

August 15, 2017

City of West Fargo
800 4th Avenue East
West Fargo, ND 58078

RE: Sewer, Water, Storm and Street Improvement District No. 1305
The Wilds 9th Addition & Sanitary Lift Station (SA 46)
West Fargo, ND

WHEREAS, bids have been opened for Sewer, Water, Storm and Street Improvement District No. 1305 of the City of West Fargo, North Dakota and;

WHEREAS, an estimate of the cost of work is required by the Engineer for the City of West Fargo, North Dakota;

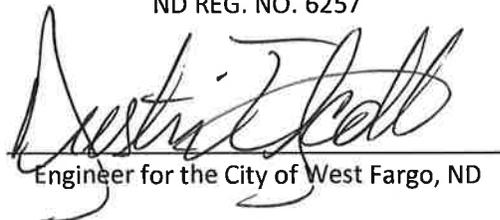
NOW, THEREFORE, I, Dustin Scott, do hereby certify as follows:

That I am the City Engineer for the City of West Fargo, North Dakota;

That the following is a careful and detailed statement of the estimated cost of the work in said Sewer, Water, Storm and Street Improvement District No. 1305 of the City of West Fargo, North Dakota.

IN WITNESS WHEREOF, I have set my hand and seal this 15th day of August, 2017.

DUSTIN SCOTT
ND REG. NO. 6257



Engineer for the City of West Fargo, ND

**Sewer, Water, Storm and Street Improvement District No. 1305
The Wilds 9th Addition & Sanitary Lift Station (SA 46)
West Fargo ND**

ENGINEER'S STATEMENT OF ESTIMATED COST

<i>BID ITEM NO. & DESCRIPTION</i>	<i>UNIT</i>	<i>ESTIMATED QUANTITY</i>	<i>BID UNIT PRICE</i>	<i>BID PRICE</i>
CONTRACT 1 - GENERAL CONSTRUCTION				
<u>Sanitary Sewer Items</u>				
1. Sanitary Sewer - Remove	LF	17	\$10.00	\$170.00
2. Sanitary Sewer - Connect To Existing	Each	1	\$500.00	\$500.00
3. Sanitary Sewer - 8" PVC SDR 35	LF	4,767	\$26.00	\$123,942.00
4. Sanitary Sewer - 8" PVC SDR 26	LF	491	\$57.00	\$27,987.00
5. Sanitary Sewer - 10" PVC SDR 26	LF	2,164	\$67.00	\$144,988.00
6. Sanitary Sewer Force Main - 6" PVC SDR 26	LF	86	\$21.00	\$1,806.00
7. Sanitary Sewer Manhole - 48"	Each	32	\$4,200.00	\$134,400.00
8. Sanitary Sewer Manhole - 48" Special	LSum	1	\$4,500.00	\$4,500.00
9. Sanitary Sewer Manhole - 60"	Each	5	\$9,475.00	\$47,375.00
10. Sanitary Sewer Manhole - Remove	Each	1	\$500.00	\$500.00
11. External Manhole Chimney Seal	Each	39	\$0.01	\$0.39
12. Sanitary Sewer Cleanout	Each	6	\$450.00	\$2,700.00
13. Sanitary Sewer Service Connection - 6" PVC SDR 26	Each	141	\$220.00	\$31,020.00
14. Sanitary Sewer Service - 6" PVC SDR 26	LF	9,122	\$12.75	\$116,305.50
15. Sanitary Sewer Televising Riser	Each	1	\$350.00	\$350.00
16. Televising - Sanitary Sewer Main	LF	7,422	\$1.00	\$7,422.00
17. Televising - Sanitary Sewer Service	Each	142	\$30.00	\$4,260.00
18. Sanitary Sewer Lift Station - General	LSum	1	\$125,000.00	\$125,000.00
19. Sanitary Sewer Lift Station - Pumps	Allowance	1	\$30,000.00	\$30,000.00
<u>Water Main Items</u>				
1. Water Main - Connect To Existing	Each	1	\$200.00	\$200.00
2. Water Main - 8" PVC C900	LF	5,112	\$19.00	\$97,128.00
3. Water Main - 12" PVC C900	LF	2,086	\$45.00	\$93,870.00
4. Specials	Lbs	7,280	\$2.15	\$15,652.00
5. Gate Valve & Box - 4"	Each	1	\$725.00	\$725.00
6. Gate Valve & Box - 6"	Each	15	\$875.00	\$13,125.00
7. Gate Valve & Box - 8"	Each	15	\$1,300.00	\$19,500.00
8. Gate Valve & Box - 12"	Each	6	\$2,100.00	\$12,600.00
9. Hydrant - 10'	Each	11	\$3,550.00	\$39,050.00
10. Hydrant - 10.5'	Each	4	\$3,450.00	\$13,800.00
11. Hydrant Lead - 6" PVC C900	LF	148	\$17.00	\$2,516.00
12. Corporation - 1"	Each	141	\$150.00	\$21,150.00
13. Curb Stop & Box - 1"	Each	141	\$290.00	\$40,890.00
14. Water Service Line - 1"	LF	6,877	\$9.00	\$61,893.00
15. Water Service Line - 4" PVC C900	LF	75	\$19.00	\$1,425.00
<u>Storm Sewer Items</u>				
1. Storm Sewer - 4" Perforated PVC - Connect To Existing	Each	2	\$25.00	\$50.00
2. Storm Sewer - 4" Perforated PVC	LF	14,074	\$3.00	\$42,222.00
3. Storm Sewer - Connect To Existing	Each	1	\$1,000.00	\$1,000.00
4. Storm Sewer - 12" PP	LF	1,410	\$20.00	\$28,200.00
5. Storm Sewer - 15" RCP	LF	2,942	\$30.00	\$88,260.00
6. Storm Sewer - 18" RCP	LF	1,301	\$33.00	\$42,933.00
7. Storm Sewer - 21" RCP	LF	619	\$40.00	\$24,760.00

