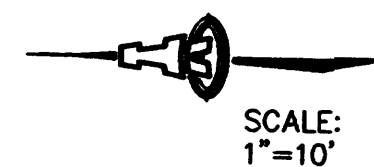


LEGEND

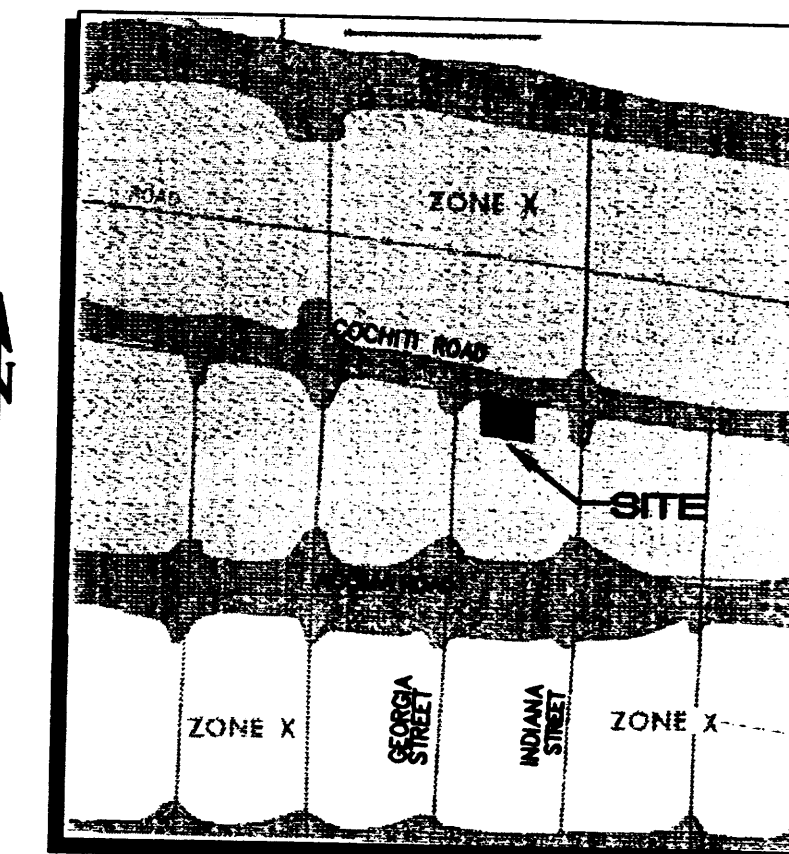
- 5310--- EXISTING CONTOUR
- 11— PROPOSED CONTOUR
- ◆78.3 PROPOSED SPOT ELEVATION
- FLOW ARROW
- FF=5311.90 FINISH FLOOR ELEVATION

KEYED CONSTRUCTION NOTES

1. MATCH EXISTING PAVEMENT.
2. SAWCUT & REMOVE EXISTING CONCRETE SLAB.
3. REMOVE & REPLACE ASPHALT PAVING TO ACHIEVE POSITIVE DRAINAGE.



