

**Project Costs - Construction, Right of Way and Utilities (in millions)**

Construction Contract #	Segment Description	ALTERNATIVE E								ALTERNATIVE I							
		Construction					Right-of-Way with Inflation	Utilities with Inflation	Combined Construction, Right of Way and Utilities Total	Construction					Right-of-Way with Inflation	Utilities with Inflation	Combined Construction, Right of Way and Utilities Total
		Today's Cost with 25% Contingency	Mid-Year of Construction	Inflation Rate <sup>1</sup>	Inflation Costs	Total Const.				Today's Cost with 25% Contingency	Mid-Year of Construction	Inflation Rate <sup>1</sup>	Inflation Costs	Total Const.			
KY-2	Kyles Lane Bridge Replacement	\$7.2	7/16/18	46.50%	\$3.4	\$10.6	\$0.0	\$0.0	\$10.6	\$7.2	7/16/18	46.50%	\$3.4	\$10.6	\$0.0	\$0.0	\$10.6
KY-3	Dixie Highway Bridge Replacement	\$7.8	1/15/16	29.70%	\$2.3	\$10.1	\$0.0	\$0.0	\$10.1	\$7.8	1/15/16	29.70%	\$2.3	\$10.1	\$0.0	\$0.0	\$10.1
KY-5	I-75 Reconstruction from Mile Point 187.2 to Mile Point 189.5	\$71.5	1/14/20	57.60%	\$41.2	\$112.7	\$5.5	\$0.0	\$118.2	\$71.5	1/14/20	57.60%	\$41.2	\$112.7	\$5.5	\$0.0	\$118.2
KY-6	I-75 Reconstruction from Mile Point 189.5 to the South Termini of the 12 <sup>th</sup> Street Interchange	\$33.2	7/16/19	53.80%	\$17.9	\$51.1	\$4.2	\$0.0	\$55.3	\$33.2	7/16/19	53.80%	\$17.9	\$51.1	\$4.2	\$0.0	\$55.3
KY-7	I-75 Reconstruction from the South Termini of 12 <sup>th</sup> Street Interchange to the New Bridge over the Ohio River	\$273.6	1/14/20	57.60%	\$157.6	\$431.2	\$15.6	\$0.0	\$446.8	\$242.5	1/14/20	57.60%	\$139.7	\$382.2	\$10.5	\$0.0	\$392.7
OH-1	I-71/I-471 Ramp Modifications	\$4.6	7/16/14	20.50%	\$0.9	\$5.5	\$0.0	\$0.0	\$5.5	\$4.6	7/16/14	20.50%	\$0.9	\$5.5	\$0.0	\$0.0	\$5.5
OH-1A	I-71/I-471	\$1.7	5/31/22	76.60%	\$1.3	\$3.0	\$0.0	\$0.0	\$3.0	\$1.7	5/31/22	76.60%	\$1.3	\$3.0	\$0.0	\$0.0	\$3.0
OH-2	Linn Street Bridge Replacement and Gest Street reconstruction	\$12.3	12/8/15	29.20%	\$3.6	\$15.9	\$0.1	\$0.8	\$16.8	\$10.8	12/8/15	29.20%	\$3.1	\$13.9	\$0.02	\$0.8	\$14.7
OH-3	Ezzard Charles Drive Bridge Replacement; Western Avenue Reconstruction; Freeman Avenue Interchange Reconstruction; Winchell Street Reconstruction; and the Court Street Cul-de-sac, 9th St Entrance Ramp Construction	\$23.3	7/16/16	32.90%	\$7.6	\$30.9	\$0.03	\$0.2	\$31.1	\$23.0	7/16/16	32.90%	\$7.5	\$30.5	\$0.04	\$0.2	\$30.7
OH-4	7 <sup>th</sup> /8 <sup>th</sup> /9 <sup>th</sup> Street Interchange, 6th St North Reconstruction	\$40.6	7/16/16	32.90%	\$13.3	\$53.9	\$7.8	\$0.0	\$61.7	\$30.0	7/16/16	32.90%	\$9.8	\$39.8	\$4.6	\$0.0	\$44.4
OH-5	Western Hills Viaduct Interchange Reconstruction from Findlay Street to the northern terminus of the corridor	\$160.1	3/2/19	51.30%	\$82.1	\$242.2	\$4.6	\$0.2	\$247.0	\$84.9	3/2/19	51.30%	\$43.5	\$128.4	\$1.3	\$0.2	\$129.9
OH-6	I-75 Reconstruction from North of Linn Street to Findlay Street	\$24.8	1/15/20	57.60%	\$14.3	\$39.1	\$0.0	\$2.2	\$41.3	\$31.5	1/15/20	57.60%	\$18.1	\$49.6	\$0.0	\$2.2	\$51.8
OH-7	I-75 Reconstruction from the New Bridge over the Ohio River to North of Linn Street	\$411.5	1/14/20	57.60%	\$237.0	\$648.5	\$13.4	\$89.7	\$751.6	\$373.1	1/14/20	57.60%	\$214.9	\$588.0	\$13.7	\$89.7	\$691.4
KY-4	New Ohio River Bridge - Alternative 1	\$414.8	6/1/17	37.60%	\$155.9	\$570.7	\$0.0	\$0.0	\$570.7	\$414.8	6/1/17	37.60%	\$155.9	\$570.7	\$0.0	\$0.0	\$570.7
	New Ohio River Bridge - Alternative 3	\$474.2	1/1/18	41.00%	\$194.4	\$668.6	\$0.0	\$0.0	\$668.6	\$474.2	1/1/18	41.00%	\$194.4	\$668.6	\$0.0	\$0.0	\$668.6
	New Ohio River Bridge - Alternative 6	\$458.5	1/1/18	41.00%	\$187.8	\$646.3	\$0.0	\$0.0	\$646.3	\$458.5	1/1/18	41.00%	\$187.8	\$646.3	\$0.0	\$0.0	\$646.3
KY-8	Rehabilitation of the Existing Brent Spence Bridge	\$40.6	1/14/21	65.50%	\$26.5	\$67.1	\$0.0	\$0.0	\$67.1	\$40.6	1/14/21	65.50%	\$26.5	\$67.1	\$0.0	\$0.0	\$67.1

1. Based on mid year of anticipated construction duration

## Estimate Alt E KY cont 2

Estimated Cost: \$7,209,761.51

Contingency: 46.50%

**Estimated Total: \$10,562,300.61**

Base Date: 01/01/15

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District:

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	2,373.00	SY	\$8.00000	\$18,984.00

Total for Group 0001: \$18,984.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1,104.00	CY	\$30.00000	\$33,120.00
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Total for Group 0002: \$33,120.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	9,936.00	CY	\$8.00000	\$79,488.00

Total for Group 0003: \$79,488.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	11,040.00	CY	\$6.00000	\$66,240.00

Total for Group 0005: \$66,240.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$8.00000	\$0.00
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Total for Group 0007: \$0.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	0.00	FT	\$110.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<u>Description</u>				
	<u>Supplemental Description</u>				

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$0.00

## Group 0009: Subgrade Treatment - Lime

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

## Group 0010: Subgrade Treatment - Cement

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	3,309.00	SY	\$2.50000	\$8,272.50
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Total for Group 0010: \$8,272.50

## Group 0011: Subgrade Treatment - Undercut &amp; Backfill

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

## Group 0012: Other Roadway Costs

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0028	202E35200 PIPE REMOVED, OVER 24"	0.00	FT		\$0.00
0029	202E38000 GUARDRAIL REMOVED	0.00	FT		\$0.00
0030	202E42206 ANCHOR ASSEMBLY REMOVED	0.00	EACH		\$0.00
0031	202E58000 MANHOLE REMOVED	0.00	EACH		\$0.00
0032	202E58100 CATCH BASIN REMOVED	0.00	EACH		\$0.00
0033	202E75000 FENCE REMOVED	0.00	FT		\$0.00
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>PROOF ROLLING</b>				
0035	204E10000	0.00	SY	\$0.81000	\$0.00
	SUBGRADE COMPACTION				
0036	451E30000	0.00	FT		\$0.00
	SPECIAL - PRESSURE RELIEF JOINT, TYPE A				
0037	606E13000	0.00	FT	\$14.00000	\$0.00
	GUARDRAIL, TYPE 5				
0038	606E22000	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE B-98				
0039	606E22010	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE E-98				
0040	606E26500	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE T				
0041	606E35000	0.00	EACH		\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 1				
0042	606E35100	0.00	EACH		\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 2				
0043	606E60010	0.00	EACH		\$0.00
	IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)				
0044	607E15000	0.00	FT		\$0.00
	FENCE, TYPE 47				
	<i>For Fencing</i>				
0423	304E20000	0.00	CY		\$0.00
	AGGREGATE BASE				
	<i>For Fencing</i>				
0424	601E32100	0.00	CY		\$0.00
	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER				
	<i>For Fencing</i>				
0425	607E40500	0.00	EACH		\$0.00
	GATE, TYPE 47				
	<i>For Fencing</i>				
0426	625E32000	0.00	EACH		\$0.00
	GROUND ROD				
	<i>For Fencing</i>				
0466		0.00		\$0.00000	\$0.00
<b>Total for Group 0012: \$0.00</b>					

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0467	659E10000	1,328.00	SY	\$1.00000	\$1,328.00
	SEEDING AND MULCHING				
0531	660E25000	0.00	SY	\$15.00000	\$0.00
	SODDING STAKED				
<b>Total for Group 0014: \$1,328.00</b>					

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0469	601E32000	24.00	CY	\$75.00000	\$1,800.00
	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER				
<b>Total for Group 0015: \$1,800.00</b>					

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<b>MAJOR COST DRIVERS, EROSION CONTROL</b>					
0470	832E10000	1.00	LS	\$20,000.00000	\$20,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0471	832E20000	3,000.00	EACH	\$1.00000	\$3,000.00
EROSION CONTROL					
				<b>Total for Group 0016:</b>	<b>\$23,000.00</b>

**Group 0017: Other Erosion Control Costs**

0049	670E00700	0.00	SY		\$0.00
DITCH EROSION PROTECTION					
0050	B-OC-ERCO	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, EROSION CONTROL					
0051	659E00100	0.00	EACH	\$0.00000	\$0.00
SOIL ANALYSIS TEST					
0052	659E00300	0.00	CY		\$0.00
TOPSOIL					
0053	659E14000	0.00	SY		\$0.00
REPAIR SEEDING AND MULCHING					
0054	659E15000	0.00	SY	\$0.71000	\$0.00
INTER-SEEDING					
0055	659E20000	0.00	TON		\$0.00
COMMERCIAL FERTILIZER					
0056	659E31000	0.00	ACRE	\$0.00000	\$0.00
LIME					
0057	659E35000	0.00	MGAL	\$5.00000	\$0.00
WATER					
0058	659E40000	0.00	MSF	\$0.00000	\$0.00
MOWING					
				<b>Total for Group 0017:</b>	<b>\$0.00</b>

**Group 0018: Underdrains**

0059	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0062	605E05100	1,223.00	FT	\$8.00000	\$9,784.00
4" SHALLOW PIPE UNDERDRAINS					
				<b>Total for Group 0018:</b>	<b>\$9,784.00</b>

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0480	C-MC-DRNG	0.00	FT	\$350.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>					
0481	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					
				<b>Total for Group 0019:</b>	<b>\$0.00</b>

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0476	C-MC-DRNG	0.00	FT	\$550.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"*

0477	C-MC-DRNG	0.00	EACH	\$2,000.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete - Headwalls/wingwalls</i>					

Total for Group 0021: \$0.00

**Group 0022: Culverts, Type A: 10' - 20'**

0486	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0487	C-MC-DRNG	0.00	FT	\$1,400.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>					

0488	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0022: \$0.00

**Group 0024: BMP's**

0076	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

Total for Group 0024: \$0.00

**Group 0025: Closed Storm System**

0077	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0489	603E13400	190.00	FT	\$75.00000	\$14,250.00
30" CONDUIT, TYPE B (Average size)					