<i>BID ITEM NO. & DESCRIPTION</i>	<i>UNIT</i>	<i>ESTIMATED QUANTITY</i>	<i>BID UNIT PRICE</i>	<i>BID PRICE</i>
8. Storm Sewer - 24" RCP	LF	676	\$42.00	\$28,392.00
9. Storm Sewer - 27" RCP	LF	126	\$55.00	\$6,930.00
10. Storm Sewer - 30" RCP	LF	895	\$60.00	\$53,700.00
11. Storm Sewer - 36" RCP	LF	414	\$83.00	\$34,362.00
12. Storm Sewer - 42" RCP	LF	183	\$115.00	\$21,045.00
13. Storm Sewer - 60" RCP	LF	662	\$190.00	\$125,780.00
14. Storm Sewer - 66" RCP	LF	515	\$245.00	\$126,175.00
15. Storm Sewer - 72" RCP	LF	588	\$290.00	\$170,520.00
16. Storm Sewer - 72" x 72" RCB	LF	125	\$550.00	\$68,750.00
17. Storm Sewer Force Main - 30" DIP	LF	80	\$325.00	\$26,000.00
18. Storm Sewer Plug	Each	5	\$125.00	\$625.00
19. Storm Sewer Manhole - 48"	Each	29	\$2,250.00	\$65,250.00
20. Storm Sewer Manhole - 60"	Each	6	\$3,700.00	\$22,200.00
21. Storm Sewer Manhole - 72"	Each	5	\$4,600.00	\$23,000.00
22. Storm Sewer Manhole - 84"	Each	1	\$6,600.00	\$6,600.00
23. Storm Sewer Manhole - 96"	Each	3	\$8,100.00	\$24,300.00
24. Storm Sewer Manhole - Multi	Each	4	\$17,900.00	\$71,600.00
25. Storm Sewer Control Structure	Each	3	\$23,000.00	\$69,000.00
26. Storm Sewer Catch Basin - 2' x 3'	Each	47	\$1,750.00	\$82,250.00
27. Storm Sewer Catch Basin - 30"	Each	9	\$1,050.00	\$9,450.00
28. External Manhole Chimney Seal	Each	107	\$0.01	\$1.07
29. Temporary Pumping	LSum	1	\$1,000.00	\$1,000.00
30. Culvert - 24" RCP	LF	70	\$45.00	\$3,150.00
31. End Section - 24" RCP Flared	Each	2	\$600.00	\$1,200.00
32. End Section - 66" RCP Flared	Each	2	\$2,800.00	\$5,600.00
33. End Section - 72" RCP Flared	Each	3	\$3,500.00	\$10,500.00
34. End Section - 72" x 72" RCB Flared	Each	1	\$10,000.00	\$10,000.00
35. Riprap & Fabric - 18" Class III	CY	6	\$100.00	\$600.00
36. Storm Sewer Lift Station - General	LSum	1	\$75,000.00	\$75,000.00
37. Pump Refurbishment	Allowance	1	\$40,000.00	\$40,000.00
Roadway Items				
1. Excavation - Unclassified	CY	1,887	\$4.00	\$7,548.00
2. Embankment	CY	1,887	\$1.00	\$1,887.00
3. Clay Borrow - Provided	CY	22,461	\$0.50	\$11,230.50
4. Subgrade Preparation	SY	28,435	\$2.00	\$56,870.00
5. Reinforcement Fabric	SY	28,435	\$1.10	\$31,278.50
6. Gravel - 9" NDDOT Class 5	CY	7,109	\$27.00	\$191,943.00
7. Curb & Gutter - Saw Full Depth	LF	10	\$5.00	\$50.00
8. Curb & Gutter - Connect To Existing	Each	2	\$25.00	\$50.00
9. Curb & Gutter - Highback Inflow	LF	5,939	\$13.50	\$80,176.50
10. Curb & Gutter - Highback Outflow	LF	4,225	\$14.00	\$59,150.00
11. Curb & Gutter - Highback Outflow Special	SY	9	\$70.00	\$630.00
12. Curb & Gutter - Mountable Inflow	LF	7,624	\$12.50	\$95,300.00
13. Curb & Gutter - Knockdown	LF	511	\$15.00	\$7,665.00
14. Asphalt Pavement - Saw Full Depth	LF	21	\$5.00	\$105.00
15. Asphalt Base Course - 3.5"	SY	13,487	\$13.15	\$177,354.05
16. Tack Coat	Gal	674	\$2.00	\$1,348.00
17. Asphalt Wear Course - 2"	SY	13,487	\$8.20	\$110,593.40
18. Concrete Pavement - Saw Full Depth	LF	44	\$5.00	\$220.00
19. Concrete Pavement - Connect To Existing	Each	1	\$500.00	\$500.00
20. Concrete Pavement - 8" Non-Reinforced	SY	7,776	\$55.00	\$427,680.00
21. Sidewalk - 4" Concrete	SY	365	\$30.00	\$10,950.00

