

Engineer's Estimate (17 18)

Project: Hammock Road
 Estimator: Ainsley
 Work Order No. P03795.00

Date: July 5, 2019
 P/VAS No. 3322
 District No. 5

	Street Name	County Maint. Y/N	Road Rating	Width	Length	Sy.- Paving	Drives	Mailboxes	Spandrels	T's	Manhole	W.Valve	Cul de Sac	Turnaround	Sidewalk Repair SY	Base Repair SY
1	Hammock Road	Y	F	24	1630	4347.0	12		4	2						
2						0.0							0	0		0
3						0.0							0	0		0
4																
5																
6	2 cc driveways															
7	1 grated inlet															
8																
9																
10																
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44																
45																
TOTALS =					1,630.0	4,347.0	12	0	4	2	0	0	0	0	0	0
<u>Combined Distance = 0.31 MILES</u>					Length	Sy.- Paving	Drives	Mailboxes	Spandrels	T's	Manhole	W.Valve	Cul de Sac	Turnaround	Sidewalk Repair SY	Base Repair SY

AREA IN SY.	4,347.0
Spandrels @ 30 Sy. Ea.	8 240
T' Turn Around @ 50 Sy. Ea.	2 100
Cul-de-Sac @ 520 Sy. Ea.	0 0
Drives @ 20SY Ea. (Turnouts)	12 240
Total Sy. Ex. Pavement =	<u>4,933.0 Sy.</u>

Required Asphalt

Type	Spread (lb/sy)	Tonnage
Type S-I Asphalt Concrete Cement (ACC), Leveling	165	407
Type S-III ACC, Leveling	0	0
Type S-II ACC, Surface or Intermediate Course	110	271
Type S-I ACC, Deep Patch (4"+ 1". Incl. Shoulder Widening, Pavement Widening and Driveway Const.).	525	0 As Base Restorat
Type S-I ACC, Deep Patch (4"+ 1". Incl. Shoulder Widening, Pavement Widening and Driveway Const.).		10% Deep Patch for Driveways Repairs
Type FC-3 (without rubber)		0 As Base Restorat
Type PD-III ACC, Surface or Intermediate Course		0

BASE REPAIR PERCENTAGE MULTPLIER	0.00%
SIDEWALK PERCENTAGE MULTPLIER	0.00%
SIDEWALK WIDTH	0 FT
SIDEWALK THICKNESS	0 IN (4" OR 6")
SHOULDER REWORK WIDTH	0 FT
SOD WIDTH	0 FT

