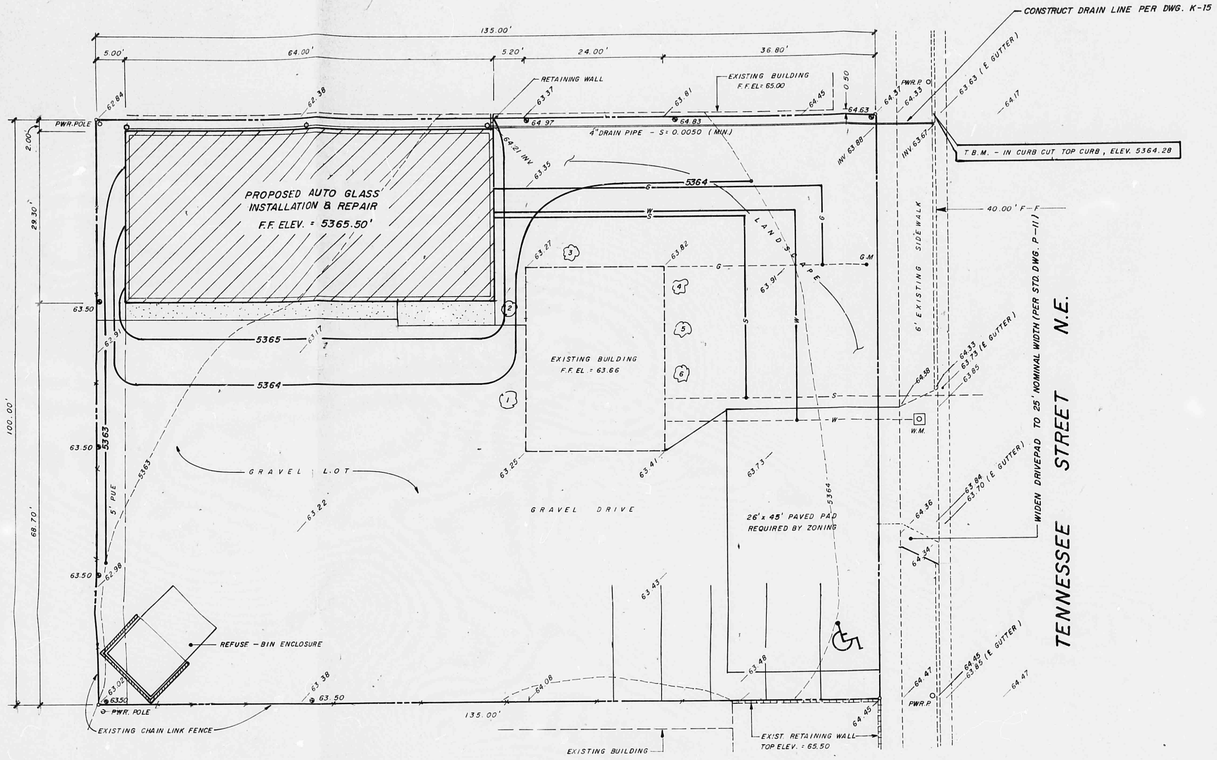
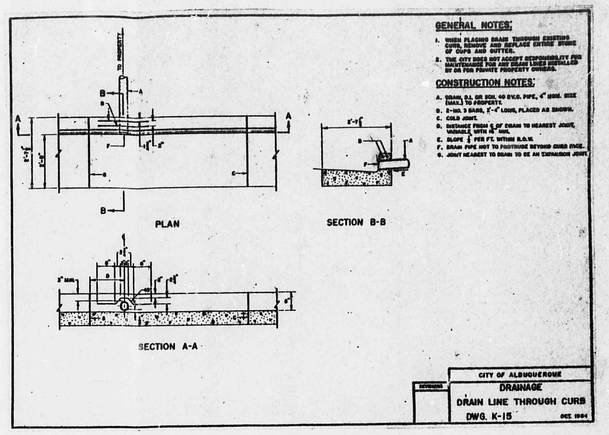
HYDROLOGY K19/D79 1 PLAN

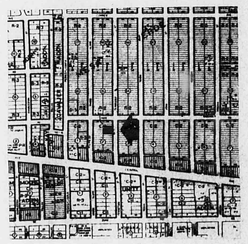
K19/D79

1 Plan

D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D







LOCATION MAP K-19-Z

FLOODWAY
FLOOD BOUNDARY
FLOODWAY MAP
PANEL 30 OF 50 NO. 350002 0030

RECEIVED MAR 22 1988 HYDROLOGY SECTION

LEGEND

- 5363 — EXISTING CONTOURS
- 5364 — PROPOSED CONTOURS
- PROPOSED SPOT ELEVATION
- 63.00 — EXISTING SPOT ELEVATION
- ROOF DRAINS

NOTE

CONNECT 3 ROOF DRAINS ON NORTH WALL TO A 4" DRAIN LINE WHICH DRAINS THE PROPOSED BUILDING TO TENNESSEE STREET NE.

