

Martin J. Chávez, Mayor

Robert E. Gurulé, Director

April 8, 1997

Jackie S. McDowell
McDowell Engineering, Inc.
7200 Valley Forge Pl. NE
Albuquerque, New Mexico 87109

RE: DRAINAGE PLAN FOR RICHARDSON CAR LOT (G14-D15) ENGINEER'S STAMP
DATED 4/1/97

Dear Ms. McDowell:

Based on the information provided on your April 3, 1997 submittal, the above referenced site is approved for Building Permit.

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

Also, Engineer Certification per the DMP checklist will be required prior to CO release.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia
File

Sincerely

A handwritten signature in cursive script that reads 'Bernie J. Montoya'.

Bernie J. Montoya CE
Engineering Associate

Good for You, Albuquerque!

P.O. Box 1293, Albuquerque, New Mexico 87103



DRAINAGE INFORMATION SHEET

PROJECT TITLE: RICHARDSON CAR LOT ZONE ATLAS/DRNG. FILE #: G-14/1715
DRB #: _____ EPC #: _____ WORK ORDER #: _____
LEGAL DESCRIPTION: LOT 1-A AND LOT 5, DAVIDSON ADDITION NUMBER TWO
CITY ADDRESS: FOURTH STREET NW
ENGINEERING FIRM: MCDOWELL ENGINEERING, INC. CONTACT: JACKIE MCDOWELL
ADDRESS: 7200 VALLEY FORGE PL. NE PHONE: 828-2430
OWNER: RICHARDSON'S CONTACT: RICHARDSON'S
ADDRESS: 1115 SAN MATEO NE PHONE: 266-5871
ARCHITECT: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
SURVEYOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CONTRACTOR: RAY'S REMODELING CONTACT: RAY COUGHENOUR
ADDRESS: 717 VALENCIA SE 87108 PHONE: 265-4905

TYPE OF SUBMITTAL:

CHECK TYPE OF APPROVAL SOUGHT:

☐ DRAINAGE REPORT
☒ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAIN. PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION
☐ OTHER _____

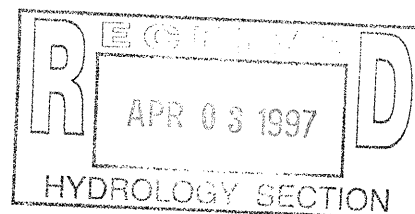
☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ S.DEV PLAN FOR SUB'D APPROVAL
☐ S.DEV PLAN FOR BLDG PMT APPR.
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☒ BUILDING PERMIT APPROVAL
☐ CERT. OF OCCUPANCY APPROVAL
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☐ OTHER _____ (SPECIFY)

