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<b>SCHUYLKILL RIVER TRAIL / FREEDOM TRAIL</b>									
Berks County, Pennsylvania									
<b>PRELIMINARY OPINION OF PROBABLE COST - BY PHASE OF TRAIL DEVELOPMENT - Initial Traffic Volume and Rural Options</b>									
Prep'd by Campbell Thomas & Co - 1504 South Street - Philadelphia PA 19146-1636 - Tel:215-545-1076 - Fax 215-545-8397									
Revision Date: <b>January 18, 2007</b>									
Reach of Trail	Work Elements	Quantity	Units	Quantity	Units	Cost/Unit	Extension	TOTALS	Comments
<b>Recommended Phase I Development</b>									
SRT Hamburg to Five Locks	Upgrade existing connection from Sch. Riv. Bridge to State Street	0.08	MI	400	LF	150,000	11,364		
	On-road route through Borough of Hamburg	1.08	MI	5700	LF	5,000	5,398		
Freedom Trail Berkley Rd to Lk Ontelaunee	New trail bed connects to Five Locks from Route 61	1.40	MI	7400	LF	350,000	490,530		
	New trail connects to Berkley Road with RR Crossing	0.27	MI	1400	LF	400,000	106,061		
	Existing trail along Maiden Creek to be upgraded	1.31	MI	6900	LF	100,000	130,682		\$301,136
Temp Signage - On-road and directional	Existing Bowers Road to have surface improved	0.64	MI	3400	LF	100,000	64,394		
	SRT/FT signage for temporary on-road segments	1.00	LS	1	LF	40,000	40,000		
		4.77					<i>Subtotal</i>	\$848,428	
<b>Recommended Phase II Development</b>									
SRT Five Locks to Shoemakersville	Existing towpath to be upgraded Five Locks to farm road	2.48	MI	13100	LF	250,000	620,265		
	Farm road to have surface improved	0.57	MI	3000	LF	100,000	56,818		
	On-road route through Borough of Shoemakersville	0.42	MI	2200	LF	5,000	2,083		
Temporary SRT on FT Basin to 183	Trail Head improvements at Stilling Basin	1.00	LS	1	LS	50,000	50,000		\$50,000
	Existing trail Stilling Basin to Palisades Drive to have surface improved	0.28	MI	1500	LF	50,000	14,205		
	New trail bed across County lands	0.76	MI	4000	LF	350,000	265,152		
	New bridge across Plum Creek	1.00	LS	1	LS	500,000	500,000		
	Existing trail across Fairgrounds to be widened and upgraded	0.38	MI	2000	LF	400,000	151,515		
Freedom Trail Berkley Rd	Trail head improvements at Fairgrounds	1.00	LS	1	LS	250,000	250,000		\$250,000
	New trail bed adjacent to County Road to Rte 183	0.76	MI	4000	LF	350,000	265,152		
	Trail on Berkley Road and footpath	0.85	MI	4500	LF	100,000	85,227		\$85,227
Temp Signage - On-road and directional	SRT/FT signage/stripping for temporary on-road segments	1.00	LS	1	LF	50,000	50,000		
		6.50					<i>Subtotal</i>	\$2,310,417	

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Reach of Trail	Work Elements	Quantity	Units	Quantity	Units	Cost/Unit	Extension	TOTALS	Comments
<b>Recommended Phase III Development</b>									
SRT in Hamburg	New trail bed on old canal alignment from State St to Route 61 underpass	0.80	MI	4200	LF	350,000	278,409		
	New trail bed on restored towpath Shoemakersville to Leesport	3.30	MI	17400	LF	350,000	1,153,409		
SRT Shoemakersville to Stoudt's Fy Bridge	On-road route through Borough of Leesport	0.66	MI	3500	LF	5,000	3,314		
	Existing trail to be upgraded south of Leesport to Herbine's Lock	0.61	MI	3200	LF	200,000	121,212		
	New trail bed on former towpath to Cross Keys Bridge	1.80	MI	9500	LF	350,000	629,735		
	New trail bed on restored towpath Cross Keys to Peacock Bridge	0.38	MI	2000	LF	350,000	132,576		
