

Skimmer #9 (not used on this project) ✓

Skimmer Basin #1

03/19/19 KCG

Okay

567.5 Water Surface Elev.

3.24 Disturbed Area (Acres)
9.53568 Peak Flow from 10-year Storm (cfs)

$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 3.24 \text{ acres}$ ✓

5832 Required Volume ft^3
3099 Required Surface Area ft^2
39.4 Suggested Width ft
78.7 Suggested Length ft

32 Trial Top Width at Spillway Invert ft
97 Trial Top Length at Spillway Invert ft
2 Trial Side Slope Ratio Z:1
3.5 Trial Depth ft (2 to 3.5 feet above grade)

18 Bottom Width ft
83 Bottom Length ft
1494 Bottom Area ft^2
7932 Actual Volume ft^3
3104 Actual Surface Area ft^2

Okay

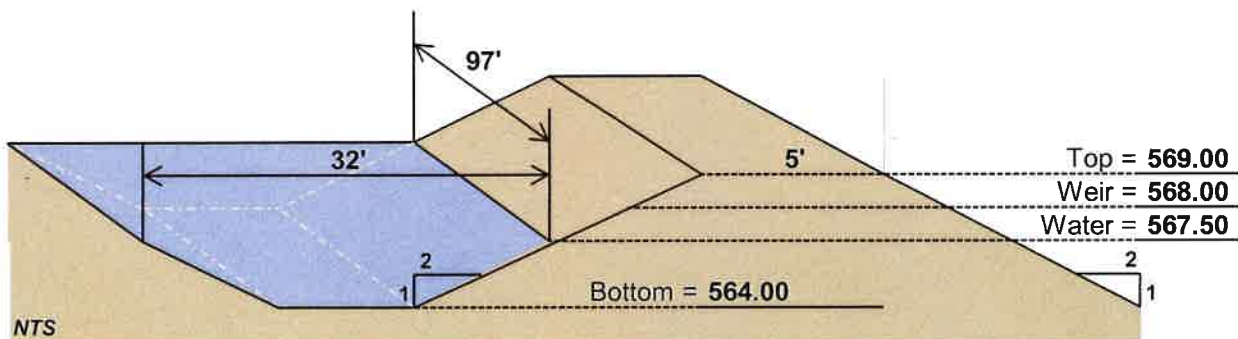
Okay

10 Trial Weir Length ft
0.5 Trial Depth of Flow ft
10.6 Spillway Capacity cfs

Okay

2 Skimmer Size (inches)
0.167 Head on Skimmer (feet)
1.5 Orifice Size (1/4 inch increments)
2.75 Dewatering Time (days)
Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #2

03/19/19 KCG

Okay

574.5 Water Surface Elev.

1.48 Disturbed Area (Acres)
3.65 Peak Flow from 10-year Storm (cfs)

$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 1.48 \text{ acres}$

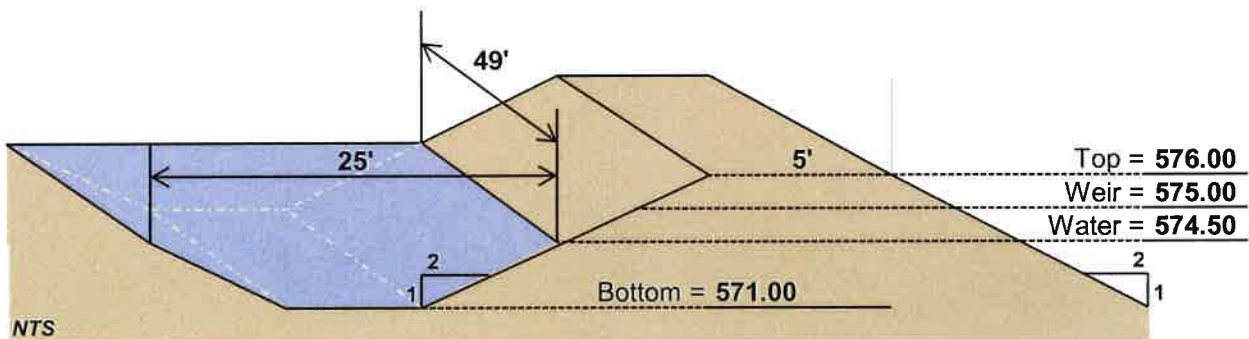
2664 Required Volume ft^3
1185 Required Surface Area ft^2
24.3 Suggested Width ft
48.7 Suggested Length ft

25 Trial Top Width at Spillway Invert ft
49 Trial Top Length at Spillway Invert ft
2 Trial Side Slope Ratio Z:1
3.5 Trial Depth ft (2 to 3.5 feet above grade)
11 Bottom Width ft
35 Bottom Length ft
385 Bottom Area ft^2
2703 Actual Volume ft^3 Okay
1225 Actual Surface Area ft^2 Okay

10 Trial Weir Length ft
0.5 Trial Depth of Flow ft
10.6 Spillway Capacity cfs Okay

2 Skimmer Size (inches)
0.167 Head on Skimmer (feet) 574.5
1 Orifice Size (1/4 inch increments)
2.82 Dewatering Time (days)
Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #3

03/19/19 KCG

Okay

575.5 Water Surface Elev.

3.62 Disturbed Area (Acres)
8.92 Peak Flow from 10-year Storm (cfs)

$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 3.62 \text{ acres}$

6516 Required Volume ft^3
2899 Required Surface Area ft^2
38.1 Suggested Width ft
76.1 Suggested Length ft

38 Trial Top Width at Spillway Invert ft
77 Trial Top Length at Spillway Invert ft
2 Trial Side Slope Ratio Z:1
3.5 Trial Depth ft (2 to 3.5 feet above grade)

24 Bottom Width ft
63 Bottom Length ft
1512 Bottom Area ft^2
7652 Actual Volume ft^3
2926 Actual Surface Area ft^2

Okay

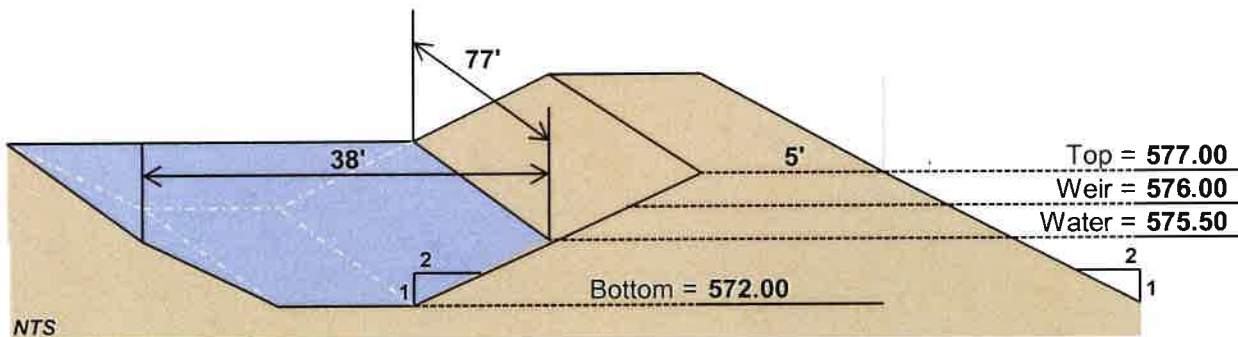
Okay

10 Trial Weir Length ft
0.5 Trial Depth of Flow ft
10.6 Spillway Capacity cfs

Okay

2 Skimmer Size (inches)
0.167 Head on Skimmer (feet)
1.5 Orifice Size (1/4 inch increments)
3.07 Dewatering Time (days)
Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #4

3/19/19 KCG

Okay

608 Water Surface Elev.

2.88 Disturbed Area (Acres)
7.10 Peak Flow from 10-year Storm (cfs)

$$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 2.88 \text{ acres}$$

5184 Required Volume ft³
2306 Required Surface Area ft²
34.0 Suggested Width ft
67.9 Suggested Length ft

34 Trial Top Width at Spillway Invert ft
68 Trial Top Length at Spillway Invert ft
2 Trial Side Slope Ratio Z:1
3.5 Trial Depth ft (2 to 3.5 feet above grade)

