

## BRIDGE CONSTRUCTION AND PE COSTS (continued)

	BRIDGE CONSTRUCTION	BRIDGE P. E.
<b>Proposed BRIDGE # 6</b> Length (ft.)	<input style="width: 100%;" type="text" value="\$0"/>	% by Consultants:
Width (ft.)	<input style="width: 100%;" type="text" value="\$0"/>	<input style="width: 100%;" type="text"/>
Complexity / Type of New Bridge (C, M, S, WEB, or SRO)	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
	Constr. Engr. Br. # 6	P.E. Bridge # 6
Removal of Existing Structure # 6:	<input style="width: 100%;" type="text" value="\$0"/>	<input style="width: 100%;" type="text" value="\$0"/>
Length of Existing Structure (ft.)	0.0%	Misc. Cost Bridge # 6
Width of Existing Structure (ft.)	<input style="width: 100%;" type="text" value="\$0"/>	<input style="width: 100%;" type="text"/>
<b>Proposed BRIDGE # 7</b> Length (ft.)	<input style="width: 100%;" type="text" value="\$0"/>	% by Consultants:
Width (ft.)	<input style="width: 100%;" type="text" value="\$0"/>	<input style="width: 100%;" type="text"/>
Complexity / Type of New Bridge (C, M, S, WEB, or SRO)	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
	Constr. Engr. Br. # 7	P.E. Bridge # 7
Removal of Existing Structure # 7:	<input style="width: 100%;" type="text" value="\$0"/>	<input style="width: 100%;" type="text" value="\$0"/>
Length of Existing Structure (ft.)	0.0%	Misc. Cost Bridge # 7
Width of Existing Structure (ft.)	<input style="width: 100%;" type="text" value="\$0"/>	<input style="width: 100%;" type="text"/>
<b>Proposed BRIDGE # 8</b> Length (ft.)	<input style="width: 100%;" type="text" value="\$0"/>	% by Consultants:
Width (ft.)	<input style="width: 100%;" type="text" value="\$0"/>	<input style="width: 100%;" type="text"/>
Complexity / Type of New Bridge (C, M, S, WEB, or SRO)	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
	Constr. Engr. Br. # 8	P.E. Bridge # 8
Removal of Existing Structure # 8:	<input style="width: 100%;" type="text" value="\$0"/>	<input style="width: 100%;" type="text" value="\$0"/>
Length of Existing Structure (ft.)	0.0%	Misc. Cost Bridge # 8
Width of Existing Structure (ft.)	<input style="width: 100%;" type="text" value="\$0"/>	<input style="width: 100%;" type="text"/>
<b>Proposed BRIDGE # 9</b> Length (ft.)	<input style="width: 100%;" type="text" value="\$0"/>	% by Consultants:
Width (ft.)	<input style="width: 100%;" type="text" value="\$0"/>	<input style="width: 100%;" type="text"/>
Complexity / Type of New Bridge (C, M, S, WEB, or SRO)	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
	Constr. Engr. Br. # 9	P.E. Bridge # 9
Removal of Existing Structure # 9:	<input style="width: 100%;" type="text" value="\$0"/>	<input style="width: 100%;" type="text" value="\$0"/>
Length of Existing Structure (ft.)	0.0%	Misc. Cost Bridge # 9
Width of Existing Structure (ft.)	<input style="width: 100%;" type="text" value="\$0"/>	<input style="width: 100%;" type="text"/>

**NOTE:** Structure Complexity is based upon Height, Difficulty of Construction, and other Factors

**NOTE:** Projected Estimate Requires Route Number, Ad Date (Year), and other applicable data to be Entered / Selected previously on This Worksheet

Bridge Estimate (Today)

Total Bridge Estimate in Mid- 2005

Total Bridge P. E. Costs



# Project Cost Estimating System

## RIGHT-OF-WAY ESTIMATE



Project & PPMS Numbers :

I-81 Study

VDOT Construction District :

Bristol, Salem & Staunton

Select Project Area Real Estate Costs :

Average

Define Project Land Use Characteristics :

Agricultural :	50%
Residential :	40%
Industrial :	0%
Commercial :	10%
100%	

Instructions: Please fill-in all applicable White Boxes or make a choice from the Drop-down Lists

Enter the Approximate Number of Parcels on the Project :

Select *Computed* or User Defined Costs :

Computed Costs

### 1. LAND VALUE

Prop. Right-of-Way  
Temp. Ease.  
Perm. Util. Ease.

