



CONNECTED COMMUNITIES: TRAILS MASTER PLAN

**APPENDIX VIII**  
**CONNECTED**  
**COMMUNITIES COST**  
**ESTIMATE**

SUMMARY		
TOTAL MILES	551	
TOTAL FEET	2,909,280	
PHASE	COST/FT	TOTAL COST
PHASE 1: PLANNING	-	\$464,999.50
PHASE 2: ENVIRONMENTAL REVIEW	\$1.49	\$4,326,580.57
PHASE 3: CONSTRUCTION	\$12.93	\$37,624,444.49
PHASE 4:ANNUAL MAINTAINANCE	\$0.70	\$2,037,870.26
SUBTOTAL	\$15.12	\$44,453,894.81
INDIRECT (15%)	\$2.27	\$6,668,084.22
<b>TOTAL</b>	<b>\$17.39</b>	<b>\$51,121,979.03</b>

## CONNECTED COMMUNITIES INDENIFIED ROUTE COST ESTIMATES

PHASE 1: PLANNING		
Project Management	\$78,884.50	Based on costs to project manage this Connected Communities Trails Master Plan Project
Outreach and Agreements	\$94,837.50	Based on costs to project manage this Connected Communities Trails Master Plan Project
Surveys and Reports	\$12,825.00	Based on costs to project manage this Connected Communities Trails Master Plan Project
GIS Mapping, Ground Truthing	\$148,125.00	Based on costs to project manage this Connected Communities Trails Master Plan Project
Trails Master Plan	\$94,275.00	Based on costs to project manage this Connected Communities Trails Master Plan Project
Administrative Costs (15%)	\$36,052.50	Based on costs to project manage this Connected Communities Trails Master Plan Project
<b>COST OF PHASE 1</b>	<b>\$464,999.50</b>	
PHASE 2: ENVIRONMENTAL REVIEW		
2.1 Groundtruthing		NARRATIVE
Crew Cost / Day	\$778.05	Based on 2 crew members wages with burden rates working 10 hour/day.
Transportation Costs / Day	\$65.50	Based on average trip mileage for 1 field season and 2023 IRS Mileage Rate
Per Diem Food	\$108.00	<a href="#">Per diem and lodging rates determined by the US General Services Administration</a>
Per Diem Lodging	\$214.00	<a href="#">Per diem and lodging rates determined by the US General Services Administration</a>
Total Cost/Day	\$1,165.55	
Average feet covered in a day	7920	Based on average feet groundtruthed with 2 crew member team for one season
Total Cost/Feet for 2.1 Groundtruthing	\$0.15	
2.2 Permitting (NEPA/CEQA)		
Cost/Foot for EA/MND level permitting	\$1.34	Based on average from several quotes from NEPA/CEQA Contractors
Total Cost / Feet for 2.2 Permitting	\$1.34	
<b>COST/FOOT FOR PHASE 2</b>	<b>\$1.49</b>	
<b>COST OF PHASE 2</b>	<b>\$4,326,580.57</b>	
PHASE 3: CONSTRUCTION		
3.1 Trail Construction		
Project Management Costs / Day	\$820.26	Based on previous SBTS project management costs for a 8 hour day
Trail Crew Costs / Day	\$1,976.96	Based on 3 crew members, 1 crew lead and trail boss wages with burden rate for a 10 hour day
Equipment Costs / Day	\$258.75	Based on SBTS previous project averages of tool and equipment costs for trail construction
Transportation Costs / Day	\$196.50	Based on SBTS an average 300 miles of travel a day ( 2 vehicles and 2 trips)
Total Cost/ Day	\$3,382.91	
Average feet constructed in a day	350	Based on average trail constructed with 3 crew members, 1 crew lead and a trail boss over multiple seasons
Total Cost / Feet	\$9.67	
<b>TOTAL COST OF TRAIL CONSTRUCTION</b>	<b>\$28,119,479.60</b>	
3.2 Infrastructure Needs		
Estimated Bridges (50)	\$2,500,000.00	Based on estimate of 50 bridges needed, with quotes from contractors
Trailhead Signage (21)	\$7,004,964.89	Based on 21 trail head needs and trailhead estimates.
<b>TOTAL INFRASTRUCTURE</b>	<b>\$9,504,964.89</b>	
Total Cost / Foot for 3.2 Infrastructure	\$3.27	
<b>COST/FOOT PHASE 3</b>	<b>\$12.93</b>	
<b>COST OF PHASE 3</b>	<b>\$37,624,444.49</b>	
PHASE 4: MAINTAINANCE		
Project Management Costs / Day	\$820.26	Based on previous SBTS project management costs for a 8 hour day
Trail Crew Costs / Day	1976.96	Based on 3 crew members, 1 crew lead and trail boss wages with burden rate for a 10 hour day
Equipment Costs / Day	150	Based on SBTS previous project averages of tool and equipment costs for trail maintainance
Transportation Costs / Day	\$196.50	Based on SBTS an average 300 miles of travel a day ( 2 vehicles and 2 trips)
Total Costs / Day	\$3,143.72	
Average Feet maintained in a day	4488	Based on average trail maintained with 3 crew members, 1 crew lead and a trail boss over multiple seasons
Total Cost / Foot	\$0.70	
<b>COST/FOOT PHASE 4</b>	<b>\$0.70</b>	
<b>COST OF PHASE 4</b>	<b>\$2,037,870.26</b>	

## RECREATION ZONES COST ESTIMATES

COSTS FOR RECREATION ZONES USING CCIR ESTIMATES						
	Miles	Feet	Environmental	\$12.76/ft)	Maintenance Cost	Totals
Stover Mountain Recreation Zone	17	89,760	\$133,487.97	\$1,145,337.60	\$62,874.40	\$1,341,699.97
Butt Lake Recreation Zone	28	147,840	\$219,862.53	\$1,886,438.40	\$103,557.84	\$2,209,858.77
Round Valley Recreation Zone	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Lake Davis Recreation Zone	52	274,560	\$408,316.13	\$3,503,385.60	\$192,321.69	\$4,104,023.43
Beckwourth Peak Recreation Zone	34	179,520	\$266,975.93	\$2,290,675.20	\$125,748.80	\$2,683,399.93
Mohawk Valley Recreation Zone	22	116,160	\$172,749.13	\$1,482,201.60	\$81,366.87	\$1,736,317.60
Frenchman Recreation Zone	63	332,640	\$494,690.70	\$4,244,486.40	\$233,005.13	\$4,972,182.23
Sierra Valley Recreation Zone	97	512,160	\$761,666.63	\$6,535,161.60	\$358,753.93	\$7,655,582.16
<b>COST OF PHASE 2 - REC ZONES</b>	<b>313</b>	<b>1,652,640</b>	<b>\$2,457,749.03</b>	<b>\$21,087,686.40</b>	<b>\$1,157,628.66</b>	<b>#####</b>