey & City/Design/Hydrology Section

BJM/cl

MUNICIPAL DEVELOPMENT DEPARTMENT

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

ENGINEERING DIVISION

Telephone (505) 766-7467

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DRAINAGE INFORMATION SHEET RESUBMITTAL

PROJECT TITLE: Blakes Lotaburger ZONE ATLAS/DRNG. FILE #: 513/030 LEGAL DESCRIPTION: Lot A. Pueblo Bonto Addition CITY ADDRESS: 777 Rio Grande Blud NW ENGINEERING FIRM: bouckdy & Associates CONTACT: Frank Lovelady ADDRESS: 3408 MANGOW RA NE PHONE: \_ OWNER: Blakes Lotaburger CONTACT: \_\_\_ PHONE: \_\_\_\_ ADDRESS: \_\_\_ ARCHITECT: Ken Hovey Design Group CONTACT: Ken Hovey ADDRESS: 335 Tefferson SE Suite B PHONE: 255-9400 CONTACT: SURVEYOR: ADDRESS: PHGNE: CONTACT: CONTRACTOR: PHONE: PRE-DESIGN MEETING: OCT 0 1 1985 DRB NO. \_\_\_\_\_ HYDROLOGY SECTION EPC ND. \_\_\_NO PROJ. NO. X COPY OF CONFERENCE RECAP SHEET PROVIDED CHECK TYPE OF APPROVAL SOUGHT: TYPE OF SUBMITTAL: SKETCH PLAT APPROVAL DRAINAGE REPORT PRELIMINARY PLAT APPROVAL X BRAINAGE PLAN \_\_ SITE DEVELOPMENT PLAN APPROVAL CONCEPTUAL GRADING & DRAINAGE PLAN FINAL PLAT APPROVAL \_\_\_ GRADING PLAN X BUILDING PERMIT APPROVAL EROSION CONTROL PLAN \_\_\_\_ FOUNDATION PERMIT APPROVAL ENGINEER'S CERTIFICATION \_ CERTIFICATE OF OCCUPANCY APPROVA\_ ROUGH GRADING PERMIT APPROVAL \_\_\_\_ GRADING/PAVING PERMIT APPROVAL \_\_\_\_ OTHER \_\_\_\_\_ (SPECIFY) DATE SUBMITTED: October 1 1995

BY: Fruit D. Forelish

October 1, 1985

Lovelady & Associates 7408 Morrow Road NE Albuquerque, New Mexico 87110

City of Albuquerque Municipal Development Department Engineering Division Design Hydrology Section 123 Central Avenue NW Albuquerque, New Mexico 87102

Subject: Blakes Lotaburger - Project No. J13/D30

Gentlemen:

This is in response to the design review comments prepared by hydrology section for the subject project. I will respond to the comments in order with the same reference numbers shown in your letter. I have attached a copy of the review comments for reference.

Under the heading "INFORMATION NEEDED":

Item #10. Analysis of downstream capacity. Please find a copy of the downstream analysis attached.

Item #11. Approved copy of replat required before building permit is issued. Please find a copy of the approved replat attached.

Under the heading "PLAN DRAWING":

Item#5. Bench Mark description/location and elevation. City Datum information has been added to the drawing in the lower left hand corner.

Item #6.TBM to full mean level designation. Done. See revised keyed note #S on the drawing.

Item \$12. Location and/or direction of flow for roof-drains. Roof drain locations have been added to the drawing.

Item #16. Please identify if Carson Road is Designated as a private access, if not, approved street grades will be required. Carson Road is a private access road and is not a dedicated public right-of-way.

Respectfully yours,

Frank D. Lovelady, PE

#### DOWNSTREAM ANALYSIS

### LOTTABURGER SITE - PROJECT NO. J13/D30

The proposed site is located at the corner of Rio Grande Boulevard and Pueblo Bonito Court on Zone Atlas Grid No. J-13. The area is served by an existing 24-inch storm sewer system designated System No. 124. The system extends north as far as Aspen Avenue, approximately 1,200 feet. The system continues south in Rio Grande Blvd. to Chacoma Place, south in Chacoma Place to Pasquale Avenue, south in Pasquale Avenue to Laguna Boulevard, and south in Laguna Boulevard to the outfall into the Conservancy Lake.

