City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 12, 1994

Freeman Leaming
Leedshill Herkenhoff, Inc.
500 Copper NW
P.O. Box 1217
Albuquerque, N.M. 87103

RE: DRAINAGE REPORT FOR US WEST NVG (J-19/D62)
RECEIVED SEPTEMBER 23, 1994 FOR BUILDING PERMIT APPROVAL
ENGINEER'S STAMP DATED 9-16-94

Dear Mr. Leaming:

Based on the information included in the submittal referenced above, City Hydrology has the following comments:

1. Modifications and/or additions to existing structures constituting less than 500 square feet, in plan view, do not require Hydrology approval for Building Permit.

2. Repaving of existing paved areas, in which no grading is planned, does not require a Paving Permit.

3. Based on 1 & 2, a Drainage Report is not required for this project. If a Drainage Report is required for a reason not disclosed in the submittal, then it must comply with the DPM checklist.

If you have any questions about this project, You may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.
Civil Engineer/Hydrology

c: Andrew Garcia

WPHYD/8877/jpc

J19/D62

DRAINAGE INFORMATION SHEET

PROJECT TITLE: US West NVG Poquito Site ZONE ATLAS/DRNG. FILE #: J-19-Z

DRB #: _____ EPC#: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: See Attached title sheet with description.

CITY ADDRESS: 1803 Louisiana Blvd., NE, Albuquerque, NM 87110

ENGINEERING FIRM: Leedshill-Herkenhoff, Inc. CONTACT: Freeman Leaming

ADDRESS: 500 Copper Ave NW, Alb, NM PHONE: 247-0294

Developer
~~OWNER~~: US West New Vector Group CONTACT: Van Stilson

ADDRESS: 4821 Eubank Blvd NE, Alb. NM PHONE: (505) 298-6095

ARCHITECT: Leedshill-Herkenhoff, Inc. CONTACT: David Klein

ADDRESS: 500 Copper Ave, NW, Alb. NM PHONE: 247-0294

SURVEYOR: Community Sciences Corp. CONTACT: Andrew Medina

ADDRESS: P.O. Box 1328, Corrales NM 87048 PHONE: 891-1400

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

✓ DRAINAGE REPORT

_____ DRAINAGE PLAN

_____ CONCEPTUAL GRADING & DRAINAGE PLAN

_____ GRADING PLAN

_____ EROSION CONTROL PLAN

_____ ENGINEER'S CERTIFICATION

_____ OTHER

PRE-DESIGN MEETING:

_____ YES

_____ NO

_____ COPY INCLUDED

CHECK TYPE OF APPROVAL SOUGHT:

_____ SKETCH PLAT APPROVAL

_____ PRELIMINARY PLAT APPROVAL

_____ S. DEV. PLAN FOR SUB'D. APPROVAL

_____ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL

_____ SECTOR PLAN APPROVAL

_____ FINAL PLAT APPROVAL

_____ FOUNDATION PERMIT APPROVAL

✓ BUILDING PERMIT APPROVAL

_____ CERTIFICATE OF OCCUPANCY APPROVAL

_____ GRADING PERMIT APPROVAL

_____ PAVING PERMIT APPROVAL

_____ S.A.D DRAINAGE REPORT

_____ DRAINAGE REQUIREMENTS

_____ OTHER _____ (SPECIFY)

DATE SUBMITTED: 9-19-94

BY: Tom Blaine

SEP 23 1994

8877

LEEDSHILL-HERKENHOFF, INC.
500 Copper Avenue N.W.
P. O. Box 1217
Albuquerque, New Mexico 87103
(505) 247-0294

2137-94008.18-94

September 19, 1994

Mr. Fred Aguirre, P.E.
PWD/Utility Development/Hydrology Section
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

RE: US WEST NEWVECTOR GROUP
POQUITO SITE, 1803 LOUISIANA BLVD. NE, ZONE ATLAS PAGE NO. J-18-Z

Leedshill-Herkenhoff, Inc. (LH) has prepared this letter drainage report for the above referenced project site.

