

APPENDIX 2

BRIGHTWATER CLUB

Engineer's Opinion of Probable Cost (Road overlay's, crack sealing & settlement repair)

5/20/2013

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
	BUCKTAIL				
	2" Asphalt Overlay	TN	842	110.00	\$ 92,620.00
	2" Gravel Shouldering	TN	124	40.00	\$ 4,960.00
	Mobilization / Traffic Control (10%)	LS	1		\$ 9,758.00
	Subtotal				\$ 107,338.00
	HERON'S WAY				
	2" Asphalt Overlay	TN	644	110.00	\$ 70,840.00
	2" Gravel Shouldering	TN	90	40.00	\$ 3,600.00
	Mobilization / Traffic Control (10%)	LS	1		\$ 7,444.00
	Subtotal				\$ 81,884.00
	CUTBOW				
	2" Asphalt Overlay	TN	588	110.00	\$ 64,680.00
	2" Gravel Shouldering	TN	89	40.00	\$ 3,560.00
	Mobilization / Traffic Control (10%)	LS	1		\$ 6,824.00
	Subtotal				\$ 75,064.00
	TALLGRASS				
	2" Asphalt Overlay	TN	616	110.00	\$ 67,760.00
	2" Gravel Shouldering	TN	75	40.00	\$ 3,000.00
	Mobilization / Traffic Control (10%)	LS	1		\$ 7,076.00
	Subtotal				\$ 77,836.00
	BRIGHTWATER CLUB DRIVE				
	2" Asphalt Overlay	TN	2,606	110.00	\$ 286,660.00
	2" Gravel Shouldering	TN	313	40.00	\$ 12,520.00
	2" Milling Tie-In	LF	1,305	4.00	\$ 5,220.00
	Mobilization / Traffic Control (10%)	LS	1		\$ 30,440.00
	Subtotal				\$ 334,840.00
	FOX PROWL				
	2" Asphalt Overlay	TN	780	110.00	\$ 85,800.00
	2" Gravel Shouldering	TN	98	40.00	\$ 3,920.00
	Mobilization / Traffic Control (10%)	LS	1		\$ 8,972.00
	Subtotal				\$ 98,692.00

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	HARE'S EAR				
	2" Asphalt Overlay	TN	201	110.00	\$ 22,110.00
	2" Gravel Shouldering	TN	23	40.00	\$ 920.00
	Mobilization / Traffic Control (10%)	LS	1		\$ 2,303.00
	Subtotal				\$ 25,333.00
	BLUESTEM				
	2" Asphalt Overlay	TN	186	110.00	\$ 20,460.00
	2" Gravel Shouldering	TN	22	40.00	\$ 880.00
	Mobilization / Traffic Control (10%)	LS	1		\$ 2,134.00
	Subtotal				\$ 23,474.00
	HEARTHSTONE				
	2" Asphalt Overlay	TN	660	110.00	\$ 72,600.00
	2" Gravel Shouldering	TN	77	40.00	\$ 3,080.00
	2" Milling Tie-In	LF	3,620	4.00	\$ 14,480.00
	Mobilization / Traffic Control (10%)	LS	1		\$ 9,016.00
	Subtotal				\$ 99,176.00
	LANTERNS WAY				
	2" Asphalt Overlay	TN	421	110.00	\$ 46,310.00
	2" Gravel Shouldering	TN	49	40.00	\$ 1,960.00
	2" Milling Tie-In	LF	2,310	4.00	\$ 9,240.00
	Mobilization / Traffic Control (10%)	LS	1		\$ 5,751.00
	Subtotal				\$ 63,261.00
	BRIDLE PATH				
	2" Asphalt Overlay	TN	409	110.00	\$ 44,990.00
	2" Gravel Shouldering	TN	54	40.00	\$ 2,160.00
	2" Milling Tie-In	LF	2,160	4.00	\$ 8,640.00
	Mobilization / Traffic Control (10%)	LS	1		\$ 5,579.00
	Subtotal				\$ 61,369.00

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	SADDLEHORN CT				
	2" Asphalt Overlay	TN	294	110.00	\$ 32,340.00
	2" Gravel Shouldering	TN	34	40.00	\$ 1,360.00
	2" Milling Tie-In	LF	1,595	4.00	\$ 6,380.00
	Mobilization / Traffic Control (10%)	LS	1		\$ 4,008.00
	Subtotal				\$ 44,088.00
	LASSO				
	2" Asphalt Overlay	TN	172	110.00	\$ 18,920.00
	2" Gravel Shouldering	TN	20	40.00	\$ 800.00
	2" Milling Tie-In	LF	795	4.00	\$ 3,180.00
	Mobilization / Traffic Control (10%)	LS	1		\$ 2,290.00
	Subtotal				\$ 25,190.00
	DOLL STATION				
	2" Asphalt Overlay	TN	390	110.00	\$ 42,900.00
	2" Gravel Shouldering	TN	49	40.00	\$ 1,960.00
	Mobilization / Traffic Control (10%)	LS	1		\$ 4,486.00
	Subtotal				\$ 49,346.00
	VILLAGE CLUB DRIVE				
	2" Asphalt Overlay	TN	238	110.00	\$ 26,180.00
	2" Gravel Shouldering	TN	28	40.00	\$ 1,120.00
	Mobilization / Traffic Control (10%)	LS	1		\$ 2,730.00
	Subtotal				\$ 30,030.00
	TOTAL				\$ 1,196,921.00

The current cost for crack sealing is approximately \$1.50 per lineal foot. Following a general observation of the joints between the asphalt and the curb/gutter, it appears that approximately 80% of these joints would warrant crack sealing. The total amount of crack sealing that may be warranted at the present time is estimated at 10,000-12,000 lineal feet, or \$15,000-\$18,000. It should be noted that once all of the current cracks are sealed, an annual crack sealing program should cost substantially less than the cost noted here.

The current cost for repair of settled areas is \$10-\$12/square foot (this cost would go up for only a few repairs and would come down if many repairs are done at the same time). As noted on page 2 of the report, the settlement in the outbound lane at the gate house appears to be more substantial than localized settlement around a manhole. The repair area west of the gate is approximately 28'x13' and the area east of the gate is 50'x15' resulting in a pavement repair cost of approximately \$12,000. The attached curb & gutter removal and replacement would be approximately \$3500, for a total of \$15,500. This cost could rise, should geogrid or subdrains be required following inspection of the existing subgrade. There are approximately 45 other settlement areas. The average repair area is approximately 12'x12' and the cost range for the pavement repair to all of the remaining settled areas would be \$65,000 to \$78,000. As the area around the gatehouse is unusable, it is recommended this area be repaired as soon as it is practicable. The remaining repairs could be apportioned out over a number of years.