



CITY OF ALBUQUERQUE  
MUNICIPAL DEVELOPMENT DEPARTMENT  
ENGINEERING DIVISION



HYDROLOGY SECTION PROJ. NO. #22 DATE: 4/23/84

PLANNING DIVISION NO. \_\_\_\_\_

CONFERENCE RECA.

SUBJECT: Texaco @ SF for Juan Tabo - Candelaria NE  
(2932 Juan Tabo NE)

WHO

REPRESENTING

ATTENDANCE: John Armstrong  
Jake Burdman

City  
Dm Jim

FINDINGS: (1) Drainage Plan per DPM required

(2) Eflow discharge directly to existing  
catch basins ok.

(3) Summary Plot required

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]

SIGNED: [Signature]

TITLE: CE / Hydrology

TITLE: DMM

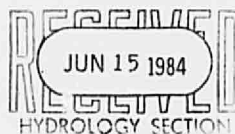
DATE: 4/23/84

DATE: 4/23/84

H-22-D-41.

# INFORMATION SHEET

PROJECT TITLE GAS BAR & FOOD MART FOR TEXACO, INC. TYPE OF SUBMITTAL GRADING & DRAINAGE  
 ZONE ATLAS PAGE NO. H-22-2 D41 CITY ADDRESS 2932 JUAN TABO BLVD.  
 LEGAL DESCRIPTION LOTS 1P & 6P & NORTH 9.66' of 7P & 7C, BLOCK 101, BRIGHTWOOD HILLS SUBDIVISION  
 ENGINEERING FIRM ADAM, HAMILYN, ANDERSON CONTACT JACK BORDEAUX  
 ADDRESS 4055-A MONTGOMERY BLVD. PHONE 881-1808  
 OWNER TEXACO, INC. CONTACT —  
 ADDRESS — PHONE —  
 ARCHITECT KEN HOVEY DESIGN GROUP CONTACT KEN HOVEY  
 ADDRESS 3700 SIMMS SE PHONE 255-9400  
 SURVEYOR — CONTACT —  
 ADDRESS — PHONE —  
 CONTRACTOR A & P CONSTRUCTION, INC. CONTACT NORM McFALL  
 ADDRESS 705 RANKIN ROAD NE PHONE 344-3556  
 DATE SUBMITTED JUNE 14, 1984  
 BY Regi P. Lister





## City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

July 13, 1984

Mr. Jake Bordenave  
DMJM/AHA  
4055 A Montgomery Blvd. NE  
Albuquerque, New Mexico 87109

RE: GRADING & DRAINAGE PLAN FOR TEXACO INC. (H-22 D-41) RECEIVED  
JUNE 15, 1984

Dear Jake,

The above referenced submittal is incomplete. The drainage associated with this site has not been addressed.

The plan is missing the finished floor elevation with the complete MSL designation.

If the site is to be completely regraded, as shown by the plan, an erosion control plan for the period of construction will be required.

What kind of walls are proposed around the property? If retaining walls, please identify.

What are the capacities and hydraulic characteristics associated with the proposed private stormsewer system. The grading shown is such that the inlets will not work. The driveway elevation is less than 0.1 foot higher.

Should you have any questions or comments, please contact me at 766-7644.

Yours truly,

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

BJG/cl

cc: Ken Hovey

MUNICIPAL DEVELOPMENT DEPARTMENT

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

ENGINEERING DIVISION

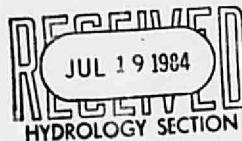
Telephone (505) 766-7467

AN EQUAL OPPORTUNITY EMPLOYER

INFORMATION SHEET

GAS BAR

PROJECT TITLE FOOD MART FOR TEXACO, INC. TYPE OF SUBMITTAL 2ND. SUBMITTAL  
ZONE ATLAS PAGE NO. H-22-Z CITY ADDRESS 2932 JUAN TABO BLVD.  
LEGAL DESCRIPTION LOT A-A, BLOCK 101, BRENTWOOD HILLS SUBDIVISION  
ENGINEERING FIRM DMM / ADAM / HAMMILL CONTACT JAKE BORDENAVE  
ANDERSON  
ADDRESS 4055-A MONTGOMERY BLVD. PHONE 881-1808  
OWNER TEXACO, INC. CONTACT ---  
ADDRESS --- PHONE ---  
ARCHITECT KEN HOVEY DESIGN GROUP CONTACT KEN HOVEY  
ADDRESS 3700 SIMMS SE PHONE 255-9400  
SURVEYOR --- CONTACT ---  
ADDRESS --- PHONE ---  
CONTRACTOR P & P CONSTRUCTION CONTACT ---  
ADDRESS --- PHONE ---  
DATE SUBMITTED 7/19/84  
BY REGI RUTAR



