HYDROLOGY K23/D2 2 PLANS

K23/D2

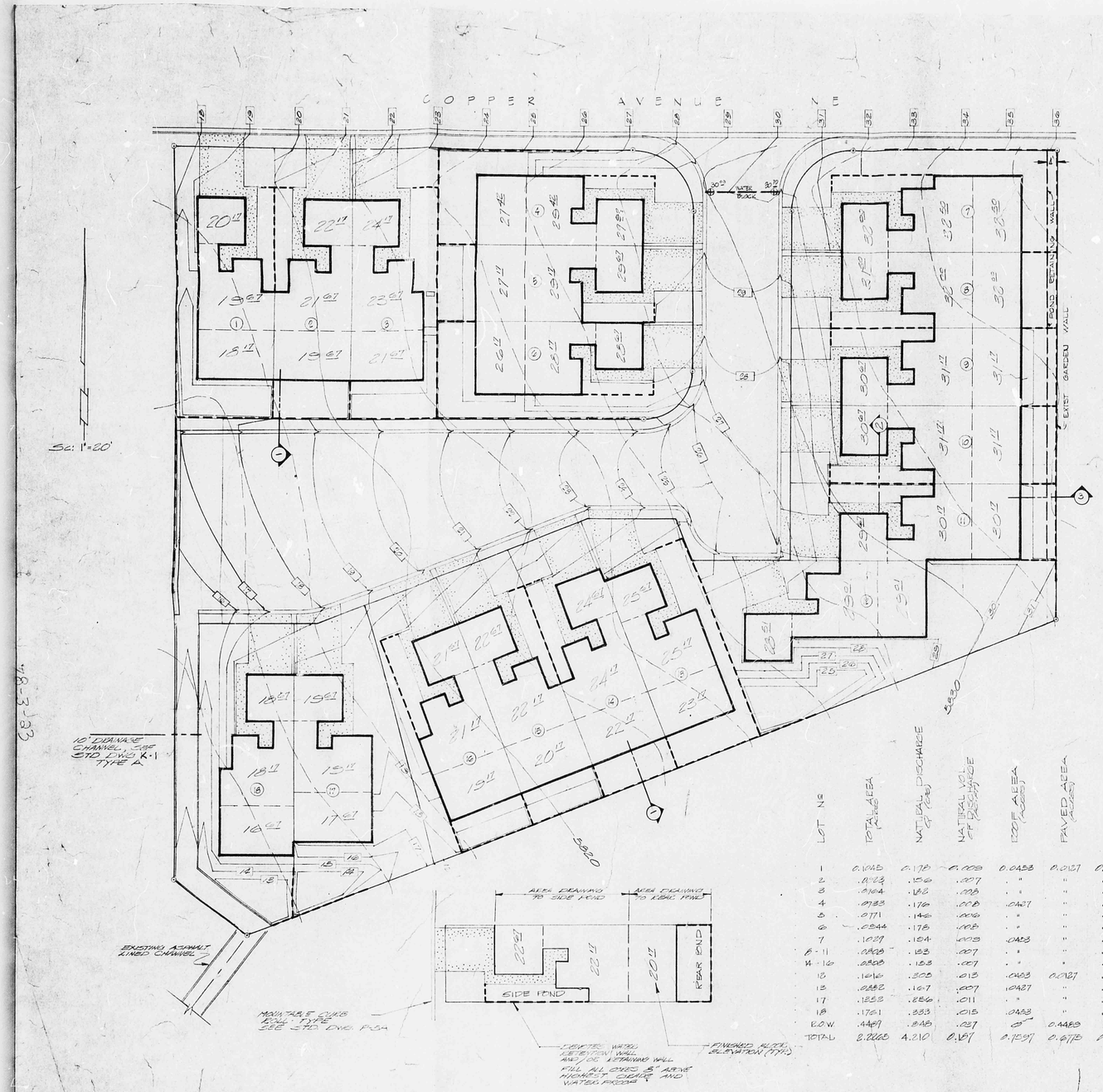
2 Plans

D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D

ENCHANTMENT ENGINEERING
1228 - F BUBANK N.E
ALBUQUERQUE N.M.

