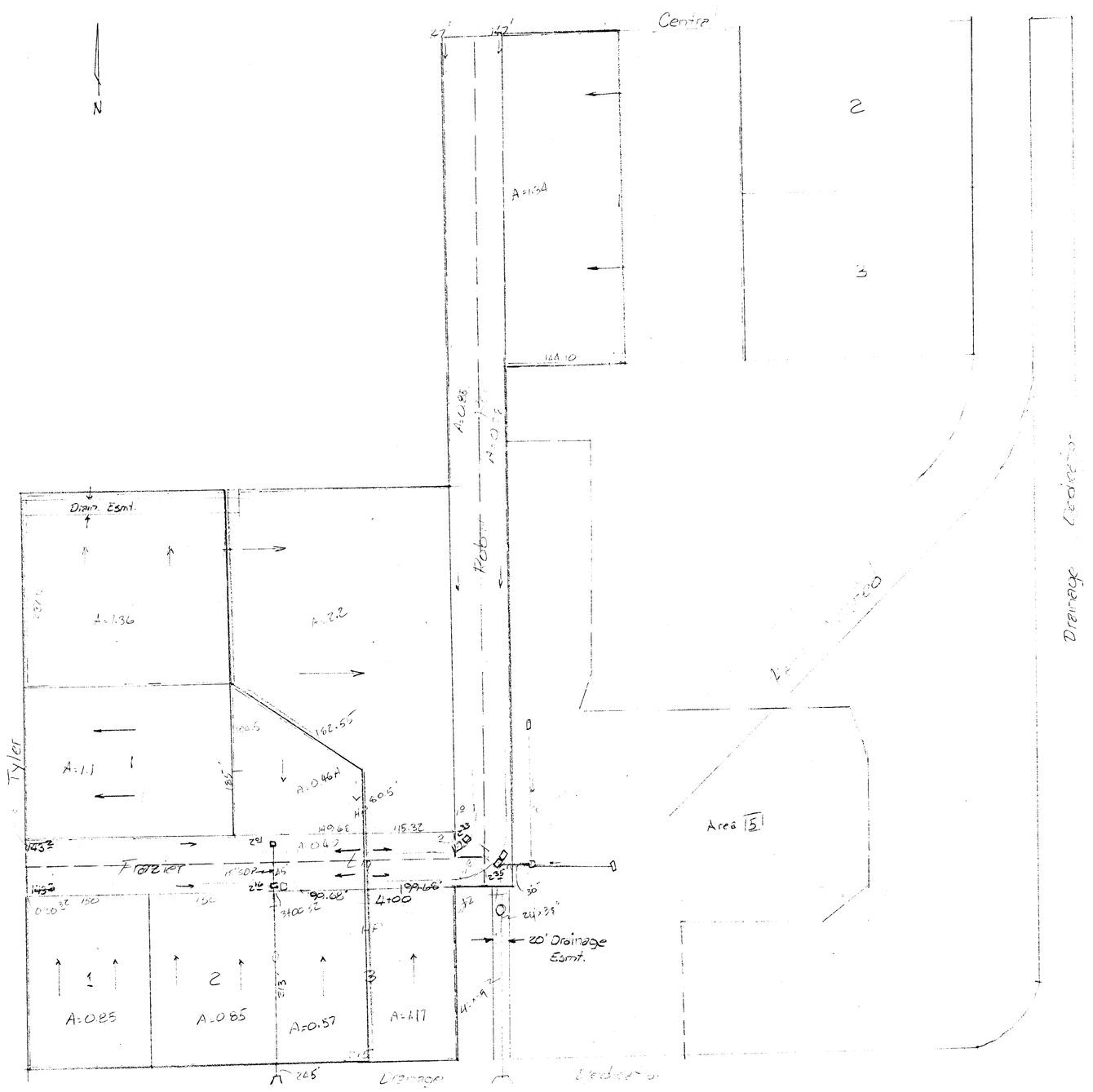
Ty - Cen Addn.



Blue Area

East A = 1.37 + 0.68 + 1.17 = 3.39 Ac.

