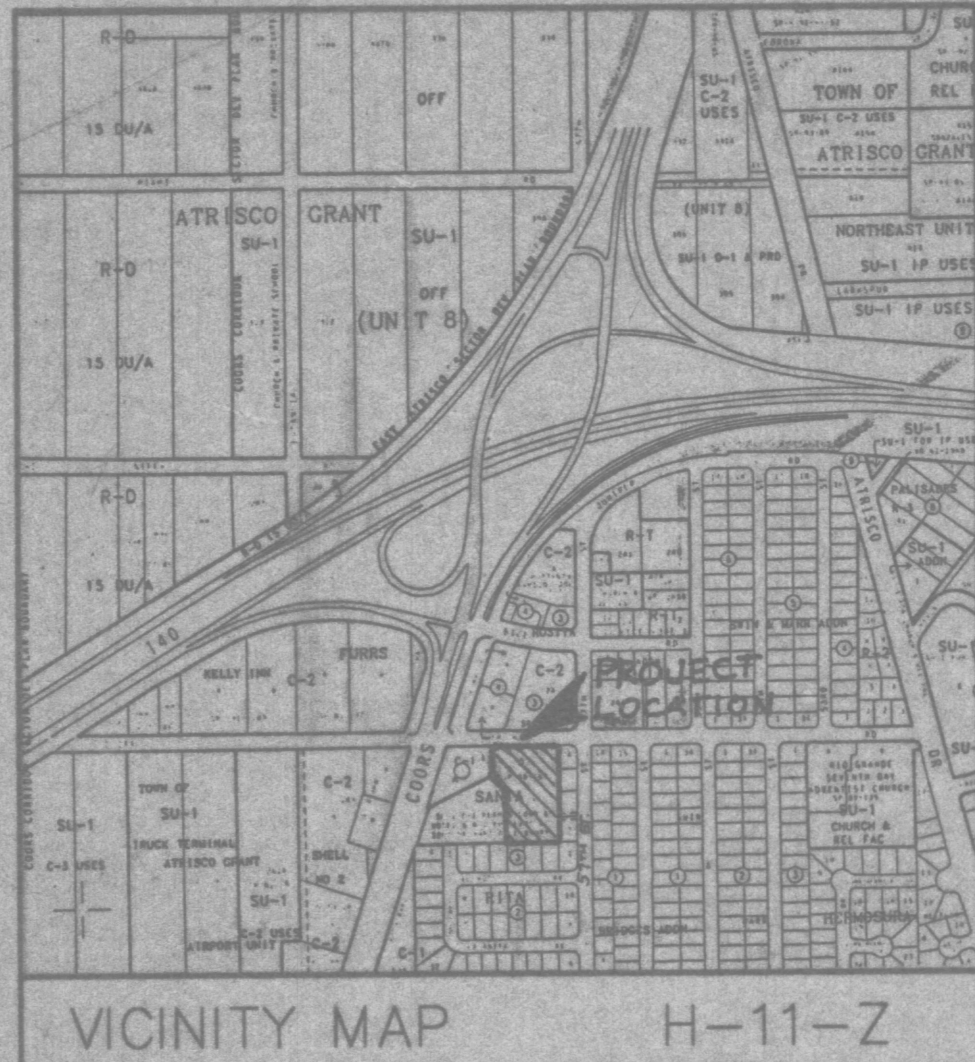




NOTES:

- Existing contours shown wherever feasible.
- New 6" CMU wall to be constructed on south and east property lines.