This site is a relatively minor infill site and, for this reason, a detailed analysis of the storm sewer capacity beginning at the outfall and proceeding upstream is not warranted. There is a catch basin on the southwest corner of Rio Grande Boulevard and Pueblo Bonito Court, within a very short distance of the sidewalk culvert that drains the site. Therefore, discharge from the site will enter the storm sewer system almost immediately and the impact on downstream capacity will be relatively slight.

Signature of Engineer

September 30, 1985 Date





C. D. Jana Shappaid, P.E., City Engineer

AN EQUAL OPPORTUNITY EMPLOYER

# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

TO: Frank Lovelady J13-D30 REF: Blakes Lota Burger Dear Mr. Lovelady: approval has shown . A preliminary review of your submittal for that the following information is lacking for this seciton to the review process: Approval Sought A. Sketch Plat B. Preliminary Plat C. Final Plat D. Site Development Plan E. Building Permit F. Rough Grading G. Foundation Only Information Needed : 1. Completed Information Sheet 2. Professional Engineer's Stamp with signature and Date (Revision date) 3. Flood Hazard Detailed Grading Plan showing T.C. & F.L. Elevations (For Preliminary Plat and Rough Grading requests for Subdivisions) Off-site flows - quantification and/or location or treatment. MUNICIPAL DEVELOPMENT DEPARTMENT Telephone (30 y 765 7457 ENGINEERING DIVISION

6. On-site flows - quantification, discharge locations and/or treatment.
7. On-site Drainage Basic delineation.
8. Existing R/W or easements.
Carley and the manifest of the second of the
9. Proposed R/W, easements (and if necessary) current plat-for
Analysis of down stream Capacity. + is issued
Analysis of drun stream Capacity.  The Analysis of drun stream Drawing before building permit is issued.
1. North Arrow - Scale.
2. Minimum 24" x 36" plan size.
3. Vicinity Map.
4. Legal Description.
5. Bench Mark description/location. and elevation
6. TBM location to full mean level designation
7. Contours, spots, structures within 25' (outside) of property line.
<ol> <li>Existing City top of curb and flow line elevations on or adjacent to site.</li> </ol>
9. Delineation of retaining and garden walls. Both existing or proposed.
10. City project number for adjacent streets or alleys being designed per requirement.
11. Finished floor elevation with complete MSL designation.
12. Location and/or direction of flow for roof-drains.
13. Delineation of phased construction.
14. Erosion Control Plan.
Please provide this information so that we may process your request as expediently as possible.  The second constitution of the second control of the seco
/ Variated as a private access, &
Lis. approved ciril Corson Rd is Lenguated as a private access, y not, approved street grades will be required.  City Design/Hydrology Section
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City Design/nyarorogy Section

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

# PRE-DESIGN CONFERENCE RECAP

	T12-10	DOTE:	7/16/85
HYDROLOGY SECTION PRO			1/19/
PLANNING DIVISION NOS		DRB:	
BUSJECT: Grading &	Drainage Plan fo	Restaurant	Facilities
LEGAL DESCRIP.:			
	APPROVAL RI	OUESTED	
	APPROVAL KI	-GOESTED	
PRELIMINARY F	PLAT	_/_	FINAL PLAT
SITE DEVELOP			BUILDING PERMIT
	ROUG	H GRADING	
	WHO:	R	EPRESENTING:
ATTENDANCE: Bern	e J. Montoya		Hydrdogy
	Rodriguez	Rodrigues	1 Associates
/ Site Developme	nt Plan sign-off.		reliminary Plat and/or
ing Permit Sig	n-oll	nt or Financia	1 Security required.
		orr	HADIO ISONITO CT. NY
FINDINGS: FREE C	lischarge to Rio	France / Drai	Mase Report per DPM
lot I'm removal, by	replating or drain	age easement,	I downstream capacity
analysis for free	discharge.		
	that the abo	ve findings ar	e summarized accurately
and are only subject are not reasonable	A MAT.	()	117.
SIGNED: Delle	111111111111111111111111111111111111111	NED:	wide a - 1 James
TITLE: Fogiann	HSSK JOHN TIT	LE:	
DATE:	DA1		

