

## ENGINEER'S REPORT

The undersigned is the engineer for the City of West Fargo, Cass County, North Dakota, and submits the following report to the Board of City Commissioners of said city:

The purpose of the proposed project is to install storm sewer, storm water ponds, and storm sewer lift station to service the Gateway West Addition. The need for the proposed project is warranted by the development of the Gateway West site and the request by the property owner to install the improvements.

Storm Improvement District No. 4065 will involve the construction of improvements consisting of storm sewer, storm water retention pond, storm sewer lift station, and other miscellaneous installations.

Based upon the estimate of the probable cost, attached hereto and made a part thereof, and the engineering information and studies, the work proposed in said district is feasible.

Dated this 2<sup>nd</sup> day of April, 2018.

Dustin Scott  
Moore Engineering, Inc.  
West Fargo ND



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Engineer for the City of West Fargo, ND

**STORM IMPROVEMENT DISTRICT NO. 4065  
STORM SEWER IMPROVEMENTS & LIFT STATION (SM-78) - GATEWAY WEST  
WEST FARGO, ND**

*Engineer's Opinion of Probable Cost*

<i>BID ITEM NO. &amp; DESCRIPTION</i>	<i>UNIT</i>	<i>QUANTITY</i>	<i>UNIT PRICE</i>	<i>TOTAL</i>
<b><u>Base Bid</u></b>				
1. Storm Water Management	LSUM	1	\$10,000.00	\$10,000.00
2. Temporary Pumping	LSUM	1	\$15,000.00	\$15,000.00
3. Pipe Conc Reinf 12In Cl III-Storm Drain	LF	24	\$40.00	\$960.00
4. Pipe Conc Reinf 15In Cl III-Storm Drain	LF	58	\$45.00	\$2,610.00
5. Pipe Conc Reinf 18In Cl III-Storm Drain	LF	111	\$50.00	\$5,550.00
6. Pipe Conc Reinf 36In Cl III-Storm Drain	LF	433	\$80.00	\$34,640.00
7. End Sect-Conc Reinf 12In	EA	1	\$1,200.00	\$1,200.00
8. End Sect-Conc Reinf 15In	EA	1	\$1,500.00	\$1,500.00
9. End Sect-Conc Reinf 36In	EA	6	\$2,000.00	\$12,000.00
10. Manhole 48In	EA	1	\$3,000.00	\$3,000.00
11. Manhole 60In	EA	2	\$4,000.00	\$8,000.00
12. Fittings	LBS	215	\$5.00	\$1,075.00
13. Storm Sewer Force Main - 12"	LF	804	\$40.00	\$32,160.00
14. Hydrodynamic Separator	EA	1	\$40,000.00	\$40,000.00
15. Storm Sewer Lift Station	LSUM	1	\$160,000.00	\$160,000.00
16. Lift Station Controls	ALLOW	1	\$40,000.00	\$40,000.00
17. Common Excavation-Type A	CY	16,000	\$4.00	\$64,000.00
18. Topsoil	CY	4,300	\$8.00	\$34,400.00
19. Riprap Grade I	CY	89	\$125.00	\$11,111.11
20. Driveway Concrete	SY	100	\$100.00	\$10,000.00
21. Seeding Class III	ACRE	9.00	\$1,000.00	\$9,000.00
22. Hydraulic Mulch	ACRE	9.00	\$1,500.00	\$13,500.00
23. ECB Type 1	SY	6,240	\$2.50	\$15,600.00
			Construction Subtotal	\$525,306.11
			Contingencies	\$52,530.61
			<b>Total Construction</b>	<b>\$577,836.72</b>
			Engineering	\$104,010.61
			Legal & Administration	\$29,433.70
			Bond Discount	\$23,113.47
			Land Acquisition	\$650,605.50
			<b>TOTAL PROJECT COST</b>	<b>\$1,385,000.00</b>