PRINCIPAL SPILLWAY WEIR COMPUTATIONS

$$Q = 5.00 \text{ cfs}$$

$$C = 2.70$$

$$H = 2.0 \text{ ft}$$

$$L = 0.65 \text{ ft}$$

$$Q = C + L + H \cdot 1.5$$

$$Q = 24.0 \text{ cfs}$$

EMERGENCY SPILLWAY WEIR COMPUTATIONS

$$Q = 2.70$$

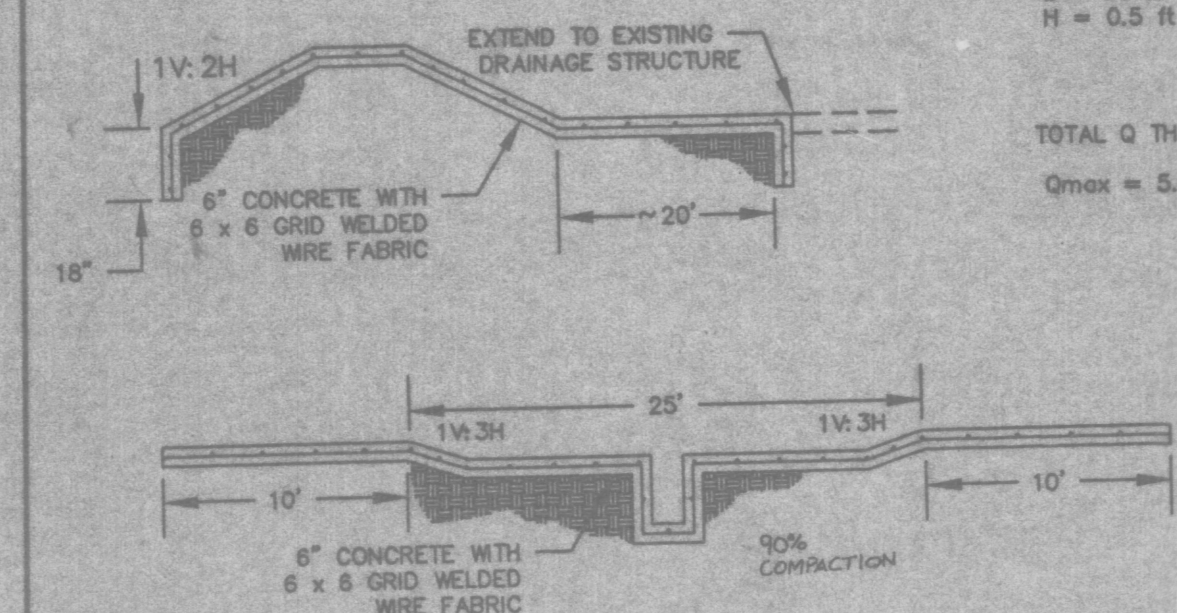
$$L = 25 \text{ ft}$$

