Engineer's Estimate 15 16

Project: Orangewood Villas
Estimator: Phil/Fig/Ainsley
Date: January 31, 2016
PVAS No.: 3239.00
District No.: 3

	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	Bonton Dr	Y	F	20	825	1834.0	23	23	1	1	2	2	0	0		######
2	Chancery Dr	Y	F	20	1210	2689.0	25	25	1	1	2	2	0	0	######	######
3	Foothill Dr	Y	F	20	1085	2412.0	33	33	2	2	2	2	0	0	######	######
4	Grandin Street	Y	F	20	1000	2223.0	15	15	1	1	2	2	0	0	######	######
5	Longwood Ave	Y	F	26	1085	3135.0	26	26	1	1	2	2	0	0	######	######
6	Blossom Dr	Y	F	20	1085	2412.0	32	32	2	2	2	2	0	0	######	######
7	Trafford Rd	Y	F	20	1085	2412.0	31	31	2	2	2	2	0	0	######	######
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	TOTALS =				7375	17117.0	185	185	10	10	14	14	0	0	######	######

Combined Distance = 1.4 MILES	Length	Sy.- Paving	Drives	Mailboxes	Spandrels	T's	Manhole	W.Valve	Cul de Sac	Turnaround	Sidewalk Repair SY	Base Repair SY

AREA IN SY.		17117.0
Spandrels @ 30 Sy. Ea.	10	300
"T" Turn Around @ 50 Sy. Ea.	0	0
Cul-de-Sac @ 520 Sy. Ea.	0	0
Drives @ 20SY Ea. (Turnouts)	185	3700
Total Sy. Ex. Pavement =		21117 Sy.

Required Asphalt

Type	Spread (lb/sy)	tonnage	
Type S-I Asphalt Concrete Cement (ACC), Leveling		0	
Type S-III ACC, Leveling		0	
Type S-III ACC, Surface or Intermediate Course	210	2217	
Type S-I ACC, Deep Patch (4"+ 1". Incl. Shoulder Widening, Pavement Widening and Driveway Const.).		#VALUE!	As Base Restoral
Type S-I ACC, Deep Patch (4"+ 1". Incl. Shoulder Widening, Pavement Widening and Driveway Const.).		0	As Base Restoral
Type FC-3 (without rubber)		0	
Type PD-III ACC, Surface or Intermediate Course		0	

BASE REPAIR PERCENTAGE MULITPLIER	.%	
SIDEWALK PERCENTAGE MULITPLIER	0.00%	
SIDEWALK WIDTH	0	FT
SIDEWALK THICKNESS	0	IN (4" OR 6")
SHOULDER REWORK WIDTH	5	FT
SOD WIDTH	0	FT

