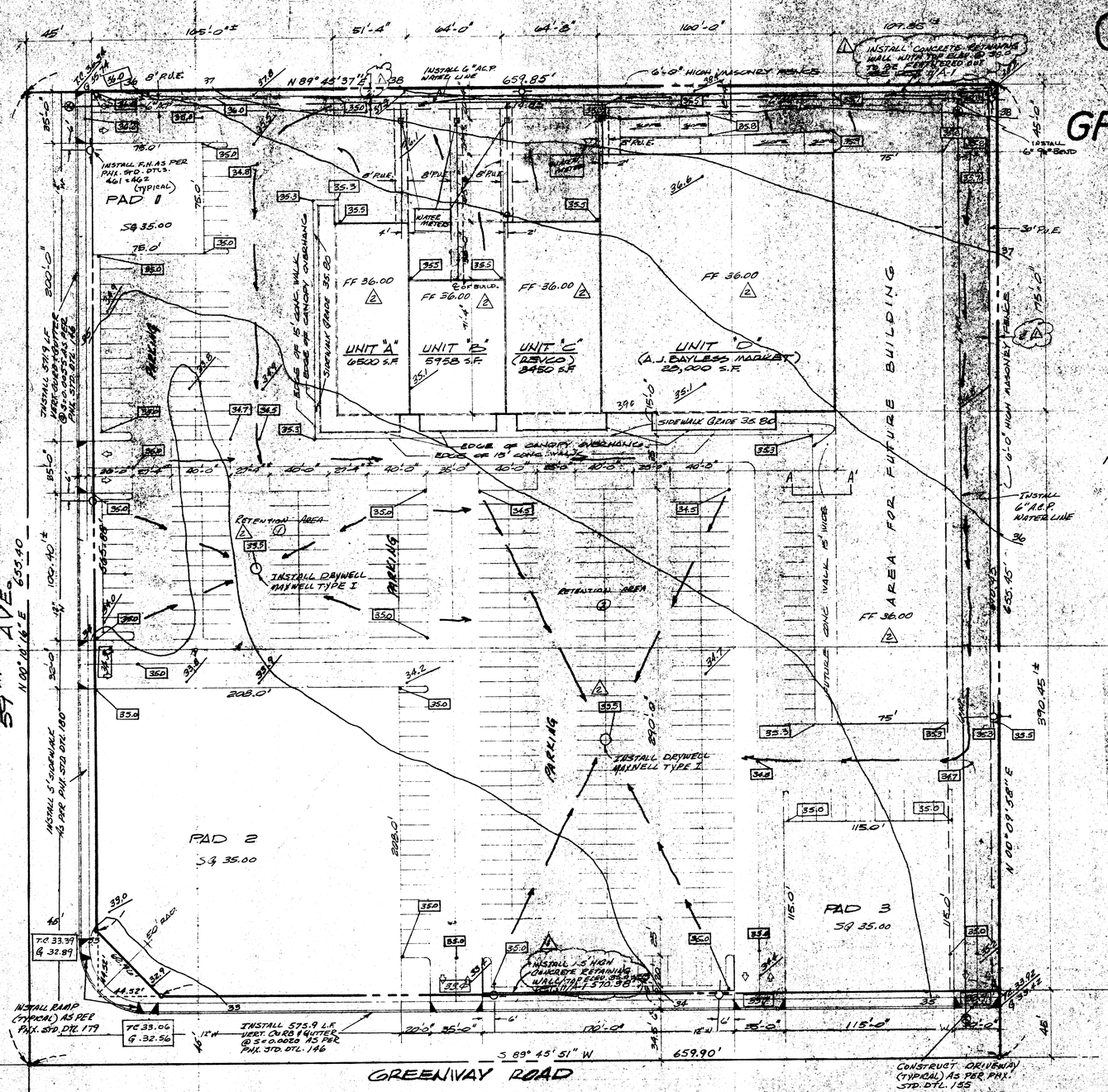
GREENWAY PLAZA

GRADING & DRAINAGE PLAN



CALCULATIONS

RETENTION REQUIRED - (City of Phoenix 100/12 2 HR. STORM)

$Q = CIA$ $\quad Q_R = (0.90)(0.80)(8.59)$

$Q_R = 6.18$ cfs

$V_R = 6.18$ cfs $\times 7200 = 44,500$ cf

RETENTION REQUIRED - (City of Mesa) 100 YR. 24 HR. STORM

$V_1 = 50,$ SF $\times$ 0.5 ft

$V_2 = 8.59(43,560) \times 0.90$ ft

$V = 84,200$ cf

RETENTION AVAILABLE -

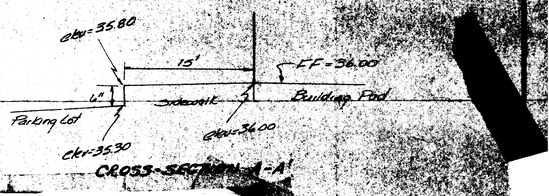
AREA ① $= 225' \times 100' \times \frac{1.5}{3}' = 11,250$ cf

AREA ② $= 280' \times 375' \times \frac{1.5}{3}' = 52,500$ cf

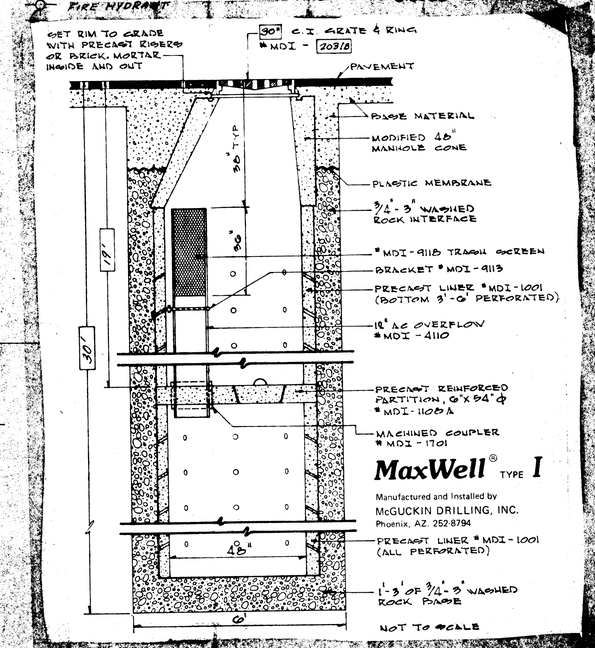
TOTAL $= \underline{63,750 \text{ cf}}$

- LEGEND -

- FF — FINISH FLOOR GRADE
- FG — FINISH GRADE
- [6.00] — PAVEMENT GRADE
- 6.00 — EXISTING GRADE
- T.C. — TOP OF CURB GRADE
- GUTTER GRADE
- PROPERTY CORNER
- FIRE HYDRANT



CROSS-SECTION A-A'



ENGINEERING & SURVEYING OF ARIZONA

404 E. 1ST AVE. MESA, ARIZONA JOB NO. 790606

1/10/80 REV. TO REDUCE [illegible] JOB NO. 8007D

11/9/79 REV. PER CITY COMMENTS

SHEET 2 OF 3 SHEETS

DWG. 55060 2/5