$$H = 0.5 \text{ ft}$$

$$Q = C + L + H \cdot 1.5$$

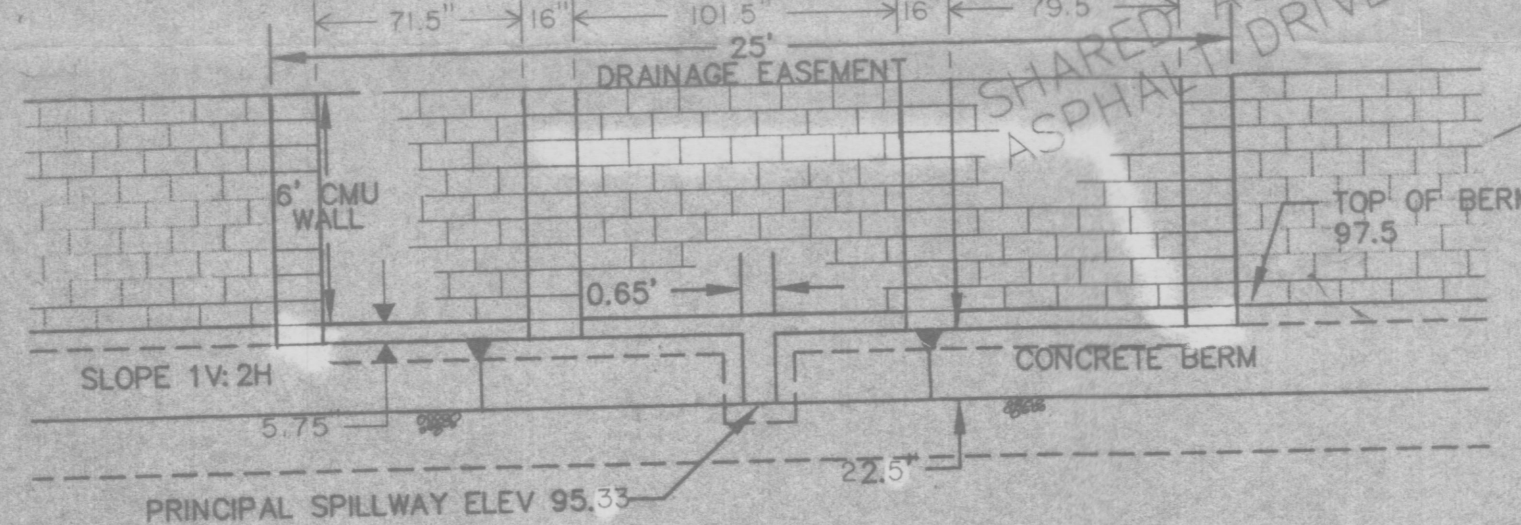
$$Q = 24.0 \text{ cfs}$$

TOTAL Q THROUGH BOTH WEIRS AT 2' OF DEPTH
 $Q_{max} = 5.00 \text{ cfs} + 24.0 \text{ cfs} = 29 \text{ cfs}$



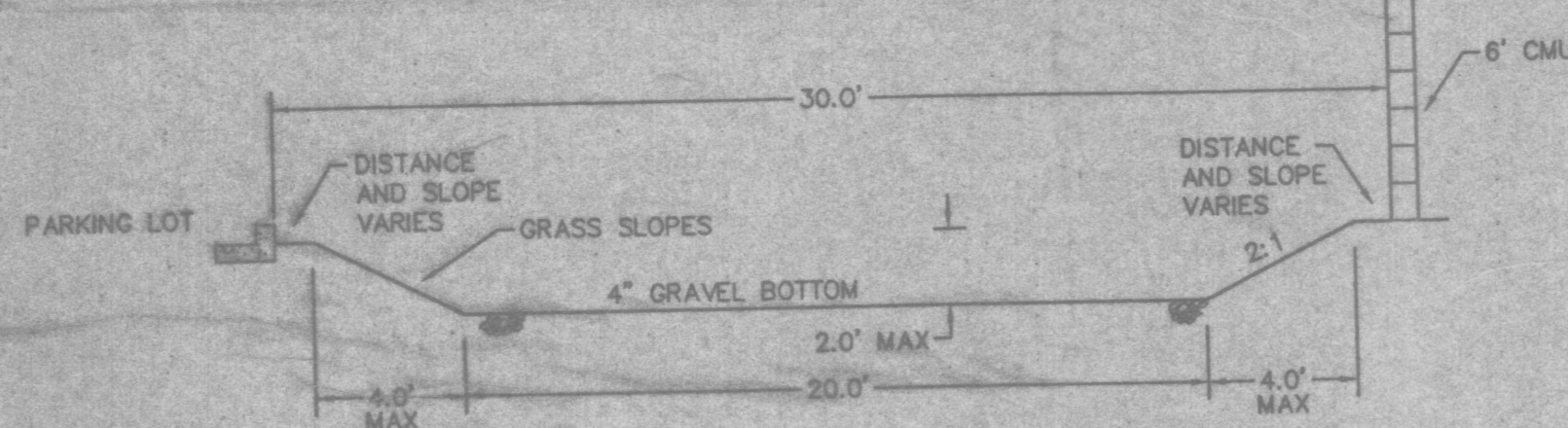
OUTFLOW STRUCTURE CONCRETE DETAILS

N.T.S.



