HYDROLOGY

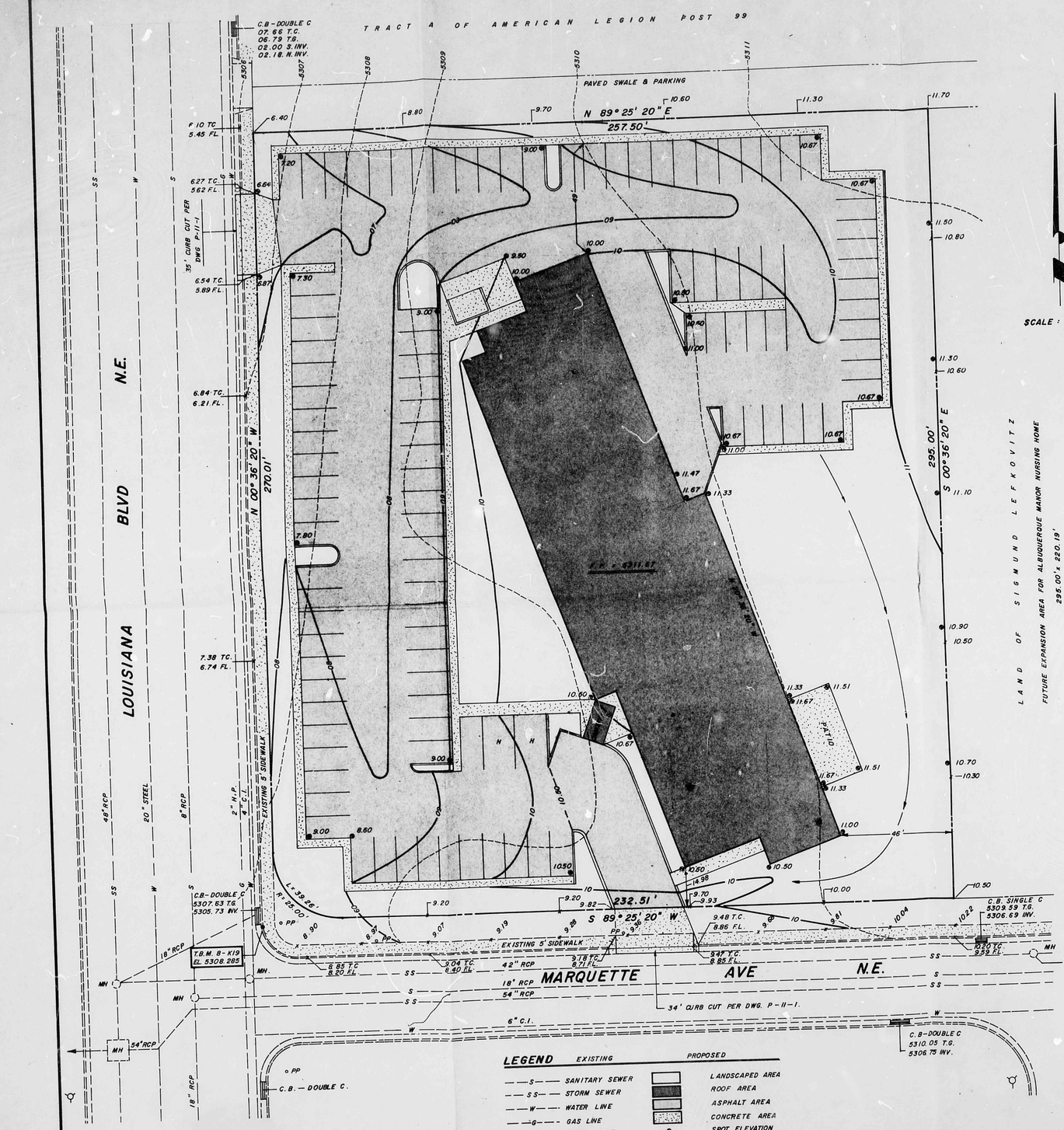
K19/D40

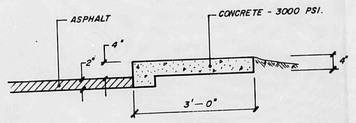
ONE PLAN

1 PLAN FOR

ALBUQ. MANOR NORSING HOME

K19-D40





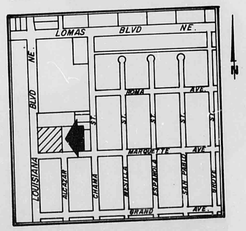
HEADER CURB AROUND PARKING AREA

(TYPICAL)

N.T.S.