0523	604E00800	4.00	EACH	\$1,500.00000	\$6,000.00
CATCH BASIN, NO. 3A					

0524	604E31500	0.00	EACH	\$3,000.00000	\$0.00
MANHOLE, NO. 3					

0525	604E36601	2.00	EACH	\$1,250.00000	\$2,500.00
PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN					

0526	Special	0.00	LS	\$6,400,000.00000	\$0.00
Pump Station (Storm)					

0527	Special	0.00	EACH	\$5,750.00000	\$0.00
Stormceptors					

0529	Special	0.00	LS	\$109,000.00000	\$0.00
Retention basin improvements					

Total for Group 0025: \$22,750.00

**Group 0026: Other Drainage Costs**

0078	C-OC-DRNG	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, DRAINAGE					

Total for Group 0026: \$0.00

**Group 0027: Mainline - Travel Lanes**

0095	D-MC-PVMT	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT					

0494	D-MC-PVMT	0.00	SY	\$68.00000	\$0.00
13" Reinforced Concrete Pavement					
<i>Includes 6" Agg Base and Subgrade Compaction</i>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0027: \$0.00

**Group 0028: Mainline - Outside Shoulder**

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0028: \$0.00

**Group 0030: Mainline - Inside Shoulder**

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0030: \$0.00

**Group 0031: Ramps (including shoulders)**

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0031: \$0.00

**Group 0032: Non - Mainline Lanes**

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	3,309.00	SY	\$41.00000	\$135,669.00

Total for Group 0032: \$135,669.00

**Group 0041: Other Pavement Costs**

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

**Group 0042: Water Works**

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

**Group 0043: Sanitary Line**

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0043: \$0.00

Group 0044: Lighting - Full Interchange

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	EACH	\$469,000.00000	\$0.00

Total for Group 0044: \$0.00

Group 0045: Lighting - Partial Interchange

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

Group 0046: Lighting - Continuous Roadway

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	1,510.00	FT	\$35.00000	\$52,850.00

Total for Group 0046: \$52,850.00

Group 0047: Other Lighting Costs

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

Group 0048: Traffic Surveillance

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	0.00	LS	\$0.00000	\$0.00
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Total for Group 0048: \$0.00

Group 0049: Signs

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	0.29	MILE	\$250,000.00000	\$72,500.00

Total for Group 0049: \$72,500.00

Group 0050: Pavement Marking

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	0.11	MILE	\$3,000.00000	\$330.00
0503	644E00200 LANE LINE	0.16	MILE	\$2,000.00000	\$320.00

Total for Group 0050: \$650.00

Group 0051: Other Traffic Control Costs

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00

Total for Group 0051: \$0.00

**Group 0052: Signals - Intersections**

0212	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS	2.00	EACH	\$175,000.00000	\$350,000.00
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Total for Group 0052: \$350,000.00

**Group 0053: Other Traffic Signal Costs**

0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0053: \$0.00

**Group 0054: Landscaping**

0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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Total for Group 0054: \$0.00

**Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing**

0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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0504	M-MC-WALL Retaining Walls	0.00	SF	\$135.00000	\$0.00
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Total for Group 0055: \$0.00

**Group 0056: Other Retaining Wall Costs**

0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0056: \$0.00

**Group 0057: Building Demolition**

0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0533	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Commercial</i>	0.00	EACH	\$30,000.00000	\$0.00
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0534	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	0.00	EACH	\$15,000.00000	\$0.00
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0535	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Residential</i>	0.00	EACH	\$12,000.00000	\$0.00
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0536	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Residential</i>	0.00	EACH	\$7,500.00000	\$0.00
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0537	202E98100	0.00	EACH	\$8,500.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
REMOVAL MISC.: Radio Tower					
Total for Group 0057:					\$0.00
<b>Group 0058: Noise Barrier</b>					
0220	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0505	P-MC-NSBR Noise Barrier	0.00	LS	\$400.00000	\$0.00
Total for Group 0058:					\$0.00
<b>Group 0059: Other Noise Barrier Costs</b>					
0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00
Total for Group 0059:					\$0.00
<b>Group 0060: New Structures</b>					
0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	31,313.00	SF	\$125.00000	\$3,914,125.00
0507	R-MC-STRC Removal of Existing Structures non-complex	0.00	SF	\$12.00000	\$0.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	24,939.00	SF	\$17.00000	\$423,963.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	0.00	SF	\$30.00000	\$0.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	0.00	SF	\$150.00000	\$0.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	0.00	SF	\$200.00000	\$0.00
Total for Group 0060:					\$4,338,088.00
<b>Group 0061: Rehabilitated Structures</b>					
0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	0.00	SF	\$45.00000	\$0.00
Total for Group 0061:					\$0.00
<b>Group 0062: Other Structure Costs</b>					
0224	R-OC-STRC OTHER COSTS, STRUCTURES Contingency	0.00	LS	\$0.00000	\$0.00
Total for Group 0062:					\$0.00
<b>Group 0063: Temporary Road and Pavement Costs</b>					
0225	S-MC-MNTC MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	1.00	LS	\$0.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
Total for Group 0063:					\$0.00
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0064:					\$0.00
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0065:					\$0.00
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0066:					\$0.00
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0067:					\$0.00
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0068:					\$0.00
<b>Group 0069: Innovative Contracting Incentatives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0069:					\$0.00
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	0.29	MILE	\$500,000.00000	\$145,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
Total for Group 0070:					\$145,000.00
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
Total for Group 0071:					\$0.00
<b>Group 0072: Misc. Costs</b>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b>Supplemental Description</b>				
0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	0.00	LS	\$10,000.00000	\$0.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$26,797.62000	\$26,797.62
0239	614E11000 MAINTAINING TRAFFIC 2%	1.00	LS	\$107,190.47000	\$107,190.47
0240	619E16020 FIELD OFFICE, TYPE C	19.00	MNTH	\$2,500.00000	\$47,500.00
0242	624E10000 MOBILIZATION	1.00	LS	\$200,000.00000	\$200,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$26,797.62000	\$26,797.62
0518		0.00		\$0.00000	\$0.00
0519		0.00		\$0.00000	\$0.00
0520		0.00		\$0.00000	\$0.00
0521		0.00		\$0.00000	\$0.00
0532		0.00		\$0.00000	\$0.00
<b>Total for Group 0072:</b>					<b>\$408,285.71</b>

**Group 0073: Design Contingency Costs**

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS 25%	1.00	LS	\$1,441,952.30000	\$1,441,952.30

**Total for Group 0073: \$1,441,952.30**

**Group 0074: Inflation Contingency**

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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**Total for Group 0074: \$0.00**

## Estimate Alt E KY cont 3

Estimated Cost: \$7,818,842.99

Contingency: 29.70%

**Estimated Total: \$10,141,039.36**

Base Date: 01/01/15

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District:

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	2,006.00	SY	\$8.00000	\$16,048.00

Total for Group 0001: \$16,048.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1,960.00	CY	\$30.00000	\$58,800.00
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Total for Group 0002: \$58,800.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	17,640.00	CY	\$8.00000	\$141,120.00

Total for Group 0003: \$141,120.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	19,600.00	CY	\$6.00000	\$117,600.00

Total for Group 0005: \$117,600.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$8.00000	\$0.00
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Total for Group 0007: \$0.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	0.00	FT	\$110.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$0.00

**Group 0009: Subgrade Treatment - Lime**

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

**Group 0010: Subgrade Treatment - Cement**

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	533.00	SY	\$2.50000	\$1,332.50
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Total for Group 0010: \$1,332.50

**Group 0011: Subgrade Treatment - Undercut & Backfill**

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

**Group 0012: Other Roadway Costs**

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0028	202E35200 PIPE REMOVED, OVER 24"	0.00	FT		\$0.00
0029	202E38000 GUARDRAIL REMOVED	0.00	FT		\$0.00
0030	202E42206 ANCHOR ASSEMBLY REMOVED	0.00	EACH		\$0.00
0031	202E58000 MANHOLE REMOVED	0.00	EACH		\$0.00
0032	202E58100 CATCH BASIN REMOVED	0.00	EACH		\$0.00
0033	202E75000 FENCE REMOVED	0.00	FT		\$0.00
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>PROOF ROLLING</b>				
0035	204E10000	0.00	SY	\$0.81000	\$0.00
	SUBGRADE COMPACTION				
0036	451E30000	0.00	FT		\$0.00
	SPECIAL - PRESSURE RELIEF JOINT, TYPE A				
0037	606E13000	0.00	FT	\$14.00000	\$0.00
	GUARDRAIL, TYPE 5				
0038	606E22000	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE B-98				
0039	606E22010	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE E-98				
0040	606E26500	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE T				
0041	606E35000	0.00	EACH		\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 1				
0042	606E35100	0.00	EACH		\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 2				
0043	606E60010	0.00	EACH		\$0.00
	IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)				
0044	607E15000	0.00	FT		\$0.00
	FENCE, TYPE 47				
	<i>For Fencing</i>				
0423	304E20000	0.00	CY		\$0.00
	AGGREGATE BASE				
	<i>For Fencing</i>				
0424	601E32100	0.00	CY		\$0.00
	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER				
	<i>For Fencing</i>				
0425	607E40500	0.00	EACH		\$0.00
	GATE, TYPE 47				
	<i>For Fencing</i>				
0426	625E32000	0.00	EACH		\$0.00
	GROUND ROD				
	<i>For Fencing</i>				
0466		0.00		\$0.00000	\$0.00
<b>Total for Group 0012: \$0.00</b>					

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0467	659E10000	0.00	SY	\$1.00000	\$0.00
	SEEDING AND MULCHING				
0531	660E25000	0.00	SY	\$15.00000	\$0.00
	SODDING STAKED				
<b>Total for Group 0014: \$0.00</b>					

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0469	601E32000	0.00	CY	\$75.00000	\$0.00
	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER				
<b>Total for Group 0015: \$0.00</b>					

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<b>MAJOR COST DRIVERS, EROSION CONTROL</b>					
0470	832E10000	1.00	LS	\$20,000.00000	\$20,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0471	832E20000	10,000.00	EACH	\$1.00000	\$10,000.00
EROSION CONTROL					
				<b>Total for Group 0016: \$30,000.00</b>	

**Group 0017: Other Erosion Control Costs**

0049	670E00700	0.00	SY		\$0.00
DITCH EROSION PROTECTION					
0050	B-OC-ERCO	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, EROSION CONTROL					
0051	659E00100	0.00	EACH	\$0.00000	\$0.00
SOIL ANALYSIS TEST					
0052	659E00300	0.00	CY		\$0.00
TOPSOIL					
0053	659E14000	0.00	SY		\$0.00
REPAIR SEEDING AND MULCHING					
0054	659E15000	0.00	SY	\$0.71000	\$0.00
INTER-SEEDING					
0055	659E20000	0.00	TON		\$0.00
COMMERCIAL FERTILIZER					
0056	659E31000	0.00	ACRE	\$0.00000	\$0.00
LIME					
0057	659E35000	0.00	MGAL	\$5.00000	\$0.00
WATER					
0058	659E40000	0.00	MSF	\$0.00000	\$0.00
MOWING					
				<b>Total for Group 0017: \$0.00</b>	

**Group 0018: Underdrains**

0059	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0062	605E05100	0.00	FT	\$8.00000	\$0.00
4" SHALLOW PIPE UNDERDRAINS					
				<b>Total for Group 0018: \$0.00</b>	

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0480	C-MC-DRNG	0.00	FT	\$350.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>					
0481	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					
				<b>Total for Group 0019: \$0.00</b>	

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0476	C-MC-DRNG	0.00	FT	\$550.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b><u>Supplemental Description</u></b>				
	<i>Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"</i>				
0477	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE <i>Concrete - Headwalls/wingwalls</i>	0.00	EACH	\$2,000.00000	\$0.00

Total for Group 0021: \$0.00

Group 0022: Culverts, Type A: 10' - 20'

