



Project Cost Estimating System

SUMMARY PAGE

DISTRICT **Bristol, Salem & Staunton**

PROJECT NUMBER **I-81 Study (Climb & Aux.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 **\$736,000**

PRELIMINARY ENGINEERING ESTIMATE **\$213,000**

RIGHT-OF-WAY & UTILITIES ESTIMATE **\$323,300**

TOTAL PROJECT ESTIMATE **\$1,272,300**



Project Cost Estimating System CONSTRUCTION / BRIDGE / PE



Project / PPMS #			
Interstate Project ?	<input type="text" value="YES"/>		
Route Number	<input type="text" value="81"/>	Interstate Highway	
Geometric Standard	<input type="text" value="Interstate"/>	* Principal Arterial - Freeway	
Ad Date	<input type="text" value="2005"/>	Design Year =	<input type="text" value="2027"/>
Design Year ADT	<input type="text" value="30,000"/>	* Project Terrain	<input type="text" value="Rolling"/>
<i>Box Must Be Empty</i>	<input type="text"/>	Approx. DHV =	<input type="text" value="4,500"/>
Enter Design Speed (MPH) (Enter 60 or 70)	<input type="text" value="70"/>	* Design Speed =	<input type="text" value="70 MPH"/>
<i>Box Must Be Empty</i>	<input type="text"/>		
<i>Box Must Be Empty</i>	<input type="text"/>		
Project Length (mi.)	<input type="text" value="1.00"/>	* Number of Additional Lanes:	Length of Add'l. Lanes (mi.):
Total Length - Adding or Building <u>Two Lanes</u> (mi.)	<input type="text" value="0.00"/>	* <input type="text" value="+ One Add'l. Lane"/>	<input type="text" value="1.00"/>
Total Length - Adding or Building <u>Four Lanes</u> (mi.)	<input type="text" value="0.00"/>	* <input type="text" value="None"/>	<input type="text"/>
Total Length - Building <u>Ramps</u> and <u>Loops</u> (mi.)	<input type="text" value="0.00"/>	* <input type="text" value="None"/>	<input type="text"/>
<i>Box Must Be Empty</i>	<input type="text"/>		
<i>Box Must Be Empty</i>	<input type="text"/>	Normal Lane Width (ft.)	<input type="text" value="12"/>
<i>Box Must Be Empty</i>	<input type="text"/>	Total Alignment Miles Computed (Required for LD-430 Scoping Report)	<input type="text" value="0.00"/>
<i>Box Must Be Empty</i>	<input type="text"/>		
<i>Box Must Be Empty</i>	<input type="text"/>		
Number of <u>Right Turn Lanes</u> - Left PLUS Right Side	<input type="text" value="0"/>	*	
<i>Box Must Be Empty</i>	<input type="text"/>		
Number of <u>New Traffic Signals</u> Required	<input type="text" value="0"/>	*	
Number of <u>Traffic Signals</u> Requiring Adjustment	<input type="text" value="0"/>	*	Base Estimate <input type="text" value="\$588,000"/>
Cost of Large Drainage Structures (\$)	<input type="text" value="\$0"/>	*	Constr. Engr. <input type="text" value="\$105,840"/>
In-Plan Utility Costs	<input type="text" value="\$5,000"/>		Const. Est. (Today) <input type="text" value="\$693,840"/>
Adjustment for Unusual Construction Costs (\$)	<input type="text" value="\$50,000"/>	*	
<small>Examples - Add \$'s for: Bicycle Facilities, Landscaping, Retaining Walls, Lighting, Wetlands Mitigation Sites, etc.</small>			
Construction Estimate in Mid- 2005			\$736,000

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Additional (or Unusual) P. E. Costs (\$)

Select % of PE to be performed by Consultants

Preliminary
Engineering Cost

\$213,000

Note: Do Not Include Bridge P. E. Costs Here

Roadway P. E. \$ / Roadway Const. \$ = 28.9%

BRIDGE TOTALS

BRIDGE COUNT: 0

Bridge Estimate (Today)