\*\*NOTE\*\* PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL

### DRAINAGE CALCULATIONS

#### I. REFERENCES:

- A. City of albuquerque Development Process Manual (DPM) Volume 2, Design Criteria, Chapter 22: Drainage, Flood Control, and Erosion Control.
- B. Soil Survey of Bernalillo County and Parts of Sandoval and Valencia Counties, New Mexico, United States Department of Agriculture, Soil Conservation Service.
- C. Floodway Flood Boundary and Floodway Map, City of Albuquerque, New Mexico, Panel 28 of 50.

### II. GENERAL INFURMATION:

A. Soil Type (Ref. B, Page 30): Soil type is 'Af' (Aqua Loam), Hydrologic soil group 'B'.

B. Imperviousness:

Type of Surface	Existing Sq. Ft.	Area / Acres	Propose Sq. Ft.	
Building roof Concrete Surfaces Asphalt Surfaces Landscaping Undeveloped Surface	N/A N/A N/A 31637		2250 535 19940 N/ 8912	0.052 0.012 0.457 A 0.205
Site Total	31637	0.726	31637 71	0.726

- C. "C" Factor (See Ref. A, Plate 22.2 C-1):
  - Undeveloped "C" Factor = 0.34
     Developed "C" Factor = 0.70
- D. Rainfall, 100-year, 6-hour, R(6), (Ref. A, Plate 22.2 D-1):

R(6) = 2.20 inches

E. Time of Concentration, Tc:

Use a minimum value of 10 minutes for calculations.

F. Rainfall Intensity, I (See Ref. A, Plate 22.2 D-2):

I = R(6) x 6.84 x Tc(-0.51) = 2.20 x 6.84 x 10(-0.51) = 4.65 in/hr

### III. PEAK DISCHARGE:

A. Existing Conditions (Use Rational Method):

Q(100) = 0.34 x 4.65 x 0.726 = 1.15 cfs

 $Q(10) = 0.657 \times 1.15$ = 0.75 (Ref. A, Plate 22.2 D-1)

B. Developed Conditions:

Q(100) = 0.70 x 4.65 x 0.726 = 2.36 cfs

 $Q(10) = 0.657 \times 2.36$ = 1.55 cfs

### IV. SIDEWALK DRAINAGE CHANNEL CAPACITY:

A = 1.56 sq.ft.

P = 2.17 ft.

R = A/P = 0.72 ft.

S = 0.02 ft/ft

n = 0.013

By Manning's Equation:

 $Q = 1.486 \times A \times R(exp. 2/3) \times S(exp. 1/2)$ 

= 20.26 cfs

Drainage area to discharge through channel:

A = 0.341 acres

Also: C = 0.90; and I = 4.65

Therefore, the peak discharge through channel (using the Rational Method) shall be:

 $Q(100) = 0.90 \times 4.65 \times 0.341$ = 1.4 cfs

Therefore, the drainage channel has adequate capacity to carry the maximum volume required.

## V. CONSTRUCTION NOTES:

- 1. Two (2) working days prior to any excavation, contractor must contact line locating service at 765-1234 for location of existing utilities.
- 2. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all potential obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- 3. All work on this project shall be performed in accordance with applicable Federal, State and Local laws, rules, and regulations concerning construction safety and  $\Re e^{-1}$  th.
- 4. All construction within City Right-of-Way shall be performed in accordance with applicable City of Albuquerque standards and proceedures.

# VI. GENERAL NOTES:

City Zone Atlas Map City Bench Mark

J-13 STA 7-J13A

## VII. FLOOD INFORMATION:

Subject property is not situated within a designated 100 year flooding zone, however the entire site is located within the 500 year flood zone (as per Reference 1C).