0486	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
0487	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE <i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>	0.00	FT	\$1,400.00000	\$0.00
0488	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE <i>Concrete Masonry</i>	0.00	EACH	\$1,500.00000	\$0.00

Total for Group 0022: \$0.00

Group 0024: BMP's

0076	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
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Total for Group 0024: \$0.00

Group 0025: Closed Storm System

0077	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
0489	603E13400 30" CONDUIT, TYPE B (Average size)	0.00	FT	\$75.00000	\$0.00
0523	604E00800 CATCH BASIN, NO. 3A	0.00	EACH	\$1,500.00000	\$0.00
0524	604E31500 MANHOLE, NO. 3	0.00	EACH	\$3,000.00000	\$0.00
0525		0.00		\$0.00000	\$0.00
0526	Special Pump Station (Storm)	0.00	LS	\$6,400,000.00000	\$0.00
0527	Special Stormceptors	0.00	EACH	\$5,750.00000	\$0.00
0529	Special Retention basin improvements	0.00	LS	\$109,000.00000	\$0.00

Total for Group 0025: \$0.00

Group 0026: Other Drainage Costs

0078	C-OC-DRNG OTHER COSTS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
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Total for Group 0026: \$0.00

Group 0027: Mainline - Travel Lanes

0095	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0494	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg Base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0027: \$0.00

**Group 0028: Mainline - Outside Shoulder**

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0028: \$0.00

**Group 0030: Mainline - Inside Shoulder**

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0030: \$0.00

**Group 0031: Ramps (including shoulders)**

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0031: \$0.00

**Group 0032: Non - Mainline Lanes**

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	533.00	SY	\$41.00000	\$21,853.00

Total for Group 0032: \$21,853.00

**Group 0041: Other Pavement Costs**

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

**Group 0042: Water Works**

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

**Group 0043: Sanitary Line**

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0043: \$0.00

Group 0044: Lighting - Full Interchange

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	EACH	\$469,000.00000	\$0.00

Total for Group 0044: \$0.00

Group 0045: Lighting - Partial Interchange

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

Group 0046: Lighting - Continuous Roadway

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	840.00	FT	\$35.00000	\$29,400.00

Total for Group 0046: \$29,400.00

Group 0047: Other Lighting Costs

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

Group 0048: Traffic Surveillance

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	0.00	LS	\$0.00000	\$0.00
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Total for Group 0048: \$0.00

Group 0049: Signs

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	0.16	MILE	\$250,000.00000	\$40,000.00

Total for Group 0049: \$40,000.00

Group 0050: Pavement Marking

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	0.18	MILE	\$3,000.00000	\$540.00
0503	644E00200 LANE LINE	0.13	MILE	\$2,000.00000	\$260.00

Total for Group 0050: \$800.00

Group 0051: Other Traffic Control Costs

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00

Total for Group 0051: \$0.00

**Group 0052: Signals - Intersections**

0212	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS	2.00	EACH	\$175,000.00000	\$350,000.00
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Total for Group 0052: \$350,000.00

**Group 0053: Other Traffic Signal Costs**

0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0053: \$0.00

**Group 0054: Landscaping**

0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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Total for Group 0054: \$0.00

**Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing**

0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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0504	M-MC-WALL Retaining Walls	0.00	SF	\$135.00000	\$0.00
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Total for Group 0055: \$0.00

**Group 0056: Other Retaining Wall Costs**

0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0056: \$0.00

**Group 0057: Building Demolition**

0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0532	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Commercial</i>	0.00	EACH	\$30,000.00000	\$0.00
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0533	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	0.00	EACH	\$15,000.00000	\$0.00
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0534	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Residential</i>	0.00	EACH	\$12,000.00000	\$0.00
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0535	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Residential</i>	0.00	EACH	\$7,500.00000	\$0.00
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0536	202E98100	0.00	EACH	\$8,500.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
REMOVAL MISC.: Radio Tower					
Total for Group 0057:					\$0.00
<b>Group 0058: Noise Barrier</b>					
0220	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0505	P-MC-NSBR Noise Barrier	0.00	LS	\$400.00000	\$0.00
Total for Group 0058:					\$0.00
<b>Group 0059: Other Noise Barrier Costs</b>					
0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00
Total for Group 0059:					\$0.00
<b>Group 0060: New Structures</b>					
0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	0.00	SF	\$125.00000	\$0.00
0507	R-MC-STRC Removal of Existing Structures non-complex	0.00	SF	\$12.00000	\$0.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	17,629.00	SF	\$17.00000	\$299,693.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	0.00	SF	\$30.00000	\$0.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	30,973.00	SF	\$150.00000	\$4,645,950.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	0.00	SF	\$200.00000	\$0.00
Total for Group 0060:					\$4,945,643.00
<b>Group 0061: Rehabilitated Structures</b>					
0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	0.00	SF	\$45.00000	\$0.00
Total for Group 0061:					\$0.00
<b>Group 0062: Other Structure Costs</b>					
0224	R-OC-STRC OTHER COSTS, STRUCTURES Contingency	0.00	LS	\$0.00000	\$0.00
Total for Group 0062:					\$0.00
<b>Group 0063: Temporary Road and Pavement Costs</b>					
0225	S-MC-MNTC MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	1.00	LS	\$0.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
Total for Group 0063:					\$0.00
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0064:					\$0.00
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0065:					\$0.00
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0066:					\$0.00
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0067:					\$0.00
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0068:					\$0.00
<b>Group 0069: Innovative Contracting Incentatives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0069:					\$0.00
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	0.16	MILE	\$500,000.00000	\$80,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
Total for Group 0070:					\$80,000.00
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
Total for Group 0071:					\$0.00
<b>Group 0072: Misc. Costs</b>					



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b><u>Supplemental Description</u></b>				
0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	0.00	LS	\$10,000.00000	\$0.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$29,162.98000	\$29,162.98
0239	614E11000 MAINTAINING TRAFFIC 2%	1.00	LS	\$116,651.93000	\$116,651.93
0240	619E16020 FIELD OFFICE, TYPE C	19.00	MNTH	\$2,500.00000	\$47,500.00
0242	624E10000 MOBILIZATION	1.00	LS	\$200,000.00000	\$200,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$29,162.98000	\$29,162.98
0518		0.00		\$0.00000	\$0.00
0519		0.00		\$0.00000	\$0.00
0520		0.00		\$0.00000	\$0.00
0521		0.00		\$0.00000	\$0.00

Total for Group 0072: \$422,477.89

**Group 0073: Design Contingency Costs**

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS 25%	1.00	LS	\$1,563,768.60000	\$1,563,768.60

Total for Group 0073: \$1,563,768.60

**Group 0074: Inflation Contingency**

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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Total for Group 0074: \$0.00

## Estimate Alt E KY cont 5

Estimated Cost: \$71,530,905.30

Contingency: 57.60%

**Estimated Total: \$112,732,706.75**

Base Date: 01/01/15

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District:

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	212,051.00	SY	\$8.00000	\$1,696,408.00

Total for Group 0001: \$1,696,408.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	146,868.00	CY	\$30.00000	\$4,406,040.00
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Total for Group 0002: \$4,406,040.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	342,692.00	CY	\$8.00000	\$2,741,536.00

Total for Group 0003: \$2,741,536.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	489,560.00	CY	\$6.00000	\$2,937,360.00

Total for Group 0005: \$2,937,360.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$8.00000	\$0.00
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Total for Group 0007: \$0.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	20,800.00	FT	\$110.00000	\$2,288,000.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$2,288,000.00

**Group 0009: Subgrade Treatment - Lime**

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

**Group 0010: Subgrade Treatment - Cement**

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	298,491.00	SY	\$2.50000	\$746,227.50
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Total for Group 0010: \$746,227.50

**Group 0011: Subgrade Treatment - Undercut & Backfill**

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

**Group 0012: Other Roadway Costs**

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0028	202E35200 PIPE REMOVED, OVER 24"	0.00	FT		\$0.00
0029	202E38000 GUARDRAIL REMOVED	0.00	FT		\$0.00
0030	202E42206 ANCHOR ASSEMBLY REMOVED	0.00	EACH		\$0.00
0031	202E58000 MANHOLE REMOVED	0.00	EACH		\$0.00
0032	202E58100 CATCH BASIN REMOVED	0.00	EACH		\$0.00
0033	202E75000 FENCE REMOVED	0.00	FT		\$0.00
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>PROOF ROLLING</b>				
0035	204E10000	0.00	SY	\$0.81000	\$0.00
	SUBGRADE COMPACTION				
0036	451E30000	0.00	FT		\$0.00
	SPECIAL - PRESSURE RELIEF JOINT, TYPE A				
0037	606E13000	5,300.00	FT	\$14.00000	\$74,200.00
	GUARDRAIL, TYPE 5				
0038	606E22000	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE B-98				
0039	606E22010	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE E-98				
0040	606E26500	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE T				
0041	606E35000	0.00	EACH		\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 1				
0042	606E35100	0.00	EACH		\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 2				
0043	606E60010	0.00	EACH		\$0.00
	IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)				
0044	607E15000	0.00	FT		\$0.00
	FENCE, TYPE 47				
	<i>For Fencing</i>				
0423	304E20000	0.00	CY		\$0.00
	AGGREGATE BASE				
	<i>For Fencing</i>				
0424	601E32100	0.00	CY		\$0.00
	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER				
	<i>For Fencing</i>				
0425	607E40500	0.00	EACH		\$0.00
	GATE, TYPE 47				
	<i>For Fencing</i>				
0426	625E32000	0.00	EACH		\$0.00
	GROUND ROD				
	<i>For Fencing</i>				
0466		0.00		\$0.00000	\$0.00

Total for Group 0012: \$74,200.00

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0467	659E10000	133,774.00	SY	\$1.00000	\$133,774.00
	SEEDING AND MULCHING				
0531	660E25000	0.00	SY	\$15.00000	\$0.00
	SODDING STAKED				

Total for Group 0014: \$133,774.00

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0469	601E32000	192.00	CY	\$75.00000	\$14,400.00
	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER				

Total for Group 0015: \$14,400.00

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<b>MAJOR COST DRIVERS, EROSION CONTROL</b>					
0470	832E10000	1.00	LS	\$50,000.00000	\$50,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0471	832E20000	300,000.00	EACH	\$1.00000	\$300,000.00
EROSION CONTROL					

Total for Group 0016: \$350,000.00

**Group 0017: Other Erosion Control Costs**

0049	670E00700	0.00	SY		\$0.00
DITCH EROSION PROTECTION					
0050	B-OC-ERCO	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, EROSION CONTROL					
0051	659E00100	0.00	EACH	\$0.00000	\$0.00
SOIL ANALYSIS TEST					
0052	659E00300	0.00	CY		\$0.00
TOPSOIL					
0053	659E14000	0.00	SY		\$0.00
REPAIR SEEDING AND MULCHING					
0054	659E15000	0.00	SY	\$0.71000	\$0.00
INTER-SEEDING					
0055	659E20000	0.00	TON		\$0.00
COMMERCIAL FERTILIZER					
0056	659E31000	0.00	ACRE	\$0.00000	\$0.00
LIME					
0057	659E35000	0.00	MGAL	\$5.00000	\$0.00
WATER					
0058	659E40000	0.00	MSF	\$0.00000	\$0.00
MOWING					

Total for Group 0017: \$0.00

**Group 0018: Underdrains**

0059	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0062	605E05100	29,635.00	FT	\$8.00000	\$237,080.00
4" SHALLOW PIPE UNDERDRAINS					

Total for Group 0018: \$237,080.00

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0480	C-MC-DRNG	86.00	FT	\$350.00000	\$30,100.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>					
0481	C-MC-DRNG	2.00	EACH	\$1,500.00000	\$3,000.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0019: \$33,100.00

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0476	C-MC-DRNG	36.00	FT	\$550.00000	\$19,800.00
MAJOR COST DRIVERS, DRAINAGE					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"*

