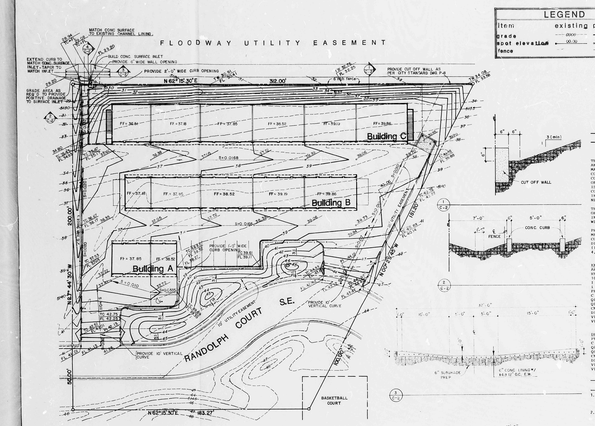
HYDROLOGY M15/D4a3 2 PLANS



GRADING AND DRAINAGE PLAN

SCALE 1:20

LEGEND		
Item	existing	proposed
grade	6000	5000
spot elevation	50.75	50.75
fence		

Zone Map M-15-Z

DRAINAGE PLAN

RE: N.Z. MINI WAREHOUSE

THE SITE IS LOCATED NORTH OF RANDOLPH COURT ADJACENT AND A FLOODWAY AND UTILITY EASEMENT CONTAINING LARGE CHANNEL CONTAINING ARTIFICIAL MARSH. A 4.432 ACRE OF TOTAL LOT AND 1.2812 ACRE WITHOUT RANDOLPH COURT. THE SITE IS BOUNDED BY RANDOLPH COURT ON THE SOUTH AND RANDOLPH COURT AND SLOPES FROM SOUTHEAST TO NORTHWEST WITH AN AVERAGE SLOPE OF 4 PERCENT. STORM RUNOFF FROM THE SITE FLOWS TO THE NORTH, EXCEPT FOR THE SOUTH 1/3 OF THE SITE WHICH FLOWS TO THE SOUTH INTO CONCRETE LINED CHANNEL, AND IS FROM 1 PARCEL WHICH WOULD NOT INCLUDE THE CONCRETE LINED CHANNEL AT THE NORTHWEST CORNER OF THE PARCEL WHICH FLOWS TO THE NORTH.

THE SITE HAS AN APPROVED PRELIM DRAINAGE PLAN FOR THE NEW COMMERCIAL OFFICE CENTER PREPARED BY ENNING, ALBERT & ASSOCIATES, INC. CONCULT. ENGINEERS, DATED JUNE 1981. THIS PROPOSED DRAINAGE PLAN COMPLIES WITH THE MASTER PLAN.

PROPOSED OFF-SITE RUNOFF WILL HAVE NO EFFECT ON THE PROPOSED DESIGN OF NEW COMMERCIAL OFFICE CENTER, MCCONNELL, THE: THE RUNOFF FROM THIS PARCEL WILL BE CONTROLLED BY THE DRAINAGE PLAN FOR THE NEW OFFICE CENTER. THE RUNOFF THROUGH A SITE IN CONCRETE LINED CHANNEL PARCEL (LOT 8, 9 & 10).

EXISTING ON-SITE CONDITION (NOT INCLUDING RANDOLPH COURT)
AREA: 1.2812 ACRES
RUNOFF COEFFICIENT: A
100 YEAR, 6 HOUR RAINFALL: 2.2 IN. PLATE 22.2 D-3
T_c: 2.5 HR./HR. PLATE 22.2 D-2
T_p: 1.0 HR./HR. PLATE 22.2 D-2
PEAKFACTOR UNMODIFIED: 484
Q_p: 4.34 PLATE 22.2 D-1
Q_p MODIFIED: 0.9 X 4.34 = 3.88 CFS
VOLUME: (0.88)(43.4)(3) = 8.54 CFS
IN 3 HR. PLATE 22.2 D-1
VOLUME: (0.88)(43.4)(3) PLATE 22.2 C-4
VOLUME: (36.1)(1.0)(43)(43)(12 / 24) CU. FT.
VOLUME: 139,518 (43.5) = 258 CU. FT.