Total Right-of-Way Project Length (ML + Connections)	5,280	ft		Computed RW Cost per sq ft =	\$0.57
Average width of Existing RW	160	ft	Enter Right-of-Way Estimator's Right-of-		
Average width of Proposed RW	300	ft	Way Cost per sq ft :		
Total area of all additional Prop. Right-of-Way	200,640	sf	939,840 sq ft =	21.576	Ac.
Approx. % of Prop. CL within	70	ft of Exist. CL		100%	
Approx. % of Prop. CL between	70	ft & 230 ft of Exist. CL		0%	
Approx. % of Prop. CL greater than	230	ft from Exist. CL		0%	
Average Width of parallel Temporary Easements Left		ft	Comp. Temp. Ease. Cost / sq ft =	\$0.14	
Total Length of parallel Temporary Easements Left		ft	Enter Right-of-Way Estimator's Temp.		
Average Width of parallel Temporary Easements Right		ft	Ease. Cost per sq ft :		
Total Length of parallel Temporary Easements Right		ft	0 sq ft =	0.000	Ac.
This Box Must Be Empty >	132,000	sf	Comp. Utility Ease. Cost / sq ft =	\$0.00	
This Box Must Be Empty >			RW Est's. Utility Ease. Cost per sq ft :	\$0.22	
This Box Must Be Empty >	0	ea	132,000 sq ft =	3.030	Ac.
This Box Must Be Empty >			Comp. Perm. Ease. Cost / sq ft =	\$0.46	
Total area of All Permanent Easements	132,000	sf	RW Est's. Perm. Ease. Cost per sq ft :		
			132,000 sq ft =	3.030	Ac.

**COST OF LAND (Item # 1)      \$625,300      (Computed Costs)**

### 2. BUILDING VALUE

Based upon comparison to similar, occupied <b>Residential Dwellings</b> in the Project Area, enter the Number of:			Computed:
A. Low Cost Residential Dwellings :		\$0	
B. Moderately Low Cost Dwellings :		\$0	
C. Average Cost Residential Dwellings :	8	\$900,000	
D. Moderately High Cost Dwellings :		\$0	
E. High Cost Residential Dwellings :		\$0	
<b>Computed Total Residential Dwelling Costs :</b>		<b>\$900,000</b>	
<b>Estimator's Total Residential Dwelling Costs :</b>		<b>\$900,000</b>	

Enter the total estimated cost of ALL **COMMERCIAL & INDUSTRIAL BUILDINGS** to be taken:  
**Note: No Computed Costs Available. Use User Defined Costs Below:**  
 Estimator's Total Commercial / Industrial Buildings Costs :

### 3. OTHER IMPROVEMENTS

Enter the estimated cost of ALL <b>OTHER IMPROVEMENTS</b> on the Project:	
<b>Computed Total Other Improvements Costs :</b>	<b>\$107,500</b>
<b>Estimator's Total Other Improvements Costs :</b>	<b>\$107,500</b>

### 4. DAMAGES

Anticipated % of Parcels Affected by Damages to Remainder :	50%
Anticipated Relative Cost Impact of Damages to Remainder :	Moderate
Approximate Number of Parcels Affected :	0
<b>Computed Cost of Damages to Remainder :</b>	<b>\$0</b>
<b>Estimator's Total Cost of Damages to Remainder :</b>	<b>\$58,500</b>

**TOTAL ACQUISITIONS (Items # 1 - 4)      \$1,632,800      (Computed Costs)**

**5. ADMINISTRATIVE SETTLEMENTS**

Anticipated % of Parcels Affected by Administrative Settlements :	100%
Anticipated Relative Cost Impact of Administrative Settlements :	Moderate
Approximate Number of Parcels Affected :	0
<i>Computed Cost of Administrative Settlements :</i>	\$0
<b>Estimator's Total Cost of Administrative Settlements :</b>	<b>\$251,850</b>

