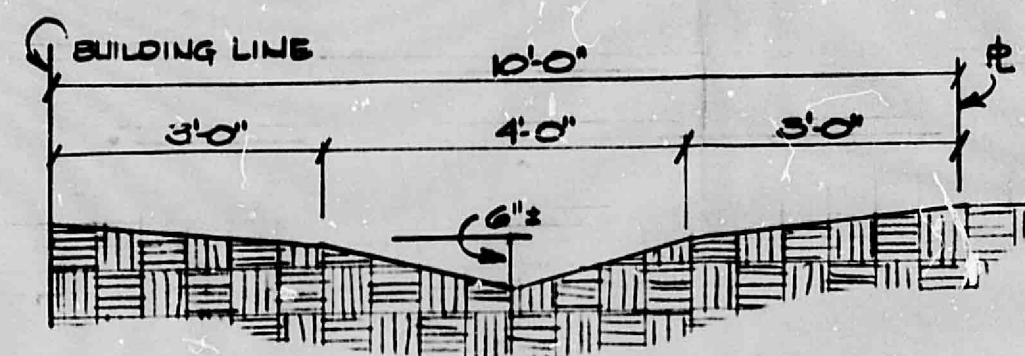
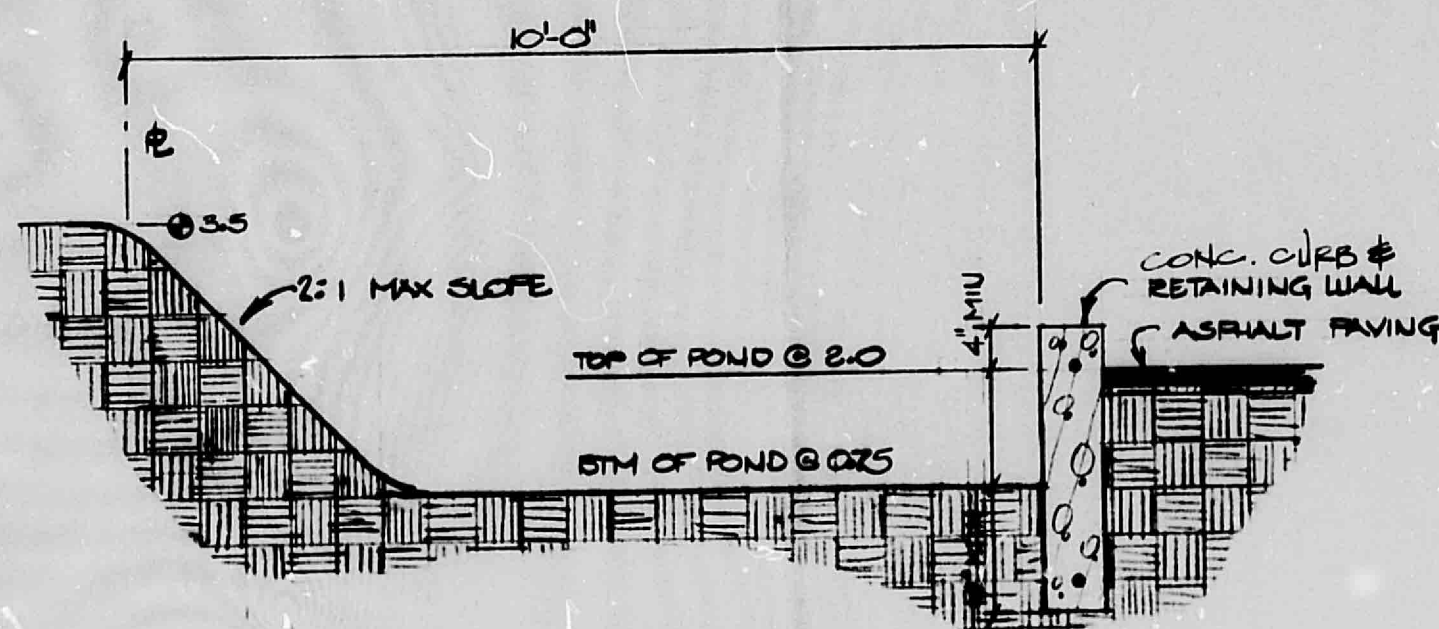




