HYDROLOGY

G20/D11
2 PLANS

G20/D11

2 Plans

DESIGN CRITERIA

SQ.FT.: 3500
ZONE: C-2
TYPE OF CONST.: V-N
OCCUPANCY: A-3
CONC. STRENGTH: 3000 PSI
WOOD (PONDEROSA PINE #1) (SINGLE USE)
F_b: 1200 PSI
E: 1,200,000 MIN.
OCCUPANT LOAD: 126 SEATS
KITCHEN: 8 (1614 S.F. ÷ 200 = 8)
TOTAL: 130

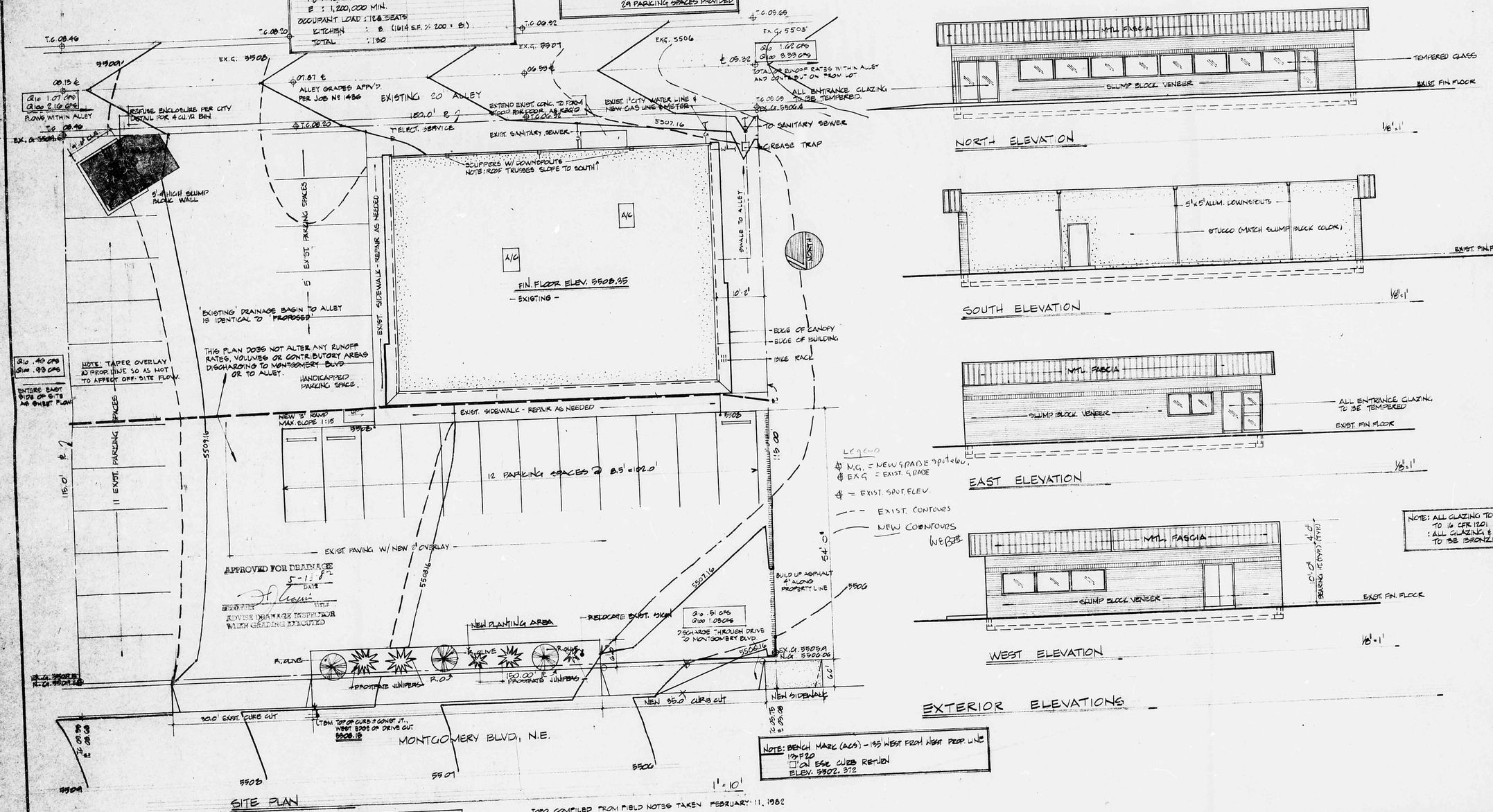
SEISMIC ZONE: II
ROOF LL: 20 PSF
WIND LOAD: 28 PSF
SOIL BRNG.: 2500 PSF