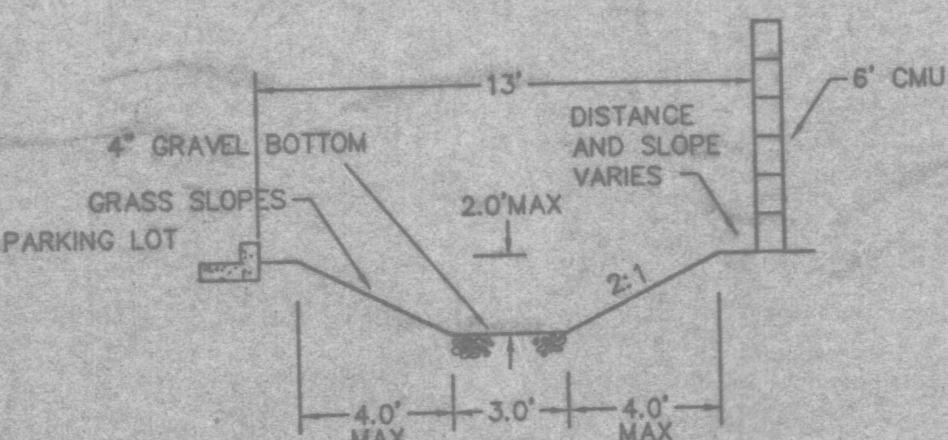
OUTFLOW STRUCTURE DETAIL

N.T.S.



