

DRAINAGE INFORMATION SHEET

BUILDING ADDITION TO
PROJECT TITLE: Lin's Oriental Restaurant ZONE ATLAS/DRNG. FILE #: J-21 / D28

LEGAL DESCRIPTION: Lot G, Block 38A, Princess Jeanne Park Addition

CITY ADDRESS: 1035 Juan Tabo, NE

ENGINEERING FIRM: Lovelady & Associates CONTACT: Frank Lovelady

ADDRESS: 7408 Morrow Ave. NE 87110 PHONE: 883-7973

OWNER: Lin's Oriental Restaurant CONTACT: Yuki Sakamoto

ADDRESS: 1035 Juan Tabo, NE PHONE: 2925438

ARCHITECT: Rick Bennett CONTACT: Rick Bennett

ADDRESS: 1118 Park SW PHONE: 242-1859

SURVEYOR: Lovelady & Assoc. CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

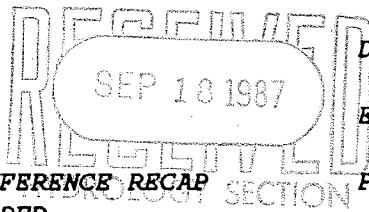
ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

X YES DRB NO. _____

NO EPC NO. _____

X COPY OF CONFERENCE RECAP SHEET PROVIDED PROJECT NO. _____



TYPE OF SUBMITTAL:

CHECK TYPE OF APPROVAL SOUGHT:

_____ DRAINAGE REPORT

_____ SKETCH PLAT APPROVAL

X DRAINAGE PLAN

_____ PRELIMINARY PLAT APPROVAL

_____ CONCEPTUAL GRADING & DRAIN. PLAN

_____ SITE DEVELOPMENT PLAN APPROVAL

_____ GRADING PLAN

_____ FINAL PLAT APPROVAL

_____ EROSION CONTROL PLAN

_____ BUILDING PERMIT APPROVAL

_____ ENGINEER'S CERTIFICATION

_____ FOUNDATION PERMIT APPROVAL

_____ CERTIFICATE OF OCCUPANCY APPROVAL

_____ ROUGH GRADING PERMIT APPROVAL

DATE SUBMITTED: September 18, 1987

_____ GRADING/PAVING PERMIT APPROVAL

BY: _____

OTHER _____ (SPECIFY)

Frank D. Lovelady, P.E.



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Ken Schultz
Mayor

UTILITY DEVELOPMENT DIVISION
HYDROLOGY SECTION
(505) 768-2650

September 25, 1987

Frank Lovelady, P.E.
Lovelady & Associates
7408 Morrow, NE
Albuquerque, New Mexico 87110

RE: DRAINAGE PLAN FOR BUILDING ADDITION TO LIN'S ORIENTAL RESTAURANT
(J-21/D28) ENGINEER'S STAMP DATED SEPTEMBER 18, 1987

Dear Frank:

Based on the information provided on your submittal of September 18, 1987, the above referenced plan is approved for Building Permit.

Please attach a copy of this plan to the construction sets prior to sign-off by Hydrology.

If I can be of further assistance, please feel free to call me at 768-2650.

