

Idaho Power Hailey to Ketchum 138kV Underground Transmission Line Wood River Substation to Buttercup Road Summary of Cost

SUMMARY	XLPE Cable System Costs		Total Cost
	Material Costs	Labor Costs	
Duct Bank	\$386,195	\$664,200	\$1,050,395
Splice Vaults	\$24,000	\$70,000	\$94,000
Cable	\$736,000	\$238,500	\$974,500
Splices	\$112,000	\$96,000	\$208,000
Terminations	\$107,900	\$96,000	\$203,900
Arresters	\$32,500	\$30,000	\$62,500
Additional Cable Accessories	\$61,700	\$63,600	\$125,300
Communication System	\$20,600	\$26,200	\$46,800
Termination Structures	\$340,000	\$230,000	\$570,000
Mob/Demob	\$0	\$280,000	\$280,000
Engineering and Construction Management	\$0	\$275,000	\$275,000
SUBTOTAL	\$1,820,895	\$2,069,500	\$3,890,395
30% Contingency	\$546,269	\$620,850	\$1,167,119
TOTAL	\$2,367,164	\$2,690,350	\$5,057,514

Notes:

- 1 Additional cable accessories consist of the following components:
 Grounding system for vaults
 Link boxes
 Cable clamps
 Continuity conductor
 Jacket integrity test
- 2 Communication system consists of the following:
 Terminal equipment and handholes
 Fiber-optic cable, one per circuit
 2" conduit
- 3 Assumed rock excavation for 30% of route
- 4 Assumed backfill comprised of 100% flowable fill
- 5 No dewatering for open trenching included
- 6 No real estate or permitting included
- 7 No temperature monitoring included
- 8 Engineering includes SWPPP costs
- 9 Cost estimate does not include *Cost Loading (Idaho Power Breakdown)*
- 10 Idaho Power internal costs not included
- 11 Due to the volatility of metal costs, the cable material prices could increase
- 12 1 spare reel (2500 ft), 1 spare termination, 1 spare arrester, 2 spare splices included

