



0.93 Ac  
x 3.54 cfs/Ac  
3.29 cfs

1.72 Ac  
x 3.54 cfs/Ac  
6.09 cfs

1.07 Ac  
x 3.54 cfs/Ac  
3.79 cfs

0.42 Ac  
x 1.70 cfs/Ac  
0.71 cfs

0.12 Ac  
x 1.70 cfs/Ac  
0.20 cfs

0.02 Ac  
x 1.70 cfs/Ac  
0.03 cfs

0.91 Ac  
x 3.54 cfs/Ac  
3.22 cfs

3.58 Ac  
x 3.54 cfs/Ac  
12.67 cfs

0.03 Ac  
x 1.70 cfs/Ac  
0.05 cfs

0.17 Ac  
x 3.54 cfs/Ac  
0.60 cfs

0.05 Ac  
x 1.70 cfs/Ac  
0.08 cfs

0.04 Ac  
x 3.54 cfs/Ac  
0.14 cfs

0.05 Ac  
x 3.54 cfs/Ac  
0.18 cfs

0.10 Ac  
x 3.54 cfs/Ac  
0.35 cfs

0.05 Ac  
x 3.54 cfs/Ac  
0.18 cfs

0.03 Ac  
x 1.70 cfs/Ac  
0.05 cfs

0.72 Ac  
x 3.54 cfs/Ac  
2.54 cfs

0.20 Ac  
x 3.54 cfs/Ac  
0.71 cfs

0.04 Ac  
x 3.54 cfs/Ac  
0.14 cfs

0.06 Ac  
x 1.70 cfs/Ac  
0.10 cfs

0.25 Ac  
x 1.70 cfs/Ac  
0.42 cfs

15 YEAR STORM CALCULATIONS:  
A.) ORIGINAL RUNOFF DESIGN (CHURCH + SINGLE FAMILY)  
1) 3.6 Ac @ 95% IMPERVIOUS  
2) 1.3 Ac @ 50% IMPERVIOUS  
 $Q = [(3.6 \text{ Ac} \times 3.45 \text{ cfs/Ac}) + (1.3 \text{ Ac} \times 2.98 \text{ cfs/Ac})]$   
 $Q = 15.77 \text{ cfs}$

B.) PRESENT RUNOFF DESIGN (CHURCH)  
1) 3.4 Ac @ 100% IMPERVIOUS  
2) 1.5 Ac @ 5% IMPERVIOUS  
 $Q = [(3.4 \text{ Ac} \times 3.54 \text{ cfs/Ac}) + (1.5 \text{ Ac} \times 1.70 \text{ cfs/Ac})]$   
 $Q = 14.6 \text{ cfs}$   
PRESENT DEVELOPMENT STORM RUNOFF IS LESS THAN ORIGINAL MASTER PLAN.

FEMA MAP INFORMATION:  
MAP NO. = 2918300239 E  
DATE = AUGUST 02, 1996  
ZONE = "X" - OTHER AREAS  
AREAS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAN

NOTE: FOR DRAINAGE AREAS ONLY,  
NOT FOR CONSTRUCTION.

SUNRISE UNITED METHODIST CHURCH  
DRAINAGE AREA PLAN

STOCK & ASSOCIATES  
CONSULTING ENGINEERS, INC.

425 NORTH NEW BALLAS ROAD  
SUITE 165  
ST. LOUIS, MO. 63141  
PH. (314) 432-8100  
FAX (314) 432-8171  
e-mail: general@stockassoc.com



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