PUBLIC WORKS/HYDROLOGY
L11/D12

0000 0000 1078

LII/D12

25×10 32×10

0000 0000 1079

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

MAYOR
KEN SCHULTZ

CHIEF ADMINISTRATIVE OFFICER
GENE ROMO

DEPUTY CAO PUBLIC SERVICES
FRANK MARTINEZ

DEPUTY CAO PLANNING/DEVELOPMENT
BILL MUELLER

March 24, 1988

Celia S. Tomlinson
Rhombus, P.A.
10325 Karen, Ne
Albuquerque, New Mexico 87111

RE: REVISED DRAINAGE PLAN FOR FAST SERVICE LUBE
(L-11/D12) REVISION DATE MARCH 5, 1988

Dear Ms. Tomlinson:

Based on the information provided on your resubmittal of March 7, 1988, the above referenced plan is approved for Building Permit.

Engineer's Certification will be required after completion of the project. Also, the building permit will not be issued until Mr. Tucker Green of the Bernalillo County Road Department has given his final approval.

If I can be of further assistance, please feel free to call me at 768-2650.

Cordially,

Carlos A Montoya
for Bernie J. Montoya, C.E.
Engineering Assistant

BJM/bsj

25×10 32×10

0000 0000 1080

DRAINAGE INFORMATION SHEET

PROJECT TITLE: FAST SERVICE LUBE ZONE ATLAS/DRNG. FILE #: L11/D12

LEGAL DESCRIPTION: RESIDUAL OF TRACT B OF THE LANDS OF CHAVEZ

CITY ADDRESS: BRIDGE EAST OF COORS

ENGINEERING FIRM: RHOMBUS, P.A. CONTACT: CELIA TOMLINSON

ADDRESS: 10325 KAREN NE PHONE: 293-4583

OWNER: ELOY PADILLA CONTACT: _____

ADDRESS: _____ PHONE: _____

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

RECEIVED
MAR 07 1988
HYDROLOGY SECTION

PRE-DESIGN MEETING:

___ YES

___ NO

✓ COPY OF ~~CONFERENCE RECAP~~ COMMENTS SHEET PROVIDED

DRB NO. _____

EPC NO. _____

PROJ. NO. _____

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

✓ DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

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)

DATE SUBMITTED: 3/7/88

BY: Celia S Tomlinson

25×10 32×10

0000 0000 1081

RHOMBUS, P.A.

Civil Engineers & Construction Consultants

N.M. Professional Engineer #4845 N.M. Licensed Contractor #10131

PHONE 298-4583

RECEIVED
MAR 07 1988
HYDROLOGY SECTION

March 5, 1988

Mr. Carlos A. Montoya, P.E.
City/County Floodplain Administrator
COUNTY OF BERNALILLO
One Civic Plaza NW
Albuquerque, NM 87102

SUBJECT: FAST SERVICE LUBE DRAINAGE PLAN

Dear Mr. Montoya:

Thank you for your letter of February 25, 1988 and your review comments concerning the ponds for the subject project. In response, we eliminated the ponds and allowed the runoff to flow onto Bridge Boulevard. Our answers to your specific comments as follows (the numbers correspond to your comment numbers):

1. This is now clarified on Paragraph IIB and IVB of the Drainage Plan text.
2. Yes, indeed! This is now reflected on Paragraph IIC of the Drainage Plan text.
3. The downstream capacity is addressed on Paragraph IIC and Paragraph IIIB of the Drainage Plan text.
4. This comment no longer applies.
5. The canal south of the property is now referred to as generic "CANAL."
6. We were told to furnish the County Public Works Department a copy of the final submittal.
7. The full mean sea level designation is now shown for the finished floor elevation.
8. This comment no longer applies.
9. This comment no longer applies.

Your assistance has been very valuable.

Sincerely yours,

Celia S. Tomlinson

CELIA S. TOMLINSON, P.E.

