ENCHANTMENT ENGINEERING Inc.
1829-F EUBANK BLVD. N.E.
ALBUQUERQUE, N.M. PH.294-9880

AUGUST 3, 1977

DRAINAGE CALCULATIONS

12205 MENAUL BOULEVARD, NE
LOT - 24-A
BLOCK - 7
BRENTWOOD HILLS
for H.G. PICKARD & ASSOCIATES

#22/D16B

UNDEVELOPED

AREA UNDER CONSIDERATION	.226 ACRE
EXISTING SLOPE	1.8%
NATURAL RUNOFF COEFFICIENT	.40
TIME OF CONCENTRATION	10 MINUTES
INTENSITY $\frac{189}{TC+25}$	5.4 IN/HR
100-YEAR, 6-HOUR PRECIPITATION	2.7 IN.
RATE OF NATURAL RUNOFF	.488 CFS
VOLUME OF NATURAL RUNOFF	.02 AC-FT.

DEVELOPED

	AREA (AC)	C=	A x C	RATE (CFS)	VOLUME (AC-FT)
FLAT ROOF	.085	.875	.0744	.402	.0167
PAVEMENT	.054	.92	.0497	.268	.0112
LANDSCAPING	.087	.40	.0348	.188	.0078
INTENSITY @ 5.4 IN/HR x	.1589	=	.858 CFS.	.0357 AC-FT	

REQUIRED RETENTION

.0357 AC.FT. (DEV.) - .02 AC.FT. (NAT.) = .0157 AC.FT. (684 CU.FT.)

TO BE RETAINED

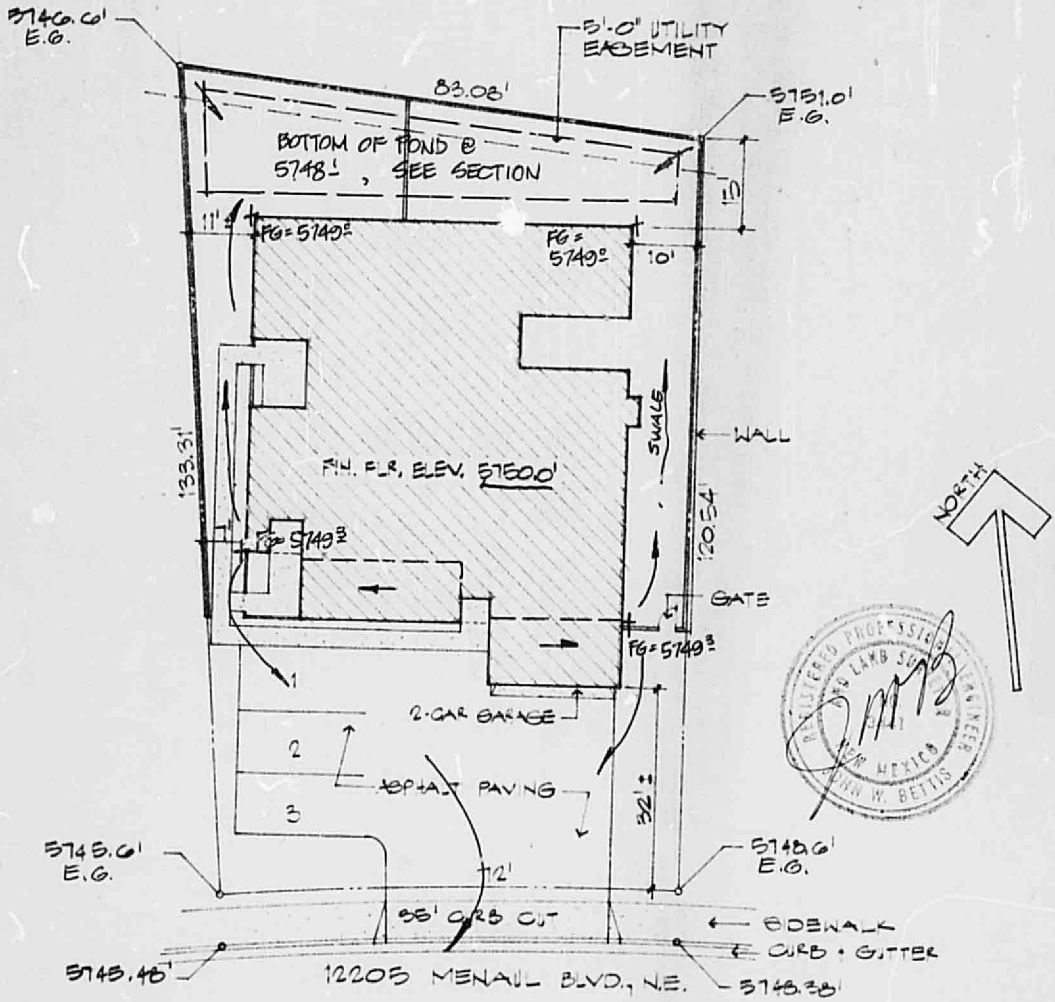
		VOLUME
ROOF	(88%)	.0147
PAVEMENT	(8%)	.0009
LANDSCAPING	(70%)	.0055
		.0211 AC.FT. (920 CU.FT.)