	Existing farm road surface to be improved	0.32	MI	1700	LF	250,000	80,492		
	New trail bed across farm	0.57	MI	3000	LF	350,000	198,864		
Temporary SRT on FT Rt 183 to Stoudt's Fy	Improve existing access road surface in impounding basin	0.80	MI	4200	LF	350,000	278,409		
	Bridge over Route 183	1.00	LS	1	LS	1,750,000	1,750,000		Des 500,000 / Constr 1,250,0
	New trail bed Rte 183 to Leimbach's	0.76	MI	4000	LF	350,000	265,152		
	Existing trails over hills to be upgraded	0.95	MI	5000	LF	400,000	378,788		
FT from Cross Keys to Berkley Rd.	Trail designated on McCoy Road	0.53	MI	2800	LF	5,000	2,652		
	Existing farm roads to be upgraded at Ontelaunee Orchards	0.61	MI	3200	LF	100,000	60,606		
	New trail bed adjacent to West Leesport and Rickenbach Roads	0.45	MI	2400	LF	350,000	159,091		
	New Trail connects to from Cross Keys Bridge to Riverside Dr	0.05	MI	1600	LF	350,000	17,500		\$47,803
	Riverside Drive, existing road to have surface improved	0.30	MI	1600	LF	100,000	30,303		
SRT in Muhlenberg Township	New trail bed connects to gravel park road	0.09	MI	500	LF	350,000	33,144		
	Existing park road surface to be improved	0.63	MI	3300	LF	100,000	62,500		
	New trail bed to Riverview Drive Road for sidepath	0.21	MI	1100	LF	350,000	72,917		
	On-road route shares Riverview Drive	0.83	MI	4400	LF	5,000	4,167		
	Existing trail from Riverview Drive to Frit'z Lock to be upgraded	0.45	MI	2400	LF	350,000	159,091		
Remove/Revise Temporary On-Road Signage	New trail bed adjacent to River Road to Leicz's Bridge	1.14	MI	6000	LF	350,000	397,727		
	New trail bed adjacent to River Road Leicz's Bridge to Rte 61	1.89	MI	10000	LF	350,000	662,879		
	Remove signs, or revise signs to serve for connecting routes	1.00	LS	1	LF	15,000	15,000		
		18.12						\$6,947,936	
<b>Recommended Phase IV Development</b>									
Complete SRT River Alignment	Trail on Stoudt's Ferry Bridge Road	0.19	MI	1000	LF	5,000	947		
	Upgrade Stoudt's Ferry Bridge Road	0.25	MI	4201	LF	100,000	25,000		
	Rebuild Stoudt's Ferry Bridge	1.00	LS	1	LS	1,500,000	1,500,000		Des 500,000 / Constr 1,000,0
	Bridge over Schuylkill River at Route 12	1.00	LS	1	LS	1,300,000	1,300,000		Des 400,000 / Constr 900,000
	New trail bed through Carpenter Technology to Schuylkill Ave. Bridge	1.06	MI	5600	LF	350,000	371,212		
	Schuylkill Avenue Bridge improvements	1.00	LS	1	LS	75,000	75,000		
Berks Penn State Spur	Existing trail to be upgraded from Baer Park to Penn Street	1.33	MI	7000	LF	350,000	464,015		
	Trail on existing campus pedestrian network	0.30	MI	1600	LF	5,000	1,515		
	Safety improvements at street crossing	1.00	LS	1	LS	25,000	25,000		
	Trail on existing Griggs Mill Park path network	0.23	MI	1200	L:F	50,000	11,364		
	Trail Lighting	1.00	LS	1	LS	250,000	250,000		
	New trail bed adjacent to estate road	0.76	MI	4000	LF	350,000	265,152		
	New trail bed follows spur road to Rte 183	0.42	MI	2200	LF	350,000	145,833		\$3,075,758
	North crossing Rte 183 at Energy Associates	1.00	LS	1	LS	250,000	250,000		
	South crossing 183 at Aviation Road	1.00	LS	1	LS	250,000	250,000		
	New trail bed adjacent to Aviation Road	0.95	MI	5000	LF	350,000	331,439		
	Existing road to Leicz's Bridge to be upgraded	0.11	MI	600	LF	400,000	45,455		
	Reconstruction of Leicz's Bridge	1.00	LS	1	LS	1,500,000	1,500,000		Des 500,000 / Constr 1,000,0
		6.59					Subtotal	\$6,811,932	
							<b>TOTAL</b>	<b>\$16,918,712</b>	
GENERAL NOTES:									
