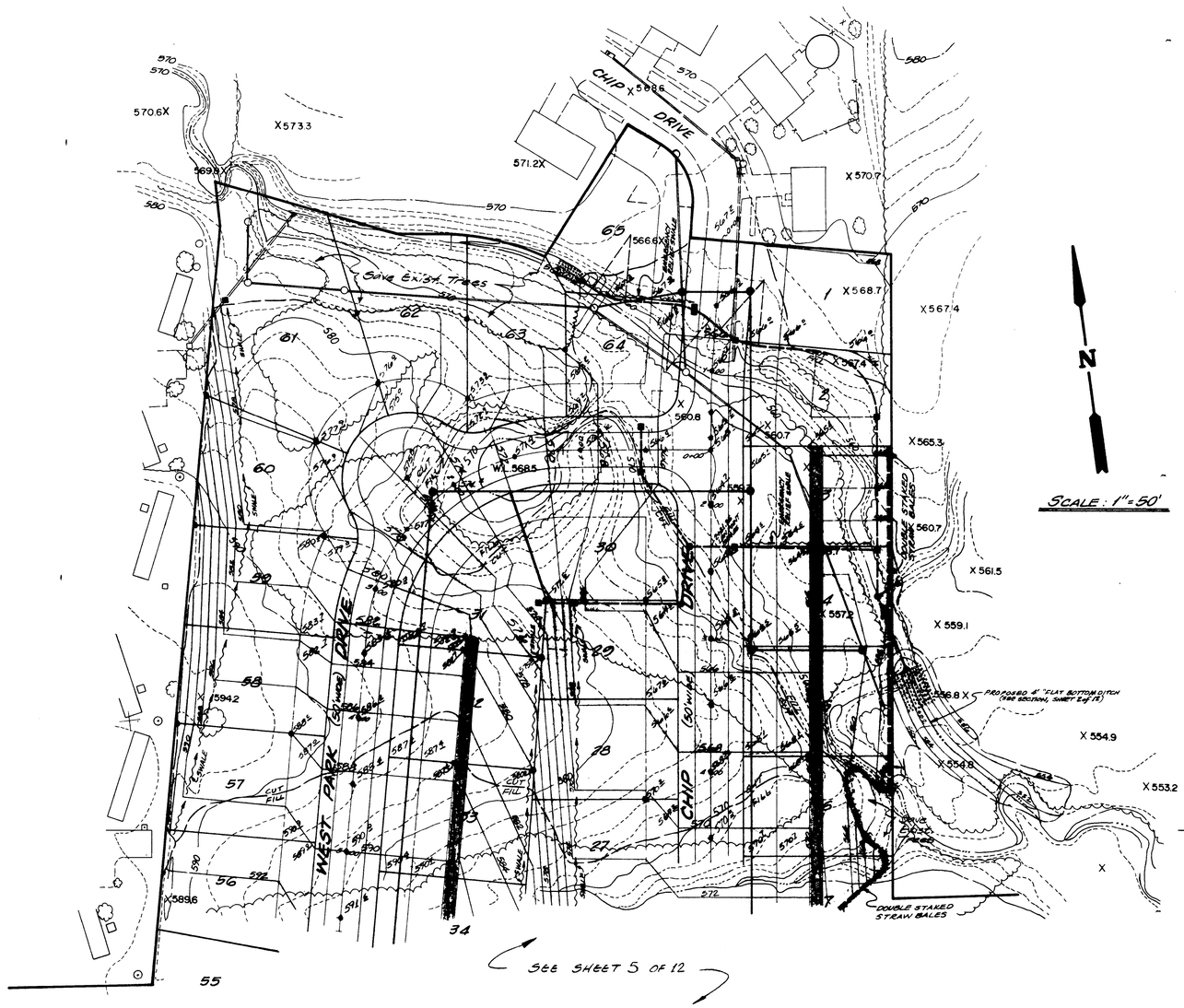
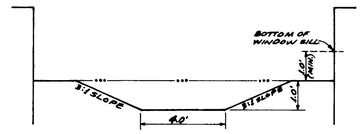
GRADING PLAN
PARKVIEW PLACE II

JULY 4, 1986 #84-1473

Rev. 8-6-86 / Rev. 9-4-86



SCALE: 1" = 50'



DEMAND Q = 20 ± C.F.S.

d = 1.0'
a = 7.0
wp = 10.32
S = 0.01
n = 0.04
R = a/wp

$V = \frac{1.486}{0.04}(R^{2/3})(S^{1/2})$

$V = 37.15(\frac{7.0}{10.32})^{2/3}(0.01)^{1/2}$

$V = 37.15(0.6783)^{2/3}(0.10)$

$V = 37.15(0.772)(0.10)$

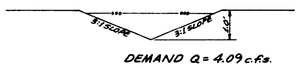
$V = 2.868$

$Q = VA$

$Q = 2.868 \times 7.0$

$Q = 20.08$ c.f.s.

EMERGENCY RELIEF SWALE NOT TO SCALE
(BETWEEN LOTS 64 & 65 AND BETWEEN LOTS 3 & 4)



DEMAND Q = 4.09 c.f.s.

d = 0.9'
a = 2.43'
wp = 5.70
S = 0.01
n = 0.04
R = a/wp

$V = \frac{1.486}{0.04}(R^{2/3})(S^{1/2})$

$V = 37.15(\frac{2.43}{5.70})^{2/3}(0.01)^{1/2}$

$V = 37.15(0.4263)^{2/3}(0.10)$

$V = 37.15(0.5664)(0.10)$

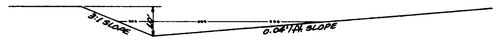
$V = 2.104$

$Q = VA$

$Q = 2.104 \times 2.43$

$Q = 5.11$ c.f.s.

EMERGENCY RELIEF SWALE NOT TO SCALE
(BETWEEN LOTS 15 & 16)



WORST CASE DEMAND Q = 5.33 c.f.s.

d = 0.90'
a = 3.51
wp = 14.09
S = 0.18
n = 0.04
R = a/wp

$V = \frac{1.486}{0.04}(R^{2/3})(S^{1/2})$

$V = 37.15(\frac{3.51}{14.09})^{2/3}(0.018)^{1/2}$

$V = 37.15(0.2491)^{2/3}(0.1342)$

$V = 37.15(0.3959)(0.1342)$

$V = 1.947$

$Q = VA$

$Q = 1.947 \times 3.51$

$Q = 6.93$ c.f.s.

TYPICAL REAR YARD SWALE NOT TO SCALE