vhb	tations	Drojoct	Intervale Pee	d Rike/Pod	Droject #1 57000 00
		-	Intervale Roa Burlington, V		Project #: <u>57998.00</u> Sheet:
		Calculated by:		•	Date: 4/11/18
		Checked by:			 Date:
		-		ost Estimate Calcul	ations
	Concept	ual Cost Estim	ates: Unit C	osts	
Estimated 10-ft Shared Use Pa	th Costs (Bitun	ninous Concre	te)		
	Total Cost	Basic Cost	Cost Unit		
10' Shared Use Path Uncurbed	\$197	\$69	Feet		
* Source: Report on Shared-Use Path and S	idewalk Unit Costs. \	Trans Bicycle and P	edestrian Progra	am. August 2014)	
		Unit Cost:	\$197	per foot	
Fatimated 10 ft Shared Lice De	th Costs (Bitur				
Estimated 10-ft Shared Use Pa	In Cosis (Bilun	ninous concre	lej		
	Total Cost	Basic Cost	Cost Unit		
10' Shared Use Path Curbed	\$247	\$119	Feet		
* Source: Report on Shared-Use Path and S	idewalk Unit Costs. \	/Trans Bicycle and P	edestrian Progra	am. August 2014)	
		Unit Cost:	\$247	per foot	
Estimated 10-ft Shared Use Pat	in Costs (Aggre	gate Material))		
	Total Cost	Basic Cost	Cost Unit		
	\$169	\$59	Feet		
10' Unpaved Shared Use Path * Source: Report on Shared-Use Path and S		•		am. August 2014)	
		•	edestrian Progra	am. August 2014) per foot	
* Source: Report on Shared-Use Path and Si	idewalk Unit Costs. \	/Trans Bicycle and P	edestrian Progra		
	idewalk Unit Costs. V	Trans Bicycle and P Unit Cost:	edestrian Progra		
* Source: Report on Shared-Use Path and Si Estimated Striped Crosswalk Co	idewalk Unit Costs. V Dost Est. Cost	Trans Bicycle and P Unit Cost: Cost Unit	edestrian Progra		
* Source: Report on Shared-Use Path and Si Estimated Striped Crosswalk Co Striped Crosswalk	idewalk Unit Costs. V Dost Est. Cost \$340	Trans Bicycle and P Unit Cost: Cost Unit Each	edestrian Progra \$169	per foot	
* Source: Report on Shared-Use Path and Si	idewalk Unit Costs. V Dost Est. Cost \$340	Trans Bicycle and P Unit Cost: Cost Unit Each	edestrian Progra \$169	per foot	

vhb		Project:	Bike/Ped Project #: 57998.00	
••••		Location:		
		Calculated by:	Date: 4/11/18	
		Checked by:	Date:	
		Title:	Conceptual Co	ost Estimate Calculations
	Concept	ual Cost Estima	tes: Unit Co	osts
Estimated Railroad Crossing Reco	nstruction C	ost		
	Est. Cost	Cost Unit		
Railroad Crossing	\$70,000	Each		
* Source: VTrans Bid History				
		Unit Cost:	\$70,000	Each
Estimated Roadway Reconstruction	on Cost			
	Est. Cost	Cost Unit		
Roadway Reconstruction (Mill an	\$65	Feet		
* Source: Research of previous projects				
		Unit Cost:	\$65	per foot
Roadway Widening				
Roadway Widening				
Roadway Widening	Est. Cost	Cost Unit		
Pavement Widening	\$28	Feet	destrian Prograi	n. August 2014)
Pavement Widening	\$28	Feet Trans Bicycle and Pe		
Roadway Widening Pavement Widening * Source: Report on Shared-Use Path and Sidev	\$28	Feet	destrian Progran \$28	n. August 2014) per foot per 4 foot width
Pavement Widening	\$28	Feet Trans Bicycle and Pe		
Pavement Widening * Source: Report on Shared-Use Path and Sidev	\$28 valk Unit Costs. V	Feet Trans Bicycle and Pe Unit Cost:		
Pavement Widening * Source: Report on Shared-Use Path and Sidev Landscaping	\$28 valk Unit Costs. V Est. Cost	Feet Trans Bicycle and Pe Unit Cost: Cost Unit		
Pavement Widening * Source: Report on Shared-Use Path and Sidev	\$28 valk Unit Costs. V	Feet Trans Bicycle and Pe Unit Cost:		
Pavement Widening * Source: Report on Shared-Use Path and Sidev Landscaping Landscaping (lights, plantings etc	\$28 valk Unit Costs. V Est. Cost	Feet Trans Bicycle and Pe Unit Cost: Cost Unit		

Computations

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Project:	Intervale Road Bike/Ped	Project #
Location:	Burlington, VT	Sheet:
Calculated by:	ELQ	Date
Checked by:		Date:

oject #: 57998.00

te: 4/11/18

Date:

Title: Conceptual Cost Estimate Calculations

Conceptual Cost Estimates

Alternative 1 - Widened Shoulder and Pavement Markings

	-					
Design Element	Unit Cost	Quantity	Total Cost			
Pavement Widening	\$28	1500	\$42,614			
Striped Crosswalk	\$340	2	\$680			
SUBTOTAL			\$43,294			
25% Contingency			\$10,823			
15% Mobilization and Traffic Control			\$6,494			
15% Engineering and Design			\$6,494			
10% Resident Engineer			\$4,329			
		SUBTOTAL	\$71,435			
		Rounding	\$8,566			
		TOTAL	\$80,000			
Alternative 2 - Shared Use Path Striped Buffer						
Design Element	Unit Cost	Quantity	Total Cost			
10' Shared Use Path Uncurbed	\$197	1500	\$295,500			
Roadway Reconstruction (Mill and Fill) \$65	1500	\$97,500			
	4		+			

\$70,000 \$70,000 **Railroad Crossing** 1 \$340 Striped Crosswalk 2 \$680 SUBTOTAL \$463,680 25% Contingency \$115,920 15% Mobilization and Traffic Control \$69,552 15% Engineering and Design \$69,552 10% Resident Engineer \$46,368 SUBTOTAL \$765,072 \$4,928 Rounding

TOTAL \$770,000

Computations Project: Intervale Road Bike/Ped Project #: 57998.00 Location: Burlington, VT Sheet: Calculated by: ELQ Date: 4/11/18 Checked by: Date: **Title: Conceptual Cost Estimate Calculations Conceptual Cost Estimates** Alternative 3 - Shared Use Path with Curbed Buffer and Bike Lane **Design Element** Unit Cost Quantity **Total Cost** 10' Shared Use Path Curbed \$247 1500 \$370,500 Roadway Reconstruction (Mill and Fill) \$66 1500 \$99,450 **Railroad Crossing** \$70,000 1 \$70,000 Striped Crosswalk \$340 2 \$680 Landscaping (lights, plantings etc.) \$200 1000 \$200,000 \$740,630 SUBTOTAL 25% Contingency \$185,158 15% Mobilization and Traffic Control \$111,095 \$111,095 15% Engineering and Design 10% Resident Engineer \$74,063 SUBTOTAL \$1,222,040

TOTAL \$1,230,000

\$7,961

Rounding