



**Material**

1. Material purchased by the State of NJ via cash transaction	\$22,323	
2. Material purchased via Forest Service WIT Grant	\$10,000	
3. Material value donated by GPU Energy and others	\$3,513	
	<b>\$35,836</b>	<b>(36.4% of total cost)</b>

**Machine Time**

4. Heavy machinery & tool value donated by GPU Energy	\$ 7,402	
5. Trucking provided by the State of NJ	\$1,005	
6. Hand tools purchased by the State of NJ	\$992	
7. Tools provided by Trail Conference	\$1,345	
	<b>\$10,744</b>	<b>(10.9% of total cost)</b>

**Work-Hours**

8. 1,309 State employee work-hours (25%)	\$19,635	
9. 1,150 N.J. Corrections work detail (22%)	\$1,100	
10. 2,780 Volunteer work-hours (53%)	\$31,074	
5,239 Total Work-Hours	<b>\$51,809</b>	<b>(52.7% of total cost)</b>
Direct Cash Cost = Above Items: 1 + 2 + 6 + 8 =	\$52,969	(54% of total cost)
Donation Value = Above Items: 3 + 4 + 5 + 7 + 9 =	\$45,420	(46% of total cost)
<b>Project "Construction Cost"</b>	<b>\$98,389</b>	

The volunteer-driven, public-private partnership provided a bridge that was estimated to cost \$208,000 by the DBC 1985 pre-design study. Adjusting to 1995 dollars and incorporating expenses not envisioned by the pre-design study, it can be stated without reservation that the **true project value is \$300,000 or more**. This \$300,000 value was built by purchasing \$32,323 in material, utilizing donated material, enlisting the aid of resources from the NJ Division of Parks & Forestry, the field know-how and equipment of GPU Energy, and most significantly, the labor and interest of the NY-NJ Trail Conference.

## Summary of Construction Costs

	<u>Purchase</u>	<u>Donation</u>
Heavy Equipment		\$7,657
Foundation	\$8,030	2,202
Towers	775	2,192
Walkway, Rails, Stairs	13,563	
Suspension	9,184	560
Tools	1,168	2,095
Misc.	<u>771</u>	<u>6,590</u>
<b>Total</b>	<b>\$33,491</b>	<b>\$21,296</b>



Total Bridge Span	=	146'
Bridge Walkway Width	=	44"
Bridge Square Footage	=	535 S.F.
Total Project Cost per Foot of Span	=	\$674
Total Project Cost per Square Foot	=	\$184
Total Material Cost per Foot of Span	=	\$245
Total Material Cost per Square Foot	=	\$ 67
Tool & Labor Cost per Foot of Span	=	\$429
Tool & Labor Cost per Square Foot	=	\$117
CCA #1 KDAT SYP Lumber Superstructure Cost, Material Only	=	\$14,338 @ \$98.20/Foot of Span or \$26.83/Square Foot

## Material and Equipment Cost Breakdown

*PF = NJ Division of Parks and Forestry*

*TC = NY-NJ Trail Conference\**

<u>Use &amp; Item</u>	<u>Cash Provided By:</u>		<u>Donations Provided By:</u>	
<b><i>Foundation</i></b>				
1.75" Sixplex Swamp Anchors, Ext. Rod, Shackle	TC	\$2,166.18		
1.5" Helical Pier Foundations	TC	\$778.00		
Guyline Anchors			GPU Energy	\$1,302.00
Crushed Stone				
Tensor Geogrid 1400	PF	\$598.00	T. Latincsics	\$900.00
#18 Rebar	PF	\$172.00		
#3 - #8 Rebar	PF	\$894.50		
Fiber Form	PF	\$672.00		
32 C.Y. Concrete	PF	\$2,114.90		
Concrete Pumping	PF	<u>\$635.00</u>		
		\$8,030.40		<u>\$2,202.00</u>
<b><i>Towers</i></b>				
Four 40' Class 1 Transmission Poles			GPU Energy	\$1,200.00
Four 20' Class 4 Transmission Poles			GPU Energy	\$300.00
3" x 10" Timbers	PF	\$775.20		
3/4" Bolts, Nuts, Washers			GPU Energy	\$280.00
1/2 Circle Spike Grids (48)			GPU Energy	\$96.00
1/2" Structural Strand Guy Lines			GPU Energy	\$120.00
Four J6270 Pole Band Assembly			GPU Energy	\$80.00
Four Foundation Rebar Pole Band Assembly			GPU Energy	\$80.00
Twelve Yellow Plastic Guy Line Guard			GPU Energy	<u>\$36.00</u>
		<u>\$775.20</u>		<u>\$2,192.00</u>

\* Includes USDA Forest Service Funding