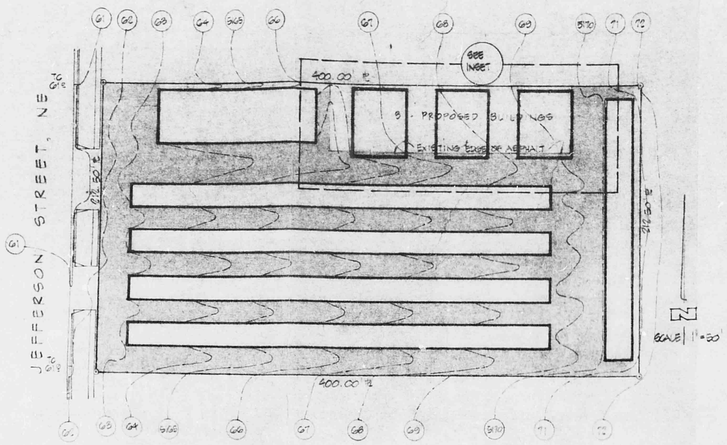
HYDROLOGY

F17/D56

TWO PLANS



GENERAL LAYOUT SCALE 1" = 50'
SHOWING AREA OF NEW CONSTRUCTION

B.M. ACS G-F-17 NW CURB RETURN MONTGOMERY & JEFFERSON ELEV. 5102.086

TOTAL AREA	89,000 FT²
SLOPE	2.5 %
LENGTH OF RUN	400
TIME OF CONCENTRATION	6.8 MINUTES
INTENSITY $\left(\frac{180}{6.8+25}\right)^{.78}$	6.0 IN/HR
100 YR., 6 HR PRECIPITATION	2.5 IN

EXISTING CONDITIONS

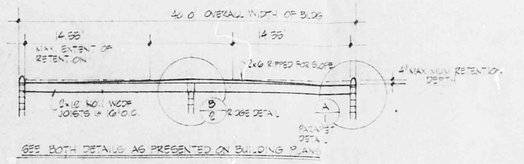
AREA BREAKDOWN		C100	RATE	VOLUME
BLDG ROOF	30818	1.00	4.75	6815
ASPHALT PAVEMENT	48682	1.00	6.000	9818
BARE CONTAMINATED SOIL	8000	.65	.806	1818
			11.20 CFS	17450 FT³

PROPOSED CONDITIONS

BLDG ROOF	30488	1.00	5.020	7590
ASPHALT PAVEMENT	48512	1.00	6.000	10118
			11.70 CFS	17708 FT³

RESULTS

6800 FT³ RETENTION CAPACITY DISCHARGING AT A RATE NOT EXCEEDING .806 CFS FROM BUILDING ROOFS

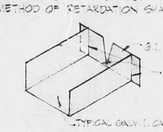


SEE BOTH DETAILS AS PRESENTED ON BUILDING PLAN

SECTION THRU BLDG. @ ROOF SCALE 1" = 1'0"

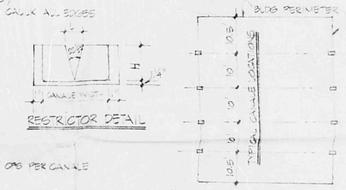
TOTAL MAXIMUM ROOF RETENTION CAPACITY =
14.58 x .58 x 148 (TOTAL LENGTH OF 3 BLDGS INSIDE END PARAPETS) = 7.8 FT³
ENGEBDS REQUIREMENT BY 80 FT³

TO ASSURE THAT POSITIVE DRAINAGE FROM THE ROOF AREAS DOES OCCUR - BUT AT A RATE NOT EXCEEDING THE .806 CFS FIGURE SET FORTH, THE FOLLOWING METHOD OF RETARDATION SHALL BE EMPLOYED:



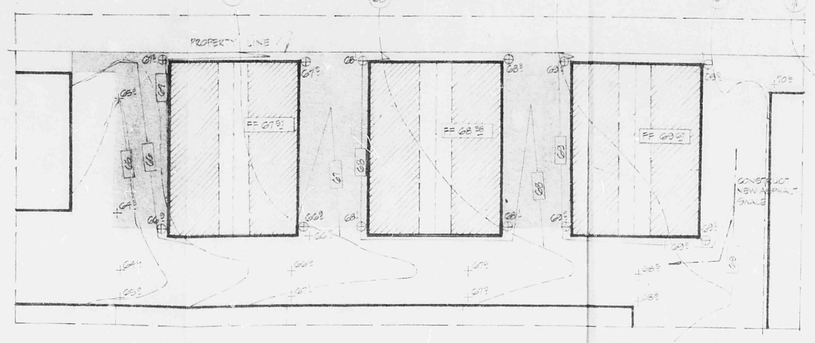
$L = C \tan \frac{22.5°}{2} H = 1\frac{3}{4}"$ APPROXIMATELY
$H = 4" = .58$