20 Bottom Width ft
54 Bottom Length ft
1080 Bottom Area ft²
5822 Actual Volume ft³
2312 Actual Surface Area ft²

Okay

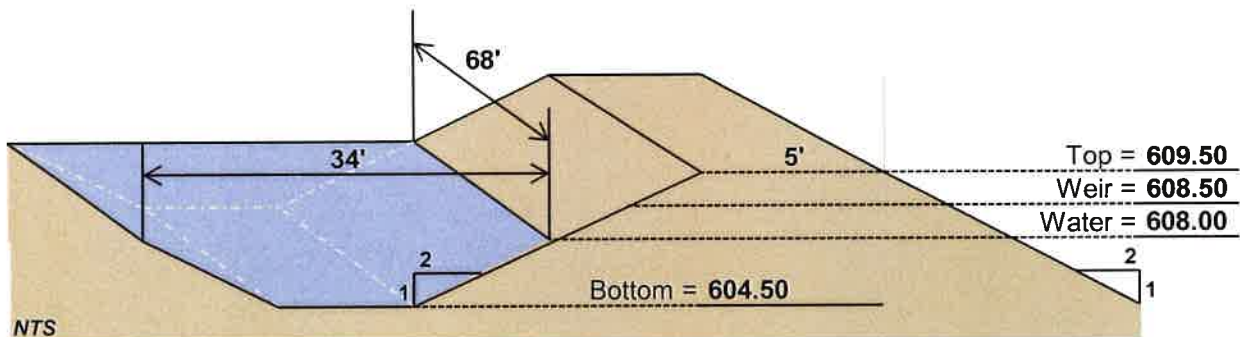
Okay

8 Trial Weir Length ft
0.5 Trial Depth of Flow ft
8.5 Spillway Capacity cfs

Okay

2 Skimmer Size (inches)
0.167 Head on Skimmer (feet)
1.25 Orifice Size (1/4 inch increments)
3.51 Dewatering Time (days)
Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #5

3/19/19 KCG

Okay

600.5 Water Surface Elev.

2.02 Disturbed Area (Acres)
4.98 Peak Flow from 10-year Storm (cfs)

$$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 2.02 \text{ acres}$$

3636 Required Volume ft^3
1618 Required Surface Area ft^2
28.4 Suggested Width ft
56.9 Suggested Length ft

26 Trial Top Width at Spillway Invert ft
65 Trial Top Length at Spillway Invert ft
2 Trial Side Slope Ratio Z:1
3.5 Trial Depth ft (2 to 3.5 feet above grade)

12 Bottom Width ft
51 Bottom Length ft
612 Bottom Area ft^2
3914 Actual Volume ft^3
1690 Actual Surface Area ft^2

Okay

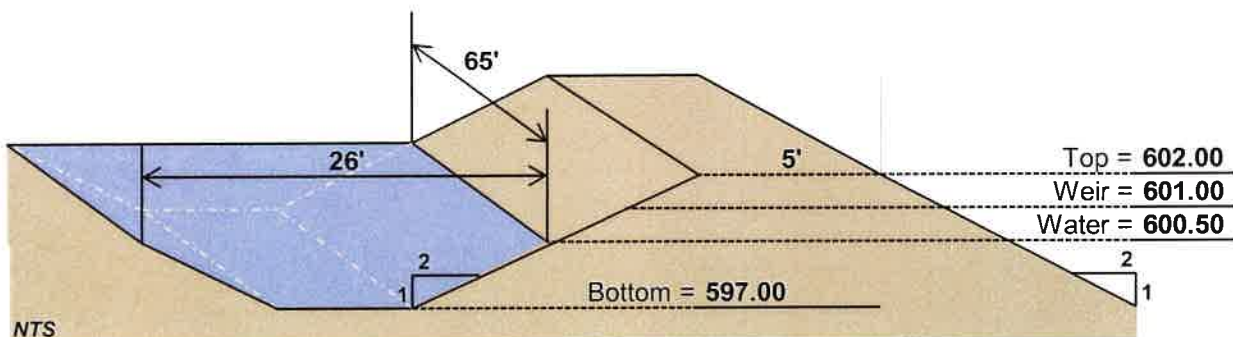
Okay

6 Trial Weir Length ft
0.5 Trial Depth of Flow ft
6.4 Spillway Capacity cfs

Okay

1.5 Skimmer Size (inches)
0.125 Head on Skimmer (feet)
1.25 Orifice Size (1/4 inch increments)
2.85 Dewatering Time (days)
Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #6

3/19/19 KCG

Okay

600 Water Surface Elev.

1.62 Disturbed Area (Acres)
3.99 Peak Flow from 10-year Storm (cfs)

$$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 1.62 \text{ acres}$$

2916 Required Volume ft^3
1297 Required Surface Area ft^2
25.5 Suggested Width ft
50.9 Suggested Length ft

27 Trial Top Width at Spillway Invert ft
52 Trial Top Length at Spillway Invert ft
2 Trial Side Slope Ratio Z:1
3 Trial Depth ft (2 to 3.5 feet above grade)

15 Bottom Width ft
40 Bottom Length ft
600 Bottom Area ft^2
2934 Actual Volume ft^3
1404 Actual Surface Area ft^2

Okay

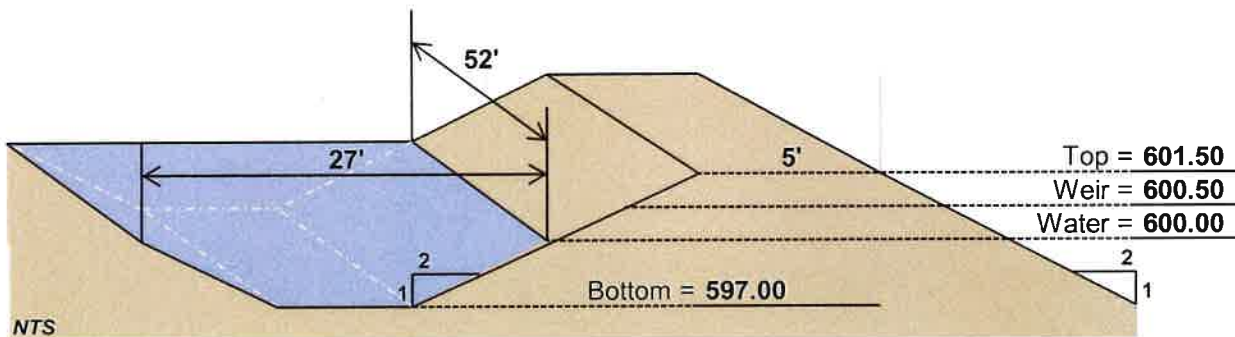
Okay

4 Trial Weir Length ft
0.5 Trial Depth of Flow ft
4.2 Spillway Capacity cfs

Okay

1.5 Skimmer Size (inches)
0.125 Head on Skimmer (feet)
1 Orifice Size (1/4 inch increments)
3.57 Dewatering Time (days)
Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #7

3/19/19 KCG

Okay

605 Water Surface Elev.

2.07 Disturbed Area (Acres)
5.10 Peak Flow from 10-year Storm (cfs)

$$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 2.07 \text{ acres}$$

3726 Required Volume ft³
1658 Required Surface Area ft²
28.8 Suggested Width ft
57.6 Suggested Length ft

29 Trial Top Width at Spillway Invert ft
58 Trial Top Length at Spillway Invert ft
2 Trial Side Slope Ratio Z:1
3.5 Trial Depth ft (2 to 3.5 feet above grade)