Total Bridge Estimate in
Mid- 2005

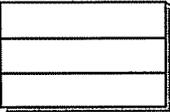
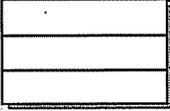
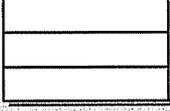
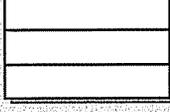
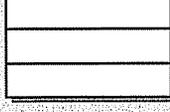
Total Bridge P. E. Costs

CONSTRUCTION & PE TOTALS

Total Construction Estimate
(Roadway plus Bridge)

Total Preliminary Engineering Estimate
(Roadway plus Bridge)

BRIDGE CONSTRUCTION AND PRELIMINARY ENGINEERING COSTS

	BRIDGE CONSTRUCTION	BRIDGE P. E.
Proposed BRIDGE # 1 Length (ft.)		% by Consultants:
Width (ft.)		\$0
Complexity / Type of New Bridge (C, M, S, WEB, or SRO)	Constr. Engr. Br. # 1	P.E. Bridge # 1
Removal of Existing Structure # 1:	\$0	\$0
Length of Existing Structure (ft.)	0.0%	Misc. Cost Bridge # 1
Width of Existing Structure (ft.)	\$0	
Proposed BRIDGE # 2 Length (ft.)		% by Consultants:
Width (ft.)		\$0
Complexity / Type of New Bridge (C, M, S, WEB, or SRO)	Constr. Engr. Br. # 2	P.E. Bridge # 2
Removal of Existing Structure # 2:	\$0	\$0
Length of Existing Structure (ft.)	0.0%	Misc. Cost Bridge # 2
Width of Existing Structure (ft.)	\$0	
Proposed BRIDGE # 3 Length (ft.)		% by Consultants:
Width (ft.)		\$0
Complexity / Type of New Bridge (C, M, S, WEB, or SRO)	Constr. Engr. Br. # 3	P.E. Bridge # 3
Removal of Existing Structure # 3:	\$0	\$0
Length of Existing Structure (ft.)	0.0%	Misc. Cost Bridge # 3
Width of Existing Structure (ft.)	\$0	
Proposed BRIDGE # 4 Length (ft.)		% by Consultants:
Width (ft.)		\$0
Complexity / Type of New Bridge (C, M, S, WEB, or SRO)	Constr. Engr. Br. # 4	P.E. Bridge # 4
Removal of Existing Structure # 4:	\$0	\$0
Length of Existing Structure (ft.)	0.0%	Misc. Cost Bridge # 4
Width of Existing Structure (ft.)	\$0	
Proposed BRIDGE # 5 Length (ft.)		% by Consultants:
Width (ft.)		\$0
Complexity / Type of New Bridge (C, M, S, WEB, or SRO)	Constr. Engr. Br. # 5	P.E. Bridge # 5
Removal of Existing Structure # 5:	\$0	\$0
Length of Existing Structure (ft.)	0.0%	Misc. Cost Bridge # 5
Width of Existing Structure (ft.)	\$0	

BRIDGE CONSTRUCTION AND PE COSTS (continued)

	BRIDGE CONSTRUCTION	BRIDGE P. E.
Proposed BRIDGE # 6 Length (ft.)	<input style="width: 100%;" type="text"/>	% by Consultants:
Width (ft.)	\$0	<input style="width: 100%;" type="text"/>
Complexity / Type of New Bridge (C, M, S, WEB, or SRO)	Constr. Engr. Br. # 6	P.E. Bridge # 6
Removal of Existing Structure # 6:	\$0	\$0
Length of Existing Structure (ft.)	0.0%	Misc. Cost Bridge # 6
Width of Existing Structure (ft.)	\$0	<input style="width: 100%;" type="text"/>
Proposed BRIDGE # 7 Length (ft.)	<input style="width: 100%;" type="text"/>	% by Consultants:
Width (ft.)	\$0	<input style="width: 100%;" type="text"/>
Complexity / Type of New Bridge (C, M, S, WEB, or SRO)	Constr. Engr. Br. # 7	P.E. Bridge # 7
Removal of Existing Structure # 7:	\$0	\$0
Length of Existing Structure (ft.)	0.0%	Misc. Cost Bridge # 7
Width of Existing Structure (ft.)	\$0	<input style="width: 100%;" type="text"/>
Proposed BRIDGE # 8 Length (ft.)	<input style="width: 100%;" type="text"/>	% by Consultants:
Width (ft.)	\$0	<input style="width: 100%;" type="text"/>
Complexity / Type of New Bridge (C, M, S, WEB, or SRO)	Constr. Engr. Br. # 8	P.E. Bridge # 8
Removal of Existing Structure # 8:	\$0	\$0
Length of Existing Structure (ft.)	0.0%	Misc. Cost Bridge # 8
Width of Existing Structure (ft.)	\$0	<input style="width: 100%;" type="text"/>
Proposed BRIDGE # 9 Length (ft.)	<input style="width: 100%;" type="text"/>	% by Consultants:
Width (ft.)	\$0	<input style="width: 100%;" type="text"/>
Complexity / Type of New Bridge (C, M, S, WEB, or SRO)	Constr. Engr. Br. # 9	P.E. Bridge # 9
Removal of Existing Structure # 9:	\$0	\$0
Length of Existing Structure (ft.)	0.0%	Misc. Cost Bridge # 9
Width of Existing Structure (ft.)	\$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)	\$0
Total Bridge Estimate in Mid- 2005	\$0
Total Bridge P. E. Costs	\$0