0477	C-MC-DRNG	1.00	EACH	\$2,000.00000	\$2,000.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete - Headwalls/wingwalls</i>					

Total for Group 0021: \$21,800.00

Group 0022: Culverts, Type A: 10' - 20'

0486	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0487	C-MC-DRNG	0.00	FT	\$1,400.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>					

0488	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0022: \$0.00

Group 0024: BMP's

0076	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

Total for Group 0024: \$0.00

Group 0025: Closed Storm System

0077	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0489	603E13400	11,994.00	FT	\$75.00000	\$899,550.00
30" CONDUIT, TYPE B (Average size)					

0523	604E00800	84.00	EACH	\$1,500.00000	\$126,000.00
CATCH BASIN, NO. 3A					

0524	604E31500	20.00	EACH	\$3,000.00000	\$60,000.00
MANHOLE, NO. 3					

0525	604E36601	13.00	EACH	\$1,250.00000	\$16,250.00
PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN					

0526	Special	0.00	LS	\$6,400,000.00000	\$0.00
Pump Station (Storm)					

0527	Special	0.00	EACH	\$5,750.00000	\$0.00
Stormceptors					

0529	Special	0.00	LS	\$109,000.00000	\$0.00
Retention basin improvements					

Total for Group 0025: \$1,101,800.00

Group 0026: Other Drainage Costs

0078	C-OC-DRNG	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, DRAINAGE					

Total for Group 0026: \$0.00

Group 0027: Mainline - Travel Lanes

0095	D-MC-PVMT	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT					

0494	D-MC-PVMT	171,479.00	SY	\$68.00000	\$11,660,572.00
13" Reinforced Concrete Pavement					
<i>Includes 6" Agg Base and Subgrade Compaction</i>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0027: \$11,660,572.00

**Group 0028: Mainline - Outside Shoulder**

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	38,883.00	SY	\$68.00000	\$2,644,044.00

Total for Group 0028: \$2,644,044.00

**Group 0030: Mainline - Inside Shoulder**

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	38,377.00	SY	\$68.00000	\$2,609,636.00

Total for Group 0030: \$2,609,636.00

**Group 0031: Non - Mainline Lanes**

0532	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0533	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	3,441.00	SY	\$41.00000	\$141,081.00

Total for Group 0031: \$141,081.00

**Group 0036: Ramps (including shoulders)**

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	46,310.00	SY	\$68.00000	\$3,149,080.00

Total for Group 0036: \$3,149,080.00

**Group 0041: Other Pavement Costs**

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

**Group 0042: Water Works**

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

**Group 0043: Sanitary Line**

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0043: \$0.00

Group 0044: Lighting - Full Interchange

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	2.00	EACH	\$469,000.00000	\$938,000.00

Total for Group 0044: \$938,000.00

Group 0045: Lighting - Partial Interchange

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

Group 0046: Lighting - Continuous Roadway

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	13,415.00	FT	\$35.00000	\$469,525.00

Total for Group 0046: \$469,525.00

Group 0047: Other Lighting Costs

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

Group 0048: Traffic Surveillance

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	1.00	LS	\$537,486.54000	\$537,486.54
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Total for Group 0048: \$537,486.54

Group 0049: Signs

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	2.54	MILE	\$250,000.00000	\$635,000.00

Total for Group 0049: \$635,000.00

Group 0050: Pavement Marking

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	18.30	MILE	\$3,000.00000	\$54,900.00
0503	644E00200 LANE LINE	17.93	MILE	\$2,000.00000	\$35,860.00

Total for Group 0050: \$90,760.00

Group 0051: Other Traffic Control Costs

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
<b>Total for Group 0051: \$0.00</b>					
<b>Group 0052: Signals - Intersections</b>					
0212	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS	1.00	LS	\$0.00000	\$0.00
<b>Total for Group 0052: \$0.00</b>					
<b>Group 0053: Other Traffic Signal Costs</b>					
0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
<b>Total for Group 0053: \$0.00</b>					
<b>Group 0054: Landscaping</b>					
0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
<b>Total for Group 0054: \$0.00</b>					
<b>Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing</b>					
0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
0504	M-MC-WALL Retaining Walls	8,870.00	SF	\$135.00000	\$1,197,450.00
<b>Total for Group 0055: \$1,197,450.00</b>					
<b>Group 0056: Other Retaining Wall Costs</b>					
0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
<b>Total for Group 0056: \$0.00</b>					
<b>Group 0057: Building Demolition</b>					
0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
0534	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Residential</i>	3.00	EACH	\$7,500.00000	\$22,500.00
0535	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Residential</i>	2.00	EACH	\$12,000.00000	\$24,000.00
0536	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	0.00	EACH	\$15,000.00000	\$0.00
0537	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Commercial</i>	1.00	EACH	\$30,000.00000	\$30,000.00
0538	202E98100	0.00	EACH	\$8,500.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

REMOVAL MISC.:  
Radio Tower

Total for Group 0057: \$76,500.00

**Group 0058: Noise Barrier**

0220	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0505	P-MC-NSBR Noise Barrier	58,304.00	SF	\$25.00000	\$1,457,600.00

Total for Group 0058: \$1,457,600.00

**Group 0059: Other Noise Barrier Costs**

0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00

Total for Group 0059: \$0.00

**Group 0060: New Structures**

0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	77,961.00	SF	\$125.00000	\$9,745,125.00
0507	R-MC-STRC Removal of Existing Structures non-complex	0.00	SF	\$12.00000	\$0.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	51,915.00	SF	\$17.00000	\$882,555.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	0.00	SF	\$30.00000	\$0.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	0.00	SF	\$150.00000	\$0.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	0.00	SF	\$200.00000	\$0.00

Total for Group 0060: \$10,627,680.00

**Group 0061: Rehabilitated Structures**

0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	0.00	SF	\$45.00000	\$0.00
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Total for Group 0061: \$0.00

**Group 0062: Other Structure Costs**

0224	R-OC-STRC OTHER COSTS, STRUCTURES Contingency	0.00	LS	\$0.00000	\$0.00
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Total for Group 0062: \$0.00

**Group 0063: Temporary Road and Pavement Costs**

0225	S-MC-MNTC MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
Total for Group 0063:					\$0.00
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0064:					\$0.00
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0065:					\$0.00
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0066:					\$0.00
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0067:					\$0.00
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0068:					\$0.00
<b>Group 0069: Innovative Contracting Incentatives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0069:					\$0.00
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	2.54	MILE	\$500,000.00000	\$1,270,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
Total for Group 0070:					\$1,270,000.00
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
Total for Group 0071:					\$0.00
<b>Group 0072: Misc. Costs</b>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b><u>Supplemental Description</u></b>				
0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	0.00	LS	\$10,000.00000	\$0.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$271,430.70000	\$271,430.70
0239	614E11000 MAINTAINING TRAFFIC 2%	1.00	LS	\$1,085,722.80000	\$1,085,722.80
0240	619E16020 FIELD OFFICE, TYPE C	44.00	MNTH	\$2,500.00000	\$110,000.00
0242	624E10000 MOBILIZATION	1.00	LS	\$1,200,000.00000	\$1,200,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$271,430.70000	\$271,430.70
0518		0.00		\$0.00000	\$0.00
0519		0.00		\$0.00000	\$0.00
0520		0.00		\$0.00000	\$0.00
0521		0.00		\$0.00000	\$0.00

Total for Group 0072: \$2,938,584.20

Group 0073: Design Contingency Costs

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS 25%	1.00	LS	\$14,306,181.06000	\$14,306,181.06

Total for Group 0073: \$14,306,181.06

Group 0074: Inflation Contingency

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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Total for Group 0074: \$0.00

Macro View

										Attributes						
Acquisition	Unit (SF) or (Acreage)	X	Cost/Unit (\$\$/SF) (\$\$/Acre)	Subtotal Land Value	+	Structure Values (if Taken)	+	Damages (Loss in Value to the Residue)	=	Subtotal Structures & Damages	=	Total Non Labor Acquisition Costs	Parcel Count	Total Takes	Partial Takes	No. of Structures Impacted
-Residential	3.31	X	\$82,451.65	\$272,750	+	855500	+	N/A	=	\$855,500.00	=	\$1,128,250.05	17	6	11	5
-Commercial	6.68	X	\$147,451.64	\$985,065	+	1135000	+	N/A	=	\$1,135,000.00	=	\$2,120,065.42	19	1	18	1
-Industrial	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	=	\$0.00	0	0	0	0
-Agricultural	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	=	\$0.00	0	0	0	0
Relocation	Unit (Displacement)	X	*RHP/*RSP		+	Move Cost	+	Reestablishment	=	Total Non Labor RAP Costs	Estimate amount of time necessary to relocate all RAP parcels = (months) 24					
-Residential Owner Occupant	3	X	\$34,000		+	\$6,000			=	\$120,000	Estimate number of years until project wide R/W acquisition begins = 3.5					
-Residential Tenant	14	X	\$10,000		+	\$1,750			=	\$164,500						
-Commerical/Farm/NPO Owner	1				X	\$15,000	+	\$10,000	=	\$25,000						
-Commerical/Farm/NPO Tenant	1				X	\$15,000	+	\$10,000	=	\$25,000						
-Personal Property	0				X	\$1,000			=	\$0						
$\{((\text{Total Cost of Acquisition Cost}) \times 0.90) \times 0.025\} + \{((\text{Total of Acquisition Cost}) \times 0.15) \times 1.20\} + \{((\text{Total of Acquisition Cost}) \times 0.10) \times 1.50\} = \text{Contingency}$									Contingency (Incidentals, Admin. Review & Appropriation)		1145031.203		*RHP - Replacement Housing Payment *RSP - Rent Supplemental Payment *NPO - Non-Profit Organization			
										<b>Total Non Labor R/W Costs</b>		<b>\$4,727,846.67</b>				

**Instruction for Acquisition & Relocation Cost Estimates**

Estimate the total number of acres involved in the project and allocate those acres into the four categories shown.

Assign an average unit price for each category. These unit prices are typically taken from the auditors tax card data. Cost Estimates prepared at Step 4 (Step 7 on Major Projects) and thereafter must base unit prices on a project sales data book instead of tax card data.

Add structure values from the auditors tax cards only if the structures are taken.

Damages must be assessed by a pre-qualified expert with experience in Before & After analysis. This usually occurs at Step 4 for Minor projects (Step 6 on Major Projects) and requires some knowledge of the impacts of the project on structures.

Relocation Cost Estimates must consider the complexity of the move process. All move estimates that involve a business or a multi-tenant residential structure should use the services of a relocation Assistance professional to accurately gauge costs.

Macro View

Labor (External)	Unit (Parcels)	X	Unit Price	=	Total Cost
Titles	36	X	\$400	=	\$14,400
Appraisal -Simple	12	X	\$750	=	\$9,000
Appraisal -Detailed	24	X	\$4,500	=	\$108,000
Appraisal Review -Simple	12	X	\$500	=	\$6,000
Appraisal Review -Detailed	24	X	\$2,000	=	\$48,000
Negotiations	36	X	\$1,100	=	\$39,600
Relocations -Personal Property	0	X	\$1,500	=	\$0
Relocations -Residential	17	X	\$5,200	=	\$88,400
Relocations -Commercial/Farm/*NPO	1	X	\$5,600	=	\$5,600
Closings	36	X	\$400	=	\$14,400
Project Management	36	X	\$550	=	\$19,800
Asbestos Testing & Abatement		X		=	
<b>Total Labor Costs</b>					<b>\$353,200</b>

\*NPO = Non-Profit Organization

This R/W Cost Estimate Prepared by	Date
Joseph Kuehnle	2/15/2011
This R/W Cost Estimate was performed at Step 6 of the PDP for MAJOR Projects using	

<b>Total Labor Costs</b>	\$353,200.00
<b>Total Non Labor R/W Costs</b>	\$4,727,846.67
<b>Inflation Adjustments</b>	\$416,645.83
<b>Total R/W Costs</b>	<b>\$5,497,692.50</b>

**Instructions for Labor Cost Estimates**

Labor costs are a function of time, distance, and talent. Labor costs estimates should reflect the complexity of the project and the talent necessary to acquire the right of way in a timely manner. The person making the cost estimate may adjust the figures given for the particular project being estimated to reflect local labor costs. It is critical that the estimate be labeled to reflect the alignment alternative, the step in the PDP process and the person(s) performing the estimate.

