

**CITY OF NORTH BEND**  
**MEADOWBROOK SEWER STUDY**  
**ENGINEER'S PLANNING LEVEL COST ESTIMATE**  
**20-Jan-19**  
**G & O #18622.00**

**NO CONNECTIONS - NORTH GRINDER PUMP SYSTEM**

<b>ITEM NO.</b>	<b>BASE BID: DESCRIPTION</b>	<b>ESTIMATED QUANTITY</b>	<b>UNIT PRICE</b>	<b>AMOUNT</b>
1	Unexpected Site Changes	1 CALC	\$20,000	\$20,000
2	Survey	1 LS	\$9,500	\$9,500
3	SPCC Plan	1 LS	\$2,000	\$2,000
4	Mobilization, Cleanup, and Demobilization	1 LS	\$110,000	\$110,000
5	Project Temporary Traffic Control	1 LS	\$60,000	\$60,000
6	Clearing and Grubbing	1 LS	\$10,000	\$10,000
7	Removal of Structures and Obstructions	1 LS	\$14,670	\$14,670
8	Sawcutting	6,660 LF	\$3	\$19,980
9	Locate Existing Utilities	1 LS	\$20,000	\$20,000
10	Controlled Density Fill	5 CY	\$250	\$1,250
11	Crushed Surfacing Base Course	1,358 TN	\$25	\$33,950
12	Temporary HMA	50 TN	\$250	\$12,500
13	HMA Cl. 1/2" PG 64-22 Patching	271 TN	\$200	\$54,200
14	HMA Cl. 1/2" PG 64-22 Overlay	1,166 TN	\$110	\$128,260
15	4" Pressure Main, Incl. bedding & backfill	4,400 LF	\$50	\$220,000
16	6" Pressure Main, Incl. bedding & backfill	3,620 LF	\$55	\$199,100
17	4" Pressure Main, Bore w/ Casing under SR202 @ 14th Street	80 LF	\$250	\$20,000
18	Air and Vacuum Release Valve	2 EA	\$4,000	\$8,000
19	Pressure Main Cleanout	8 EA	\$3,000	\$24,000
20	HDPE Sewer grinder Pump Low Pressure Main, 1.25 In. Diam., Incl. bedding & backfill	0 LF	\$40	\$0
21	Removal of Unsuitable Material (Trench)	120 CY	\$40	\$4,800
22	Trench Excavation Safety Systems	1 LS	\$20,000	\$20,000
23	Bank Run Gravel for Trench Backfill	5,412 TN	\$25	\$135,300
24	Dewatering	1 LS	\$17,000	\$17,000
25	Connect Ex. Structure via Duplex Grinder Pump (tank, pump, piping, and valves)	0 EA	\$16,000	\$0
26	Locate, uncover & Abandon Existing Septic System	0 EA	\$1,500	\$0
27	Erosion / Water Pollution Control	1 LS	\$10,000	\$10,000
28	Restoration	1 LS	\$45,000	\$45,000
29	Project Documentation	1 LS	\$3,000	\$3,000
30	Pipe Suspension Bridge with 240 LF of 6" DI FM	240 LF	\$2,000	\$480,000

Estimated Construction Cost		\$1,682,510
Construction Contingency	20.0%	\$336,502
Sales Tax	8.9%	\$179,692
<b>Total Estimated Construction Cost</b>		<b>\$2,199,000</b>

ULID Costs	30%	\$659,700
Engineering Design	15%	\$329,850
Construction Management	15%	\$329,850
Administration	6%	\$131,940
Permitting	4%	\$87,960
Environmental Studies & Mitigation	3%	\$65,970
Archeological Studies	2%	\$43,980

<b>Total Estimated Project Cost</b>		<b>\$3,849,000</b>
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**Assumptions include:**

All small diameter pipe crossings shall be moled, all large diameter crossings shall be bored  
100% trench backfill import material  
Quantities increased by 10%, rounded up  
Full-width overlay required on 14th Street and Boalch  
All trenches are 4 feet wide, including joint trenches