15 Bottom Width ft
44 Bottom Length ft
660 Bottom Area ft²
3984 Actual Volume ft³
1682 Actual Surface Area ft²

Okay

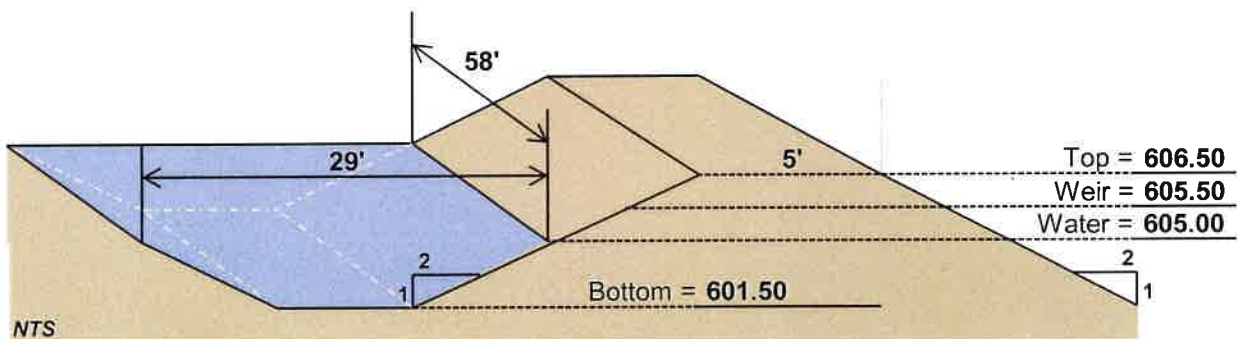
Okay

5 Trial Weir Length ft
0.5 Trial Depth of Flow ft
5.3 Spillway Capacity cfs

Okay

1.5 Skimmer Size (inches)
0.125 Head on Skimmer (feet)
1.25 Orifice Size (1/4 inch increments)
2.92 Dewatering Time (days)
Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #8

03/19/19 KCG

Okay

616.5 Water Surface Elev.

4.86 Disturbed Area (Acres)
11.98 Peak Flow from 10-year Storm (cfs)

$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 4.86 \text{ acres}$

8748 Required Volume ft^3
3892 Required Surface Area ft^2
44.1 Suggested Width ft
88.2 Suggested Length ft

45 Trial Top Width at Spillway Invert ft
88 Trial Top Length at Spillway Invert ft
2 Trial Side Slope Ratio Z:1
3.5 Trial Depth ft (2 to 3.5 feet above grade)

31 Bottom Width ft
74 Bottom Length ft
2294 Bottom Area ft^2
10830 Actual Volume ft^3
3960 Actual Surface Area ft^2

Okay

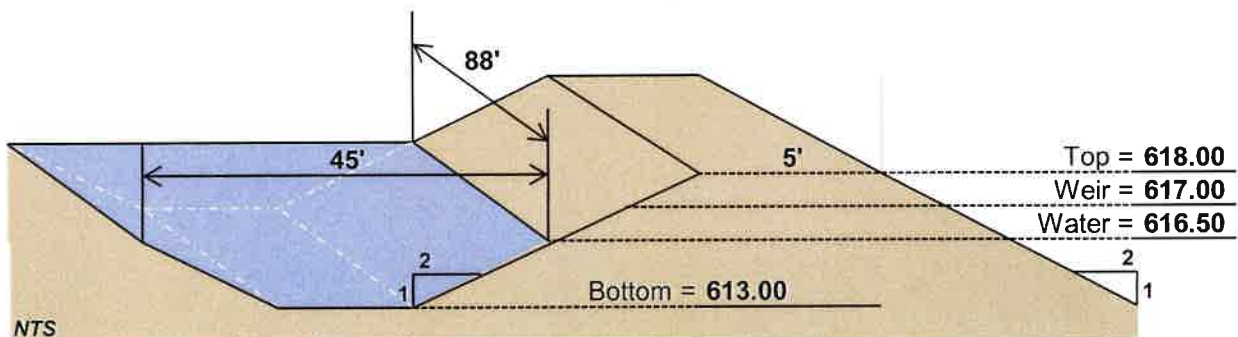
Okay

12 Trial Weir Length ft
0.5 Trial Depth of Flow ft
12.7 Spillway Capacity cfs

Okay

2 Skimmer Size (inches)
0.167 Head on Skimmer (feet)
1.75 Orifice Size (1/4 inch increments)
3.03 Dewatering Time (days)
Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



(SK9 not used on this project)

✓

Skimmer Basin #10

03/19/19 KCG

Okay

593.5 Water Surface Elev.

1.29 Disturbed Area (Acres)
3.18 Peak Flow from 10-year Storm (cfs)

$$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 1.29 \text{ acres}$$

✓

2322 Required Volume ft^3
1033 Required Surface Area ft^2
22.7 Suggested Width ft
45.5 Suggested Length ft

23 Trial Top Width at Spillway Invert ft
57 Trial Top Length at Spillway Invert ft
2 Trial Side Slope Ratio Z:1
3.5 Trial Depth ft (2 to 3.5 feet above grade)

9 Bottom Width ft
43 Bottom Length ft
387 Bottom Area ft^2
2857 Actual Volume ft^3
1311 Actual Surface Area ft^2

Okay

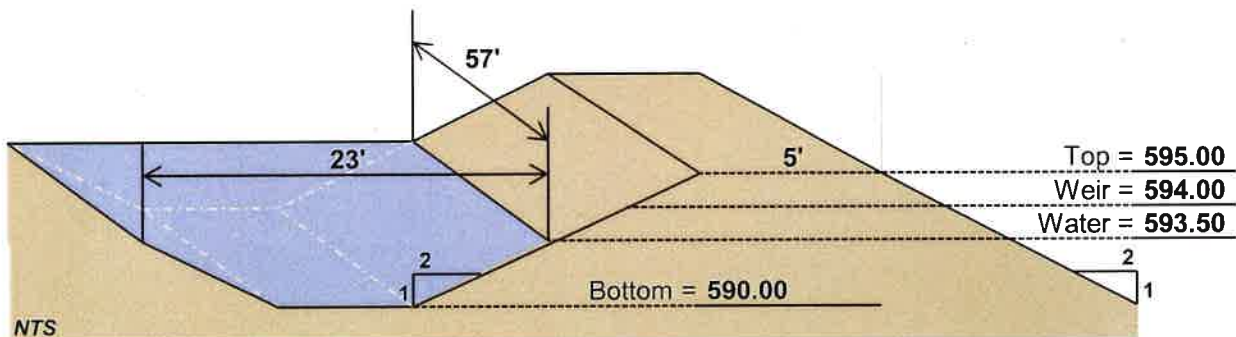
Okay

4 Trial Weir Length ft
0.5 Trial Depth of Flow ft
4.2 Spillway Capacity cfs

Okay

1.5 Skimmer Size (inches)
0.125 Head on Skimmer (feet)
1 Orifice Size (1/4 inch increments)
2.84 Dewatering Time (days)
Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #11

03/19/19 KCG

Okay

592.00 Water Surface Elev.

3.58 Disturbed Area (Acres)
8.82112 Peak Flow from 10-year Storm (cfs)

$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 3.58 \text{ acres}$

6444 Required Volume ft^3
2867 Required Surface Area ft^2
37.9 Suggested Width ft
75.7 Suggested Length ft

38 Trial Top Width at Spillway Invert ft
76 Trial Top Length at Spillway Invert ft
2 Trial Side Slope Ratio Z:1
3.5 Trial Depth ft (2 to 3.5 feet above grade)
20 Bottom Width ft
58 Bottom Length ft
1160 Bottom Area ft^2
6895 Actual Volume ft^3
2888 Actual Surface Area ft^2