Included with this letter, you will find the Drainage Information Sheet, the drainage area map for the drainage area, the site plan for the proposed US West NewVector Group facilities (sheets G1 and C1), and the drainage calculations performed in accordance with Section 22.2 of the Development Process Manual for the City of Albuquerque. Only sheets G1 and C1 have been included in this report. If a full set of drawings (architectural, mechanical, and electrical drawings) is required, please contact me.

The site plan shows the US West project which consists of installing approximately 6 lf of underground electric service line. This will involve the removal and replacement of asphalt pavement and other materials as required for the trenching. The trenching will be done according to Public Service Company of New Mexico trenching standards. The remainder of the project involves renovation of a portion of the interior of the building. This project will not alter the existing site drainage patterns, flow directions, or peak runoff rates.

Runoff calculations were performed for the site encompassing the US West NewVector Group project for both existing site and the site with the proposed work (see attached runoff calculations). Runoff calculations were not performed for the area of the trenching by itself since it will be replaced in kind after the trenching. The results are summarized below:

	EXISTING CONDITIONS	PROPOSED IMPROVEMENTS
Total Site Drainage area:	0.3867 Ac.	0.3867 Ac.
Total Site Peak Runoff:	1.92 cfs.	1.92 cfs.

SEP 23 1994

LEEDSHILL - HERKENHOFF, INC.

In addition, the building on this site and the site work area are not located within the 100-year floodplain as indicated on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps.

LH requests your approval for a building permit for the above referenced site.
If additional information is required, please advise. If you have any questions, please call me at 247-0294.

Tom Blaine

TOM BLAINE, P.E.

fl:tb:pao

Enclosures

cc: Mr. Van Stilson, US West NewVector Group, w/enc.
Mr. David Klein, LH, w/o enc.

SEP 2 3 1994

LEEDSHILL-HERKENHOFF, INC.

JOB NO: 94008.18
JOB TITLE: US WEST POQUITO
DATE: 15 Sep 94
BY: Freeman G. Leaming
CHECKED BY:

HYDROLOGY FOR SMALL WATER SHEDS<40 ACRES
THIS SPREAD SHEET ONLY GOOD FOR 100 YR, 10 YR, AND 2 YR 6 HOUR STORMS

Source: Section 2.2, Hydrology of the Development Process Manual
January 1993

GENERAL DATA

DRAINAGE AREA — **TOTAL LOT: EXISTING**

SITE PRECIPITATION ZONE (Figure A-1):	3	
DESIGN STORM:	100	year
	6	hour event
DEPTH IN INCHES 100 YR STORM (Table A-2):	2.6	inches

SUMMARY DRAINAGE AREA — TOTAL LOT: EXISTING

Total Area =	0.3867	acres
Excess Precip =	2.33	inches
Vol. Runoff =	0.07	acre-feet
Intensity =	5.38	inches/hour
Peak Dischrg. =	1.92	cfs
Q Rational M. =	1.91	cfs

DETAILED CALCULATIONS

> AREA IN DIFFERENT LAND TREATMENTS-FROM PLANS (Table A-4)

LAND TREATMENTS	AREA
A	0.0000
B	0.0090
C	0.0000
D	0.3777
TOTAL AREA	**0.3867** acres

= = = = = = = = = = = =

> EXCESS PRECIPITATION AND VOLUMETRIC RUNOFF-

LAND TREATMENT	TABLE A-8	
A	0.66	inches
B	0.92	inches
C	1.29	inches
D	2.36	inches

(continues)

SEP 23 1994

LEEDSHILL-HERKENHOFF, INC.