Idaho Power Hailey to Ketchum 138kV Underground Transmission Line Wood River Substation to Buttercup Road 750 kcmil Cu 6 Cables 628 Amps 2450 feet 0.5 miles	1 Number of Duct Banks 8 Number of Cable Ducts 2 Number of Comm Ducts	Prepared by: DM Checked by: AS
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Description	Quantity	Material Price	Total Material Price	Labor Price	Total Labor Price	Total Price
Cable and Accessories Section:						
XLPE cable, per foot	15,900	\$40.00	\$636,000	\$15.00	\$238,500	\$874,500
Spare XLPE cable on reel, per foot	2,500	\$40.00	\$100,000	\$0.00	\$0	\$100,000
Terminators, each	12	\$8,300.00	\$99,600	\$8,000.00	\$96,000	\$195,600
Spare Terminators, each	1	\$8,300.00	\$8,300	\$0.00	\$0	\$8,300
Arresters, each	12	\$2,500.00	\$30,000	\$2,500.00	\$30,000	\$60,000
Spare Arresters, each	1	\$2,500.00	\$2,500	\$0.00	\$0	\$2,500
Splices, each	12	\$8,000.00	\$96,000	\$8,000.00	\$96,000	\$192,000
Spare Splices, each	2	\$8,000.00	\$16,000	\$0.00	\$0	\$16,000
Grounding system for vaults, each	2	\$3,500.00	\$7,000	\$3,500.00	\$7,000	\$14,000
Grounding system for structures, each	4	\$3,500.00	\$14,000	\$500.00	\$2,000	\$16,000
Cable clamps, each	190	\$100.00	\$19,000	\$100.00	\$19,000	\$38,000
Continuity conductor, per foot	6,200	\$3.50	\$21,700	\$4.00	\$24,800	\$46,500
Jacket integrity test, cable segment	18	\$0.00	\$0	\$600.00	\$10,800	\$10,800
Other (provide a description)						
Communication System:						
Fiber-optic cable, per foot	5,600	\$1.00	\$5,600	\$2.00	\$11,200	\$16,800
Fiber-optic cable splices, each	0	\$5,000.00	\$0	\$5,000.00	\$0	\$0
Handholes, each	6	\$2,500.00	\$15,000	\$2,500.00	\$15,000	\$30,000
Other (provide a description)						
Duct Bank and Earthwork:						
Cable conduit, per foot	19,800	\$3.50	\$69,300	\$2.00	\$39,600	\$108,900
Continuity conduit, per foot	5,000	\$1.00	\$5,000	\$1.00	\$5,000	\$10,000
Communication conduit, per foot	5,000	\$3.00	\$15,000	\$2.00	\$10,000	\$25,000
Conduit spacers, each	1,490	\$4.00	\$5,960	\$6.00	\$8,940	\$14,900
Excavation, no rock, including hauling, per cubic yard	1,078	\$0.00	\$0	\$160.00	\$172,480	\$172,480
Excavation, rock, including hauling, per cubic yard	462	\$0.00	\$0	\$400.00	\$184,800	\$184,800
Soil Backfill, including hauling, per cubic yard	17	\$25.00	\$425	\$75.00	\$1,275	\$1,700
Flowable Fill, per cubic yard	665	\$50.00	\$33,250	\$35.00	\$23,275	\$56,525
Duct encasement concrete, per cubic yard	858	\$130.00	\$111,540	\$35.00	\$30,030	\$141,570
Splicing Vaults, each	2	\$12,000.00	\$24,000	\$35,000.00	\$70,000	\$94,000
1" steel plating, per square foot	30	\$20.00	\$600	\$50.00	\$1,500	\$2,100
Sheeting and shoring, per foot	30	\$40.00	\$1,200	\$40.00	\$1,200	\$2,400
Pavement repair, per square foot	260	\$7.00	\$1,820	\$5.00	\$1,300	\$3,120
Curb repair, per foot	0	\$15.00	\$0	\$5.00	\$0	\$0
Sidewalk repair, per square foot	0	\$15.00	\$0	\$5.00	\$0	\$0
Landscape restoration, per square foot	55,130	\$2.50	\$137,825	\$2.50	\$137,825	\$275,650
Loam and seed, per square yard	4,900	\$0.25	\$1,225	\$0.25	\$1,225	\$2,450
Traffic control, days	61	\$50.00	\$3,050	\$750.00	\$45,750	\$48,800
Other (provide a description)						
Termination Work						
Ketchum Substation Transition structure, each	2	\$40,000.00	\$80,000	\$15,000.00	\$30,000	\$110,000
Ketchum Substation Transition structure foundation,	2	\$20,000.00	\$40,000	\$10,000.00	\$20,000	\$60,000
HWY 75 Transition structures, each	2	\$90,000.00	\$180,000	\$80,000.00	\$160,000	\$340,000
HWY 75 Transition structure foundations, each	2	\$20,000.00	\$40,000	\$10,000.00	\$20,000	\$60,000
Cable shroud, each	0	\$5,000.00	\$0	\$2,000.00	\$0	\$0
Other (provide a description)						
Subtotal			\$1,820,895		\$1,514,500	\$3,335,395
Unallocated Costs:						
Engineering, lot	1	\$0.00	\$0	\$125,000	\$125,000	\$125,000
Construction management, lot	1	\$0.00	\$0	\$150,000	\$150,000	\$150,000
Mobilization, lot	1	\$0.00	\$0	\$150,000	\$150,000	\$150,000
Demobilization, lot	1	\$0.00	\$0	\$130,000	\$130,000	\$130,000
Real estate/permitting	0	\$0.00	\$0	\$0.00	\$0	\$0
Subtotal			\$1,820,895		\$2,069,500	\$3,890,395
Contingency	30%		\$546,269		\$620,850	\$1,167,119
Total Price (should add up to Lump Sum Price)		\$	\$2,367,164	\$	\$2,690,350	\$5,057,514