HYDROLOGY

D17/D31

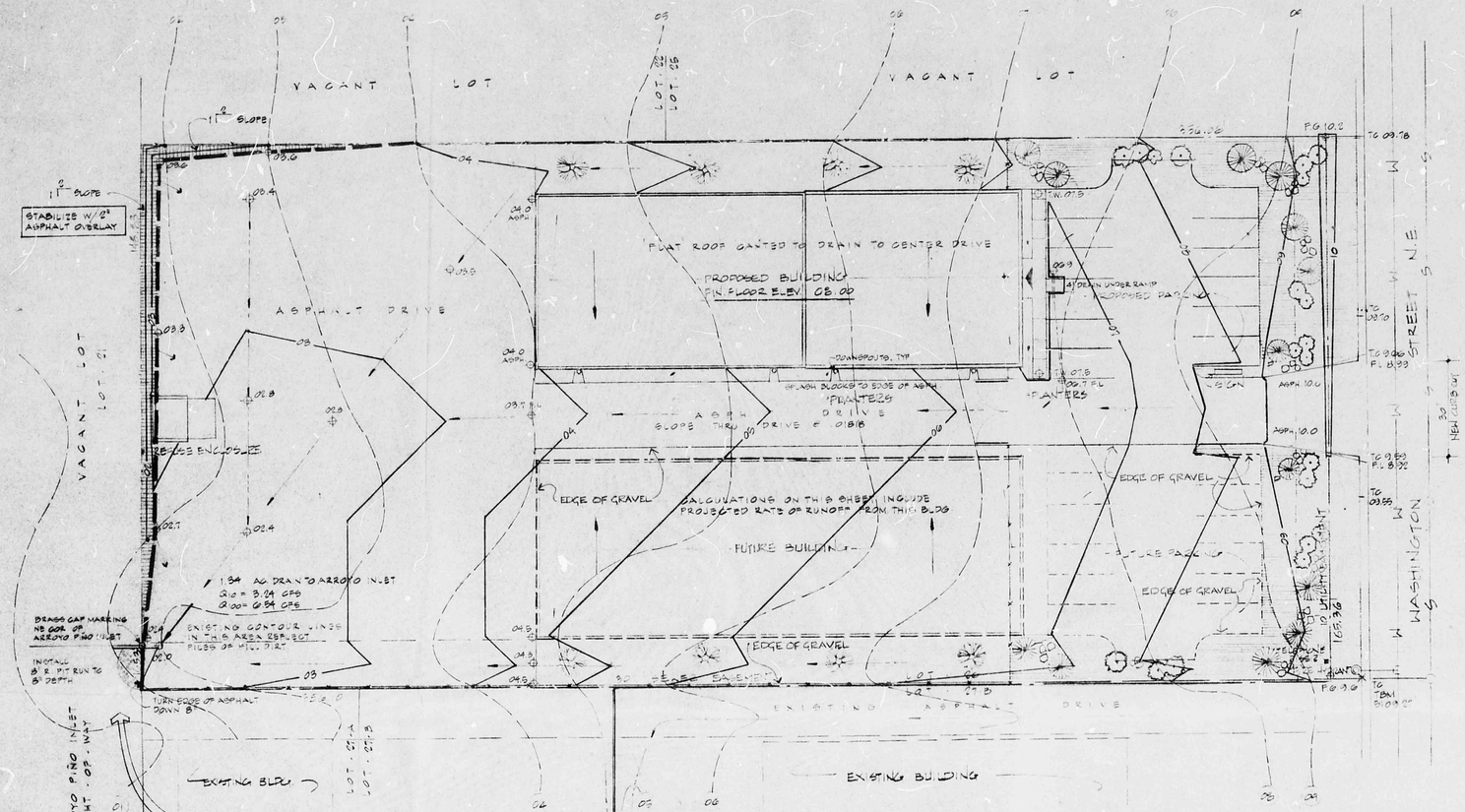
ONE PLAN

I PLAN FOR

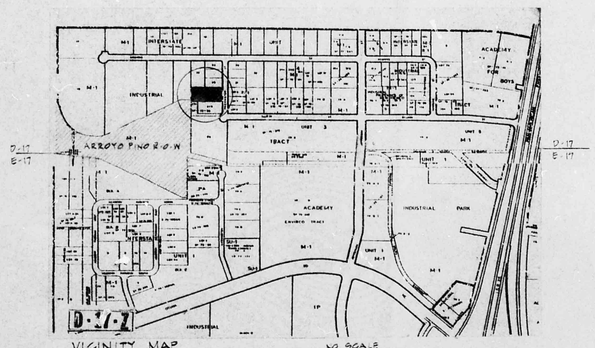
GAMBLIN ELECTRIC CO.

