HYDROLOGY

G14/D32

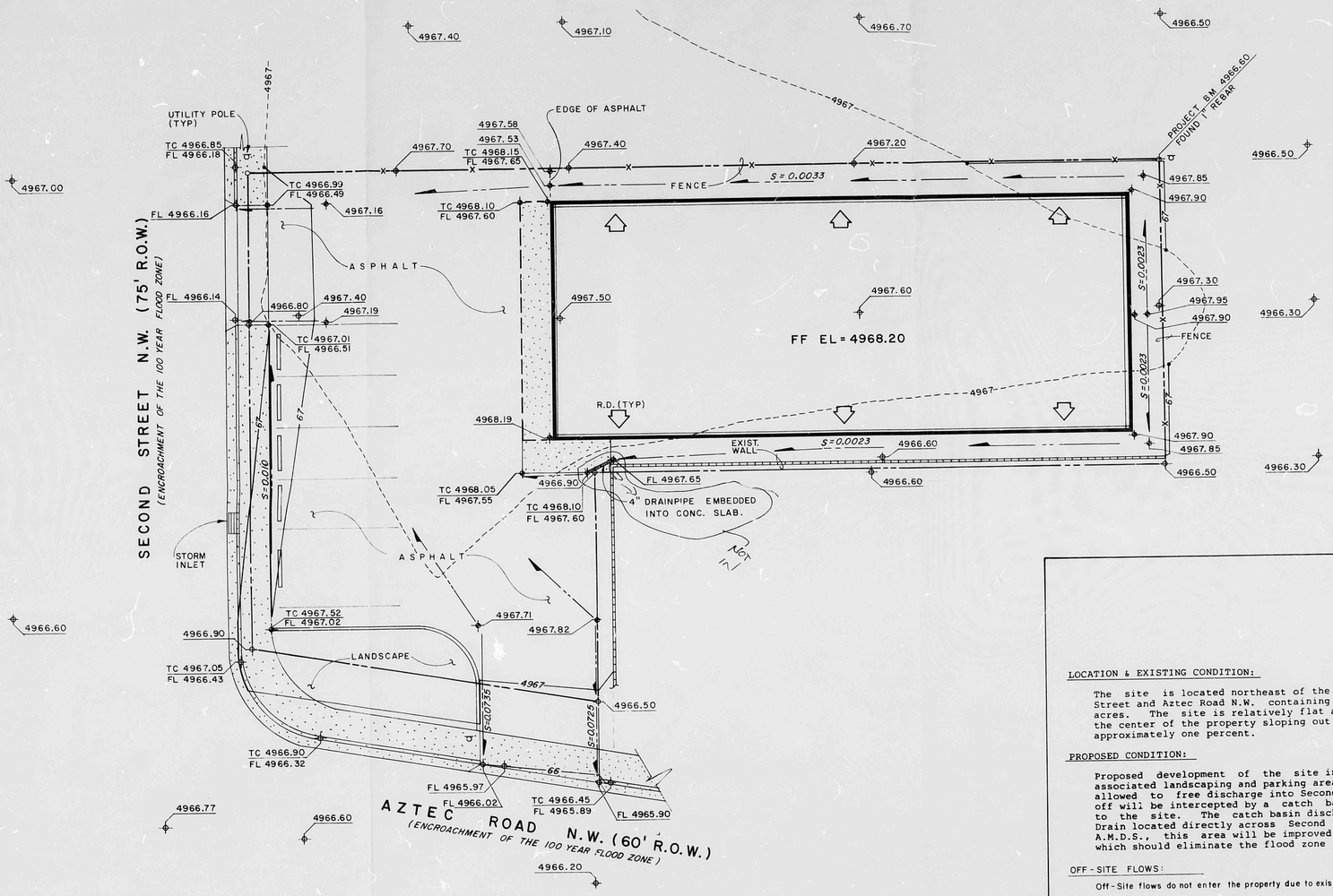
ONE PLAN

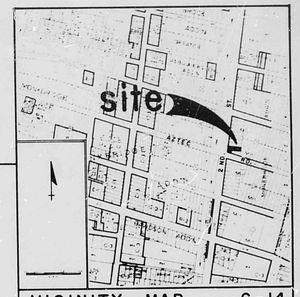
I PLAN FOR

PAUL LAMBERT

BLDG.

