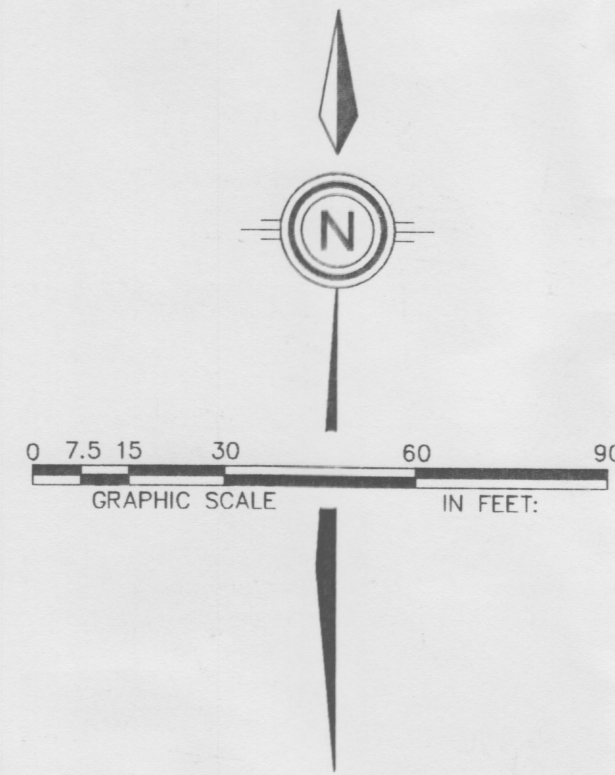




VICINITY MAP

NOT TO SCALE



DRAINAGE AREA PLAN

DRAINAGE PLAN

1: BACKGROUND

U S West Newvector Group, Inc. is currently planning for the development of U S West ABQ-Coors Cell Site. Located at the intersection of Vista Grande Dr. and West Cliff Road, Zone Atlas Page H-11 (see vicinity map this page). This site will be an addition to the existing (76'x80') Public Service Company of New Mexico substation, and will consist of a 12'x24' equipment building and 45' antennae.

2: EXISTING HYDROLOGY

Existing drainage on this site is contained by the block perimeter wall, with existing grading designed to contain all internal drainage. Per Firm Map 3500020021, no portion of the site lies within a FEMA 100yr floodplain. Peak discharge calculations were computed by use of peak discharge for small water sheds from COA DPM Section 22.2, A-6.

Site Area = .1425 AC *6207sf*

Land Uses: C = 0.0337ac D = 0.1088ac

Peak Discharge & Runoff:

$Q_{100} = 2.87 (.0337) + 4.37 (.1088) = 0.57 \text{ cfs}$

$V_{100} = (((0.0337(.99) + 0.1088(1.97)) / (.1425 / 12) \times .1425 \times 43560 = 899 \text{ cf}$

3: PROPOSED HYDROLOGY:

By the addition of the equipment building and antennae, drainage for the 100-year storm will be affected as follows:

SITE AREA = .1425 AC

LAND USES: C = .0271 AC D = .1154 AC

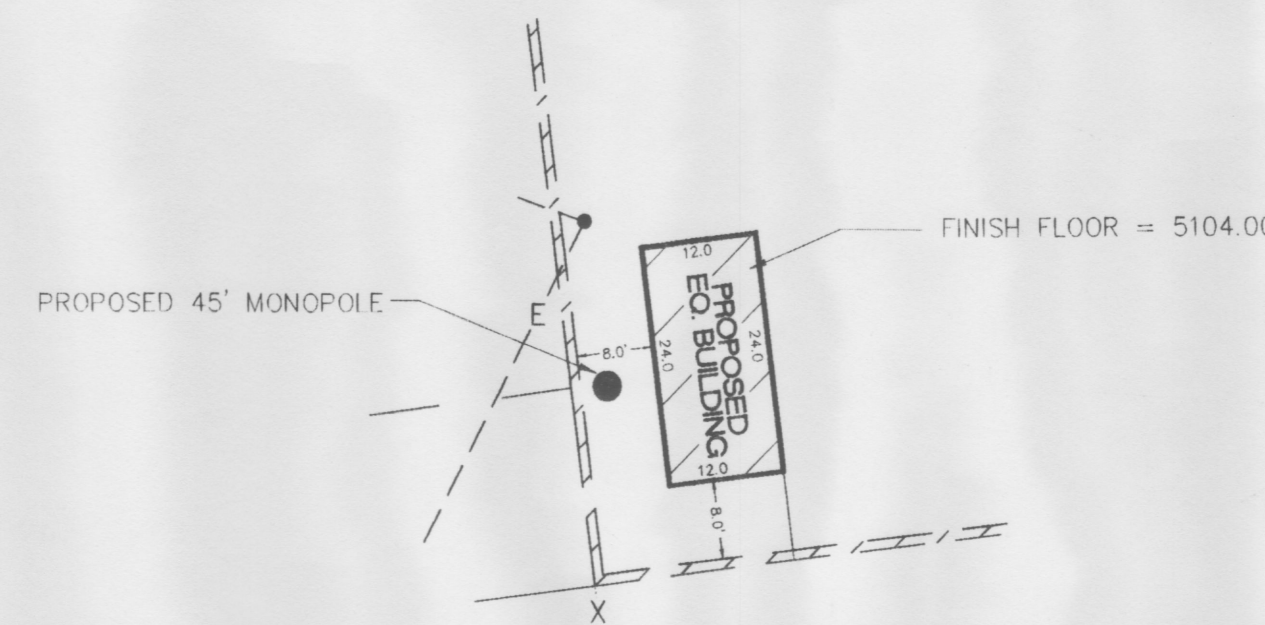
PEAK DISCHARGE & RUNOFF:

$Q = 2.87 (.0271 \text{ AC}) + 4.37 (.1154) = .58 \text{ CFS}$

$V_{100} (((.0271(.99) + .1154(1.97)) / (.1425 / 12) \times .1425 \times 43560 = 923 \text{ CF}$

4: CONCLUSION

The proposed development will add only negligible flows to this site and will not adversely affect the existing drainage characteristics of this site.



TOWER SITE GRADING PLAN

1" = 20'

community
sciences
corporation

LAND PLANNING ENGINEERING SURVEYING
P.O. Box 1328 Corrales, N.M. 87048

BENCHMARK:

THE BENCHMARK FOR THIS DRAINAGE PLAN IS AN ACS BRASS CAP CALLED "11-H11" HAVING AN ELEVATION OF 5098.51 FEET.

LEGAL DESCRIPTION:

A CERTAIN PARCEL OF LAND SITUATE WITHIN SECTION 11, TOWNSHIP 10 NORTH, RANGE 3 EAST, NEW MEXICO PRINCIPAL MERIDIAN, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, AS DESCRIBED ON THE PLAT ENTITLED "REPLAT OF BLOCKS 'D', 'E', 'G', 'H' AND 'I' OF THE PALISADES, AN ADDITION TO THE CITY OF ALBUQUERQUE, FEBRUARY 1967", SAID PLAT FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON MARCH 14, 1967 IN VOLUME C6, FOLIO 163.

LEGEND:

- 7500 = EXISTING CONTOURS
- x-x-x = WOOD FENCE
- x = CHAINLINK FENCE
- E- = OVERHEAD ELECTRIC LINE
- x 5103.39 = EXISTING SPOT ELEVATION
- ~ = FLOW ARROW
- [hatched] = EXISTING CONCRETE

U.S. West NewVector Group
ABQ-COORS CELL SITE
BERNALILLO COUNTY, NEW MEXICO

CSC JOB NO.: 91-02-600 DATE: 05-30-95

DRAINAGE PLAN

DRAWING NO.:

GD 1

RECEIVED
MAY 31 1995
HYDROLOGY DIVISION

Professional Engineer
10274
5-30-95