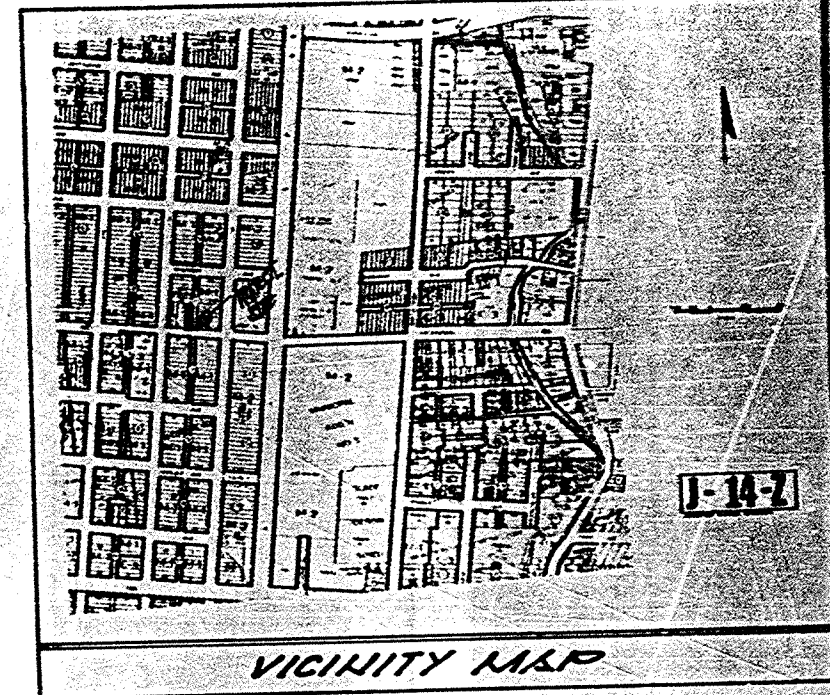
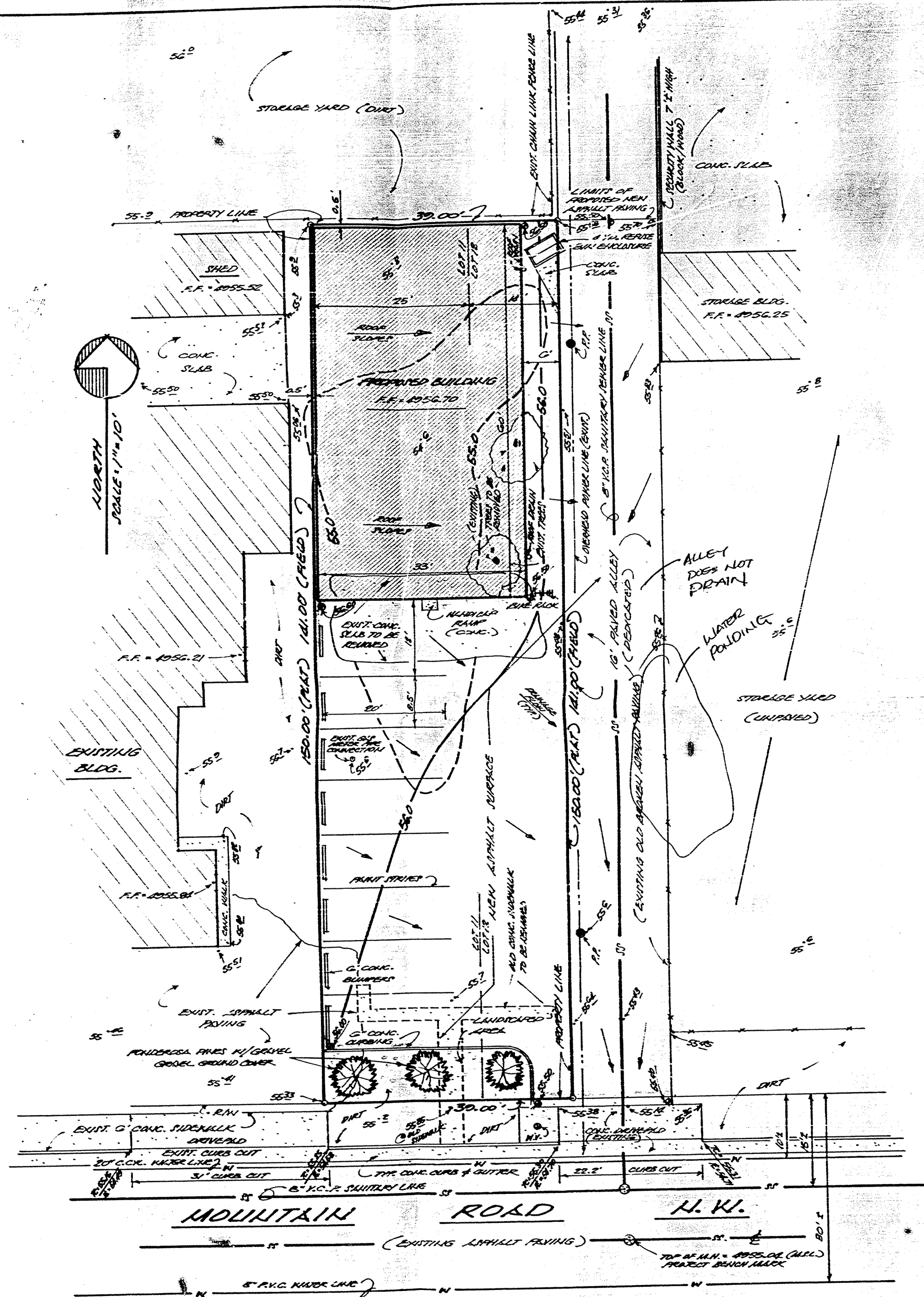




DESIGN NOTES:

THE FOLLOWING ITEMS CONSTITUTE THE PROPOSED PROJECT AND ARE TO BE CONSIDERED HEREON:

- GRADING-TRAVERSE PLAN
- VEGETATION MAP
- LEGAL DESCRIPTION OF THE PROPERTY WITH IMPROVEMENTS AT VARIOUS ELEVATIONS
- EXISTING AND PROPOSED ALLEY PLAN

FOR THE BUILDING IMPROVEMENTS AND DRAINAGE SYSTEM, THE WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE, NEW MEXICO, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AND THE CITY OF ALBUQUERQUE, NEW MEXICO, STANDARD SPECIFICATIONS FOR WATER SUPPLY SYSTEMS, LATEST EDITION.