C = 0.7

$t_c = 11.9\left(\frac{783 \times 3.3}{320}\right)^{.385}$ Use 15 min

$I_2 = 3.25$ in/Hr $I_{100} = 6.8$ in/Hr

$I_5 = 4.20$ in/Hr

$Q_2 = 7.7$ cfs

$Q_5 = 10.0$ cfs

$Q_{100} = 16.6$ cfs

West A = 2.2 + 0.9 = 3.1 Ac

C = 0.7

$t_c = \left[\quad\right]$ Use 15 min

$I_2 = 3.25$ in/Hr $I_{100} = 6.8$

$I_5 = 4.20$ in/Hr

$Q_2 = 7.0$ cfs

$Q_5 = 8.9$ cfs

$Q_{100} = 14.5$ cfs

Red Area

North A = 1.4 + 1.1 + 0.4 + 0.5 = 3.4

C = 0.7

t_c = use 15 min

$I_2 = 3.25$ in/Hr

$I_5 = 4.2$ in/Hr

$I_{100} = 6.8$ in/Hr

$Q_2 = 7.7$ cfs

$Q_5 = 10.0$ cfs

$Q_{100} = 16.2$ cfs

South A = 0.9 + 0.9 + 0.6 = 2.4 Ac

C = 0.7

$t_c = \left[11.9\left(\frac{\quad}{L}\right)^{3}\right]^{.385}$ 15 min

$I_2 = 3.25$ in/Hr $I_{100} = 6.8$ in/Hr

$I_5 = 4.20$ in/Hr

$Q_2 = 5.5$ cfs

$Q_5 = 7.1$ cfs

$Q_{100} = 11.4$ cfs

Total 5 Yr = 7.1 + 10.0 = 17.1 cfs

100 Yr = 16.2 + 11.4 = 27.6 cfs

10.5

Area [5] Part of lot 4 Blk 1 = 0

A = [illegible] = [illegible] + 1.45 [illegible]

C = 0.7

$t_c = \left[\frac{11.9\,(C\,[illegible])^{3}}{[illegible]}\right]^{.385}$ Use 15 min

$I_2 = 3.5$ in/Hr

$I_5 = 4.20$ in/Hr

$Q_2 = 9.1$ cfs

$Q_5 = 11.8$ cfs

Red Area

142.33 - 2 - .23 - 1.17 = 138.93

$\frac{.2}{41'} = 0.0049 \times 49' = 0.24' - 139.57 = 139.33$

10 - 0.2 - 7.4 = 2.3

FL = 142.00 - .83 - 1.58' - .27' = 139.32

24 eq. 19 × 50' $\frac{27.6}{27.6} = 0.10\% \times 33' = .33' - 139.32 = 138.99'$

San. Sewer

138.98 — Top

138.15 — FL

36" RCP $\frac{27.6}{4.4^2 \times 3} = 0.39\% \times 209 + .81 - 138.60 = 137.79$

$V = \frac{Q}{A} = \frac{27.6}{4.909} = 5.62$ fps/sec

36" RCP $\frac{27.6}{666} = 0.0017 \times 209 = .36 - 138.60 = 138.24$

$V = \frac{Q}{A} = \frac{27.6}{7.069} = 3.9$ fps/sec.

$\frac{.2}{49} = 0.0041\%$

A

Blue Area

142.33 - 2 - .23 - 1.17 = 138.93

$\frac{9\ cfs}{116} = 0.0062 \times 50' = 0.30 - 138.93 = 138.63$

142.35 - 1' - .31 - 2.25 = 138.79

30" equ 24" 38 $\frac{30.8\ cfs}{1097} = 0.0038 \times 105' = 0.40 - 138.63 = 138.23$

San. Sewer

Top — 8.33

FL — 7.50

30" eq 20" × 45 $\frac{30.8}{80} = 0.0015' \times 195 = 0.28 - 138.23 = 137.95$

138.00 - .23 = 137.12

$V = \frac{30.8}{7.4} = 4.16$ fps