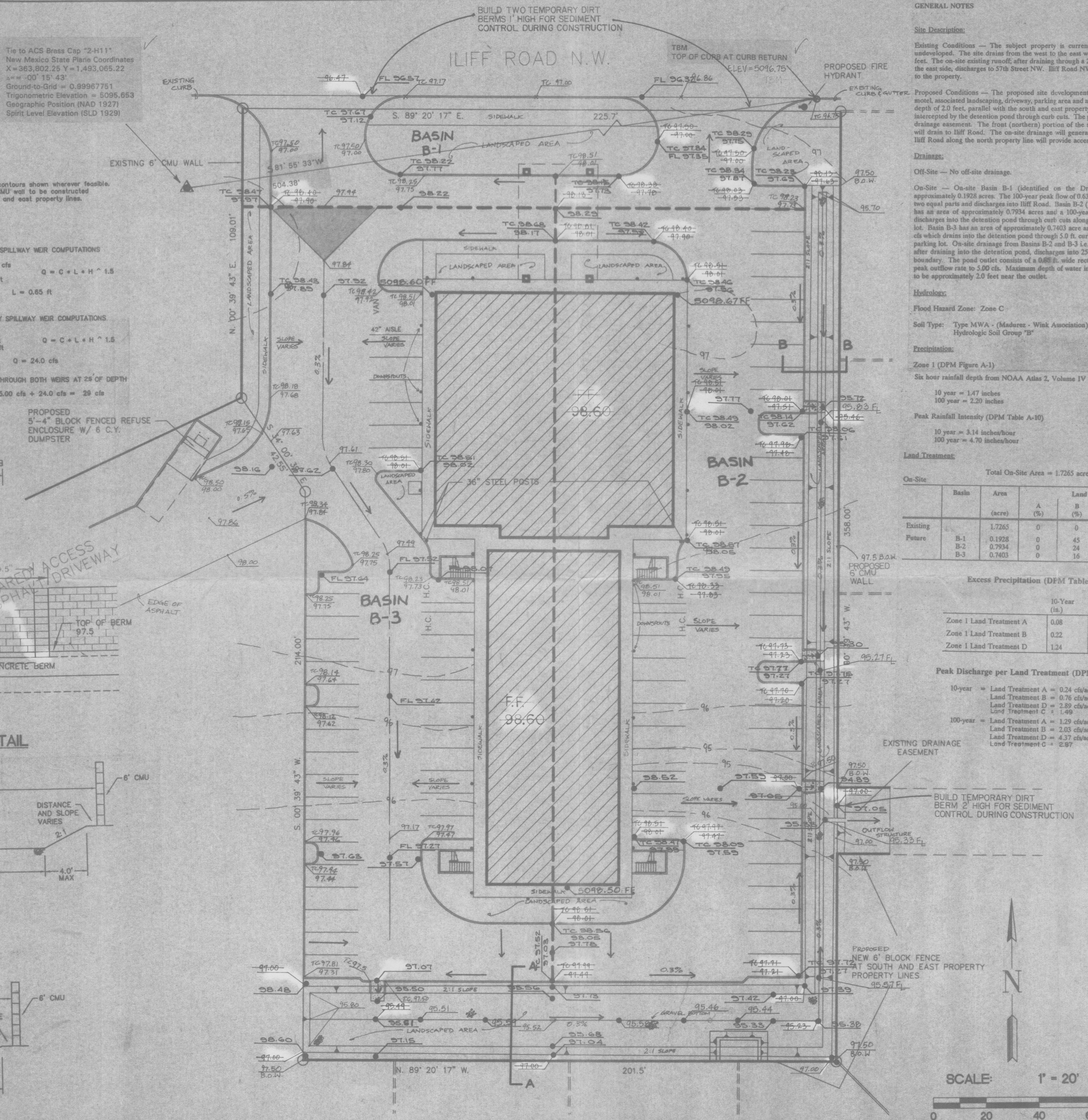
SECTION A - A

SCALE 1" = 5'



SECTION B - B

SCALE 1" = 5'



GENERAL NOTES

Site Description:

Existing Conditions — The subject property is currently a 1.7265 acre lot which is undeveloped. The site drains from the west to the east with an overall relief of about 3.0 feet. The on-site existing runoff, after draining through a 25.0 ft. drainage easement, along the east side, discharges to 57th Street NW. Liff Road NW (60 ft. R.O.W.) provides access to the property.

Proposed Conditions — The proposed site development consists of a centrally located motel, associated landscaping, driveway, parking area and a detention pond with a maximum depth of 2.0 feet, parallel with the south and east property lines. On-site drainage will be intercepted by the detention pond through curb cuts. The pond will drain into the 25.0-foot drainage easement. The front (northern) portion of the site (at the entrance, Basin B-1) will drain to Liff Road. The on-site drainage will generally follow the historic flow path. Liff Road along the north property line will provide access to the property.

Drainage:

Off-Site — No off-site drainage.

On-Site — On-site Basin B-1 (identified on the Drainage Plan) has an area of approximately 0.1928 acres. The 100-year peak flow of 0.639 cfs from Basin B-1 divides into two equal parts and discharges into Liff Road. Basin B-2 (identified on the Drainage Plan) has an area of approximately 0.7934 acres and a 100-year peak flow of 3.022 cfs, which discharges into the detention pond through curb cuts along the eastern edge of the parking lot. Basin B-3 has an area of approximately 0.7403 acres and a 100-year peak flow of 2.958 cfs which drains into the detention pond through 5.0 ft. curb cut along southern edge of the parking lot. On-site drainage from Basins B-2 and B-3 i.e., 100-year peak flow of 5.980 cfs, after draining into the detention pond, discharges into 25.0 ft. drainage easement at east boundary. The pond outlet consists of a 0.65 ft. wide rectangular weir which controls the peak outflow rate to 5.98 cfs. Maximum depth of water in the detention pond is designed to be approximately 2.0 feet near the outlet.

Hydrology:

Flood Hazard Zone: Zone C

Soil Type: Type MWA - (Madurez - Wink Association)

Hydrologic Soil Group "B"

Precipitation:

Zone I (DPM Figure A-1)

Six hour rainfall depth from NOAA Atlas 2, Volume IV

10 year = 1.47 inches

100 year = 2.20 inches

Peak Rainfall Intensity (DPM Table A-10)

10 year = 3.14 inches/hour

100 year = 4.70 inches/hour

Land Treatment:

Total On-Site Area = 1.7265 acres

On-Site	Basin	Area (acre)	A (%)	B (%)	C (%)	D (%)
Existing	B-1	1.7265	0	0	100	0
Future	B-1	0.1928	0	45	0	55
	B-2	0.7934	0	24	0	76
	B-3	0.7403	0	16	0	84

Excess Precipitation (DPM Table A-8)

	10-Year (in.)	100-Year (in.)
Zone I Land Treatment A	0.08	0.44
Zone I Land Treatment B	0.22	0.67
Zone I Land Treatment D	1.24	1.97

Peak Discharge per Land Treatment (DPM Table A-9)