Project Cost Estimating System RIGHT-OF-WAY ESTIMATE



Project & PPMS Numbers :

VDOT Construction District :

Select Project Area Real Estate Costs :

Define Project Land Use Characteristics :

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

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

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-Way Cost per sq ft :	
Average width of Proposed RW	220	ft.		
Total area of all additional Prop. Right-of-Way	0	sq ft	316,800 sq ft =	7.273 Ac.
Approx. % of Prop. CL within	30	ft of Exist. CL		100%
Approx. % of Prop. CL between	30	ft & 190 ft of Exist. CL		0%
Approx. % of Prop. CL greater than	190	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. Ease. Cost per sq ft :	
Average Width of parallel Temporary Easements Right		ft.		
Total Length of parallel Temporary Easements Right		ft.	0 sq ft =	0.000 Ac.

This Box Must Be Empty >	0	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
OR			0 sq ft =	0.000 Ac.
This Box Must Be Empty >	0	ea	Comp. Perm. Ease. Cost / sq ft =	\$0.46
			RW Est's. Perm. Ease. Cost per sq ft :	
Total area of All Permanent Easements		sf	0 sq ft =	0.000 Ac.

COST OF LAND (Item # 1) \$180,700 (Computed Costs)

2. BUILDING VALUE

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

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 OTHER IMPROVEMENTS on the Project:	
Computed Total Other Improvements Costs :	\$18,100
Estimator's Total Other Improvements Costs :	\$24,100

4. DAMAGES

Anticipated % of Parcels Affected by Damages to Remainder :	0%
Anticipated Relative Cost Impact of Damages to Remainder :	
Approximate Number of Parcels Affected :	0
Computed Cost of Damages to Remainder :	\$0
Estimator's Total Cost of Damages to Remainder :	\$0

TOTAL ACQUISITIONS (Items # 1 - 4) \$198,800 (Computed Costs)

5. ADMINISTRATIVE SETTLEMENTS

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

6. CONDEMNATION INCREASES

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

7. ADMINISTRATIVE COSTS & INCIDENTAL EXPENSES

Anticipated Relative Cost Impact of Admin. Costs & Incidental Expenses :	
<i>Computed Administrative Costs & Incidental Expenses :</i>	<i>\$0</i>
Estimator's Total Administrative Costs & Incidental Expenses :	

8. DEMOLITION CONTRACTS

Anticipated Relative Cost Impact of Demolition Contracts :	
<i>Computed Costs of Demolition Contracts :</i>	<i>\$0</i>
Estimator's Total Cost of Demolition Contracts :	

9. HAZARDOUS MATERIALS REMOVAL

Anticipated Number of Demolished Buildings Requiring Asbestos Removal :	0
Anticipated Relative Cost of Asbestos Removal from Demolished Buildings :	
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>	<i>\$0</i>
Estimator's Total Costs of Hazardous Materials Removal :	

10. PROPERTY MANAGEMENT

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

TOTAL OTHER ITEMS (Items # 5 - 10) \$0 (Computed Costs)

