

Project: Hickory Haven and Samary Forest Sanitary Sewer

Location: Goochland County, VA

Date: 8/11/2020

Engineer's Opinion of Probable Construction Cost (OPCC)

Based on plans dated 4/20/2020 - Revised 8/10/2020



Item #	Description of Work	Unit of Measure	Quantity	Unit Price	Item Total
Gravity Sewer & Appurtenances:					
1	Mobilization	L.S.	1	\$ 60,000	\$ 60,000.00
2	8" PVC Sanitary Sewer Pipe	L.F.	8,267	\$ 60	\$ 495,991
3	Installation Depth 0-6 Feet	L.F.	1,093	\$ 30	\$ 32,790
4	Installation Depth 6-8 Feet	L.F.	1,977	\$ 35	\$ 69,200
5	Installation Depth 8-10 Feet	L.F.	2,850	\$ 40	\$ 114,000
6	Installation Depth 10-12 Feet	L.F.	1,771	\$ 50	\$ 88,600
7	Installation Depth 12-14 Feet	L.F.	525	\$ 60	\$ 31,500
8	Installation Depth 14-16 Feet	L.F.	20	\$ 70	\$ 1,400
9	Installation Depth 16-18 Feet	L.F.	28	\$ 80	\$ 2,300
10	Select Backfill	C.Y.	480	\$ 70	\$ 33,600
11	48" Manhole	V.F.	332	\$ 500	\$ 165,900
12	60" Manhole	V.F.	8	\$ 650	\$ 5,200
13	Standard Manhole Frame and Cover	EA.	36	\$ 500	\$ 18,000
14	PVC Service Tee (8" x 4")	EA.	36	\$ 400	\$ 14,400
15	PVC Service Tee (8" x 6")	EA.	3	\$ 500	\$ 1,500
16	PVC Service Wye (6" x 4")	EA.	6	\$ 300	\$ 1,800
17	6" PVC Sewer Pipe for Dual House Connection	L.F.	600	\$ 40	\$ 24,000
18	4" PVC Sewer Pipe for House Connection	L.F.	1,200	\$ 35	\$ 42,000
19	Excavation and Backfill for 6" Service	L.F.	600	\$ 35	\$ 21,000
20	Excavation and Backfill for 4" Service	L.F.	1,200	\$ 30	\$ 36,000
21	4" PVC Cleanout at Property Line	EA.	56	\$ 400	\$ 22,400
22	Connect New Sewer Main to Existing Manhole	EA.	2	\$ 2,000	\$ 4,000
23	Connect New Sewer Service to new Manhole	EA.	12	\$ 500	\$ 6,000
24	Connect New Sewer Service to Existing Manhole	EA.	1	\$ 2,000	\$ 2,000
25	Bypass Pump Operation	L.S.	1	\$ 20,000	\$ 20,000
26	Traffic Control	L.S.	1	\$ 50,000	\$ 50,000
				Total	\$ 1,363,581
Force Main Sewer & Appurtenances:					
27	2" IPS DR-11 HDPE Force Main	L.F.	320	\$ 10	\$ 3,200
28	Pressure Service Connection	EA.	3	\$ 2,000	\$ 6,000
29	Trench Excavation and Backfill	L.F.	320	\$ 30	\$ 9,600
30	2" Flushing Connection	EA.	1	\$ 3,000	\$ 3,000
				Total	\$ 21,800
Erosion & Sediment Control:					
31	Clearing & Grubbing	AC.	3.8	\$ 10,000	\$ 38,000
32	Construction Entrance	EA.	5	\$ 5,000	\$ 25,000
33	Orange Safety Fence	L.F.	750	\$ 8	\$ 6,000
34	Super Silt Fence	L.F.	275	\$ 10	\$ 2,750
35	Silt Fence	L.F.	4,125	\$ 5	\$ 20,625
36	Riprap	C.Y.	50	\$ 100	\$ 5,000
				Total	\$ 97,375
Drainage Improvements					
37	Excavation for Ditch Grading	C.Y.	35	\$ 200	\$ 7,000
38	Clay Plug	C.Y.	17	\$ 40	\$ 680
39	EC-3 Type III Matting	S.Y.	102	\$ 20	\$ 2,040
				Total	\$ 9,720
Restoration					
40	Pavement Milling	S.Y.	750	\$ 15	\$ 11,300
41	Replace Plant Mix Pavement 10" BM-25 + 2" SM-9.5 (trench only)	S.Y.	210	\$ 90	\$ 18,900
42	Pavement overlay with 2" SM-9.5	S.Y.	750	\$ 20	\$ 15,000
43	Grading, Seeding and Straw for Trenches	S.Y.	20,000	\$ 10	\$ 200,000
44	Furnish and install 12" or 15" Concrete Driveway Culvert Pipe	L.F.	120	\$ 50	\$ 6,000
45	Stone for Driveway Replacement	L.F.	150	\$ 10	\$ 1,500
46	Additional Stone for Driveway Replacement	S.Y.	110	\$ 10	\$ 1,100
47	Paved Driveway Replacement Trench	L.F.	60	\$ 100	\$ 6,000
48	Concrete Driveway Replacement Trench	L.F.	22	\$ 200	\$ 4,400
49	Additional Driveway Replacement	S.Y.	50	\$ 100	\$ 5,000
50	Replace Miscellaneous Fencing	L.F.	1,000	\$ 20	\$ 20,000
51	Replace Miscellaneous Trees and Shrubbery per Lot	EA.	58	\$ 500	\$ 29,000
52	Utility Pole Stabilization	EA.	8	\$ 1,000	\$ 8,000
				Total	\$ 326,200
				Construction Sub Total	\$ 1,818,700
53	Construction Contingency		20%		\$ 363,800
				Opinion of Probable Construction Cost*	\$ 2,182,500

*Timmons Group's Opinion of Probable Construction Cost (OPCC) is based on best judgment, experience and being qualified professionals generally familiar with the construction industry. Because Timmons Group has no control over the cost of labor, materials, equipment, services furnished by others, or over competitive bidding or market conditions, Timmons Group cannot guarantee that actual construction costs will not vary from the OPCC presented.