

5.0 COST ESTIMATES

The cost estimates in this report are intended to provide a general guideline as to the magnitude of the proposed project. No specific field investigations were made. These estimates are based upon prices from similar, recent projects, and represent the engineer's best judgment. Actual construction prices will vary from these estimates. The preliminary cost estimates, shown on the following pages, include all construction and administration costs associated with the proposed improvements.

The unusually high inflation experienced over the last several months has been considered, and some allowance has been made, but the assumption is that the construction material market will correct sometime in the next year. The estimates generally reflect 15% - 20% greater costs than would have been estimated in 2020. If there is no correction by the time these projects are ready for construction, these cost estimates might be low.

K-4 Hwy, Keene to Sunnyside

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Extension</u>
1	4" PVC Pipe	L.F.	5,200	\$ 9.00	\$ 46,800
2	4" Valve & Box	EA.	2	1,200	2,400
3	4" Highway Crossing	EA.	1	10,000	10,000
4	4" Stream Crossing	EA.	2	12,000	24,000
5	Air Release Valve	EA.	2	1,500	3,000
6	Re-Connect Ex. Services	EA.	3	1,000	3,000
7	Connect to Existing Pipeline	EA.	2	1,800	3,600
8	Post Hydrant	EA.	2	2,000	4,000
9	Contingencies (10%)		L U M P S U M		10,000
Total Construction Cost					\$ 106,800
Engineering, Inspection, Legal, Easements, Etc.					\$ 27,000
Total Project Cost					\$ 133,800

Keene-Eskridge, S Boundary to K-4

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Extension</u>
1	4" PVC Pipe	L.F.	8,000	\$ 9.00	\$ 72,000
2	4" Valve & Box	EA.	3	1,200	3,600
3	2" Valve & Box	EA.	1	800	800
4	4" Road Crossing	EA.	2	5,000	10,000
5	4" Stream Crossing	EA.	2	12,000	24,000

6	Air Release Valve	EA.	2	1,500	3,000
7	Re-Connect Ex. Services	EA.	3	1,000	3,000
8	Connect to Existing Pipeline	EA.	3	1,800	5,400
9	Post Hydrant	EA.	2	2,000	4,000
10	Contingencies (10%)		L U M P	S U M	13,000
	Total Construction Cost				\$ 138,800
	Engineering, Inspection, Legal, Easements, Etc.				\$ 35,000
	Total Project Cost				\$ 173,800

Warren, west of Maple Hill

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Extension</u>
1	3" PVC Pipe	L.F.	5,000	\$ 7.00	\$ 35,000
2	3" Valve & Box	EA.	2	1,000	2,000
3	3" Stream Crossing	EA.	1	8,000	8,000
4	Air Release Valve	EA.	2	1,500	3,000
5	Re-Connect Ex. Services	EA.	4	1,000	4,000
6	Connect to Existing Pipeline	EA.	2	1,800	3,600
7	Post Hydrant	EA.	1	2,000	2,000
8	Contingencies (10%)		L U M P	S U M	6,000
	Total Construction Cost				\$ 63,600
	Engineering, Inspection, Legal, Easements, Etc.				\$ 16,000
	Total Project Cost				\$ 79,600

Blazing Star, Standpipe to Blazing Star

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Extension</u>
1	4" PVC Pipe	L.F.	8,300	\$ 10.00	\$ 83,000
2	4" Valve & Box	EA.	4	1,200	4,800
3	4" Road Crossing	EA.	1	5,000	5,000
4	4" Stream Crossing	EA.	1	12,000	12,000
5	Air Release Valve	EA.	1	1,500	1,500
6	Re-Connect Ex. Services	EA.	2	1,000	2,000
7	Connect to Existing Pipeline	EA.	4	1,800	7,200
8	Post Hydrant	EA.	2	2,000	4,000
9	Contingencies (10%)		L U M P	S U M	12,000
	Total Construction Cost				\$ 131,500
	Engineering, Inspection, Legal, Easements, Etc.				\$ 33,000
	Total Project Cost				\$ 164,500

K-4 Hwy, Sunnyside to Gladden

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Extension</u>
1	4" PVC Pipe	L.F.	8,000	\$ 9.00	\$ 72,000
2	4" Valve & Box	EA.	3	1,200	3,600
3	2" Valve & Box	EA.	2	800	1,600
4	4" Road Crossing	EA.	1	5,000	5,000
5	4" Stream Crossing	EA.	7	12,000	84,000
6	Air Release Valve	EA.	4	1,500	6,000
7	Re-Connect Ex. Services	EA.	13	1,000	13,000
8	Connect to Existing Pipeline	EA.	3	1,800	5,400
9	Post Hydrant	EA.	2	2,000	4,000
10	Contingencies (10%)		L U M P	S U M	19,000
Total Construction Cost					\$ 213,600
Engineering, Inspection, Legal, Easements, Etc.					\$ 53,000
Total Project Cost					\$ 266,600