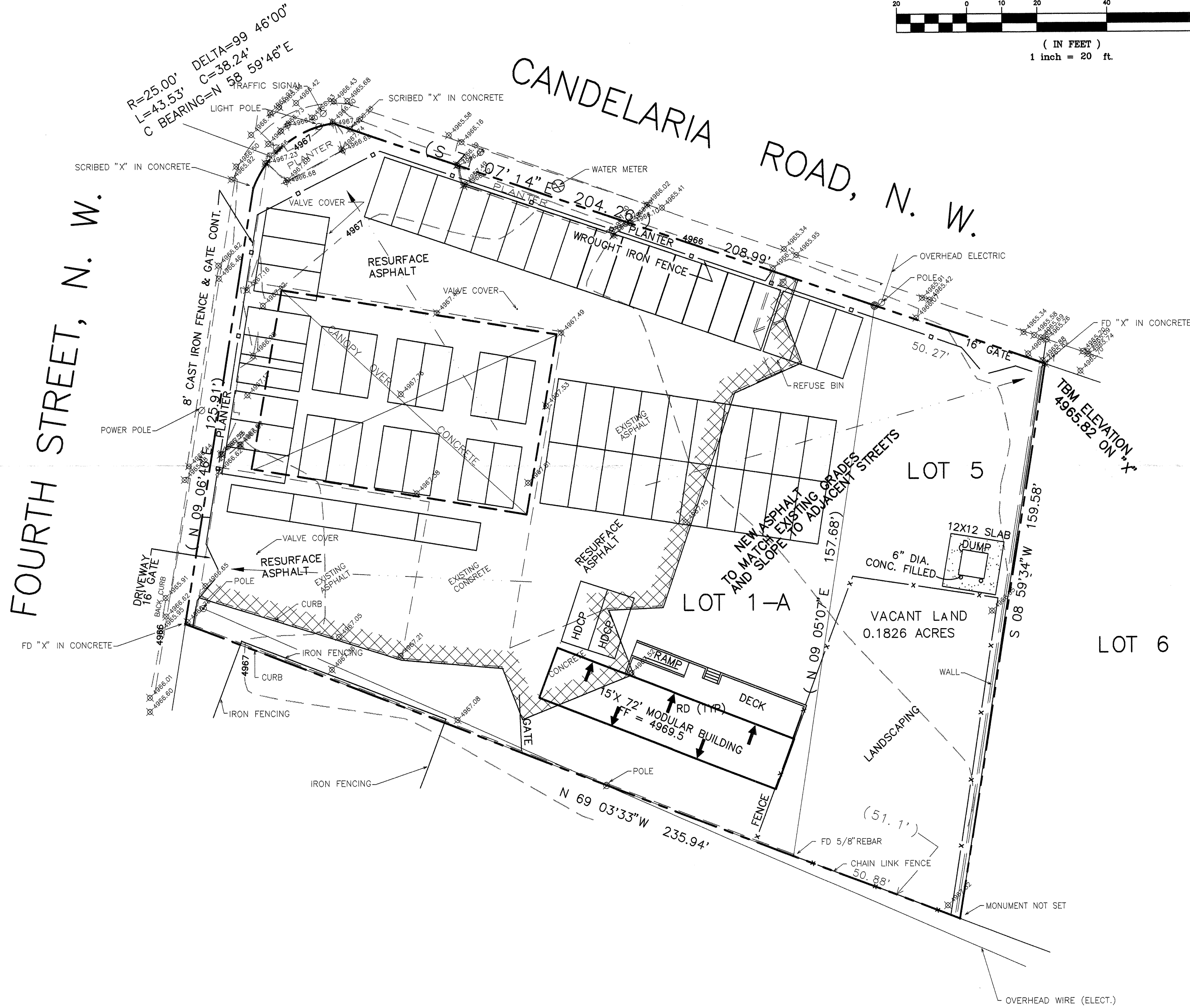
PRE-DESIGN MEETING:

☐ YES
☒ NO
☐ COPY PROVIDED

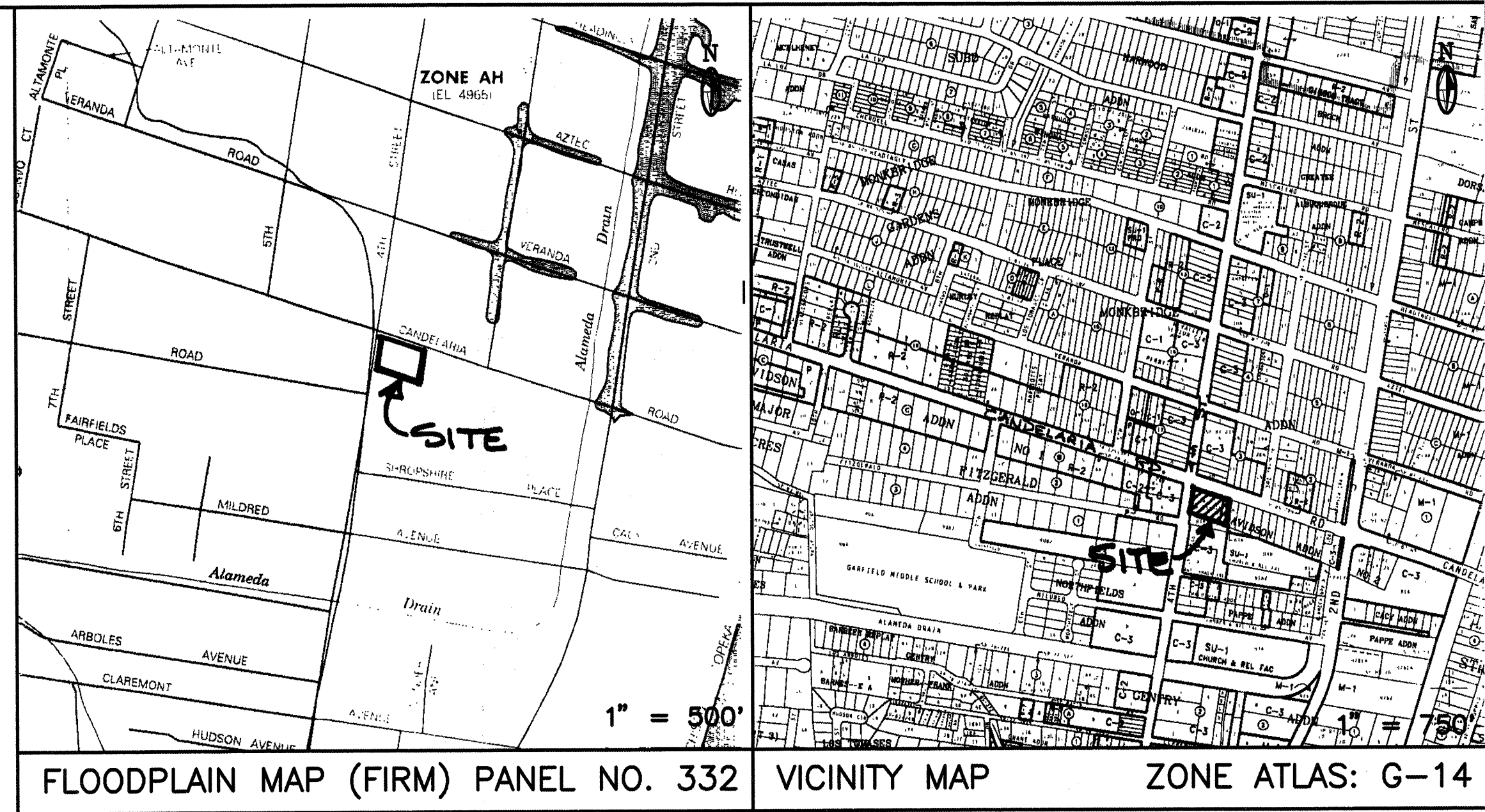
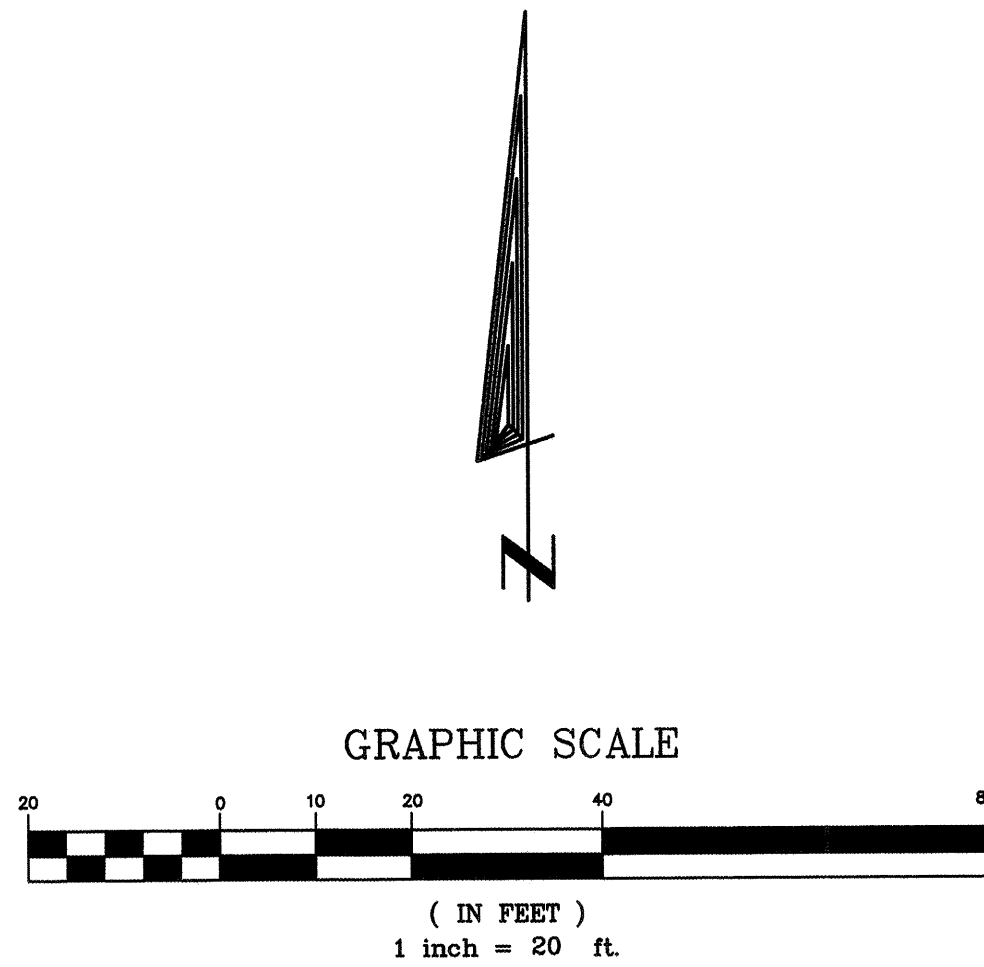
DATE SUBMITTED: APRIL 2, 1997

