

## City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 13, 1995

Ken Hightower Ultima Custom Homes 3736 Eubank Suite B-1 Albuquerque, NM 87111

DRAINAGE COMPLIANCE @ 1721 VALDEZ NE (J23-D19)

Dear Mr. Hightower:

Based on the field inspection conducted on March 10, 1995, changes to the drainage concept as discussed and constructed are acceptable.

The changes discussed with you in our field meeting on February 28. 1995 are listed below:

- Guttering the rear porch canals toward the southwest corner of the house and exiting down towards the street, thus eliminating the need for the ponding area on the top terrace.
- Digging the inside corner of the cinder block wall where it meets the retaining wall and installing an impervious membrane to eliminate the possibility of undermining.
- Installation of the small retaining wall at the far 3. northwest corner of the property.

If some unforseen reason the undermining still occurs, other precautions may need to be implemented.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya, CE Engineering Associate

BJM/dl

Andrew Garcia Leroy Chavez File



# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

June 30, 1992

W. Reed Edgel Rodriguez & Associates 12800 San Juan Road, NE Albuquerque, New Mexico 87123

RE: DRAINAGE PLAN FOR A RESIDENCE @ 1721 VALDEZ, NE (J-23/D19) REBONITO SUBDIVISION, BLOCK 2, LOT 4 ENGINEER'S STAMP DATED JUNE 18, 1992

Dear Mr. Edgel:

Based on the information provided on your submittal of June 18, 1992, the above referenced plan is approved for Building Permit.

Please attach a copy of this plan to the construction sets prior to sign-off by Hydrology.

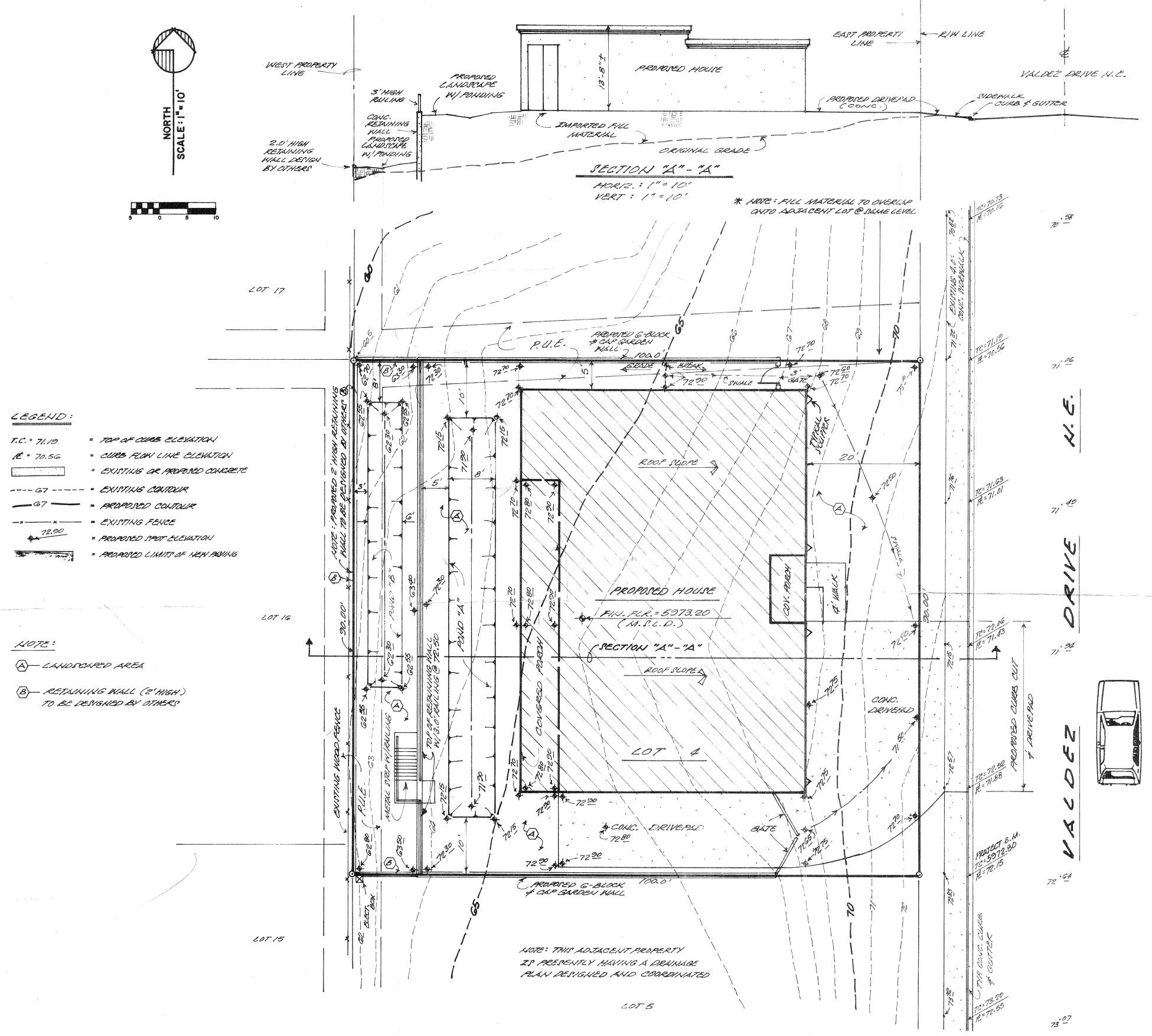
If I can be of further assistance, please feel free to call me at 768-2650.