# VIII. EROSION CONTROL:

During construction phase, two (2) new drive pads shall be constructed within the City Right-of Way. The contractor shall promptly clean up any material excavated within the public Right-of Way, such that the excavated material is not susceptible to being washed down the streets.

The proposed curb within the property shall be constructed such that it prohibits any flow over the public sidewalks

# IX. OFF-SITE FLOW:

There is no flow onto this site from off-site sources. Sl-pes west of the western property line fall away from the subject property precluding any off-site flow from this direction. An existing bar dirch along the northern property line, and existing curbs beyond the eastern and southern property lines prohibit any off-site flow from these directions. directions.



# Colly of Albuque on que P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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September 26, 1985

Frank Lovelady Lovelady & Assoc. 7408 Morrow Rd. NE Albuquerque, NM 87110

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Barrie J. Mostages City/Design/Hydrology Section

BJM/cl

MUNICIPAL DEVELOPMENT DEPARTMENT

C. Dweyna Shappard, P.E., City Engineer

ENGINEERING DIVISION

Telephone (505) 765-7467

- AN EQUAL OPPORTUNITY EMPLOYER

## DRAIMAGE INFORMATION SHEET

CITY ADDRESS: 777 P.10 G-RAID	EBLUD NW
	CONTACT: FRANK LOVELADY
ADDRESS:	PHONE: 883-7973
DHNER: BLAKE'S LOTABURGER	CONTACT:
ADDRESS:	PHONE:
ARCHITECT: KEN HOUEN DESCH GROL	P CONTACT: KEN HOUEY
ADDRESS: 335 SEFFERSON SUITE	8 PHONE: 255-9400
GURVEYOR:	CONTACT:
ADDRESS:	PHONE:
CONTRACTOR:	CONTACT:
PRE-DESIGN MEETING:  YES  ND  COPY OF CONFERENCE RECAP SHEET PROVIDED	PHONE:  DRB NO35 508 7/30/35  DN EPC NO PROJ. NO
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:  SKETCH PLAT APPROVAL  PRELIMINARY PLAT APPROVAL  SITE DEVELOPMENT PLAN APPROVAL  FINAL PLAT APPROVAL  BUILDING PERMIT APPROVAL  FOUNDATION PERMIT APPROVAL  CERTIFICATE OF OCCUPANCY APPROVAL  ROUGH GRADING PERMIT APPROVAL  GRADING/PAVING PERMIT APPROVAL  OTHER (SPECIFY)

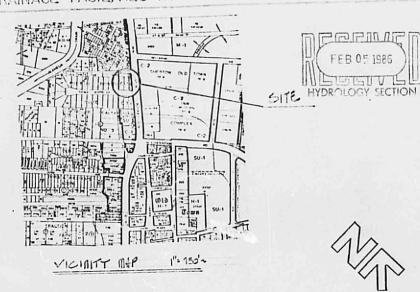
# CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

# PRE-DESIGN CONFERENCE RECAP

ANNING DIVISION	N PROJECT NO.: JIE	DRB:	
		1011	Ear Him.
BJECT: Gradi	ng & Diginage Plot	for Krighton	Facilities
BAL DESCRIP.:			
	-	or occurren	
	APPRLIV	AL REQUESTED	
PRELIMIN	IARY PLAT		FINAL FLAT
	ELOPMENT PLAN		BUILDING PERMIT
Yire.		ROUGH GRADING	
	WHO:		REPRESENTING:
TTENDANCE:	Bernie J. Mortoya		Hydracay
•	reary Redriquez	<u>Rodrigues</u>	( Historialis
- 14-1			
Conceptua	1 Drainage Plan/Rep	ort required for P	reliminary Plat and/or
Site Deve	Drainage Plan/Repor	t required for Fire	al Plat and/or Build- al Security required.
Site Deve	Drainage Plan/Report sign of the sign of t	t required for Fire	al Security required.
Approved ing Permi Subdivisi	Drainage Plan/Report sign of Improvements Agr	t required for Firesement or Financia	Public Benito Ct. NW   INGS. Report: Per DP
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Approved ing Permi Subdivisi  FINDINGS:    of	Drainage Plan/Report sign of the discharge to a by reputing of the discharge to a by reputing of the discharge to a by reputing of the discharge to agrees that the	t required for Fire eemert or Financia or Parage / Dra dialogge /	al Plat and/or Build- al Security required. Public Bondo Ct. NW  MGS. Report Per DP  J downstean capacity.
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# CITY OF ALBUQUERQUE

# DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY



LEUTE DESCRIPTION LOT A

PULSO BODITO SUBDIVISION BEFORELICO COUNTY FILED AUG. 1,1985

PEFEFERE CITY DETUM:

BRESS TERLET STAMPED "1.0134"
SET FLUST WITH CUPS, LOCATED

AT IMPRESENTIAL OF PIO CHAPPE BLUD ALM,
MOUNTAIN PD. ALM (36.0' RAST OF & OF PIO CHAPPE

26.0' DEFN OF & OF MOUNTAIN PD.)

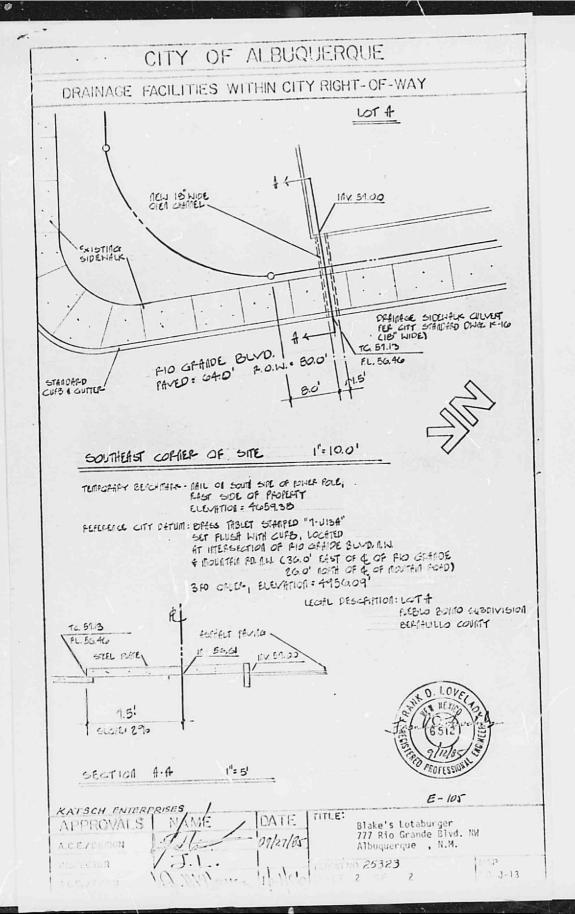
3PD OPPER, ELECATION : 4950.09"



### NOTICE TO CONTRACTOR

- An excavation/construction permit will be required before beginning any work within City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.
- All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with Interim Standard Specifications for Public Works Construction 1985.
- Two working days prior to any excavation, contractor must contact line Locating Service, 765-1234, for location of existing utilities.
- 4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.

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APPLOVALS	N/MF	DATE	TITLE: B	lake's Lot	taburger ande 31vd. N	W
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pier Carra	1:1. E.		V DESIGNATION	25323		MAP J-13
7. 7. 7. 70	17 MeDia	Alphafel	50 mm	1 1/2	2	140.