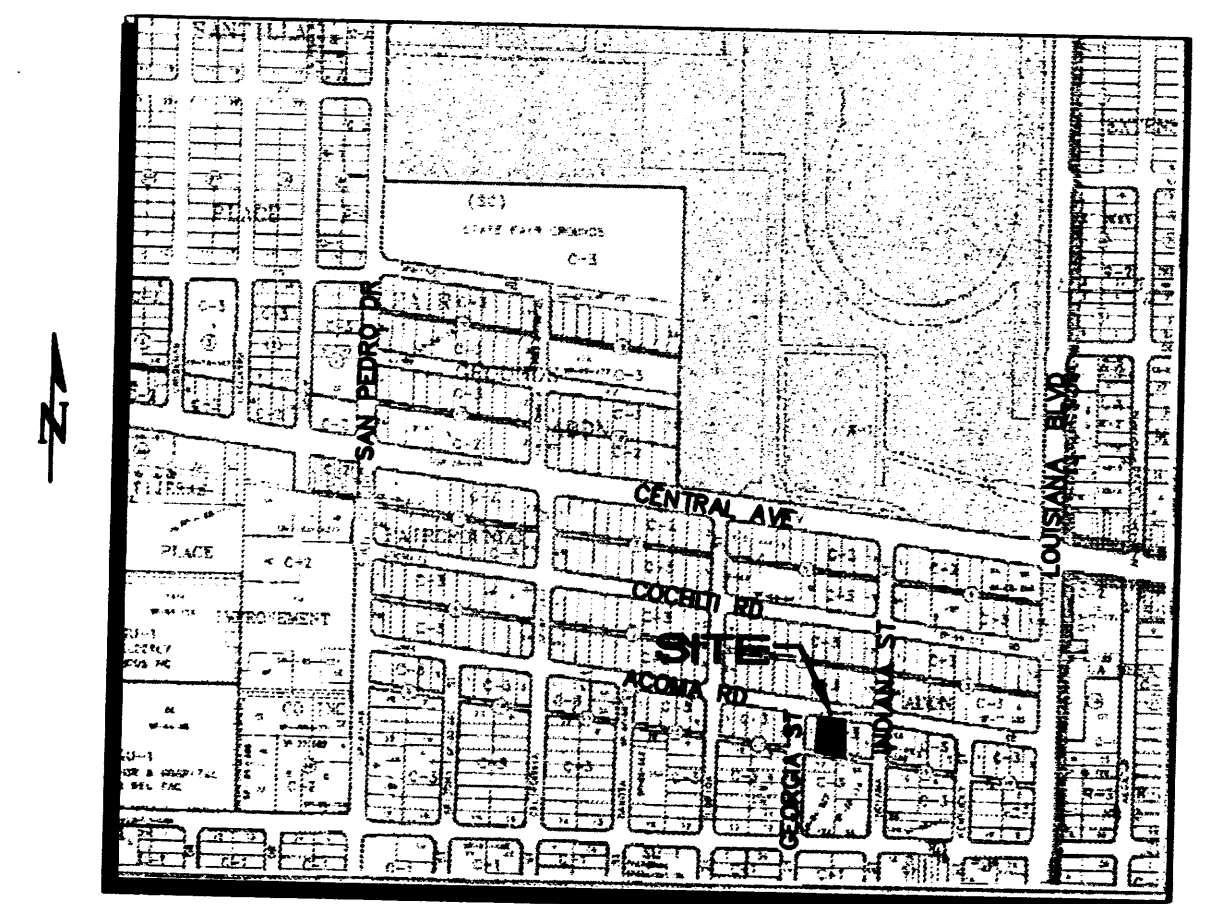
SCALE:
1"=10'



