



LEEDSHILL · HERKENHOFF, INC.

Albuquerque · San Diego · Santa Fe
ENGINEERING COMPUTATIONS

NAME OF PROJECT

LA AMISTAD SENIOR GAZERO

COMPUTED BY:

KJ

CHECKED BY:

JOB NUMBER

96002.14

SHEET NUMBER

1 OF 7

DATE:

9 JAN 96

CALCULATE ^{NET} CHANGE IN PEAK RUNOFF FROM
10YR & 100YR STORMS, ACCORDING TO
CITY OF ALBUQUERQUE'S DEVELOPMENT PROCESS
MANUAL, CHAPTER 22.2.

FROM TABLE A-1. PRECIPITATION ZONES

LA AMISTAD AREA (LOMAS & EDITH BLVDS.)

ZONE 2 - BETWEEN THE RIO GRANDE
AND SAN MATEO.

LAND TREATMENT AREAS TAKEN FROM
AUTO CAD DRAWING OF THE SITE

EXISTING CONDITIONS

D - IMPERVIOUS AREA - 3055 SQUARE FEET = 0.07 ACRES

B - LAWN AREA - 2322 SQUARE FEET = 0.05 ACRES

PROPOSED CONDITIONS

D - IMPERVIOUS AREA - 4072 SQUARE FEET = 0.09 ACRES

B - LAWN AREA - 1305 SQUARE FEET = 0.03 ACRES

ALSO FROM COA DPM TABLE A-10, PEAK INTENSITY
AND TABLE A-11, RATIONAL METHOD COEFFICIENT, C

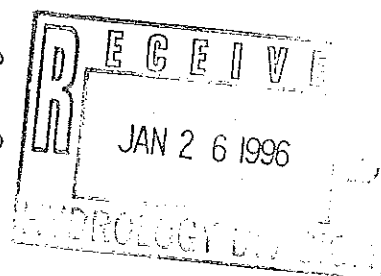
ZONE 2

$I_{10YR} = 3.41 \text{ IN/HR}$

$I_{100YR} = 5.05 \text{ IN/HR}$

$C_{D10YR} = 0.92$ $C_{D100YR} = 0.93$

$C_{B10YR} = 0.28$ $C_{B100YR} = 0.45$





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USING THE RATIONAL METHOD TO CALCULATE
PEAK DISCHARGE: $Q = CIA$

EXISTING CONDITIONS:

$$Q_{10} = (0.28)(3.41)(0.05) + (0.92)(3.41)(0.07)$$

$$\underline{Q_{10} = 0.27 \text{ cfs}}$$

$$Q_{100} = (0.45)(5.05)(0.05) + (0.93)(5.05)(0.07)$$

$$\underline{Q_{100} = 0.44 \text{ cfs}}$$

PROPOSED CONDITIONS

$$Q_{10} = (0.28)(3.41)(0.03) + (0.92)(3.41)(0.09)$$

$$\underline{Q_{10} = 0.31 \text{ cfs}}$$

$$Q_{100} = (0.45)(5.05)(0.03) + (0.93)(5.05)(0.09)$$

$$\underline{Q_{100} = 0.49 \text{ cfs}}$$

SUMMARY TABLE

INLET AT DRIVEWAY ON
FRUIT STREET

EXISTING CONDITIONS	$Q_{100} = 0.44 \text{ cfs}$	$Q_{10} = 0.27 \text{ cfs}$
PROPOSED CONDITIONS	$Q_{100} = 0.49 \text{ cfs}$	$Q_{10} = 0.31 \text{ cfs}$



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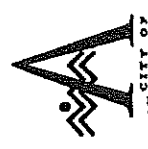
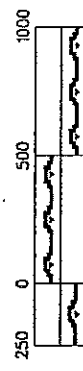
IN SUMMARY;

THIS SITE DRAINS TO A STORM INLET IN FRUIT AVE.
(SEE GRADING PLAN FOR LOCATION.)

THE ^{NET} CHANGE IN PEAK DISCHARGE IS
SO SMALL (LESS THAN 0.05 cfs) THAT IT
CAN BE CONSIDERED NEGLIGIBLE.

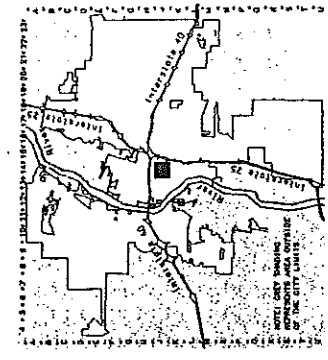
THE PIPE FOR THIS SECTION OF THE STORM
DRAIN SYSTEM IS 30" DIAMETER, SO IT CAN
HANDLE THE INCREASE IN FLOW.