# OF ALBUQUERQUE CITY DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY LOT A TEN 18 WIDE IAV. 51.00 EXISTIACE SIDENALK DRAINEGE SIDELARY CHUVER FIG. (18" MIDE) TC. 51.13 PIO GRANDE BLYD. 2.0.W. 80.0 F.L. 56.46 PAVED: 64.0' STANDARD CUFS & GUTTER 1'= 10.0' SOUTHERST COPPLET OF SITE TEMPORARY BENCHMARK - MAIL OF SOUTH SIDE OF POWER POLE; . EAST SIDE OF PROPERTY ELEVATION = 4659.38 PEFEFER CE CITY DETUM: OFFES TABLET STAMPED "1-1134" SET FLUSH WITH CUPB, LOCATED AT IMERSECTION OF PIO GRAIDE BUYD, I.W. \$ MOUNTAIN PR. M.H. (30.0' EAST OF & OF PIO GRANDE 20.0' NOWTH OF & OF MOUNTAIN POAD) LEGAL DESCRIPTION: LOTA POISTA SOLITO EMBOLVIPION Ŕ BERITUILLO COVITT Tc. 51.13 terffit favila. FL. 56.46 11 51.00 STEL PLATE 1.5 SLOTE 2% 1.4 1"= 5" SECTION E-105 KATSCH ENTERPRISES TITLE: DATE APPROVALS Blake's Lotaburger 777 Rio Grande Blvd. NW 09/27/85 Albuquerque , N.M. A.C.E./ DESIGN 1 25323 MISTOR TOR 0.3-13

### DRAINAGE INFORMATION SHEET

GAL DESCRIPTION: Lot 'A' of Plat 'A', Pue	
NGINEERING FIRM: Frank Lovelady	CONTACT: <u>same</u>
ADDRESS:	
	CONTACT: Elwin Johnson
ADDRESS: 3205 Richmond Drive NE	PHONE: 884-2160
RCHITECT: The Ken Hovey Design Group	CONTACT: Kelly Moe
ADDRESS: 335 Jefferson St. SE, Suite	'B' PHONE: 255-9400 or 255-4756
URVEYOR: Charles T. Scannell	CONTACT: Same
0100 Dedenite Dd CM	PHONE: 877-3558
	CONTACT: Elwin Johnson
ADDRESS: 3205 Richmond Dr. NE PRE-DESIGN MEET/NG: YES NO	DRB NO
PRE-DESIGN MEET/NG:	DRB NO.
PRE-DESIGN MEET/NG:YESNOX_COPY OF CONFERENCE RECAP	DRB NO
RE-DESIGN MEET/NG: YES NO	DRB NO
RE-DESIGN MEET/NG:  YES  NO  COPY OF CONFERENCE RECAP SHEET PROVIDED	DRB NO  EPC NO  PROJ. NO  DRB NO  CHECK TYPE OF APPROVAL SOUGHT:
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# CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

# PRE-DESIGN CONFERENCE RECAP

	PRE-DESIGN CON CITETION
	SECTION PROJECT NO.: J13-D DATE: 3/16/85
	DDD.
PLANNING I	DIVISION NOS. EPC: DRB:
SUBJECT:	Grading & Drainage Plan for Restaurant Facilities
LEGAL DES	CRIP.:
	APPROVAL REQUESTED
	FINAL PLAT
	PRELIMINARY PLAT
	SITE DEVELOPMENT PLAN
	ROUGH GRADING
	WHO: REPRESENTING:
	Ct. Hydrdogy
ATTENDAN	ICE: Berne J. Hangya
	Greage Radrigues Rodrigues
0	
Co	onceptual Drainage Plan/Report required for Preliminary Plat and/or
Si	ite Development Plan sign-off.
/ Gr	pproved Drainage Plan Report required for Final Plat and/or Build-
iv	ng Permit Sign-off
8	or Public Bonito ct. NW
	1: 1 Dr. Gorado / Dougge Report per DPM
FINDING	me removal by replatting or drainage easement / downstream rapartly
lot l'y	My removal by replatting or available excession,
analy	
Title	and summarized accurately
The ur	ndersigned agrees that the above findings are summarized accurately e only subject to change if further investigation reveals that they e only subject to change if further investigation reveals that they are based on inaccurate information.
and are	e only subject to change if further investigation revealing e only subject to change if further investigation reveal to reasonable or that they are based on inaccurate information.
are not	The state of the s
SIGNED	11 Color Hotel
TITLE:	franken // HISS CON
ATE	7/15/8/5 DATE:

\*\*NOTE\*\* PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL

#### DRAINAGE CALCULATIONS

### I. REFERENCES:

A. City of albuquerque Development Process Manual (DPM) Volume 2, Design Criteria, Chapter 22: Drainage, Flood Control, and Erosion Control.