PANEL 354

1"=500'±

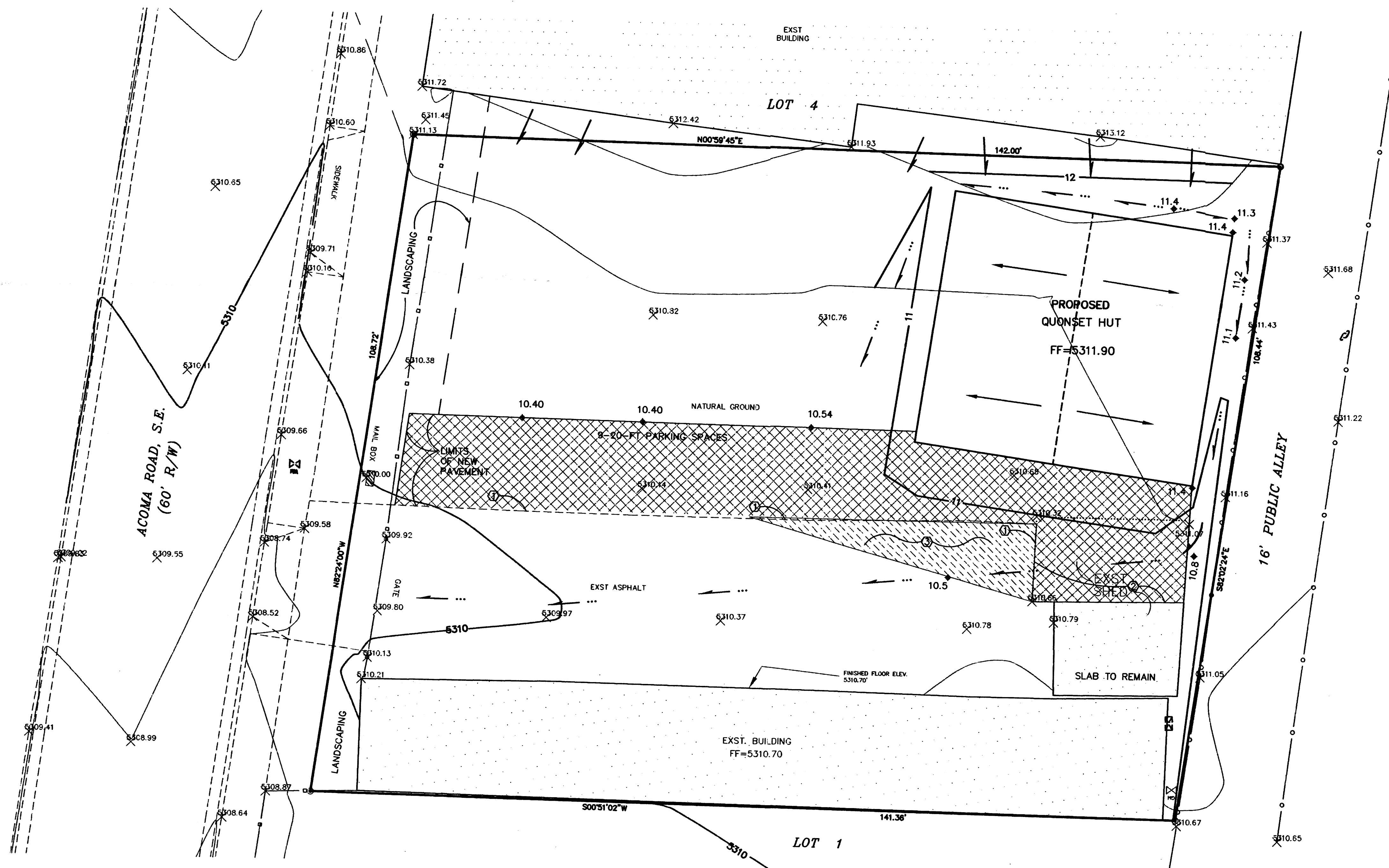
FEMA FIRM MAP



K-18

VICINITY MAP

1"=750'±



LEGAL DESCRIPTION: LOT 3A, BLOCK 14, FAIRGROUNDS ADDITION

AREA: 0.35 ACRES

BENCHMARK: ACS MONUMENT "11-K-19A", ELEV= 5217.302

FLOOD ZONE DESIGNATION: THIS SITE LIES WITHIN ZONE X IN A FLOOD PLAIN AS SHOWN ON PANEL 354 OF 825 OF THE FEMA FLOOD INSURANCE RATE MAPS DATED SEPTEMBER 20, 1996. THE WATER DEPTH IN A 100-YR STORM IS ONE FOOT.

EXISTING CONDITIONS: THIS IS A COMMERCIAL SITE THAT IS BOUNDED BY ACOMA ROAD ON THE NORTH, A PUBLIC ALLEY ON THE SOUTH AND DEVELOPED LOTS ON THE WEST AND EAST. THE SITE SLOPES TOWARD ACOMA ROAD AT 1-2%. THERE IS ONE EXISTING BUILDING AND A SHED ON THE SITE, ALONG WITH A PAVED AREA.

EXISTING HYDROLOGY CALCULATIONS:
Precipitation Zone: 3

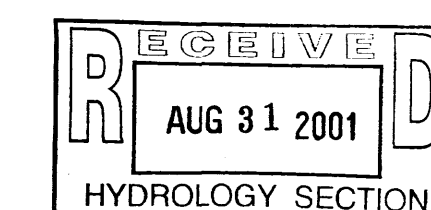
Land Treatment: 0.35 Acres (58% Type C, 42% D)
 $Q_{100} = 0.20 \times (3.45) + 0.15 \times (5.02) = 1.4 \text{ CFS}$

PROPOSED CONDITIONS: THE IMPROVEMENTS ON THE SITE INCLUDE A 1900 SF QUONSET HUT BUILDING AND ADDITIONAL PARKING. THE STORM WATER WILL CONTINUE TO FLOW IN THE HISTORICAL PATTERNS ONTO ACOMA ROAD. NO ON-SITE PONDING EXISTS ON OTHER DEVELOPMENTS IN THIS AREA. THIS IS AN INFILL SITE.