GRAPHIC SCALE IN FEET



CITY OF ALBUQUERQUE
Planning Department
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Map Amended through September 01, 1995

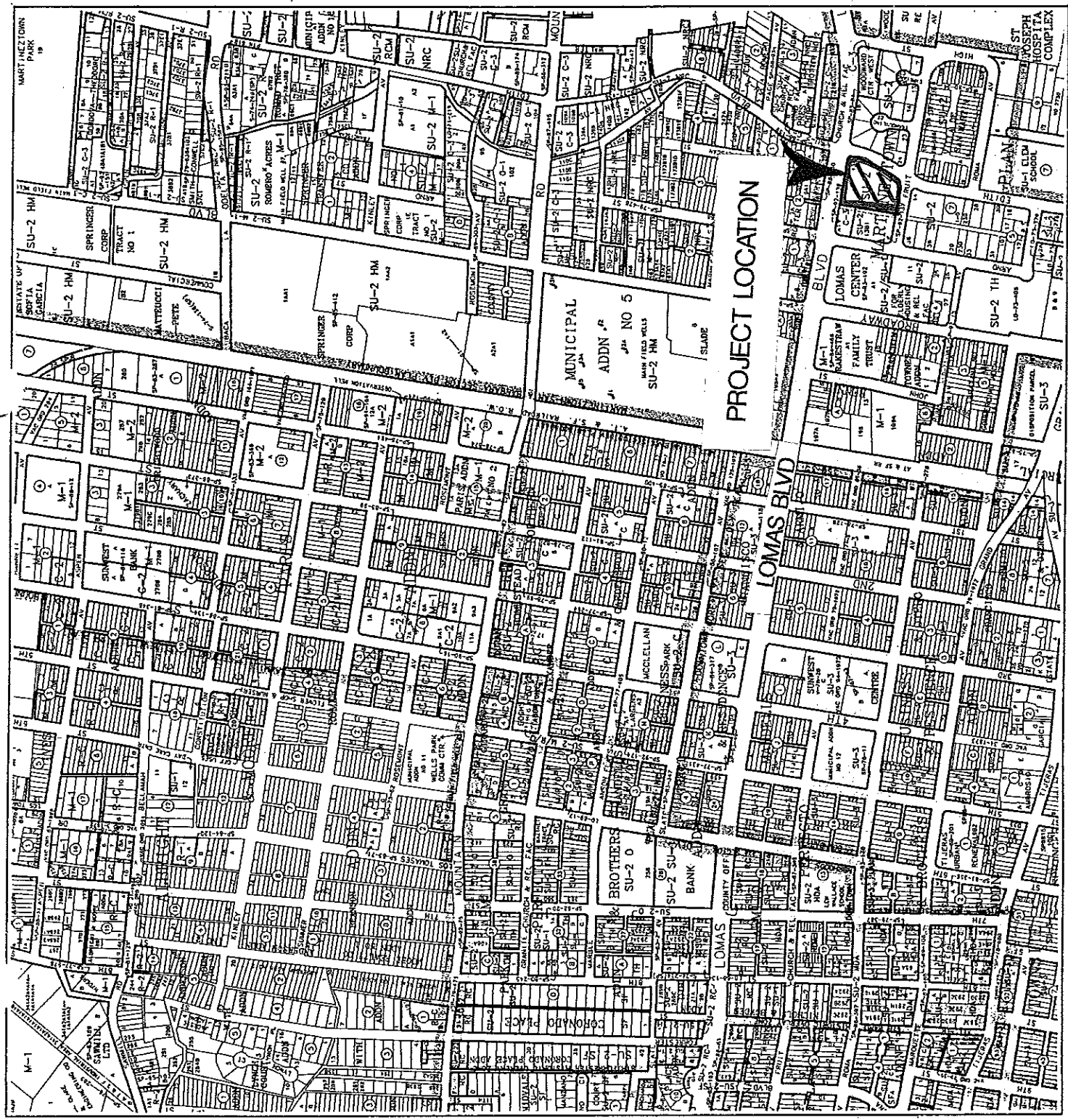


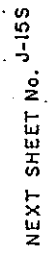
LEGAL DESCRIPTION

TOWNSHIP
 RANGE
 SECTION 17

UNIFORM PROPERTY CODE
 1-04-065

J-14-Z





63 24 RCP 51 00 04 10 002-70		26 60 RCP 51 00 15 08 12 62		5618 DETAIL		DRAINAGE FACILITIES MAP													
LEGEND		NOTES		REVISIONS		MAP GRID													
STORM SEWER LINE MANHOLE MANHOLE NUMBER 5112 STORM INLET NUMBER, TYPE, GRATES		1. MANHOLE IDENTIFICATION REQUIRES BOTH THE MAP GRID & MANHOLE NO 2. MANHOLE NUMBERS CARRIED FROM ADJACENT MAPS HAVE THE MAP GRID SHOWN.		<table><thead><tr><th>DATE</th><th>REMARKS</th></tr></thead><tbody><tr><td>1-28-88</td><td>26-8830-17 Lg</td></tr><tr><td>5-2-88</td><td>56-6676-97 Lg</td></tr><tr><td>5-18-88 2.6</td><td>(11-371-311) 68-585-18 (10-002-70)</td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table>		DATE	REMARKS	1-28-88	26-8830-17 Lg	5-2-88	56-6676-97 Lg	5-18-88 2.6	(11-371-311) 68-585-18 (10-002-70)					J-14S	
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Base Flood Elevation in Feet
Where Uniform Within Zone**

(EL 987)

Elevation Reference Mark

SHEET LOOP 7 RM7 x
• M1.5

River Mile

**Referenced to the National Geodetic Vertical Datum of 1929

*EXPLANATION OF ZONE DESIGNATIONS

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A0	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.

For adjoining map panels, see separately printed Index To Map Panels.

INITIAL IDENTIFICATION:

AUGUST 20, 1976

FLOOD HAZARD BOUNDARY MAP REVISIONS:

FEBRUARY 14, 1978
DECEMBER 4, 1979

FLOOD INSURANCE RATE MAP EFFECTIVE:

OCTOBER 14, 1983

FLOOD INSURANCE RATE MAP REVISIONS:

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1-40

ZONE A0
(DEPTH 1)

PROJECT LOCATION

LOMAS BLVD

EDITH BLVD