**6. CONDEMNATION INCREASES**

Anticipated % of Parcels Affected by Condemnation Increases :	30%
Anticipated Relative Cost Impact of Condemnation Increases :	Moderate
Approximate Number of Parcels Affected :	0
<i>Computed Cost of Condemnation Increases :</i>	\$0
<b>Estimator's Total Cost of Condemnation Increases :</b>	<b>\$141,750</b>

**7. ADMINISTRATIVE COSTS & INCIDENTAL EXPENSES**

Anticipated Relative Cost Impact of Admin. Costs & Incidental Expenses :	Moderate
<i>Computed Administrative Costs &amp; Incidental Expenses :</i>	\$0
<b>Estimator's Total Administrative Costs &amp; Incidental Expenses :</b>	<b>\$39,675</b>

**8. DEMOLITION CONTRACTS**

Anticipated Relative Cost Impact of Demolition Contracts :	Moderate
<i>Computed Costs of Demolition Contracts :</i>	\$45,000
<b>Estimator's Total Cost of Demolition Contracts :</b>	<b>\$45,000</b>

**9. HAZARDOUS MATERIALS REMOVAL**

Anticipated Number of Demolished Buildings Requiring Asbestos Removal :	2
Anticipated Relative Cost of Asbestos Removal from Demolished Buildings :	Moderate
Anticipated Number of Other Hazardous Materials Removal Sites :	0
Anticipated Relative Cost Impact of Other Hazardous Materials Removal :	
<i>Computed Cost of Hazardous Materials Removal :</i>	\$15,800
<b>Estimator's Total Costs of Hazardous Materials Removal :</b>	<b>\$15,800</b>

**10. PROPERTY MANAGEMENT**

Anticipated Relative Cost Impact of Property Management :	
<i>Computed Costs of Property Management :</i>	\$0
<b>Estimator's Total Cost of Property Management :</b>	

**TOTAL OTHER ITEMS (Items # 5 - 10)      \$60,800      (Computed Costs)**

**11. RELOCATION ASSISTANCE****Residential Relocation Costs:**

Anticipated Relative Cost Impact of Residential Relocation Expenses :	Moderately High
<i>Computed Residential Relocation Costs :</i>	\$334,000
<b>Estimator's Total Residential Relocation Costs :</b>	<b>\$334,000</b>

**Commercial Relocation Costs:**

Note: No Computed Costs Available. Use User Defined Costs Below:

<b>Estimator's Total Comm/Indust Relocation Costs :</b>	<b>\$0</b>
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Total Displacements:

Farms:

Families:

Non-Profit:

Businesses:

Personal Property Only:

**TOTAL RELOCATION ASSISTANCE (Item # 11)      \$334,000      (Computed Costs)**

**12. YEAR OF RIGHT-OF-WAY AUTHORIZATION**

2015

<b>SUB-TOTAL RIGHT-OF-WAY COSTS</b>	<i>(Computed Costs)</i>	<b>\$2,890,900</b>	<i>Totals</i>
<b>UTILITY COSTS TO RIGHT-OF-WAY PROJECT *</b>		<b>\$195,300</b>	<i>Include</i>
<b>TOTAL RIGHT-OF-WAY COSTS</b>		<b>\$3,086,200</b>	<i>Inflation</i>

\* Utility Data display requires completion of Utilities Estimate Worksheet (tab below)

**COMMENTS:****RW-238 Data :**

Right-of-Way Estimate Date:

07/28/04

Based on Approved / Unapproved Plans ?

Unapproved Plans

Participating Cost / Non-Participating Cost ?