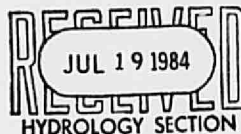
**DMJM**/Adam, Hamlyn, Anderson

July 18, 1984  
MDD/ENG  
City of Albuquerque  
PO Box 1293  
Albuquerque, NM 87103

Attn: Mr. Billy Goolsby

Re: H-22 D-41

Dear Sir:



The following (together with the attached revised Drainage Plan) is in response to your written comments dated July 13, 1984. The response numbers correspond to the paragraph numbers of your letter, a copy of which is attached.

1. See attached sheets of computations for on site drainage and SCS soils map. Offsite drainage from the east has been intercepted by the construction of a detention pond immediately east of the site and diverted to Candelaria Rd. Approximately 25 feet of undeveloped property drains from the south to the site. This area, due to it's size, and probable development in the near future with resultant regarding was ignored. The north and west are bounded by Candelaria and Juan Tabo respectively and no offsite flows.
2. The Finished Floor elevation has been added to the plan.
3. A note with respect to Contractor Responsibility has been added to the plan.
4. Existing and proposed walls have been identified on the plan.
5. See attached computations and the grate elevations have been revised.

Thank you for your review and processing of this supplement to the grading plan.

Sincerely,

A handwritten signature in cursive script, appearing to read "Jean J. Bordenave".

Jean J. Bordenave, P.E.  
Enclosure

JJB/cc1



## City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

July 20, 1984

Mr. Jake Bordenave  
DMJM/Adam, Hamlyn, Anderson  
4055 A Montgomery Boulevard NE  
Albuquerque, NM 87109

REF: REVISED GRADING AND DRAINAGE PLAN FOR TEXACO INC. (H22-D41) RECEIVED  
JULY 19, 1984 (2932 JUAN TABO BOULEVARD NE)

Dear Jake:

The above referenced plan, dated July 18, 1984, is approved.

Please attach a copy of the approved plan along with the appropriately approved "Drainage Facilities Within City Right-of-Way" document to the construction set prior to release of the building permit.

If I can be of further assistance, please contact me at 766-7644.

Yours truly,

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

BJG:mrk

cc: Greg Olson

MUNICIPAL DEVELOPMENT DEPARTMENT

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

ENGINEERING DIVISION

Telephone (505) 766-7467

AN EQUAL OPPORTUNITY EMPLOYER

DMJM/AHA ALBUQUERQUE	PROJECT	TEXACO	PROJECT NO	4631-03-01	PAGE	1/2
	SUBJECT	JUAN TABO @ CANDELARIA	BY:	JB	DATE:	5/84
ON SITE DRAINAGE						

### BASIC ASSUMPTIONS

Rational Formula  $Q = C_i \Delta$

use  $C = 0.95$

use  $t_c \leq 10 \text{ min}$

$$\therefore i = (2.5)(6.84)(10^{-0.51}) \quad \text{D.R.M. 22.2 D.2}$$

$$= 53 \text{ in/hr}$$

Orifice Equation  $Q = C_a \sqrt{2gh}$

use for grated inlet and outfall pipe

use  $C = 0.6$

### AREA RUNOFF

Area A - Direct Runoff

$$\text{Area} = 1370 \text{ \#}$$

$$Q = (0.95)(5.3)(1370/43560)$$

$$= 0.16 \text{ cfs}$$

Area B - Direct Runoff

$$\text{Area} = 484 \text{ \#}$$

$$Q = (0.95)(5.3)(484/43560)$$

$$= 0.06 \text{ cfs}$$

Area C - Controlled Runoff

$$\text{Area} = 9,430 \text{ \#}$$

$$Q = (0.95)(5.3)(9,430/43560)$$

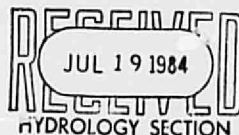
$$= 1.09 \text{ cfs}$$

Area D - Controlled Runoff

$$\text{Area} = 12,625 \text{ \#}$$

$$Q = (0.95)(5.3)(12,625/43,560)$$

$$= 1.46 \text{ cfs}$$



DMJM/AHA ALBUQUERQUE	PROJECT	TEXACO	PROJECT NO	4631-03-01	PAGE	2
	SUBJECT	JUAN TABO @ CANDELARIA	BY:	JJB	DATE:	5/84
ON SITE DRAINAGE						

