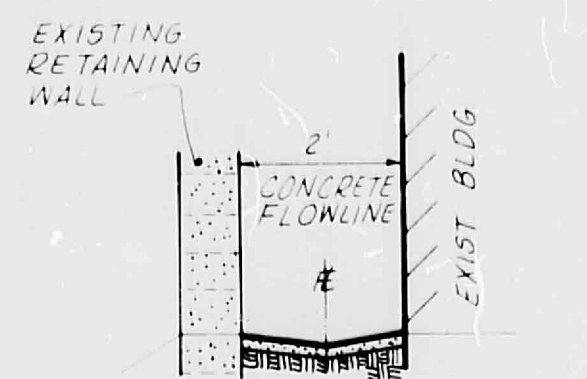
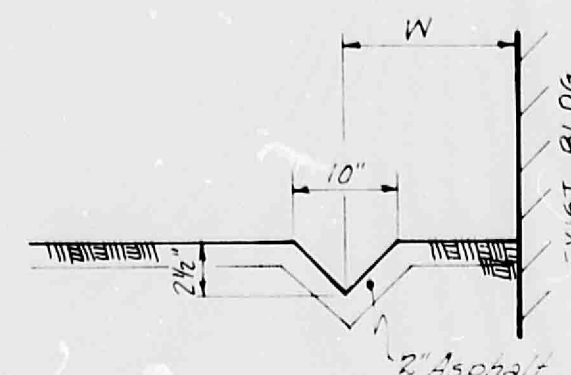


VICINITY MAP J-21



SECTION A-A
NO SCALE



Outlet Channel
SECTION B-B
NO SCALE

Req'd Pond Volume = 906 a.f.s.
Prop. Pond Volume = 1758 a.f.s.
• Max. depth = 19 ft.
The project as constructed will
drain in substantial compliance
with the approved drainage record.

Outlet Channel Profile		
Sta	Elev.	Depth
0+00	67.51	
0+25	67.00	
0+50	67.00	
0+75	66.90	
1+00	66.70	
1+25	66.45	
1+50	65.85	
1+75	65.00	

