

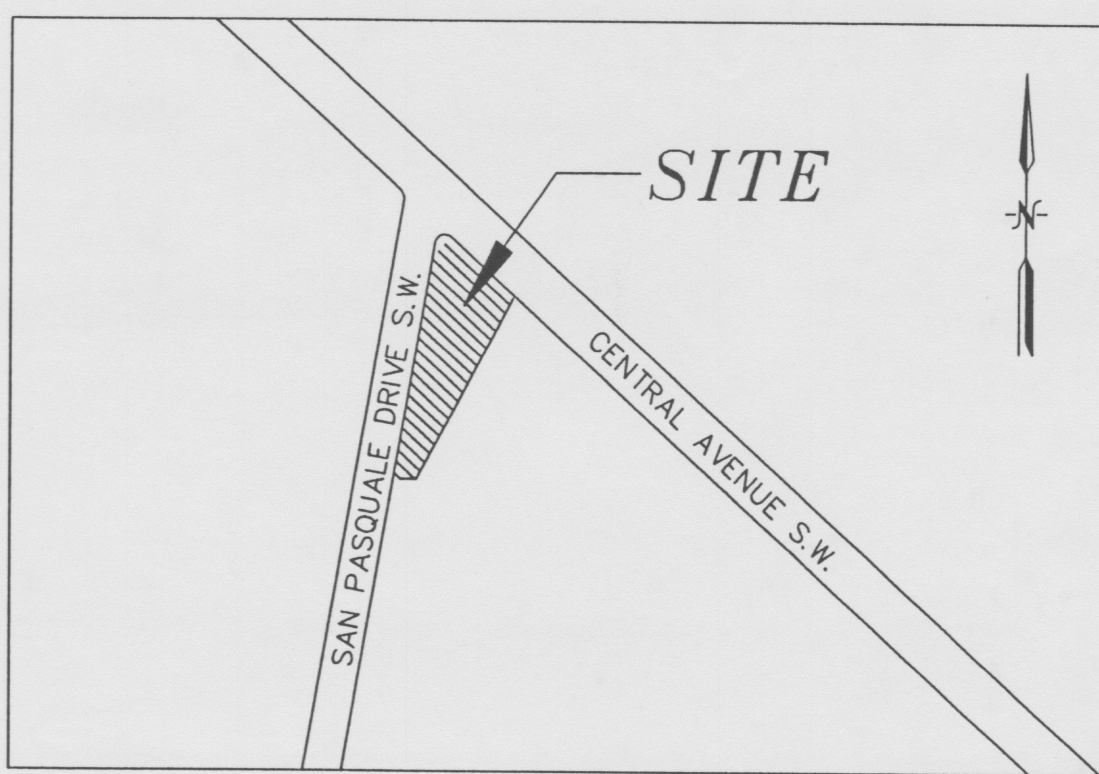
TOPOGRAPHIC SURVEY PREPARED BY:
HARRIS SURVEYING, INC.
2412-D MONROE STREET N.E. PHONE (505) 889-8056
ALBUQUERQUE, NEW MEXICO 87110 FAX (505) 889-8645

GENERAL NOTES:

- 1: ADD 4900 TO SPOT ELEVATIONS TO SHOW TRUE ELEVATION.
- 2: CONTOUR INTERVAL IS ONE (1) FOOT.
- 3: ELEVATIONS SHOWN ARE BASED ON AN ALBUQUERQUE STATION BRASS CAP STAMPED "13-J13", ELEVATION OF 4953.44.
- 4: UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT INFORMATION PROVIDED BY THE CLIENT. UTILITIES SHOWN HEREON, WHETHER INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR EXACT LOCATION AND/ OR DEPTH PRIOR TO EXCAVATION OR DESIGN CONSIDERATIONS.
- 5: THIS IS NOT A BOUNDARY SURVEY. BEARINGS AND DISTANCES SHOWN ARE FOR REFERENCE ONLY.

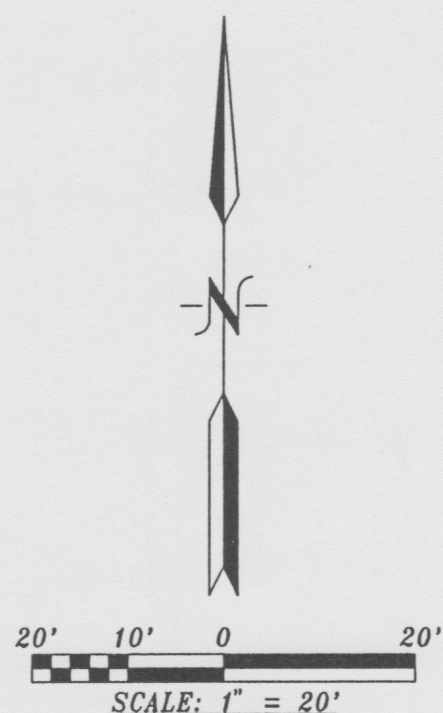
LEGAL DESCRIPTION:

TRACT 142 OF THE M.R.G.C.D. MAP NO. 38.