**Comments**

Cost/Unit were generated from auditors tax card data.

**P.D.P. R/W Cost Estimator**

## Estimate Alt E KY cont 6

Estimated Cost: \$33,202,743.20

Contingency: 53.80%

**Estimated Total: \$51,065,819.04**

Base Date: 01/01/15

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District:

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	52,245.00	SY	\$8.00000	\$417,960.00

Total for Group 0001: \$417,960.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	331,350.00	CY	\$30.00000	\$9,940,500.00
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Total for Group 0002: \$9,940,500.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	331,350.00	CY	\$8.00000	\$2,650,800.00

Total for Group 0003: \$2,650,800.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	662,700.00	CY	\$6.00000	\$3,976,200.00

Total for Group 0005: \$3,976,200.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$8.00000	\$0.00
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Total for Group 0007: \$0.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	3,600.00	FT	\$110.00000	\$396,000.00



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$396,000.00

Group 0009: Subgrade Treatment - Lime

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

Group 0010: Subgrade Treatment - Cement

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	81,883.00	SY	\$2.50000	\$204,707.50
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Total for Group 0010: \$204,707.50

Group 0011: Subgrade Treatment - Undercut & Backfill

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

Group 0012: Other Roadway Costs

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0028	202E35200 PIPE REMOVED, OVER 24"	0.00	FT		\$0.00
0029	202E38000 GUARDRAIL REMOVED	0.00	FT		\$0.00
0030	202E42206 ANCHOR ASSEMBLY REMOVED	0.00	EACH		\$0.00
0031	202E58000 MANHOLE REMOVED	0.00	EACH		\$0.00
0032	202E58100 CATCH BASIN REMOVED	0.00	EACH		\$0.00
0033	202E75000 FENCE REMOVED	0.00	FT		\$0.00
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>PROOF ROLLING</b>				
0035	204E10000	0.00	SY	\$0.81000	\$0.00
	SUBGRADE COMPACTION				
0036	451E30000	0.00	FT		\$0.00
	SPECIAL - PRESSURE RELIEF JOINT, TYPE A				
0037	606E13000	1,250.00	FT	\$14.00000	\$17,500.00
	GUARDRAIL, TYPE 5				
0038	606E22000	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE B-98				
0039	606E22010	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE E-98				
0040	606E26500	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE T				
0041	606E35000	0.00	EACH		\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 1				
0042	606E35100	0.00	EACH		\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 2				
0043	606E60010	0.00	EACH		\$0.00
	IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)				
0044	607E15000	0.00	FT		\$0.00
	FENCE, TYPE 47				
	<i>For Fencing</i>				
0423	304E20000	0.00	CY		\$0.00
	AGGREGATE BASE				
	<i>For Fencing</i>				
0424	601E32100	0.00	CY		\$0.00
	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER				
	<i>For Fencing</i>				
0425	607E40500	0.00	EACH		\$0.00
	GATE, TYPE 47				
	<i>For Fencing</i>				
0426	625E32000	0.00	EACH		\$0.00
	GROUND ROD				
	<i>For Fencing</i>				
0466		0.00		\$0.00000	\$0.00

Total for Group 0012: \$17,500.00

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0467	659E10000	67,695.00	SY	\$1.00000	\$67,695.00
	SEEDING AND MULCHING				
0531	660E25000	0.00	SY	\$15.00000	\$0.00
	SODDING STAKED				

Total for Group 0014: \$67,695.00

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0469	601E32000	12.00	CY	\$75.00000	\$900.00
	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER				

Total for Group 0015: \$900.00

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<b>MAJOR COST DRIVERS, EROSION CONTROL</b>					
0470	832E10000	1.00	LS	\$50,000.00000	\$50,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0471	832E20000	300,000.00	EACH	\$1.00000	\$300,000.00
EROSION CONTROL					

Total for Group 0016: \$350,000.00

**Group 0017: Other Erosion Control Costs**

0049	670E00700	0.00	SY		\$0.00
DITCH EROSION PROTECTION					
0050	B-OC-ERCO	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, EROSION CONTROL					
0051	659E00100	0.00	EACH	\$0.00000	\$0.00
SOIL ANALYSIS TEST					
0052	659E00300	0.00	CY		\$0.00
TOPSOIL					
0053	659E14000	0.00	SY		\$0.00
REPAIR SEEDING AND MULCHING					
0054	659E15000	0.00	SY	\$0.71000	\$0.00
INTER-SEEDING					
0055	659E20000	0.00	TON		\$0.00
COMMERCIAL FERTILIZER					
0056	659E31000	0.00	ACRE	\$0.00000	\$0.00
LIME					
0057	659E35000	0.00	MGAL	\$5.00000	\$0.00
WATER					
0058	659E40000	0.00	MSF	\$0.00000	\$0.00
MOWING					

Total for Group 0017: \$0.00

**Group 0018: Underdrains**

0059	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0062	605E05100	10,850.00	FT	\$8.00000	\$86,800.00
4" SHALLOW PIPE UNDERDRAINS					

Total for Group 0018: \$86,800.00

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0480	C-MC-DRNG	37.00	FT	\$350.00000	\$12,950.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>					
0481	C-MC-DRNG	1.00	EACH	\$1,500.00000	\$1,500.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0019: \$14,450.00

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0476	C-MC-DRNG	0.00	FT	\$550.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"*

0477	C-MC-DRNG	0.00	EACH	\$2,000.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete - Headwalls/wingwalls</i>					

Total for Group 0021: \$0.00

**Group 0022: Culverts, Type A: 10' - 20'**

0486	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0487	C-MC-DRNG	0.00	FT	\$1,400.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>					

0488	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0022: \$0.00

**Group 0024: BMP's**

0076	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

Total for Group 0024: \$0.00

**Group 0025: Closed Storm System**

0077	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0489	603E13400	3,608.00	FT	\$75.00000	\$270,600.00
30" CONDUIT, TYPE B (Average size)					

0523	604E00800	14.00	EACH	\$1,500.00000	\$21,000.00
CATCH BASIN, NO. 3A					

0524	604E31500	1.00	EACH	\$3,000.00000	\$3,000.00
MANHOLE, NO. 3					

0525	604E36601	0.00	EACH	\$1,250.00000	\$0.00
PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN					

0526	Special	0.00	LS	\$6,400,000.00000	\$0.00
Pump Station (Storm)					

0527	Special	0.00	EACH	\$5,750.00000	\$0.00
Stormceptors					

0529	Special	0.00	LS	\$109,000.00000	\$0.00
Retention basin improvements					

Total for Group 0025: \$294,600.00

**Group 0026: Other Drainage Costs**

0078	C-OC-DRNG	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, DRAINAGE					

Total for Group 0026: \$0.00

**Group 0027: Mainline - Travel Lanes**

0095	D-MC-PVMT	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT					

0494	D-MC-PVMT	59,563.00	SY	\$68.00000	\$4,050,284.00
13" Reinforced Concrete Pavement					
<i>Includes 6" Agg Base and Subgrade Compaction</i>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0027: \$4,050,284.00

**Group 0028: Mainline - Outside Shoulder**

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	8,534.00	SY	\$68.00000	\$580,312.00

Total for Group 0028: \$580,312.00

**Group 0030: Mainline - Inside Shoulder**

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	11,410.00	SY	\$68.00000	\$775,880.00

Total for Group 0030: \$775,880.00

**Group 0031: Ramps (including shoulders)**

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	2,376.00	SY	\$68.00000	\$161,568.00

Total for Group 0031: \$161,568.00

**Group 0032: Non - Mainline Lanes**

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$41.00000	\$0.00

Total for Group 0032: \$0.00

**Group 0041: Other Pavement Costs**

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

**Group 0042: Water Works**

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

**Group 0043: Sanitary Line**

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0043: \$0.00

Group 0044: Lighting - Full Interchange

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	EACH	\$469,000.00000	\$0.00

Total for Group 0044: \$0.00

Group 0045: Lighting - Partial Interchange

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

Group 0046: Lighting - Continuous Roadway

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	3,600.00	FT	\$35.00000	\$126,000.00

Total for Group 0046: \$126,000.00

Group 0047: Other Lighting Costs

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

Group 0048: Traffic Surveillance

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	1.00	LS	\$246,872.97000	\$246,872.97
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Total for Group 0048: \$246,872.97

Group 0049: Signs

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	0.68	MILE	\$250,000.00000	\$170,000.00

Total for Group 0049: \$170,000.00

Group 0050: Pavement Marking

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	2.92	MILE	\$3,000.00000	\$8,760.00
0503	644E00200 LANE LINE	7.19	MILE	\$2,000.00000	\$14,380.00

Total for Group 0050: \$23,140.00

Group 0051: Other Traffic Control Costs

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
<b>Total for Group 0051: \$0.00</b>					
<b>Group 0052: Signals - Intersections</b>					
0212	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS	0.00	LS	\$175.00000	\$0.00
<b>Total for Group 0052: \$0.00</b>					
<b>Group 0053: Other Traffic Signal Costs</b>					
0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
<b>Total for Group 0053: \$0.00</b>					
<b>Group 0054: Landscaping</b>					
0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
<b>Total for Group 0054: \$0.00</b>					
<b>Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing</b>					
0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
0504	M-MC-WALL Retaining Walls	0.00	SF	\$135.00000	\$0.00
<b>Total for Group 0055: \$0.00</b>					
<b>Group 0056: Other Retaining Wall Costs</b>					
0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
<b>Total for Group 0056: \$0.00</b>					
<b>Group 0057: Building Demolition</b>					
0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
0532	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Commercial</i>	0.00	EACH	\$30,000.00000	\$0.00
0533	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	0.00	EACH	\$15,000.00000	\$0.00
0534	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Residential</i>	1.00	EACH	\$12,000.00000	\$12,000.00
0535	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Residential</i>	4.00	EACH	\$7,500.00000	\$30,000.00
0536	202E98100	0.00	EACH	\$8,500.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

REMOVAL MISC.:  
Radio Tower

Total for Group 0057: \$42,000.00

**Group 0058: Noise Barrier**

0220	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0505	P-MC-NSBR Noise Barrier	0.00	LS	\$400.00000	\$0.00

Total for Group 0058: \$0.00

**Group 0059: Other Noise Barrier Costs**

0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00

Total for Group 0059: \$0.00

**Group 0060: New Structures**

0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	0.00	SF	\$125.00000	\$0.00
0507	R-MC-STRC Removal of Existing Structures non-complex	0.00	SF	\$12.00000	\$0.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	0.00	SF	\$17.00000	\$0.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	0.00	SF	\$30.00000	\$0.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	0.00	SF	\$150.00000	\$0.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	0.00	SF	\$200.00000	\$0.00

Total for Group 0060: \$0.00

**Group 0061: Rehabilitated Structures**

0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	0.00	SF	\$45.00000	\$0.00
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Total for Group 0061: \$0.00

**Group 0062: Other Structure Costs**

0224	R-OC-STRC OTHER COSTS, STRUCTURES Contingency	0.00	LS	\$0.00000	\$0.00
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Total for Group 0062: \$0.00