B. Soil Survey of Bernalillo County and Parts of Sandoval and Valencia Counties, New Mexico, United States Department of Agriculture, Soil Conservation Service.

C. Floodway Flood Boundary and Floodway Map, City of Albuquerque, New Mexico, Panel 28 of 50.

## II. GENERAL INFORMATION:

A. Soil Type (Ref. B, Page 30): Soil type is 'Af' (Aqua Loam), Hydrologic soil group 'B'.

B. Imperviousness:

Type of Surface	Existing Sq. Ft. / A	Area	Propose Sq. Ft.	d Area / Acres
Building roof Concrete Surfaces Asphalt Surfaces Landscaping	N/A N/A N/A N/A		2250 535 19940 N/	0.052 0.012 0.457 A
Undeveloped Surface	31637	726	8912	0.205
Site Total Percent Impervious	31637	0.726	31637 71	0.726 .8%

- C. "C" Factor (See Ref. A, Plate 22.2 (-1):
  - Undeveloped "C" Factor = 0.34
     Developed "C" Factor = 0.70
- D. Rainfall, 100-year, 6-hour, R(6), (Ref. A, Plate 22.2 D-1):

R(6) = 2.20 inches

E. Time of Concentration, Tc:

Use a minimum value of 10 minutes for calculations.

F. Rainfall Intensity, I (See Ref. A, Plate 22.2 D-2):

I = R(6) x 6.84 x Tc(-0.51) = 2.20 x 6.84 x 10(-0.51) = 4.65 in/hr

# III. PEAK DISCHARGE:

A. Existing Conditions (Use Rational Method):

Q(100) = 0.34 x 4.65 x 0.726 = 1.15 cfs  $Q(10) = 0.657 \times 1.15$ = 0.75 (Ref. A, Plate 22.2 D-1)

B. Developed Conditions:

 $Q(100) = 0.70 \times 4.65 \times 0.726$ =(2.36 cfs  $Q(10) = 0.657 \times 2.36$ = 1.55 cfs

# IV. SIDEWALK DRAINAGE CHANNEL CAPACITY:

A = 1.56 sq.ft.P = 2.17 ft.R = A/P = 0.72 ft.S = 0.02 ft/ftn = 0.013

By Manning's Equation:  $Q = 1.486 \times A \times R(exp. 2/3) \times S(exp. 1/2)$ n = 20.26 cfs

Drainage area to discharge through channel: A = 0.341 acres Also: C = 0.90; and I = 4.65

Therefore, the peak discharge through channel (using the Rational Method) shall be:

 $Q(100) = 0.90 \times 4.65 \times 0.341$ = 1.4 cfs

Therefore, the drainage channel has adequa. capacity to MY O LOVE carry the maximum volume required.

### V. CONSTRUCTION NOTES:

- 1. Two (2) working days prior to any excavation, contractor must contact line locating service at 765-1234 for location of existing utilities.
- Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all potential obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- 3. All work on this project shall be performed in accordance with applicable Federal, State and Local laws, rules, and regulations concerning construction safety and health.
- 4. All construction within City Right-of-Way shall be performed in accordance with applicable City of Albuquerque standards and proceedures.

#### VI. GENERAL NOTES:

City Zone Atlas Map City Bench Mark J-13 STA 7 J13A

### VII. FLOOD INFORMATION:

Subject property is not situated within a designated 100 year flooding zone, however the entire site is located within the 500 year flood zone (as per Reference 1C).

### VIII. EROSION CONTROL:

During construction phase, two (2) new drive pads shall be constructed within the City Right-of Way. The contractor shall promptly clean up any material excavated within the public Right-of Way, such that the excavated material is not susceptible to being washed down the streets.

The proposed curb within the property shall be constructed such that it prohibits any flow over the public sidewalks

### IX. OFF-SITE FLOW:

There is no flow onto this site from off-site sources. Slopes west of the western property line fall away from the subject property precluding any off-site flow from this direction. An existing bar ditch along the northern property line, and existing curbs beyond the eastern and southern property lines prohibit any off-site flow from these directions.