Cordially,

Ennie J. Montoya, C.E. Engineering Assistant

xc: Alan Martinez

BJM/bsj (WP+3444)



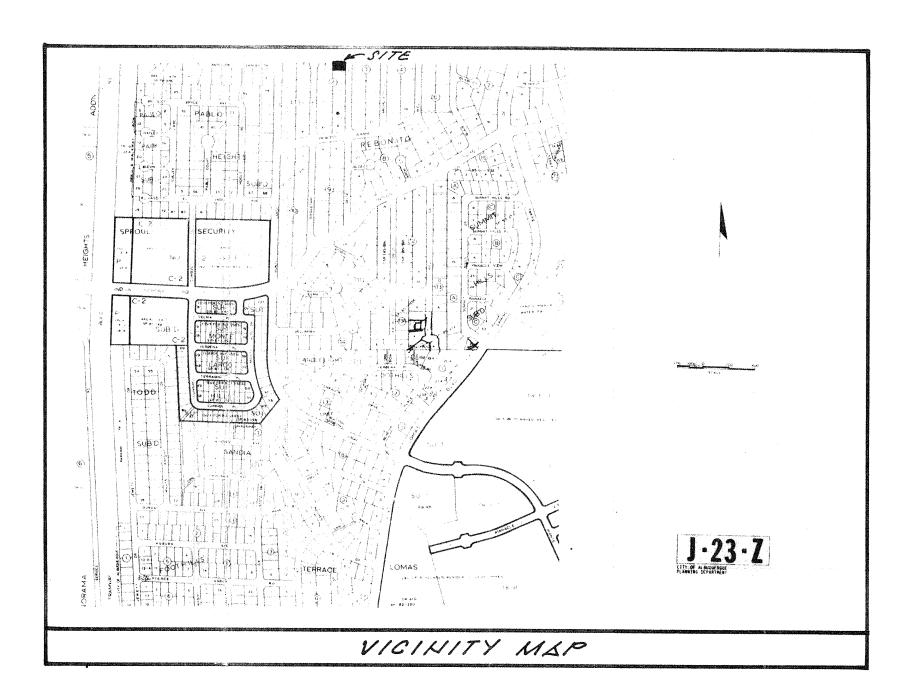
## NOTICE TO CONTRACTOR:

- 1.) AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- 2.) ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH "CONTRACT DOCUMENTS FOR CITY WIDE UTILITIES AND CASH PAVING NO. 31".
- 3.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE (260-1990), FOR LOCATION OF EXISTING OF SURFACE AND SUBSURFACE UTILITIES.
- 4.) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS; SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR THE PROJECT.

NOTE: TOPOGRAPHY SURVEY OF THE SUBJECT PROPERTY AS SHOWN HEREON
WAS OBTAINED FROM SURVEY MAP PREPARED BY GEORGE MARQUEZ, JR.,
DATED: JANUARY 27, 1992; NO FIELD ELEVATIONS WERE OBTAINED
BY THE PROVIDER OF THIS DRAINAGE PLAN.

## GENERAL NOTES:

- 1.) NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.
- 2.) NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT SITE OTHER THAN THOSE SHOWN ON THE PLAT OF RECORD.
- 3.) REFER TO "ARCHITECTURAL SITE PLAN" FOR FIELD LAYOUT OF THE PROPOSED