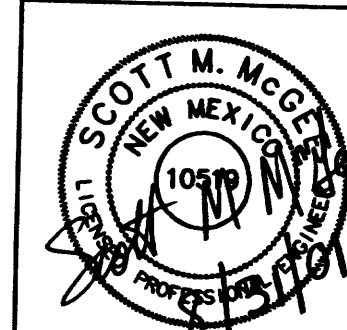
PROPOSED HYDROLOGY CALCULATIONS:
Precipitation Zone: 3

Land Treatment: 0.35 Acres (2% B, 34% Type C, 64% D)
 $Q_{100} = 0.01 \times (2.60) + 0.12 \times (3.45) + 0.22 \times (5.02) = 1.6 \text{ CFS}$

SUMMARY
THERE IS A 14% INCREASE IN RUNOFF AFTER THE DEVELOPMENT OF THE SITE--0.2 CFS. THESE FLOWS WILL CONTINUE IN THE HISTORICAL PATTERN AND BE DISCHARGED ONTO ACOMA ROAD.



LOT 3A, BLOCK 14,
FAIRGROUNDS ADDITION
GRADING & DRAINAGE PLAN



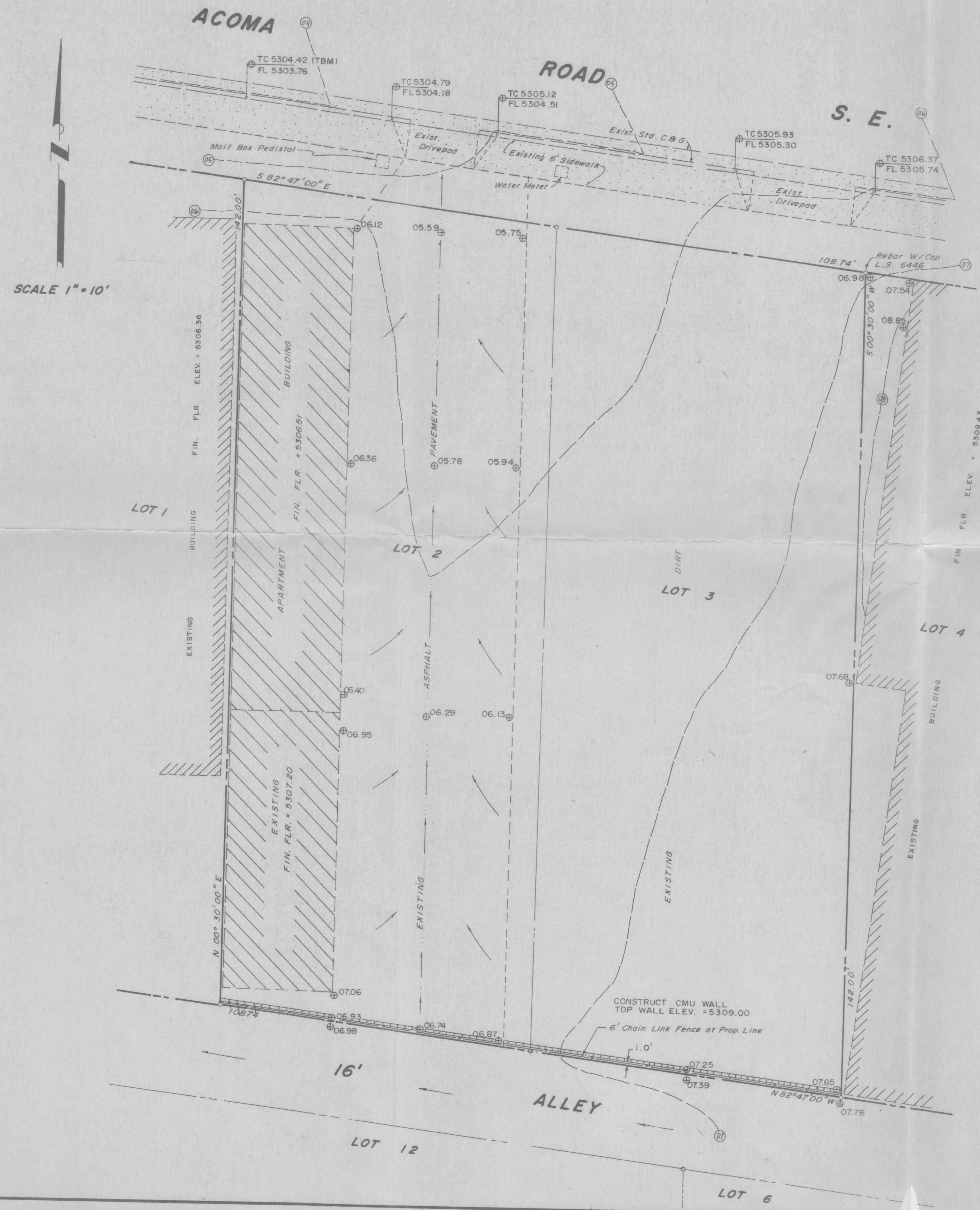
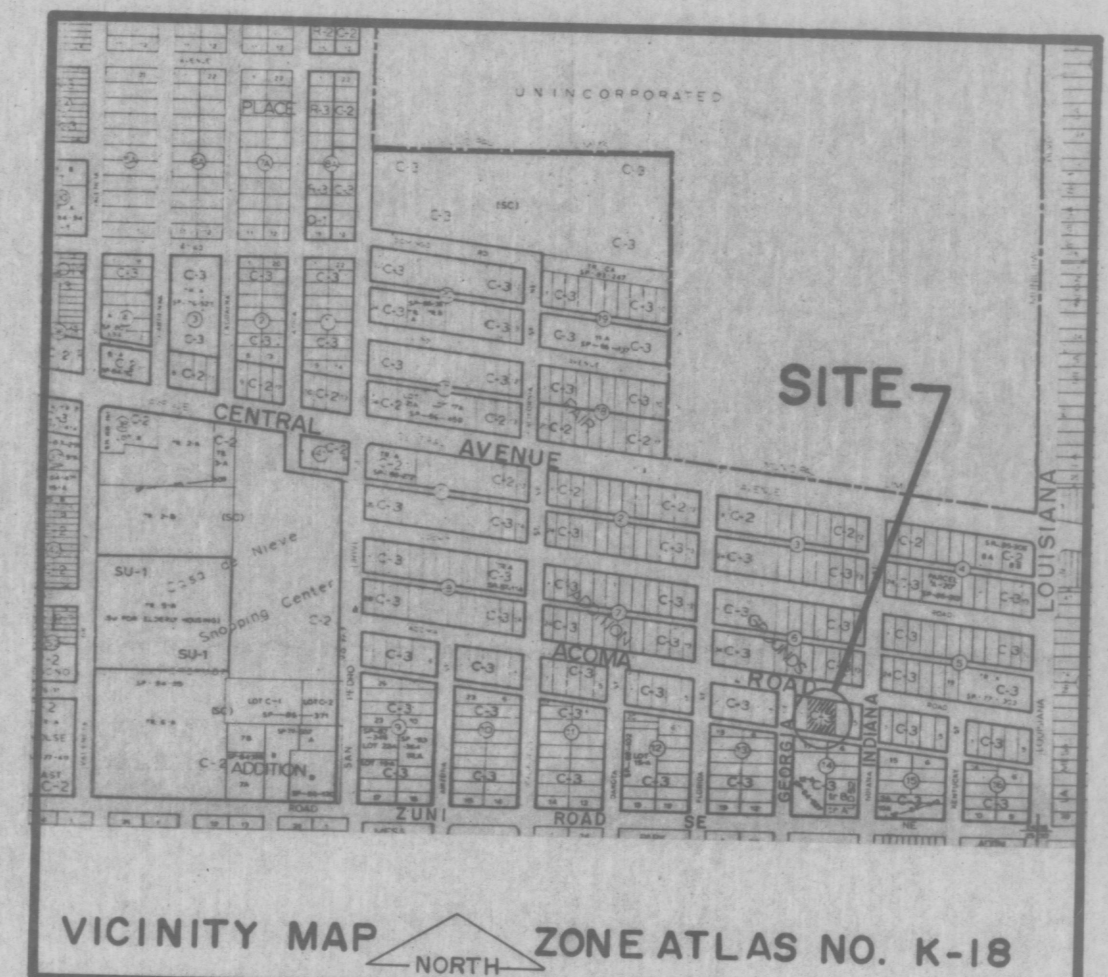
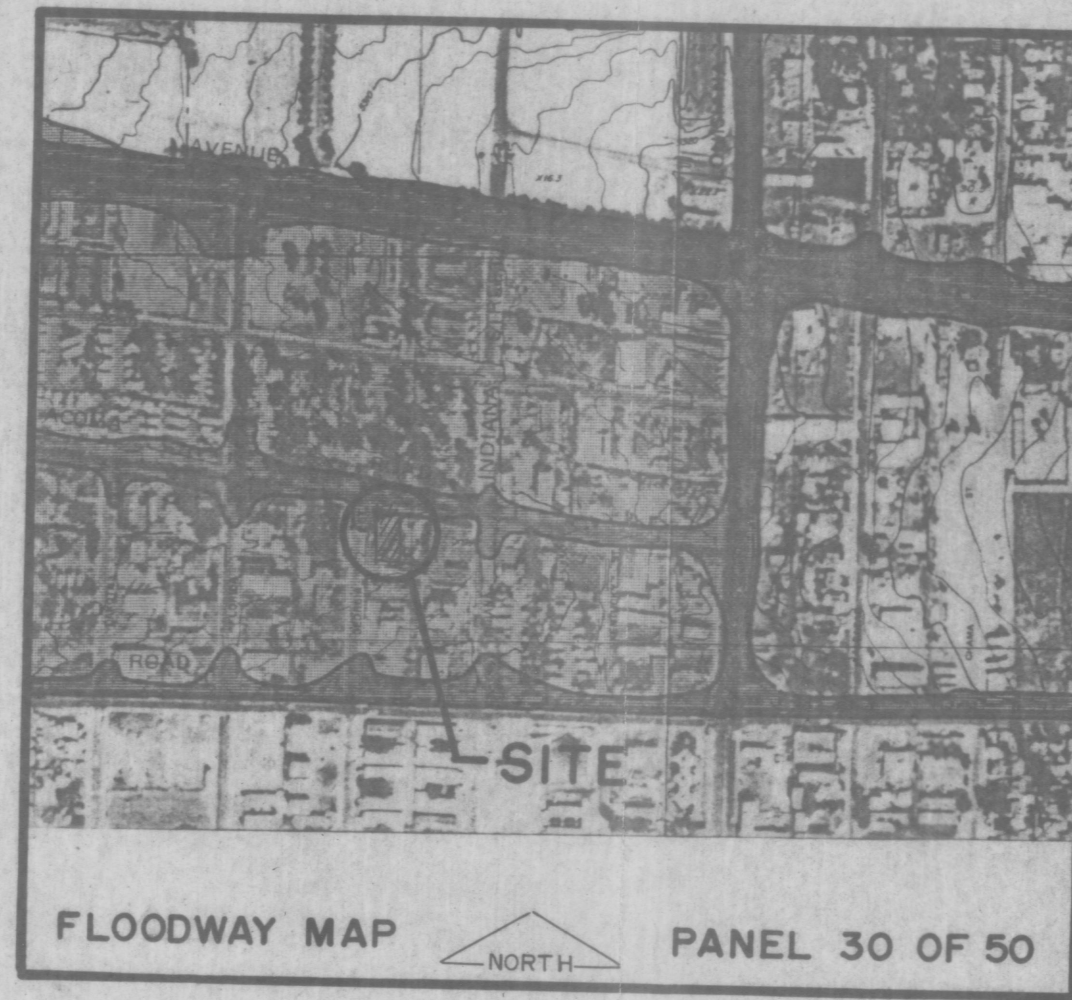
ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico

188GRD.DWGaw 8/31/01

SHEET 1 OF 1

LEGEND:

EXISTING	NEW	DESCRIPTION
—○—	—○—	CONTOUR
⊕	⊕	SPOT ELEVATION
—	—	SWALE
—	—	SHEET FLOW
—	—	PROPERTY LINE
	TA	TOP OF ASPHALT
	TC	TOP OF CONCRETE
	FL	FLOW LINE



PURPOSE OF PLAN:
THE PURPOSE OF THIS PLAN IS TO SHOW AS-CONSTRUCTED CONDITIONS, WHICH ARE DIFFERENT FROM THE ORIGINAL DRAINAGE PLAN, AS REQUIRED FOR ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

EXISTING CONDITIONS:
THE SITE IS LOCATED ON THE SOUTH SIDE OF ACOMA ROAD SE BETWEEN GEORGIA AND INDIANA STREETS. AN ALLEY IS ADJACENT TO THE SITE ON THE SOUTH. THE ALLEY IS PAVED WITH ASPHALT BUT THE PAVEMENT APPEARS TO BE SUBSTANDARD. THE SITE WAS INITIALLY DESIGNED FOR MINI-WAREHOUSES (SEE HYDROLOGY FILE NO. K18/D27). SUBSEQUENTLY, THE USE WAS CHANGED TO APARTMENTS AND ONE APARTMENT BUILDING SURROUNDED BY ASPHALT PAVEMENT NOW OCCUPIES THE WESTERLY HALF OF THE SITE. THE EASTERLY HALF OF THE SITE IS UNDEVELOPED.