Today's Date:

11/16/05



## Project Cost Estimating System UTILITIES ESTIMATE



### A. ELECTRICAL

#### Transmission

	Computed or User	RW or Const	Type of Pole	No Entry Required	Number of Poles	Rural or Urban	Percent VDOT	Total Cost	\$ to RW Project	\$ to Const Project
A	Computed	RW					100%	\$0	\$0	\$0
B	Computed	RW					100%	\$0	\$0	\$0
C	Computed	RW					100%	\$0	\$0	\$0
D	Computed	RW					100%	\$0	\$0	\$0
								\$0	\$0	\$0

#### Distribution - Aerial

	Computed or User	RW or Const	Type of Pole	No Entry Required	Number of Poles	Rural or Urban	Percent VDOT	Total Cost	\$ to RW Project	\$ to Const Project
E	Computed	RW					100%	\$0	\$0	\$0
F	Computed	RW	Three Phase		6	Rural	50%	\$48,000	\$24,000	\$0
G	Computed	RW					100%	\$0	\$0	\$0
H	Computed	RW	Three Phase		2	Urban	100%	\$20,000	\$20,000	\$0
I	Computed	RW					100%	\$0	\$0	\$0
J	Computed	RW					100%	\$0	\$0	\$0
								\$68,000	\$44,000	\$0

#### Distribution - Underground - by Linear Foot

	Computed or User	RW or Const	Type of Service	No Entry Required	Total Length(ft)	Percent VDOT	Total Cost	\$ to RW Project	\$ to Const Project	
K	Computed	RW				100%	\$0	\$0	\$0	
L	Computed	RW	Three Phase		800	50%	\$136,000	\$68,000	\$0	
M	Computed	RW				100%	\$0	\$0	\$0	
N	Computed	RW				100%	\$0	\$0	\$0	
								\$136,000	\$68,000	\$0

#### Distribution - Underground - by Pole Equivalent

	Computed or User	RW or Const	Equivalent Type of Pole	No Entry Required	Equiv. # of Poles	Percent VDOT	Total Cost	\$ to RW Project	\$ to Const Project	
O	Computed	RW				100%	\$0	\$0	\$0	
P	Computed	RW				100%	\$0	\$0	\$0	
Q	Computed	RW				100%	\$0	\$0	\$0	
R	Computed	RW				100%	\$0	\$0	\$0	
								\$0	\$0	\$0

#### Distribution - Conduit for Underground Electrical

	Computed or User	RW or Const	Type of Service	No Entry Required	Total Length(ft)	Percent VDOT	Total Cost	\$ to RW Project	\$ to Const Project	
S	Computed	RW				0%	\$0	\$0	\$0	
T	Computed	RW				100%	\$0	\$0	\$0	
								\$0	\$0	\$0

#### Distribution - Underground - Manholes

	Computed or User	RW or Const	Size / Price Range of Manhole	No Entry Required	Number of MH's	Percent VDOT	Total Cost	\$ to RW Project	\$ to Const Project	
U	Computed	RW				100%	\$0	\$0	\$0	
V	Computed	RW				100%	\$0	\$0	\$0	
W	Computed	RW				100%	\$0	\$0	\$0	
X	Computed	RW				100%	\$0	\$0	\$0	
								\$0	\$0	\$0

#### Misc. Electrical Costs

Y	Misc. Electrical Costs Charged to RW Project:		\$5,000	<table border="1" style="width: 100%;"> <tr> <td style="width: 33%;">TOTAL ELECTRICAL</td> <td style="width: 33%;">Total to RW Proj</td> <td style="width: 33%;">Total to Const Proj</td> </tr> <tr> <td style="text-align: right;">\$214,000</td> <td style="text-align: right;">\$117,000</td> <td style="text-align: right;">\$5,000</td> </tr> </table>	TOTAL ELECTRICAL	Total to RW Proj	Total to Const Proj	\$214,000	\$117,000	\$5,000
TOTAL ELECTRICAL	Total to RW Proj	Total to Const Proj								
\$214,000	\$117,000	\$5,000								
Z	Misc. Electrical Costs Charged to Const. Project:		\$5,000							