DRAINAGE PLAN

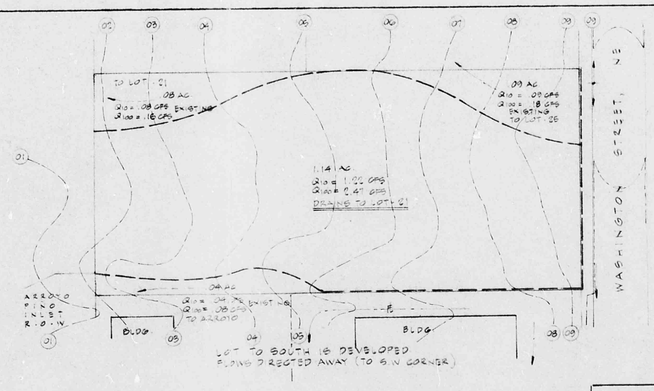
D 17 – D 31



PROPOSED SITE PLAN



VICINITY MAP NO SCALE
INCLUDES PORTION OF PLATE E-17



FLOW PATTERN SCALE 1" = 50'

REVISION : FEBRUARY 8, 1983

LANDSCAPING LEGEND

- RUSSIAN OLIVE 1½" ϕ
- PONDEROSA PINE 4" ϕ
- ELM 4" ϕ
- BANISH BROOM 5 GAL.
- GRASS

DRAINAGE PLAN

PREPARED BY
ENCHANTMENT ENGINEERING
9810 INDIAN SCHOOL ROAD, NE
ALBUQUERQUE, NM
294-8859

LEGAL DESCRIPTION

LOT 20, UNIT IV, INTERSTATE INDUSTRIAL TRACT ALBUQUERQUE, NEW MEX. CO

ADDRESS: 7181 WASHINGTON, N.E.

CALCULATIONS

AREA 1.85 AC.
SLOPE 2.0 % EAST TO WEST
TIME OF CONCENTRATION 19 MIN @ 850 RUN

$I_{10} = \frac{91}{13+24}$ = 2.40 IN/HR

$I_{100} = \frac{180}{13+25}$ = 4.87 IN/HR

EXISTING CONDITIONS

NO CONSTRUCTION ON SITE, LIGHT VEGETATION
RUNOFF COEFFICIENT .40

RUNOFF RATE - EXISTING

$Q_{10} = .40 \times 2.40 \times 1.85$ = 1.93 CFS
$Q_{100} = .40 \times 4.87 \times 1.85$ = 6.08 CFS PEAK

- SEE DISCHARGE POINTS ON FLOW PATTERN BELOW

RUNOFF RATE - PROPOSED

TOTAL DEVELOPMENT AREA 1.85 AC
IMPERVIOUS (C = 1.00) = 1.10 AC
OPEN (C = .40) = .75 AC

$Q_{10} = [(1.10 \times 1.0) + (.40 \times .75)] \times 2.08$ = 3.05 CFS
$Q_{100} = [(1.10 \times 1.0) + (.40 \times .75)] \times 5.4$ = 8.04 CFS PEAK

ADJUSTED TIME OF CONCENTRATION 10 MIN.
DISCHARGE POINT IS AT THE SOUTHWEST CORNER OF THE DEVELOPED AREA. FLOWS WILL BE DISCHARGED DIRECTLY INTO THE ARROYO RIGHT OF WAY JUSTBEFORE SITE ADJOINS RIGHT OF WAY EXCEPT NO ENTRANCE NORTHWEST CORNER OF SITE WHICH WILL STILL DISCHARGE TO LOT 21.

LEGEND

CONTOUR INTERVAL 1 FOOT
(04) EXISTING CONTOUR
04.0 PROPOSED CONTOUR
1000 EXISTING SPOT ELEVATION
1000 PROPOSED SPOT ELEVATION
PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED SURFACES.

BENCH MARK

10-D17 ALONG EAST R-W MONUMENT IN AN OPEN FIELD 0.05 MILE WEST OF I-25 ON PROJECTED LINE OF SAN ANTONIO DRIVE, NE
ADJ NAIL IN SOUTH SIDE OF PYLON #28 B

ELEV. 5109.380

TBM
TOP OF CURB @ SE CORNER OF SITE
ELEV. 5109.07

DESIGN CRITERIA

SQ. FOOTAGE - OFFICE AREA	: 3814.04
WAREHOUSE AREA	: 4156.62
TOTAL SQ. FOOTAGE	: 7970.66
OCCUPANCY	: B-2
TYPE OF CONSTRUCTION	: III
ZONE	: M-1
SEISMIC ZONE	: II
ROOF LL	: 20 PSF
WIND LOAD	: 29 PSF
SOIL BEARG	: 2000 PSI
CONC. STRENGTH	: 3000 PSI
OCCUPANT LOAD (OFFICE AREA)	: 29
OCCUPANT LOAD (WAREHOUSE AREA)	: 14

RECEIVED FEB 16 1983 ENGINEERING

NO	DATE	REVISIONS TO DRAWINGS	NO	DATE	REVISIONS TO DRAWINGS

CIVIL | ELECTRICAL | MECHANICAL | STRUCTURAL | ARCHITECT

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

DATE 9-24,1982
DWG. BY MEP
CHECKED BY
APP. BY
OWNER'S APP.

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

site plan

GAMBLIN ELECTRIC CO.

JOB NO. 1760
SHT. NO. P-1
1 OF 16

D17/D31