DRAINAGE ANALYSIS SUMMARY
ROCKY CREEK ADDITION

Area ID**	Area ac	Accum. Area ac	C2	C100	Tc2 min	Tc100 min	I2* in/hr	I100* in/hr	Q2 cfs	Q100 cfs	Size ft	Size in	Min Slope %	COMMENTS
C1 0.5 to 1.0 ac. Lots 20-25% impervious	2.25		0.40	0.70	18	15	3.51	7.37	3.2	11.6	10	24	0.25	100 year design
C2 0.5 to 1.0 ac. Lots 50% impervious	0.81		0.60	0.80	15	15	3.83	7.37	1.9	4.8	5			
C1 + C2		3.06	0.45	0.73	18	15	3.51	7.37	4.9	16.4		24	0.5	100 year design
A1 20-25% impervious	4.30		0.40	0.70	15	15	3.83	7.37	6.6	22.2	5	18	0.4	2 year design
B 50% impervious	0.45		0.60	0.80	15	15	3.83	7.37	1.0	2.7	5			2 year design
A1 + B		4.75	0.42	0.71	18	15	3.51	7.37	7.0	24.8		18	0.4	2 year design, provide escape route to Reserve N
U1 0.25 to 0.33 ac 30 to 38% impervious	0.70		0.48	0.74	15	15	3.83	7.37	1.3	3.8	area inlet	15	0.4	2 year design (can handle 100 year)
U2 0.25 to 0.33 ac 30 to 38% impervious	0.60		0.48	0.74	15	15	3.83	7.37	1.1	3.3	area inlet	15	0.4	2 year design
U1 + U2		1.30	0.48	0.74	15	15	3.83	7.37	2.4	7.1		15	1.0	2 year design
V1 0.25 to 0.33 ac 30 to 38% impervious	0.70		0.48	0.74	15	15	3.83	7.37	1.3	3.8	5	15	0.4	100 year design
V2 0.25 to 0.33 ac 30 to 38% impervious	1.70		0.48	0.74	15	15	3.83	7.37	3.1	9.3	10			100 year design
V1 + V2		2.40	0.48	0.74	15	15	3.83	7.37	4.4	13.1		24	0.4	100 year design
U1 + U2 + V1 + V2		3.70	0.48	0.74	20	15	3.33	7.37	5.9	20.2		24	0.4	2 year design (Area U1 + U2 = 2.4 cfs) + 100 year desgin (V1 + V2 = 13.1 cfs) = 15.5 cfs
U3 0.25 to 0.33 ac 30 to 38% impervious	4.00		0.48	0.74	15	15	3.83	7.37	7.4	21.8	10			2 year design

DRAINAGE ANALYSIS SUMMARY
ROCKY CREEK ADDITION

Area ID**	Area ac	Accum. Area ac	C2	C100	Tc2 min	Tc100 min	I2* in/hr	I100* in/hr	Q2 cfs	Q100 cfs	Size ft	Size in	Min Slope %	COMMENTS
U1 + U2 + U3 + V1 + V2		7.70	0.48	0.74	20	15	3.33	7.37	12.3	42.0		30	0.5	2 year design (Area U1 + U2 + U3 = 9.8 cfs) + 100 year desgin (V1 + V2 = 13.1 cfs) = 22.9 cfs
U4 0.25 to 0.33 ac 30 to 38% impervious	0.47		0.48	0.74	15	15	3.83	7.37	0.9	2.6	5			2 year design
U1 + U2 + U3 + U4 + V1 + V2		8.17	0.48	0.74	20	15	3.33	7.37	13.1	44.6		30	0.5	2 year design (Area U1 + U2 + U3 + U4 = 10.7 cfs) + 100 year desgin (V1 + V2 = 13.1 cfs) = 23.8 cfs
J1 lawned area 0% impervious	7.47		0.28	0.63	15	15	3.83	7.37	8.0	34.7				
U1 + U2 + U3 + U4 + V1 + V2 + C2 + C1 + A1 + B + J1 WEIR #1		23.45	0.40	0.70	29	16	2.72	7.18	25.5	117.4				
F1 0.5 to 1.0 ac. Lots 20-25% impervious	2.55		0.40	0.70	15	15	3.83	7.37	3.9	13.2	10	24	0.4	100 year design
F2 0.5 to 1.0 ac. Lots 50% impervious	1.45		0.60	0.80	15	15	3.83	7.37	3.3	8.5	5			
F1 + F2		4.00	0.47	0.74	18	15	3.51	7.37	6.6	21.7		24	0.6	100 year design
OO 0.25 to 0.33 ac 30 to 38% impervious	1.10		0.48	0.74	15	15	3.83	7.37	2.0	6.0	area inlet	15	0.5	2 year design
TT 0.25 to 0.33 ac 30 to 38% impervious	1.00		0.48	0.74	15	15	3.83	7.37	1.8	5.5	area inlet			2 year design
OO + TT		2.10	0.48	0.74	15	15	3.83	7.37	3.9	11.5		15	0.5	2 year design
UU 0.25 to 0.33 ac 30 to 38% impervious	1.00		0.48	0.74	15	15	3.83	7.37	1.8	5.5	area inlet			2 year design
OO + TT + UU		3.10	0.48	0.74	15	15	3.83	7.37	5.7	16.9		18	0.5	2 year design
R	2.70		0.48	0.74	15	15	3.83	7.37	5.0	14.7	5			2 year design, provide escape route to Reserve N