LEGAL DESCRIPTION

LOTS 4, 5 & 6, BLOCK 22
THOMAS ADDITION
9112 MONTGOMERY BLVD., NE
ALBUQUERQUE, N.M.

PARKING

126 SEATS @ 1 SP. / 4 SEATS = 32 SP.
- 3% FOR BUS LINE = 24 SP. REQ'D.
29 PARKING SPACES PROVIDED



SITE PLAN

SEE DRAINAGE STUDY SHEET FOR COMPILATION OF OFFSITE FLOWS.

TOPO COMPILED FROM FIELD NOTES TAKEN FEBRUARY 11, 1982 BY ENCHANTMENT ENGINEERING.

Legend
N.G. = NEW GRADE
EXG = EXIST. GRADE
= EXIST. SPOT ELEV.
EXIST. CONTOURS
NEW CONTOURS

NOTE: ALL GLAZING TO CONFORM TO 16 CFR 1201
: ALL GLAZING & STOREFRONT TO BE BRONZE TINT.

EXTERIOR ELEVATIONS

PRINTED MAY 18 1982

NO	DATE	REVISIONS TO DRAWINGS	NO	DATE	REVISIONS TO DRAWINGS
			1	FEB. 11, 1982	PARKING LAYOUT REVISED PER TRAFFIC. LANDSCAPING REVISED.
			2	MAR. 1, 1982	ADDED GRADES.
			3	MAR. 17, 1982	REVISED GRADES.
			4	APRIL 22, 1982	ALLEY GRADES ADDED

CIVIL | SURVEYOR | MECHANICAL | STRUCTURAL | ARCHITECT

STATE OF NEW MEXICO — WILLIAM E. BURK, III — No. 494 — ALBUQUERQUE, N.M. — REGISTERED ARCHITECT

11930 MENAUL, NE
BOX 11606 87112
(505) 292-6566

DATE FEB 12, 1982
DWG. BY MC.
CHECKED BY
APP. BY
OWNER'S APP.

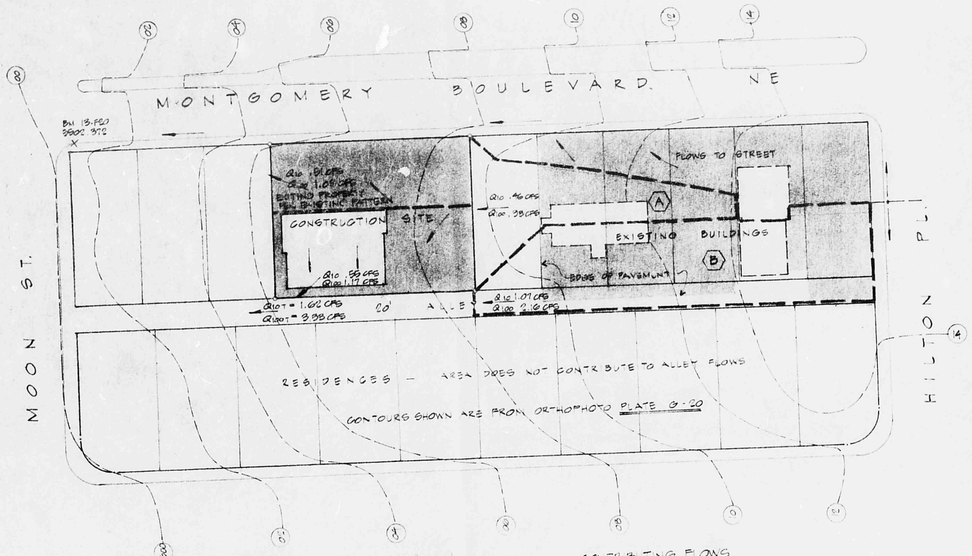
BURK & BURK-ARCHITECTS A.I.A.
ALBUQUERQUE, NEW MEXICO

