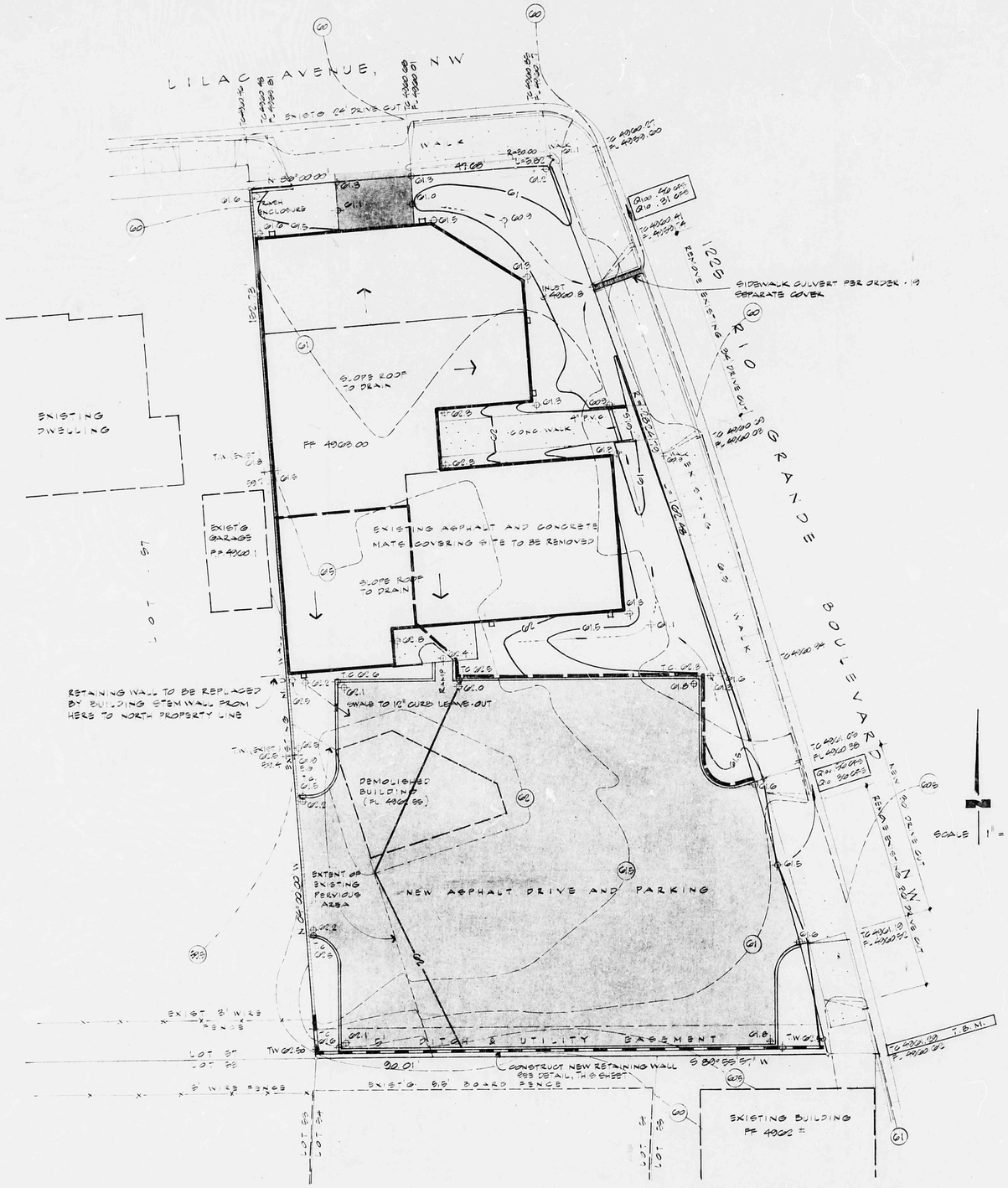
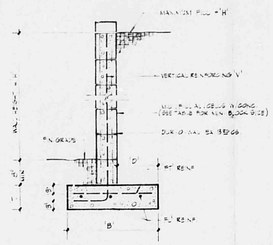
HYDROLOGY

H13/D15
1 PLAN

H13/D15

1 Plan



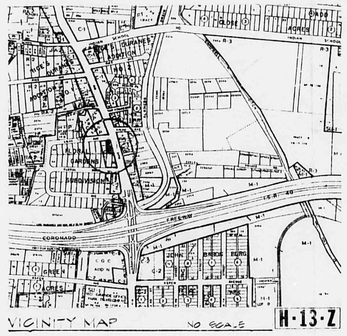


WALL HEIGHT	BACK SLOPE (DEG.)	FOOTING WIDTH B	FOOTING THICKNESS D	KEY DEPTH	REINFORCING	FOOTING REINFORCING	
					V	#1	#2
11'-6"	0°	11'-0"	0'-8½"	8"	#5@8"O.C.	—	#5@8"O.C.
8'-0"	0°	7'-8"	0'-8"	8"	#5@8"O.C.	—	5
6'-0"	0°	5'-8"	0'-8"	8"	#5@8"O.C.	—	4

