HYDROLOGY M16/D1 ONE PLAN

M16/D1

1 PLAN

RECEIVED 2/1/77.

SUBJECT: Drainage for the Project "Warehouse Addition for National Distributors"

AUGUST F. MOSSMANN STATE OF NEW MEXICO NO. 6148 REGISTERED PROFESSIONAL ENGINEER

TO WHOM IT MAY CONCERN:

1. The site location of the subject project is the combined Lot No. 9 and No. 10 in Block Number One of the corrected and revised plat of Airport Industrial Park, filed in the Office of the County Clerk of Bernalillo County, New Mexico, on February 3, 1971.

2. The subject project provides for the construction of additional warehouse space and an improved parking and circulation apron for the complete site. The site as it presently exists is partially developed, Although consideration is given in the final site plan to the total site and properly handling all runoff, ponding requirements have been developed on the basis of added impervious area.

3. The site is not located in a flood plain area and there are no water courses adjacent to or intercepted by this property. The property to the east is the only elevated adjacent property and it is very gently sloped and undeveloped. Runoff from this property is not blocked in any respect although runoff in any but the most extreme conditions should be negligible.

4. The newly created impervious areas have been divided into two contributory areas, marked A and B. (See Attachment No. 2) (Area C has been excluded from requirements for additional

ponding on the basis of it being already impervious). Area A drains to a drainage tank and shallow ponding area in the front (the ponding would only be applicable for 100 year rains). Area B, including most of the parking and the addition, drain to a holding pond in the northwest corner of the property. Calculations detailing requirements and provisions for increased runoff are outlined below:

Contributory Area A

Area A = Approximately 3039 square feet

say 3100 square feet

Required runoff retention

= 3100 sq. ft. x .10 ft.

Required = 310 cu. ft.

Provisional Storage Area 1 Capacity

= 5 ft. x 9 ft. x 6 ft.

= 270 cu. ft.

Provisional Storage Area 2 Capacity

= Assumed area approximately 33 ft. x 10 ft. times an average depth of .1667 ft.

= 55 cu. ft.

Total Runoff Water Storage

= 270 cu. ft. + 55 cu. ft.

Provided = 325 cu. ft.

Contributory Area B

Area B = Approximately 14,408 square feet

say 14,500 square feet

Required Runoff Retention

= 14,500 sq. ft. x .10 ft.

Required = 1,450 cu. ft.

