

**Crossing Trails Proposed Destination Resort  
Preliminary Construction Cost Estimate  
June 2009**

**PHASE 3**

**Narrative: The following preliminary quantities and cost estimates are based upon conceptual layouts by WHPacific and the design team and are subject to change with design and regulatory agency reviews and approvals. Cost estimates are presented for general feasibility and should be updated and confirmed as more information becomes available. This estimate assumes construction during an average groundwater year.**

ITEM	DESCRIPTION	EST. QUANT.	UNIT	UNIT PRICE	TOTAL
	Clearing and grubbing including disposal for roadway construction. 7,600 LF of road.	7	Acres	<u>\$5,000.00</u>	<u>\$35,000.00</u>
	Clean up ladder fuels and downed trees utilizing low impact construction equipment.	0	Acres	<u>\$1,500.00</u>	<u>\$0.00</u>
	Clearing and grubbing including disposal for pathway construction. Includes paths along all roads and interconnecting paths.	1	Acre	<u>\$5,000.00</u>	<u>\$5,000.00</u>
	Furnish and apply construction water.	1	LS	<u>\$1,200.00</u>	<u>\$1,200.00</u>
	Unclassified excavation and embankment for roadways, including subgrade preparation.(1.5ft of cut/fill over 7,600 l.f.)	6,200	CY	<u>\$12.00</u>	<u>\$74,400.00</u>
	Unclassified excavation and embankment for bike paths, including subgrade preparation.	1,400	CY	<u>\$16.00</u>	<u>\$22,400.00</u>
<b>STREET SUBGRADE CONSTRUCTION SUBTOTAL:</b>					<b><u><u>\$138,000</u></u></b>
	Franchise cable utility trench excavation, bedding, and backfill.	7,600	LF	<u>\$10.00</u>	<u>\$76,000.00</u>
	Furnish materials and install 2" electrical conduit.	15,200	LF	<u>\$2.00</u>	<u>\$30,400.00</u>
	Furnish materials and install 3" electrical conduit.	15,200	LF	<u>\$4.00</u>	<u>\$60,800.00</u>
	Furnish materials and install 4" electrical conduit.	7,600	LF	<u>\$6.00</u>	<u>\$45,600.00</u>
	Furnish materials and install 6" electrical conduit.	500	LF	<u>\$8.00</u>	<u>\$4,000.00</u>
	Furnish materials and install electrical vaults.	18	EA	<u>\$7,000.00</u>	<u>\$126,000.00</u>
	Furnish and install natural gas piping.	7,600	LF	<u>\$6.00</u>	<u>\$45,600.00</u>
	Furnish materials and install phone and comm vaults	18	EA	<u>\$4,000.00</u>	<u>\$72,000.00</u>
<b>CABLE UTILITY AND GAS ESTIMATED SUBTOTAL:</b>					<b><u><u>\$388,400</u></u></b>