$Q = .60\ H^{2.5}$
$= .60\ (.58^{2.5}) = .60\ (.0826) = .0818$ CFS PER CANALE



RESTRICTOR DETAIL

$\therefore \frac{.806}{.0818} = 8.8$ CANALES AT MOST MAY BE USED — THIS PLAN CALLS FOR 24. RATE OF DISCHARGE = 1.96 CFS
THIS IS LESS THAN THE .806 CFS ALLOWABLE FROM ROOF



INSET SCALE 1" = 20'
SHOWING NEW CONSTRUCTION DETAILS

+68 EXISTING SPOT ELEVATIONS
⊕68 PROPOSED SPOT ELEVATIONS
(68) EXISTING CONTOURS
68 PROPOSED CONTOURS

MANNING EXTENT OF ROOF RETENTION

MIKE KNIGHT
884-6677

REVISED NOV. 6, 1978

ENGINEERING
1617 BANK BOULEVARD NE
ALBUQUERQUE, NEW MEXICO
505 - 8883

AUG 6 1979

DRAINAGE PLAN
NORTH VIN STORAGE BUILDINGS
1800 JEFFERSON STREET NE

F17/D56 (2)

THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT

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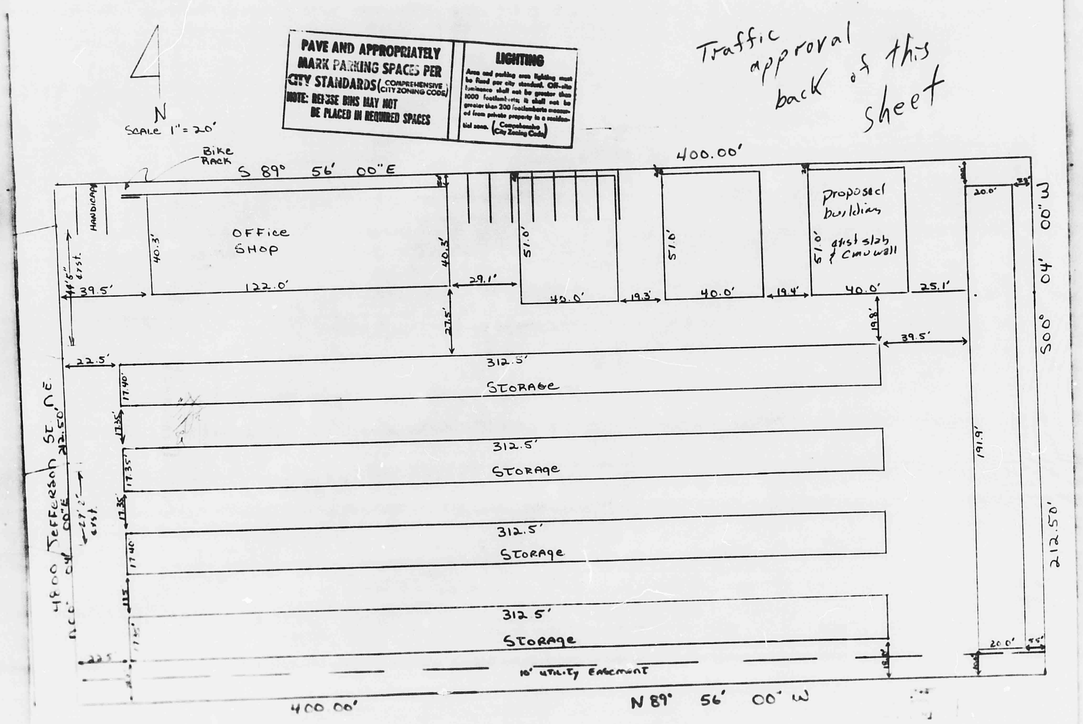
B A

PAVE AND APPROPRIATELY MARK PARKING SPACES PER CITY STANDARDS (COMPREHENSIVE CITY ZONING CODE)
NOTE: DUMPSTER BINS MAY NOT BE PLACED IN REQUIRED SPACES

LIGHTING
Area and parking area lighting must be fixed per city standard. Off-site luminance shall not be greater than 1000 footlamberts; it shall not be greater than 200 footlamberts measured from private property to a residential zone. (Comprehensive City Zoning Code)

Traffic approval back of this sheet



4800 Jefferson NE
Lawn equipment repairing (S)
CLASS OF WORK
SUBMITTED BY
9-1-83 DATE
FILED BY 8-3-84 DATE
REVIEWED BY
DATE
SUFFICIENT CLEARS GIVE RECEIVED BY

RB 77 Date 1-3-84 Op 33

CITY OF ALBUQUERQUE

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City Clerk/Recorder

OFFICIAL SEAL
DONALD J. DAVILA
City Commission Expires

C 20 B 16 A 12

CITY OF ALBUQUERQUE