Cordially,

Bernie J. Montoya, C.E.
Engineering Assistant

BJM/bsj

PUBLIC WORKS DEPARTMENT

Walter Nickerson, P.E., City Engineer

ENGINEERING GROUP

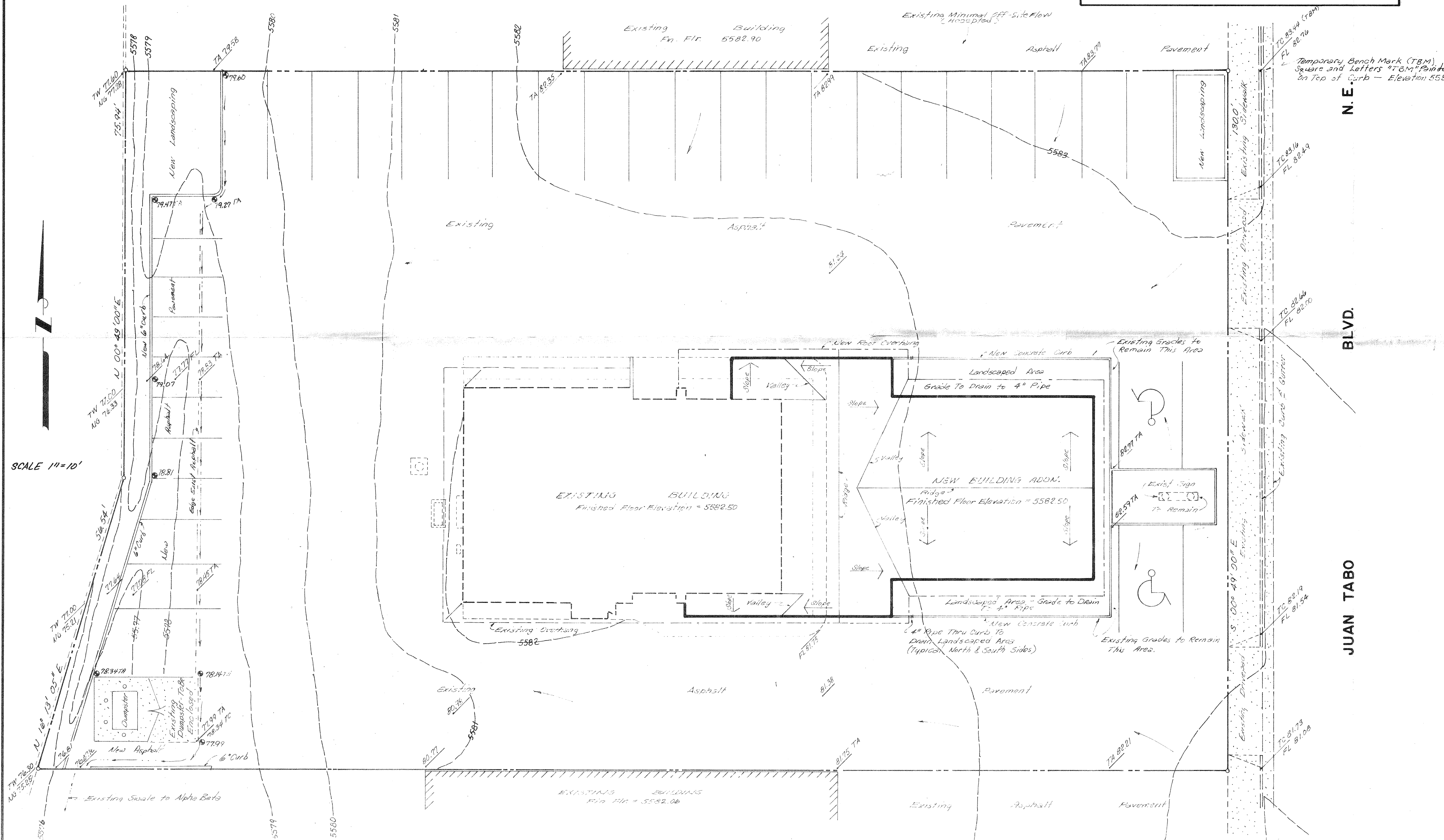
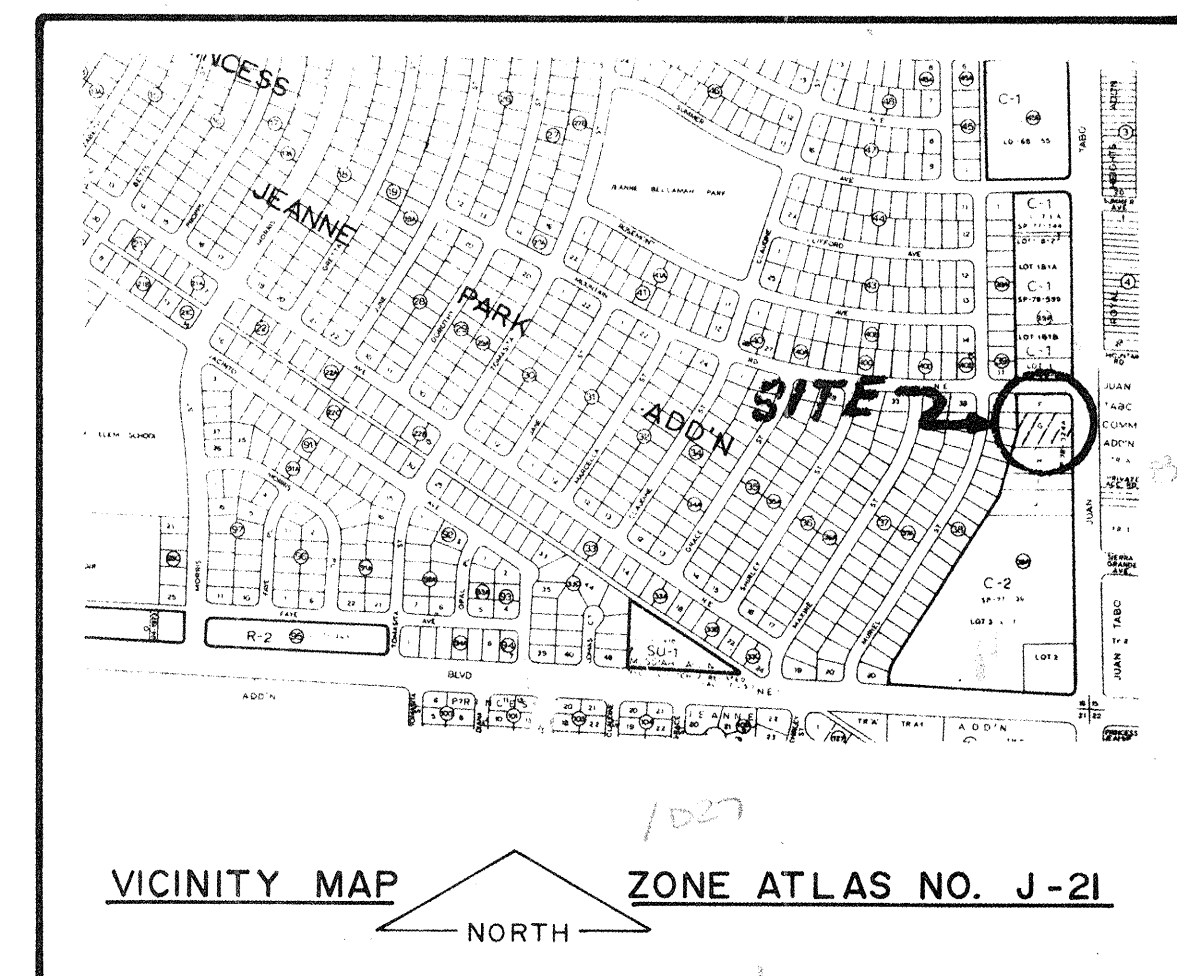
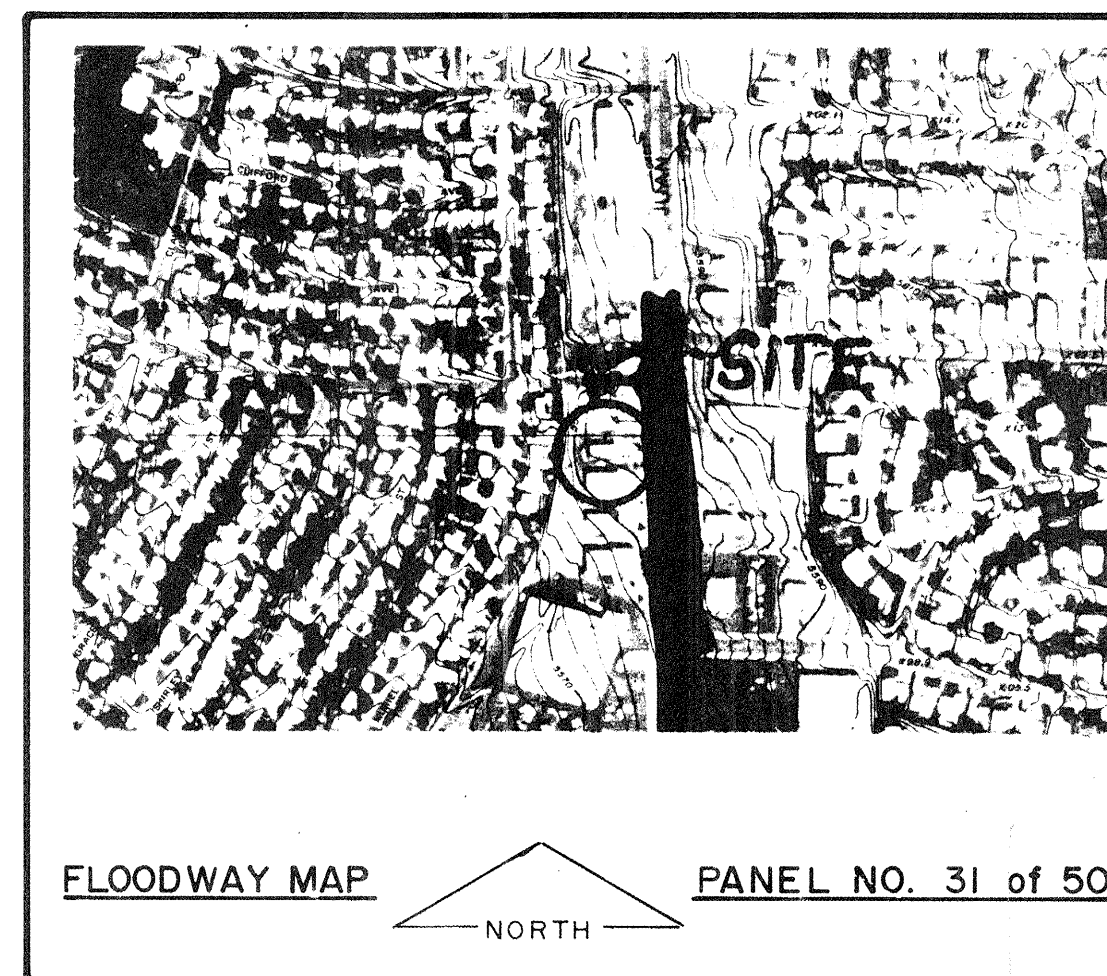
Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER

LEGEND:		
EXISTING	NEW	DESCRIPTION
		CONTOUR
		SPOT ELEVATION
		SHEET FLOW
		SWALE
		TOP OF CURB
		TA TOP OF ASPHALT
		FL FLOWLINE

- PRE-DESIGN CONFERENCE FINDINGS:
1. DRAINAGE PLAN PER D.P.N. PRIOR TO BUILDING PERMIT RELEASE.
 2. BUILDING OVER EXISTING ASPHALT.
 3. RUNOFF TO TAKE EXISTING HISTORICAL ROUTE.

- DRAINAGE COMMENTS:
1. THE SITE IS ADJACENT TO AN EXISTING 40' FLOOD ZONE, DEPTH OF 1.0 FOOT.
 2. THE PROPOSED DEVELOPMENT IS AN ADDITION TO AN EXISTING RESTAURANT. THE FINISHED FLOOR OF THE NEW ADDITION MUST MATCH THE FINISHED FLOOR OF THE EXISTING BUILDING.
 3. THE NEW ADDITION IS TO BE CONSTRUCTED WHERE ASPHALT PAVEMENT NOW EXISTS.
 4. RUNOFF FROM THE SITE WILL NOT INCREASE AFTER DEVELOPMENT. THE RUNOFF WILL CONTINUE TO TAKE THE HISTORIC ROUTE ALONG THE WEST SIDE OF LOTS H, I, J AND 3-E-1.



DRAINAGE CALCULATIONS

I. REFERENCES:

- A. CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL (DPM) VOLUME 2, DESIGN CRITERIA, CHAPTER 22.
- B. FLOODWAY MAP, PANEL 31 OF 50, (FEMA), OCTOBER 14, 1983.
- C. SOIL SURVEY OF BERNALILLO COUNTY, NEW MEXICO, U.S. SOIL CONSERVATION SERVICE, JUNE, 1977.

