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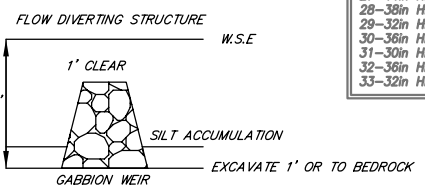
- OPTION 1 NOTES**
- APPROXIMATELY 1,871 LINEAR FEET OF ACCESS ROAD REQUIRED.
 - TWO CULVERT CROSSINGS REQUIRED.
 - APPROXIMATELY 17,469 SQ. FT. (0.40 AC.) OF WETLAND IMPACTS

PROS

- ASSUMPTIONS OF THIS APPROACH ARE CONSISTENT WITH ASSUMPTIONS OF JULY 2008 REPORT ENTITLED LAKE MONTCLAIR SEDIMENTATION CONTROL FEASIBILITY STUDY BY WHITMAN, REQUARDT AND ASSOCIATES, LLP (WRA) FOR IN LAKE OPTION WHICH IS THE PREFERRED OPTION/LOCATION PER THE REPORT.
- SEDIMENT VOLUME PROVIDED EXCEEDS THE ASSUMED SEDIMENT LOADING FROM POWELLS CREEK (1,200 TO 1,800 CY PER WRA REPORT).
- TOTAL VOLUME PROVIDED (2,370 C.Y.) EXCEEDS THE REQUIRED VOLUME (2,300 C.Y.) PER WRA REPORT.

CONS

- EXCESSIVE GRADING FOR ACCESS ROAD.
- ACCESS ROAD HAS SIGNIFICANT SLOPE.
- ACCESS ROAD TO BE VISIBLE FROM TOWNHOUSES LOCATED NEAR THE END OF THE ACCESS ROAD.
- ACCESS ROAD HAS TO CROSS AN EXISTING GAS LINE.
- THE TYPICAL FOREBAY VOLUME REQUIRED FOR THE CONTRIBUTING DRAINAGE AREA IS APPROXIMATELY 129,067 C.Y. THE VOLUME PROVIDED IS 1.83% OF THE REQUIRED VOLUME.
- SIGNIFICANT COST OF ROAD VS FACILITY.
- MINOR WETLAND DISTURBANCE, LIKELY WILL REQUIRE MITIGATION.



EXISTING TREE SURVEY

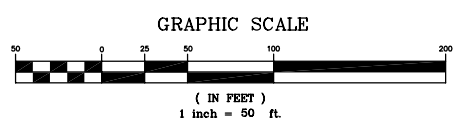
1-8in Locust	34-40in Hickory
2-24in Maple	35-32in Hickory
3-30in Maple	36-30in Hickory
4-24in Poplar	37-30in Hickory
5-20in Birch	38-30in Hickory
6-36in Maple	39-30in Hickory
7-24in Maple	40-27in Maple
8-30in Poplar	41-30in Maple
9-24in Maple	42-30in Maple
10-36in Poplar	43-26in Maple
11-24in Maple	44-30in Maple
12-38in Hickory	45-32in Maple
13-22in Maple	46-30in Hickory
14-24in Hickory	47-36in Sycamore
15-26in Oak	48-42in Maple
16-44in Oak	49-36in Sycamore
17-44in Oak	50-36in Sycamore
18-26in Sycamore	51-30in Oak
19-64in Oak	52-24in Maple
20-32in Maple	53-30in Poplar
21-40in Hickory	54-30in Poplar
22-36in Maple	55-26in Poplar
23-28in Sycamore	56-30in Poplar
24-30in Sycamore	57-24in Maple
25-26in Maple	58-30in Sycamore
26-36in Oak	59-30in Maple
27-44in Hickory	60-30in Maple
28-38in Hickory	61-24in Birch
29-32in Hickory	62-14in Maple
30-36in Hickory	63-12in Maple
31-30in Hickory	64-10in Maple
32-36in Hickory	65-14in Cherry
33-32in Hickory	66-8in Cherry

SANITARY SEWER ASBUILT

A San MH	Top=211.3
Inv In=202.8	Inv Out=202.6
B San MH	Top=200.1
Inv In=195.1	Inv Out=190.9
C San MH	Top=199.4
Inv In=189.5	Inv Out=189.2
D San MH	Top=194.6
Inv In=187.6	Inv Out=187.5
E San MH	Top=219.5
Inv In=199.4	
F San MH	Top=195.6
Inv In=186.8(From E)	Inv In=186.2(From D)
Inv Out=186.1	
G San MH	Top=192.7
Inv In=184.7	

STORM SEWER ASBUILT

1 Catch Basin	Top=222.4
Inv Out=216.2	
2 Storm MH	Top=222.1
Inv In=210.6	Inv Out=200.9
3 End-Section	Inv In=199.9
4 Storm MH	Top=216.6
Inv In=189.5	Inv Out=206.2
5 Storm MH	Top=210.0
Inv In=205.8	Inv In=198.1
6 End-Section	Inv In=197.5
7 Conc Headwall	Top=204.7
8 Pond Structure	Top=201.7
9 Conc Headwall	Top=214.7
Inv In=202.1	
10 Storm Grate	Top=215.9
Inv In=204.6	



Lake Montclair Sediment Forebay : Option 1
 Forebay Located at Intersection of Powells Creek and Lake Montclair

Elevation	188	5139.74
	186	6445.15
	184	7894.39
	182	9487.47
	180	11224.4

Assumption: 2:1 Side Slopes
 Total Volume: 63920.40 Cu. ft.
 Halfway Volume: 25875.36 Cu.Ft.
 960 C.Y.

OPTION 1
 PRELIMINARY DESIGN IN LAKE OPTION
 FOR
**LAKE MONTCLAIR
 SEDIMENT FOREBAY**
 DUMFRIES DISTRICT
 PRINCE WILLIAM COUNTY, VIRGINIA
 AUGUST 11, 2009
 SHEET 1 OF 1