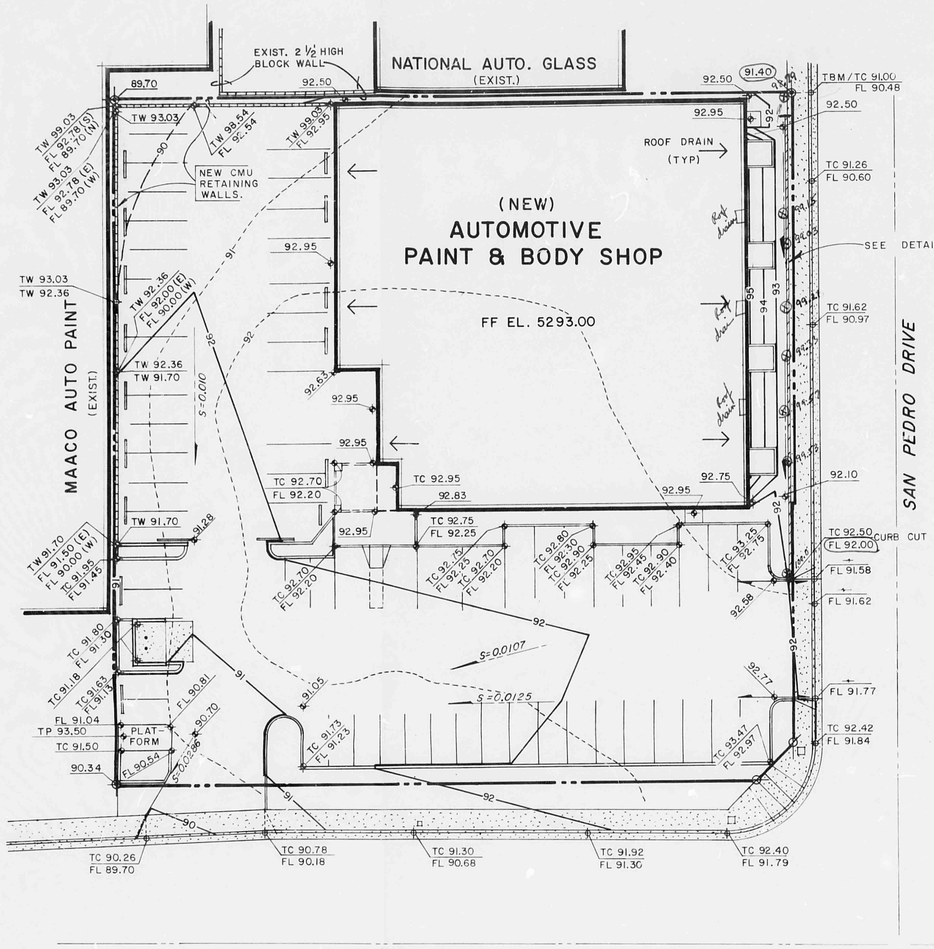
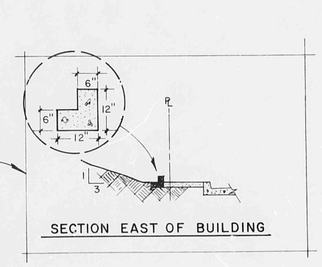
HYDROLOGY

K18/D32
ONE PLAN

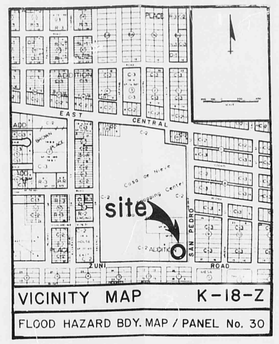
K18-D32

1 PLAN





SCALE: 1"=20'-0"



LEGEND

- PROPERTY LINE
- CURB & GUTTER
- BUILDING
- CONCRETE SIDEWALK/SLAB
- FENCE
- CONTOUR (EXISTING)
- CONTOUR (NEW)
- SPOT ELEVATION (EXISTING)
- SPOT ELEVATION (NEW)

DRAINAGE PLAN

The study site is located on the northwest corner of the intersection of San Pedro Drive and Zuni Road S.E. containing approximately 0.918 acres. The site is presently developed and slopes from southeast to northwest with an average slope of approximately 2 percent. Runoff from the site discharges to the property to the north and west and to San Pedro Drive and Zuni Road. The storm sewer system No. 206-01A has recently been constructed and is in operation. "This system will prevent flooding at Southern Avenue, Trumbull Avenue, Bell Avenue, Zuni Road, and San Pedro Drive". (AMDS - Volume II pg. 15)

Off-site flows have no impact on the proposed development. Adjacent areas north, south, east, and west are prevented from contributing flows to the site by existing elevations.