**2021 Cost:**  
**\$4,083,404**

**CITY OF NORTH BEND**  
**MEADOWBROOK SEWER STUDY**  
**ENGINEER'S PLANNING LEVEL COST ESTIMATE**  
**20-Jan-19**  
**G & O #18622.00**

**NO CONNECTIONS - SOUTH GRINDER PUMP SYSTEM**

<b>ITEM NO.</b>	<b>BASE BID: DESCRIPTION</b>	<b>ESTIMATED QUANTITY</b>	<b>UNIT PRICE</b>	<b>AMOUNT</b>
1	Unexpected Site Changes	1 CALC	\$25,000	\$25,000
2	Survey	1 LS	\$9,500	\$9,500
3	SPCC Plan	1 LS	\$1,500	\$1,500
4	Mobilization, Cleanup, and Demobilization	1 LS	\$127,000	\$127,000
5	Project Temporary Traffic Control	1 LS	\$60,000	\$60,000
6	Clearing and Grubbing	1 LS	\$20,000	\$20,000
7	Removal of Structures and Obstructions	1 LS	\$15,450	\$15,450
8	Sawcutting	9,460 LF	\$3	\$28,380
9	Locate Existing Utilities	1 LS	\$10,000	\$10,000
10	Controlled Density Fill	5 CY	\$250	\$1,250
11	Crushed Surfacing Base Course	1,244 TN	\$25	\$31,100
12	Temporary HMA	40 TN	\$250	\$10,000
13	HMA Cl. 1/2" PG 64-22 Patching	396 TN	\$200	\$79,200
14	HMA Cl. 1/2" PG 64-22 Overlay	1,263 TN	\$110	\$138,930
15	4" Pressure Main, Incl. bedding & backfill	5,155 LF	\$50	\$257,750
16	6" Pressure Main, Incl. bedding & backfill	2,300 LF	\$55	\$126,500
17	6" Pressure Main, Bore w/Casing under RR/NBW/SR202 on 8th Street	710 LF	\$250	\$177,500
18	Air and Vacuum Release Valve	2 EA	\$4,000	\$8,000
19	Pressure Main Cleanout	8 EA	\$3,000	\$24,000
20	HDPE Sewer grinder Pump Low Pressure Main, 1.25 In. Diam., Incl. bedding & backfill	0 LF	\$40	\$0
21	Removal of Unsuitable Material (Trench)	110 CY	\$40	\$4,400
22	Trench Excavation Safety Systems	1 LS	\$20,000	\$20,000
23	Bank Run Gravel for Trench Backfill	5,297 TN	\$25	\$132,425
24	Dewatering	1 LS	\$17,000	\$17,000
25	Connect Ex. Structure via Duplex Grinder Pump (tank, pump, piping, and valves)	0 EA	\$16,000	\$0
26	Locate, uncover & Abandon Existing Septic System	0 EA	\$1,500	\$0
27	Erosion / Water Pollution Control	1 LS	\$10,000	\$10,000
28	Restoration	1 LS	\$50,000	\$50,000
29	Project Documentation	1 LS	\$3,000	\$3,000
30	Pipe Suspension Bridge with 240 LF of 6" DI FM	0 LF	\$60	\$0

Estimated Construction Cost		\$1,387,885
Construction Contingency	20.0%	\$277,577
Sales Tax	8.9%	\$148,226
<b>Total Estimated Construction Cost</b>		<b>\$1,814,000</b>

ULID Costs	30%	\$544,200
Engineering Design	15%	\$272,100
Construction Management	15%	\$272,100
Administration	6%	\$108,840
Permitting	4%	\$72,560
Environmental Studies & Mitigation	3%	\$54,420
Archeological Studies	2%	\$36,280
<b>Total Estimated Project Cost</b>		<b>\$3,175,000</b>

Does not include costs associated with funding via and LID or ULID

**2021 Cost:  
\$3,368,358**

**Assumptions include:**

- All small diameter pipe crossings shall be moled, all large diameter crossings shall be bored
- 100% trench backfill import material
- Quantities increased by 10%, rounded up
- Full-width overlay required on Alm Way, 8th Street
- All trenches are 4 feet wide, including joint trenches