10-year	Land Treatment A = 0.24 cfs/acre
	Land Treatment B = 0.76 cfs/acre
	Land Treatment D = 2.89 cfs/acre
	Land Treatment C = 1.49
100-year	Land Treatment A = 1.29 cfs/acre
	Land Treatment B = 2.03 cfs/acre
	Land Treatment D = 4.37 cfs/acre
	Land Treatment C = 2.87

EXISTING DRAINAGE EASEMENT

BUILD TEMPORARY DIRT BERM 2' HIGH FOR SEDIMENT CONTROL DURING CONSTRUCTION

PROPOSED NEW 6" BLOCK FENCE AT SOUTH AND EAST PROPERTY LINES

PROPOSED 6" CMU WALL

OUTFLOW STRUCTURE

EXISTING DRAINAGE EASEMENT

PROPOSED 6" CMU WALL

OUTFLOW STRUCTURE

EXISTING DRAINAGE EASEMENT

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EXISTING DRAINAGE EASEMENT

PROPOSED 6" CMU WALL

OUTFLOW STRUCTURE

SCALE: 1" = 30'



LEGEND

- 97 EXISTING CONTOUR
- TC 96.45 EXISTING SPOT ELEVATION
- DRAINAGE AREA BOUNDARY
- CURB & GUTTER
- SURFACE FLOW DIRECTION
- ⊕ SIGN
- ⊕ LITE POLE
- ⊕ TRAFFIC PULLBOX
- ⊕ GUY WIRE
- ⊕ HIGHWAY SIGN
- EXISTING MANHOLE

EXISTING 25' DRAINAGE EASEMENT
EXISTING 10' CONCRETE CHANNEL
CAPACITY = 48cfs

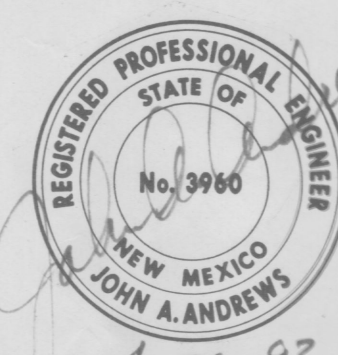
EXISTING $Q_{100} = 5.30$ cfs
EXISTING $Q_{10} = 3.49$ cfs
DEVELOPED $Q_{100} = 5.30$ cfs
DEVELOPED $Q_{10} = 3.29$ cfs

NOTES:

- AN EXISTING GRADING AND DRAINAGE PLAN FOR THE SITE IS ON FILE AT THE CITY OF ALBUQUERQUE'S HYDROLOGY SECTION. THE PLAN WAS PREPARED BY ANDREWS, ASBURY & ROBERT, INC. AND APPROVED BY THE CITY OF ALBUQUERQUE IN 1987/88. H-11/D29
- NO OFF-SITE STORM WATER RUNOFF CURRENTLY ENTERS THE SITE.
- DOWNSTEAM CAPACITY
SOUTHEAST (57th Street)
ON-SITE STORM WATER RUNOFF DISCHARGING TO CITY PUBLIC RIGHT OF WAY WILL REMAIN THE SAME DUE TO THE MOTEL SITE DEVELOPMENT THUS, THERE WILL BE NO INCREASED IMPACT ON THE DOWNSTEAM STORM DRAIN CAPACITY.
NORTHWEST (Coors Road)
THE RESTAURANT SITE WILL BE ALLOWED TO DISCHARGE FREELY ONTO COORS RD. AND INTO THE 48" RCP STORM DRAIN IN COORS RD. DUE TO THE SHORT TIME OF CONCENTRATION ($T_c < 12$ min).

LEGAL DESCRIPTION

LOT 5, SANTA RITA WEST; FILED 3/31/88, Bk. C 36, Pg. 143



4-30-93
7-15-93
John A. Andrews

REVISED: JULY 15, 1993

LOT 5 SANTA RITA WEST CONCEPTUAL DRAINAGE PLAN

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS

FILE No.	DRAWN	CHECKED	DATE	NEW MEXICO
93-663	DV	DA, JA	APRIL 1993	

SHEET 1 OF 1