BY: JACKIE S. MCDOWELL, P.E.





LOT 1-A AND LOT 5,
DAVIDSON ADDITION NUMBER TWO
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO



DRAINAGE PLAN

SCOPE:

Pursuant to the latest City of Albuquerque Drainage Ordinance, the Drainage Plan shown hereon outlines the drainage management criteria for controlling developed runoff on and exiting the project site. One modular building is proposed for the subject property, with associated access, parking, and landscaping.

EXISTING CONDITIONS:

Presently the 0.82 acre site is developed. The site is bounded on the north by Candelaria Road NW and the west by Fourth Street NW and on the east and south by commercial property. The site currently paved over approximately 55 percent with the remainder being hard packed dirt. The site is relatively level and slopes to the north and west into the public roadways. Offsite flows do not enter the site.

As shown by Floodway Map No. 332, dated 1996, the site is not located in a 100-year flood plain.

PROPOSED CONDITIONS:

As shown by the plan, the proposed modular building site is located within the high point of the lot. On site flows will drain around the structure as currently doing so. All roof drainage will discharge from the roof to the lot and be directed around the structure to existing drainage paths. Access will be taken from Fourth Street.

The calculations prepared for this development indicate that the 100 year storm runoff from the site will be increased by less than 10 percent; therefore, ponding has not been included with the re-development of the site. We believe that the increase in landscaping area for the site will retain/detain more runoff generated by the development than pre-development status. The proposed paving for the site will match existing grades and elevations as to maintain existing flow conditions. The site does not contribute to a 100-year flood plain in the area.

CALCULATIONS:

The calculations shown hereon define the 100 year-6 hour design storm falling within the project area under existing and developed conditions. The Hydrology is per "Section 22.2, Hydrology of the Development Process Manual, Volume 2, Design Criteria, for the City of Albuquerque, New Mexico in cooperation with Bernalillo County, New Mexico and the Albuquerque Metropolitan Arroyo Flood Control Authority.