1. Costs are estimated for construction only. Any right-of-way and/or easement acquisition costs are additional.									
2. Environmental remediation costs are additional.									
3. <i>Italicised</i> costs in totals column are items not any part part of SRT									

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Revision Date: January 18, 2007									
Reach of Trail	Work Elements	Quantity	Units	Quantity	Units	Cost/Unit	Extension	TOTALS	
<b>SRT-Base Work -Hamburg to Cross Keys - PED/BIKE STANDARD</b>									
	Widen & upgrade existing connection from bridge	0.08	MI	400	LF	150,000	11,364		
	On-road route through Borough of Hamburg	1.08	MI	5700	LF	5,000	5,398		
	New trail bed on old canal alignment from State St to Route 61 underpass	0.80	MI	4200	LF	350,000	278,409		
	New trail bed connects to Five Locks from Route 61	1.40	MI	7400	LF	350,000	490,530		
	Existing towpath to be upgraded Five Locks to farm road	2.48	MI	13100	LF	250,000	620,265		
	Farm road to have surface improved	0.57	MI	3000	LF	100,000	56,818		
	On-road route through Borough of Shoemakersville	0.42	MI	2200	LF	5,000	2,083		
	New trail bed on restored towpath Shoemakersville to Leesport	3.30	MI	17400	LF	350,000	1,153,409		
	On-road route through Borough of Leesport	0.66	MI	3500	LF	5,000	3,314		
	Existing trail to be widened and upgraded south of Leesport to Herbine's Lock	0.61	MI	3200	LF	200,000	121,212		
	New trail bed on former towpath to Cross keys Bridge	1.80	MI	9500	LF	350,000	629,735		
		13.18						Subtotal	\$3,372,538
<b>SRT-Base Work From Cross Keys to Stoudt's Ferry Bridge- CARRIAGE STANDARD</b>									
	New trail bed on restored towpath Cross Key's to Peacock Bridge	0.38	MI	2000	LF	350,000	132,576		
	Existing farm road surface to be improved	0.32	MI	1700	LF	100,000	32,197		
	New trail bed across farm	0.57	MI	3000	LF	300,000	170,455		
	Improve existing access road surface in impounding basin	0.80	MI	4200	LF	100,000	79,545		
	Upgrade Stoudt's Ferry Bridge Road	0.25	MI	4201	LF	100,000	25,000		
	Rebuild Stoudt's Ferry Bridge	1.00	LS	1	LS	1,500,000	1,500,000		
									\$1,939,773
<b>SRT-Base Work from Stoudt's Ferry Bridge to Penn Street, Reading- CARRIAGE STANDARD</b>									
	Trail on Stoudt's Ferry Bridge Road	0.19	MI	1000	LF	5,000	947		
	New trail bed connects to gravel park road	0.09	MI	500	LF	350,000	33,144		
	Existing park road surface to be improved	0.63	MI	3300	LF	100,000	62,500		
	New trail bed to Riverview Drive Road for sidepath	0.21	MI	1100	LF	350,000	72,917		
	On-road route shares Riverview Drive	0.83	MI	4400	LF	5,000	4,167		
	Existing trail from Riverview Drive to Fritz Lock to be widened and upgraded	0.45	MI	2400	LF	350,000	159,091		
	New trail bed adjacent to River Road to Leicz's Bridge	1.14	MI	6000	LF	350,000	397,727		
	New trail bed adjacent to River Road Leicz's Bridge to Rte 61	1.89	MI	10000	LF	350,000	662,879		
	Bridge over Schuylkill River at Route 12	1.00	LS	1	LS	1,300,000	1,300,000		
	New trail bed through Carpenter Technology to Schuylkill Ave. Bridge	1.06	MI	5600	LF	350,000	371,212		
	Schuylkill Avenue Bridge improvements	1.00	LS	1	LS	75,000	75,000		
