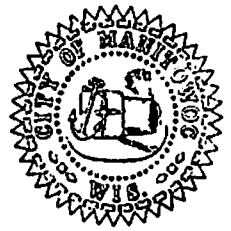


# CITY OF MANITOWOC

WISCONSIN, USA  
www.manitowoc.org



**Date:** April 16, 2020

**To:** Mayor and Common Council

**From:** Dan Koski, P.E.

**RE:** Evaluation of Concrete & Asphalt Bids for S. 13<sup>th</sup> and S. 29<sup>th</sup> St. (WS-20-7 & WS-20-13)

The bids we received for both the asphalt and concrete paving projects on the above referenced streets were very good. The concrete pavement bid for both streets including the storm sewer was \$575,933. The asphalt paving bid for both streets including the storm sewer was \$522,736, which is a total difference of \$53,197. The total budget for these 2 streets is \$700,000.

The asphalt pavement option for South 13<sup>th</sup> St. was \$19,515 less than concrete pavement. The asphalt pavement option for South 29<sup>th</sup> St. was \$33,663 less than concrete pavement.

For the sake of balancing the total contract amount, there is a total of \$156,644 in costs that will be billed to the MPU and WWTF.

According to our Municipal Code, concrete pavement has a life expectancy of 40 years and hot mix asphalt pavement has a life expectancy of 20 years.

We would like to remind the Committee/Council that asphalt typically has a higher long term maintenance cost than concrete pavement. Typical asphalt maintenance would include crack filling, seal coating and ultimately a mill and overlay.

We believe that the cost to perform a 2" mill and 2" overlay in the future would easily exceed \$53,000.

So, while the initial cost of asphalt is cheaper, we feel that the long term maintenance cost of the asphalt street will exceed the initial cost of the concrete pavement.

Therefore, based on a life cycle cost, we believe the concrete pavement is the preferred option and is also what we originally recommended for these 2 streets.

Item #	Item Description	Unit	Qty	Unit Price	Extension	Company
1	1. Mobilization	LS	1	\$17,200.00	\$17,200.00	
2	2. Traffic Control	LS	1	\$20,000.00	\$20,000.00	
3	3. Underspread Excavation (Includes Pavement, Curb, Topsoil, Concrete, Asphalt)	CF	1707	\$124.88	\$213,088.76	
4	4. Concrete curb and gutter 30-inch Type "A"	CF	1058	\$16.40	\$17,351.20	
5	5. Concrete curb and gutter 30-inch Type "B"	CF	1058	\$16.40	\$17,351.20	
6	6. "C"ured Aggregate Base Course (3.47)	SV	201	\$11,850.00	\$2,381,850.00	
7	7. "B"ase Course Pavement	SV	201	\$11,850.00	\$2,381,850.00	
8	8. 12" Reinforced Fabric Type 55 (Non-woven)	EA	67	\$125.00	\$8,375.00	
9	9. 12" Reinforced Fabric Type 55 (Non-woven)	EA	67	\$125.00	\$8,375.00	
10	10. 12" Reinforced Fabric Type 55 (Non-woven)	EA	67	\$125.00	\$8,375.00	
11	11. 12" Reinforced Fabric Type 55 (Non-woven)	EA	67	\$125.00	\$8,375.00	
12	12. 12" Reinforced Fabric Type 55 (Non-woven)	EA	67	\$125.00	\$8,375.00	
13	13. 12" Reinforced Fabric Type 55 (Non-woven)	EA	67	\$125.00	\$8,375.00	
14	14. Sawing Concrete or Asphalt Pavement, Full Depth	LF	188	\$100.00	\$18,800.00	
15	15. Sawing Asphalt Pavement, Partial Depth	LF	188	\$100.00	\$18,800.00	
16	16. HMA Pavement, Type 41T 58-285	TON	284	\$88.50	\$25,122.00	
17	17. HMA Pavement, Type 41T 58-285	TON	284	\$88.50	\$25,122.00	
18	18. HMA Pavement, Type 41T 58-285	TON	284	\$88.50	\$25,122.00	
19	19. "C"oncrete Sidewalk (Removed & Replaced)	GAJ	130	\$38.85	\$5,050.50	
20	20. "C"oncrete Sidewalk (New)	GAJ	130	\$38.85	\$5,050.50	
21	21. "C"oncrete Sidewalk (Removed & Replaced)	GAJ	130	\$38.85	\$5,050.50	
22	22. "C"oncrete Sidewalk (New)	GAJ	130	\$38.85	\$5,050.50	
23	23. "C"oncrete Sidewalk (Removed & Replaced)	GAJ	130	\$38.85	\$5,050.50	
24	24. "C"oncrete Sidewalk (New)	GAJ	130	\$38.85	\$5,050.50	
25	25. 3" Reinforced Topsoil	SV	825	\$6.00	\$4,950.00	
26	26. Sod, Fertilizer & Water	SV	825	\$6.00	\$4,950.00	
27	27. Utility Line Opening	EA	1	\$500.00	\$500.00	
28	28. Removing Existing Storm Sewer Pipe	EA	1	\$12,625.00	\$12,625.00	
29	29. Removing Storm Sewer Pipe	EA	1	\$12,625.00	\$12,625.00	
30	30. Removing Storm Sewer Pipe	EA	1	\$12,625.00	\$12,625.00	
31	31. Removing Storm Sewer Pipe	EA	1	\$12,625.00	\$12,625.00	
32	32. Removing Storm Sewer Pipe	EA	1	\$12,625.00	\$12,625.00	
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37	37. Removing Storm Sewer Pipe	EA	1	\$12,625.00	\$12,625.00	
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40	40. Removing Storm Sewer Pipe	EA	1	\$12,625.00	\$12,625.00	
41	41. Removing Storm Sewer Pipe	EA	1	\$12,625.00	\$12,625.00	
42	42. Removing Storm Sewer Pipe	EA	1	\$12,625.00	\$12,625.00	
43	43. Removing Storm Sewer Pipe	EA	1	\$12,625.00	\$12,625.00	
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100	100. Removing Storm Sewer Pipe	EA	1	\$12,625.00	\$12,625.00	

4-17-2020  
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 Recommended  
 Under Construction Co