PROPERTY ADDRESS:

Fourth Street NW

TOPOGRAPHY:

Topographic information provided by E. Maxwell Doak dated March 11,1997.

Project: RICHARDSON CAR LOT ON-SITE CALCULATIONS

01-Apr-97

Calculations: Total Basin
Calculations are based on "Section 22.2 Hydrology of the Development Process Manual, Volume 2, Design Criteria for the City of Albuquerque, New Mexico, January 1993 - basins < 40 acres".

Precipitation Zone = 2
Depth at 100-year, 6-hour storm: (Table A-2) P = 2.35 inches

Land Treatments:
From Table 5 - Percent Treatment D
Single Family Residential =
7*SCAR(N*N) + (8*N)
where N = unbalance
N = 0.00, ok < 6
Therefore Percent Treatment D = 0.00%
(includes local streets)

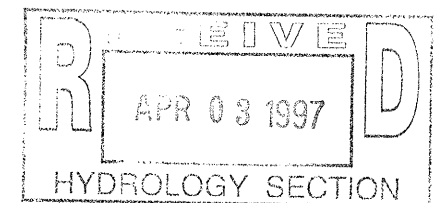
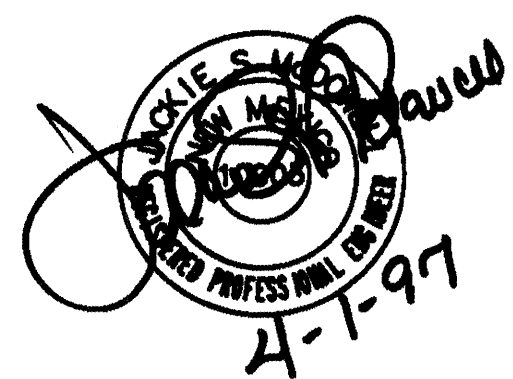
Area: (acres)	Existing	Proposed
Treatment A	0.00	0.00
Treatment B	0.00	0.11
Treatment C	0.37	0.00
Treatment D	0.45	0.71
Total (acres) =	0.82	0.82

Volume	100 year Existing	100 year Proposed	10 year Existing	10 year Proposed	2 year Existing	2 year Proposed
Volume (acre-feet) =	0.11	0.13	0.07	0.08	0.03	0.05
Volume (cubic feet) =	4,981	5,775	2,887	3,565	1,492	2,044

Total Q(q), cfs:	100 year Existing	100 year Proposed	10 year Existing	10 year Proposed	2 year Existing	2 year Proposed
Treatment A	0.00	0.00	0.00	0.00	0.00	0.00
Treatment B	0.00	0.25	0.00	0.10	0.00	0.01
Treatment C	1.16	0.00	0.63	0.00	0.22	0.00
Treatment D	2.12	3.34	1.41	2.83	0.84	1.32
Total Q (cfs) =	3.28	3.59	2.05	2.93	1.06	1.33

	LEGEND	
	EXISTING	PROPOSED
CONTOUR	5800	5850
PROPERTY LINE	---	---
ROAD	---	---
SETBACK	---	---
WALL	---	---
BUILDING	---	---
LIMITS OF ASPHALT	---	---
PARKING SPACE	---	---
SPOT ELEVATION	---	---

○ FOUND/SCRIBED "X" IN CONCRETE AT ALL CORNERS
BASIS OF ELEVATIONS 7-G14A. PUBLISHED ELEVATION=4966.54 FEET.



CITY OF ALBUQUERQUENEW MEXICO

LOT 1-A AND LOT 5
DAVIDSON ADDITION NUMBER TWO

RICHARDSON GRADING & DRAINAGE PLAN

McDowell Engineering Inc.

Designed JSM Drawn STAFF Checked JSM Sheet of
File RICO197L Date APRIL, 199711