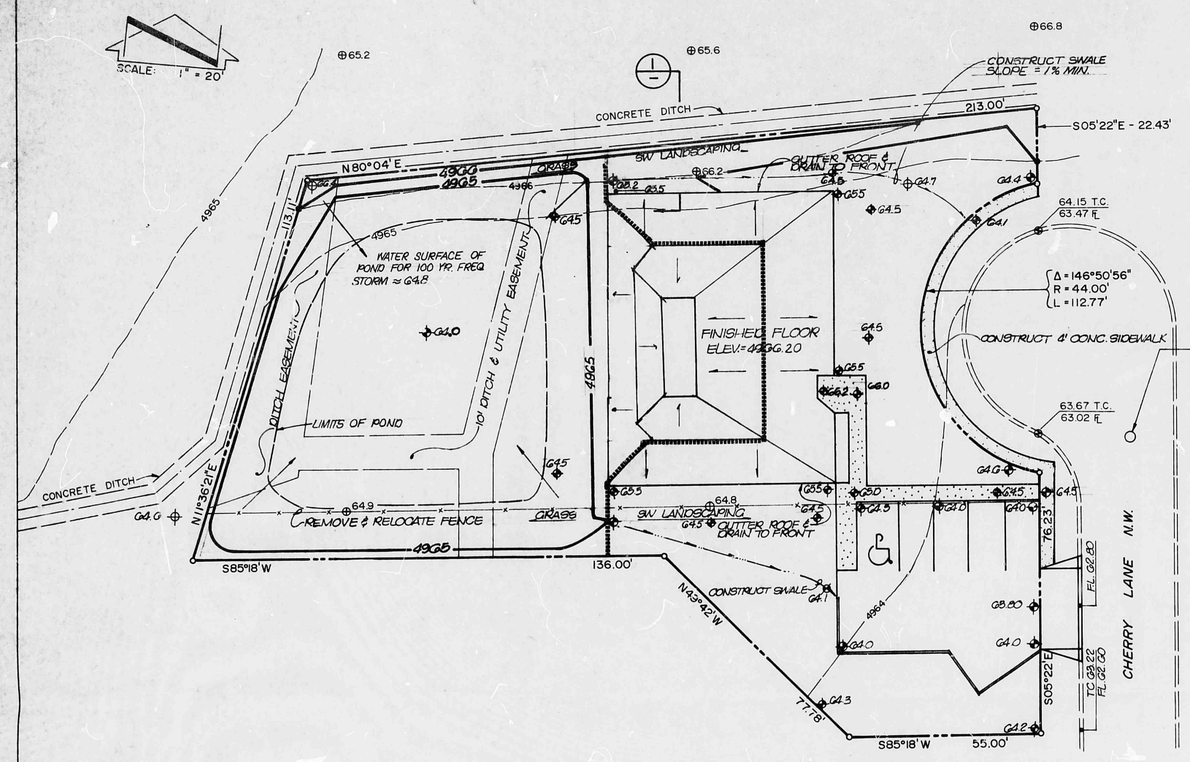
HYDROLOGY

H12/D4
ONE PLAN

H12/D4

1 Plan



SITE PLAN – GRADING

BENCHMARK:

A CITY OF ALBUQUERQUE MONUMENT 2-H-13
EAST NORTHEAST CURB RETURN AT RIO
GRANDE BLVD. NW AND INDIAN SCHOOL RD. NW
ELEVATION = 4961.46

LEGEND

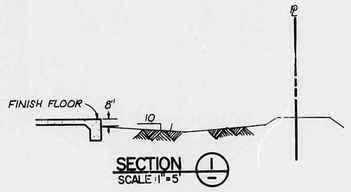
- PROPOSED SPOT ELEVATION
- EXISTING SPOT ELEVATION
- PROPOSED CONTOUR
- EXISTING CONTOUR

NOTICE TO CONTRACTORS

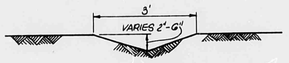
1. New Mexico Standard Specifications for Public Works Construction-1977 Edition will be referred to herein as the "Standard Specification."
2. All work detailed on these plans to be performed under contract shall, except as otherwise stated or provided for herein, be constructed in accordance with "Contract Documents for City-Wide Utilities and Curb Paving No. 10 and the Standard Specification."
3. Two working days prior to any excavation, contractor must contact Line Locating Service, 765-1274, for location of existing utilities.
4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should an conflict exist, the contractor shall notify the engineer of surveyor so that the conflict can be resolved with a minimum amount of delay.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

