

Dr. Area = 76.4 acres
CN = 71, 38% Imp.
1/4 Acre Resid. Lots
 $T_c = 24$ min.

Dr. Area = 8.6 acres
CN = 61, 38% Imp.
1/4 Acre Resid. Lots
 $T_c = 15$ min.

Pond No. 2
Static Pool El. 1341⁰⁰
Surface Area @ St. Pool = 0.86 acres
Peak Flow In = 127 cfs
Peak Flow Out = 102 cfs
Peak Stage = 1344¹⁷

Pond No. 3
Static Pool El. 1335⁰⁰
Total Req'd Surf. Area (3 Ponds) @ Static Pool = 6.40 acres.
Peak Flow In = 401 cfs
Peak Flow Out = 99 cfs
Peak Stage = 1338⁵¹

Construct 6' Weir & Channel

Construct 5' Weir

Construct 8' Weir & Channel.

Pond No. 1 (Existing)
Static Pool El. 1345⁰⁰
Surf. Area @ St. Pool = 1.15 acres
Peak Flow In = 152 cfs
Peak Flow Out = 106 cfs
Peak Stage = 1347⁶⁹

Dr. Area = 11 acres
CN = 61, 38% Imp.
1/4 Acre Resid. Lots
 $T_c = 15$ min.

Dr. Area = 38 acres
CN = 61, 38% Imp.
1/4 Acre Resid. Lots
 $T_c = 24$ min.

Note: The maximum flow possible thru the 42" pipe is 110 cfs

Peak Flow = 110 cfs
42" RCP

From Existing Storm Sewer

100-YEAR DESIGN

8-24-92

FLOW CHART FOR COMPUTATIONS

Dr. Area = 76.4 acres
CN = 71, 38% Imp.
1/4 Acre Resid. Lots
 $T_c = 24$ min.

Dr. Area = 8.6 acres
CN = 61, 38% Imp.
1/4 Acre Resid. Lots
 $T_c = 15$ min.

Pond No. 3
Static Pool El. 1335⁰⁰
Total Req'd Surf. Area (3 Ponds) @ Static Pool = 6.40 acres.
Peak Flow In = 237 cfs
Peak Flow Out = 55 cfs
Peak Stage = 1337³⁷

Pond No. 2
Static Pool El. 1341⁰⁰
Surface Area @ St. Pool = 0.86 acres
Peak Flow In = 82 cfs
Peak Flow Out = 65 cfs
Peak Stage = 1343³⁴

Pond No. 1 (Existing)
Static Pool El. 1345⁰⁰
Surf. Area @ St. Pool = 1.15 acres
Peak Flow In = 105 cfs
Peak Flow Out = 71 cfs
Peak Stage = 1347⁰⁶

Dr. Area = 11 acres
CN = 61, 38% Imp.
1/4 Acre Resid. Lots
 $T_c = 15$ min.

Dr. Area = 38 acres
CN = 61, 38% Imp.
1/4 Acre Resid. lots
 $T_c = 24$ min.

Note: The maximum flow possible thru the 42" pipe is 110 cfs

Peak Flow 42" RCP = 81 cfs
From Existing Storm Sewer

Construct 6' Weir & Channel

Construct 5' Weir

Construct 8' Weir & Channel.

10-YEAR DESIGN

8-24-92

FLOW CHART FOR COMPUTATIONS