Okay

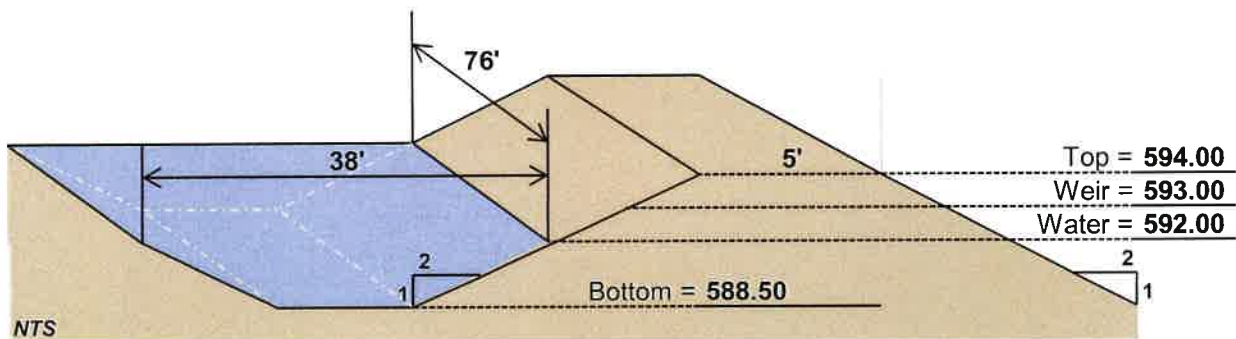
Okay

4 Trial Weir Length ft
1 Trial Depth of Flow ft
12.0 Spillway Capacity cfs

Okay

2 Skimmer Size (inches)
0.167 Head on Skimmer (feet)
1.5 Orifice Size (1/4 inch increments)
3.03 Dewatering Time (days)
Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #12

3/19/2019 KCG

Okay

586 Water Surface Elev.

7.7 Disturbed Area (Acres)
18.97 Peak Flow from 10-year Storm (cfs)

$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 7.7 \text{ acres}$

13860 Required Volume ft^3
6166 Required Surface Area ft^2
55.5 Suggested Width ft
111.1 Suggested Length ft

56 Trial Top Width at Spillway Invert ft
111 Trial Top Length at Spillway Invert ft
2 Trial Side Slope Ratio Z:1
3.5 Trial Depth ft (2 to 3.5 feet above grade)

38 Bottom Width ft
93 Bottom Length ft
3534 Bottom Area ft^2
16874 Actual Volume ft^3
6216 Actual Surface Area ft^2

Okay

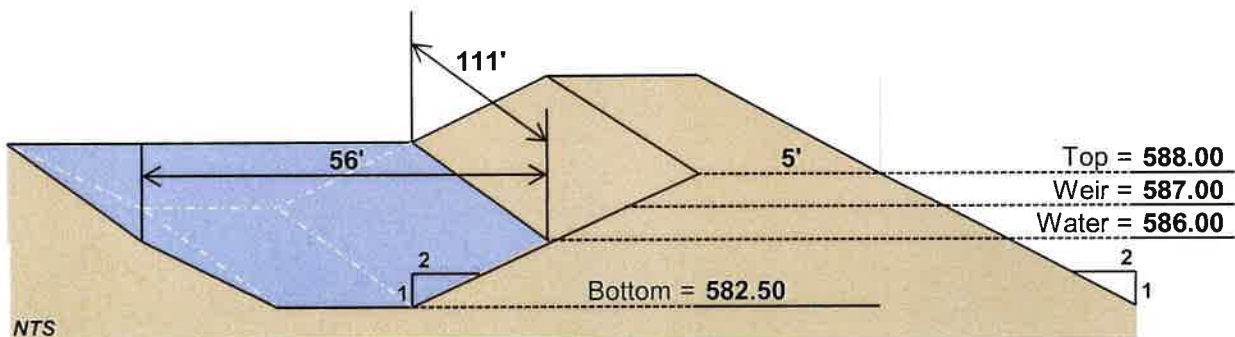
Okay

7 Trial Weir Length ft
1 Trial Depth of Flow ft
21.0 Spillway Capacity cfs

Okay

3 Skimmer Size (inches)
0.25 Head on Skimmer (feet)
2 Orifice Size (1/4 inch increments)
3.00 Dewatering Time (days)
Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #13

03/19/19 KCG

Okay

594 Water Surface Elev.

3.45 Disturbed Area (Acres)

8.50 Peak Flow from 10-year Storm (cfs)

$Q = .35 \times 7.04 \text{ in/hr} \times 3.45 \text{ ac}$

6210 Required Volume ft^3

2763 Required Surface Area ft^2

37.2 Suggested Width ft

74.3 Suggested Length ft

37 Trial Top Width at Spillway Invert ft

75 Trial Top Length at Spillway Invert ft

2 Trial Side Slope Ratio Z:1

3 Trial Depth ft (2 to 3.5 feet above grade)

25 Bottom Width ft

63 Bottom Length ft

1575 Bottom Area ft^2

6453 Actual Volume ft^3

2775 Actual Surface Area ft^2

Okay

Okay

9 Trial Weir Length ft

0.5 Trial Depth of Flow ft

9.5 Spillway Capacity cfs

Okay

2 Skimmer Size (inches)

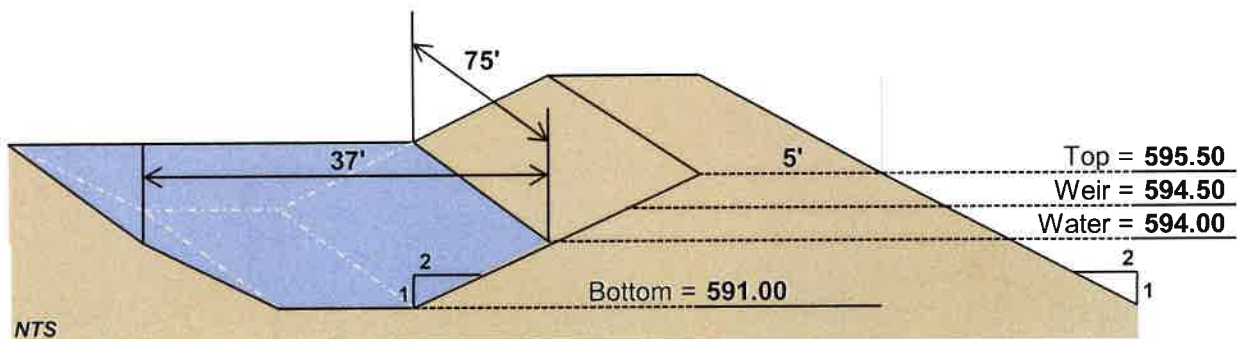
0.167 Head on Skimmer (feet)

1.5 Orifice Size (1/4 inch increments)

2.92 Dewatering Time (days)

Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #14

03/19/19 KCG

Okay

604.5 Water Surface Elev.

4.28 Disturbed Area (Acres)

10.55 Peak Flow from 10-year Storm (cfs)

$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 4.28 \text{ acres}$

7704 Required Volume ft^3

3427 Required Surface Area ft^2

41.4 Suggested Width ft

82.8 Suggested Length ft

36 Trial Top Width at Spillway Invert ft

100 Trial Top Length at Spillway Invert ft

2 Trial Side Slope Ratio Z:1

3 Trial Depth ft (2 to 3.5 feet above grade)

24 Bottom Width ft

88 Bottom Length ft

2112 Bottom Area ft^2

8496 Actual Volume ft^3

Okay

3600 Actual Surface Area ft^2

Okay

11 Trial Weir Length ft

0.5 Trial Depth of Flow ft

11.7 Spillway Capacity cfs

Okay

3 Skimmer Size (inches)

0.25 Head on Skimmer (feet)

1.5 Orifice Size (1/4 inch increments)

2.96 Dewatering Time (days)

Suggest about 3 days

Skimmer Size

(Inches)