DRAINAGE ANALYSIS SUMMARY
ROCKY CREEK ADDITION

Area ID**	Area ac	Accum. Area ac	C2	C100	Tc2 min	Tc100 min	I2* in/hr	I100* in/hr	Q2 cfs	Q100 cfs	Size ft	Size in	Min Slope %	COMMENTS
0.25 to 0.33 ac 30 to 38% impervious														
S 0.25 to 0.33 ac 30 to 38% impervious	0.18		0.48	0.74	15	15	3.83	7.37	0.3	1.0	5			2 year design, provide escape route to Reserve N
OO + TT + UU + R + S		5.98	0.48	0.74	35	20	2.44	6.53	7.0	28.9		24	0.25	2 year design, provide escape route to Reserve N
J2 lawned area 0% impervious	4.05		0.28	0.63	15	15	3.83	7.37	4.3	18.8				
OO + TT + UU + R + S F1 + F2 + J2 + WEIR #1 Weir #2		37.48	0.41	0.70	35	20	2.44	6.53	37.3	171.5				
I1 0.5 to 1.0 ac. Lots 50% impervious	2.40		0.60	0.80	15	15	3.83	7.37	5.5	14.2	5			2 year design, provide escape route to Reserve N
I2 0.5 to 1.0 ac. Lots 50% impervious	1.65		0.60	0.80	15	15	3.83	7.37	3.8	9.7	5			2 year design, provide escape route to Reserve L
J3 lawned area 0% impervious	2.68		0.28	0.63	15	15	3.83	7.37	2.9	12.4				
Weir #1 + Weir #2 + I1 + I2 + J3 Rocky Cr. Road Culvert		44.21	0.42	0.71	35	20	2.44	6.53	45.1	203.7				
D 0.5 to 1.0 ac. Lots 20-25% impervious	1.00		0.40	0.70	15	15	3.83	7.37	1.5	5.2	5	15	0.6	100 year design
G 0.5 to 1.0 ac. Lots 20-25% impervious	1.00		0.40	0.70	15	15	3.83	7.37	1.5	5.2	5	15	0.6	100 year design
D + G		2.00	0.40	0.70	18	15	3.51	7.37	2.8	10.3		18	1.1	100 year design
A2 urban lawn 20-25% impervious	2.30		0.40	0.70	15	15	3.83	7.37	3.5	11.9		24	0.25	100 year design, cross road pipe
E 0.5 to 1.0 ac. Lots 20-25% impervious	9.00		0.40	0.70	20	17	3.33	7.00	12.0	44.1				

