

**Appendix A: *Conceptual Engineering Studies for Option A  
(Briarwood Way Option)***

Planning Cost Estimate

Planning Cost Estimate – with purchase of residential parcel

Conceptual Design for Briarwood Way Option

Planning Cost Estimate  
Option A

**Transportation Engineering**

Contra Costa County Department of Public Works

- Click here if the project schedule for this project is to be 50 days or more; also click here if this is a bridge project.
- Click here if this project is a surface treatment or overlay project.

**Project Name:** Pleasant Hill Bart Shortcut Path - Briarwood Way Option

**Project Location:** From Bancroft Road / Minert Road intersection to the Pleasant Hill BART area

**Project Length:** approximately 1850'

**Date of Estimate:** Jun. 16, 2005

Revision No.
Revision Date 7/26/07
By: Kara Schuh

**Prepared by:** Eric Hu

No.	Description	Quantity	Units	Unit Cost	Total
1	Construction Signs	4	EA	\$ 250	\$ 1,000
2	Traffic Control System	1	LS	15,000	\$ 15,000
3	Clearing and Grubbing	1	LS	30,000	\$ 30,000
5	Excavation	115	C.Y.	60	\$ 6,900
6	Earthwork	1	LS	40,000	\$ 40,000
7	Aggregate Base	770	TON	45	\$ 34,650
8	Asphalt Concrete	160	TON	140	\$ 22,400
9	Shoulder Backing	64	TON	45	\$ 2,880
10	Driveway Conforms	7	EA	2,000	\$ 14,000
11	Chain Link Fence	1,076	L.F.	45	\$ 48,420
12	Chain Link Gate ( 12 Ft )	3	EA	850	\$ 2,550
13	Wood Fence	328	L.F.	25	\$ 8,200
14	Bollard	2	EA	400	\$ 800
15	Path Gate	2	EA	300	\$ 600
16	Bridge over Walnut Creek Flood Channel	1	EA	200,000	\$ 200,000
17	Sidewalk	4,218	S.F.	15	\$ 63,270
18	Curb Ramp	2	EA	3,000	\$ 6,000
19	Retaining Wall at back of Sidewalk (9" to 18" tall)	912	S.F.	70	\$ 63,840
20	Retaining Wall	2,800	S.F.	70	\$ 196,000
21	Relocate roadside sign	7	EA	250	\$ 1,750
22	Relocate Mailbox	6	EA	250	\$ 1,500
23	Landscape modifications	1	LS	14,000	\$ 14,000
24	Path Lighting	7	EA	6,533	\$ 45,731
25	Stop signs	2	EA	250	\$ 500
26	Thermoplastic Striping - 12" white	350	L.F.	3	\$ 1,050
27	Signal Modification	1	LS	50,000	\$ 50,000

OTHER COSTS:	Preliminary Engineering (15%)	\$130,656	SUBTOTAL	\$ 871,041
	Construction Engineering	\$130,656	OTHER COSTS	\$624,424
	RW Engineering	\$45,000	SUBTOTAL	\$1,495,465
	Real Property	\$100,000	CONTINGENCY*	\$150,255
	R/W Acquisition	\$31,008	TOTAL	\$1,645,720
	Mobilization	\$87,104		
	Utility Coordination	\$50,000		
	Environmental (NEPA) (Cost may be higher or lower)	\$50,000		
	Total OTHER COSTS	\$624,424		

➤ **ROUNDED TOTAL \$1,646,000**

\* CONTINGENCY is 15% of (SUBTOTAL plus Construction Engineering)

For Replacement of existing Decomposed Granite Path South of the proposed shortcut path add at minimum: \$131,000

\*\*This alignment requires retaining walls be constructed very close to the Walnut Creek Channel walls. This cost estimate assumes the Army Corp of Engineers would allow locating this walls as proposed as not require purchase of private property to construct the trail along the channel.

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**Planning Cost Estimate  
Option A with House**

**Transportation Engineering**

Contra Costa County Department of Public Works

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**Project Location:** From Bancroft Road / Minert Road intersection to the Pleasant Hill BART area

**Project Length:** approximately 1850'

**Date of Estimate:** Jun. 16, 2005

Revision No.	1
Revision Date	12/12/07
By:	Kara Schuh

**Prepared by:** Eric Hu

No.	Description	Quantity	Units	Unit Cost	Total
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3	Clearing and Grubbing	1	LS	30,000	\$ 30,000
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	RW Engineering	\$45,000	SUBTOTAL	\$2,495,465
	Real Property	\$100,000	CONTINGENCY**	\$150,255
	R/W Acquisition	\$1,031,008	TOTAL	\$2,645,720
	Mobilization	\$87,104	SURPLUS ROW**	(\$500,000)
	Utility Coordination	\$50,000	TOTAL NET COST	\$2,145,720
	Environmental (NEPA) (Cost may be higher or lower)	\$50,000		
	Total OTHER COSTS	\$1,624,424		

➤ **ROUNDED TOTAL \$2,146,000**

\* CONTINGENCY is 15% of (SUBTOTAL plus Construction Engineering)

For replacement of existing decomposed granite path south of the proposed Shortcut Path, add at minimum \$131,000.

\*\*\*This alignment requires retaining walls be constructed very close to the Walnut Creek Channel walls. The Army Corp of Engineers is likely to disallow such a structure in which case one of the homes would need to be acquired to move forward with this alignment. Such an acquisition would increase costs at least by \$1 million although probably more. \$1 million has been added to the RW Acquisition costs as a rough estimate to represent this scenario although costs may be higher. The trail requires only a portion of the yard of the home, which could be sold after construction of the trail and the revenue used to offset construction costs.

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CONTRA COSTA COUNTY  
PUBLIC WORKS DEPARTMENT  
MARTINEZ CALIFORNIA

Pleasant Hill BART Shortcut Path  
Briarwood Way Option

SCALE \_\_\_\_\_  
DRAWN BY KS  
CHECKED BY \_\_\_\_\_

DATE 1-8-08  
FILE NO. \_\_\_\_\_