## B. TELEPHONE

### Aerial - Copper Wire

	Computed or User	RW or Const	Type of Cable (Pair Cable)	No Entry Required	Number of Poles	Percent VDOT	Total Cost	\$ to RW Project	\$ to Const Project
A	Computed	RW				100%	\$0	\$0	\$0
B	Computed	RW	400		4	50%	\$14,800	\$7,400	\$0
C	Computed	RW				100%	\$0	\$0	\$0
D	Computed	RW				100%	\$0	\$0	\$0
							<b>\$14,800</b>	<b>\$7,400</b>	<b>\$0</b>

### Aerial - Fiber Optic

	Computed or User	RW or Const	Type of Cable (Optical Fiber)	No Entry Required	Number of Poles	Percent VDOT	Total Cost	\$ to RW Project	\$ to Const Project
E	Computed	RW				100%	\$0	\$0	\$0
F	Computed	RW				100%	\$0	\$0	\$0
G	Computed	RW				100%	\$0	\$0	\$0
H	Computed	RW				100%	\$0	\$0	\$0
							<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

### Underground - Copper Wire

	Computed or User	RW or Const	Type of Cable (Pair Cable)	No Entry Required	Total Length(ft)	Percent VDOT	Total Cost	\$ to RW Project	\$ to Const Project
I	Computed	RW				100%	\$0	\$0	\$0
J	Computed	RW				100%	\$0	\$0	\$0
K	Computed	RW				100%	\$0	\$0	\$0
L	Computed	RW				100%	\$0	\$0	\$0
							<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

### Underground - Fiber Optic

	Computed or User	RW or Const	Type of Cable (Optical Fiber)	No Entry Required	Total Length(ft)	Percent VDOT	Total Cost	\$ to RW Project	\$ to Const Project
M	Computed	RW				100%	\$0	\$0	\$0
N	Computed	RW				100%	\$0	\$0	\$0
O	Computed	RW				100%	\$0	\$0	\$0
P	Computed	RW				100%	\$0	\$0	\$0
							<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

### Underground - Copper Wire - In Conduit

	Computed or User	RW or Const	Type of Cable (Pair Cable)	No Entry Required	Total Length(ft)	Percent VDOT	Total Cost	\$ to RW Project	\$ to Const Project
Q	Computed	RW				100%	\$0	\$0	\$0
R	Computed	RW				100%	\$0	\$0	\$0
S	Computed	RW				100%	\$0	\$0	\$0
T	Computed	RW				100%	\$0	\$0	\$0
							<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

### Underground - Fiber Optic - In Conduit

	Computed or User	RW or Const	Type of Cable (Optical Fiber)	No Entry Required	Total Length(ft)	Percent VDOT	Total Cost	\$ to RW Project	\$ to Const Project
U	Computed	RW				100%	\$0	\$0	\$0
V	Computed	RW				100%	\$0	\$0	\$0
W	Computed	RW				100%	\$0	\$0	\$0
X	Computed	RW				100%	\$0	\$0	\$0
							<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

### Manholes for UG Telephone Service

	Computed or User	RW or Const	Item	No Entry Required	Quantity	Percent VDOT	Total Cost	\$ to RW Project	\$ to Const Project
Y	Computed	RW	Telephone Manhole			100%	\$0	\$0	\$0
Z	Computed	RW	Telephone Manhole			100%	\$0	\$0	\$0

### Misc. Telephone Costs

AA	Misc. Telephone Costs Charged to RW Project:	<input type="text"/>	<table border="1"> <tr> <th>TOTAL TELEPHONE</th> <th>Total to RW Proj</th> <th>Total to Const Proj</th> </tr> <tr> <td>\$14,800</td> <td>\$7,400</td> <td>\$0</td> </tr> </table>	TOTAL TELEPHONE	Total to RW Proj	Total to Const Proj	\$14,800	\$7,400	\$0
TOTAL TELEPHONE	Total to RW Proj	Total to Const Proj							
\$14,800	\$7,400	\$0							
BB	Misc. Telephone Costs Charged to Const. Project:	<input type="text"/>							