Engineer's Estimate - Asphalt Contract

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ASPHALT ITEMS

ITEM NO.	DESCRIPTION	QTY.	UNITS	AMOUNT	AMOUNT
102-91	Temporary Pavement Markings (Paint)	738	LF	$0.19	$140.22
102-10-2	Temporary Pavement Markings (Tape)		LF	$5.50	
104-10-1	Baled Hay (Staked)		EA	$4.00	
104-11	Turbidity Barrier (Floating)		LF	$10.00	
104-13	Silt Fence (Staked)	16,963	LF	$0.80	$13,570.40
104-16	Rock Bags		EA	$3.25	
110-1-1A	Clearing and Grubbing < 6"		AC	$2,500.00	
110-1-1B	Clearing and Grubbing > 6"		AC	$7,000.00	
110-4	Removal of Existing Pavement (Concrete)		SY	$18.00	
110-47	Road Edge Preparation	14,750	LF	$0.50	$7,375.00
110-48	Sawcut Concrete Driveways		LF	$4.00	
110-49	Sawcut Asphaltic Concrete		LF	$3.25	
110-50	"Pickup" Type Power Broom	25	HR	$110.00	$2,750.00
110-7	Mailboxes (Relocation) (Furnish and Install)	185	EA	$180.00	$33,300.00
120-1	Regular Excavation		CY	$16.00	
120-2	Borrow Excavation		CY	$12.00	
120-6	Embankment		CY	$20.00	
121-70	Flowable Fill		CY	$300.00	
160-4-1	Stabilization, Type "B" (6")(LBR40)		SY	$33.00	
160-4-2	Stabilization, Type "B" (12")(LBR40)		SY	$50.00	
162-2	Topsoil		SY	$5.00	
270-1	Soil Cement Base (300 psi) (Plant-Mixed) (8")		SY	$52.00	
270-1-1	Soil Cement Base (300 psi) (Plant-Mixed) (10")		SY	$66.00	
210-2	Limerock, New Material for rework base		TN	$23.50	
270-1	Full Depth Reclamation (8" Depth)		SY	$5.00	
270-1-1	Full Depth Reclamation (10" Depth)	21,117	SY	$8.00	$168,936.00
270-1-A	Portaland Cement	211	TN	$129.00	$27,219.00
285-705-12	Base (Optional) Limerock (6")		SY	$14.00	
285-707-11	Base (Optional) Limerock (8")		SY	$15.00	
285-710-11	Base (Optional) Limerock (10")		SY	$22.00	
285A	Crushed Concrete Base		SY	$24.00	
285B	Blended Base		SY	$8.80	
286-1	Turnout Construction (Concrete)	185	SY	$53.00	$9,805.00
286-2	Turnout Construction (Asphalt)		TN	$98.00	
310-1	Single Surface Treatment		SY	$6.40	
310-2	Double Surface Treatment		SY	$7.00	
310-3	Triple Surface Treatment		SY	$7.50	
327-70-8	Milling of Existing Asphalt Pavement (2-1/2" Maximum Depth) (Various Widths)		SY	$1.70	
327-70-8A	Milling of Existing Asphalt Pavement (2-1/2" Maximum Depth) (Various Widths)		SY	$2.10	
327-70-8B	Haul and Stockpile Millings		CY-MI	$0.64	
331-1	Asphalt Price Index Adjustment	31,299	GA	$0.15	$4,694.85
331-2-1	Type S-I Asphalt Concrete Cement (ACC), Leveling		TN	$90.00	
331-2-4	Type S-III ACC, Leveling		TN	$94.00	
331-2-6	Type S-III ACC, Surface or Intermediate Course	2,217	TN	$90.00	$199,530.00
331-2-7	Type S-I ACC, Deep Patch		TN	$108.00	
331-2-8	Type ABC-3		TN	$120.00	
331-2-9	Type FC-3 (without rubber)		TN	$93.00	
334-1	Type PD-III ACC, Surface or Intermediate Course		TN	$90.00	
334-1-1	Cold In Place Recycling (3"-5")		TN	$16.00	
334-1-2	Asphalt Emusion Added		GA	$5.00	
339-1	Miscellaneous Asphalt Pavement		TN	$150.00	
400-1-2	Endwall (Class II Concrete)		CY	$500.00	
400-1-15	Class I Concrete (Miscellaneous)		CY	$425.00	
415-1	Reinforcing Steel		LB	$3.20	
425-10	Yard Drains		EA	$1,500.00	
425-1-31	Inlet (Curb Type P-1)		EA	$2,700.00	
425-1-32	Inlet (Curb Type P-2)		EA	$2,700.00	
425-1-33	Inlet (Curb Type P-3)		EA	$2,350.00	
425-1-34	Inlet (Curb Type P-4)		EA	$2,440.00	
425-1-41	Inlet (Curb Type J-1)		EA	$3,440.00	
425-1-42	Inlet (Curb Type J-2)		EA	$3,200.00	
Sub Total					$467,320.47