Engineer's Estimate - Asphalt Contract

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ASPHALT ITEMS

ITEM NO.	DESCRIPTION	QTY.	UNITS	UNIT PRICE	AMOUNT
102-91	Temporary Pavement Markings (Paint)	183	LF	\$0.25	\$40.75
102-10-2	Temporary Pavement Markings (Tape)		LF	\$5.00	
104-10-1	Baled Hay (Staked)		EA	\$7.50	
104-11	Turbidity Barrier (Floating)		LF	\$12.00	
104-13	Silt Fence (Staked)		LF	\$0.75	
104-16	Rock Bags	3,749	EA	\$0.75	\$2,811.75
110-1-1A	Clearing and Grubbing < 6"		AC	\$2,000.00	
110-1-1B	Clearing and Grubbing > 6"		AC	\$4,500.00	
110-4	Removal of Existing Pavement (Concrete)	40	SY	\$12.50	\$500.00
110-47	Road Edge Preparation		LF	\$0.55	
110-48	Sawcut Concrete Driveways	30	LF	\$3.50	\$105.00
110-49	Sawcut Asphaltic Concrete		LF	\$3.50	
110-50	"Pickup" Type Power Broom	8	HR	\$130.00	\$1,007.31
110-7	Mailboxes (Relocation) (Furnish and Install)		EA	\$390.00	
120-1	Regular Excavation		CY	\$11.50	
120-2	Borrow Excavation		CY	\$11.75	
120-6	Embankment		CY	\$10.00	
121-70	Flowable Fill		CY	\$220.00	
160-4-1	Stabilization, Type "B" (6")(LBR40)		SY	\$2.75	
160-4-2	Stabilization, Type "B" (12")(LBR40)		SY	\$4.00	
162-2	Topsoil		SY	\$17.00	
270-1-A	Full Depth Reclamation (6" Depth)	4,933	SY	\$5.50	\$27,131.50
270-1-A1	Full Depth Reclamation (10" Depth)		SY	\$6.50	
270-1-B	Portland Cement	49	TN	\$145.00	\$7,105.00
270-1	Soil Cement Base (300 psi) (Plant-Mixed) (6")		SY	\$8.00	
270-1-1	Soil Cement Base (300 psi) (Plant-Mixed) (10")		SY	\$10.00	
210-2	Limerock, New Material for rework base		TN	\$17.50	
285-705-12	Base (Optional) Limerock (6")		SY	\$8.00	
285-707-11	Base (Optional) Limerock (8")		SY	\$10.50	
285-710-11	Base (Optional) Limerock (10")		SY	\$12.00	
285A	Crushed Concrete Base		SY	\$17.00	
285B	Blended Base		SY	\$18.00	
286-1	Turnout Construction (Concrete)		SY	\$65.00	
286-2	Turnout Construction (Asphalt)		TN	\$200.00	
310-1	Single Surface Treatment		SY	\$2.10	
310-2	Double Surface Treatment		SY	\$3.50	
310-3	Triple Surface Treatment		SY	\$4.90	
327-70-8	Milling of Existing Asphalt Pavement (2-1/2" Maximum Depth) (Various Widths)		SY	\$1.75	
327-70-8A	Milling of Existing Asphalt Pavement (2-1/2" Maximum Depth) (Various Widths)		SY	\$2.50	
327-70-8B	Haul and Stockpile Millings		CY-MI	\$0.90	
331-1	Asphalt Price Index Adjustment	9,572	GA	\$0.15	\$1,435.76
331-2-1	Type S-I Asphalt Concrete Cement (ACC), Leveling	407	TN	\$90.00	\$36,630.00
331-2-4	Type S-III ACC, Leveling		TN	\$95.00	
331-2-6	Type S-III ACC, Surface or Intermediate Course	271	TN	\$92.00	\$24,932.00
331-2-7	Type S-I ACC, Deep Patch		TN	\$105.00	
331-2-8	Type ABC-3		TN	\$110.00	
331-2-9	Type FC-3 (without rubber)		TN	\$95.00	
334-1	Type PD-III ACC, Surface or Intermediate Course		TN	\$95.00	
334-1-1	Cold In Place Recycling (3"-5")		TN	\$6.50	
334-1-2	Asphalt Emulsion Added	7,400	GA	\$2.25	\$16,648.88
339-1	Miscellaneous Asphalt Pavement		TN	\$185.00	
400-1-2	Endwall (Class II Concrete)		CY	\$750.00	
400-1-15	Class I Concrete (Miscellaneous)		CY	\$575.00	
415-1	Reinforcing Steel		LB	\$2.50	
425-10	Yard Drains		EA	\$1,000.00	
425-1-31	Inlet (Curb Type P-1)		EA	\$3,250.00	
425-1-32	Inlet (Curb Type P-2)		EA	\$3,250.00	
425-1-33	Inlet (Curb Type P-3)		EA	\$3,000.00	
425-1-34	Inlet (Curb Type P-4)		EA	\$3,000.00	
425-1-41	Inlet (Curb Type J-1)		EA	\$4,250.00	
425-1-42	Inlet (Curb Type J-2)		EA	\$4,000.00	
Sub Total					\$118,387.95