**Group 0063: Temporary Road and Pavement Costs**

0225	S-MC-MNTC MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
Total for Group 0063:					\$0.00
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0064:					\$0.00
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0065:					\$0.00
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0066:					\$0.00
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0067:					\$0.00
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0068:					\$0.00
<b>Group 0069: Innovative Contracting Incentatives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0069:					\$0.00
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	0.68	MILE	\$500,000.00000	\$340,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
Total for Group 0070:					\$340,000.00
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
Total for Group 0071:					\$0.00
<b>Group 0072: Misc. Costs</b>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b><u>Supplemental Description</u></b>				
0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	0.00	LS	\$10,000.00000	\$0.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$124,670.85000	\$124,670.85
0239	614E11000 MAINTAINING TRAFFIC 2%	1.00	LS	\$498,683.39000	\$498,683.39
0240	619E16020 FIELD OFFICE, TYPE C	32.00	MNTH	\$2,500.00000	\$80,000.00
0242	624E10000 MOBILIZATION	1.00	LS	\$800,000.00000	\$800,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$124,670.85000	\$124,670.85
0518		0.00		\$0.00000	\$0.00
0519		0.00		\$0.00000	\$0.00
0520		0.00		\$0.00000	\$0.00
0521		0.00		\$0.00000	\$0.00
<b>Total for Group 0072:</b>					<b>\$1,628,025.09</b>

**Group 0073: Design Contingency Costs**

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS 25%	1.00	LS	\$6,640,548.64000	\$6,640,548.64

**Total for Group 0073: \$6,640,548.64**

**Group 0074: Inflation Contingency**

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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**Total for Group 0074: \$0.00**

Macro View

										Attributes						
Acquisition	Unit (SF) or (Acreage)	X	Cost/Unit (\$\$/SF) (\$\$/Acre)	Subtotal Land Value	+	Structure Values (if Taken)	+	Damages (Loss in Value to the Residue)	=	Subtotal Structures & Damages	=	Total Non Labor Acquisition Costs	Parcel Count	Total Takes	Partial Takes	No. of Structures Impacted
-Residential	3.37	X	\$96,480.75	\$325,140	+	2085000	+	N/A	=	\$2,085,000.00	=	\$2,410,140.13	8	4	4	5
-Commercial	0.41	X	\$4,950.50	\$2,030	+	0	+	N/A	=	\$0.00	=	\$2,029.71	1	0	1	0
-Industrial	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	=	\$0.00	0	0	0	0
-Agricultural	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	=	\$0.00	0	0	0	0
Relocation	Unit (Displacement)	X	*RHP/*RSP		+	Move Cost	+	Reestablishment	=	Total Non Labor RAP Costs	Estimate amount of time necessary to relocate all RAP parcels = (months) 24					
-Residential Owner Occupant	5	X	\$34,000		+	\$6,000			=	\$200,000	Estimate number of years until project wide R/W acquisition begins = 3.5					
-Residential Tenant	18	X	\$10,000		+	\$1,750			=	\$211,500						
-Commerical/Farm/NPO Owner	0				X	\$15,000	+	\$10,000	=	\$0						
-Commerical/Farm/NPO Tenant	0				X	\$15,000	+	\$10,000	=	\$0						
-Personal Property	0				X	\$1,000			=	\$0						
$\{((\text{Total Cost of Acquisition Cost}) \times 0.90) \times 0.025\} + \{((\text{Total of Acquisition Cost}) \times 0.15) \times 1.20\} + \{((\text{Total of Acquisition Cost}) \times 0.10) \times 1.50\} = \text{Contingency}$									Contingency (Incidentals, Admin. Review & Appropriation)		850289.866	*RHP - Replacement Housing Payment *RSP - Rent Supplemental Payment *NPO - Non-Profit Organization				
										<b>Total Non Labor R/W Costs</b>		\$3,673,959.70				

**Instruction for Acquisition & Relocation Cost Estimates**

Estimate the total number of acres involved in the project and allocate those acres into the four categories shown.

Assign an average unit price for each category. These unit prices are typically taken from the auditors tax card data. Cost Estimates prepared at Step 4 (Step 7 on Major Projects) and thereafter must base unit prices on a project sales data book instead of tax card data.

Add structure values from the auditors tax cards only if the structures are taken.

Damages must be assessed by a pre-qualified expert with experience in Before & After analysis. This usually occurs at Step 4 for Minor projects (Step 6 on Major Projects) and requires some knowledge of the impacts of the project on structures.

Relocation Cost Estimates must consider the complexity of the move process. All move estimates that involve a business or a multi-tenant residential structure should use the services of a relocation Assistance professional to accurately gauge costs.

Macro View

Labor (External)	Unit (Parcels)	X	Unit Price	=	Total Cost
Titles	9	X	\$400	=	\$3,600
Appraisal -Simple	4	X	\$750	=	\$3,000
-Detailed	5	X	\$4,500	=	\$22,500
Appraisal Review -Simple	4	X	\$500	=	\$2,000
-Detailed	5	X	\$2,000	=	\$10,000
Negotiations	9	X	\$1,100	=	\$9,900
Relocations -Personal Property	0	X	\$1,500	=	\$0
-Residential	23	X	\$5,200	=	\$119,600
-Commercial/Farm/*NPO	0	X	\$5,600	=	\$0
Closings	23	X	\$400	=	\$9,200
Project Management	23	X	\$550	=	\$12,650
Asbestos Testing & Abatement		X		=	
<b>Total Labor Costs</b>					\$192,450

\*NPO = Non-Profit Organization

This R/W Cost Estimate Prepared by	Date
Chris Clemons	8/4/2010
This R/W Cost Estimate was performed at Step 6 of the PDP for MAJOR Projects using	

<b>Total Labor Costs</b>	\$192,450.00
<b>Total Non Labor R/W Costs</b>	\$3,673,959.70
<b>Inflation Adjustments</b>	\$317,045.60
<b>Total R/W Costs</b>	<b>\$4,183,455.30</b>

**Instructions for Labor Cost Estimates**

Labor costs are a function of time, distance, and talent. Labor costs estimates should reflect the complexity of the project and the talent necessary to acquire the right of way in a timely manner. The person making the cost estimate may adjust the figures given for the particular project being estimated to reflect local labor costs. It is critical that the estimate be labeled to reflect the alignment alternative, the step in the PDP process and the person(s) performing the estimate.

**Comments**

Cost/Unit were generated from auditors tax card data.

**P.D.P. R/W Cost Estimator**

## Estimate Alt E KY cont 7

Estimated Cost: \$273,619,105.99

Contingency: 57.60%

**Estimated Total: \$431,223,711.04**

Base Date: 01/01/15

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District:

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	129,338.00	SY	\$8.00000	\$1,034,704.00

Total for Group 0001: \$1,034,704.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	80,360.00	CY	\$30.00000	\$2,410,800.00
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Total for Group 0002: \$2,410,800.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	120,540.00	CY	\$8.00000	\$964,320.00

Total for Group 0003: \$964,320.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	268,200.00	CY	\$6.00000	\$1,609,200.00

Total for Group 0005: \$1,609,200.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	67,300.00	CY	\$8.00000	\$538,400.00
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Total for Group 0007: \$538,400.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	6,150.00	FT	\$110.00000	\$676,500.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$676,500.00

Group 0009: Subgrade Treatment - Lime

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

Group 0010: Subgrade Treatment - Cement

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	162,575.00	SY	\$2.50000	\$406,437.50
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Total for Group 0010: \$406,437.50

Group 0011: Subgrade Treatment - Undercut & Backfill

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

Group 0012: Other Roadway Costs

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0028	202E35200 PIPE REMOVED, OVER 24"	0.00	FT		\$0.00
0029	202E38000 GUARDRAIL REMOVED	0.00	FT		\$0.00
0030	202E42206 ANCHOR ASSEMBLY REMOVED	0.00	EACH		\$0.00
0031	202E58000 MANHOLE REMOVED	0.00	EACH		\$0.00
0032	202E58100 CATCH BASIN REMOVED	0.00	EACH		\$0.00
0033	202E75000 FENCE REMOVED	0.00	FT		\$0.00
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>PROOF ROLLING</b>				
0035	204E10000	0.00	SY	\$0.81000	\$0.00
	<b>SUBGRADE COMPACTION</b>				
0036	451E30000	0.00	FT		\$0.00
	<b>SPECIAL - PRESSURE RELIEF JOINT, TYPE A</b>				
0037	606E13000	4,200.00	FT	\$14.00000	\$58,800.00
	<b>GUARDRAIL, TYPE 5</b>				
0038	606E22000	0.00	EACH		\$0.00
	<b>ANCHOR ASSEMBLY, TYPE B-98</b>				
0039	606E22010	0.00	EACH		\$0.00
	<b>ANCHOR ASSEMBLY, TYPE E-98</b>				
0040	606E26500	0.00	EACH		\$0.00
	<b>ANCHOR ASSEMBLY, TYPE T</b>				
0041	606E35000	0.00	EACH		\$0.00
	<b>BRIDGE TERMINAL ASSEMBLY, TYPE 1</b>				
0042	606E35100	0.00	EACH		\$0.00
	<b>BRIDGE TERMINAL ASSEMBLY, TYPE 2</b>				
0043	606E60010	0.00	EACH		\$0.00
	<b>IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)</b>				
0044	607E15000	0.00	FT		\$0.00
	<b>FENCE, TYPE 47</b>				
	<i>For Fencing</i>				
0423	304E20000	0.00	CY		\$0.00
	<b>AGGREGATE BASE</b>				
	<i>For Fencing</i>				
0424	601E32100	0.00	CY		\$0.00
	<b>ROCK CHANNEL PROTECTION, TYPE B WITH FILTER</b>				
	<i>For Fencing</i>				
0425	607E40500	0.00	EACH		\$0.00
	<b>GATE, TYPE 47</b>				
	<i>For Fencing</i>				
0426	625E32000	0.00	EACH		\$0.00
	<b>GROUND ROD</b>				
	<i>For Fencing</i>				
0466		0.00		\$0.00000	\$0.00

**Total for Group 0012: \$58,800.00**

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	<b>MAJOR COST DRIVERS, EROSION CONTROL</b>				
0467	659E10000	35,254.00	SY	\$1.00000	\$35,254.00
	<b>SEEDING AND MULCHING</b>				
0531	660E25000	0.00	SY	\$15.00000	\$0.00
	<b>SODDING STAKED</b>				

**Total for Group 0014: \$35,254.00**

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	<b>MAJOR COST DRIVERS, EROSION CONTROL</b>				
0469	601E32000	12.00	CY	\$75.00000	\$900.00
	<b>ROCK CHANNEL PROTECTION, TYPE A WITH FILTER</b>				

**Total for Group 0015: \$900.00**

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<b>MAJOR COST DRIVERS, EROSION CONTROL</b>					
0470	832E10000	1.00	LS	\$50,000.00000	\$50,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0471	832E20000	170,000.00	EACH	\$1.00000	\$170,000.00
EROSION CONTROL					

Total for Group 0016: \$220,000.00

**Group 0017: Other Erosion Control Costs**

0049	670E00700	0.00	SY		\$0.00
DITCH EROSION PROTECTION					
0050	B-OC-ERCO	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, EROSION CONTROL					
0051	659E00100	0.00	EACH	\$0.00000	\$0.00
SOIL ANALYSIS TEST					
0052	659E00300	0.00	CY		\$0.00
TOPSOIL					
0053	659E14000	0.00	SY		\$0.00
REPAIR SEEDING AND MULCHING					
0054	659E15000	0.00	SY	\$0.71000	\$0.00
INTER-SEEDING					
0055	659E20000	0.00	TON		\$0.00
COMMERCIAL FERTILIZER					
0056	659E31000	0.00	ACRE	\$0.00000	\$0.00
LIME					
0057	659E35000	0.00	MGAL	\$5.00000	\$0.00
WATER					
0058	659E40000	0.00	MSF	\$0.00000	\$0.00
MOWING					

Total for Group 0017: \$0.00

**Group 0018: Underdrains**

0059	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0062	605E05100	11,295.00	FT	\$8.00000	\$90,360.00
4" SHALLOW PIPE UNDERDRAINS					

Total for Group 0018: \$90,360.00

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0480	C-MC-DRNG	0.00	FT	\$350.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>					
0481	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0019: \$0.00

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0476	C-MC-DRNG	0.00	FT	\$550.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"*

0477	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete - Headwalls/wingwalls</i>					