VICINITY MAP

J-13



TEMPORARY BENCH MARK (TBM)
NE CORNER EXISTING WATER METER
ELEVATION = 4950.18



DRAINAGE CALCULATIONS

EXISTING CONDITIONS:

The site is located at the intersection of Central Avenue and San Pasquale, SW. Both streets are paved with standard curb and gutter. There are storm drain inlets at the SSE and ESE curb returns but little or no site drainage reaches these inlets. The site has a retail building with asphalt parking and landscaping. Site runoff drains into San Pasquale through existing driveways. The site is not located in a flood plain. A flood plain exists in San Pasquale south of the site.

PROPOSED CONDITIONS:

It is proposed to develop the site as shown on the plan with a small building addition, new driveways and additional landscaping. The building is to be constructed over an area that is now impervious so there is no increase in runoff generated by construction of the addition. The additional areas of landscaping will result in an overall decrease in the peak discharge rate for the site.

DRAINAGE CRITERIA:

The calculations shown on this plan were prepared in accordance with Section 22.2, Hydrology, of the Development Process Manual, Volume 2, Design Criteria, for the City of Albuquerque, in cooperation with Bernalillo County, New Mexico and the Albuquerque Metropolitan Arroyo Flood Control Authority, January, 1993.

PRECIPITATION ZONE:

The site is east of the Rio Grande River but west of San Mateo Boulevard and is, therefore, in Precipitation Zone 2.

LAND TREATMENT AREAS, EXCESS PRECIPITATION AND UNIT PEAK DISCHARGE:

The peak discharge per acre and excess precipitation are shown for the four land treatments in Zone 2 in the table below, and the values shown are from the City of Albuquerque D.P.M. Also shown are the existing and proposed land treatment areas.

LAND TREATMENT	q(cfs/acre)		E (in)		Existing Site Areas		Developed Site Areas	
	100-yr.	10-yr.	100-yr.	10-yr.	%	Sq.Ft. Acres	%	Sq.Ft. Acres
A	1.56	0.38	0.53	0.13	00.0	0.000	00.0	0.000
B	2.28	0.95	0.78	0.28	8.2	1.004	12.0	2.664
C	3.24	1.71	1.13	0.52	00.0	0.000	00.0	0.000
D	4.70	3.14	2.12	1.34	91.8	21.316	88.0	19.456
Totals					100.0	22,120	100.0	22,120

WEIGHTED UNIT PEAK DISCHARGE VALUES:

EXISTING $q_w(100) = 0.082 \times 2.28 + 0.918 \times 4.70 = 4.50$ cfs/acre
 $q_w(10) = 0.082 \times 0.95 + 0.918 \times 3.14 = 2.96$ cfs/acre
DEVELOPED: $q_w(100) = 0.120 \times 2.28 + 0.880 \times 4.70 = 4.41$ cfs/acre
 $q_w(10) = 0.120 \times 0.95 + 0.880 \times 3.14 = 2.88$ cfs/acre

WEIGHTED EXCESS PRECIPITATION:

Existing $E_w(100) = 0.082 \times 0.78 + 0.918 \times 2.12 = 2.01$ in.
 $E_w(10) = 0.082 \times 0.28 + 0.918 \times 1.34 = 1.25$ in.
Developed $E_w(100) = 0.120 \times 0.78 + 0.880 \times 2.12 = 1.96$ in.
 $E_w(10) = 0.120 \times 0.28 + 0.880 \times 1.34 = 1.21$ in.

SUMMARY OF VOLUMES AND PEAK DISCHARGE RATES:

	V100	V10	Q100	Q10
EXISTING	3.705	2.304	2.29	1.36
DEVELOPED	3.613	2.230	2.10	1.46
DECREASE	92	74	0.19	0.10

EROSION CONTROL REQUIREMENTS:

The Contractor shall be responsible for compliance with the following:

1. No sediment-bearing water shall be allowed to discharge from the site during construction.
2. During grading operations and until the project has been completed, all adjacent property rights-of-way, and easements shall be protected from flooding by runoff from the site.
3. Should the contractor fail to prevent sediment-bearing water from entering public right-of-way, he shall promptly remove from the public right-of-way any and all sedimentation originating from the site.
4. Control of sediment-bearing waters will be accomplished by use of a compacted earth berm of adequate height. The berm shall be located along the downstream perimeter of the property.

CITY OF ALBUQUERQUE
DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY (S.O.19)
NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
2. ALL WORK DETAILED ON THIS PLAN TO BE PERFORMED UNDER CONTRACT, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986, AS UPDATED THROUGH REVISION NO. 6.
3. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, INC., 260-1990, FOR LOCATION FOR EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. THE ADDRESS OF THE PROPERTY SERVED IS 1920 CENTRAL AVENUE, S.W.

APPROVALS:

HYDROLOGY	NAME	DATE
INSPECTOR	NAME	DATE
CONSTRUCTION	NAME	DATE

SPASQUAL.DWG (12/19/95)



FRANK D. LOVELADY, P.E. 300 ALAMOSA ROAD NW ALBUQUERQUE, NEW MEXICO 87107 (505)345-2267			GRADING AND DRAINAGE PLAN BUILDING ADDITION FOR RIO GRANDE INDIAN TRADING CO. 1920 CENTRAL AVE. SW ALBUQUERQUE, NEW MEXICO			SHEET OF 1
Designed: FDL	Drawn: FDL	Checked: FDL	Scale: 1" = 20'	Date: DEC. 1995	Job No. 512	