JOB NO: 94008.18
JOB TITLE: US WEST POQUITO
DATE: 15 Sep 94
BY: Freeman G. Leaming
CHECKED BY:

> EXCESS PRECIPITATION AND VOLUMETRIC RUNOFF- (continued)

WEIGHTED EXCESS

E = 2.33 INCHES

VOLUME

V = 0.90 acre-inches
0.07 acre-feet

> PEAK DISCHARGE RATE

LAND TREATMENT	TABLE A-9	
A	1.87	cfs/acre
B	2.60	cfs/acre
C	3.45	cfs/acre
D	5.02	cfs/acre
Qa	0.00	cfs
Qb	0.02	cfs
Qc	0.00	cfs
Qd	1.90	cfs
TOTAL Qp FROM AREA (Equation a-10)	1.92	cfs

> RATIONAL METHOD CHECK-Q = CiA

	TABLE A-10	
INTENSITY:	5.38	IN/HR

LAND TREATMENT	TABLE A-11	
A	0.35	Rational Method Coefficient
B	0.48	Rational Method Coefficient
C	0.64	Rational Method Coefficient
C	0.93	Rational Method Coefficient
Qa	0.00	cfs
Qb	0.02	cfs
Qc	0.00	cfs
Qd	1.89	cfs
TOTAL Q FROM AREA	1.91	cfs

SEP 2 1994

LEEDSHILL-HERKENHOFF, INC.

JOB NO: 94008.18
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DATE: 15 Sep 94
BY: Freeman G. Leaming
CHECKED BY:

> EXCESS PRECIPITATION AND VOLUMETRIC RUNOFF-
(continued)

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(continues)

PNM SUBSTATION

Total Lot Drainage Area Boundary

N

LOT 15

UNDERGROUND PNM

FND #5 REBAR WITH CAP

N 89°36'39" E 81.96

(N 89°10'00" E 81.55)

POWER POLE

FND PK NAIL IN PAVING

CONC SIDEWALK

PARKING BUMPER (TYP)

WOOD FENCE

STREET LIGHT POLE

Proposed Work Area

LOT 3

LOT 16

(.1154 AC.)

D/W

See Note 1

ASPHALT

HEADER CURB

BOLLARD (TYP)

10' UTILITY ESMT.

COVERED (TYP)

See Note 1

POWER POLE

APPARENT ENCROACHMENT INTO RIGHT-OF-WAY

LOT 17

(.1217 AC.)

See Note 1

DEC. WALL (TYP)

LOT 2

CLEAN-OUTS

CONC SIDEWALK

CONC WALK

See Note 1

EXISTING BUILDING

STANDARD CURB AND GUTTER (TYP)

N 89°33'43" E 4.00

See Note 1

RAMP

FND PK NAIL IN FENCE

POWER POLE

See Note 1

CLEAN-OUTS

LOT 18

(.1496 AC.)

See Note 1

WOOD FENCE

RAMP

LOT 1

ASPHALT

See Note 1

SPRINKLER CONTROL BOX

GAS METER

CLEAN-OUTS

SIGNAL BOX

FND #5 REBAR WITH CAP

POWER POLE

STREET LIGHT

2445.15

(N 88°18'30" W 69.12)

W.C. RAMP

FND PK NAIL IN ASHPALT

N 87°42'56" W 73.08

SIGNAL BOX

TELE PED

FIRE HYD

POWER POLE

WATER METER

TRAFFIC SIGNAL POLE

FND #5 REBAR WITH CAP

UNDERGROUND PNM

HEADER CURB

STANDARD CURB AND GUTTER

Total Lot Drainage Area Boundary

LOUISIANA BOULEVARD, N.E.

(R/W VARIES)

CONSTITUTION AVENUE, N.E.

(70' R/W)

SEP 23 1994

Notes:

1. Land Treatment "B"

TOTAL LOT DRAINAGE AREA FROM DRAWING C-1 LEEDSHILL-HERKENHOFF, INC. FREEMAN LEMING 15 SEP 94

SITE PLAN

SCALE: 1" = 20'-0"