③ Access & Drainage Easement



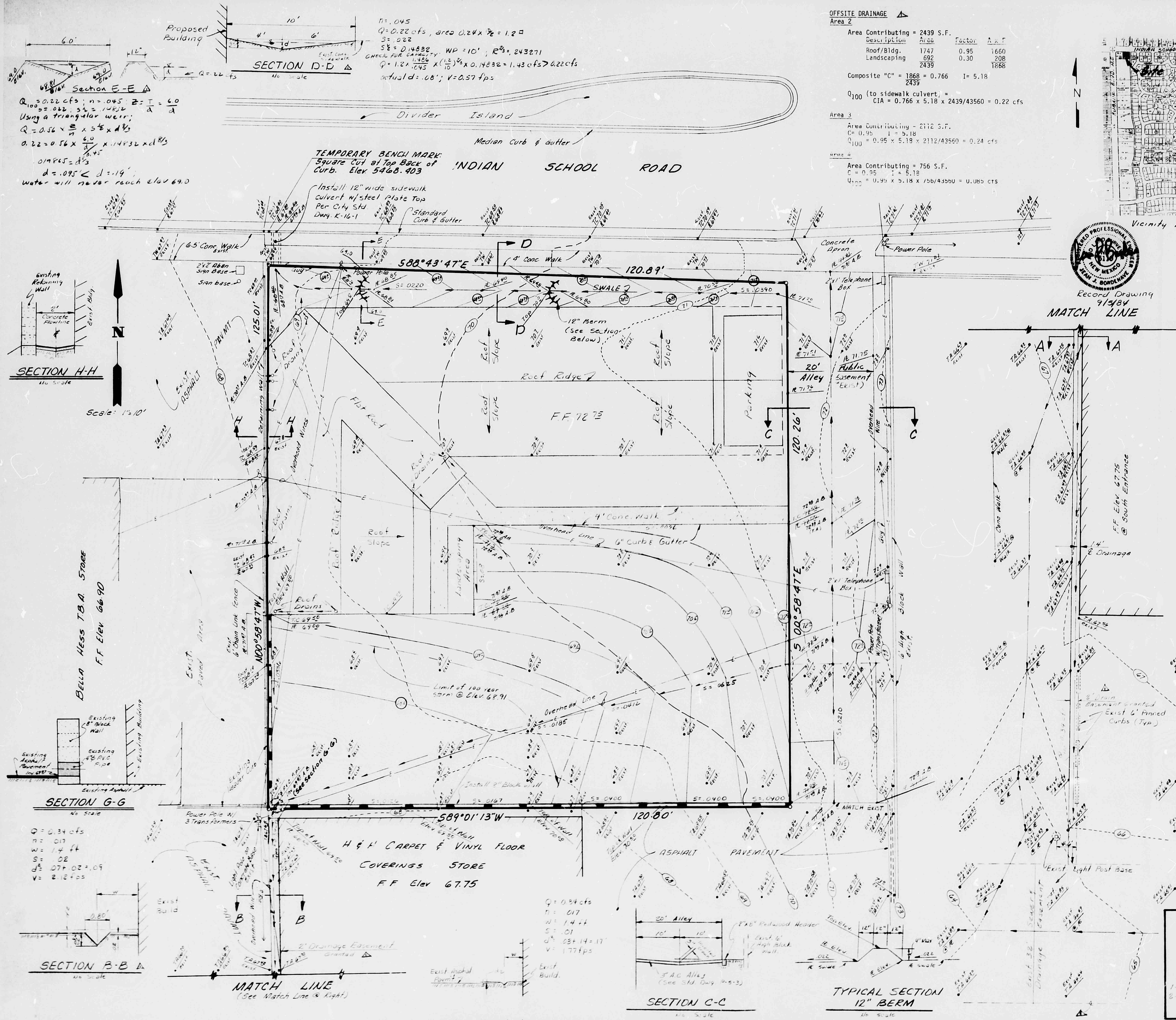
DMJM/ADAM, HAMLYN, ANDERSON
5700 HARPER DRIVE NE, SUITE 280
ALBUQUERQUE, NEW MEXICO 87109
(505)822-7955

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SEP 14 1984

J21/D18

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Engineers File No C4620-30-01.



OFFSITE DRAINAGE

Area 2

Area Contributing = 2439 S.F.

Description	Area	Factor	A x F
Roof/Bldg.	1747	0.95	1660
Landscaping	692	0.30	208
	2439		1868

Composite "C" = 1868 = 0.766 I = 5.18

Q_{100} (to sidewalk culvert) =
CIA = 0.766 x 5.18 x 2439/43560 = 0.22 cfs

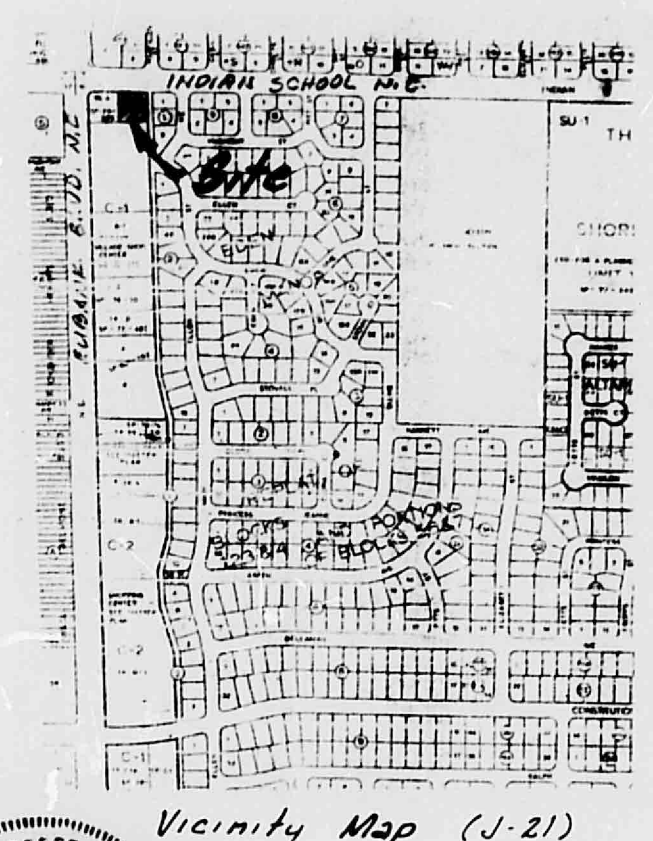
Area 3

Area Contributing = 2112 S.F.