SITE PLAN, ELEVATIONS, LEGAL DESCRIPTION & DESIGN CRITERIA

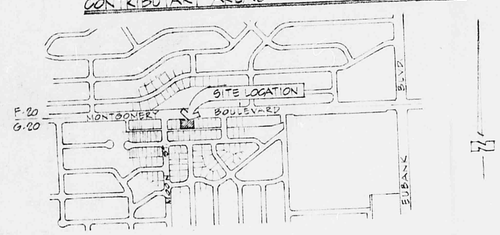
ANDY'S RESTAURANT ON MONTGOMERY BLVD. N.E.
ALBUQUERQUE, NEW MEXICO

JOB NO. 1741
SHT. NO. A-1
1 OF 8

George Achorody
296-0753



CONTRIBUTARY AREAS 1" = 50



VICINITY MAP Zone Atlas Page NO SCALE

CONTRIBUTING FLOWS

(A) FLOWS ONTO SITE .223 AC

.123 AC OPEN C = .50
.100 AC IMPERVIOUS 1.00

$C_{AVG} = \frac{(.123 \times .50) + (.100 \times 1.00)}{.223} = .77$

LENGTH OF RUN = 200 FT.
T_C = 10 MIN FROM NOMOGRAPH
$i_{10} = \frac{61}{10+25} = 2.68$ IN/HR
$i_{100} = \frac{183}{10+25} = 5.4$ IN/HR

$Q_{10} = .223 \times .77 \times 2.68 = .46$ CFS
$Q_{100} = .223 \times .77 \times 5.4 = .93$ CFS PEAK

ENTERS SITE AS SHEET FLOW

(B) FLOWS IN ALLEY .455 AC

.107 AC OPEN .50
.348 AC IMPERVIOUS 1.00

$C_{AVG} = \frac{(.107 \times .50) + (.348 \times 1.00)}{.455} = .88$

LENGTH OF RUN = 300 FT.
T_C = 10 MINUTES
i_{10} = 2.68 IN/HR
i_{100} = 5.4 IN/HR

$Q_{10} = .455 \times .88 \times 2.68 = 1.07$ CFS
$Q_{100} = .455 \times .88 \times 5.4 = 2.16$ CFS PEAK

ON-SITE FLOWS .203 AC

.003 AC OPEN .40
.200 AC IMPERVIOUS 1.00

AREA DISCHARGING TO ALLEY (.107 AC - 53% IMPERVIOUS)

$Q_{10} = .107 \times 1.0 \times 2.68 = .29$ CFS
$Q_{100} = .107 \times 1.0 \times 5.4 = 1.17$ CFS PEAK

AREA DISCHARGING TO MONTGOMERY BLVD .105 AC

.003 AC OPEN .40
.102 AC IMPERVIOUS 1.00

$C_{AVG} = \frac{(.003 \times .4) + (.102 \times 1.00)}{.105} = .98$

$Q_{10} = .105 \times .98 \times 2.68 = .31$ CFS
$Q_{100} = .105 \times .98 \times 5.4 = 1.08$ CFS PEAK

THIS PLAN WILL NOT AFFECT THE VOLUME RATE OR DISCHARGE POINTS OF ANY FLOWS EXITING THE SITE

DISAPPROVED FOR DRAINAGE
3-30-87
DATE
SIGNATURE TITLE

DRAINAGE STUDY

AREAS ADJACENT TO PROPOSED ANDY'S RESTAURANT
LOTS 4, 5 & 6
BLOCK - 22
THOMAS ADDITION

0112 MONTGOMERY BOULEVARD, NE

PREPARED FOR
BURK & BURK, ARCHITECTS

ENCHANTMENT ENGINEERING
0110 INDIAN SCHOOL ROAD NE
ALBUQUERQUE, NEW MEXICO
294-8850

MARCH 17, 1982