1.5

2

2.5

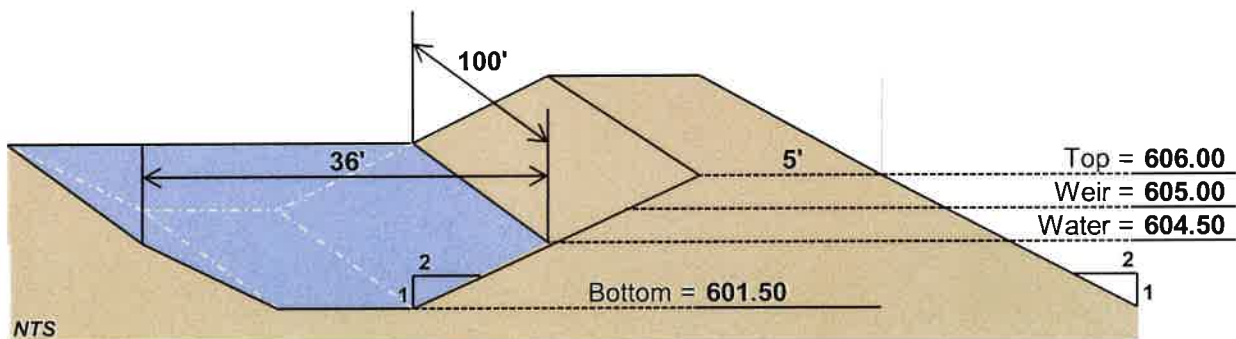
3

4

5

6

8



Skimmer Basin #15

03/19/19 KCG

Okay

593.5 Water Surface Elev.

8.52 Disturbed Area (Acres)
20.99 Peak Flow from 10-year Storm (cfs)

$$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 8.52 \text{ acres}$$

15336 Required Volume ft^3
6823 Required Surface Area ft^2
58.4 Suggested Width ft
116.8 Suggested Length ft

60 Trial Top Width at Spillway Invert ft
117 Trial Top Length at Spillway Invert ft
3 Trial Side Slope Ratio Z:1
3.5 Trial Depth ft (2 to 3.5 feet above grade)

39 Bottom Width ft
96 Bottom Length ft
3744 Bottom Area ft^2
18580 Actual Volume ft^3
7020 Actual Surface Area ft^2

Okay

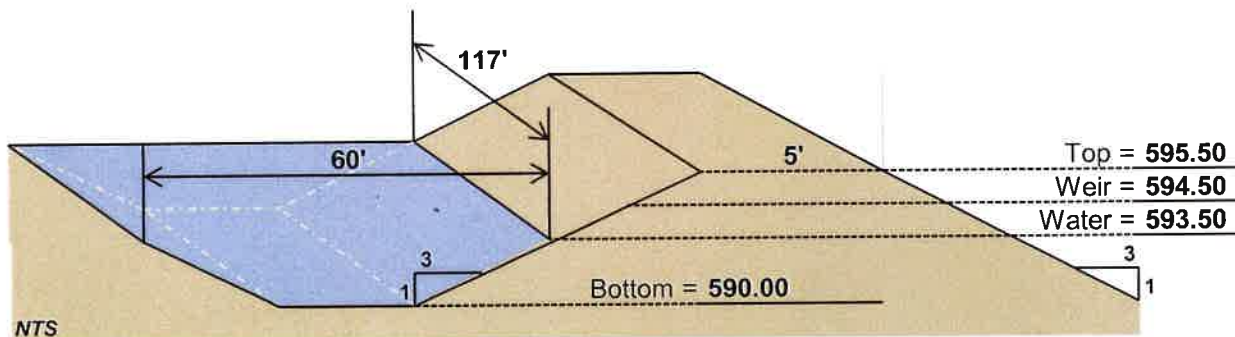
Okay

8 Trial Weir Length ft
1 Trial Depth of Flow ft
24.0 Spillway Capacity cfs

Okay

5 Skimmer Size (inches)
0.333 Head on Skimmer (feet)
1.75 Orifice Size (1/4 inch increments)
3.76 Dewatering Time (days)
Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #16

03/19/19 KCG

Okay

574 Water Surface Elev.

3.29 Disturbed Area (Acres)

8.11 Peak Flow from 10-year Storm (cfs)

$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 3.29 \text{ acres}$

5922 Required Volume ft^3

2635 Required Surface Area ft^2

36.3 Suggested Width ft

72.6 Suggested Length ft

40 Trial Top Width at Spillway Invert ft

75 Trial Top Length at Spillway Invert ft

3 Trial Side Slope Ratio Z:1

3 Trial Depth ft (2 to 3.5 feet above grade)

22 Bottom Width ft

57 Bottom Length ft

1254 Bottom Area ft^2

6219 Actual Volume ft^3

3000 Actual Surface Area ft^2

Okay

Okay

3 Trial Weir Length ft

1 Trial Depth of Flow ft

9.0 Spillway Capacity cfs

Okay

2 Skimmer Size (inches)

0.167 Head on Skimmer (feet)

1.5 Orifice Size (1/4 inch increments)

2.79 Dewatering Time (days)

Suggest about 3 days

Skimmer Size

(Inches)

1.5

2

2.5

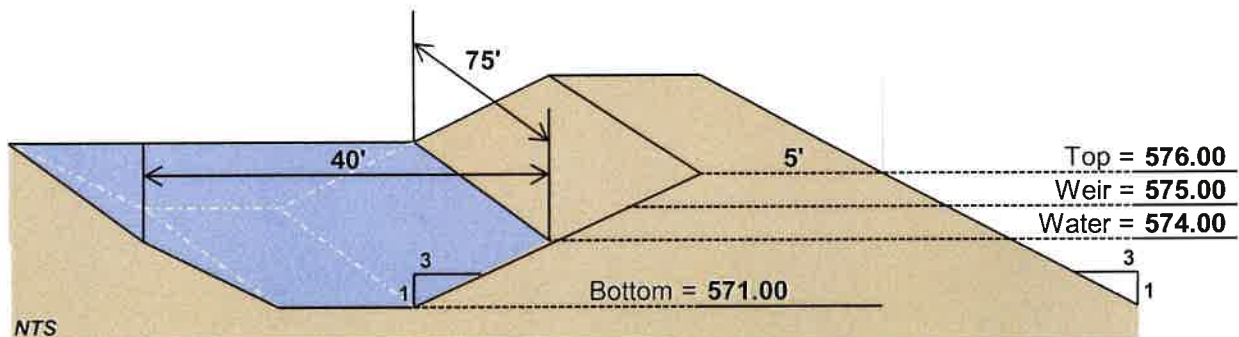
3

4

5

6

8



Skimmer Basin #17

03/19/19 KCG

Okay

623 Water Surface Elev.

4.51 Disturbed Area (Acres)
11.11 Peak Flow from 10-year Storm (cfs)

$$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 4.51 \text{ acres}$$

8118 Required Volume ft^3
3612 Required Surface Area ft^2
42.5 Suggested Width ft
85.0 Suggested Length ft

50 Trial Top Width at Spillway Invert ft
75 Trial Top Length at Spillway Invert ft
3 Trial Side Slope Ratio Z:1
3 Trial Depth ft (2 to 3.5 feet above grade)

32 Bottom Width ft
57 Bottom Length ft
1824 Bottom Area ft^2
8199 Actual Volume ft^3
3750 Actual Surface Area ft^2

Okay

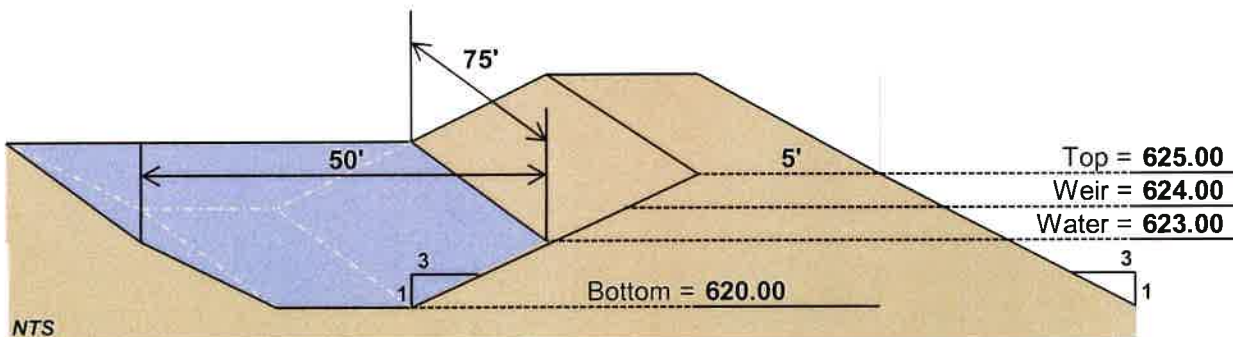
Okay

4 Trial Weir Length ft
1 Trial Depth of Flow ft
12.0 Spillway Capacity cfs

Okay

3 Skimmer Size (inches)
0.25 Head on Skimmer (feet)
1.5 Orifice Size (1/4 inch increments)
3.12 Dewatering Time (days)
Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #18