### C. CATV

#### Aerial CATV

	Computed or User	RW or Const	Type of Service	No Entry Required	Number of Pole Att'mnts	Percent VDOT	Total Cost	\$ to RW Project	\$ to Const Project
A	Computed	RW				100%	\$0	\$0	\$0
B	Computed	RW	1.00 Coax		6	100%	\$4,200	\$4,200	\$0
C	Computed	RW				100%	\$0	\$0	\$0
D	Computed	RW				100%	\$0	\$0	\$0
							\$4,200	\$4,200	\$0

#### Underground CATV

	Computed or User	RW or Const	Type of Service	No Entry Required	Total Length(ft)	Percent VDOT	Total Cost	\$ to RW Project	\$ to Const Project
E	Computed	RW				100%	\$0	\$0	\$0
F	Computed	RW	1.00 Coax		500	100%	\$8,000	\$8,000	\$0
G	Computed	RW				100%	\$0	\$0	\$0
H	Computed	RW				100%	\$0	\$0	\$0
							\$8,000	\$8,000	\$0

#### Power Units

	Computed or User	RW or Const	Item	No Entry Required	Quantity	Percent VDOT	Total Cost	\$ to RW Project	\$ to Const Project
I	Computed	RW	CATV Power Supply			100%	\$0	\$0	\$0
J	Computed	RW	CATV Power Supply			100%	\$0	\$0	\$0

#### Misc. CATV Costs

Misc. CATV Costs Charged to RW Project:

Misc. CATV Costs Charged to Const. Project:

TOTAL CATV	Total to RW Proj	Total to Const Proj
\$12,200	\$12,200	\$0

### D. WATER

#### Water Line

	Computed or User	RW or Const	Diameter of Water Pipe (in)	Loaded \$ per foot	Total Length(ft)	Percent VDOT	Total Cost	\$ to RW Project	\$ to Const Project
A	User	RW				50%	\$0	\$0	\$0
B	Computed	Const	8		500	50%	\$62,500	\$0	\$31,250
C	Computed	Const				100%	\$0	\$0	\$0
D	Computed	Const				100%	\$0	\$0	\$0
							\$62,500	\$0	\$31,250

#### Misc. Water Costs

E Misc. Water Costs Charged to Const. Project:

F Misc. Water Costs Charged to RW Project:

TOTAL WATER	Total to RW Proj	Total to Const Proj
\$62,500	\$0	\$31,250

### E. SANITARY SEWER

#### Sewer Line

	Computed or User	RW or Const	Diameter of Sewer Pipe (in)	No Entry Required	Total Length(ft)	Percent VDOT	Total Cost	\$ to RW Project	\$ to Const Project
A	Computed	Const				100%	\$0	\$0	\$0
B	Computed	Const				100%	\$0	\$0	\$0
C	Computed	Const				100%	\$0	\$0	\$0
D	Computed	Const				100%	\$0	\$0	\$0
							\$0	\$0	\$0

#### Misc. Sewer Costs

E Misc. Sewer Costs Charged to Const. Project:

F Misc. Sewer Costs Charged to RW Project:

TOTAL SEWER	Total to RW Proj	Total to Const Proj
\$0	\$0	\$0

## F. NATURAL GAS / PROPANE

### Distribution

	Computed or User	RW or Const	Diameter of Gas Line (in)	No Entry Required	Total Length(ft)	Percent VDOT	Total Cost	\$ to RW Project	\$ to Const Project
A	Computed	RW				100%	\$0	\$0	\$0
B	Computed	RW				100%	\$0	\$0	\$0
C	Computed	RW				100%	\$0	\$0	\$0
D	Computed	RW				100%	\$0	\$0	\$0
							\$0	\$0	\$0

### Transmission

	Computed or User	RW or Const	Diameter of Gas Line (in)	No Entry Required	Total Length(ft)	Percent VDOT	Total Cost	\$ to RW Project	\$ to Const Project
E	Computed	RW				100%	\$0	\$0	\$0
F	Computed	RW				100%	\$0	\$0	\$0
G	Computed	RW				100%	\$0	\$0	\$0
H	Computed	RW				100%	\$0	\$0	\$0
							\$0	\$0	\$0