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425-1-43	Inlet (Curb Type J-3)		EA	\$3,900.00	
425-1-44	Inlet (Curb Type J-4)		EA	\$4,000.00	
425-1-47	Inlet (Curb Type 7)		EA	\$3,900.00	
425-1-48	Inlet (Curb Type 8)		EA	\$3,900.00	
425-1-52	Inlets (DT BOT Type C)		EA	\$2,500.00	
425-1-54	Inlets (DT BOT Type D)		EA	\$2,800.00	
425-1-55	Inlets (DT BOT Type E)		EA	\$3,000.00	
425-1-58	Inlets (DT BOT Type H)		EA	\$3,100.00	
425-1-71	Inlets (Gutter Type V)		EA	\$3,100.00	
425-5	Adjusting Manholes (riser rings)		EA	\$200.00	
425-5A	Manhole Cover (replace)		EA	\$250.00	
425-6	Adjusting Valve Boxes		EA	\$150.00	
430-11-423	15" Reinforced Concrete Pipe (Class IV)		LF	\$60.00	
430-11-426	18" Reinforced Concrete Pipe (Class IV)		LF	\$70.00	
430-11-429	24" Reinforced Concrete Pipe (Class IV)		LF	\$82.00	
430-11-433	30" Reinforced Concrete Pipe (Class IV)		LF	\$90.00	
430-11-438	36" Reinforced Concrete Pipe (Class IV)		LF	\$98.00	
430-11-440	42" Reinforced Concrete Pipe (Class IV)		LF	\$112.00	
430-11-441	48" Reinforced Concrete Pipe (Class IV)		LF	\$132.00	
430-11-442	54" Reinforced Concrete Pipe (Class IV)		LF	\$175.00	
430-11-443	60" Reinforced Concrete Pipe (Class IV)		LF	\$205.00	
430-141-01	12" X 18" Elliptical RCP (Class IV)		LF	\$68.00	
430-141-02	14" X 23" Elliptical RCP (Class IV)		LF	\$70.00	
430-141-03	19" X 30" Elliptical RCP (Class IV)		LF	\$85.00	
430-141-04	24" X 38" Elliptical RCP (Class IV)		LF	\$98.00	
430-141-05	29" X 45" Elliptical RCP (Class IV)		LF	\$115.00	
430-141-08	34" X 53" Elliptical RCP (Class IV)		LF	\$155.00	
430-141-09	38" X 60" Elliptical RCP (Class IV)		LF	\$180.00	
430-190-143A	Relay Existing Pipe (Concrete Round) (< 30')		LF	\$50.00	
430-190-143B	Relay Existing Pipe (Concrete Round) (30' - 60')		LF	\$95.00	
430-98-223	15" Mitered End Section		EA	\$700.00	
430-98-225	18" Mitered End Section		EA	\$750.00	
430-98-229	24" Mitered End Section		EA	\$900.00	
430-98-233	30" Mitered End Section		EA	\$1,950.00	
430-98-236	36" Mitered End Section		EA	\$2,100.00	
430-98-240	42" Mitered End Section		EA	\$3,500.00	
430-98-241	48" Mitered End Section		EA	\$3,700.00	
430-98-242	54" Mitered End Section		EA	\$5,000.00	
430-98-243	60" Mitered End Section		EA	\$5,500.00	
430-98-401	12" X 18" Mitered End Section		EA	\$750.00	
430-98-402	14" X 23" Mitered End Section		EA	\$900.00	
430-98-403	19" X 30" Mitered End Section		EA	\$1,300.00	
430-98-404	24" X 38" Mitered End Section		EA	\$1,850.00	
430-98-405	29" X 45" Mitered End Section		EA	\$3,600.00	
430-98-408	34" X 53" Mitered End Section		EA	\$4,500.00	
430-98-409	38" X 60" Mitered End Section		EA	\$5,000.00	
440-1-10	Underdrain (Type I)		LF	\$40.00	
440-1-20	Underdrain (Type II)		LF	\$60.00	
514-71	Plastic Filter Fabric		SY	\$4.25	
515-1-2	Handrail (Aluminum)		LF	\$130.00	
520-1-7	Concrete Curb and Gutter (Type E)		LF	\$30.00	
520-1-10	Concrete Curb and Gutter (Type F)		LF	\$32.00	
520-3	Concrete Valley Gutter		LF	\$41.00	
520-4	Special Concrete Gutter		LF	\$40.00	
522-1	Concrete Sidewalk, 4" Thick, 3' - 5' Wide		SY	\$50.00	
522-2	Concrete Sidewalk, 6" Thick, Width Varies		SY	\$60.00	
530-1	Sand Cement Riprap (Roadway)		CY	\$400.00	
547-70-1	Riprap Fabric Formed Concrete (6" Filter Points)		SY	\$250.00	
550-2-22	Fencing, Type B (6' Height)		LF	\$40.00	
550-2-22A	Fencing, Type B (6' Height) (Vinyl Coated)		LF	\$55.00	
550-3-22	Fence Corner Post Assembly		EA	\$200.00	
570-2	Seed and Mulch (including Fertilizer)		SY	\$0.50	
575-1-1	Sodding (Bahia)		SY	\$2.50	
575-1-4	Sodding (Match Existing)	1,811	SY	\$3.25	\$5,886.11
577-70	Reworking Shoulders	1,811	SY	\$1.05	\$1,901.67
2501-1	Crack Sealing		LF	\$10.00	
2502-1	Microsurfacing (Single)		SY	\$2.25	
2502-2	Microsurfacing (Double)		SY	\$3.25	
2503	Asphalt Rejuvenation (Petroleum Based)		SY	\$1.10	
	PRICE SUBTOTAL				\$7,787.78

