City of Albuquerque

July 5, 2000

Ronald R. Bohannan, P.E.
Tierra West, LLC
8509 Jefferson, NE,
Albuquerque, NM 87113

RE: ENGINEER'S CERTIFICATION FOR CHRYSLER SERVICE CENTER,(D-19/ D005), ENGINEER'S STAMP DATED 11/23/99, CERTIFICATION DATED 06/26/2000.

Dear Mr. Bohannan,

Based upon the information provided in your submittal dated June 27, 2000, the Engineering Certification for Certificate of Occupancy for the project referred to above is approved.

If you have any questions, please call me at 924-3988.

Sincerely,

Stuart Reeder, P.E.

Stuart Reeder, P.E.
Hydrology Division

xc: Whitney Reierson
File

City of Albuquerque

December 6, 1999

Ronald R. Bohannan, P.E.
Tierra West LLC
4421 McLeod Rd. NE, Suite D
Albuquerque, NM 87109

Attn: Sara McCollam

RE: CHRYSLER SERVICE CENTER (D19-D5). GRADING AND DRAINAGE PLAN FOR BUILDING PERMIT APPROVAL. ENGINEER'S STAMP DATED NOVEMBER 23, 1999. PLAN UPDATED FROM JULY 1999.

Dear Mr. Bohannan:

Based on the information provided on your November 23, 1999 submittal, the above referenced project is approved for Buildind Permit. Note that Building Permit covers Grading and Foundation Permits.

The Work Order for the public alley, City Project No. 6119.81, has not yet been executed. The spot elevations that were added to the November 23, 1999 G&D Plan match or are within one- to two-tenths of a foot of it and should not cause any concern during construction.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Prior to Certificate of Occupancy approval, an Engineer's Certification per the DPM will be required.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,

John P. Murray, P.E.
Hydrology

c: WR
File

10500 Lomas Boulevard N.E.

November 12, 1999

1111 University Boulevard, N.E.

To Whom It May Concern:

French Mortuary is opposed to sharing a driveway with Chrysler Corporation atg 7121 Wyoming Blvd., N.E. It would adversely affect traffic flow and the overall operation of the mortuary. I'm available to meet with you to answer any questions you might have.

Sincerely,

Chester French Stewart
President

CFS:mh

7121 Wyoming Boulevard, N.E.

French
NORTH IRIS

Family owned since 1907

Post Office Box 27063
Albuquerque, New Mexico 87125
(505) 821-6333
FAX (505) 217-3328

GOLDEN RULE

DRAINAGE REPORT

for

Chrysler Service Center

Prepared by

Tierra West, LLC
4421 McLeod Road NE, Suite D
Albuquerque, New Mexico 87109

Prepared for

Pat Joseph
PJ Development Inc. Commercial Construction
P.O. Box 14903
Albuquerque, New Mexico 87191

July 1999

RONALD RAY BOHANNAN REGISTERED NEW MEXICO PROFESSIONAL ENGINEER 7868

Ronald R. Bohannan P.E. No. 7868

RECEIVED
JUL 30 1999
HYDROLOGY SECTION

TABLE OF CONTENTS

Location

This site is the location of a proposed Chrysler Service Center. It is located west of Wyoming and south of the North Arroyo del Pino. The site is shown on the attached Zone Atlas Map D-19 and contains approximately 1.35 acres. The purpose of this report is to provide the drainage analysis and management plan for the subdivision.

Existing Drainage Conditions

There is an existing building pad on the site and an existing asphalt parking lot. All of the former improvements are abandoned and are in severe disrepair. There is an existing 20' public alley easement located on the north side of the site near the Pino Arroyo. There is one existing basin on the site with an undeveloped runoff flow of 3.51 cfs. The site currently flows towards the west side of the site and then south to the southwest corner. An existing concrete rundown in the southwest corner conveys the flows from the site to the North Arroyo del Pino.

There are no offsite flows entering the site. Wyoming Boulevard and the North Arroyo del Pino prevent any flows from entering the site from the north and east. The existing French Mortuary intercepts any flows from the south. The natural topography of the site keeps any flows from the west from entering the site.