10325 Karen NE / Albuquerque, New Mexico 87111 / (505) 8[illegible]-5[illegible]5

0000 0000 1082

RECEIVED
MAR 07 1988
HYDROLOGY SECTION

BOARD OF COUNTY COMMISSIONERS
LENTON MALRY, CHAIRMAN DISTRICT 3
ORLANDO VIGIL, VICE CHAIRMAN DISTRICT 2
HENRY GABALDON, MEMBER DISTRICT 1
PATRICIA H. CASSIDY, MEMBER DISTRICT 4
JACQUELYN SCHAEFER, MEMBER DISTRICT 5
RON OLGUIN, COUNTY MANAGER

County of Bernalillo

State of New Mexico

ONE CIVIC PLAZA, N.W.
ALBUQUERQUE, NEW MEXICO 87102

LARRY SANCHEZ, SHERIFF
ROBBIN BISHOP, TREASURER
GLADYS M. DAVIS, COUNTY CLERK
JOSEPH F. THOMSON, ASSESSOR
ROBERT H. SCOTT, PROBATE JUDGE

February 25, 1988

Celia S. Tomlinson
Rhombus, P.A.
10325 Karen, NE
Albuquerque, New Mexico 87111

RE: DRAINAGE PLAN FOR FAST SERVICE LUBE
(L-11/D12) RECEIVED JANUARY 21, 1988

Dear Ms. Tomlinson:

I have reviewed the referenced plan and forward the following comments:

1. Please quantify the off-site flows and the location where they enter the site. Not needed - clarify

2. The 1983 flood plain map show that the site is encroached by the 100 year flood plain.

3. Please address downstream capacity. A control release from the ponds may be an appropriate drainage solution. Do this

4. The retaining walls will have a saturated soil if the ponds are untreated. Has the retaining wall analysis addressed saturated soils? Allow to drain or pipe thru sidewalk

5. The vicinity map shows the Arenal Canal east of your property. The drawing shows the canal south of your property. just call canal

6. Please contact Tucker Green at Bernalillo County Public Works Department for the County requirements.

843-6120

25×10 32×10

0000 0000 1083

7. Please [illegible] mean sea level designations for the finish flo[illegible] — will do

8. Please indicate the ponds 100 year water surface and their inverts. } no need if piped.

9. Ponds cannot be within 15 feet of the property line minus existing setbacks. } "

Should you have any questions, please call me at 768-2650.

Cordially,

Carlos A. Montoya

Carlos A. Montoya, P.E.
City/County Floodplain Administrator

CAM/bsj

25×10 32×10

0000 0000 1084

DRAINAGE INFORMATION SHEET

PROJECT TITLE: FAST SERVICE LUBE ZONE ATLAS/DRNG. FILE #: L-11/D12

LEGAL DESCRIPTION: TRACT D (PORTION) OF M. A. CHAVEZ

CITY ADDRESS: BRIDGE ST. E OF COORS SW

ENGINEERING FIRM: RHOMBUS, P.A. CONTACT: CELIA S. TOMLINSON

ADDRESS: 10335 KAREN NE 87111 PHONE: 293-4583

OWNER: ELOY PADILLA CONTACT:

ADDRESS: 1900 4th NW 87102 PHONE:

ARCHITECT: ROBERT PONTO CONTACT: ROBERT PONTO

ADDRESS: PHONE:

SURVEYOR: JAMES STARCHER CONTACT: JAMES STARCHER

ADDRESS: PHONE:

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

RECEIVED JAN 21 1988 HYDROLOGY SECTION

PRE-DESIGN MEETING:

___ YES

X NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRC NO. ___

EPC NO. ___

PROJ. NO. ___

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

X DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

X BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER ___ (SPECIFY)

DATE SUBMITTED: ___

BY: 1/21

25×10 32×10

0000 0000 1085

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

CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NO.: L-11 DATE: 12/9/87

PLANNING DIVISION NOS: EPC: _____ DRB: _____

SUBJECT: East Service Lube

STREET ADDRESS (IF KNOWN): Bridge Blvd

SUBDIVISION NAME: _____

APPROVAL REQUESTED:

____ PRELIMINARY PLAT	____ FINAL PLAT
____ SITE DEVELOPMENT PLAN	✓ BUILDING PERMIT
____ OTHER	____ ROUGH GRADING

ATTENDANCE:	WHO	REPRESENTING
	Bernie J. Montoya	City
	George Rodriguez	

FINDINGS:

1. Site encroached by a floodzone AO-1'
2. Detention of developed flows may be required
3. Bridge expansion plan may identify acceptable release rate
4. Drainage plan per DPM guidelines prior to Building Permit release
5. Stamped and signed by a New Mexico Registered Engineer
6.