POND SECTION

SEE SITE PLAN FOR LOCATION & DEPTH

TO BE DISCHARGED

		RATE	VOLUME
ROOF	(12%)	.048	.0020
PAVEMENT	(92%)	.247	.0103
LANDSCAPING	(30%)	.056	.0023
		.351 CFS	.0146 AC-FT

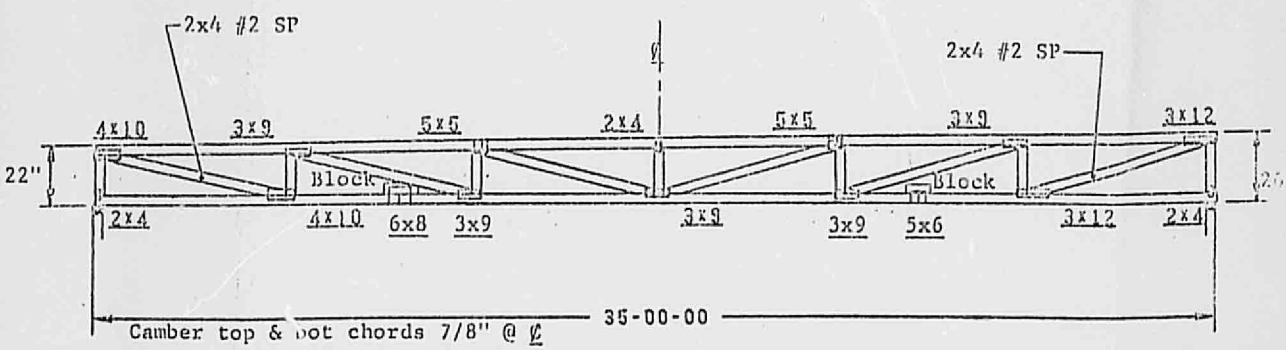


LOT 24-A, BLOCK 7
BRENTWOOD HILLS ADDITION
TO THE CITY OF
ALBUQUERQUE, NEW MEXICO

SITE PLAN

1" = 20.0'

Top Chord	:	2x4 #1 Dense Southern Pine	Plates designed in accordance with I.C.B.O.
Bot Chord	:	2x4 #1 Dense Southern Pine	Criteria
Webs	:	2x4 #3 Southern Pine	
		except as otherwise shown	



ALPINE TRUSS

Dr. By	GAG	Chkd. By	OAG
Date	12/30/76		
Loading			
Top Chord	30	psf	
Bot Chord	10	psf	
Tot. Load	40	psf	
Dur. Factor	15%		
Spacing	2'-0" O.C.		
Dwg.	A104.479		
Length	35'0"		
Depth	22" min.		
Type	FLAT		