Engineer's Estimate - Asphalt Contract

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ITEM NO.	DESCRIPTION	QTY.	UNITS	UNIT PRICE	AMOUNT
425-1-43	Inlet (Curb Type J-3)		EA	$3,900.00	
425-1-44	Inlet (Curb Type J-4)		EA	$3,000.00	
425-1-47	Inlet (Curb Type 7)		EA	$2,800.00	
425-1-48	Inlet (Curb Type 8)		EA	$2,800.00	
425-1-52	Inlets (DT BOT Type C)		EA	$1,650.00	
425-1-54	Inlets (DT BOT Type D)		EA	$2,100.00	
425-1-55	Inlets (DT BOT Type E)		EA	$2,250.00	
425-1-58	Inlets (DT BOT Type H)		EA	$2,400.00	
425-1-71	Inlets (Gutter Type V)		EA	$2,400.00	
425-5	Adjusting Manholes (riser rings)	14	EA	$270.00	$3,780.00
425-5A	Manhole Cover (replace)		EA	$450.00	
425-6	Adjusting Valve Boxes	14	EA	$190.00	$2,660.00
430-11-423	15" Reinforced Concrete Pipe (Class IV)		LF	$40.00	
430-11-425	18" Reinforced Concrete Pipe (Class IV)		LF	$45.00	
430-11-429	24" Reinforced Concrete Pipe (Class IV)		LF	$55.00	
430-11-433	30" Reinforced Concrete Pipe (Class IV)		LF	$65.00	
430-11-438	36" Reinforced Concrete Pipe (Class IV)		LF	$75.00	
430-11-440	42" Reinforced Concrete Pipe (Class IV)		LF	$100.00	
430-11-441	48" Reinforced Concrete Pipe (Class IV)		LF	$120.00	
430-11-442	54" Reinforced Concrete Pipe (Class IV)		LF	$140.00	
430-11-443	60" Reinforced Concrete Pipe (Class IV)		LF	$170.00	
430-141-01	12" X 18" Elliptical RCP (Class IV)		LF	$50.00	
430-141-02	14" X 23" Elliptical RCP (Class IV)		LF	$50.00	
430-141-03	19" X 30" Elliptical RCP (Class IV)		LF	$60.00	
430-141-04	24" X 38" Elliptical RCP (Class IV)		LF	$75.00	
430-141-05	29" X 45" Elliptical RCP (Class IV)		LF	$100.00	
430-141-08	34" X 53" Elliptical RCP (Class IV)		LF	$120.00	
430-141-09	38" X 60" Elliptical RCP (Class IV)		LF	$140.00	
430-190-143A	Relay Existing Pipe (Concrete Round) (< 30")		LF	$55.00	
430-190-143B	Relay Existing Pipe (Concrete Round) (30" – 60")		LF	$160.00	
430-98-223	15" Mitered End Section		EA	$525.00	
430-98-225	18" Mitered End Section		EA	$560.00	
430-98-229	24" Mitered End Section		EA	$700.00	
430-98-233	30" Mitered End Section		EA	$1,450.00	
430-98-238	36" Mitered End Section		EA	$1,800.00	
430-98-240	42" Mitered End Section		EA	$2,900.00	
430-98-241	48" Mitered End Section		EA	$2,925.00	
430-98-242	54" Mitered End Section		EA	$4,300.00	
430-98-243	60" Mitered End Section		EA	$4,850.00	
430-98-401	12" X 18" Mitered End Section		EA	$600.00	
430-98-402	14" X 23" Mitered End Section		EA	$775.00	
430-98-403	19" X 30" Mitered End Section		EA	$1,050.00	
430-98-404	24" X 38" Mitered End Section		EA	$1,500.00	
430-98-405	29" X 45" Mitered End Section		EA	$3,000.00	
430-98-408	34" X 53" Mitered End Section		EA	$3,600.00	
430-98-409	38" X 60" Mitered End Section		EA	$4,000.00	
440-1-10	Underdrain (Type I)		LF	$28.00	
440-1-20	Underdrain (Type II)		LF	$55.00	
514-71	Plastic Filter Fabric		SY	$5.50	
515-1-2	Handrail (Aluminum)		LF	$85.00	
520-1-7	Concrete Curb and Gutter (Type E)		LF	$22.00	
520-1-10	Concrete Curb and Gutter (Type F)		LF	$22.00	
520-3	Concrete Valley Gutter		LF	$32.00	
520-4	Special Concrete Gutter		LF	$32.00	
522-1	Concrete Sidewalk, 4" Thick, 3' – 5' Wide		SY	$40.00	
522-2	Concrete Sidewalk, 6" Thick, Width Varies		SY	$42.00	
530-1	Sand Cement Riprap (Roadway)		CY	$290.00	
547-70-1	Riprap Fabric Formed Concrete (8" Filter Points)		SY	$215.00	
550-2-22	Fencing, Type B (6' Height)		LF	$27.00	
550-2-22A	Fencing, Type B (6'Height) (Vinyl Coated)		LF	$32.00	
550-3-22	Fence Corner Post Assembly		EA	$125.00	
570-2	Seed and Mulch (including Fertilizer)		SY	$0.45	
575-1-1	Sodding (Bahia)		SY	$2.10	
575-1-4	Sodding (Match Existing)	8,194	SY	$3.20	$26,220.80
577-70	Reworking Shoulders	8,194	SY	$0.65	$5,326.10
2501-1	Crack Sealing		LF	$3.20	
2502-1	Microsurfacing (Single)		SY	$7.50	
2502-2	Microsurfacing (Double)		SY	$9.50	
2503	Asphalt Rejuvenation (Petroeum Based)		SY	$26.00	
	PRICE SUBTOTAL				$37,986.90

Asphalt Contract SubTotal	$505,307.37
Contingency	15%
Asphalt Contract Total	$581,103.48

Engineer's Estimate - Public Works

Project: Orangewood Villas
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								AMOUNT
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		$ -
Sod (Edge)			Lf.	X	$	0.26		$ -
Seed & Mulch			Sy.	X	$	1.28		$ -
Bailed Hay			Ton	X	$	118.00		$ -
Silt Fence			Lf.	X	$	1.39		$ -
Floating Turbidity Barrier			Lf.	X	$	5.15		$ -
Final Dress (Shoulders)			Cy.	X	$	7.20		$ -
Survey & Test			LS	X	$	0.69		$ -
Traffic Control Devices		10	LS	X	$	750.00		$ 7,500.00
Guardrail			Lf.	X				$ -
Striping		737.5	Lf.	X	$	1.67		$ 1,231.63
Other								$ -
Drainage								$ -

PUBLIC WORKS SUB TOTAL = $ 8,731.63

ADMINISTRATION	7.5%	$ 654.87
CONTINGENCY	15%	$ 1,309.74
PUBLIC WORKS TOTAL		$ 10,696.24
ASPHALT TOTAL		$ 581,103.48
ASPHALT AND PUBLIC WORKS TOTAL =		$ 591,799.72
Engineering, Inspection & Administration +	7.00%	$ 41,425.98
CONSTRUCTION TOTAL =		$ 633,225.70

Number of Lots = 185.00

RECORDING						
	Resolution	1	First page	$ 10.00		$ 10.00
		1	Pages	$ 8.50		$ 8.50
	Roll:	1	First page	$ 10.00		$ 10.00
		21	pages	$ 8.50		$ 178.50
			Subtotal			$ 207.00
LIEN SATISFACTION		185	Pages	$ 10.00		$ 1,850.00
OVERHEAD		185	Lots X	Years 10	$ 10.00 / year	18500
			Subtotal		Lien/Overhead	$ 20,350.00
					TOTAL =	$ 653,782.70