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: Bernie J. Montoya	SIGNED:
TITLE: Engineering Assistant	TITLE:
DATE: 12/9/87	DATE: 12/9/87

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

25× 32×

0000 0000 1086

built along this property line to contain the soil. The runoff on the valley gutter will drain through a sidewalk culvert, onto Bridge Boulevard, and eventually into an existing catch basin approximately 500 feet to the East. The catch basin has capacity for 13 cfs (Plate 22.3D-5).

C. TREATMENT. Except for the landscape areas, the lot will be paved with two-inch asphaltic concrete.

IV. Calculations:

A. The calculations analyze the identified basin for both the existing and developed conditions for the 100-year, 6-hour rainfall event. The SCS Method was used for this analysis in accordance with the City of Albuquerque Development Process Manual, Volume II.

B. OFF-SITE RUNOFF. Because of the small size of the areas that contribute off-site runoff, they were simply made part of the basin identified for analysis.

C. Rainfall used for the six-hour event is 2.2 inches (DPM Plate 22.2D-1)

D. Formulae used: Peak Discharge, Qpeak = R(qp) in cubic feet per second

Where R = Direct Runoff in inches
qp= 45.4(A)/Tp
A = Area in acres
Tp= Tc = 10 minutes
Volume = R(A)(43560)/12 in cubic feet

Q = AV Where Q = Peak Flow in cubic feet per second
V = Velocity in feet per second
A = Cross-section area in square feet

$V = \frac{1.486}{n} R \quad S$ Where n = coefficient of roughness, .013
R = wetted perimeter = A/P
P = cross-section perimeter in feet

HYDROLOGIC CALCULATIONS

	BASIN	
	UNDEVEL	DEVEL
AREA, Acres	.36	.36
% Impervious	0	64
Perv Cover CN (22.2C-2)	82	92.20
Comp CN (22.2C-3)	82	96
Direct Runoff (22.2C-4)	.60	1.80
Tc, Minutes	10	10
Qpeak, Cubic ft/second	.98	2.94
Volume, Cubic feet	784	2352

HYDRAULICS CALCULATIONS

Area of proposed gutter section = .50 SF
Needed area of gutter section = .36 SF

Celia A. Tinlinson P.E.

25×10 32×10

RHOMBUS, P.A.
ENGINEERS, CONSTRUCTION CONSULTANTS
AND LAND SURVEYORS
10325 Karen Avenue NE
Albuquerque, NM 87111
Phone 293-4583

RECEIVED
MAR 07 1988
HYDROLOGY SECTION

DRAINAGE PLAN
FOR
FAST SERVICE LUBE

The following items concerning FAST SERVICE LUBE are contained herein or in the accompanying drainage plan:

1. Vicinity Map
2. Grading Plan
3. Calculation Results
4. Details

I. Location:

The property is legally described as the Residual of Tract B of the Lands of M. A. Chavez. It is located approximately 700 feet East of South Coors, on the South side of Bridge Blvd. S.W. and contains approximately .2708 acres.

II. Existing Conditions:

A. ON-SITE RUNOFF. The property is South of, and abuts fully-developed Bridge Boulevard. To the West is an access dirt road (Foothill Road) that leads to a fully developed canal. To the South is the fully developed fenced canal. To the East is a dirt berm prevents surface water from running down the abutting lot with a house. The property presently contains the runoff that falls directly on it.

B. OFF-SITE RUNOFF. Just West of Foothill Road is a riprapped berm, along with a wall, that prevents surface water from draining onto the property. The lot receives only a very small offsite runoff from the foot of the riprapped berms on the West side of Foothill Road on the West and from a narrow strip of land from the foot of riprapped berm on the South (Canal).

C. FLOOD ZONE. Research has revealed that the site is located in ZONE AO area of shallow flooding of one (1) foot depth. However no flood factors are determined as the same is shown on Flood Insurance Rate Map Panel 33 dated October 14, 1983. The lot is an in-fill area and its development will not adversely impact the surrounding properties. Soil classification is Type B.

III. Proposed Development:

A. USE. The property is proposed as the site of an automotive lubrication shop. A structure with a roof area of approximately 1,554 square feet will be built.

B. GRADING. The land will be graded to drain the computed peak flow of 2.94 CFS towards a concrete valley gutter along the East property line. Since the property is considerably higher than the adjoining lot to the East, a retaining wall will be

0000 0000 1088

PLANS/PLATS ON FILE

FILE DESC: L11/D12

PLANS/PLATS 1

25×10 32×10

0000 0000 1089