WALL SECTION NO SCALE

NOTES TO CONTRACTOR

1. RETAINING WALL REQUIRES SEPARATE PERMIT
2. CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL AND ABATEMENT OF SEDIMENT TO ABUTTING STREET RIGHT-OF-WAY AND PRIVATE PARCELS



VICINITY MAP NO SCALE

BENCH MARK

1-H13 SQUARE ☐ CHISELED ON TOP OF CURB IN NNE CURB RETURN AT INTERSECT ON OF RIO GRANDE BLVD AND LILAC AVENUE, NW

ELEV. 4900.00?

T.B.M.

TOP OF CURB @ SE CORNER OF PROPERTY

ELEV 4901.00

LEGEND

CONTOUR INTERVAL - ONE-HALF FOOT

61 EXISTING CONTOUR

61 PROPOSED CONTOUR

+61.0 EXISTING SPOT ELEVATION

+61.0 PROPOSED SPOT ELEVATION

PROPOSED CONTOURS AND ELEVATIONS INDICATE FINISH SURFACES.

CONTRACTOR SHALL DETERMINE SUBGRADES

INTERNAL DIVISION OF FLOWS

CALCULATIONS

AREA OF SITE	11221 SQ FT (.2576 AC.)
SLOPE	< 5%
SOILS GROUP	B
DEVELOPED CONDITIONS	84% IMPERVIOUS
MODIFIED C-FACTOR	.80 (PL 22.2 C1)
100 YR. RAINFALL	2.2 IN (PL 22.2 D.1)
TIME OF CONCENTRATION	10 MIN.
INTENSITY	4.85 IN/HR (PL 22.2 D.2)

ON-SITE RATE OF RUNOFF

Q_{100} = .80 x 4.85 x .26 = 1.01 CFS

Q_{10} = .687 Q100 = .06 CFS

OFF-SITE RUNOFF

NONE.

PREVIOUS SITE CONDITION

USE: FILLING STATION. EXCEPTING SOUTHWEST CORNER OF LOT (SEE NOTE) THE AREA WAS COVERED WITH ASPHALT OR CONCRETE PAVEMENT.

BUILDING DEMOLISHED AND ALL PREVIOUS PAVEMENT, SUPPLY LINES DISPENSERS AND UNDERGROUND TANKS REMOVED DURING FIRST WEEK OF SEPTEMBER 1984

PREVIOUS ROUTING OF FLOWS IS EVIDENCED BY "EXISTING" CONTOURS.

ABOUT 95% WAS ROUTED INTO LILAC AVENUE WITH THE REMAINDER, EXCEPTING THE SOUTHWEST CORNER, DRAINING THROUGH THE DRIVES INTO RIO GRANDE BLVD.

PROPOSED ROUTING

RUNOFF FROM NEW PARKING LOT WILL BE DIRECTED THROUGH DRIVE CUT INTO RIO GRANDE BLVD — INCLUDES PORTION OF ROOF

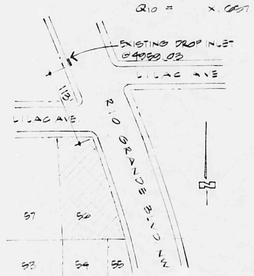
REMAINDER OF SITE WILL BE GRADED TO CONVEY RUNOFF THROUGH A SIDEWALK DRAIN CULVERT INTO RIO GRANDE BLVD (SEE ORDER - 19, SEPARATE COVER) DRAIN TO BE INSTALLED WITH REMOVAL OF DRIVE CUT.

Q_{100} @ DRIVE = .14 AC. x .8 x 4.85 IN/HR = .56 CFS PEAK

Q_{10} = Q100 x .687 = .38 CFS

Q_{100} @ DRAIN = .12 AC. x .8 x 4.85 IN/HR = .46 CFS PEAK

Q_{10} = x .687 = .31 CFS



DISPOSAL ROUTING 1" = 100'

DRAINAGE PLAN — OPEN SPACE

1023 RIO GRANDE BOULEVARD, NE
REMAINING PORTION OF LOT 8P
REPLAT OF FLORA GARDENS
ALBUQUERQUE, NEW MEXICO

FOR

P.G. MCHENRY, ARCHITECT

PREPARED BY:

ENCHANTMENT ENGINEERING
7800 MARBLE AVENUE NE SUITE 10
ALBUQUERQUE, NM 87110
505 294-8859

OCTOBER 8, 1984 REVISION: NOV. 19, 1984

SHEET 8 OF 8

RECEIVED NOV 20 1984 HYDROLOGY SECTION

84-3-13

84-3-13