<i>BID ITEM NO. & DESCRIPTION</i>	<i>UNIT</i>	<i>ESTIMATED QUANTITY</i>	<i>BID UNIT PRICE</i>	<i>BID PRICE</i>
22. Sidewalk - 5" Concrete	SY	715	\$32.00	\$22,880.00
23. Multi-Use Path - Saw Full Depth	LF	16	\$5.00	\$80.00
24. Multi-Use Path - Connect To Existing	Each	2	\$55.00	\$110.00
25. Multi-Use Path - 5" Concrete	SY	6,466	\$32.00	\$206,912.00
26. Curb Ramp - 6" Concrete	SY	128	\$36.00	\$4,608.00
27. Detectable Warning Panel	SF	397	\$32.00	\$12,704.00
28. Decorative Colored Concrete - Median	SY	1,190	\$68.00	\$80,920.00
29. Median Nose Apron - Concrete	SY	57	\$90.00	\$5,130.00
30. Driveway - 8" Concrete	SY	549	\$45.00	\$24,705.00
31. Speed Table - Colored Concrete	SY	54	\$90.00	\$4,860.00
32. Speed Table - Stamped & Colored Concrete	SY	27	\$100.00	\$2,700.00
33. Sign & Sign Post - Remove & Reset	Each	8	\$130.00	\$1,040.00
34. Sign Anchor - In Ground	Each	25	\$55.00	\$1,375.00
35. Sign Anchor - Surface Mount	Each	7	\$50.00	\$350.00
36. Sign Post	LF	296	\$3.35	\$991.60
37. Signing - Standard	SF	221	\$17.00	\$3,757.00
38. Signing - 9"	LF	54	\$20.00	\$1,080.00
39. Flexible Delineator	Each	8	\$60.00	\$480.00
40. Flexible Delineator - Spare	Each	1	\$50.00	\$50.00
41. Latex Curb Paint - Top & Face	LF	551	\$4.00	\$2,204.00
42. Message - White Grooved Plastic	SF	80	\$19.00	\$1,520.00
43. Striping - 8" White Grooved Plastic	LF	404	\$7.70	\$3,110.80
44. Striping - 12" White Grooved Plastic	LF	56	\$12.00	\$672.00
45. Striping - 24" White Grooved Plastic	LF	528	\$26.00	\$13,728.00
46. Cluster Box Unit - 8 Unit	Each	13	\$1,400.00	\$18,200.00
47. Cluster Box Unit - 12 Unit	Each	4	\$1,500.00	\$6,000.00
<u>Pond Items</u>				
1. Excavation - Pond - On Site	CY	145,545	\$2.00	\$291,090.00
2. Excavation - Pond - Export	CY	25,000	\$3.00	\$75,000.00
3. Seeding - Type II	Acre	8	\$900.00	\$7,380.00
4. Mulch - Type A - Permanent Straw	Acre	4	\$250.00	\$1,000.00
5. Erosion Control Blanket - Straw	SY	22,119	\$0.85	\$18,801.15
6. Topsoil Replacement - 4"	CY	3,088	\$1.50	\$4,632.00
7. Bubbler Slab - 18" Reinforced Concrete	SY	5	\$150.00	\$750.00
8. Compressed Air Bubbler System - General	Each	2	\$15,000.00	\$30,000.00
9. Compressed Air Bubbler System - Cash Allowance	Allowance	1	\$80,000.00	\$80,000.00
10. Riprap & Fabric - 18" Class III	CY	106	\$80.00	\$8,480.00
11. Temporary Pumping	Day	150	\$10.00	\$1,500.00
12. Pond - Fill	LSum	1	\$1,000.00	\$1,000.00
13. Turf Reinforcement Mat	SY	253	\$6.00	\$1,518.00
14. Irrigation Conduit – 6" PVC SDR 35	LF	350	\$20.00	\$7,000.00
<u>General Items</u>				
1. Cleaning	LSum	1	\$1,000.00	\$1,000.00
2. Storm Water Management	LSum	1	\$1,000.00	\$1,000.00
3. Traffic Control	LSum	1	\$2,200.00	\$2,200.00
4. Mowing	Acre	5	\$100.00	\$500.00
5. Watering	Each	6	\$100.00	\$600.00
6. Excavation - 6" Topsoil Stripping	CY	91,278	\$1.00	\$91,278.00
7. Topsoil Replacement - 4"	CY	2,383	\$5.00	\$11,915.00
8. Rear Yard Grading	SY	9,185	\$2.00	\$18,370.00
9. Inlet Protection Device	Each	64	\$85.00	\$5,440.00
10. Sedimentation Control Fence	LF	8,354	\$1.50	\$12,531.00