NOTE : STANDARD 6"W x 12" HEADER CURB AROUND ASPHALT DRIVES NOT BORDERED BY 3'-0" HEADER CURB

SITE ADDRESS :
500 LOUISIANA N.E. ZIP 87108



LOCATION MAP

(K-19-Z)

GENERAL

The proposed project is on the N.E. corner of Louisiana and Marquette, N.E. The watershed area for this corner is virtually all developed, with only a vacant lot sporadically located. The watershed flood protection was recently upgraded by the City of Albuquerque by the installation of a 54" diameter storm sewer and an outfall to the temporary ponding inside the fairgrounds racetrack. Essentially no further increase in runoff is anticipated for this area.

The building proposed is a flat-roof structure, with no slope, utilizing a 2" X 6" edging for the built-up roof of felt, tar and gravel. In addition, an aluminum gravel stop is designed to be used on the outside edge. Therefore, a shallow pond of approximately 1½ inches will be created, which will dissipate by evaporation. This will contain the max. Q 100 year storm of 15 minutes time of collection and 0.67 inches of volume. The roof would hold approximately the 30 minute 100 year max Q storm.

The areas of the lot are as follows:

Landscaped	25,120 sq. ft.	
Sidewalks and parking	35,575 sq. ft.	
Building roof	13,530 sq. ft.	
TOTAL	74,225 sq. ft.	= 1.704 acres

The coefficient of runoff for the 100 year max Q storm is estimated using C-landscaped = 0.20, C-roof=0.0, C-parking = 0.90. For these values of C and the areas above, C- composite is 0.50. This is approximately the same as the vegetation-void existing lot.

Since the lot to the north is developed and graded to drain into the existing curb catch basins, almost no off-site flow goes through this lot.

Mr. Fred Aguirre of the City Drainage and Engineering Department has agreed to allow the release of runoff from this proposed development to the existing curb catch basins in Marquette and Louisiana, N.E.

STORM FLOWS
The curb cut on Louisiana Blvd. receives 80% of the total flow and the curb cut on Marquette Ave. receives 20%. Since the total lot is comprised of an area of 1.704 acres, and the composite C_D is 0.50, the runoff would be approximately 0.85 cfs/in/hr total, or 0.68 cfs/in/hr at the curb cut on Louisiana Blvd. and 0.17 cfs/in/hr at the Marquette Ave. curb cut.

EROSION CONTROL
Since there are no slopes greater than 10% no erosion control requirements, other than good construction practises, need be instituted. All fills will be placed with a maximum of 6 inch lifts and moisture added to give optimum moisture content for compaction to 95% modified Proctor density. Uncovered earthen surfaces will be sprinkled during windy periods to prevent a dust nuisance to nearby residences.

RECEIVED
SEP. 25 1984
HYDROLOGY SECTION

APPROVED FOR DRAINAGE
4/1/84
DATE
Billy J. Gooloy
SIGNATURE
ADVISE DRAINAGE INSPECTOR
WHEN GRADING EXECUTED

REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
NO. 2934
CARROLL A. COONCE

C. A. COONCE & ASSOC.

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

TITLE: DRAINAGE & GRADING PLAN (REVISED)

PROJECT: ALBUQUERQUE MANOR NURSING HOME

DATE	SEP-17-84	REVISED	
DRAWN	V.M.		
CHECKED	C.A.C.		

SHEET 1 OF 1

K19/D40

BRUNING 44-132 45720