	\$126,175.73
	20%
	\$151,410.88

Engineer's Estimate - Public Works

Project: **Hammock Road**
 Estimator: **Ainsley**

Date: **July 5, 2018**
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 District No. **5**

Mobilization		LS X	\$	1,015.00					
Site Prep.		Sy. X	\$	1.69					
Clear & Grub	LT.	A X	\$	2,200.00	=	\$			
	Med.	A X	\$	4,850.00	=	\$			
	Hvy.	A X	\$	8,800.00	=	\$			
Embankment & Fill		Cy. X	\$	7.20					
Earth Work (Prep. For ABC)		Sy X	\$	1.47					
9" Stab. Subgrade		Sy X	\$	4.46					
12" Stab. Subgrade		Sy. X	\$	5.95					
6" Base (Primed)		Sy. X	\$	6.59					
8" Base (Primed)		Sy. X	\$	8.78					
4" Limerock (Primed)		Sy. X	\$	9.12					
6" Limerock (Primed)		Sy. X	\$	13.68					
8" Limerock (Primed)		Sy. X	\$	16.15					
10" Limerock (Primed)		Sy. X	\$	20.78					
12" Limerock (Primed)		Sy. X	\$	26.28					
Lean Mix		10# / Sy.	\$	1.08					
		20# / Sy.	\$	1.21					
Sod		Sy. X	\$	1.53					
Guard rail	1200	Lf. X	\$	18.23					21,876.00
Seed & Mulch		Sy. X	\$	1.28					
Balled Hay		Ton X	\$	118.00					
Install 15" HDPE under 10' driveway		Unit	\$	2,500.00					
Clean Culverts		Lf. X	\$	5.15					
Swales - 3:1 slopes, 2' deep with sod		Lf X	\$	27.00					
Survey & Test		LS X	\$	1.69					
Traffic Control Devices	2	LS X	\$	750.00					1,500.00
Street Signs			\$	11.81					
Striping (incl Thermal)	60	Lf. X	\$	1.67					100.20
Drainage Design @ 50%	24,500.00								24,500.00
Drainage Construction @ 50%									
Paid By Stormwater Funds									

PUBLIC WORKS SUB TOTAL = \$ 47,976.20

ADMINISTRATION 7.5% \$ 3,598.22

CONTINGENCY 20% \$ 9,595.24

PUBLIC WORKS TOTAL \$ 61,169.66

ASPHALT TOTAL \$ 151,410.88

ASPHALT AND PUBLIC WORKS TOTAL = \$ 212,580.53

Engineering, Inspection & Administration + 7.00% \$ 14,880.64

CONSTRUCTION TOTAL = \$ 227,461.17

Number of Lots = 14.00

RECORDING

Resolution	1	First page	\$	10.00			
	1	Pages	\$	8.50			8.50
Roll:	1	First page	\$	10.00			10.00
	2	pages	\$	8.50			17.00
Subtotal							
\$ 45.50							

LIEN SATISFACTION 14 Pages \$ 10.00 \$ 140.00

OVERHEAD 14 Lots X Years 10 \$ 10.00 / year \$ 1,400.00

Subtotal Lien/Overhead \$ 1,540.00

TOTAL = \$ 229,046.67

Tax Office 2% Fee Added \$ 4,581
 Project Cost \$ 233,628