DEVELOPED ON-SITE CONDITION (NOT INCLUDING RANDOLPH COURT)
PEAKFACTOR UNMODIFIED: 724
Q_p: 4.34 PLATE 22.2 D-1
Q_p MODIFIED: (0.1)(4.34) + (0.9)(4.34) = 3.78 CFS
VOLUME: (3.78)(0.9)(3) = 2.09 CFS
IN 3 HR. PLATE 22.2 D-1
RUNOFF VOLUME: 2.09 CFS PLATE 22.2 C-4
VOLUME: (36.8)(1.0)(43)(43)(12 / 24) = 1546 CU. FT.
VOLUME: (1546)(0.43) = 2061 CU. FT.

NOTICE TO CONTRACTOR

1. NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION WILL BE REFERENCED TO HEREIN AS "STANDARD SPECIFICATIONS".
2. ALL WORK DETAILED ON THESE PLANS IS TO PERFORMED, EXCEPT TO EXCEEDING CLASS OF PROVIDED DESIGN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH PUBLIC WORKS CONTRACT NO. 35.1.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 766-5234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND VERIFY ON DRAWINGS, THE VERTICAL LOCATION OF ALL UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY DEVIATION MUST BE MADE TO THE CONTRACT PLAN OR VERTICAL WITH A MINIMUM CHANGE IN DELAY.
5. CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL DURING THE CONSTRUCTION PERIOD.

NOTE:

1. THE EXISTING ELEVATIONS THAT ARE SHOWN FOR RANDOLPH COURT AND THE FLOODWAY UTILITY EASEMENT ARE TAKEN FROM THE PLAN AND PROFILE SURVEY INFORMATION ON THE ORIGINAL PLAN FOR N.Z. COMMERCIAL OFFICE CENTER, SHEET 1 of 1, BY ENNING, ALBERT, & STEWARTS (NOW ASSOCIATES) DATED 12-84.
2. FLOOD DIVERSION AND FLOODWAY ARE PARCEL NO. 35.

APPROVED FOR DRAINAGE
APPROVED FOR DRAINAGE INSPECTION
SUBJECT TO ATTACHED LETTER DATED
SIGNATURE DATE
WATER MANAGEMENT DIRECTOR

JUN 24 1985
DRAINAGE SECTION

THE BURNS-PETERS GROUP
ARCHITECTS PLANNERS
2000 Louisiana Blvd. N.E. Albuquerque, N.M. 87110 (505) 881-8001

NOTES

REVISIONS

ENGINEER

ARCHITECT

N.Z. MINI WAREHOUSE

PROJECT NO.

DATE

SHEET C-2 OF

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C D

C B A

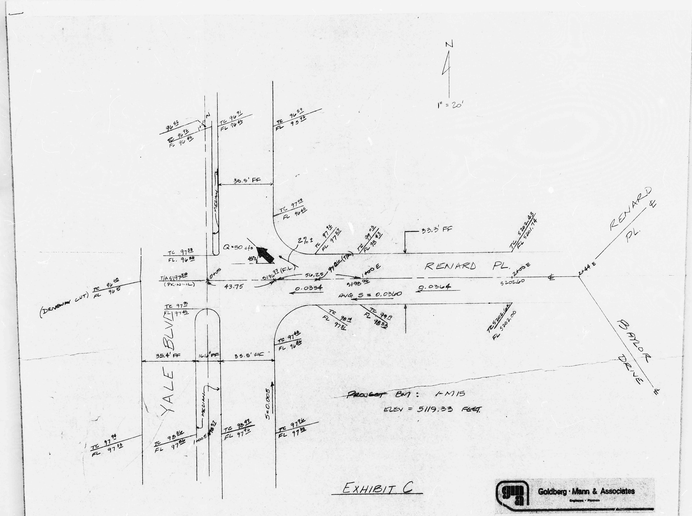

EXHIBIT C

Goldberg · Mann & Associates
Engineers · Surveyors

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