II. ON-SITE RUNOFF CHARACTERISTICS:

A. UNDEVELOPED RUNOFF COEFFICIENT:

TYPE OF SURFACE	AREA	"C" VALUE	AREA ("C")
STREETS, DRIVES, WALKS	22297	0.95	21182
ROOFS	3600	0.90	3240
LAWNS & LANDSCAPING	350	0.25	88
UNDEVELOPED	1230	0.40	500
TOTAL AREA	27497 SF		0.63 AC
WEIGHTED "C" VALUE = 25010 / 27497 = 0.91			
PERCENT IMPERVIOUS = 94%			

B. DEVELOPED RUNOFF COEFFICIENT:

TYPE OF SURFACE	AREA	"C" VALUE	AREA ("C")
STREETS, DRIVES, WALKS	20659	0.95	19626
ROOFS	5856	0.90	5270
LAWNS & LANDSCAPING	982	0.25	246
UNDEVELOPED			
TOTAL AREA	27497		25142
WEIGHTED "C" VALUE = 25142 / 27497 = 0.91			
PERCENT IMPERVIOUS = 96%			

C. RAINFALL, 100-YR., 6-HR.: (REF. I.A., PLATE 22.2 D-1) $P_6 = 2.45$ INCHES

D. TIME OF CONCENTRATION: TEN MINUTES

E. RAINFALL INTENSITY, I (REF. I.A., PLATE 22.2 D-2) $I = 4.6 \text{ IN/H}$

F. SOIL TYPE (REF. I.C., SHEET NO. 35) SOIL IS TIGERAS GRAVELLY FINE SANDY LOAM, GROUP "B".

G. RUNOFF CURVE NUMBER (CN) (REF. I.A., PLATE 22.2 C-2)

UNDEVELOPED CN: PAVEMENT, 98; LANDSCAPING, 61, UNDEVELOPED, 82.

WEIGHTED CN = $(25897 \times 98 + 350 \times 61 + 1250 \times 82) / 27497 = 96$

DEVELOPED CN: $(26515 \times 98 + 982 \times 61) / 27497 = 97$

H. DIRECT RUNOFF, Q_d , INCHES (REF. I.A., PL. 22.2 C-4)

UNDEVELOPED $Q_d = 2.00$ IN. DEVELOPED $Q_d = 2.10$ IN.

III. ON-SITE PEAK DISCHARGE BY RATIONAL EQUATION:

A. EXISTING CONDITIONS:

$Q_{100} = 0.91 \times 5.18 \times 0.63 = 2.97$ CFS

$Q_{10} = 0.657 \times 2.97 = 1.95$ CFS

B. DEVELOPED CONDITIONS:

$Q_{100} = 0.91 \times 5.18 \times 0.63 = 2.97$ CFS

$Q_{10} = 0.657 \times 2.97 = 1.95$ CFS

IV. ON-SITE VOLUME BY S.C.S. METHOD:

A. EXISTING CONDITIONS:

$V_{100} = \text{AREA} (Q_d/12) = 27497 (2.0/12) = 4583$ CF

$V_{10} = 0.657 \times 4583 = 3011$ CF

B. DEVELOPED CONDITIONS:

$V_{100} = \text{AREA} (Q_d/12) = 27497 (2.10/12) = 4812$ CF

$V_{10} = 0.657 \times 4812 = 3161$ CF

LEGAL DESCRIPTION:

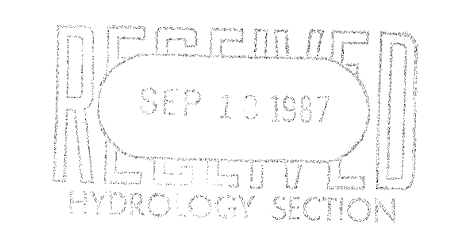
LOT G, BLOCK 38A, PRINCESS JEANNE PARK ADDITION.

BENCH MARK:

STATION 5-J22A LOCATED AT THE INTERSECTION OF JUAN TABO BLVD. N.E. AND MOUNTAIN ROAD N.E. A SQUARE CHISEL IN TOP OF CONCRETE CURB AT THE SSE RETURN, ELEVATION 5585.052 FEET.

EROSION CONTROL PLAN:

THE SITE IS PRESENTLY PAVED AND THERE WILL BE LITTLE OR NO GRADING EXCEPT WHEN THE BUILDING FOUNDATION IS BEING EXCAVATED. THEREFORE, EROSION CONTROL MEASURES ARE NOT REQUIRED.



GRADING AND DRAINAGE PLAN
FOR BUILDING ADDITION TO
LIN'S ORIENTAL RESTAURANT
1035 JUAN TABO BLVD.
ALBUQUERQUE, NEW MEXICO

David D. Goodbody
9/18/87