HYDROLOGY

F14/D6

CO-CON

F14-D6

1 PLAN

CITY NO. Z-75-118

DRAINAGE STUDY

TRACTS 81-G, 81-H, 81-J, 81-K, 81-L, 81-M,
AND
TRACT 82-B-2 MAP 32

MIDDLE RIO GRANDE CONSERVANCY DISTRICT

DECEMBER 10, 1975

APPROVED FOR DRAINAGE

23 Dec 75
DATE

K W Lewis ACE Hyd
SIGNATURE TITLE

CONTINGENCIES _____

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A. E. Schumacher
A. E. SCHUMACHER
P.E. & L.S. NO. 2360

Ralph K. Hicks
RALPH K. HICKS
L.S. NO. 3307

SCOPE:

THE PURPOSE OF THIS DRAINAGE STUDY IS TO ALLOW THE ESTABLISHMENT OF C-3 ZONING (FROM R-1) FOR THE AFOREMENTIONED TRACTS WHICH WERE APPROVED FOR C-3 ZONING AT THE ENVIRONMENTAL PLANNING COMMISSION'S MEETING DATED NOVEMBER 20, 1975, AS AGENDA ITEM Z-75-118. ONE OF THE CONDITIONS OF APPROVAL OF THE ZONE CHANGE WAS THAT THE CLIENT FURNISH A DRAINAGE PLAN SATISFACTORY TO THE CITY ENGINEER AND A.M.A.F.C.A.

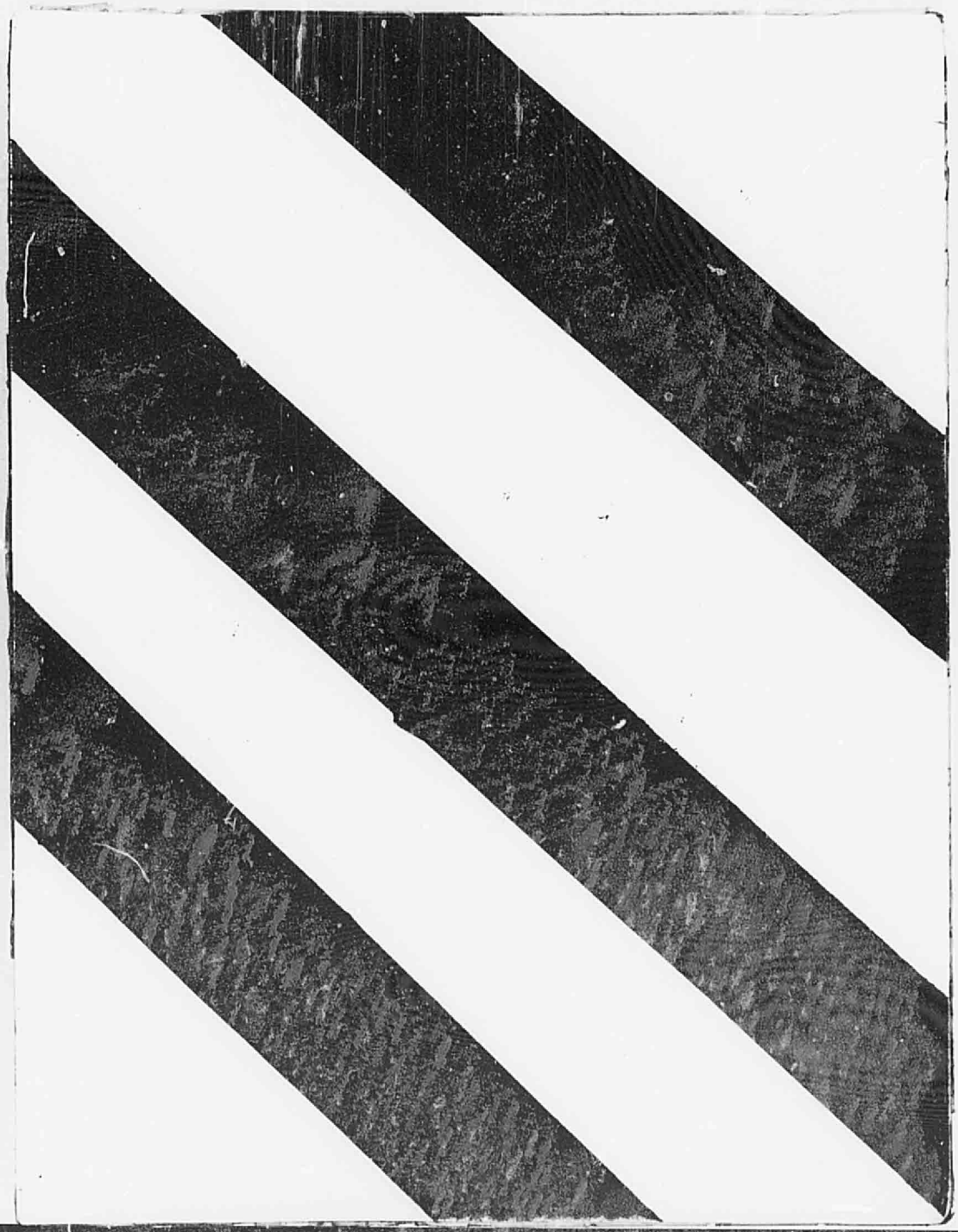
GENERAL:

THE SUBJECT TRACT CONTAINS 2.892 ACRES IN THE VICINITY OF MONTANO ROAD, N.W. AND FIFTH STREET, N.W. DIFFERENTIAL LEVELS WERE USED TO DETERMINE VARIOUS CURB GRADE ELEVATIONS IN THE VICINITY, PARTICULARLY ON MONTANO ROAD, N.W. AND FIFTH STREET, N.W., WHICH LIES NORTH OF AND EAST OF THE SUBJECT TRACT. EXISTING DROP INLETS AND STORM SEWERS EXIST IN MONTANO ROAD, N.W. AND ARE SHOWN AND DELINEATED ON PLATE ONE ATTACHED HEREWITH. PLATE ONE SHOWS (BY ARROW) THE SURFACE DRAINAGE AND EXISTING SWALES, EXISTING TODAY, AND HOW THEY DRAIN TO SAID STORM SEWERS.

CONCLUSION AND RECOMMENDATIONS:

IF THE READER WILL EXAMINE PLATE ONE, THE SUBJECT TRACT IS DELINEATED IN YELLOW PEN. THE RED PEN INDICATED BLOCK WALLS TO BE CONSTRUCTED 8 FEET HIGH WITH 8 INCH MASONRY UNITS ALONG THE EASTERN, NORTHERN, AND SOUTHERN BOUNDARIES, TOGETHER WITH A CHAIN LINK FENCE ALONG THE WEST BOUNDARY OF SUBJECT TRACT ADJACENT TO THE HARWOOD LATERAL.

THE WRITER HAS USED A HUNDRED YEAR RETURN FREQUENCY STORM OF 3 INCHES, A SIX HOUR DURATION ALLOWING NO PERCOLATION OR RUNOFF, BECAUSE OF THE WALLS TO BE CONSTRUCTED AND THE BERM ON THE HARWOOD LATERAL TO THE WEST. WE COMPUTE THAT A STORAGE AREA FOR SUBJECT TRACT WOULD BE .7232 ACRE FEET OF WATER. THIS COMPUTES TO BE 31,500 CUBIC FEET OF AREA AND THIS IS SHOWN ON PLATE ONE AS THE PONDING AREA TO BE CONSTRUCTED 250 X 130 FEET SQUARE AS SHOWN IN PURPLE ON SAID PLATE ONE.

WE HEREBY CERTIFY THAT IF THE ABOVE RECOMMENDATIONS ARE COMPLIED WITH, NO ADVERSE FLOODING WILL OCCUR TO THE SUBJECT TRACT OR SURROUNDING LANDS, AS SUBJECT TRACT IS TO BE USED FOR STORAGE OF CONSTRUCTION MATERIALS.

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