FLOOD ZONE:
THE F.I.R.M. MAP, PANEL 30 OF 50, SHOWS ACOMA ROAD ADJACENT TO THE SITE IS AN AO (1) FLOOD ZONE. THEREFORE, IN ACCORDANCE WITH CITY OF ALBUQUERQUE POLICY THE FINISH FLOOR ELEVATION OF THE BUILDING MUST BE AT LEAST 2.0 FEET ABOVE THE STREET FLOWLINE AT A POINT EVEN WITH THE UPSTREAM EDGE OF THE BUILDING.

SOIL INFORMATION:
(REFER TO SOIL SURVEY OF BERNALILLO COUNTY, JUNE 1977.) SOIL IS WeB, WINK-EMBUDO COMPLEX, 0 TO 5 PERCENT SLOPES, HYDROLOGIC SOIL GROUP "B".

RAINFALL, 100-YEAR, 6-HOUR:
REFER TO D.P.M., PLATE 22.2 D-1.) $R_6 = 2.35$ INCHES.

TIME OF CONCENTRATION:
(USE TEN (10) MINUTES, MINIMUM TIME OF CONCENTRATION.)

RAINFALL INTENSITY:
(REFER TO D.P.M., PLATE 22.2 D-2.) $I = (6\text{-HOUR RAIN})^{0.84} (T_c)^{-0.51}$
 $I = (2.35) (6.84) (10)^{-0.51} = 4.97$ IN./HR.

SITE IMPERVIOUSNESS:

TYPE OF SURFACE	"C"	"CN"	DIRECT RUNOFF	AREA (SF)	AREA X "C"
BUILDING ROOF	0.90	98	2.15	2520	2268
ASPHALT PAVEMENT	0.95	98	2.15	4947	4700
LANDSCAPING	0.25	61	0.25	200	50
UNPAVED	0.40	82	0.90	7668	3067
TOTALS				15335	10085

WEIGHTED "C" = $10085 / 15335 = 0.66$

PEAK RUNOFF:
(USE RATIONAL METHOD, $Q_{100} = CIA$, WHERE A = AREA OF SITE IN ACRES.)
 $Q_{100} = 0.66 \times 4.97 (15335 / 43560) = 1.15$ CFS
 $Q_{10} = 0.657 \times 1.15 = 0.76$ CFS

VOLUME, 6-HOUR:
(USE SCS METHOD, $V_{100} = (\text{AREA} \times \text{DIRECT RUNOFF}) / 12$
 $V_{100} = (2.15 \times 7667 + 0.25 \times 200 + 0.90 \times 7668) / 12 = 1953$ CF
 $V_{10} = 0.657 \times 1953 = 1283$ CF

BENCH MARK:
7-K19 ACS BRASS CAP SET IN CONCRETE CYLINDER IN THE GROUND STAMPED "7-K19, 1974 ACS", 65.5 FT. EAST OF CENTERLINE ON LOUISIANA BOULEVARD AND 25.7 FT. SOUTH OF CENTERLINE ON THE WESTBOUND LANES OF CENTRAL AVENUE. ELEVATION = 5323.308 FEET.

TEMPORARY BENCH MARK (TBM):
TOP OF CURB ADJACENT TO NW CORNER OF SITE. THE TBM IS MARKED BY A LINE CUT IN THE TOP OF THE CONCRETE CURB AND A 2" SQUARE AND LETTERS "TBM" PAINTED WITH BLACK PAINT. ELEVATION 5304.42 FEET.



**AS-CONSTRUCTED
GRADING AND DRAINAGE PLAN
ALBERT MARTINEZ APARTMENTS
6808 ACOMA ROAD, S.E.
ALBUQUERQUE, NEW MEXICO**