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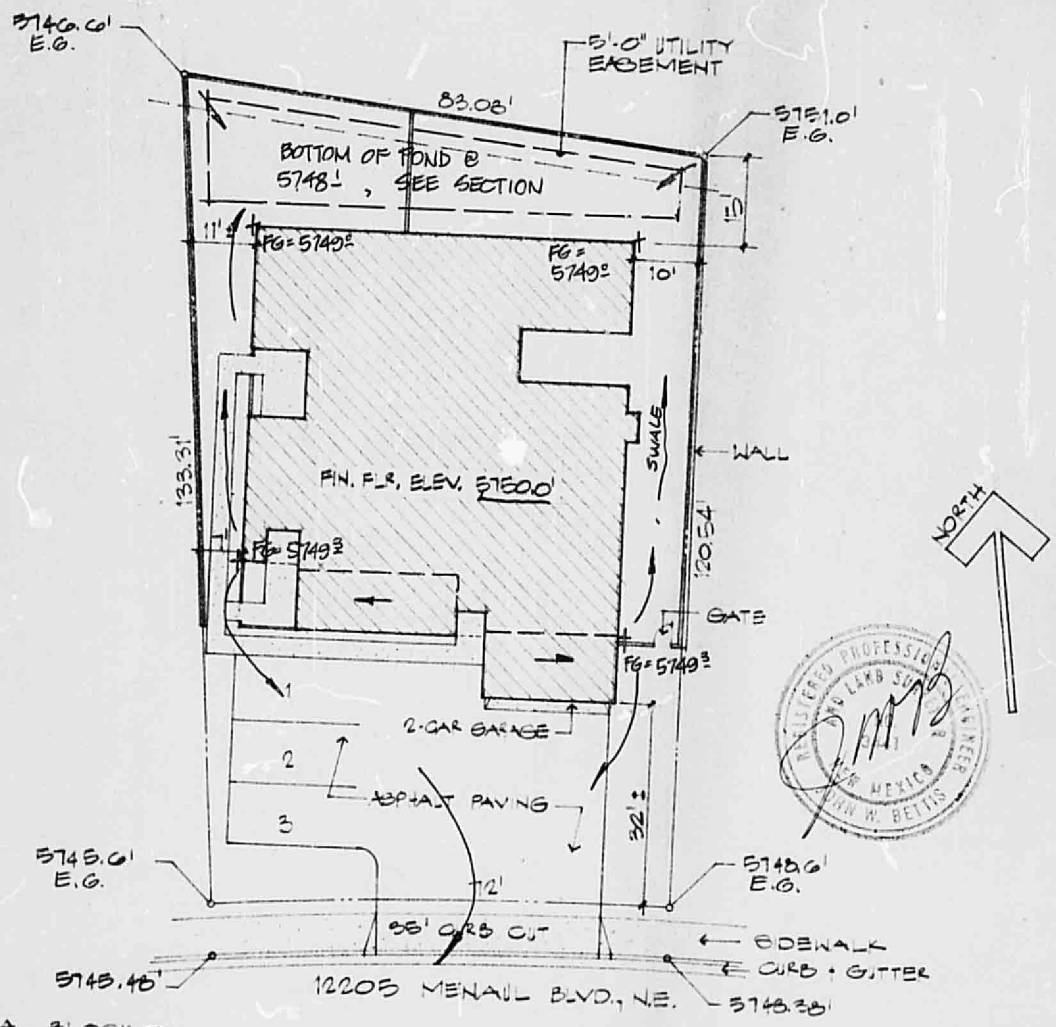

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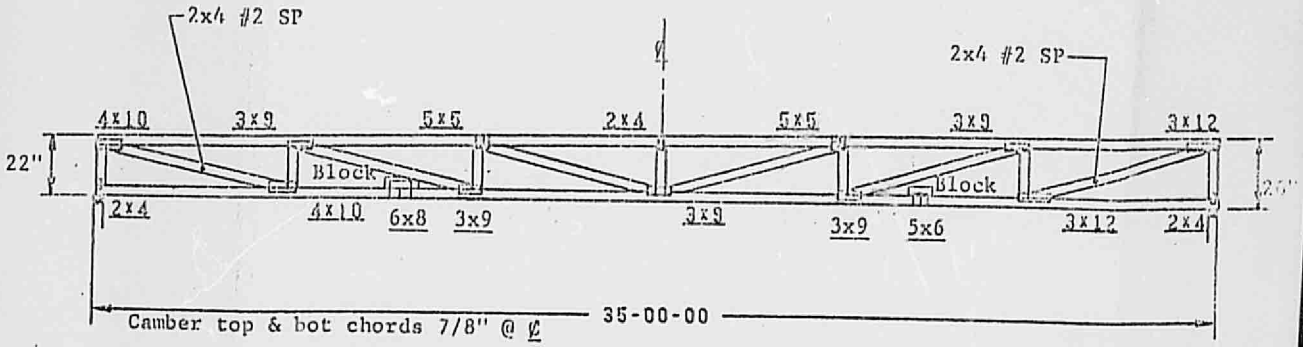

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Bot Chord 10	psf	Depth	22" min.
Tot. Load 40	psf	Type	FLAT
Dur. Factor 15%			
Spacing 2'0" O.C.			