DRAINAGE ANALYSIS SUMMARY
ROCKY CREEK ADDITION

Area ID**	Area ac	Accum. Area ac	C2	C100	Tc2 min	Tc100 min	I2* in/hr	I100* in/hr	Q2 cfs	Q100 cfs	Size ft	Size in	Min Slope %	COMMENTS
D + G + A2 + E		13.30	0.40	0.70	20	17	3.33	7.00	17.7	65.2				
K1	9.00		0.40	0.70	40	34	2.24	5.07	8.1	31.9				
K2	9.30		0.20	0.55	40	34	2.24	5.07	4.2	25.9				drainage to be handled by on site development
D + G + A2 + E + K1 + K2		31.60	0.40	0.70	40	34	2.24	5.07	28.3	112.1				this includes onsite drainage only
Q 0.25 to 0.33 ac 30 to 38% impervious	0.93		0.48	0.74	15	15	3.83	7.37	1.7	5.1	5	15	0.6	100 year design
T 0.25 to 0.33 ac 30 to 38% impervious	0.89		0.48	0.74	15	15	3.83	7.37	1.6	4.9	5			100 year design
Q + T		1.82	0.48	0.74	15	15	3.83	7.37	3.3	9.9		24	0.5	100 year design
P 0.25 to 0.33 ac 30 to 38% impervious	2.22		0.48	0.74	15	15	3.83	7.37	4.1	12.1	10			100 year design
Q + T + P		4.04	0.48	0.74	15	15	3.83	7.37	7.4	22.0		30	0.5	100 year design
HHH 0.25 to 0.33 ac 30 to 38% impervious	0.23		0.48	0.74	15	15	3.83	7.37	0.4	1.3	5			100 year design
Q + T + P + HHH		4.27	0.48	0.74	15	15	3.83	7.37	7.8	23.3		30	0.5	100 year design
N 0.25 to 0.33 ac 30 to 38% impervious	1.70		0.48	0.74	15	15	3.83	7.37	3.1	9.3	area inlet			100 year design
Q + T + P + HHH + N		5.97	0.48	0.74	22	18	3.17	6.84	9.1	30.2		30	0.5	100 year design
M 0.25 ac 50% impervious	1.14		0.60	0.80	15	15	3.83	7.37	2.6	6.7	5			100 year design
Q + T + P + HHH + N + M		7.11	0.50	0.75	24	20	3.03	6.53	10.8	34.8		36	0.4	100 year design
L 0.25 ac	1.57		0.60	0.80	15	15	3.83	7.37	3.6	9.3	5			100 year design

DRAINAGE ANALYSIS SUMMARY
ROCKY CREEK ADDITION

Area ID**	Area ac	Accum. Area ac	C2	C100	Tc2 min	Tc100 min	I2* in/hr	I100* in/hr	Q2 cfs	Q100 cfs	Size ft	Size in	Min Slope %	COMMENTS
50% impervious														
Q + T + P + HHH + N + M + L		8.68	0.52	0.76	24	20	3.03	6.53	13.6	43.0		36	0.4	100 year design
O1	0.35		0.60	0.80	15	15	3.83	7.37	0.8	2.1	5	15	0.6	100 year design
0.25 ac														
50% impervious														
O2	0.40		0.60	0.80	15	15	3.83	7.37	0.9	2.4	5			100 year design
0.25 ac														
50% impervious														
O1 + O2		0.75	0.60	0.80	15	15	3.83	7.37	1.7	4.4		15	0.6	100 year design
QQ	1.60		0.48	0.74	15	15	3.83	7.37	2.9	8.7	10	18	0.6	100 year design
0.25 to 0.33 ac														
30 to 38% impervious														
FFF	0.50		0.48	0.74	15	15	3.83	7.37	0.9	2.7	5			100 year design
0.25 to 0.33 ac														
30 to 38% impervious														
QQ + FFF		2.10	0.48	0.74	15	15	3.83	7.37	3.9	11.5		24	0.3	100 year design
EEE	0.80		0.48	0.74	15	15	3.83	7.37	1.5	4.4	area inlet			2 year design
0.25 to 0.33 ac														
30 to 38% impervious														
GGG	1.57		0.48	0.74	15	15	3.83	7.37	2.9	8.6	10	24	0.3	100 year design
0.25 to 0.33 ac														
30 to 38% impervious														
QQ + FFF + EEE + GGG		4.47	0.48	0.74	15	15	3.83	7.37	8.2	24.4		30	0.4	100 year design (Area QQ + FFF + GGG = 20.1 cfs) + 2 year desgin (EEE = 1.5 cfs) = 21.6 cfs
JJ1	5.10		0.48	0.74	15	15	3.83	7.37	9.4	27.8		30	0.5	100 year design
0.25 to 0.33 ac														
30 to 38% impervious														
JJ2	2.97		0.48	0.74	15	15	3.83	7.37	5.5	16.2				
0.25 to 0.33 ac														
30 to 38% impervious														
Q + T + P + HHH + N + M + L + O1 + O2 + FFF+ EEE + GGG + JJ1 + JJ2		21.97	0.48	0.74	24	20	3.03	6.53	32.0	106.2				
WW	1.15		0.48	0.74	15	15	3.83	7.37	2.1	6.3	area inlet	15	0.5	2 year design