FIRM Map and Soil Conditions

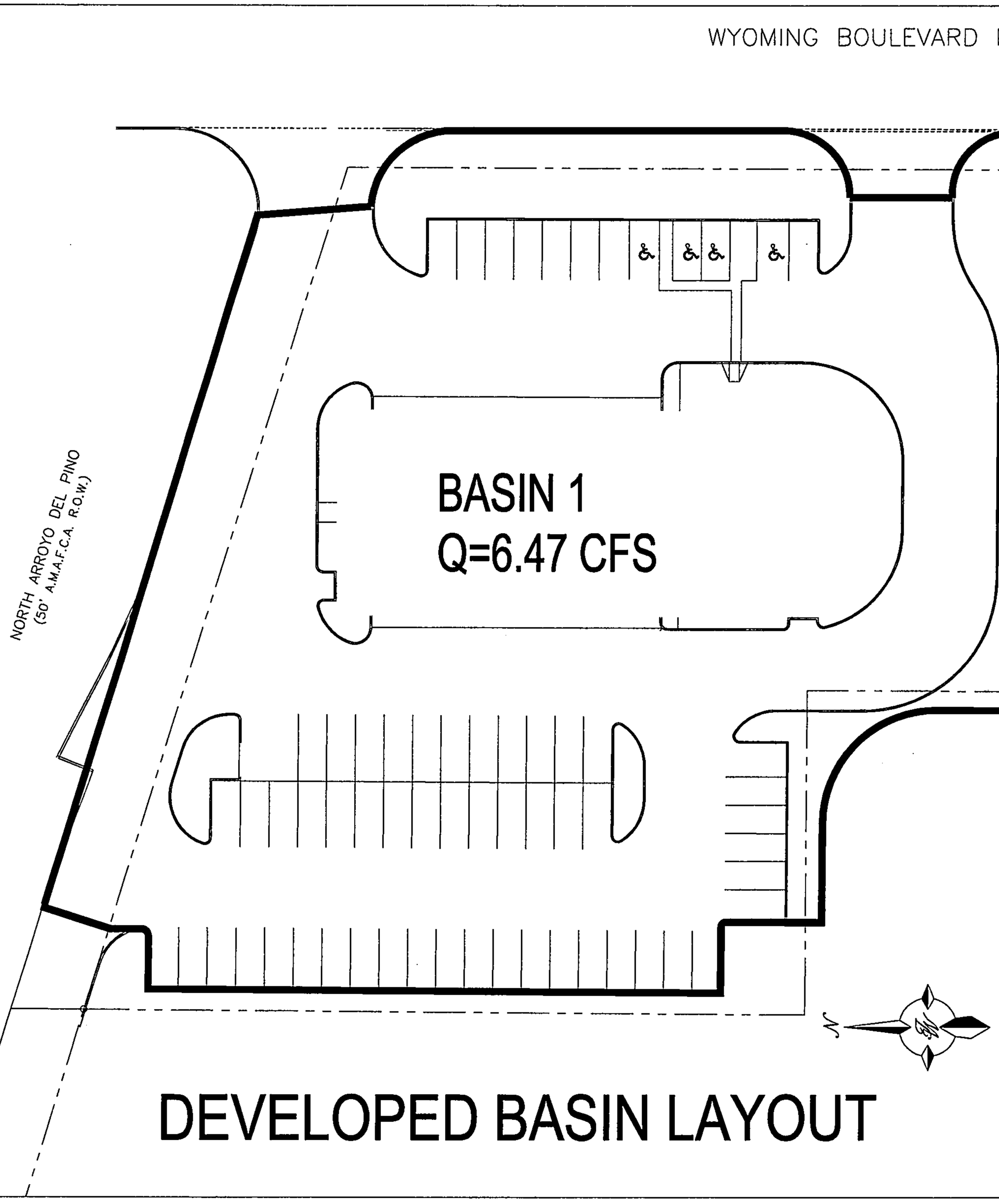
The site is located on FIRM Map 35001C0141 D as shown on the attached excerpt. The maps shows that the site does not lie within any 100 year flood plains.

The site contains one soil type from the soil Conservation Service Soil Survey of Bernalillo County. The Embudo-Tijeras complex has medium runoff and the hazard of water erosion is moderate.

On-Site Drainage Management Plan

The site is addressed under an approved drainage plan that was developed by Jeff Mortensen & Associates (D-19/D5B). The approved drainage report is for the site located to the west and is intended as overflow parking for French Mortuary. The report states that the Chrysler Service Center site is to drain north to the existing public alley. The alley will convey the flows west to an existing concrete rundown to the Pino Arroyo.

The Chrysler Service Center follows the approved drainage pattern. There is one developed basin on the site discharging 6.47 cfs of developed flow. This basin flows north towards the alley. The flows will enter the arroyo near the west end of the site. Since this discharges directly to the Pino Arroyo there is no need for an emergency overflow section. All of the improvements will be private with the exception of the public alley on the north side.



DEVELOPED BASIN LAYOUT

RUNOFF CALCULATIONS

The site is @ Zone 3 .

LAND TREATMENT

Proposed
B = 10 %
D = 90 %

Existing
B = 100%

DEPTH (INCHES) @ 100-YEAR STORM

P_{60} = 2.14 inches

P_{360} = 2.60 inches

P_{1440} = 3.10 inches

DEPTH (INCHES) @ 10-YEAR STORM

P_{60} = 2.14 x 0.667
= 1.43 inches

P_{360} = 1.73

P_{1440} = 2.07

Drainage Basins

Existing and Developed Basins

BASIN	AREA (SF)	AREA (AC)	AREA (MI^2)
1	58872.35	1.3515	0.002112

Runoff Calculation Results

Existing

BASIN	Q-100 CFS	Q-10 CFS	V-100 AC-FT	V-10 AC-FT
1	3.51	1.58	0.104	0.040

Developed

BASIN	Q-100 CFS	Q-10 CFS	V-100 AC-FT	V-10 AC-FT
1	6.47	4.22	0.249	0.156

AHYMO SUMMARY TABLE (AHYMO194) - AMAFCA Hydrologic Model - January, 1994 RUN DATE (MON/DAY/YR) =07/21/1999
INPUT FILE = A:EP.DAT USER NO.= R_BOHANN.I01

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	NOTATION	
START										TIME=	.00
RAINFALL TYPE= 1										RAIN6=	2.600
COMPUTE NM HYD	100.10	-	1	.00211	3.51	.104	.92103	1.499	2.599	PER IMP=	.00
START										TIME=	.00
RAINFALL TYPE= 1										RAIN6=	1.730
COMPUTE NM HYD	110.10	-	1	.00211	1.58	.040	.35547	1.533	1.170	PER IMP=	.00
START										TIME=	.00
RAINFALL TYPE= 1										RAIN6=	2.600
COMPUTE NM HYD	100.10	-	1	.00211	6.47	.249	2.21172	1.499	4.790	PER IMP=	90.00
START										TIME=	.00
RAINFALL TYPE= 1										RAIN6=	1.730
COMPUTE NM HYD	110.10	-	1	.00211	4.22	.156	1.38160	1.500	3.122	PER IMP=	90.00
FINISH											