THE ENGINEER HAS BEEN ADVISED THAT THE PROPOSED IMPROVEMENTS WILL BE DONE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE, NEW MEXICO, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AND THE CITY OF ALBUQUERQUE, NEW MEXICO, STANDARD SPECIFICATIONS FOR WATER SUPPLY SYSTEMS, LATEST EDITION.

DRAINAGE CALCULATIONS

- I. REFERENCES:**
- A. City of Albuquerque Development Process Manual (DPM) Volume 2, Design Criteria, Chapter 22, Drainage, Flood Control and Erosion Control.
 - B. Soil Survey of Bernalillo County and Parts of Sandoval and Valencia Counties, New Mexico, United States Department of Agriculture, Soil Conservation Service.
- II. GENERAL INFORMATION:**
- A. Soil Type (Ref. B., Page 30) Soil type is Gk. Glendale loam. The hydrologic soil group is "B".
 - B. Imperviousness:
- | Type of Surface | Existing Area Sq. Ft. Acres | Proposed Area Sq. Ft. Acres |
|---------------------|-----------------------------|-----------------------------|
| Building roof | | 1980 |
| Concrete Surfaces | | N/A |
| Asphalt Surfaces | | 3255 |
| Landscaping | | 264 |
| Undeveloped surface | 5499 | |
| Site Total | 5499 0.1262 | 5499 0.1262 |
| Percent impervious | 0% | 95% |
- C. "C" Factor (See Ref. A., Plate 22.2 C-1)
 - 1. Undeveloped "C" Factor = 0.34
 - 2. Developed "C" Factor = 0.92
 - D. Rainfall, 100-year, 6-hour, R_6 : (See Ref. A., Plate 22.2 D-1) $R_6 = 2.2$ inches.
 - E. Time of Concentration, T_c : Use the minimum time of Concentration of 10 minutes for a site of this size.
 - F. Rainfall Intensity, I : (See Ref. A., Plate 22.2 D-2)

$$I = R_6 \times 6.84 \times T_c^{-0.51} = 2.2 \times 6.84 \times (10)^{-0.51} = 4.65$$
- III. PEAK DISCHARGE:**
- A. Existing Conditions (Use Rational Equation)

$$Q_{100} = 0.34 \times 4.65 \times 0.1262 = 0.20 \text{ cfs}$$

$$Q_{10} = 0.657 \times 0.20 = 0.13 \text{ (Ref. A., Plate 22.2 D-1)}$$
 - B. Developed conditions.

$$Q_{100} = 0.92 \times 4.65 \times 0.1262 = 0.53 \text{ cfs}$$

$$Q_{10} = 0.657 \times 0.53 = 0.35 \text{ cfs}$$

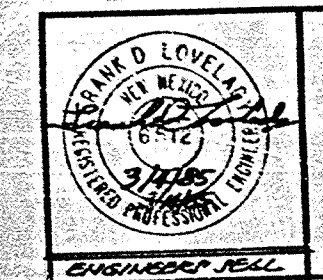
- CONSTRUCTION NOTES:**
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 765-1234 FOR LOCATION OF EXISTING UTILITIES.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
 - ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
 - ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.

- GENERAL NOTES:**
- TOPOGRAPHY SURVEY PERFORMED BY "TRANSIT-STADIA METHOD".
 - NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT PROPERTY OTHER THAN SHOWN ON THE MAP HEREON.
 - UTILITY LINE INFORMATION OBTAINED FROM CITY OF ALBUQUERQUE ENGINEERING DEPARTMENT RECORDS AND FIELD SURVEY DATA.
- BENCH MARK:**
- STANDARD "SCRS" BRASS CAP STAMPED "1-224 9541" SET IN THE TOP OF TRAFFIC WARNING LIGHT AT MOUNTAIN ROAD N.W. AND RAILROAD TRACK. M.S.L. ELEVATION = 4958.560
- PROJECT TEMPORARY BENCH MARK (TBM) IS AS SHOWN ON THE GRADING PLAN HEREON.

LEGAL DESCRIPTION:

LOT 11 & 12, BLOCK 15, PLAT ADDITION, ALBUQUERQUE, NEW MEXICO, (FILED APRIL 29, 1911)

- LEGEND:**
- 55.30 = TOP OF CURB ELEVATION
 - 55.70 = CURB FINISH LINE ELEVATION
 - 55.0 = EXISTING CONTOUR
 - 55.5 = PROPOSED CONTOUR
 - 55.50 = EXISTING SPOT ELEVATION
 - 55.50 = PROPOSED SPOT ELEVATION
 - 55.50 = PROPOSED LIMIT OF NEW PAVING



DRAINAGE PLAN FOR
ALL OFFICE/SHOP FOR MOUNTAIN-FLUJO
(121 MOUNTAIN RD. N.W.)
ALBUQUERQUE, NEW MEXICO
JANUARY, 1985

J14/D50