	Existing trail to be upgraded from Baer Park to Penn Street	1.33	MI	7000	LF	350,000	464,015		
								Subtotal	\$3,603,598

Reach of Trail	Work Elements	Quantity	Units	Quantity	Units	Cost/Unit	Extension	TOTALS
<b>Freedom Trail Base Work From Blue Marsh Lake to SRT connection- CARRIAGE STANDARD</b>								
	Trail Head improvements at Stilling Basin	1.00	LS	1	LS	50,000	50,000	
	Existing trail stilling basin to Palisades Drive to have surface improved	0.28	MI	1500	LF	50,000	14,205	
	New trail bed across County lands	0.76	MI	4000	LF	350,000	265,152	
	Existing trail across Fairgrounds to be widened and upgraded	0.38	MI	2000	LF	400,000	151,515	
	Trail head improvements at Fairgrounds	1.00	LS	1	LS	250,000	250,000	
	New trail bed adjacent to County Road to Rte 183	0.76	MI	4000	LF	350,000	265,152	
	Bridge over Route 183	1.00	LS	1	LS	1,750,000	1,750,000	
	New trail bed Rte 183 to Leimbach's	0.76	MI	4000	LF	350,000	265,152	
	Existing trails over hills to be upgraded	0.95	MI	5000	LF	400,000	378,788	
	Trail designated on McCoy Road	0.53	MI	2800	LF	5,000	2,652	
	Existing farm roads to be upgraded at Ontelaunee Orchards	0.61	MI	3200	LF	100,000	60,606	
	New trail bed adjacent to West Leesport and Rickenbach Roads	0.45	MI	2400	LF	350,000	159,091	
							<i>Subtotal</i>	<b>\$3,562,311</b>
<b>Freedom Trail Base Work Cross Keys Bridge to Lake Ontelaunee- CARRIAGE STANDARD</b>								
	New Trail connects to from Cross Keys Bridge to Riverside Dr	0.05	MI	1600	LF	350,000	17,500	
	Riverside Drive, existing road to have surface improved	0.30	MI	1600	LF	100,000	30,303	
	New trail connects to Berkley Road with RR Crossing	0.27	MI	1400	LF	400,000	106,061	
	Trail on Berkley Road and footpath	0.85	MI	4500	LF	100,000	85,227	
	Existing trail along Maiden Creek to be widened and upgraded	1.31	MI	6900	LF	100,000	130,682	
	Existing Bowers Road to have surface improved	0.64	MI	3400	LF	100,000	64,394	
							<i>Subtotal</i>	<b>\$434,167</b>
							<b>TOTAL</b>	<b>\$12,912,386</b>
	GENERAL NOTES:							
	1. Costs are estimated for construction only. Any right-of-way and/or easement acquisition costs are additional.							
	2. Environmental remediation costs are additional.							
<b>Berks Penn State Spur-Base Work - PED-BIKE STANDARD</b>								
	Trail on existing campus pedestrian network	0.30	MI	1600	LF	5,000	1,515	
	Safety improvements at street crossing	1.00	LS	1	LS	25,000	25,000	
	Trail on existing Griggs Mill Park path network	0.23	MI	1200	LF	50,000	11,364	
	Trail Lighting	1.00	LS	1	LS	250,000	250,000	
	New trail bed adjacent to estate road	0.76	MI	4000	LF	350,000	265,152	
	New trail bed follows spur road to Rte 183	0.42	MI	2200	LF	350,000	145,833	
	North crossing Rte 183 at Energy Associates	1.00	LS	1	LS	250,000	250,000	
	South crossing 183 at Aviation Road	1.00	LS	1	LS	250,000	250,000	
	New trail bed adjacent to Aviation Road	0.95	MI	5000	LF	350,000	331,439	
	Existing road to Leicz's Bridge to be widened/ upgraded	0.11	MI	600	LF	400,000	45,455	
	Reconstruction of Leicz's Bridge	1.00	LS	1	LS	1,500,000	1,500,000	
							<i>Subtotal</i>	<b>\$3,075,758</b>
							<b>GRAND TOTAL</b>	<b>\$15,988,144</b>