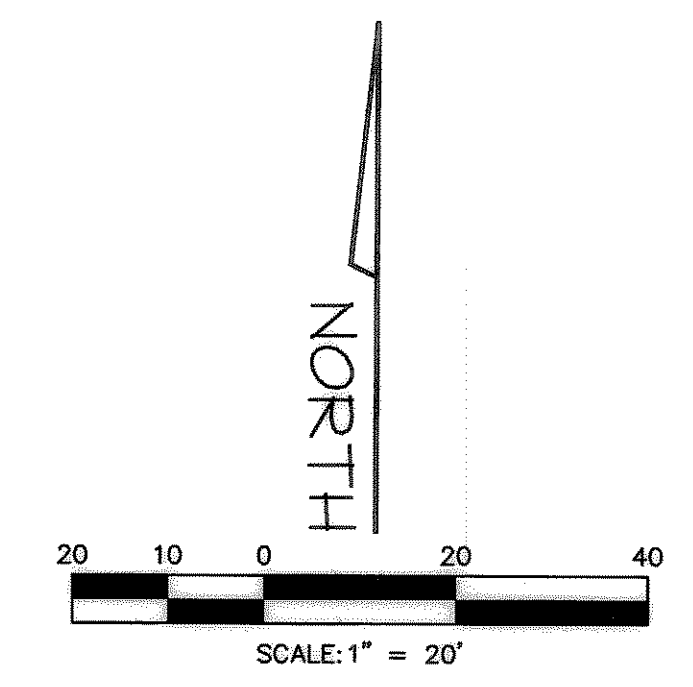


R = 380.00'
D = 24°50'01"
T = 83.67'
L = 164.71'

LOT 5, BLOCK A
LLOYD D. & CHERYL E. NABORS
VOL. 1409, PG. 090

LOT 7, BLOCK A
WOOD BROTHER'S
INVESTMENTS PARTNERSHIP
VOL. 1868, PG. 0004



Allowable Discharge
Area = 0.52 Acres
Cres = 0.35
I100 = 8.3
TC = 20 min

Q(allowable) = 1.51 cfs use 1.5 cfs

Storm Duration calculations CA = (0.9)(0.52) = 0.47

10min	= 9.8	Q = 4.6
20min	= 8.3	Q = 3.9
30min	= 6.9	Q = 3.2
40min	= 5.8	Q = 2.7
50min	= 5.0	Q = 2.4
60min	= 4.5	Q = 2.1
70min	= 4.2	Q = 2.0
80min	= 3.9	Q = 1.8
90min	= 3.5	Q = 1.6

RATING TABLE

HEADWATER ELEVATION (ft)	DISCHARGE (cfs)	VELOCITY (ft/s)
0.0	N/A	N/A
0.5	0.61	3.2
1.0	1.06	5.5
1.5	1.36	7.1
1.9	1.50	8.2
2.0	1.61	8.4

Volume Determination

10min	10 x 4.6 x 60 = 2,760
	0.5 x 20 x 1.5 x 60 = 900
	1,860 c.f.
20min	20 x 3.9 x 60 = 4,680
	0.5 x 30 x 1.5 x 60 = 1,350
	3,330 c.f.
30min	30 x 3.2 x 60 = 5,760
	0.5 x 40 x 1.5 x 60 = 1,800
	3,960 c.f.
40min	40 x 2.7 x 60 = 6,480
	0.5 x 50 x 1.5 x 60 = 2,250
	4,230 c.f.
50min	50 x 2.4 x 60 = 7,200
	0.5 x 60 x 1.5 x 60 = 2,700
	4,500 c.f.
60min	60 x 2.1 x 60 = 7,560
	0.5 x 70 x 1.5 x 60 = 3,150
	4,410 c.f.
70min	70 x 2.0 x 60 = 8,400
	0.5 x 80 x 1.5 x 60 = 3,600
	4,800 c.f.*
80min	80 x 1.8 x 60 = 8,640
	0.5 x 90 x 1.5 x 60 = 4,050
	4,590 c.f.
90min	90 x 1.6 x 60 = 8,640
	0.5 x 100 x 1.5 x 60 = 4,500
	4,140 c.f.

*Maximum Volume Required = 4,800 c.f.
NOTE: Detention Calculations based on improved area only.

STORM WATER RUNOFF CALCULATIONS

AREA NO.	ACRES	TC (min)	"C"	"100" (IN./HR.)	"Q100" (cfs)	DISCHARGE TO
A	0.52	10	0.9	9.8	4.6	DET. POND
B	0.06	10	0.9	9.8	0.5	BAR DITCH

RECORD DRAWING

IMPROVEMENTS INDICATED ON THIS PLAN WHERE MADE IN ACCORDANCE WITH THE PROJECT PLANS & SPECIFICATIONS. THE DESIGN ENGINEER IS NOT AWARE OF ANY CHANGES TO THESE PLANS OTHER THAN THOSE SHOWN.
DATE: MAY 11, 2004