DRAINAGE STUDY

CHURCH SUBDIVISION
FOR
CITY VIEW ASSOCIATES



DRAINAGE CALCULATIONS

EXISTING CONDITIONS

RECENTLY, THERE IS AN EXISTING CONC. BLOCK WALL ON THE WEST WITH A CONCRETE CURB ALONG THE NORTH PREVENTS OUTSIDE RUNOFF FROM ENTERING THE SUBJECT PROPERTY IN THOSE DIRECTIONS. EXISTING CURB & GUTTER TO THE NORTH PREVENTS OUTSIDE RUNOFF FROM ENTERING THE PROPERTY FROM THE NORTH

TOTAL AREA UNDER CONSIDERATION	2.2265 ACRES
EXISTING SLOPE	5.2%
NATURAL RUNOFF COEFFICIENT	0.40
TIME OF CONCENTRATION	15 MINS
INTENSITY	4.72 IN/HR
100-YEAR, 6-HR, PRECIPITATION	8.5 IN.
RATE OF NATURAL RUNOFF	4.210 CFS
VOLUME OF NATURAL RUNOFF	0.187 AC-FT

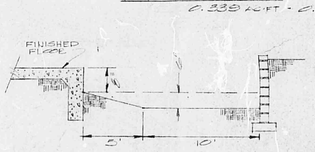
DEVELOPED CONDITIONS

TIME OF CONCENTRATION	6.10 MINS
INTENSITY	5.4 IN/HR

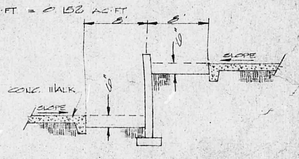
	A (AC)	C	A×C	RATE (CFS)	VOLUME (AC-FT)
PAVEMENT	0.6775	0.92	0.623	3.364	0.126
ROOF	0.7597	0.87	0.661	3.569	0.139
OPEN	0.7405	0.40	0.296	1.705	0.0685
				8.638	0.342

REQUIRED RETENTION

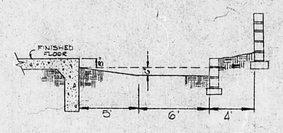
0.333 AC-FT - 0.187 AC-FT = 0.152 AC-FT



SECT 1 - TYP. REAR POND



SECT 2 - TYP. SIDE PONDS



SECT. 3 - TYP. REAR POND

LOT No	TOTAL AREA (ACRES)	NATURAL DISCHARGE (CFS)	NATURAL VOL. OF DISCHARGE	ROOF AREA (ACRES)	PAVED AREA (ACRES)	OPEN AREA (ACRES)	DEVELOPED C (ACRES)	DEVELOPED VOL. (AC-FT)	REQUIRED RETENTION (AC-FT)	REAR POND VOLUME (FT³)	SIDE POND VOL. (FT³)	TOTAL VOL. RETAINED (AC-FT)
1	0.1045	0.178	0.008	0.0458	0.0127	0.0432	0.616	0.015	0.006	305	148	0.010
2	.0963	.156	.007	"	"	.0810	.528	.012	.006	300	148	.008
3	.0964	.162	.008	"	"	.0851	.540	.013	.005	238	253	.012
4	.0983	.176	.008	.0427	"	.0406	.546	.012	.005	300	75	.009
5	.0971	.146	.006	"	"	.0544	.510	.012	.006	200	148	.005
6	.0944	.178	.008	"	"	.0417	.548	.012	.005	300	75	.009
7	.1029	.154	.008	.0428	"	.0471	.578	.014	.005	300	148	.010
8-11	.0808	.153	.007	"	"	.0255	.575	.013	.006	200	148	.008
14-16	.0808	.153	.007	"	"	.0255	.515	.013	.006	200	148	.008
12	.1016	.300	.013	.0463	0.0127	.1008	.500	.013	.006	455	—	.010
13	.0882	.167	.007	.0427	"	.0254	.524	.013	.006	238	253	.011
17	.1252	.256	.011	"	"	.0824	.456	.017	.006	250	—	.006
18	.1761	.333	.015	.0458	"	.1009	.531	.020	.005	243	—	.006
R.O.W.	.4489	.848	.037	0	0.4489	0	0.250	.086	.043	—	—	—
TOTAL	2.2265	4.210	0.187	0.1597	0.6778	0.7838	0.538	0.342	0.155			.155

