

Engineers Estimate of Construction Costs

Kent Subdivision No. 2

15 August 2022

		Quantity	Units	Amount	Total
ROADWAY IMPROVEMENTS					
1.	Mobilization, insurance & bonds (3% of bid).	1	ls	\$10,600.00	\$10,600.00
2.	Install 30" standard curb & gutter.	1312	lf	\$29.25	\$38,376.00
3.	Install 4' wide x 4" thick concrete sidewalk.	1163	lf	\$20.00	\$23,260.00
4.	Install 4' wide x 6" thick concrete sidewalk.	150	lf	\$24.00	\$3,600.00
5.	Install handicap ramp with pad.	2	ea	\$1,800.00	\$3,600.00
6.	Install stop sign with street sign attached.	1	ea	\$425.00	\$425.00
7.	Saw cut asphalt (along 3500 West - approximately 375 lf.)	1	ls	\$3,375.00	\$3,375.00
8.	Install 3" thick bituminous asphalt.	480	ton	\$84.00	\$40,320.00
9.	Install 6" thick untreated roadbase.	860	ton	\$23.00	\$19,780.00
10.	Install 8" thick of 4" minus subbase.	1150	ton	\$15.00	\$17,250.00
11.	Install survey monuments.	3	ea	\$625.00	\$1,875.00
12.	Install community mailbox.	1	ea	\$3,000.00	\$3,000.00
SANITARY SEWER IMPROVEMENTS					
1.	Install 8" pvc sanitary sewer pipe.	134	lf	\$45.00	\$6,030.00
2.	Install 4' diameter sanitary sewer manhole.	1	ea	\$4,200.00	\$4,200.00
3.	Install 5' diameter sanitary sewer manhole on existing pipeline.	1	ea	\$5,000.00	\$5,000.00
4.	Connect to existing sanitary sewer manhole.	1	ls	\$8,125.00	\$8,125.00
5.	Install 4" pvc sanitary sewer lateral piping.	4	ea	\$2,000.00	\$8,000.00
6.	Install pipe bedding materials (1" crushed gravel).	35	ton	\$19.00	\$665.00
7.	Install trench backfill materials.	210	ton	\$14.00	\$2,940.00
8.	Install concrete collars for manholes.	3	ea.	\$725.00	\$2,175.00
STORM DRAIN IMPROVEMENTS					
1.	Install storm drain catch basin.	1	ea	\$2,400.00	\$2,400.00
2.	Install storm drain combination box.	3	ea	\$3,750.00	\$11,250.00
3.	Remove existing and install 5' diameter storm drain manhole.	1	ea	\$5,300.00	\$5,300.00
4.	Install storm drain inlet/outlet box (in detention basin).	1	ea	\$9,200.00	\$9,200.00
5.	Install 15" rcp, class III, storm drain pipe.	114	lf	\$39.50	\$4,503.00
6.	Remove storm drain box.	1	ea	\$250.00	\$250.00
7.	Remove storm drain pipe.	6	lf	\$300.00	\$1,800.00

8.	Modify storm drain box & raise to grade in new sidewalk.	1	ls	\$1,400.00	\$1,400.00
9.	Construct detention basin (approximately 6,700 cf.).	1	ls	\$26,000.00	\$26,000.00
10.	Install pipe bedding materials (1" crushed gravel).	5	ton	\$19.00	\$95.00
11.	Install trench backfill materials.	20	ton	\$14.00	\$280.00
CULINARY WATER IMPROVEMENTS					
1.	Install 8" pvc C-900 DR-18 culinary water pipe.	470	lf	\$41.00	\$19,270.00
2.	Waterline connection on 3500 West Street (14" x 8" tee with 14" butterfly valv FLG x MJ).	1	ls	\$6,500.00	\$6,500.00
3.	Install 1" CTS Poly pipe SDR 9 culinary water lateral pipe.	4	ea.	\$1,000.00	\$4,000.00
4.	Install meter box.	4	ea	\$350.00	\$1,400.00
5.	Install fire hydrant complete with gate valve & 6" piping.	2	ea	\$6,200.00	\$12,400.00
6.	Install 8" gate valve, complete.	1	ea	\$2,950.00	\$2,950.00
7.	Install pipe bedding materials (1" crushed gravel).	115	ton	\$19.00	\$2,185.00
8.	Install trench backfill materials.	265	ton	\$14.00	\$3,710.00
9.	Install concrete collars for valve boxes.	3	ea.	\$610.00	\$1,830.00
SECONDARY WATER IMPROVEMENTS					
1.	Install 6" C-900 DR-18 pvc secondary water pipe (purple).	475	lf	\$31.00	\$14,725.00
2.	Install 1-1/2" CTS poly secondary water lateral pipe.	70	lf	\$27.00	\$1,890.00
3.	Install double secondary water service meter.	2	ea	\$1,175.00	\$2,350.00
4.	Hot tap connection on 3500 West Street (6" x 24" hot tap).	1	ls	\$6,400.00	\$6,400.00
5.	Install 6" gate valve.	1	ea	\$2,800.00	\$2,800.00
6.	Install pipe bedding materials (1" crushed gravel).	115	ton	\$19.00	\$2,185.00
7.	Install trench backfill.	265	ton	\$14.00	\$3,710.00
8.	Install concrete collars for valve boxes.	1	ea.	\$610.00	\$610.00
Subtotal - Cost of Improvements					\$353,989.00
Construction & Bonding Contingencies (10%)					\$35,400.00
Total - Cost of Improvements					\$389,389.00