Description	Area	Factor	A x F
Roof/Bldg.	1747	0.95	1660
Landscaping	365	0.30	109
	2112		2069

Composite "C" = 2069 = 0.84 I = 5.18

Q_{100} = 0.84 x 5.18 x 2112/43560 = 0.24 cfs



LEGAL DESCRIPTION:
Portion of Eubank Village Shopping Center, N.E. 1/4 Section 16, T10-N R4-E NMPN, Filed in the County Clerk's Office, Albuquerque, New Mexico on June 14, 1974, Volume 45, Folio 88.

BENCH MARK:
405 brass tablet stamped "10-J21, 1979" set flush with the median curb located 57' on Eubank Blvd. @ intersection of Eubank Blvd and Indian School Road.

NOTE:
A.B. indicates As Built.

ONSITE DRAINAGE:

Drainage Area Contributing = 11,720 SF = 0.269 Ac.

Finding Composite "C" Factor:

Description	Area	Factor	A x F
Pavement/Sidewalks	7258	0.95	6895
Roof/Bldg.	4214	0.95	4003
Landscaping	248		62
	11720 SF		10960 SF

Composite "C" = 10960 = 0.94 I = 5.18 for $t_c = 10$ mins.

$Q_{100} = CIA = 0.94 \times 5.18 \times 11,720 = 1,311$ cfs

Inflow Volume = 2245/2.45 x Rainfall = 918 x Rainfall

POND DATA:

Elev.	Area	Volume	Cum. Volume
68.10	9 SF	206 CF	206 CF
68.50	1020 SF	928 CF	1134 CF
69.00	2692 SF	1515 CF	2649 CF
69.50	3438 SF	1515 CF	2649 CF

PIPE DATA:
Using 1 - 4" diameter pipe

$Q = 0.6 \times A \times \sqrt{2gh}$ (outflow of pipe)

$= 0.6 \times 12 \times (2/12)^2 \times 8.025 \sqrt{h}$

$= 0.42 \sqrt{h}$

Time Mins.	Accum. Rainfall Inches	Runoff Ft. ³	Pond Elev. Ft.	Ave. Water Surface Elev. Ft.	Orifice Head Ft.	Orifice Flow Ft. ³	Total Flow Ft. ³	Pond Storage Volume Ft. ³
0			68.10					
5	0.140	129	68.36	68.23	0.05	28	28	90
10	0.314	288	68.50	68.43	0.16	50	78	210
15	0.696	639	68.71	68.60	0.33	72	150	489
20	1.164	1069	68.83	68.79	0.52	41	241	828
25	1.340	1230	68.90	68.89	0.62	99	340	840
30	1.465	1345	68.91	68.90	0.63	100	440	905
40	1.686	1548	68.91	68.91	0.64	202	642	906
50	1.882	1728	68.91	68.90	0.63	200	842	886
60	2.078	1908	68.89	68.89	0.62	198	1040	863
80	2.274	2088	68.80	68.84	0.57	381	1421	668
100	2.347	2155	68.65	68.72	0.45	338	1759	396

Max. $h = 0.64'$
(outflow) $Q = 0.42 \sqrt{h} = 0.42 \sqrt{0.64} = 0.34$ cfs

Max. Water Surface Elev. = 68.10 + 2/12 + 0.64 = 68.68, 91 occurred in 40 mins.

Max. Storage Volume = 906 Ft.³ < 2579 Ft.³ (available)

There is no offsite runoff contributing to the drainage area.

ADAM HAMLYN ANDERSON
Consulting Engineers Inc.
4065 MONTGOMERY BOULEVARD, N.E.
ALBUQUERQUE, NEW MEXICO 87109
505-861-1808

PORTION OF EUBANK VILLAGE SHOPPING CENTER

DRAINAGE PLAN

J21/D18

SEP 5 1984

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