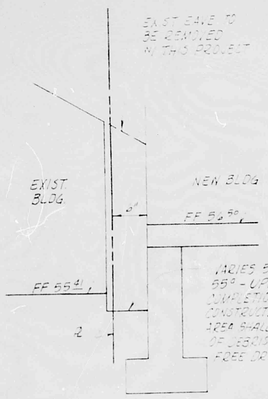
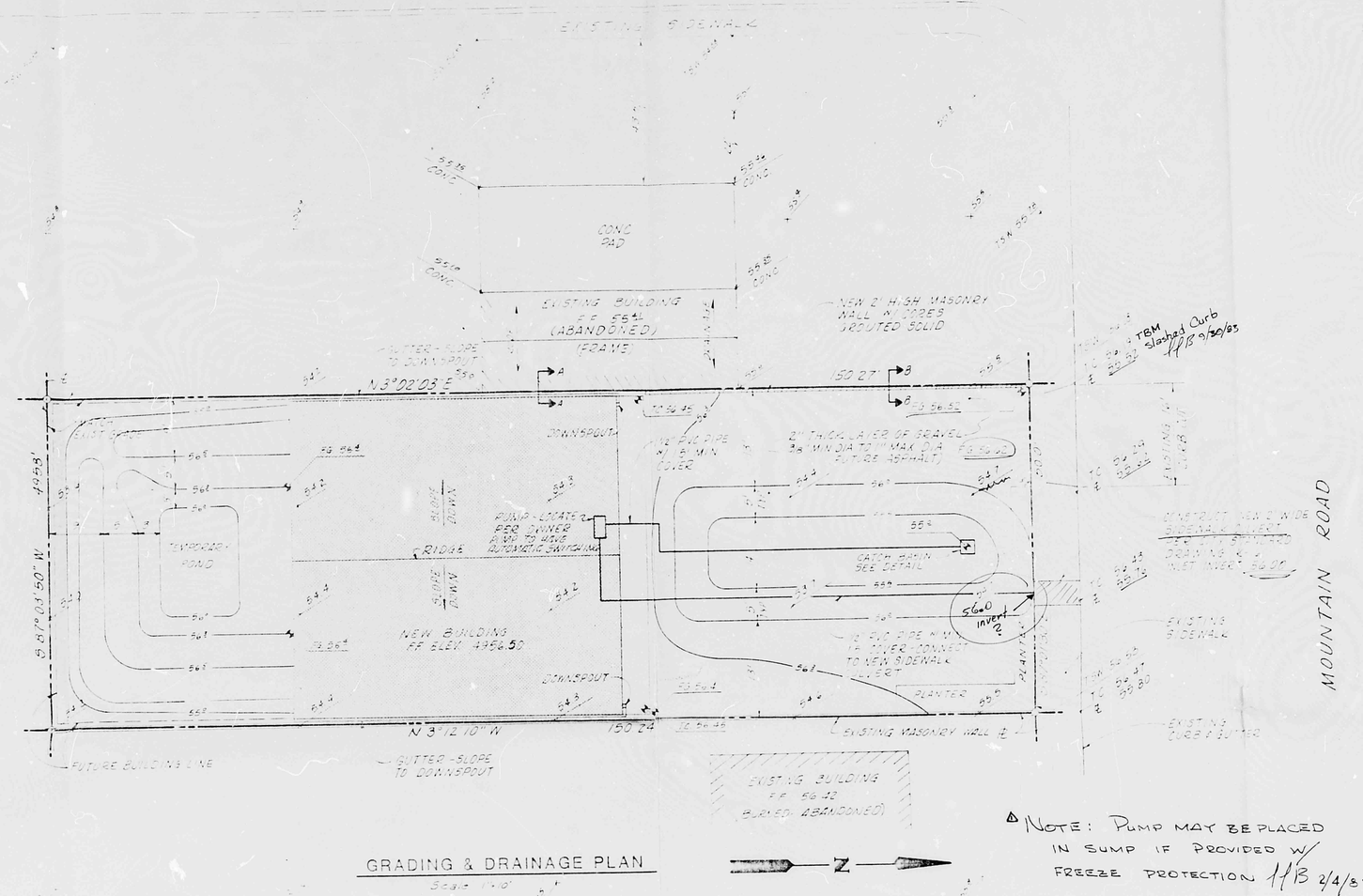
CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT



SECTION A-A

SECTION B-B

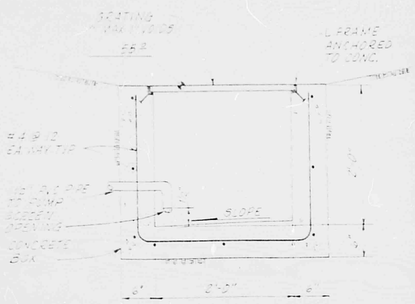


GRADING & DRAINAGE PLAN

Scale 1"=10'

Z

△ NOTE: PUMP MAY BE PLACED IN SUMP IF PROVIDED W/ FREEZE PROTECTION 11/13 2/4/85



CATCH BASIN DETAIL

SCALE 1"=10'

LEGEND

- EXISTING SPOT ELEVATION
- NEW SPOT ELEVATION
- FLOW LINE
- TOP OF CURB OR CONCRETE
- FINISHED SURFACE
- TOP OF SIDEWALK

VICINITY MAP
Zone Atlas Map No. J-14

DRAINAGE CALCULATIONS

USE: 100 year, 6 hour storm
RAINFALL: 2.2 inches
Composite C to Pond:

Asphalt (future)	21,956 sq.ft.	0.95	20,858
Concrete	147 sq.ft.	1.0	147
Earth (planter)	193 sq.ft.	0.35	68
Roof (present)	21,956 sq.ft.	0.95	20,858
Roof (future)	1,641 sq.ft.	0.95	1,559
			43,630

Composite C = 43,630/23,753 = 1.84
Max. Runoff = 2.2 inches x 1.84 = 4.048 in.
Vol. Attenuate Onsite = 4.048 in.

Pond Volume:

1	4956.50	0	
2	4957.0	1,000	500
3	4958.0	2,500	1,750
4	4959.0	4,000	3,250
5	4959.5	4,500	2,125
6	4960.0	5,000	2,375
Total Volume =			10,000

Minimum Pump Capacity:
4,048/24(3600) = 0.0046 cfs
= 2.1 GPM

Maximum Pump Capacity:
3.5 cfs
224 GPM

Minimum Drain Capacity:
Q = CA√2gH
Q = 0.6(A)√2gH
Q = 0.6(1.0)√2g(1.5)
Q = 3.6 cfs
Q = 1.6 cfs

Minimum Pipe