

Project: Hickory Haven-Samary Forest Sanitary Sewer					
Engineer's Opinion of Probable Construction Cost - Option 1					
Location: Goochland County, VA					
Date: 10/27/2019					
Based on Option 1 Layout					
(not for construction)					
Item #	Description of Work	Unit of Measure	Quantity	Unit Price	Item Total
<b>Gravity Sewer &amp; Appurtenances:</b>					
1	Mobilization	L.S.	1	\$ 60,000	\$ 60,000.00
2	8" PVC Sanitary Sewer Pipe	L.F.	5309	\$ 60	\$ 318,515
3	8" DI Sanitary Sewer Pipe	L.F.	552	\$ 90	\$ 49,680
4	Installation Depth 0-6 Feet	L.F.	413	\$ 30	\$ 12,387
5	Installation Depth 6-8 Feet	L.F.	207	\$ 35	\$ 7,300
6	Installation Depth 8-10 Feet	L.F.	847	\$ 40	\$ 33,900
7	Installation Depth 10-12 Feet	L.F.	1201	\$ 50	\$ 60,100
8	Installation Depth 12-14 Feet	L.F.	1381	\$ 60	\$ 82,900
9	Installation Depth 14-16 Feet	L.F.	626	\$ 70	\$ 43,800
10	Installation Depth 16-18 Feet	L.F.	633	\$ 80	\$ 50,700
11	Installation Depth 18-20 Feet	L.F.	552	\$ 100	\$ 55,300
12	Select Backfill	C.Y.	1530	\$ 70	\$ 107,200
13	Hardpan and Rock Excavation	C.Y.	---	---	---
14	48" Manhole	V.F.	339	\$ 500	\$ 169,500
15	Standard Manhole Frame and Cover	EA.	27	\$ 500	\$ 13,500
16	PVC Service Tee (8" x 4")	EA.	42	\$ 400	\$ 16,800
17	6" PVC Sewer Pipe for House Connection	L.F.	0	\$ 40	\$ -
18	4" PVC Sewer Pipe for House Connection	L.F.	1756	\$ 35	\$ 61,460
19	Excavation and Backfill for 4" Service	L.F.	1756	\$ 30	\$ 52,680
20	4" PVC Cleanout on Service Line at P/L	EA.	60	\$ 400	\$ 24,000
21	3" HDPE Force Main	L.F.	0	\$ 50	\$ -
22	Force Main Service Connection	EA.	0	\$ 1,000	\$ -
23	Connect New Sewer Main to Existing Manhole	EA.	2	\$ 2,000	\$ 4,000
24	Connect New Sewer Service to New Manhole	EA.	18	\$ 500	\$ 9,000
25	Connect New Service to Existing Manhole	EA.	1	\$ 2,000	\$ 2,000
26	Connect New Force Main to New Manhole	EA.	0	\$ 500	\$ -
27	Private Grinder Pump Station	L.S.	3	\$ 10,000	\$ 30,000
28	Bypass Pump Operation	L.S.	1	\$ 20,000	\$ 20,000
29	Traffic Control	L.S.	1	\$ 100,000	\$ 100,000
				<b>Total</b>	<b>\$ 1,384,722</b>
<b>Erosion &amp; Sediment Control:</b>					
30	Clearing & Grubbing	AC.	0.32	\$ 10,000	\$ 3,200
31	Construction Entrance	EA.	4	\$ 5,000	\$ 20,000
32	Orange Safety Fence	L.F.	3000	\$ 8	\$ 24,000
33	Silt Fence	L.F.	6200	\$ 5	\$ 31,000
34	Riprap	C.Y.	50	\$ 100	\$ 5,000
				<b>Total</b>	<b>\$ 83,200</b>
<b>Restoration</b>					
35	Pavement Milling	S.Y.	4424	\$ 15	\$ 66,400
36	Replace Plant Mix Pavement 10" BM-25 + 2" SM-9.5 (trench only)	S.Y.	553	\$ 90	\$ 49,800
37	Pavement Overlay with 2" SM-9.5	S.Y.	5531	\$ 20	\$ 110,700
38	Grading, Seeding and Straw for Trenches	S.Y.	13950	\$ 10	\$ 139,600
39	Furnish and install 12" or 15" Concrete Driveway Culvert Pipe	L.F.	253	\$ 50	\$ 12,650
40	Stone for Driveway Replacement	L.F.	214	\$ 10	\$ 2,140
41	Additional Stone for Driveway Replacement	S.Y.	200	\$ 10	\$ 2,000
42	Paved Driveway Replacement Trench	L.F.	165	\$ 100	\$ 16,500
43	Concrete Driveway Replacement Trench	L.F.	49	\$ 200	\$ 9,800
44	Additional Driveway Replacement	S.Y.	50	\$ 100	\$ 5,000
45	Replace Miscellaneous Fencing	L.F.	0	\$ 20	\$ -
46	Replace Miscellaneous Trees and Shrubbery per Lot	EA.	37	\$ 1,000	\$ 37,000
47	Utility Pole Stabilization	EA.	19	\$ 1,000	\$ 19,000
				<b>Total</b>	<b>\$ 470,590</b>
				<b>Sub Total</b>	<b>\$ 1,938,600</b>
48	Construction Contingency		20%		\$ 387,800
				<b>Grand Total</b>	<b>\$ 2,326,400</b>

\*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.