03/19/19 KCG

Okay

623.5 Water Surface Elev.

2.51 Disturbed Area (Acres)
6.18 Peak Flow from 10-year Storm (cfs)

$$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 2.51 \text{ acres}$$

4518 Required Volume ft^3
2010 Required Surface Area ft^2
31.7 Suggested Width ft
63.4 Suggested Length ft

35 Trial Top Width at Spillway Invert ft
67 Trial Top Length at Spillway Invert ft
3 Trial Side Slope Ratio Z:1
3 Trial Depth ft (2 to 3.5 feet above grade)

17 Bottom Width ft
49 Bottom Length ft
833 Bottom Area ft^2
4605 Actual Volume ft^3
2345 Actual Surface Area ft^2

Okay

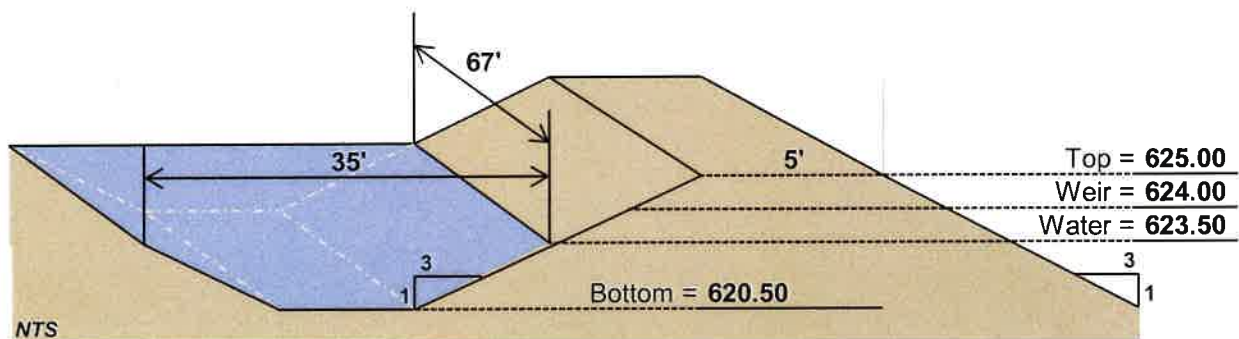
Okay

6 Trial Weir Length ft
0.5 Trial Depth of Flow ft
6.4 Spillway Capacity cfs

Okay

2 Skimmer Size (inches)
0.167 Head on Skimmer (feet)
1.25 Orifice Size (1/4 inch increments)
3.06 Dewatering Time (days)
Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #19

05/07/19 PAS

Okay

626 Water Surface Elev.

4.34 Disturbed Area (Acres)
10.69 Peak Flow from 10-year Storm (cfs)

$$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 4.34 \text{ acres}$$

7812 Required Volume ft^3
3475 Required Surface Area ft^2
41.7 Suggested Width ft
83.4 Suggested Length ft

42 Trial Top Width at Spillway Invert ft
88 Trial Top Length at Spillway Invert ft
3 Trial Side Slope Ratio Z:1
3 Trial Depth ft (2 to 3.5 feet above grade)
24 Bottom Width ft
70 Bottom Length ft
1680 Bottom Area ft^2
7902 Actual Volume ft^3
3696 Actual Surface Area ft^2

Okay

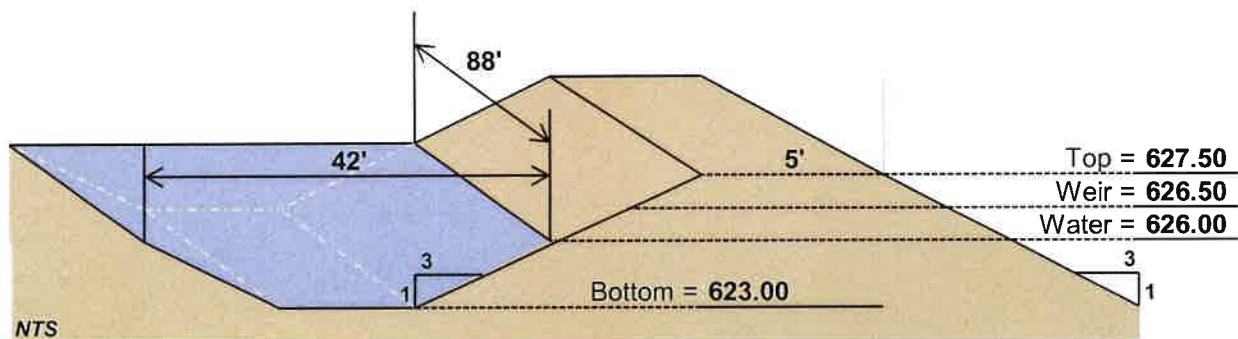
Okay

11 Trial Weir Length ft
0.5 Trial Depth of Flow ft
11.7 Spillway Capacity cfs

Okay

1.5 Skimmer Size (inches)
0.125 Head on Skimmer (feet)
1.75 Orifice Size (1/4 inch increments)
3.12 Dewatering Time (days)
Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #20

05/07/19 PAS

Okay

616 Water Surface Elev.

2.85 Disturbed Area (Acres)
8.08 Peak Flow from 10-year Storm (cfs)

$$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 3.28 \text{ acres}$$

5130 Required Volume ft³
2627 Required Surface Area ft²
36.2 Suggested Width ft
72.5 Suggested Length ft

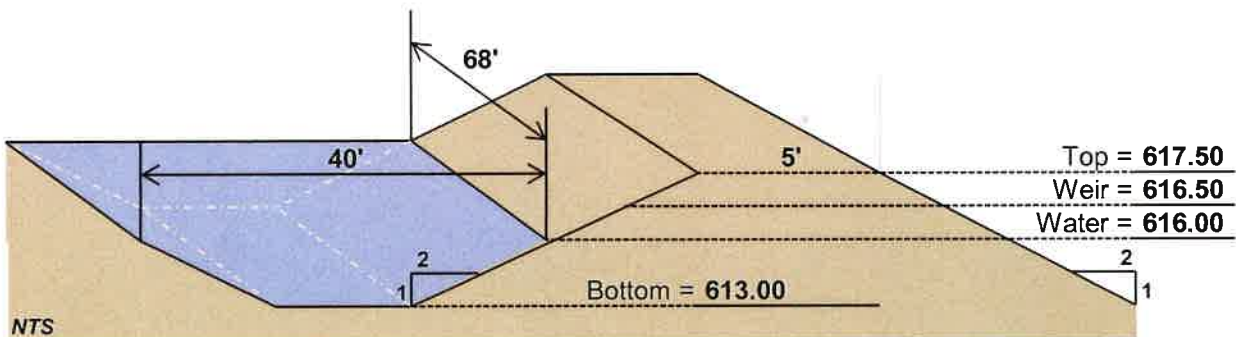
40 Trial Top Width at Spillway Invert ft
68 Trial Top Length at Spillway Invert ft
2 Trial Side Slope Ratio Z:1
3 Trial Depth ft (2 to 3.5 feet above grade)
28 Bottom Width ft
56 Bottom Length ft
1568 Bottom Area ft²
6360 Actual Volume ft³ Okay
2720 Actual Surface Area ft² Okay

8 Trial Weir Length ft
0.5 Trial Depth of Flow ft
8.5 Spillway Capacity cfs

Okay

2 Skimmer Size (inches)
0.167 Head on Skimmer (feet)
1.25 Orifice Size (1/4 inch increments)
3.48 Dewatering Time (days)
Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #21

