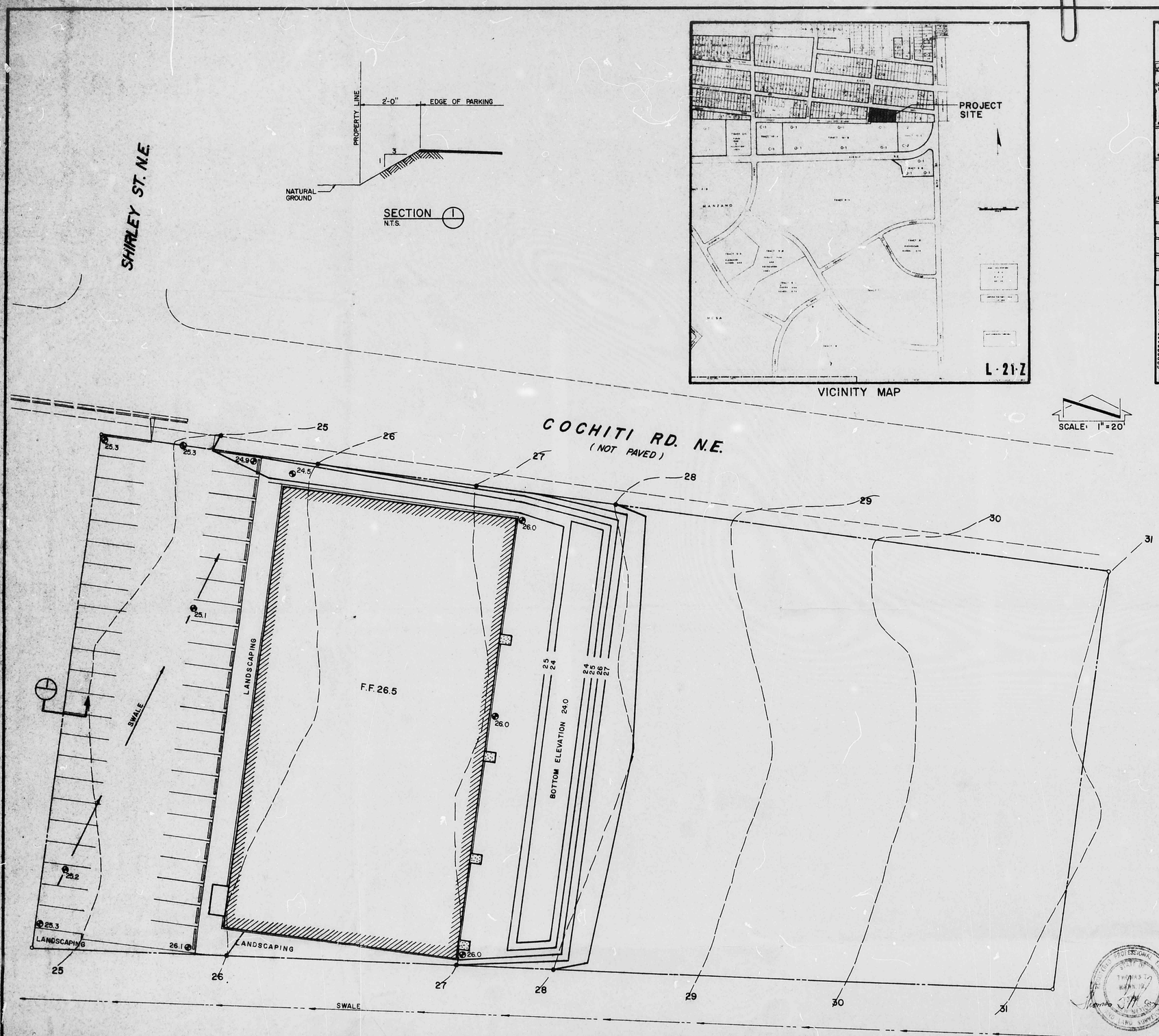
HYDROLOGY L21/D4 MASTER FRAME DRAINAGE PLAN

L21/D4

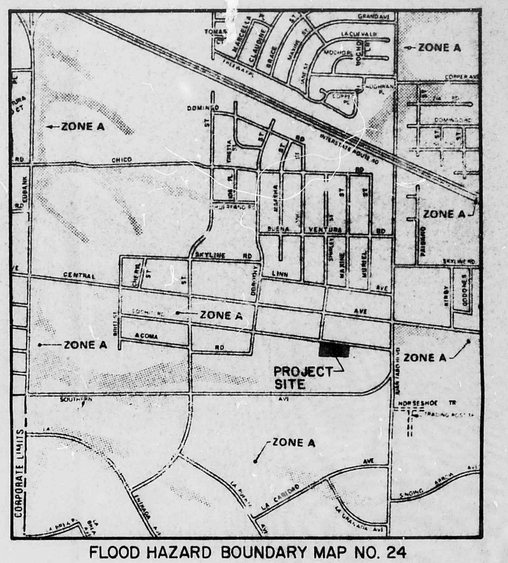
MASTER FRAME

DRAINAGE PLAN

1 PLAN



VICINITY MAP



FLOOD HAZARD BOUNDARY MAP NO. 24

SCALE: 1" = 20'

DRAINAGE PLAN 9-90

The following items concerning the Master Frame drainage plan are contained hereon.

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

The proposed building is located south of Cochiti Road, S.E. and east of Shirley Street, S.E. The building will be used as offices and warehouse space with associated parking for employees and customers of Master Frame.

The land surrounding the project site is currently undeveloped. The land slopes from east to west. The land to the east is higher than the project site. The lands to the north, west and south are parallel to or lower than the project site. Cochiti Road is unpaved. Off-site runoff could enter the site from the east. If it does, it will be conveyed through the drainage facilities proposed for this project. However, the off-site flows are considered small and do not present a problem. The project 1) does not lie in a flood plain, 2) does not lie adjacent to a natural or artificial water course, and 3) has no drainage easements on the property. Erosion will not result from upland runoff or from the proposed construction activities.

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 all runoff will be conveyed into a pond before leaving the site and 6) that retaining walls will not be required.

The runoff from the additional impervious areas will be retained in a pond located east of the proposed building. The pond will retain an excess of 100% of the runoff that results from a 100 year frequency storm. The pond is not greater than 18" deep and therefore, fencing is not required.

CALCULATIONS

Area of Parcel - 433 x 195 = 84,435 s.f..
Impervious Area - 34,030
Required Pond Volume - 34,030 x 0.1 = 3,403 c.f.
Pond Volume - Top of Pond Elevation = 25.3

$$\frac{14 \times 177 + 22 \times 185}{2} (1.3) = 4,256 \text{ c.f.}$$

Goldberg · Mann & Associates
Engineers-Planners
811 Pennsylvania N.E. Albuquerque, New Mexico 87110

NO.	DATE	BY	REVISIONS

DESIGNED BY: L.B.
DRAWN BY: B.L.G.
APPROVED: T.T.M.

JOB NO. 9-90
DATE 8/79

MASTER FRAME
OFFICE BUILDING

DRAINAGE AND GRADING PLAN

FILE NO.
SHEET 1 OF 1

L21/B4