### GRATED INLETS

#### Area C

$$Q = 1.09 \text{ cfs}$$

$$\text{available head} = 0.33' \text{ use } 0.25'$$

$$1.09 = 0.6 a \sqrt{2g(0.25)}$$

$$a = 0.45 \text{ ft}$$

using 50% clogged 70% opening

$$\text{min grate } 0.45 / (0.5)(0.7) = 1.29 \text{ ft use } 2' \times 2' = 4 \text{ ft}$$

#### Area D

$$Q = 1.46 \text{ cfs}$$

$$\text{available head} = 0.25' \text{ use } 0.17'$$

$$1.46 = 0.6 a \sqrt{2g(0.17)}$$

$$a = 0.74 \text{ ft}$$

$$\text{min grate } 0.74 / (0.5)(0.7) = 2.10 \text{ ft use } 2' \times 2' = 4 \text{ ft}$$

### OUTFALL PIPES

#### D to City Basin

$$Q = 2.55 \text{ cfs, try } 10" \text{ PVC}$$

$$2.55 = (0.6)(0.55) \sqrt{2gh}$$

$$h = 0.93 \text{ ft. } 2.5 \text{ ft available } \therefore \text{ok}$$

#### C to D

$$Q = 1.09 \text{ cfs}$$

$$1.09 = 0.6 a \sqrt{2g(1)}$$

$$a = 0.23 \text{ ft}$$

$$r = 0.27 \text{ ft}$$

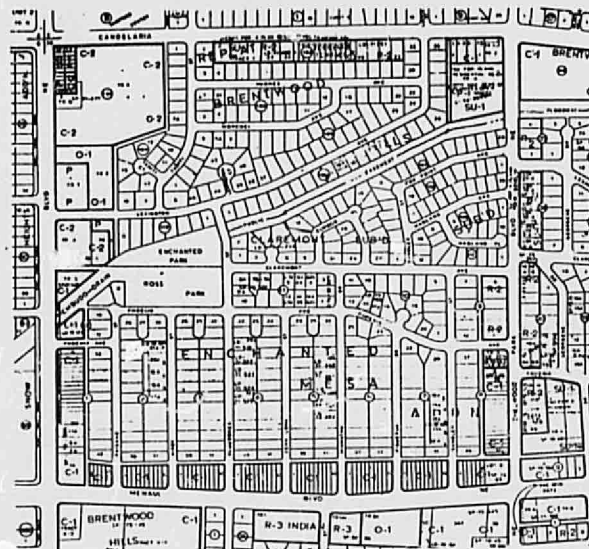
use 8" pipe.

Note: all overflows are directed thru driveway to



# CITY OF ALBUQUERQUE

## DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY



SITE LOCATION MAP ITS

LOT 4-f  
Brentwood Hills Subdivision  
OWNER: TEXACO, INC.



**NT**

### NOTICE TO CONTRACTOR

1. 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.
2. All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with "Contract Documents for City-Wide Utilities and Cash Paving No. 84-1"
3. 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.
5. Backfill compaction shall be according to arterial street use.

<i>Paul Gonzales</i>			<i>D-103</i>	
APPROVALS	NAME	DATE	TITLE: Gas Bar, Food Mart for Texaco, Inc. 2932 Juan Tabo Blvd. NE	
A.C.E./DESIGN	<i>J. L. Lusk</i>	7/16/84	PERMIT NO. <i>R17024</i> SHEET 1 OF 2	
INSPECTOR	<i>Jerry L. Lusk</i>	12/5/84		
A.C.E./FIELD	<i>W. J. Lusk</i>	12/10/84		
			MAP NO. H-22	

## DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY



D-103

APPROVALS	NAME	DATE	TITLE:	
A.C.E./DESIGN	<i>[Signature]</i>	7/6/89	Gas Bar, Food Mart for Texaco, Inc. 2932 Juan Tabo Blvd. NE	
INSPECTOR	<i>[Signature]</i>	12/5/84	PERMIT NO.	MAP NO. H-22
A.C.E./FIELD	<i>[Signature]</i>	12/10/84	SHEET 2 OF 2	