DRAINAGE ANALYSIS SUMMARY
ROCKY CREEK ADDITION

Area ID**	Area ac	Accum. Area ac	C2	C100	Tc2 min	Tc100 min	I2* in/hr	I100* in/hr	Q2 cfs	Q100 cfs	Size ft	Size in	Min Slope %	COMMENTS
0.25 to 0.33 ac 30 to 38% impervious														
XX 0.25 to 0.33 ac 30 to 38% impervious	1.18		0.48	0.74	15	15	3.83	7.37	2.2	6.4	area inlet			2 year design
RR 0.25 to 0.33 ac 30 to 38% impervious	1.70		0.48	0.74	15	15	3.83	7.37	3.1	9.3	area inlet	18	0.8	100 year design
SS 0.25 to 0.33 ac 30 to 38% impervious	2.00		0.48	0.74	15	15	3.83	7.37	3.7	10.9	10	18	0.8	100 year design
RR + SS		3.70	0.48	0.74	15	15	3.83	7.37	6.8	20.2		30	0.25	100 year design
YY 0.25 to 0.33 ac 30 to 38% impervious	1.34		0.48	0.74	15	15	3.83	7.37	2.5	7.3	10			100 year design
RR + SS + YY		5.04	0.48	0.74	15	15	3.83	7.37	9.3	27.5		30	0.5	100 year design
WW + XX + RR + SS + YY		7.37	0.48	0.74	18	15	3.51	7.37	12.4	40.2		30	0.5	100 year design (RR + SS + YY = 27.5 cfs) + 2 year design (WW + XX = 4.3 cfs) = 31.8 cfs
ZZ 0.25 to 0.33 ac 30 to 38% impervious	2.50		0.48	0.74	15	15	3.83	7.37	4.6	13.6	area inlet	t		100 year design
WW + XX + YY + RR + SS + YY + ZZ		9.87	0.48	0.74	15	15	3.83	7.37	18.1	53.8		30	0.8	100 year design (Area RR + SS + YY= 27.5 cfs) + 2 year design (Area WW + XX + ZZ = 8.9 cfs) = 36.4 cfs
******end tkm check**********														
GG1 0.25 to 0.33 ac 30 to 38% impervious	0.80		0.48	0.74	15	15	3.83	7.37	1.5	4.4	5	15	0.5	100 year design
GG2 0.25 to 0.33 ac 30 to 38% impervious	0.80		0.48	0.74	15	15	3.83	7.37	1.5	4.4	5			100 year design
GG1 + GG2		1.60	0.48	0.74	15	15	3.83	7.37	2.9	8.7		18	0.6	100 year design
HH 0.25 to 0.33 ac 30 to 38% impervious	1.30		0.48	0.74	15	15	3.83	7.37	2.4	7.1	area inlet	15	0.5	2 year design