#### DRAINAGE COMMENTS:

AS SHOWN ON THE VICINITY MAP HEREON, THE SUBJECT PROPERTY IS LOCATED ON VALUEZ DRIVE N.E. APPROXIMATELY TWO (2) BLOCKS NORTH OF INDIAN SCHOOL ROAD N.E., IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO; BASED ON A SITE INVESTIGATION AND A TOPOGRAPHY FIELD SURVEY OF THE SUBJECT SITE, IT HAS BEEN DETERMINED THAT THE DEVELOPED RUNOFF OF THE PROPOSED IMPROVEMENTS ARE TO BE DIRECTED EASTERLY TOWARDS AND INTO VALUEZ DRIVE N.E. (A PUBLIC STREET); THE REMAINING RUNOFF OF THE EXISTING NORTHERLY, SOUTHERLY, AND WESTERLY AREAS THAT ARE TO BE LANDSCAPED ARE TO BE DIRECTED TOWARDS AND INTO A PROPOSED RETENTION POND(S) (POND AREAS "A" AND "B") WHICH ARE SHOWN ON THE PLAN HEREON. ALL DEVELOPED RUNOFF IS TO BE DIVERTED TOWARDS AND INTO VALUEZ DRIVE N.E. VIA ROOF SCUPPERS OR DOWNSPOUTS AND DRAINAGE SWALES AS SHOWN HEREON.

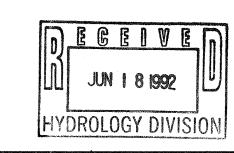
#### DRAINAGE CALCULATIONS:

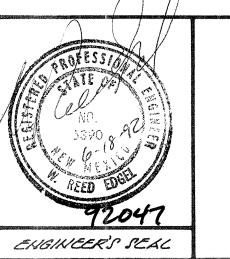
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RATIONAL METHOD: 0,00 = CIA
 6 HR .= TOO YR. RAINFALL = 2.55 IN.
 T = TEN (10) MINUTES MINIMUM
 "I" = (2.55)(6.84)(10)^{-0.51} = 5.39 IN.
 DEVELOPED CONDITIONS:
TOTAL AREA (90' X 100')
                              = 9,000.0 \text{ SQ. FT.} = 0.21 \text{ AC.}
HARD SURFACE (ASPHALT/CONC.) = 1,352.0 SQ. FT. = 0.03 AC.
BUILDING ROOF AREA
                                = 3,620.0 \text{ SQ. FT.} = 0.08 \text{ AC.}
LANDSCAPE AREA (RUNOFF TO ST.)= 1,195.0 SQ. FT. = 0.03 AC.
LANDSCAPE AREA(S) TO POND = 2,833.0 SQ. FT. = 0.065 AC.
RUNOFF TO STREET: ( 6,167.0 SQ. FT. = 0.14 AC.)
HARD SURFACE (ASPHALT/CONC.) = 0.03 AC. = 21\% X (C=0.95) = 0.20
BUILDING ROOF AREA
                                = 0.08 \text{ AC.} = 58\% \text{ X } (C=0.90) = 0.52
                                = 0.03 \text{ AC.} = 21\% \text{ X } (C=0.25) = 0.05
 LANDSCAPED AREA
                                                 "C" FACTOR = 0.77
Q_{100} = CIA = 0.77 \times 5.39 \times 0.14 = 0.58 CFS (DEVELOPED RUNOFF TO STREET)
POND CALCULATIONS:
TOTAL AREA TO POND = 2,833.0 SQ. FT. = 0.065 AC.
POND AREA "A" = 1,753.0 \text{ SQ. FT.} = 0.04 \text{ AC.}
POND AREA "B" = 1,080.0 SQ. FT. = 0.02 AC.
"A" V_{100} = 0.25 \text{ X} (2.55/12) \text{ X} 1,753.0 = 93.1 CU. FT.}
"B" V_{100} = 0.25 \text{ X} (2.55/12) \text{ X} 1,080.0 = 57.4 CU. FT.}
                       TOTAL PONDING = 150.5 CU. FT. REQUIRED
POND SIZE "A" = 0.25' X 8.0' X 70.0' = 140.0 CU. FT.
POND SIZE "B" = 0 25 X 6.0' X 50.0' = 75.0 CU. FT.
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## LEGAL DESCRIPTION:

LOT FOUR (4), BLOCK TWO (2), REBONITO SUBDIVISION, ALBUQUERQUE, BERNALILLO COUNTY, NEW MOXICO.

BENCH MARK REFERENCE: ACS BRASS CAP STATION "16-J23", M.S.L.D. ELEVATION
= 5933.885, LOCATED AT THE SOUTHEAST CORNER OF
MONTE LARGO DRIVE N.E. AND PRINCESS JEANNE AVE. N.E.;
PROJECT B.M. AS SHOWN ON PLAN HEREON.





DRAINIAGE PLAN

FOR HOUSE LOCATED AT

1721 VALDEZ DRIVE N.E.

ALBUQUERQUE, NEW MEXICO

JUNE, 1992

PROVIDED TOTAL = 215.0 CU. FT. > 150.5 CU. FT.