HYDROLOGY H13/D5 NO PLANS

H13/D5

No Plans

APPROVED FOR DRAINAGE

27 Aug 74
DATE

G. Kiehl
SIGNATURE

A-E
TITLE

CONTINGENCIES _____

Jerry D.

## GENERAL

This report presents the proposed drainage design for the Rio Grande Office Park, Albuquerque, New Mexico.

## LOCATION

Rio Grande Office Park is located at the southwest corner of Rio Grande Boulevard N.W. and Aspen Avenue N.W.

H-13

## EXISTING DRAINAGE

Presently all rainfall is infiltrated on site. The natural slope is to the Alameda Drain, mostly less than 0.5%.

## PROPOSED DRAINAGE DESIGN

Three infiltration pits of 1,000 cubic feet volume will be used to store and release runoff from roof and parking areas. The runoff from planted areas will be kept to a minimum natural infiltration. This could be improved by grading to planting areas.

## CONCLUSION

Approximately 50% of the area is open space which would be infiltrated, along with much of the roof runoff.

The runoff from the parking area would flow to the northwest corner of the site to two (2) infiltration areas. There will be ponding to some extent in a major storm which would drain to the infiltration areas.

From auger holes drilled on site, it appears that the upper 18" is clay and sand, and below this is sand only. By scarifying the upper crust, site infiltration could be improved in selected areas.

PERCOLATION TEST

8" Diameter Hole - 4 foot depth

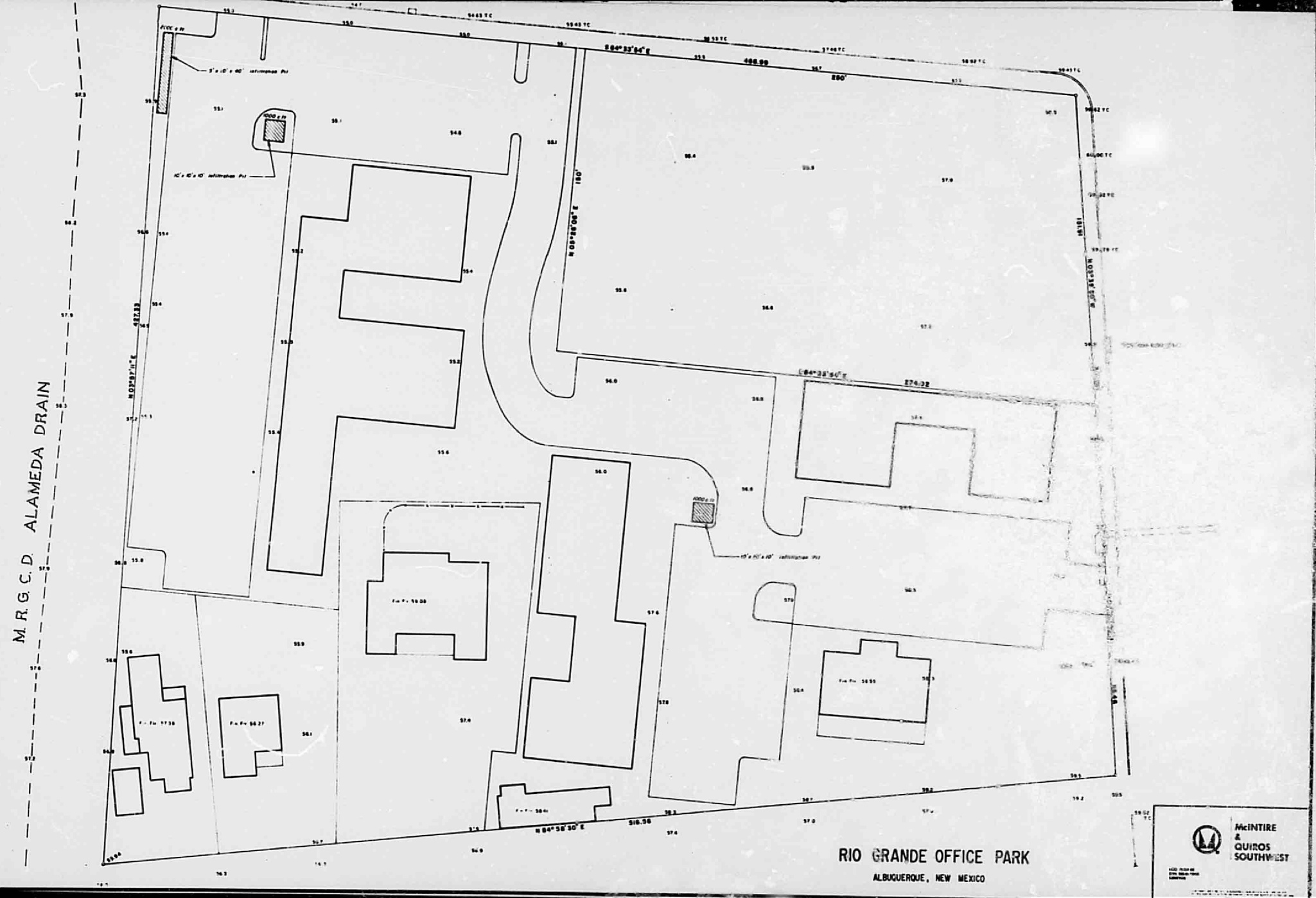
Material 0-18" hard clay and sand

18-48" sand

| Time | Draw-Down | Accumulative |
|---|---|---|
| 00 - | --- | --- |
| 10 | 2.25 " | 2.25 " |
| 20 | 1.25 " | 3.50 " |
| 30 | 1.25 " | 4.75 " |
| 40 | .75 " | 5.50 " |
| 50 | .50 " | 6.00 " |
| 60 | .75 " | 6.75 " |

Wm. J. McDermott

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR No. 1855 NEW MEXICO WM. J. McDERMOTT


M.R.G.C.D. ALAMEDA DRAIN
RIO GRANDE OFFICE PARK
ALBUQUERQUE, NEW MEXICO
McINTIRE & QUIROS SOUTHWEST