Total for Group 0021: \$0.00

**Group 0022: Culverts, Type A: 10' - 20'**

0486	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0487	C-MC-DRNG	0.00	FT	\$1,400.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>					

0488	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0022: \$0.00

**Group 0024: BMP's**

0076	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

Total for Group 0024: \$0.00

**Group 0025: Closed Storm System**

0077	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0489	603E13400	23,930.00	FT	\$75.00000	\$1,794,750.00
30" CONDUIT, TYPE B (Average size)					

0523	604E00800	150.00	EACH	\$1,500.00000	\$225,000.00
CATCH BASIN, NO. 3A					

0524	604E31500	35.00	EACH	\$3,000.00000	\$105,000.00
MANHOLE, NO. 3					

0525	604E36601	1.00	EACH	\$1,250.00000	\$1,250.00
PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN					

0526	Special	1.00	LS	\$6,400,000.00000	\$6,400,000.00
Pump Station (Storm)					

0527	Special	6.00	EACH	\$5,750.00000	\$34,500.00
Stormceptors					

0529	Special	1.00	LS	\$109,000.00000	\$109,000.00
Retention basin improvements					

Total for Group 0025: \$8,669,500.00

**Group 0026: Other Drainage Costs**

0078	C-OC-DRNG	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, DRAINAGE					

Total for Group 0026: \$0.00

**Group 0027: Mainline - Travel Lanes**

0095	D-MC-PVMT	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT					

0494	D-MC-PVMT	61,502.00	SY	\$68.00000	\$4,182,136.00
13" Reinforced Concrete Pavement					
<i>Includes 6" Agg Base and Subgrade Compaction</i>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0027: \$4,182,136.00

Group 0028: Mainline - Outside Shoulder

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	13,630.00	SY	\$68.00000	\$926,840.00

Total for Group 0028: \$926,840.00

Group 0030: Mainline - Inside Shoulder

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	15,649.00	SY	\$68.00000	\$1,064,132.00

Total for Group 0030: \$1,064,132.00

Group 0031: Ramps (including shoulders)

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	27,291.00	SY	\$68.00000	\$1,855,788.00

Total for Group 0031: \$1,855,788.00

Group 0032: Non - Mainline Lanes

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	44,394.00	SY	\$41.00000	\$1,820,154.00

Total for Group 0032: \$1,820,154.00

Group 0041: Other Pavement Costs

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

Group 0042: Water Works

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

Group 0043: Sanitary Line

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0043: \$0.00

**Group 0044: Lighting - Full Interchange**

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	2.00	EACH	\$469,000.00000	\$938,000.00

Total for Group 0044: \$938,000.00

**Group 0045: Lighting - Partial Interchange**

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

**Group 0046: Lighting - Continuous Roadway**

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	6,195.00	FT	\$35.00000	\$216,825.00

Total for Group 0046: \$216,825.00

**Group 0047: Other Lighting Costs**

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

**Group 0048: Traffic Surveillance**

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	1.00	LS	\$2,083,872.78000	\$2,083,872.78
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Total for Group 0048: \$2,083,872.78

**Group 0049: Signs**

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	1.17	MILE	\$250,000.00000	\$292,500.00

Total for Group 0049: \$292,500.00

**Group 0050: Pavement Marking**

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	21.70	MILE	\$3,000.00000	\$65,100.00
0503	644E00200 LANE LINE	12.57	MILE	\$2,000.00000	\$25,140.00

Total for Group 0050: \$90,240.00

**Group 0051: Other Traffic Control Costs**

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00

Total for Group 0051: \$0.00

Group 0052: Signals - Intersections

0212	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS	7.00	LS	\$175,000.00000	\$1,225,000.00
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Total for Group 0052: \$1,225,000.00

Group 0053: Other Traffic Signal Costs

0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0053: \$0.00

Group 0054: Landscaping

0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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Total for Group 0054: \$0.00

Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing

0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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0504	M-MC-WALL Retaining Walls	124,855.00	SF	\$135.00000	\$16,855,425.00
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Total for Group 0055: \$16,855,425.00

Group 0056: Other Retaining Wall Costs

0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0056: \$0.00

Group 0057: Building Demolition

0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0532	202E98100 REMOVAL MISC.: <i>Radio Tower</i>	1.00	EACH	\$8,500.00000	\$8,500.00
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0533	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Residential</i>	59.00	EACH	\$7,500.00000	\$442,500.00
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0534	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	7.00	EACH	\$15,000.00000	\$105,000.00
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0535	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Commercial</i>	0.00	EACH	\$30,000.00000	\$0.00
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0536	202E56101	4.00	EACH	\$12,000.00000	\$48,000.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

BUILDING DEMOLISHED, AS PER PLAN  
*Large Residential*

Total for Group 0057: \$604,000.00

**Group 0058: Noise Barrier**

0220	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0505	P-MC-NSBR Noise Barrier	47,992.00	SF	\$25.00000	\$1,199,800.00

Total for Group 0058: \$1,199,800.00

**Group 0059: Other Noise Barrier Costs**

0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00

Total for Group 0059: \$0.00

**Group 0060: New Structures**

0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	254,430.00	SF	\$125.00000	\$31,803,750.00
0507	R-MC-STRC Removal of Existing Structures non-complex	4,744.00	SF	\$12.00000	\$56,928.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	175,222.00	SF	\$17.00000	\$2,978,774.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	113,347.00	SF	\$30.00000	\$3,400,410.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	491,540.00	SF	\$150.00000	\$73,731,000.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	239,227.00	SF	\$200.00000	\$47,845,400.00

Total for Group 0060: \$159,816,262.00

**Group 0061: Rehabilitated Structures**

0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	0.00	SF	\$45.00000	\$0.00
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Total for Group 0061: \$0.00

**Group 0062: Other Structure Costs**

0224	R-OC-STRC OTHER COSTS, STRUCTURES <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
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Total for Group 0062: \$0.00

**Group 0063: Temporary Road and Pavement Costs**

0225	S-MC-MNTC MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
Total for Group 0063:					\$0.00
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0064:					\$0.00
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0065:					\$0.00
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0066:					\$0.00
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0067:					\$0.00
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0068:					\$0.00
<b>Group 0069: Innovative Contracting Incentatives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0069:					\$0.00
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	1.17	MILE	\$500,000.00000	\$585,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
Total for Group 0070:					\$585,000.00
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
Total for Group 0071:					\$0.00
<b>Group 0072: Misc. Costs</b>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b><u>Supplemental Description</u></b>				
0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	0.00	LS	\$10,000.00000	\$0.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$1,052,355.75000	\$1,052,355.75
0239	614E11000 MAINTAINING TRAFFIC 2%	1.00	LS	\$4,209,423.01000	\$4,209,423.01
0240	619E16020 FIELD OFFICE, TYPE C	44.00	MNTH	\$2,500.00000	\$110,000.00
0242	624E10000 MOBILIZATION	1.00	LS	\$2,000,000.00000	\$2,000,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$1,052,355.75000	\$1,052,355.75

Total for Group 0072: \$8,424,134.51

Group 0073: Design Contingency Costs

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS 25%	1.00	LS	\$54,723,821.20000	\$54,723,821.20

Total for Group 0073: \$54,723,821.20

Group 0074: Inflation Contingency

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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Total for Group 0074: \$0.00

Macro View

Macro View										Attributes						
Acquisition	Unit (SF) or (Acreage)	X	Cost/Unit (\$\$/SF) (\$\$/Acre)	Subtotal Land Value	+	Structure Values (if Taken)	+	Damages (Loss in Value to the Residue)	=	Subtotal Structures & Damages	=	Total Non Labor Acquisition Costs	Parcel Count	Total Takes	Partial Takes	No. of Structures Impacted
-Residential	8.78	X	\$66,719.36	\$585,796	+	3126200	+	N/A	=	\$3,126,200.00	=	\$3,711,995.98	97	69	28	63
-Commercial	4.86	X	\$593,135.38	\$2,882,638	+	1176500	+	N/A	=	\$1,176,500.00	=	\$4,059,137.95	17	9	8	7
-Industrial	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	=	\$0.00	0	0	0	0
-Other	0.36	X	\$7,723.48	\$2,780	+	0	+	N/A	=	\$0.00	=	\$2,780.45	3	1	2	1
Relocation	Unit (Displacement)	X	*RHP/*RSP	+	Move Cost	+	Reestablishment	=	Total Non Labor RAP Costs	Estimate amount of time necessary to relocate all RAP parcels = (months) 24						
-Residential Owner Occupant	53	X	\$34,000	+	\$6,000			=	\$2,120,000	Estimate number of years until project wide R/W acquisition begins = 3.5						
-Residential Tenant	31	X	\$10,000	+	\$1,750			=	\$364,250							
-Commerical/Farm/NPO Owner	2			X	\$15,000	+	\$10,000	=	\$50,000							
-Commerical/Farm/NPO Tenant	4			X	\$15,000	+	\$10,000	=	\$100,000							
-Personal Property	0			X	\$1,000			=	\$0							
$\{((\text{Total Cost of Acquisition Cost}) \times 0.90) \times 0.025\} + \{((\text{Total of Acquisition Cost}) \times 0.15) \times 1.20\} + \{((\text{Total of Acquisition Cost}) \times 0.10) \times 1.50\} = \text{Contingency}$									Contingency (Incidentals, Admin. Review & Appropriation)		2740304.819		*RHP - Replacement Housing Payment *RSP - Rent Supplemental Payment *NPO - Non-Profit Organization			
									<b>Total Non Labor R/W Costs</b>		<b>\$13,148,469.20</b>					

**Instruction for Acquisition & Relocation Cost Estimates**

Estimate the total number of acres involved in the project and allocate those acres into the four categories shown.

Assign an average unit price for each category. These unit prices are typically taken from the auditors tax card data. Cost Estimates prepared at Step 4 (Step 7 on Major Projects) and thereafter must base unit prices on a project sales data book instead of tax card data.

Add structure values from the auditors tax cards only if the structures are taken.

Damages must be assessed by a pre-qualified expert with experience in Before & After analysis. This usually occurs at Step 4 for Minor projects (Step 6 on Major Projects) and requires some knowledge of the impacts of the project on structures.

Relocation Cost Estimates must consider the complexity of the move process. All move estimates that involve a business or a multi-tenant residential structure should use the services of a relocation Assistance professional to accurately gauge costs.

Macro View

Labor (External)	Unit (Parcels)	X	Unit Price	=	Total Cost
Titles	117	X	\$400	=	\$46,800
Appraisal -Simple	6	X	\$750	=	\$4,500
Appraisal -Detailed	111	X	\$4,500	=	\$499,500
Appraisal Review -Simple	4	X	\$500	=	\$2,000
Appraisal Review -Detailed	5	X	\$2,000	=	\$10,000
Negotiations	117	X	\$1,100	=	\$128,700
Relocations -Personal Property	0	X	\$1,500	=	\$0
Relocations -Residential	84	X	\$5,200	=	\$436,800
Relocations -Commercial/Farm/*NPO	6	X	\$5,600	=	\$33,600
Closings	117	X	\$400	=	\$46,800
Project Management	117	X	\$550	=	\$64,350
Asbestos Testing & Abatement		X		=	
<b>Total Labor Costs</b>					<b>\$1,273,050</b>

\*NPO = Non-Profit Organization

This R/W Cost Estimate Prepared by	Date
Chris Clemons	8/4/2010
This R/W Cost Estimate was performed at Step 6 of the PDP for MAJOR Projects using	

<b>Total Labor Costs</b>	\$1,273,050.00
<b>Total Non Labor R/W Costs</b>	\$13,148,469.20
<b>Inflation Adjustments</b>	\$1,182,564.57
<b>Total R/W Costs</b>	<b>\$15,604,083.77</b>

**Instructions for Labor Cost Estimates**

Labor costs are a function of time, distance, and talent. Labor costs estimates should reflect the complexity of the project and the talent necessary to acquire the right of way in a timely manner. The person making the cost estimate may adjust the figures given for the particular project being estimated to reflect local labor costs. It is critical that the estimate be labeled to reflect the alignment alternative, the step in the PDP process and the person(s) performing the estimate.

