



**Public Utilities Department
Utilities Maintenance Division
Proposed Capital Improvement Plan
July 12, 2007**

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The Town of Boone Public Utilities Department has developed the following list of areas within the Town that are in need of replacement / rehabilitation of sewer main and apparatus.

1. A) Project Need: Orchard Street. are served by old four inch and six inch clay sewer mains and have no manholes..

B) Project Recommendation: This project has not been included in previous long range plans. Based on Old Bristol Road sewer project, I estimate that the entire project will cost \$ 84,025.00 This project will consist of:

Mobilization =	\$ 5000.00
955 lf eight-inch ductile iron pipe @ 55.00 per lf. =	\$ 52,525.00
3 manholes @ \$ 3000.00. =	\$ 9,000.00
12 four-inch lateral replacements @ \$ 900.00 =	\$ 10,800.00
100 tons of gravel @ \$ 19.00 per ton =	\$ 1,900.00
80 tons of asphalt @ \$ 60.00 per ton =	<u>\$ 4,800.00</u>
	\$ 84,025.00

All engineering, permitting, and asphalt overlay cost will be in addition to this total. This project should be scheduled and included in the 2008-2009 budget year.

2. A) Project Whitener Drive,. are served by old four inch and six inch clay sewer mains and have no manholes..

B) Project Recommendation: This project has not been included in previous long range plans. Based on Old Bristol Road sewer project, I estimate that the entire project will cost \$ 92,210.00 This project will consist of:

Mobilization =	\$ 5000.00
1022 lf eight-inch ductile iron pipe @ 55.00 per lf. =	\$ 56,210.00
6 manholes @ \$ 3000.00. =	\$ 18,000.00
7 four-inch lateral replacements @ \$ 900.00 =	\$ 6,300.00

100 tons of gravel @ \$ 19.00 per ton =	\$ 1,900.00
80 tons of asphalt @ \$ 60.00 per ton =	<u>\$ 4,800.00</u>
	\$ 92,210.00

All engineering, permitting, and asphalt over lay cost will be in addition to this total. This project should be scheduled and included in the 2009-2010 budget year.

3. A) Project Need: Pinnacle Drive,. are served by old four inch and six inch clay sewer mains and have no manholes..

B) Project Recommendation: This project has not been included in previous long range plans. Based on Old Bristol Road sewer project, I estimate that the entire project will cost \$ 116,860.00 This project will consist of:

Mobilization =	\$ 5000.00
1,500 lf eight-inch ductile iron pipe @ 55.00 per lf. =	\$ 82,500.00
5 manholes @ \$ 3000.00. =	\$ 15,000.00
8 four-inch lateral replacements @ \$ 900.00 =	\$ 7,200.00
140 tons of gravel @ \$ 19.00 per ton =	\$2,660.00
75 tons of asphalt @ \$ 60.00 per ton =	<u>\$ 4,500.00</u>
	\$ 116,860.00

All engineering, permitting, and asphalt overlay cost will be in addition to this total. This project should be scheduled and included in the 2010-2011 budget year.

4 A) Project Need: Crest Drive,Mac Street, and Arbor Lane. are served by old four inch and six inch clay sewer mains and have no manholes..

B) Project Recommendation: This project has not been included in previous long range plans. Based on Old Bristol Road sewer project, I estimate that the entire project will cost \$ 175,875.00 This project will consist of:

Mobilization =	\$ 5000.00
2000 lf eight-inch ductile iron pipe @ 55.00 per lf. =	\$110,000.00
10 manholes @ \$ 3000.00. =	\$ 30,000.00
25 four-inch lateral replacements @ \$ 900.00 =	\$ 22,500.00
125 tons of gravel @ \$ 19.00 per ton =	\$ 2,375.00
100 tons of asphalt @ \$ 60.00 per ton =	<u>\$ 6,000.00</u>
	\$ 175,875.00

All engineering, permitting, and asphalt overlay cost will be in addition to this total. This project should be scheduled and included in the 2011-2012 budget year.

5. A) Project Need: Pine Street, Woodland Drive, and Blanwood Drive,. are served by old four inch and six inch clay sewer mains and have no manholes..

B) Project Recommendation: This project has not been included in previous long range plans. Based on Old Bristol Road sewer project, I estimate that the entire project will cost \$ 215,765.00 This project will consist of:

Mobilization =	\$ 5000.00
2718 lf eight-inch ductile iron pipe @ 55.00 per lf. =	\$ 149,490.00
10 manholes @ \$ 3000.00. =	\$ 30,000.00
20 four-inch lateral replacements @ \$ 900.00 =	\$ 18,000.00
225 tons of gravel @ \$ 19.00 per ton =	\$ 4,275.00
150 tons of asphalt @ \$ 60.00 per ton =	<u>\$ 9,000.00</u>
	\$ 215,765.00

All engineering, permitting, and asphalt overlay cost will be in addition to this total. This project should be scheduled and included in the 2012-2013 budget year.