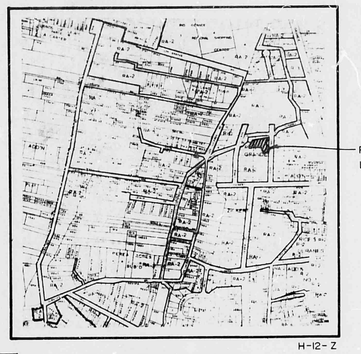
- ☐ All utilities and utility service lines shall be installed prior to paving.
- ☐ Backfill compaction shall be according to specified street use.
- ☐ Turn over requirements shall be determined by the City Engineer.
- ☐ Sidewalks and wheelchair ramps within the curb returns shall be constructed wherever a new curb return is constructed.
- ☐ If curb is depressed for a driveway, the driveway shall be constructed prior to acceptance of curb and gutter.
- ☑ All storm drainage facilities shall be completed prior to final acceptance.
- ☐ The requested or developer shall be responsible for repair or replacement of all curb and gutter or sidewalk damaged after approval by the City Engineer of work completed by the Contractor.



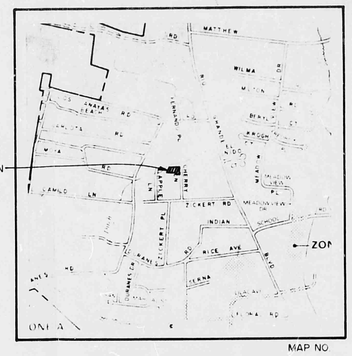
SECTION 1
SCALE: 1"=5'



TYPICAL SWALE DETAIL
SCALE: 1"=2'



VICINITY MAP
SCALE: 1" = 800'



FLOOD HAZARD MAP
SCALE: 1" = 1000'

LEGAL DESCRIPTION

LOT 30 & PORTIONS OF LOTS 16, 28 & 29 OF RIO GRANDE GARDENS ADDITION, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

SOILS

SCS SOIL GROUP-GILA CLAY LOAM (GE)
TYPE B SOIL CN-79

DRAINAGE PLAN

The following items concerning the Albuquerque Association for Retarded Citizens Drainage Plan are contained hereon:

1. Vicinity Map
2. Flood Hazard Map
3. Grading Plan
4. Calculations

The proposed building is located on the west side of Cherry Lane N.W. The building will be used as a home for retarded citizens with associated parking. The land is currently owned by the City of Albuquerque and is being leased to the Retarded Citizens for a minor consideration.

The project site is basically a flat site bordered on the north and west by a concrete irrigation ditch, on the south by a tank site of the City of Albuquerque and on the east by Cherry Lane. The general slope of the land is from north to south. The concrete ditch will prevent any flows from entering the site from either the north or the west. Cherry Lane is a cul-de-sac and essentially cuts off any flows that might come from the east. The project site is slightly higher than the land to the south; therefore, offsite flows are negligible. The project (1) does not lie in a flood plain, (2) does lie adjacent to an artificial water course and (3) has no drainage easements on the property.

The Grading Plan shows (1) existing contours at 1'-0" intervals, (2) proposed grades indicated by spot elevations and contours, (3) swales, (4) continuity between proposed and existing elevations, (5) that sidewalks will be constructed adjacent to the property line, (6) that runoff will be conveyed into the parking area and through a driveway cut to exit the site, (7) that retaining walls will not be required, (8) that erosion will not result from the proposed construction and (9) ponding will not be utilized, therefore fencing will not be required.

The Calculations indicate that if 30 percent of the site is left undeveloped or developed with grass, and that water that falls on that portion of the site is retained on the site, that additional ponding will not be required. Our calculations indicate that 51 percent of the water that falls on the site will fall onto and be retained by the grassed area at the rear of the building. This area has been shaped to create a shallow dish so that the waters will stay on the site and be allowed to percolate. This far in exceeds the criteria of 30 percent, therefore additional ponding will not be provided.

CALCULATIONS

Area of parcel = 29,473 sf
Pervious area = 12,000 sf = 41%
Impervious area = 17,473 sf = 59%

Composite 'C' cumber 79(.41) + 98(.59) = 90

from Plate 4 Farmington
CN 79/90 % ponding required = 30%

Impervious area + Roof area to rear yard = 14,900 sf = 51% therefore, rear yard area is sufficient to meet ponding requirements. Discharge all other runoff to street.

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO THOMAS T. MANN 3752 AND LAND SURVEYOR
8/13/81

Hydrology

JOB NO. 8-115

STATE OF NEW MEXICO W. L. BURNS NO. 774 R. L. PETERS NO. 788 ALBUQUERQUE N.M. REGISTERED ARCHITECT

Architect

Engineer

GROUP HOME FOR SEVERELY RETARDED ADULTS
ALBUQUERQUE ASSOCIATION FOR RETARDED CITIZENS

PROJECT 81-19

THE BURNS/PETERS GROUP
Architects & Planners
8000 Pennsylvania Circle NE
Albuquerque, New Mexico
87110 505 265 3645

Date 9/1/81

GRADING/DRAINAGE PLAN

C-2
Sheet No.