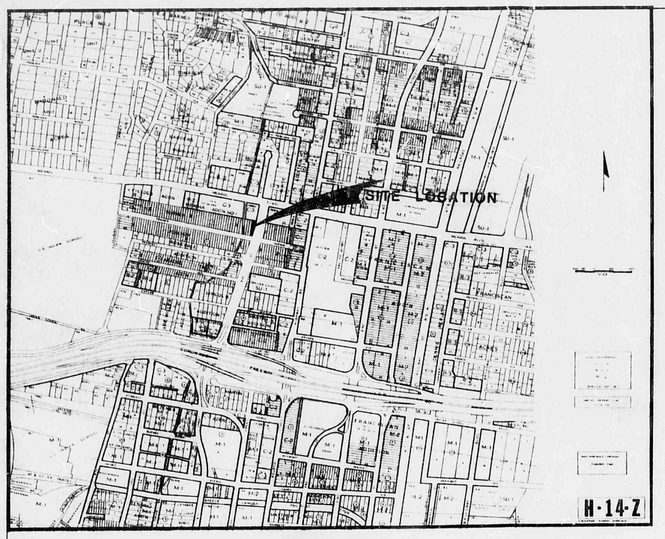
HYDROLOGY

H14/D13
1 PLAN

H14/D13

1 Plan

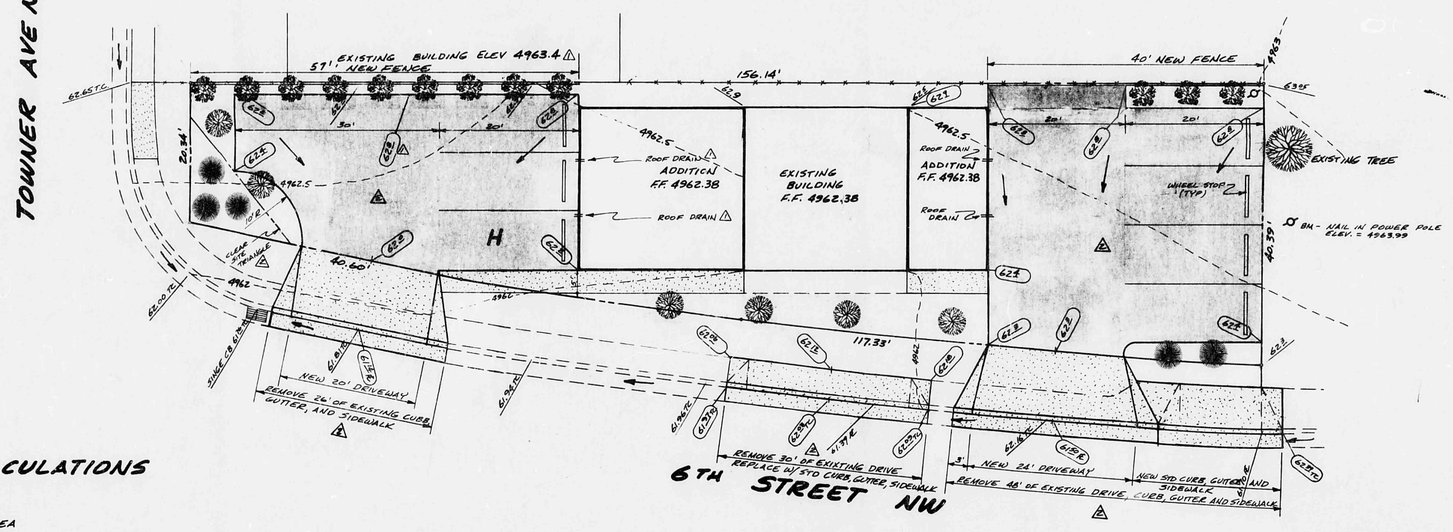


VICINITY MAP

LEGEND

- PROPOSED MANHOLE AND SEWER LINE
- EXISTING MANHOLE AND SEWER LINE
- PROPOSED WATER LINE
- EXISTING WATER LINE
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPOSED VALVE & BOX
- EXISTING VALVE & BOX
- PROPOSED BLOWOFF
- PROPOSED VACUUM RELIEF VALVE
- PROPOSED REDUCER
- EXISTING REDUCER
- DOUBLE WATER SERVICE
- SINGLE WATER SERVICE
- SANITARY SEWER SERVICE
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING POWER POLE
- EXISTING FENCE
- 85.2 PROPOSED POND AND BOTTOM ELEVATION
- 52.3 EXISTING ELEVATION
- 53.59 PROPOSED ELEVATION
- EVERGREEN TREE
- PYRACANTHA BUSH
- PFITZER JUNIPER

SCALE 1" = 10'
CONTOUR INTERVAL 0.5'



NOTES:

1) ZONED O-1
2) NO OFFSITE FLOWS
3) SITE NOT IN FLOOD PLAIN
4) NO RETAINING WALLS
5) NO ASPHALT CURBS

H-14-D13

DRAINAGE CALCULATIONS

TOTAL AREA = 5017 FT²

HISTORIC IMPERVIOUS AREA

BUILDING	576 FT²
CONC	77 FT²
TOTAL	653 FT²

HISTORIC PERVIOUS AREA = 5017 - 653 = 4364 FT²

COMPOSITE $C = \frac{(0.40)(4364)+(0.90)(653)}{5017} = 0.465$

HISTORIC $Q_{100} = (0.465)(5.4)\left(\frac{5017}{43560}\right) = \underline{0.289 \text{ CFS}}$

DEVELOPED IMPERVIOUS AREA

BUILDING	1596 FT²
PARKING	2680 FT²
TOTAL	4276 FT²

PERVIOUS AREA = 5017 - 4276 = 741 FT²

COMPOSITE $C = \frac{(0.40)(741)+(0.90)(4276)}{5017} = 0.826$

DEVELOPED $Q_{100} = (0.826)(5.4)\left(\frac{5017}{43560}\right) = \underline{0.514 \text{ CFS}}$

APPROVED: 5/26/82
BGB
CE/Hydro

AS BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY		
INSPECTOR'S ACCEPTANCE BY		DATE
VERIFICATION BY ENGINEERING		DATE
CORRECTED BY		DATE
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

BENCH MARKS

ACS BENCH MARK 4-H14 LOCATED AT THE INTERSECTION OF 4TH AND MENAUL NW IN THE SOUTHEAST QUADRANT OF THE INTERSECTION. A SQUARED, CHISELED ON TOP OF CONCRETE CURB AT THE SSE CURB RETURN. ELEV. = 4965.49

TBM. NAIL IN POWER POLE ELEV. = 4963.99

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

JAMES E. BLACKWELL NEW MEXICO 7145 REGISTERED PROFESSIONAL ENGINEER

5-26-82

NO.	DATE	REMARKS	BY
1	5-24-82	REVISION PER TRAFFIC COMMENTS	TJW
2	5-18-82	REVISION PER HYDROLOGY COMMENTS	TJW

REVISIONS

DESIGNED BY T. WITEK	DATE MAY, 1982	
DRAWN BY T. WITEK	DATE MAY, 1982	
CHECKED BY L. BLACKWELL	DATE MAY, 1982	

ACADEMY ENGINEERING INC.
5353 WYO BLVD. NE SUITE 3
ALBQ. NM 87109 (505) 821-8008

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: **DRAINAGE PLAN**
PORTIONS OF LOTS 23, 24 BLOCK 2 TOWNER ADDITION

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic	[illegible]	5/26/82
A.C.E.-Hydrology			Water		

DRAWING NO.	MAP NO.	SHEET	OF
	4-14	1	1