### Misc. Natural Gas / Propane Costs

I	Misc. Gas / Pro Costs Charged to RW Project:	<input type="text"/>	TOTAL GAS / PROPANE	Total to RW Proj	Total to Const Proj
J	Misc. Gas / Pro Costs Charged to Const. Project:	<input type="text"/>			
			\$0	\$0	\$0

## G. PETROLEUM

### Transmission

	Computed or User	RW or Const	Diameter of Gas Line (in)	No Entry Required	Total Length(ft)	Percent VDOT	Total Cost	\$ to RW Project	\$ to Const Project
A	Computed	RW				100%	\$0	\$0	\$0
B	Computed	RW				100%	\$0	\$0	\$0
C	Computed	RW				100%	\$0	\$0	\$0
D	Computed	RW				100%	\$0	\$0	\$0
							\$0	\$0	\$0

### Misc. Petroleum Costs

E	Misc. Petroleum Costs Charged to RW Project:	<input type="text"/>	TOTAL PETROLEUM	Total to RW Proj	Total to Const Proj
F	Misc. Petroleum Costs Charged to Const. Project:	<input type="text"/>			
			\$0	\$0	\$0

## H. CELLULAR

### Cellular Telephone Costs

A	Total Cellular Costs Charged to RW Project:	<input type="text"/>	TOTAL CELLULAR	Total to RW Proj	Total to Const Proj
B	Total Cellular Costs Charged to Const. Project:	<input type="text"/>			
			\$0	\$0	\$0

## I. ADDITIONAL COSTS

	Additional Utility Costs to <u>Right-of-Way Project</u> :	<input type="text"/>	\$0
Comments:	<input type="text"/>		
	Additional Utility Costs to <u>Construction Project</u> :	<input type="text"/>	\$0
Comments:	<input type="text"/>		
	Additional Utility Costs to <u>Utility Owners/Others</u> :	<input type="text"/>	\$0
Comments:	<input type="text"/>		

TOTAL UTILITY COST - <u>RIGHT-OF-WAY PROJECT</u>	\$137,000
TOTAL UTILITY COST - <u>CONSTRUCTION PROJECT</u>	\$36,000
TOTAL UTILITY COST - <u>UTILITY OWNER / OTHERS</u>	\$130,650
<b>GRAND TOTAL UTILITY COSTS</b>	<b>\$303,650</b>



Project Cost Estimating System  
COMMENTS



General / Miscellaneous Comments from CONST, RW, & UTILITY Worksheets:	Team Member and Section:	Date Entered:
1 Spreadsheet used for I-81 NEPA Document per lane mile	VHB/Gannet Fleming	07/04/04
2 Reconstruction of Existing Roadway provided within estimate.	VHB/Gannett Fleming	03/15/05
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SEPARATED LANE CONCEPT 1 - ADD ONE EXCLUSIVE TRUCK LANE AND TWO EXCLUSIVE CAR LANES IN EACH DIRECTION



# Project Cost Estimating System SUMMARY PAGE

DISTRICT **Bristol, Salem & Staunton**

PROJECT NUMBER **I-81 Study ( 1 Trk & 2 Add Ln)**

PPMS NUMBER **n/a** AD DATE **2005**

PROJECT MANAGER / DESIGNER **Chris Collins/VHB**

Data Source for Construction Estimate: **CES**

Data Source for Right-of-Way Estimate: **CES**

Data Source for Utilities Estimate: **CES**

DATE **11/16/2005**

THE FOLLOWING DATA WILL BE PROVIDED UPON COMPLETION OF THE REMAINDER OF THE WORKBOOK, WHICH IS ACCESSED BY SELECTING THE CONST, RW, & UTIL TABS BELOW

CONSTRUCTION ESTIMATE **\$21,656,000**

PRELIMINARY ENGINEERING ESTIMATE **\$2,614,000**

RIGHT-OF-WAY & UTILITIES ESTIMATE **\$3,199,700**

TOTAL PROJECT ESTIMATE **\$27,469,700**

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Revised 12/08/03 RDW

Estimate Class: PFI

Version 2.0