03/19/19 KCG

Okay

617.5 Water Surface Elev.

2.46 Disturbed Area (Acres)
6.06 Peak Flow from 10-year Storm (cfs)

$$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 2.46 \text{ acres}$$

4428 Required Volume ft³
1970 Required Surface Area ft²
31.4 Suggested Width ft
62.8 Suggested Length ft

32 Trial Top Width at Spillway Invert ft
63 Trial Top Length at Spillway Invert ft
2 Trial Side Slope Ratio Z:1
3 Trial Depth ft (2 to 3.5 feet above grade)

20 Bottom Width ft
51 Bottom Length ft
1020 Bottom Area ft²
4482 Actual Volume ft³
2016 Actual Surface Area ft²

Okay

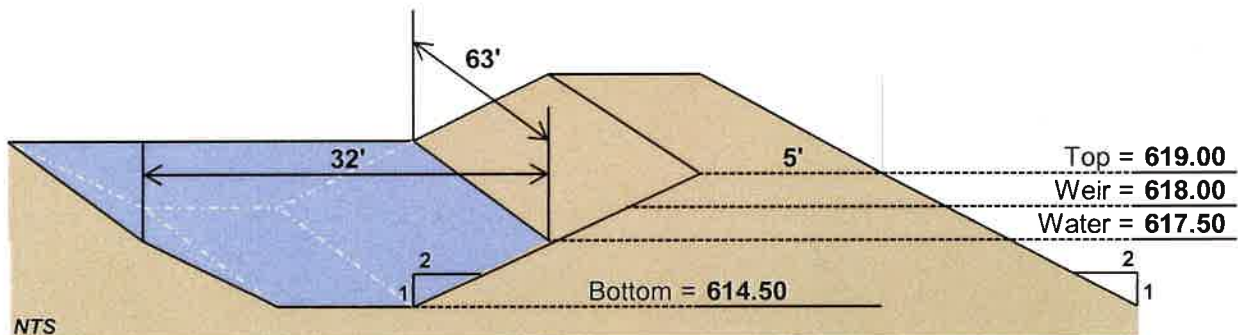
Okay

6 Trial Weir Length ft
0.5 Trial Depth of Flow ft
6.4 Spillway Capacity cfs

Okay

2 Skimmer Size (inches)
0.167 Head on Skimmer (feet)
1.25 Orifice Size (1/4 inch increments)
3.00 Dewatering Time (days)
Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #22

03/19/19 KCG

Okay

607 Water Surface Elev.

1.39 Disturbed Area (Acres)
3.42 Peak Flow from 10-year Storm (cfs)

$$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 1.39 \text{ acres}$$

2502 Required Volume ft^3
1113 Required Surface Area ft^2
23.6 Suggested Width ft
47.2 Suggested Length ft

25 Trial Top Width at Spillway Invert ft
50 Trial Top Length at Spillway Invert ft
2 Trial Side Slope Ratio Z:1
3 Trial Depth ft (2 to 3.5 feet above grade)

13 Bottom Width ft
38 Bottom Length ft
494 Bottom Area ft^2
2544 Actual Volume ft^3
1250 Actual Surface Area ft^2

Okay

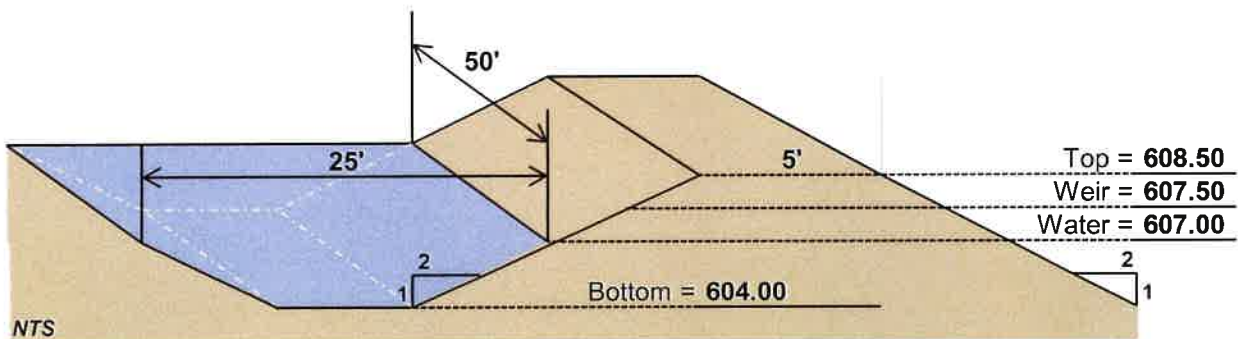
Okay

4 Trial Weir Length ft
0.5 Trial Depth of Flow ft
4.2 Spillway Capacity cfs

Okay

1.5 Skimmer Size (inches)
0.125 Head on Skimmer (feet)
1 Orifice Size (1/4 inch increments)
3.06 Dewatering Time (days)
Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #23

05/02/19 PAS

Okay

605 Water Surface Elev.

6.15 Disturbed Area (Acres)

15.15 Peak Flow from 10-year Storm (cfs)

$$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 6.15 \text{ acres}$$

11070 Required Volume ft³

4925 Required Surface Area ft²

49.6 Suggested Width ft

99.2 Suggested Length ft

50 Trial Top Width at Spillway Invert ft

100 Trial Top Length at Spillway Invert ft

2 Trial Side Slope Ratio Z:1

3 Trial Depth ft (2 to 3.5 feet above grade)

38 Bottom Width ft

88 Bottom Length ft

3344 Bottom Area ft²

12444 Actual Volume ft³

5000 Actual Surface Area ft²

Okay

Okay

16 Trial Weir Length ft

0.5 Trial Depth of Flow ft

17.0 Spillway Capacity cfs

Okay

3 Skimmer Size (inches)

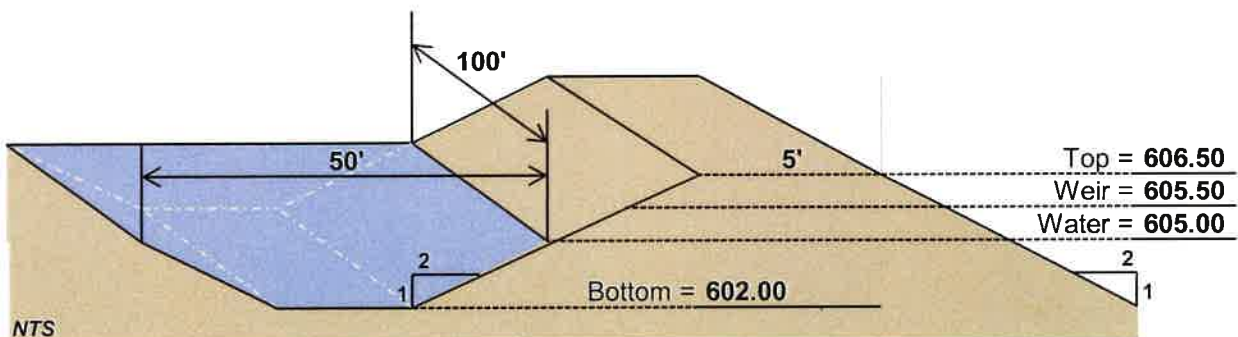
0.25 Head on Skimmer (feet)

1.75 Orifice Size (1/4 inch increments)

3.13 Dewatering Time (days)

Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #24

05/02/19 PAS

Okay

623 Water Surface Elev.

6.65 Disturbed Area (Acres)
16.39 Peak Flow from 10-year Storm (cfs)

$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 6.65 \text{ acres}$

11970 Required Volume ft^3
5325 Required Surface Area ft^2
51.6 Suggested Width ft
103.2 Suggested Length ft

50 Trial Top Width at Spillway Invert ft
107 Trial Top Length at Spillway Invert ft
2 Trial Side Slope Ratio Z:1
3 Trial Depth ft (2 to 3.5 feet above grade)