Provisional Storage Area #3 Capacity

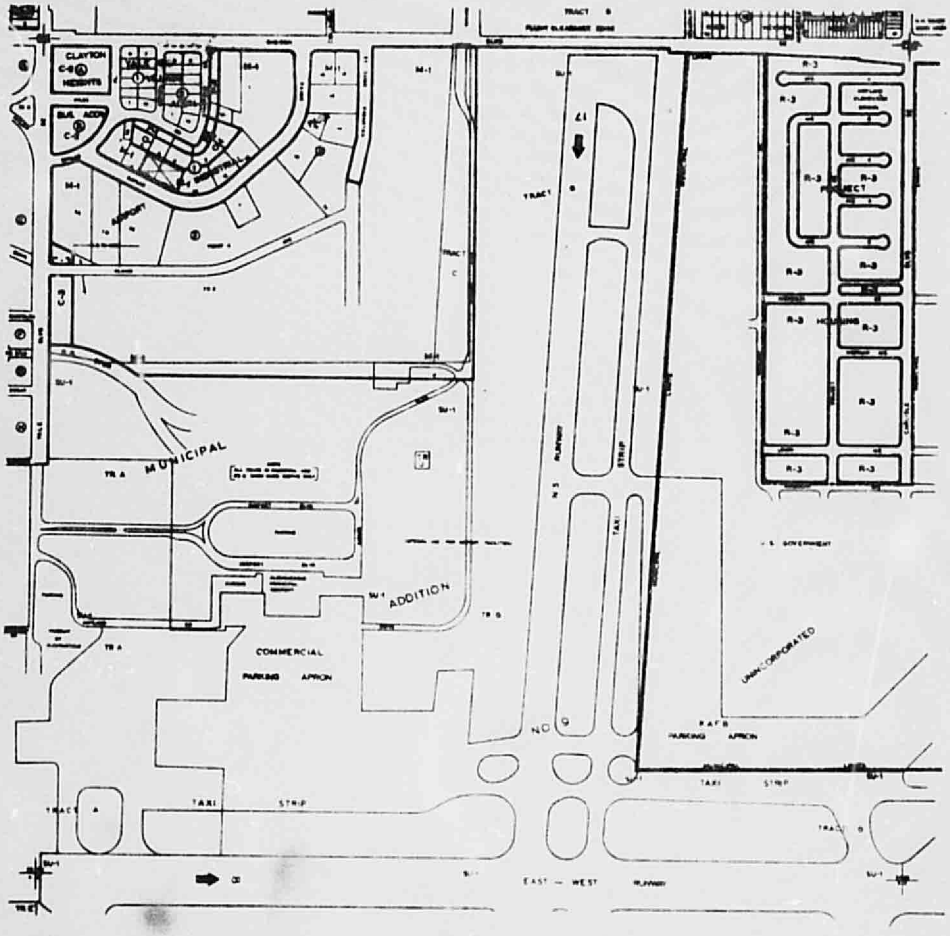
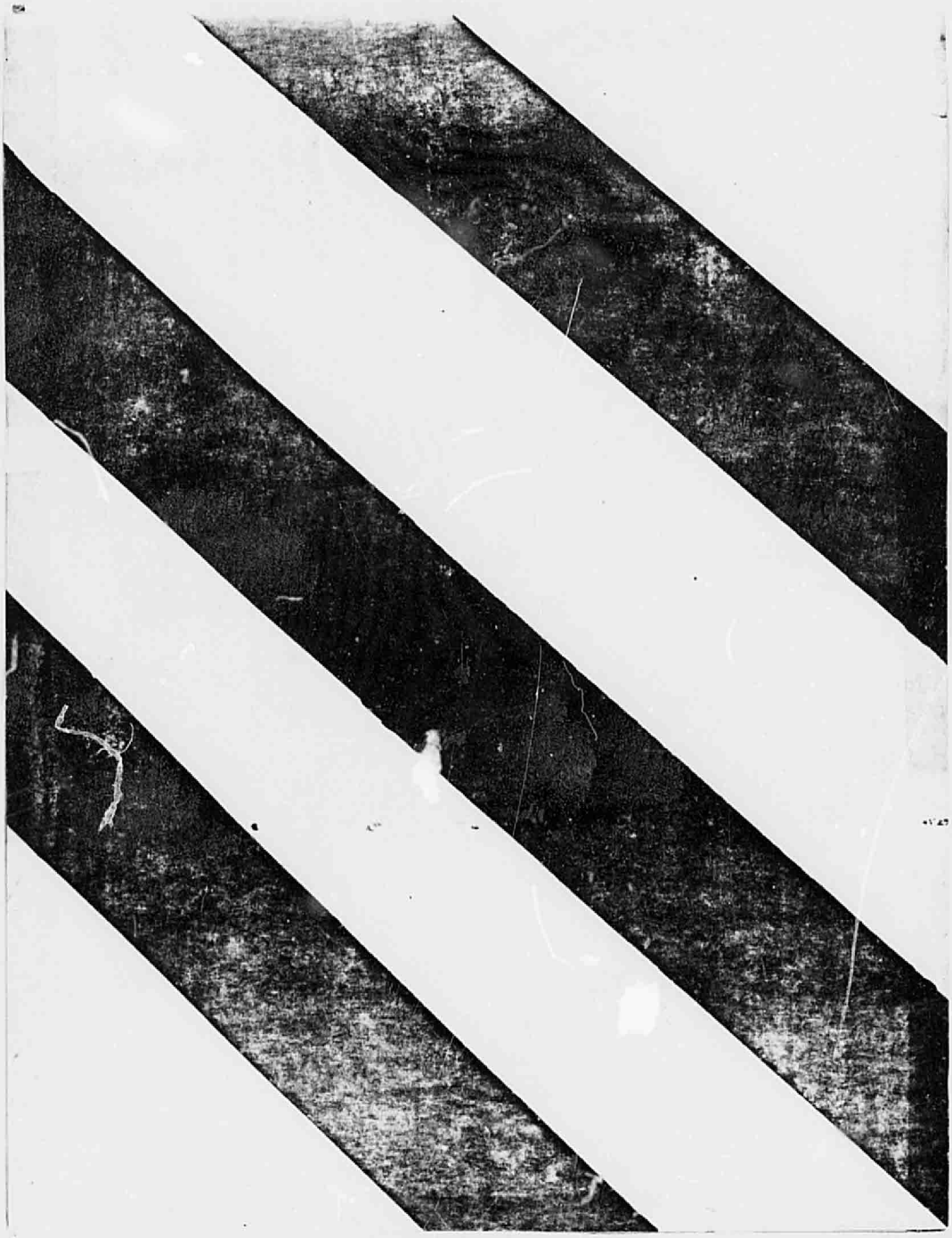
= Assumed area approximately 15 ft. x 65 ft. times an average depth of 1.5 ft.

Provided = 1462 cu. ft.

Respectfully submitted,

John Reed, Architect
AIA
dm

Attachments
1. Copy of Zoning Map M-16-2
2. Site Plan


TRACT A
CLAYTON
C-2
HEIGHTS
BUS. ADM.
C-2
M-1
M-4
M-1
M-1
C-2
M-1
M-1
M-1
TRACT C
TRACT B
R-3
R-3
R-3
R-3
PROJECT
R-3
R-3
R-3
HOUSING
R-3
R-3
R-3
R-3
R-3
MUNICIPAL
TR A
M-1
ADDITION
TR B
COMMERCIAL
PARKING APRON
TAXI STRIP
N-S RUNWAY
U.S. GOVERNMENT
UNINCORPORATED
R.A.F.B.
PARKING APRON
TAXI STRIP
TRACT A
TRACT B
EAST — WEST RUNWAY
M-16-Z