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Furnish and install 2, 3, and 4" pressure sewer mains, including trench excavation, bedding and backfill.	7,600	LF	<u>\$35.00</u>	<u>\$266,000.00</u>
Furnish materials and construct standard sewage lift stations, including excavation, wet well, pumps, controls, valves, piping, and appurtenances, complete.	1	EA	<u>\$125,000.00</u>	<u>\$125,000.00</u>
Furnish materials and install 4" gravity sewer service including tee trench excavation, bedding, and backfill. (0 to 10 foot depth) Include cleanout and vault.	3800	LF	<u>\$32.00</u>	<u>\$121,600.00</u>
30,000 Gallon septic tank, pump, controls	1	EA	<u>\$30,000.00</u>	<u>\$30,000.00</u>
Furnish materials and equipment, and test sewer.	18,890	LF	<u>\$2.25</u>	<u>\$42,502.50</u>
<b>SANITARY SEWER SUBTOTAL:</b>				<b><u><u>\$585,103</u></u></b>
Furnish materials and construct 12" CL200 watermain including trench excavation, bedding and backfill.	7,600	LF	<u>\$56.00</u>	<u>\$425,600.00</u>
Furnish materials and construct fire hydrants, complete, including hydrant run, tee, and 6" valve.	17	EA	<u>\$3,300.00</u>	<u>\$56,100.00</u>
Furnish materials and install 8" to 12" butterfly valves.	20	EA	<u>\$1,260.00</u>	<u>\$25,200.00</u>
Furnish and install 8" to 12" bends.	20	EA	<u>\$600.00</u>	<u>\$12,000.00</u>
Furnish and install 12" to 8" D.I. tee and thrustblock.	5	EA	<u>\$700.00</u>	<u>\$3,500.00</u>
Furnish and install 12" plug.	2	EA	<u>\$600.00</u>	<u>\$1,200.00</u>
Furnish materials and install 1" Copper water service including unclassified trench excavation and backfill.	6,340	LF	<u>\$15.00</u>	<u>\$95,100.00</u>
Furnish materials and install 1" water service, tap, meter setter, meter stop, meter box, and trench excavation, bedding, and backfill.	182	EA	<u>\$380.00</u>	<u>\$69,160.00</u>
PRV Vault, Pressure level controls	1	EA	<u>\$55,000.00</u>	<u>\$55,000.00</u>
Chlorinate and pressure test water.	7,600	EA	<u>\$1.00</u>	<u>\$7,600.00</u>
<b>DOMESTIC WATER SUBTOTAL:</b>				<b><u><u>\$750,460</u></u></b>
Furnish and install 18" CMP culvert pipe.	120	LF	<u>\$30.00</u>	<u>\$3,600.00</u>
Furnish materials and install stormwater overflow and orifice control structures.	2	EA	<u>\$4,000.00</u>	<u>\$8,000.00</u>

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Furnish materials and install culverts with trash racks at existing roadways and canals, including pavement patching and traffic control.	4	EA	<u>\$4,000.00</u>	<u>\$16,000.00</u>
<b>DRAINAGE SUBTOTAL (DOES NOT INCLUDE STORMWATER RETENTION PONDS):</b>				<b><u><u>\$27,600</u></u></b>
For higher elevation streets furnish materials and construct 6" thickness aggregate base course.	20,265	SY	<u>\$5.50</u>	<u>\$111,457.50</u>
Furnish materials and construct aggregate base course, 6" thickness for paths.	8,500	SY	<u>\$5.60</u>	<u>\$47,600.00</u>
Furnish materials and construct 3" asphaltic concrete pavement for lower elevation streets.	17,000	SY	<u>\$8.45</u>	<u>\$143,650.00</u>
Furnish materials and construct 2" asphaltic concrete pavement for paths.	8,500	SY	<u>\$7.00</u>	<u>\$59,500.00</u>
Furnish materials and construct soft paths.	0	SY	<u>\$5.00</u>	<u>\$0.00</u>
<b>ON-SITE BASE AND PAVING SUBTOTAL:</b>				<b><u><u>\$362,208</u></u></b>
<b>CONSTRUCTION TOTAL:</b>				<b><u><u>\$2,251,770</u></u></b>
Power Company Service Contract	182	Units	<u>\$1,800.00</u>	<u>\$327,600.00</u>
Natural Gas Service Contract	182	Units	<u>\$500.00</u>	<u>\$91,000.00</u>
Crook County Land Use Fees (2% of Construction, used for estimating fees only)				<u>\$0</u>
State of Oregon Plan Review and Permit Fees		LS		<u>\$0.00</u>
Department of Environmental Quality Permit and Review Fees		LS		<u>\$0.00</u>
Civil Engineering and Surveying (10% of Construction)				<u>\$225,177</u>
<b>UTILITY, AGENCY, AND ENGINEERING FEES SUBTOTAL:</b>				<b><u><u>\$643,777</u></u></b>
<b>PROJECT TOTAL</b>				<b><u><u>\$2,895,547</u></u></b>