<i>BID ITEM NO. & DESCRIPTION</i>	<i>UNIT</i>	<i>ESTIMATED QUANTITY</i>	<i>BID UNIT PRICE</i>	<i>BID PRICE</i>
11. Sedimentation Control Wattle - 9"	LF	30	\$5.00	\$150.00
12. Stabilized Construction Entrance	Each	3	\$500.00	\$1,500.00
13. Seeding - Type II	Acre	13	\$900.00	\$11,970.00
14. Mulch - Type B - Hydromulch	Acre	7	\$950.00	\$7,030.00
15. Mulch - Type A - Permanent Straw	Acre	32	\$250.00	\$7,925.00
16. Mulch - Type A - Temporary Straw	Acre	62	\$150.00	\$9,270.00
17. Tree - Small Deciduous	Each	44	\$275.00	\$12,100.00
18. Tree - Large Deciduous	Each	139	\$350.00	\$48,650.00
19. Decorative Fence - 6'	LF	1,648	\$65.00	\$107,120.00
Contract - General Construction Subtotal				\$5,218,551.46

CONTRACT 2 - ELECTRICAL CONSTRUCTION

Lighting Items

1. Conductor - #6 USE/Cu.	LF	21,240	\$1.12	\$23,788.80
2. Tracer Wire - #12	LF	7,080	\$0.25	\$1,770.00
3. Innerduct - 1.5" PVC	LF	7,080	\$3.40	\$24,072.00
4. Concrete Base - 5'	Each	44	\$335.00	\$14,740.00
5. Light Standard - Single LED and 14' Post	Each	34	\$1,925.00	\$65,450.00
6. Light Standard - Double LED and 16' Post	Each	10	\$3,485.00	\$34,850.00
7. Spare Light Standard - Single LED and 14' Post	Each	4	\$1,775.00	\$7,100.00
8. Spare Light Standard - Double LED and 16' Post	Each	1	\$3,350.00	\$3,350.00

Sanitary Sewer Lift Station Items

1. Sanitary Sewer Lift Station - Electrical	LSum	1	\$8,700.00	\$8,700.00
2. Sanitary Sewer Lift Station - Controls	Allowance	1	\$60,000.00	\$60,000.00
3. Siren	Each	1	\$30,800.00	\$30,800.00

Storm Sewer Lift Station Items

1. Storm Sewer Lift Station - Electrical	LSum	1	\$109,500.00	\$109,500.00
2. Storm Sewer Lift Station - Controls	Allowance	1	\$65,000.00	\$65,000.00

Pond Items

1. Compressed Air Bubbler System - Electrical	Each	2	\$6,500.00	\$13,000.00
2. Compressed Air Bubbler System - Controls	Each	2	\$19,900.00	\$39,800.00

Contract 2 - Electrical Construction Subtotal \$501,920.80

Construction Subtotal \$5,720,472.26
Contingencies \$579,527.74

Total Construction \$6,300,000.00

Engineering \$693,000.00
Legal & Administration \$630,000.00
Bond Discount \$250,000.00

TOTAL COST \$7,873,000.00