21st, Keene-Eskridge to Sunnyside

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Extension</u>
1	3" PVC Pipe	L.F.	3,900	\$ 7.00	\$ 27,300
2	3" Valve & Box	EA.	2	1,000	2,000
3	2" Valve & Box	EA.	1	800	800
4	3" Stream Crossing	EA.	2	15,000	30,000
5	Air Release Valve	EA.	1	1,500	1,500
6	Re-Connect Ex. Services	EA.	1	1,000	1,000
7	Connect to Existing Pipeline	EA.	2	1,800	3,600
8	Post Hydrant	EA.	1	2,000	2,000
9	Contingencies (10%)		L U M P	S U M	7,000
Total Construction Cost					\$ 75,200
Engineering, Inspection, Legal, Easements, Etc.					\$ 19,000
Total Project Cost					\$ 94,200

Buffalo Mound, north of I-70

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Extension</u>
1	4" PVC Pipe	L.F.	6,400	\$ 9.00	\$ 57,600
2	4" Valve & Box	EA.	3	1,200	3,600
3	2" Valve & Box	EA.	1	800	800
4	4" Railroad Crossing	EA.	1	15,000	15,000
5	4" Road Crossing	EA.	1	5,000	5,000
6	4" Major Stream Crossing	EA.	1	30,000	30,000
7	4" Stream Crossing	EA.	1	12,000	12,000
8	Air Release Valve	EA.	1	1,500	1,500
9	Re-Connect Ex. Services	EA.	3	1,000	3,000
10	Connect to Existing Pipeline	EA.	3	1,800	5,400
11	Post Hydrant	EA.	1	2,000	2,000
12	Contingencies (10%)		L U M P	S U M	14,000
Total Construction Cost					\$ 149,900
Engineering, Inspection, Legal, Easements, Etc.					\$ 37,000
Total Project Cost					\$ 186,900

Keene-Eskridge, Blazing Star to north of 21st

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Extension</u>
1	3" PVC Pipe	L.F.	11,500	\$ 7.00	\$ 80,500
2	3" Valve & Box	EA.	3	1,000	3,000
3	2" Valve & Box	EA.	3	800	2,400
4	3" Road Crossing	EA.	3	4,000	12,000
5	3" Stream Crossing	EA.	5	8,000	40,000
6	Air Release Valve	EA.	3	1,500	4,500
7	Re-Connect Ex. Services	EA.	8	1,000	8,000
8	Connect to Existing Pipeline	EA.	4	1,800	7,200
9	Post Hydrant	EA.	1	2,000	2,000
10	Contingencies (10%)		L U M P	S U M	16,000
Total Construction Cost					\$ 175,600
Engineering, Inspection, Legal, Easements, Etc.					\$ 44,000
Total Project Cost					\$ 219,600

North I-70 Ramps

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Extension</u>
1	3" PVC Pipe	L.F.	2,200	\$ 8.00	\$ 17,600
2	3" Valve & Box	EA.	2	1,000	2,000
3	2" Valve & Box	EA.	1	800	800
4	3" Road Crossing	EA.	1	4,000	4,000
5	3" Stream Crossing	EA.	1	10,000	10,000
6	Air Release Valve	EA.	1	1,500	1,500
7	Re-Connect Ex. Services	EA.	1	1,000	1,000
8	Connect to Existing Pipeline	EA.	3	1,800	5,400
9	Post Hydrant	EA.	1	2,000	2,000
10	Contingencies (10%)		L U M P S U M		4,000
Total Construction Cost					\$ 48,300
Engineering, Inspection, Legal, Easements, Etc.					\$ 12,000
Total Project Cost					\$ 60,300

Windy Hill, north of standpipe

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Extension</u>
1	6" PVC Pipe	L.F.	10,600	\$ 15.00	\$ 159,000
2	6" Valve & Box	EA.	3	1,500	4,500
3	2" Valve & Box	EA.	2	800	1,600
4	6" Road Crossing	EA.	2	6,500	13,000
5	6" Stream Crossing	EA.	4	30,000	120,000
6	3" Road Crossing	EA.	1	4,000	4,000
7	Air Release Valve	EA.	1	1,500	1,500
8	Re-Connect Ex. Services	EA.	7	1,000	7,000
9	Connect to Existing Pipeline	EA.	3	1,800	5,400
10	Post Hydrant	EA.	1	2,000	2,000
11	Contingencies (10%)		L U M P S U M		32,000
Total Construction Cost					\$ 350,000
Engineering, Inspection, Legal, Easements, Etc.					\$ 88,000
Total Project Cost					\$ 438,000

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