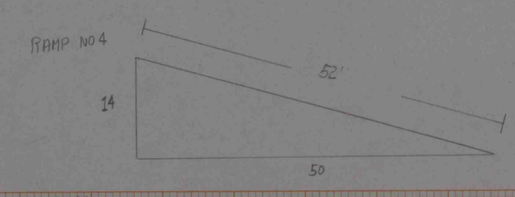
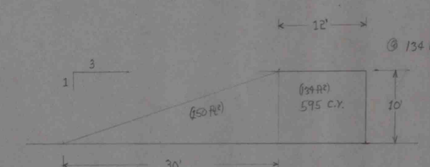
PLAN

SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT OF WAY CHECKED
NOTE BOOK
NO.
BY
DATE



RAMP CALCULATIONS NO3 & NO4 PONDS

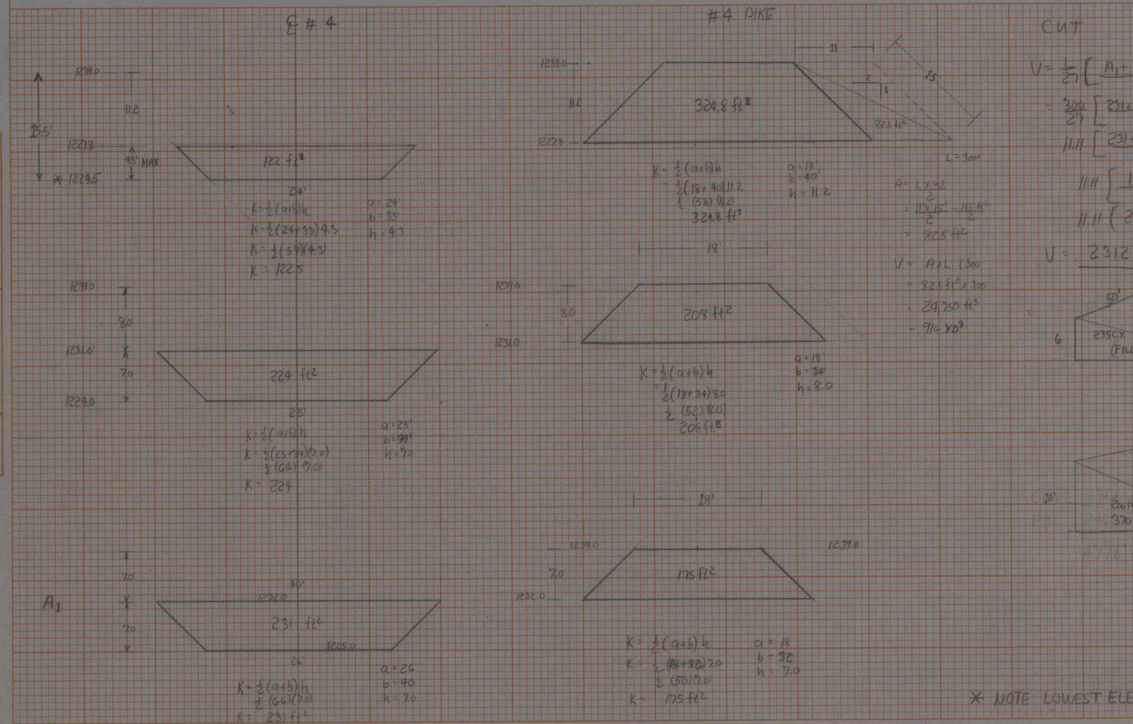


A = L x W = 12 x 10 = 120 ft²
VOL = A x L = 120 ft² x 134 ft
@ 134 LENGTH = 16,080 ft³
= 595 C.Y.

A = L x W / 2 = 30 x 10 / 2 = 300 / 2 = 150 ft²
VOL = A x L = 150 ft² x 134 ft
= 20,100 ft³
= 744 C.Y.

PROFILE

SURVEYED
PLOTTED
ALIGNMENT CHECKED
B.M. NOTED
STRUCTURE NOTATIONS ON NO.
NOTE BOOK
NO.
BY
DATE



CUT

$A_1 = 231\ ft^2$
$A_m = 224\ ft^2$
$A_2 = 122\ ft^2$
$L = 300'$

$V = \frac{L}{27}\left[\frac{A_1 + 4A_m + A_2}{6}\right]$

$= \frac{300}{27}\left[\frac{231 + 4(224) + 122}{6}\right]$

$11.11\left[\frac{231 + 896 + 122}{6}\right]$

$11.11\left[\frac{1249}{6}\right]$

$11.11\ (208.16)$

$V = 2312\ YD^3$

FILL

$V = \frac{L}{27}\left[\frac{A_1 + 4A_m + A_2}{6}\right]$

$A_1\ 175.0$
$A_m\ 264.0$
$A_2\ 324.8$

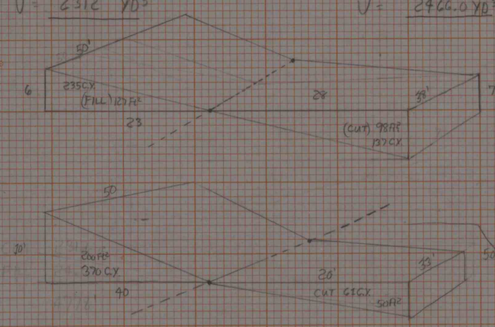
$V = \frac{300}{27}\left[\frac{175 + 4(264) + 324.8}{6}\right]$ L = 300

$= 11.11\left[\frac{175 + 832 + 324.8}{6}\right]$

$11.11\left[\frac{1331.8}{6}\right]$

$11.11\ (221.96)$

$V = 2466.0\ YD^3$



V = 98 ft² x 38 ft
= 3724 ft³
= 137 C.Y.

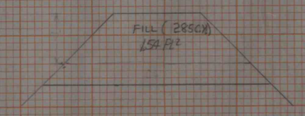
V = 69 ft² x 50 ft
= 3450 ft³
V = 127 ft² x 50
= 6350
= 235 ft³

V = 52 ft² x 33
= 1650 ft³
= 61.1 C.Y.

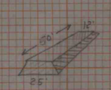
V = 200 ft² x 50
= 10,000 ft³
= 370 C.Y.

a = 10 x 40 / 2
= 200 ft²

VOLUME CALCULATIONS - EDGE OF NO3 (EDGE SIDE)



K = 1/2 (a+b) h
= 1/2 (12 + 22) 7
= 1/2 (44) 7
= 154 ft²

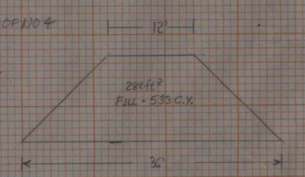


VOL = K x L
= 154 ft² x 50
= 7700 ft³
= 285 C.Y.

VOLUME CALCULATIONS - END OF NO4

K = 1/2 (a+b) h
= 1/2 (12 + 24) 12
= 1/2 (48) 12
= 288 ft²

VOL = K x L
= 288 ft² x 50
= 14,400 ft³
= 533 C.Y.



VOLUME CALCULATIONS - SLUDGE BEDS

SCALE 1" = 10'

* NOTE LOWEST ELEVATION IN THIS POND IS 1223.5' @ LOWEST END

RF JUBIE

PLATE 4 CROSS SECTION - PLAN
CHARLES BRUNING COMPANY
MADE IN U.S.A.

I-NAPS 15344