G14- D32





VICINITY MAP G-14

VICTOR J. CHAVEZ
STATE OF NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
10/28/85
11/6/85

NOTICE TO CONTRACTOR:

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE, INTERIM STANDARD SPECIFICATIONS, PUBLIC WORKS CONSTRUCTION, 1985.
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
3. 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 OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
4. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
5. CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL DURING CONSTRUCTION, INCLUDING ANY PROVISIONS THAT NEED TO BE TAKEN TO DIRECT ANY SEDIMENT FROM ENTERING THE CITY RIGHT-OF-WAY.
6. A FLOOD HAZARD CERTIFICATE IS REQUIRED UPON COMPLETION OF THE PROJECT.

LEGAL:

LOT "2" AND PORTION OF LOT "1", BLOCK "B", MONKBRIDGE ADDITION, ALBUQUERQUE, NEW MEXICO.

NOTES:

SURVEY DATA PROVIDED BY HALL SURVEYING CO., ALBUQUERQUE, NEW MEXICO, JUNE, 1985.

FLOOD HAZARD BOUNDARY MAP / PANEL #22.

BENCH MARK:

A.C.S. "11-G14, 1979" THE STATION IS A STANDARD BRASS TABLET SET FLUSH WITH THE GROUND AND IS LOCATED IN THE SOUTHWEST QUADRANT OF THE INTERSECTION OF CANDELARIA ROAD AND SECOND STREET, N.W. EL. = 4968.03.

LEGEND:

CONTOUR (PROPOSED)	——67——
CONTOUR (EXISTING)	- - - 67 - - -
SPOT ELEVATION (PROPOSED)	——— ✦
SPOT ELEVATION (EXISTING)	——— ⌖
PROPERTY LINE	——— - - -

DRAINAGE PLAN

BUILDING FOR MARTY AND PAUL LAMBERT

LOCATION & EXISTING CONDITION:

The site is located northeast of the intersection of Second Street and Aztec Road N.W. containing approximately 0.2198 acres. The site is relatively flat and has a high point in the center of the property sloping out in all directions at approximately one percent.

PROPOSED CONDITION:

Proposed development of the site includes a building with associated landscaping and parking areas. The site will be allowed to free discharge into Second Street where the runoff will be intercepted by a catch basin located adjacent to the site. The catch basin discharges into the Alameda Drain located directly across Second Street. As per the A.M.D.S., this area will be improved under project #117-02B which should eliminate the flood zone in Second Street.

OFF-SITE FLOWS:

Off-Site flows do not enter the property due to existing elevations.

CALCULATIONS:

Area = 0.2198 acres
Soil Series - Gm
Hydrologic Soil Group - B
I = 2.2 in./hr. Plate 22.2 D-2
6-hour, 100-year rainfall = 2.2 in. Plate 22.2 D-1
i = (2.2)(2.2) = 4.84 in./hr.

EXISTING ON-SITE CONDITIONS:

Percent Impervious = 0%
C = 0.34 Plate 22.2 C-1
Q(100) = (0.34)(4.84)(0.2198) = 0.36 cfs
Q(10) = (0.657)(0.36) = .24 cfs
CN = 75 Plate 22.2 C-2
Direct Runoff = 0.5 in. Plate 22.2 C-4
V(100) = (0.5)(0.2198)(43560)/12 = 399 cu. ft.
V(10) = (0.657)(399) = 262 cu. ft.

PROPOSED ON-SITE CONDITIONS:

Percent Impervious = 85%
C = 0.81 Plate 22.2 C-1
Q(100) = (0.81)(4.84)(0.2198) = 0.86 cfs
Q(10) = (0.657)(0.86) = 0.57 cfs
CN = 92 Plate 22.2 C-2
Direct Runoff = 1.45 in. Plate 22.2 C-4
V(100) = (1.45)(0.2198)(43560)/12 = 1157 cu. ft.
V(10) = (0.657)(1157) = 760 cu. ft.

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NOV 07 1985
HYDROLOGY SECTION

GRADING & DRAINAGE PLAN

SCALE: 1"=10'-0"

	GRADING & DRAINAGE PLAN	C
	BUILDING FOR PAUL & MARTY LAMBERT ALBUQUERQUE NEW MEXICO	
ISSUED:	G14/D32	1