On-site flows will be allowed to sheet flow to Zuni Road and San Pedro Drive.

Proposed development of the site includes a building with associated parking and landscaping. If constructed as proposed, the new development will not be susceptible to flooding nor increase the threat of flooding in downstream areas in the event of a 100-year storm.

CALCULATIONS:
Area = 0.918 acres
Soil Series - TgB
Hydrologic Soil Group - B
I = 2.2 in./hr. Plate 22.2 D-2
6-hour, 100-year rainfall = 2.3 in. Plate 22.2 D-1
i = (2.2)(2.3) = 5.06 in./hr.

EXISTING ON-SITE CONDITIONS:
Percent Impervious = 96%
C = 0.90 Plate 22.2 C-1
Q(100) = (0.90)(5.06)(0.918) = 4.18 cfs
Q(10) = (0.657)(4.18) = 2.75 cfs
CN = 96 Plate 22.2 C-2
Direct Runoff = 1.9 in. Plate 22.2 C-4
V(100) = (1.9)(0.918)(43560)/12 = 6331 cu. ft.
V(10) = (0.657)(6331) = 4160 cu. ft.

PROPOSED ON-SITE CONDITIONS:
Percent Impervious = 90%
C = 0.86 Plate 22.2 C-1
Q(100) = (0.86)(5.06)(0.918) = 3.99 cfs
Q(10) = (0.657)(3.99) = 2.62 cfs
CN = 94 Plate 22.2 C-2
Direct Runoff = 1.7 in. Plate 22.2 C-4
V(100) = (1.7)(0.918)(43560)/12 = 5665 cu. ft.
V(10) = (0.657)(5665) = 3722 cu. ft.

RECEIVED FEB 14 1986 HYDROLOGY SECTION

SITE GRADING AND DRAINAGE PLAN

1"=20'-0"

K18/D32

THE BURNS/PETERS GROUP
ARCHITECTS PLANNERS
8000 PENNSYLVANIA CIRCLE N.E. ALBUQUERQUE NM 87110 505 265 3641

NOTES

1. LEGAL DESCRIPTION:
SOUTH 200' OF BLOCK 66 OF THE TIJERIAS PLACE ADDITION.

2. BENCH MARKS:
A - TBM LOCATED OPPOSITE N/E CORNER OF PROPERTY ON TOP OF CURB. ELEVATION = 5291.00.
B - TBM LOCATED ON THE S/W CORNER OF ARIZONA AND ZUNI S.E. AT THE BONNET BOLT COVER ON THE FIREHYDRANT. ELEVATION = 5298.30.
C - BM LOCATED AT THE EAST NORTHEAST (ENE) CURB RETURN. STATION IS A 3-1/4" ALUMINUM TABLET SET IN A DRILL HOLE FLUSH WITH THE TOP OF CURB, STATION IS STAMPED "ACS, 7-K18, 1984". ELEVATION = 5293.108'.

3. SURVEY:
SURVEY DATA PROVIDED BY CHARLES TIM SCANNELL RNMLS, ALBUQUERQUE, NEW MEXICO. (11/13/85 REVISION).

4. REQUIRED FLOOD PLAIN ELEVATION = 92.18 (2' ABOVE FLOW LINE IN ZUNI.

5. FINISHED FLOOR ELEVATION WILL NEED TO BE CERTIFIED BY THE ENGINEER PRIOR TO CERTICATE OF OCCUPANCY RELEASE.

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.

REVISIONS

VICTOR J. CHAVEZ — STATE OF NEW MEXICO — NO. 5313 — REGISTERED PROFESSIONAL ENGINEER — ENGINEER 2/13/86

STATE OF NEW MEXICO — RONALD L. PETERS NO. 789 — REGISTERED ARCHITECT — ARCHITECT

SALOMON INVESTMENTS
AUTOMOTIVE
PAINT AND BODY SHOP

SAN PEDRO AND ZUNI SE
ALBUQUERQUE, NEW MEXICO

PROJECT NO 8528 DATE 1-6-86

C2
SHEET OF 5