HYDROLOGY

G12/D8a
1 PLAN

G12/D8A

1 Plan

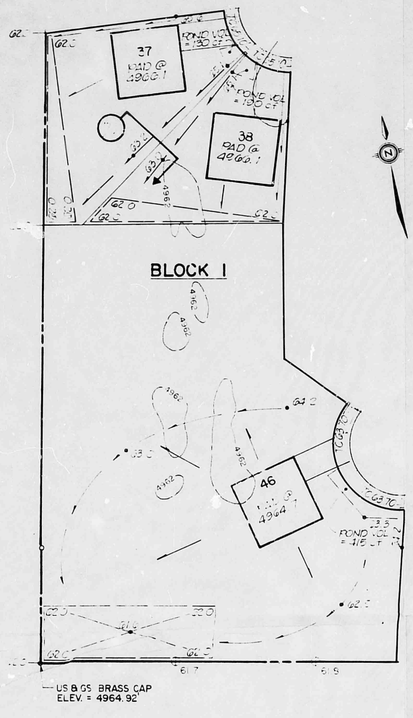


FIGURE NO. 1
SCALE: 1" = 50'

ORIGINAL DRAINAGE/GRADING PLAN
FOR SUBJECT LOTS

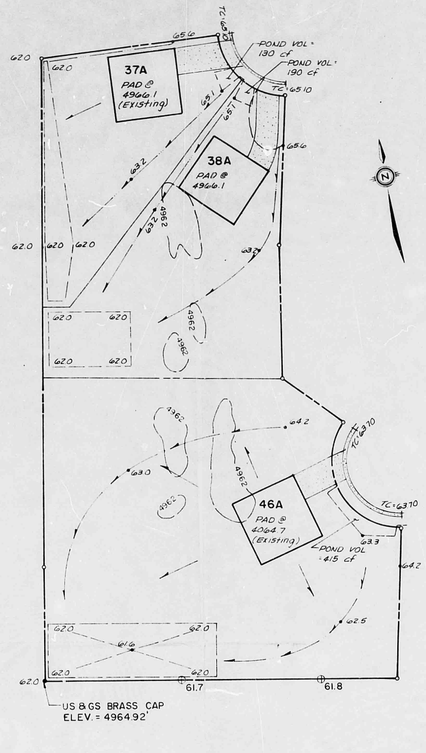
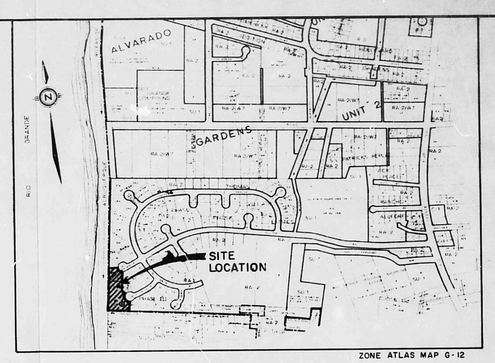


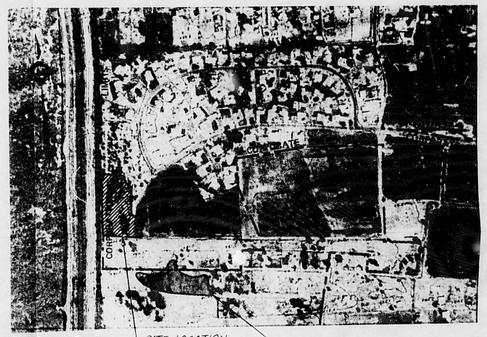
FIGURE NO. 2
SCALE: 1" = 50'

REVISED DRAINAGE/GRADING PLAN
FOR SUBJECT LOTS



ZONE ATLAS MAP G-12

VICINITY MAP
SCALE: 1" = 800' (approx.)



From Federal Emergency Management Agency Floodway Map, (Community Panel No. 350002 0022, Panel 22 Of 50.

OFFSITE DRAINAGE
SCALE: 1" = 500' (approx.)

FIGURE NUMBER 1 HAS BEEN REPRODUCED FROM THE THOMAS VILLAGE ESTATES PHASE III GRADING PLAN (CITY PROJECT NO. 1226, DRAINAGE FILE NO. G18-D8, SHEET 4 OF 10) PREPARED BY TOM MANN ASSOCIATES, INC. AND APPROVED BY THE CITY HYDROLOGY DEPARTMENT IN JULY, 1981.

COMPUTATIONS AND ANALYSIS

I. BY OBSERVATION FRONT YARD PONDS ARE TO RECEIVE THE SAME QUANTITY OF RUNOFF AFTER REPLAT AS BEFORE REPLAT. THEREFORE, THE POND VOLUMES SPECIFIED IN THE ORIGINAL DRAINAGE/GRADING PLAN ARE ADEQUATE FOR REPLATTED LOTS.

II. SIZE REARYARD PONDS TO RETAIN THE 100-YEAR, 6-HOUR STORM VOLUME:

A. FROM THE NOAA ATLAS 2 "PRECIPITATION - FREQUENCY ATLAS OF THE WESTERN UNITED STATES (VOLUME IV - NEW MEXICO)"; 100-YEAR, 6-HOUR RAINFALL = 2.2 INCHES.

B. LOT 46A IS SMALLER THAN LOT 46. THEREFORE, EXISTING POND IN LOT 46A IS MORE THAN ADEQUATE.

C. RESIZE REARYARD PONDS FOR LOTS 37A AND 38A.

1. LOT 37A:
AREA = .4112 AC. = 17,912 $FT.^2$
REQUIRED POND VOLUME = 17,912 $FT.^2$ X 2.2 IN. X 1FT./12IN. = 3,284 $FT.^3$

2. LOT 38A:
AREA = .5729 AC. = 24,956 $FT.^2$
REQUIRED POND VOLUME = 24,956 $FT.^2$ X 2.2 IN. X 1 FT./12 IN. = 4,575 $FT.^3$

D. PONDS TO BE CONSTRUCTED TO DIMENSIONS SHOWN IN FIG. NO. 2 AND PER SECTION 1 OF ORIGINAL DRAINAGE/GRADING PLAN (CITY PROJECT NO. 1226, DRAINAGE FILE NO. G18-D8, SHEET 4 OF 10).

III. SIDEYARD SWALES ARE TO BE CONSTRUCTED TO THE ELEVATION SHOWN ABOVE AND PER SECTION 3 OF AFOREMENTIONED ORIGINAL DRAINAGE/GRADING PLAN.

UPDATE OF DRAINAGE/GRADING PLAN
FOR REPLAT OF LOTS 37, 38 & 46, BLOCK I
THOMAS VILLAGE ESTATES PHASE III
TO LOTS 37A, 38A & 46A

RECEIVED
OCT 29 1985
HYDROLOGY SECTION

Kent M. Whitman
10/29/85
ENGINEERS SEAL

DATE	OCTOBER, 1985
SCALE	AS NOTED
DESIGNED	M.J.Y.
DRAWN	C.S.S.
JOB NO.	9323-01-036