



**STARIN ROAD UNDERGROUND WET  
DETENTION POND ALTERNATIVE 4 - MODIFIED (WC-5.1 CITY)**  
TMDL STORMWATER PLAN  
CITY OF WHITEWATER  
WALWORTH AND JEFFERSON COUNTIES, WISCONSIN



**FIGURE 1  
1407.088**



Strand Associates, Inc.					
<p style="text-align: center;"><b>ALTERNATIVE 4</b>  <b>WHITEWATER WISCONSIN</b>  <b>ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST: PLANNING-LEVEL</b>  <b>10/18/2023</b></p>					
ITEM NO.	DESCRIPTION	Quantity	Units	Unit Price (2025)	Total Price
1	Mobilization/Demobilization (2% of Construction Cost)	1	LS	\$56,855.00	\$56,850
2	Clearing and Grubbing	0.29	AC	\$13,800.00	\$4,000
3	Traffic Control	1	LS	\$6,050.00	\$6,050
4	Construction Layout	1	LS	\$6,050.00	\$6,050
5	Stone Tracking Pad	2	EA	\$3,000.00	\$6,000
6	Dust Control	1	LS	\$2,900.00	\$2,900
7	Inlet Protection	4	EA	\$300.00	\$1,200
8	Silt Fence	792	LF	\$4.00	\$3,150
9	Dewatering	1	LS	\$15,000.00	\$15,000
10	Parent Material Excavation and Off-Site Disposal	10,778	CY	\$26.00	\$280,250
11	Excavation w/ On-Site Reuse as Backfill Including Compaction	6,958	CY	\$17.00	\$118,300
12	Stone Backfill (Around and To Top of Unit)	1,147	CY	\$38.50	\$44,150
13	Rock Excavation	893	CY	\$25.00	\$22,350
14	Stormtrap Units Incl/ Delivery, Joint Tape, and Joint Rap	1	LS	\$1,478,403.14	\$1,478,400
15	Stormtrap Units Incl/ Delivery, Joint Tape, and Joint Rap (Sales Tax)	1	LS	\$81,312.17	\$81,312
16	Subgrade (6" Thick of 1-1/4" base course)	476	CY	\$38.50	\$18,300
17	Stormtrap Unit Installation	1	LS	\$98,991.30	\$99,000
18	Geomembrane Liner	1	LS	\$86,371.23	\$86,350
19	6-IN Salvaged Topsoil Placement (from project site)	2,968	SY	\$3.50	\$10,400
20	Erosion Control Revegetative Mat	2,968	SY	\$3.00	\$8,900
21	Turf Restoration - Seed and Fertilizer	2,968	SY	\$3.00	\$8,900
22	Trees	0	EA	\$660.00	\$0
23	34x53-IN RCP Storm Sewer	844	LF	\$325.00	\$274,300
24	12-IN RCP Storm Sewer	45	LF	\$110.00	\$4,950
25	2'x3' Storm Sewer Inlet	3	EA	\$2,900.00	\$8,700
26	10-FT DIA Storm Sewer Manhole	3	EA	\$22,700.00	\$68,100
27	Base T Storm Sewer Manhole (Connect to Existing Storm Sewer)	1	EA	\$27,497.58	\$27,500
28	8-FT DIA Storm Sewer Manhole	3	EA	\$13,600.00	\$40,800
29	JC J-2 Connection	1	EA	\$5,000.00	\$5,000
30	Outlet Control Structure	1	EA	\$10,000.00	\$10,000
31	StormTrap Access Manhole	8	EA	\$2,182.01	\$17,450
32	Asphalt Restoration (Along Storm Sewer)	1	LS	\$14,600	\$14,600
33	Temporary Access Road	1	LS	\$10,664.99	\$10,650
34	Temporary Access Road Removal	831	SY	\$4.00	\$3,300
35	Temporary Access Road Restoration	831	SY	\$9.50	\$7,900
36	Asphalt Path Removal	47	SY	\$28.79	\$1,350
37	Asphalt Path Restoration	1	LS	\$1,800.00	\$1,800
38	Curb and Gutter Removal	328	LF	\$5.77	\$1,900
39	Curb and Gutter Restoration	328	LF	\$21.24	\$6,950
40	Baseball Field Line Fence Replacement (6' Height)-Backstop to Remain in Place	407	LF	\$38.00	\$15,450
41	Ballfield Aggregate	345	TON	\$38.50	\$13,250
42	Reset Bases And Pitcher Mound	1	LS	\$2,500.00	\$2,500
43	Pipe Abandonment	1	LS	\$1,000.00	\$1,000
44	Pipe Removal	134	LF	\$33.00	\$4,400
				Subtotal Project Cost	\$ 2,899,662
				25% Contingency and Technical Services Allowance	\$ 724,916
				Construction Cost	\$ 3,624,578
				Geotechnical Investigation	\$ 13,000
				<b>Grand Total</b>	<b>\$ 3,637,578</b>

Notes:

1. This planning level opinion of probable cost is based on limited data and the assumptions, herein. It should be refined in the future with site specific information.

		WDNR UNPS Grant		\$150,000
		WDNR UNPS Grant OSG Monies (if successful)		\$150,000
		Clean Water Fund Principal Forgiveness (50%)		\$1,818,789
		Total Grants		\$2,118,789
		Total Project Cost (With Grants)		\$1,518,789

	Cost Proration Based on Watershed Area	Without Grants	With Grants	% of Project Cost (With Grants)
City Portion	39.7%	\$1,444,118	\$602,959	16.6%
UW Portion	60.3%	\$2,193,459	\$915,830	25.2%
Grant Portion	0%	\$0	\$2,118,789	58.2%
Total	100%	\$3,637,578	\$3,637,578	100.0%