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SHEET 6 OF 6

48-3-23

CITY OF ALBUQUERQUE
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C B A

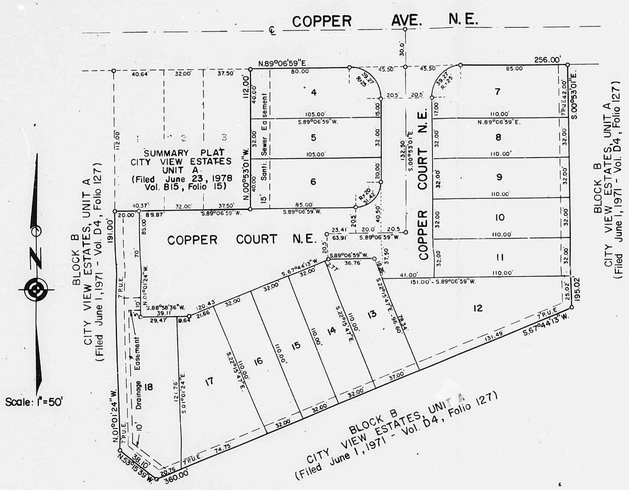
ENCHANTMENT ENGINEERING Inc.
1529-F EUBANK BLVD. N.E.
ALBUQUERQUE, N.M. Ph. 294-8859

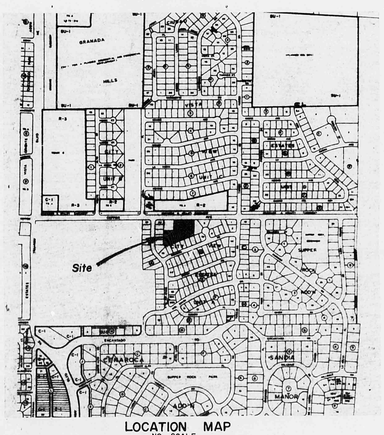
CHURCH SUBDIVISION

BEING A REPLAT OF TRACT "H"
OF
CITY VIEW ESTATES, UNIT A

WITHIN SECTION 23, T.10N., R.4E., N.M.P.M.
ALBUQUERQUE, NEW MEXICO

AUGUST 31, 1978





LOCATION MAP
NO SCALE

Zone Atlas Index : K-23-Z
Full width streets created = 0.060 mi.
Half width streets created = 0.0 mi.

LEGAL DESCRIPTION:

A certain parcel of land within Section 23, T10N, R4E, N.M.P.M., being designated as Tract H of the SUMMARY PLAT of Tract R-2, Block "B" of CITY VIEW ESTATES, UNIT A, plat of which was filed in the office of the County Clerk of Bernalillo County, New Mexico on June 23, 1978 and recorded in Volume B 15, Folio 15, and being more particularly described by metes and bounds as follows: BEGINNING at the Northwest corner of the herein described tract, said corner also being the Northeast corner of Lot 3 of the aforementioned SUMMARY PLAT, and from said beginning point running thence: N 89° 06' 59" E, 256.00 feet along the southerly right-of-way line of Copper Avenue, N. E.; thence S 00° 53' 01" E, 195.02 feet; thence S 67° 44' 13" W, 360.00 feet; thence N 53° 15' 59" W, 38.10 feet; thence N 01° 01' 24" W, 191.00 feet; thence N 89° 06' 59" E, 109.87 feet; thence N 00° 53' 01" W, 112.00 feet to the point of beginning and containing 1.9434 acres, more or less.

DEDICATION:

The subdivision of the above described Tract of Land is with the free consent and in accordance with the desires of the undersigned owner(s) and proprietor(s) thereof and said owner(s) and proprietor(s) do hereby dedicate the several thoroughfares shown hereon, together with easements for electric power, natural gas, telephone lines, drainage channels, and the rear Fifteen (15) feet of Lots Four (4), Five (5) and Six (6) for sanitary sewer, or as otherwise shown on the plat hereon, including the right of ingress and egress and the right to trim or remove interfering trees.

CITY VIEW ASSOCIATES

Vern C. Hagen
Vern C. Hagen

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO) ss

On this _____ day of _____, 19__, the foregoing instrument was acknowledged before me by Vern C. Hagen, a partner of City View Associates, a partnership.

_____ My commission expires _____
Notary Public

APPROVALS:

Water Resources Department Date	City Engineer Date
Traffic Engineer	City Surveyor
Planning Department	Parks & Recreation Department
Public Service Co. of New Mexico	Mountain Bell
Gas Co. of New Mexico	A. M. A. F. C. A., City of Albuquerque
Property Managment	

SURVEYOR'S CERTIFICATE

I, J. W. Bettis, under the laws of New Mexico, certify that I am a Registered Professional Engineer and Land Surveyor and that this Plat was prepared by me or under my supervision, shows all easements of record, meets the minimum requirements for monumentation and surveys of the Albuquerque Subdivision Ordinance, and is true and accurate to the best of my knowledge and belief.

J. W. Bettis, Reg., P.E. & L.S., #3441

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