38 Bottom Width ft
95 Bottom Length ft
3610 Bottom Area ft^2
13368 Actual Volume ft^3
5350 Actual Surface Area ft^2

Okay

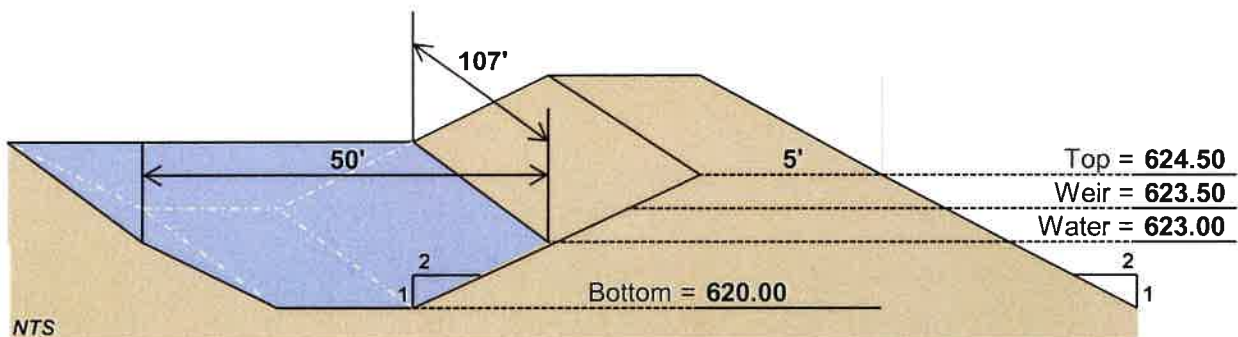
Okay

16 Trial Weir Length ft
0.5 Trial Depth of Flow ft
17.0 Spillway Capacity cfs

Okay

3 Skimmer Size (inches)
0.25 Head on Skimmer (feet)
1.75 Orifice Size (1/4 inch increments)
3.38 Dewatering Time (days)
Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #25

05/02/19 PAS

Okay

635 Water Surface Elev.

1.6 Disturbed Area (Acres)
3.94 Peak Flow from 10-year Storm (cfs)

$$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 1.60 \text{ acres}$$

2880 Required Volume ft^3
1281 Required Surface Area ft^2
25.3 Suggested Width ft
50.6 Suggested Length ft

25 Trial Top Width at Spillway Invert ft
56 Trial Top Length at Spillway Invert ft
2 Trial Side Slope Ratio Z:1
3 Trial Depth ft (2 to 3.5 feet above grade)

13 Bottom Width ft
44 Bottom Length ft
572 Bottom Area ft^2
2886 Actual Volume ft^3
1400 Actual Surface Area ft^2

Okay

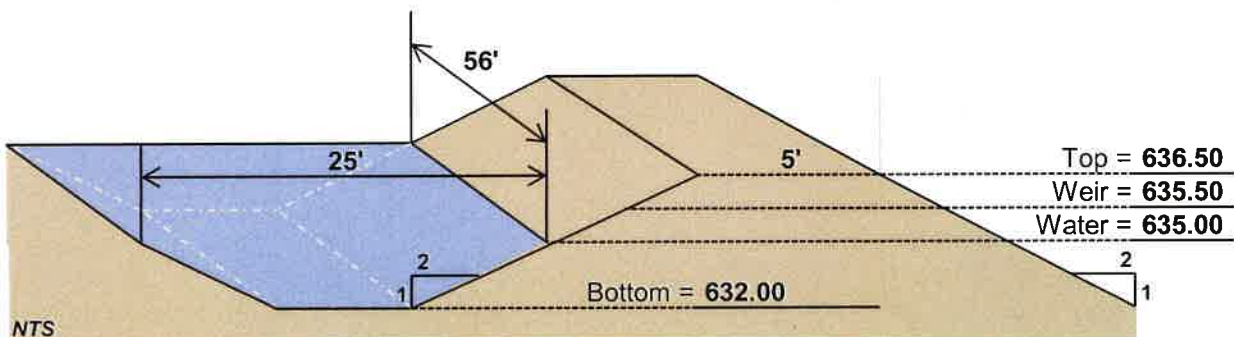
Okay

4 Trial Weir Length ft
0.5 Trial Depth of Flow ft
4.2 Spillway Capacity cfs

Okay

2 Skimmer Size (inches)
0.167 Head on Skimmer (feet)
1 Orifice Size (1/4 inch increments)
3.05 Dewatering Time (days)
Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #26

05/02/19 PAS

Okay

618 Water Surface Elev.

6.79 Disturbed Area (Acres)

16.73 Peak Flow from 10-year Storm (cfs)

$$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 6.79 \text{ acres}$$

12222 Required Volume ft^3

5437 Required Surface Area ft^2

52.1 Suggested Width ft

104.3 Suggested Length ft

53 Trial Top Width at Spillway Invert ft

105 Trial Top Length at Spillway Invert ft

2 Trial Side Slope Ratio Z:1

3 Trial Depth ft (2 to 3.5 feet above grade)

41 Bottom Width ft

93 Bottom Length ft

3813 Bottom Area ft^2

13995 Actual Volume ft^3

5565 Actual Surface Area ft^2

Okay

Okay

16 Trial Weir Length ft

0.5 Trial Depth of Flow ft

17.0 Spillway Capacity cfs

Okay

3 Skimmer Size (inches)

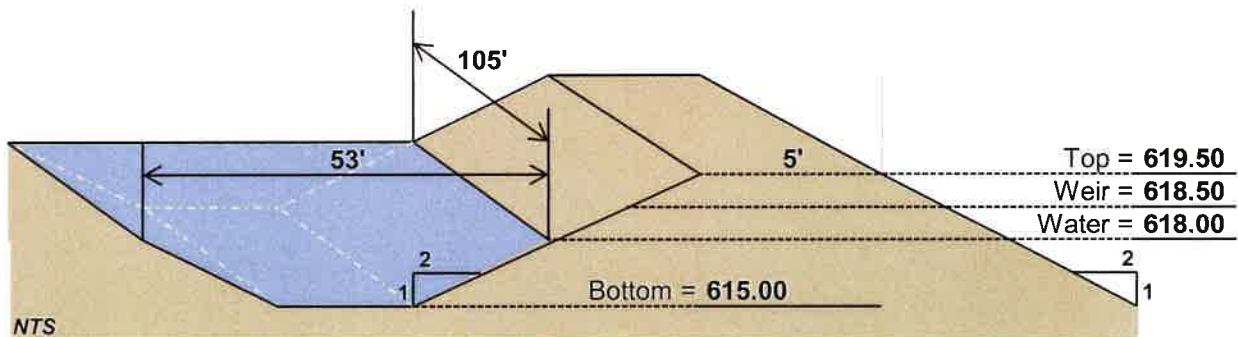
0.25 Head on Skimmer (feet)

1.75 Orifice Size (1/4 inch increments)

3.46 Dewatering Time (days)

Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8



Skimmer Basin #27

05/02/19 PAS

Okay

622 Water Surface Elev.

3.33 Disturbed Area (Acres)

8.21 Peak Flow from 10-year Storm (cfs)

$$Q_{10} = C I A = .35 \times 7.04 \text{ in/hr} \times 3.33 \text{ acres}$$

5994 Required Volume ft^3

2667 Required Surface Area ft^2

36.5 Suggested Width ft

73.0 Suggested Length ft

34 Trial Top Width at Spillway Invert ft

80 Trial Top Length at Spillway Invert ft

2 Trial Side Slope Ratio Z:1

3 Trial Depth ft (2 to 3.5 feet above grade)

22 Bottom Width ft

68 Bottom Length ft

1496 Bottom Area ft^2

6252 Actual Volume ft^3

Okay

2720 Actual Surface Area ft^2

Okay

8 Trial Weir Length ft

0.5 Trial Depth of Flow ft

8.5 Spillway Capacity cfs

Okay

3 Skimmer Size (inches)

0.25 Head on Skimmer (feet)

1.25 Orifice Size (1/4 inch increments)

3.32 Dewatering Time (days)

Suggest about 3 days

Skimmer Size (Inches)
1.5
2
2.5
3
4
5
6
8