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

Anticipated Relative Cost Impact of Residential Relocation Expenses :	
<i>Computed Residential Relocation Costs :</i>	<i>\$0</i>
Estimator's Total Residential Relocation Costs :	

Commercial Relocation Costs:

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

Estimator's Total Comm/Indust Relocation Costs :	\$0
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Total Displacements: Farms:
 Families: Non-Profit:
 Businesses: Personal Property Only:

TOTAL RELOCATION ASSISTANCE (Item # 11) \$0 (Computed Costs)

12. YEAR OF RIGHT-OF-WAY AUTHORIZATION

2015

SUB-TOTAL RIGHT-OF-WAY COSTS	(Computed Costs)	\$283,400	Totals
UTILITY COSTS TO RIGHT-OF-WAY PROJECT *		\$39,900	Include
TOTAL RIGHT-OF-WAY COSTS		\$323,300	Inflation

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

COMMENTS:

RW-238 Data :

Right-of-Way Estimate Date :

08/02/04

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		2	Rural	50%	\$16,000	\$8,000	\$0
G	Computed	RW					100%	\$0	\$0	\$0
H	Computed	RW	Three Phase		0	Urban	100%	\$0	\$0	\$0
I	Computed	RW					100%	\$0	\$0	\$0
J	Computed	RW					100%	\$0	\$0	\$0
								\$16,000	\$8,000	\$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		175	50%	\$29,750	\$14,875	\$0	
M	Computed	RW			0	100%	\$0	\$0	\$0	
N	Computed	RW				100%	\$0	\$0	\$0	
								\$29,750	\$14,875	\$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;">\$55,750</td> <td style="text-align: right;">\$27,875</td> <td style="text-align: right;">\$5,000</td> </tr> </table>	TOTAL ELECTRICAL	Total to RW Proj	Total to Const Proj	\$55,750	\$27,875	\$5,000
TOTAL ELECTRICAL	Total to RW Proj	Total to Const Proj								
\$55,750	\$27,875	\$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		0	50%	\$0	\$0	\$0
C	Computed	RW				100%	\$0	\$0	\$0
D	Computed	RW				100%	\$0	\$0	\$0
							\$0	\$0	\$0

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
							\$0	\$0	\$0

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
							\$0	\$0	\$0

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
							\$0	\$0	\$0

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
							\$0	\$0	\$0

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
							\$0	\$0	\$0

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"/>
BB	Misc. Telephone Costs Charged to Const. Project:	<input type="text"/>

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

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				100%	\$0	\$0	\$0
C	Computed	RW				100%	\$0	\$0	\$0
D	Computed	RW				100%	\$0	\$0	\$0
							\$0	\$0	\$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		0	100%	\$0	\$0	\$0
G	Computed	RW				100%	\$0	\$0	\$0
H	Computed	RW				100%	\$0	\$0	\$0
							\$0	\$0	\$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
							\$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
\$0	\$0	\$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		0	50%	\$0	\$0	\$0
C	Computed	Const				100%	\$0	\$0	\$0
D	Computed	Const				100%	\$0	\$0	\$0
							\$0	\$0	\$0

Misc. Water Costs

Misc. Water Costs Charged to Const. Project:

Misc. Water Costs Charged to RW Project:

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

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

Misc. Sewer Costs Charged to Const. Project:

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"/>			

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"/>			

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"/>			

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>	<input type="text"/>	\$28,000
TOTAL UTILITY COST - <u>CONSTRUCTION PROJECT</u>	<input type="text"/>	\$5,000
TOTAL UTILITY COST - <u>UTILITY OWNER / OTHERS</u>	<input type="text"/>	\$22,875
GRAND TOTAL UTILITY COSTS	<input type="text"/>	\$55,875



**Project Cost Estimating System
COMMENTS**



**General / Miscellaneous Comments from
CONST, RW, & UTILITY Worksheets:**

**Team Member
and Section:**

**Date
Entered:**

1	Cost Estimates are for comparative purposes with regards to Tier 1 Improvements and do not include all items that might be	Gannett Fleming	08/04/04
2	needed for final project construction, such as rehabilitation of existing pavement.		
3	Ad Date Changed to 2005	Gannett Fleming	05/26/05
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