DRAINAGE ANALYSIS SUMMARY
ROCKY CREEK ADDITION

Area ID**	Area ac	Accum. Area ac	C2	C100	Tc2 min	Tc100 min	I2* in/hr	I100* in/hr	Q2 cfs	Q100 cfs	Size ft	Size in	Min Slope %	COMMENTS
II 0.25 to 0.33 ac 30 to 38% impervious	1.30		0.48	0.74	15	15	3.83	7.37	2.4	7.1	area inlet	15	0.5	2 year design
GG1 + GG2 + HH + II		4.20	0.48	0.74	15	15	3.83	7.37	7.7	22.9		24	0.5	100 year design (Area GG1 + GG2 = 8.7 cfs) + 2 year design (Area HH + II = 4.8 cfs) = 13.5 cfs
KK 0.25 to 0.33 ac 30 to 38% impervious	1.50		0.48	0.74	15	15	3.83	7.37	2.8	8.2	10			100 year design
GG1 + GG2 + HH + II + KK		5.70	0.48	0.74	15	15	3.83	7.37	10.5	31.1		30	0.6	100 year design (Area GG1 + GG2 + KK = 16.9 cfs) + 2 year design (Area HH + II = 4.8 cfs) = 21.7 cfs
LL 0.25 to 0.33 ac 30 to 38% impervious	1.90		0.48	0.74	15	15	3.83	7.37	3.5	10.4	10			100 year design
GG1 + GG2 + HH + II + KK + LL		7.60	0.48	0.74	15	15	3.83	7.37	14.0	41.4		30	0.6	100 year design (Area GG1 + GG2 + KK + LL = 27.3 cfs) + 2 year design (Area HH + II = 4.8 cfs) = 32.1 cfs
PP 0.25 to 0.33 ac 30 to 38% impervious	3.60		0.48	0.74	15	15	3.83	7.37	6.6	19.6	15	30	0.3	100 year design
OO 0.25 to 0.33 ac 30 to 38% impervious	1.10		0.48	0.74	15	15	3.83	7.37	2.0	6.0	area inlet	15	0.5	2 year design
NN 0.25 to 0.33 ac 30 to 38% impervious	0.90		0.48	0.74	15	15	3.83	7.37	1.7	4.9	area inlet			2 year design
OO + NN		2.00	0.48	0.74	15	15	3.83	7.37	3.7	10.9		15	0.6	2 year design
GG1+GG2+HH+II+KK+LL+OO+NN+PP		13.20	0.48	0.74	15	15	3.83	7.37	24.3	72.0		42	0.3	100 year design (Area GG1 + GG2 + KK + LL + PP = 46.9 c 2 year design (Area HH + II = 8.5 cfs) = 55.4 cfs
W 0.25 to 0.33 ac 30 to 38% impervious	2.90		0.48	0.74	15	15	3.83	7.37	5.3	15.8	10	18	0.6	2 year design
Y 0.25 to 0.33 ac 30 to 38% impervious	1.60		0.48	0.74	15	15	3.83	7.37	2.9	8.7	5			2 year design

DRAINAGE ANALYSIS SUMMARY
ROCKY CREEK ADDITION

Area ID**	Area ac	Accum. Area ac	C2	C100	Tc2 min	Tc100 min	I2* in/hr	I100* in/hr	Q2 cfs	Q100 cfs	Size ft	Size in	Min Slope %	COMMENTS
W + Y		4.50	0.48	0.74	15	15	3.83	7.37	8.3	24.5		18	0.6	2 year design
BB1 0.25 to 0.33 ac 30 to 38% impervious	1.50		0.48	0.74	15	15	3.83	7.37	2.8	8.2	5	15	0.5	2 year design
BB2 0.25 to 0.33 ac 30 to 38% impervious	0.80		0.48	0.74	15	15	3.83	7.37	1.5	4.4	5			2 year design
BB1 + BB2		2.30	0.48	0.74	15	15	3.83	7.37	4.2	12.5		15	0.5	2 year design
W + Y + BB1 +BB2		6.80	0.48	0.74	15	15	3.83	7.37	12.5	37.1		24	0.3	2 year design
FF 0.25 to 0.33 ac 30 to 38% impervious	0.70		0.48	0.74	15	15	3.83	7.37	1.3	3.8	area inlet	15	0.5	2 year design
EE 0.25 to 0.33 ac 30 to 38% impervious	0.70		0.48	0.74	15	15	3.83	7.37	1.3	3.8	area inlet			2 year design
FF + EE		1.40	0.48	0.74	15	15	3.83	7.37	2.6	7.6		15	0.5	2 year design
CC 0.25 to 0.33 ac 30 to 38% impervious	1.90		0.48	0.74	15	15	3.83	7.37	3.5	10.4				100 year design
W + Y + BB1 +BB2 +FF + EE + CC		10.10	0.48	0.74	15	15	3.83	7.37	18.6	55.1	2-15	36	0.6	100 year design 23.4 cfs captured from 2 year design
DD 0.25 to 0.33 ac 30 to 38% impervious	2.30		0.48	0.74	15	15	3.83	7.37	4.2	12.5				100 year design
W + Y + BB1 +BB2 +FF + EE + CC + DD		12.40	0.48	0.74	15	15	3.83	7.37	22.8	67.6	15	42	0.5	100 year design