BENCH MARK

ASC — A-51 — ELEV. 5367.276
SOUTH — SW CURB RETURN CENTRAL AND TENNESSEE.

LANDSCAPING — (EXISTING)

1 ROSE BUSH
2 LILAC BUSH
3 LILAC BUSH
4 EVERGREEN CEDAR
5 EVERGREEN CEDAR
6 LILAC BUSH

DISCUSSION

THIS PROPERTY, COMPOSED OF LOTS 31,32,33 AND 34, MESA VERDE ADDITION, HAS BEEN REPLATTED AS LOT 31 A, MESA VERDE ADDITION. IT IS LOCATED ON TENNESSEE, N.E.. IN THE FIRST BLOCK NORTH OF CENTRAL AVE. THE ADDRESS IS 123 TENNESSEE, N.E. THE 100' X 135' LOT CONTAINS AN EXISTING HOUSE, WHICH IS TO BE RETAINED AND USED FOR THE FORSEEABLE FUTURE. THE LOT IS LOWER THAN THE CURB AND SIDEWALK ON TENNESSEE, WHICH INDICATES THAT TENNESSEE WAS CONSTRUCTED AFTER THE HOUSE WAS BUILT. THE LOT IS ZONED C-1 AND IS BEING USED AS A C-1 LOT.

BECAUSE OF THE EXISTING STRUCTURE, THE ENTIRE LOT CANNOT NOW BE FILLED TO DRAIN INTO TENNESSEE. THE ONLY PRACTICAL SOLUTION IS TO CONNECT A 4" DRAIN LINE TO THE DOWNSPOUTS ON THE NEW CONSTRUCTION AND DRAIN IT THROUGH A STANDARD CURB DRAIN LINE INTO TENNESSEE. THE PROPOSED BUILDING FF ELEVATION IS DESIGNED SUCH THAT WHEN THE FINAL HIGHEST USE IS MADE OF THIS LOT, THE LOT CAN BE FILLED AND DRAINED INTO TENNESSEE.

BOTH OF THE ADJOINING LOTS NORTH AND SOUTH HAVE BEEN FILLED, AND STRUCTURES HAVE BEEN ERECTED ON THEM. THERE ARE NO OFFSITE FLOWS TO OR ACROSS THIS LOT.

ALL OF THE PRECIPITATION ON THIS LOT AT THE PRESENT TIME IS RETAINED, AND IS DISPOSED OF BY PERCOLATION, EVAPORATION OR EVAPO-TRANSPIRATION. A SMALL FRACTION IS BLEEDING OUT BY SHEET FLOW AT THE SOUTH END OF THE WEST PROPERTY LINE. THE LOT IS IN A 2.35 IN. PER 6 HR. 100 YEAR STORM ZONE. THE TOTAL ACCUMULATED 100 YEAR MAX. V PRECIPITATION ON THE 100' X 135' LOT WOULD BE 2846 CF. WITH THIS ADDITION, DRAINING THE NEW CONSTRUCTION TO THE STREET, THE ACCUMULATED 100 YR. MAX. V PRECIPITATION WOULD BE 2495 CF.

USING THE MANNING EQUATION, WITH S= 0.005, 4" PVC AND n= 0.010, THE Q FLOWING FULL IS 0.17 CFS. USING A MULTIPLIER OF 2.15 FOR A MAX. Q, 100 YEAR STORM, THE RAINFALL IS 5.05 IN/ HR FOR 10 MINUTES. THIS GIVES A MAX Q ROOF RUNOFF OF 0.21 CFS. SINCE THE ROOF HAS A 30 IN. PARAPET WALL, THE FACT THAT THE ROOF DRAIN WILL NOT HANDLE THE MAX Q IS OF NO CONSEQUENCE. THE ENTIRE 10 MINUTE RAINFALL WOULD BE 0.84 INCHES.

CITY OF ALBUQUERQUE

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY

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 herein, shall be constructed in accordance with City of Albuquerque Interim Standard Specifications for Public Works Construction, 1988.
3. Two working days prior to any excavation, contractor must contact Line Locating Service, 766-1234, for location of existing utilities.
4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all constructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
5. Backfill compaction shall be according to RESIDENTIAL street use.
6. Maintenance of these facilities shall be the responsibility of the Owner of the property served.

APPROVALS	NAME	DATE
A.C.E./DESIGN		
INSPECTOR		
A.C.E./FIELD		

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO 2974 CHARLES A. COONCE

2/5/87

C. A. COONCE & ASSOC.

ENVIRONMENTAL, WATER RESOURCES, & SANITARY CONSULTING ENGINEERS
12324 PINERIDGE N.E. ALBUQUERQUE, N.M. 87112 PH. (505) 296-1089

TITLE	DRAINAGE AND GRADING PLAN			
PROJECT	125 TENNESSEE STREET N.E.			
DATE	2-5-87	REVISED	3-18-88	
DRAWN	V.W.	2-13-87		
CHECKED	C.A.C.	10-21-87		

SHEET 1 OF 1

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT

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CITY OF ALBUQUERQUE

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