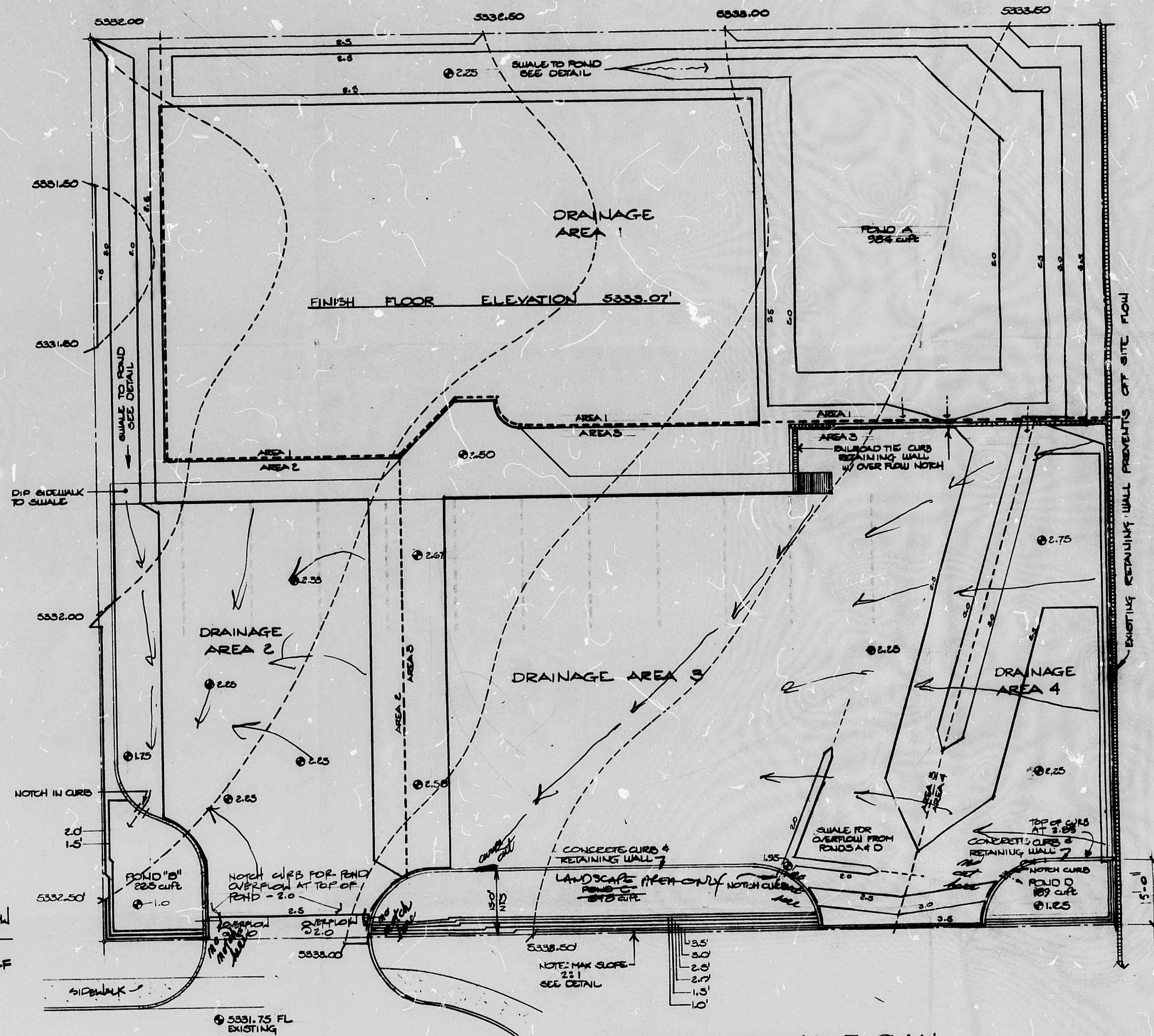
TYPICAL SWALE
OVERFLOW SWALES IN PARKING AREA TO BE SIMILAR



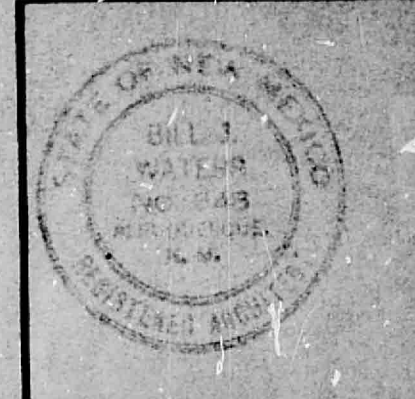
TYPICAL POND SECTION
SHOWN IS POND C - TYPICAL OF B & D

SUMMARY OF DRAINAGE PLAN

AREA	EXISTING CONDITIONS - ALL PERVIOUS	EXISTING VOLUME	DEVELOPED CONDITIONS		REQUIRED PONDING	POND CAPACITY	OVERFLOW
			PERVIOUS	IMPERVIOUS			
AREA 1	8293 SF	$8293 \times \frac{2.4}{12} \times 4 = 663$ CF	AREA 3913 SF	4380 SF	818 CF	984 CF	117 CF
			VOLUME 313 CF	188 CF			
			TOTAL 1101 CF				
AREA 2	3062 SF	$3062 \times \frac{2.4}{12} \times 4 = 245$ CF	AREA 1143 SF	1914 SF	191 CF	225 CF	211 CF
			VOLUME 91 CF	345 CF			
			TOTAL 436 CF				
AREA 3	6824 SF	$6824 \times \frac{2.4}{12} \times 4 = 546$ CF	AREA 1053 SF	5771 SF	577 CF	648 CF	493 CF
			VOLUME 84 CF	1039 CF			
			TOTAL 1123 CF				
AREA 4	1621 SF	$1621 \times \frac{2.4}{12} \times 4 = 130$ CF	AREA 252 SF	1892 SF	116 CF	189 CF	54 CF
			VOLUME 28 CF	246 CF	TOTAL 2046 CF		
			TOTAL 246 CF		REQUIRED 1369 CF		875 OVERFLOW
					LESS POND C 677 CF		
					648		
					29 CF EXCESS		



GRADING & DRAINAGE PLAN
SCALE 1"=10'-00"



architect

engineer

LONG & WATERS
PA AIA

ARCHITECTS
ENGINEERS
PLANNERS

sheet title

GRADING &
DRAINAGE PLAN

project

butterfly tree 2

date

5-31-79

sheet no.

1a

J19/D37 (2)