**Comments**

Cost/Unit were generated from auditors tax card data. Changed "Agriculture" category to "Other" to include Goebel Park and other properties that do not fit the main categories.

**P.D.P. R/W Cost Estimator**



## Estimate Alt E KY cont 8

Estimated Cost: \$40,553,981.01

Contingency: 65.50%

**Estimated Total: \$67,116,838.57**

Base Date: 01/01/15

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District:

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
<b>Group 0001: Pavement Removal</b>					
0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	0.00	SY	\$8.00000	\$0.00
				Total for Group 0001: \$0.00	
<b>Group 0002: Excavation - Rock</b>					
0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$30.00000	\$0.00
				Total for Group 0002: \$0.00	
<b>Group 0003: Excavation - Soil</b>					
0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	0.00	CY	\$8.00000	\$0.00
				Total for Group 0003: \$0.00	
<b>Group 0004: Excavation - Hazardous</b>					
0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
				Total for Group 0004: \$0.00	
<b>Group 0005: Fill - Embankment (includes wasting excess excavation)</b>					
0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	0.00	CY	\$6.00000	\$0.00
				Total for Group 0005: \$0.00	
<b>Group 0006: Fill - Lime Modified Soil</b>					
0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00
				Total for Group 0006: \$0.00	
<b>Group 0007: Fill - Borrow</b>					
0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$8.00000	\$0.00
				Total for Group 0007: \$0.00	
<b>Group 0008: Concrete Barrier</b>					
0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	0.00	FT	\$110.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$0.00

**Group 0009: Subgrade Treatment - Lime**

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

**Group 0010: Subgrade Treatment - Cement**

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	SY	\$2.50000	\$0.00
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Total for Group 0010: \$0.00

**Group 0011: Subgrade Treatment - Undercut & Backfill**

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

**Group 0012: Other Roadway Costs**

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0034	204E45000 PROOF ROLLING	0.00	HOUR	\$126.59000	\$0.00
0035	204E10000 SUBGRADE COMPACTION	0.00	SY	\$0.81000	\$0.00
0037	606E13000 GUARDRAIL, TYPE 5	0.00	FT	\$14.00000	\$0.00
0466		0.00		\$0.00000	\$0.00

Total for Group 0012: \$0.00

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO MAJOR COST DRIVERS, EROSION CONTROL	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<u>Description</u> <u>Supplemental Description</u>				
0467	659E10000 SEEDING AND MULCHING	0.00	SY	\$1.00000	\$0.00
0531	660E25000 SODDING STAKED	0.00	SY	\$15.00000	\$0.00
Total for Group 0014:					\$0.00

Group 0015: Rock Channel Protection

0047	B-MC-ERCO MAJOR COST DRIVERS, EROSION CONTROL	1.00	LS	\$0.00000	\$0.00
0469	601E32000 ROCK CHANNEL PROTECTION, TYPE A WITH FILTER	0.00	CY	\$75.00000	\$0.00
Total for Group 0015:					\$0.00

Group 0016: Erosion Control - Item 832

0048	B-MC-ERCO MAJOR COST DRIVERS, EROSION CONTROL	1.00	LS	\$0.00000	\$0.00
0470	832E10000 STORM WATER POLLUTION PREVENTION PLAN	1.00	LS	\$20,000.00000	\$20,000.00
0471	832E20000 EROSION CONTROL	2,000.00	EACH	\$1.00000	\$2,000.00
Total for Group 0016:					\$22,000.00

Group 0018: Underdrains

0059	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
0062	605E05100 4" SHALLOW PIPE UNDERDRAINS	0.00	FT	\$8.00000	\$0.00
Total for Group 0018:					\$0.00

Group 0019: Culverts - Type A: < 5'

0474	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE	0.00	LS	\$0.00000	\$0.00
0480	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE <i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>	0.00	FT	\$350.00000	\$0.00
0481	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE <i>Concrete Masonry</i>	0.00	EACH	\$1,500.00000	\$0.00
Total for Group 0019:					\$0.00

Group 0021: Culverts, Type A: 5' - 10'

0067	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
0476	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE <i>Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"</i>	0.00	FT	\$550.00000	\$0.00
0477	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE <i>Concrete - Headwalls/wingwalls</i>	0.00	EACH	\$1,500.00000	\$0.00
Total for Group 0021:					\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0022: Culverts, Type A: 10' - 20'**

0486	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
0487	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE <i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>	0.00	FT	\$1,400.00000	\$0.00
0488	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE <i>Concrete Masonry</i>	0.00	EACH	\$1,500.00000	\$0.00

Total for Group 0022: \$0.00

**Group 0024: BMP's**

0076	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
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Total for Group 0024: \$0.00

**Group 0025: Closed Storm System**

0077	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
0489	603E13400 30" CONDUIT, TYPE B (Average size)	0.00	FT	\$75.00000	\$0.00
0523	604E00800 CATCH BASIN, NO. 3A	0.00	EACH	\$1,500.00000	\$0.00
0524	604E31500 MANHOLE, NO. 3	0.00	EACH	\$3,000.00000	\$0.00
0525	604E36601 PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN	0.00	EACH	\$0.00000	\$0.00
0526	Special Pump Station (Storm)	0.00	LS	\$6,400,000.00000	\$0.00
0527	Special Stormceptors	0.00	EACH	\$5,750.00000	\$0.00
0529	Special Retention basin improvements	0.00	LS	\$10,900.00000	\$0.00

Total for Group 0025: \$0.00

**Group 0026: Other Drainage Costs**

0078	C-OC-DRNG OTHER COSTS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
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Total for Group 0026: \$0.00

**Group 0027: Mainline - Travel Lanes**

0095	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0494	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg Base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0027: \$0.00

**Group 0028: Mainline - Outside Shoulder**

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$59.00000	\$0.00
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Total for Group 0028: \$0.00

**Group 0030: Mainline - Inside Shoulder**

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$59.00000	\$0.00

Total for Group 0030: \$0.00

**Group 0031: Ramps (including shoulders)**

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0031: \$0.00

**Group 0032: Non - Mainline Lanes**

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$40.00000	\$0.00

Total for Group 0032: \$0.00

**Group 0041: Other Pavement Costs**

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

**Group 0042: Water Works**

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

**Group 0043: Sanitary Line**

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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Total for Group 0043: \$0.00

**Group 0044: Lighting - Full Interchange**

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG	0.00	EACH	\$469,000.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

MAJOR COST DRIVERS, LIGHTING

Total for Group 0044: \$0.00

**Group 0045: Lighting - Partial Interchange**

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

**Group 0046: Lighting - Continuous Roadway**

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	3,492.00	FT	\$35.00000	\$122,220.00

Total for Group 0046: \$122,220.00

**Group 0047: Other Lighting Costs**

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

**Group 0048: Traffic Surveillance**

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	1.00	LS	\$309,731.25000	\$309,731.25
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Total for Group 0048: \$309,731.25

**Group 0049: Signs**

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	0.66	MILE	\$250,000.00000	\$165,000.00

Total for Group 0049: \$165,000.00

**Group 0050: Pavement Marking**

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	1.32	MILE	\$3,000.00000	\$3,960.00
0503	644E00200 LANE LINE	0.99	MILE	\$2,000.00000	\$1,980.00

Total for Group 0050: \$5,940.00

**Group 0051: Other Traffic Control Costs**

0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
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Total for Group 0051: \$0.00

**Group 0052: Signals - Intersections**

0212	K-MC-SGNL	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

MAJOR COST DRIVERS, SIGNALS

Total for Group 0052: \$0.00

**Group 0053: Other Traffic Signal Costs**

0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0053: \$0.00

**Group 0054: Landscaping**

0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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Total for Group 0054: \$0.00

**Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing**

0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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0504	M-MC-WALL Retaining Walls	0.00	SF	\$135.00000	\$0.00
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Total for Group 0055: \$0.00

**Group 0056: Other Retaining Wall Costs**

0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0056: \$0.00

**Group 0057: Building Demolition**

0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0538	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Commercial</i>	0.00	EACH	\$30,000.00000	\$0.00
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0539	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	0.00	EACH	\$15,000.00000	\$0.00
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0540	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Residential</i>	0.00	EACH	\$12,000.00000	\$0.00
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0541	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Residential</i>	0.00	EACH	\$7,500.00000	\$0.00
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0542	202E98100 REMOVAL MISC.: <i>Radio Tower</i>	0.00	EACH	\$8,500.00000	\$0.00
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Total for Group 0057: \$0.00

**Group 0058: Noise Barrier**

0220	P-MC-NSBR	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b>Supplemental Description</b>				
	MAJOR COST DRIVERS, NOISE BARRIER				
0505	P-MC-NSBR Noise Barrier	0.00	LS	\$400.00000	\$0.00

Total for Group 0058: \$0.00

**Group 0059: Other Noise Barrier Costs**

0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00

Total for Group 0059: \$0.00

**Group 0060: New Structures**

0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	0.00	SF	\$125.00000	\$0.00
0507	R-MC-STRC Removal of Existing Structures non-complex	0.00	SF	\$12.00000	\$0.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	0.00	SF	\$17.00000	\$0.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	0.00	SF	\$30.00000	\$0.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	0.00	SF	\$150.00000	\$0.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	0.00	SF	\$200.00000	\$0.00

Total for Group 0060: \$0.00

**Group 0061: Rehabilitated Structures**

0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0533	511E34434 CLASS S CONCRETE, BRIDGE DECK <i>new bridge deck on existing beams</i>	170,177.00	SF	\$35.00000	\$5,956,195.00
0535	514E99000 SPECIAL - BRIDGE PAINTING	1.00	LS	\$22,000,000.00000	\$22,000,000.00
0536	Structural repair/rehabilitation	1.00	LS	\$1,000,000.00000	\$1,000,000.00
0537	202E11301 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN <i>Briodge deck removal</i>	170,177.00	SF	\$10.00000	\$1,701,770.00

Total for Group 0061: \$30,657,965.00

**Group 0062: Other Structure Costs**

0224	R-OC-STRC OTHER COSTS, STRUCTURES <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0534		0.00		\$0.00000	\$0.00

Total for Group 0062: \$0.00

**Group 0063: Temporary Road and Pavement Costs**

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
0225	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0063: \$0.00</b>					
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0064: \$0.00</b>					
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0065: \$0.00</b>					
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0066: \$0.00</b>					
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0067: \$0.00</b>					
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0068: \$0.00</b>					
<b>Group 0069: Innovative Contracting Incentives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0069: \$0.00</b>					
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	0.00	MILE	\$5,000,000.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0070: \$0.00</b>					
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
<b>Total for Group 0071: \$0.00</b>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0072: Misc. Costs**

0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	0.00	LS	\$10,000.00000	\$0.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$156,414.28000	\$156,414.28
0239	614E11000 MAINTAINING TRAFFIC 2%	0.00	LS	\$0.00000	\$0.00
0240	619E16020 FIELD OFFICE, TYPE C	19.00	MNTH	\$2,500.00000	\$47,500.00
0242	624E10000 MOBILIZATION	1.00	LS	\$800,000.00000	\$800,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$156,414.28000	\$156,414.28

Total for Group 0072: \$1,160,328.56

**Group 0073: Design Contingency Costs**

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS 25%	1.00	LS	\$8,110,796.20000	\$8,110,796.20

Total for Group 0073: \$8,110,796.20

**Group 0074: Inflation Contingency**

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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Total for Group 0074: \$0.00

## Estimate Alt E OH cont 2

Estimated Cost: \$12,341,802.99

Contingency: 29.20%

**Estimated Total: \$15,945,609.46**

*Linn St Bridge Replacement and Gest St Reconstruction*

Base Date: 07/22/10

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District: 8

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	15,372.00	SY	\$8.00000	\$122,976.00

Total for Group 0001: \$122,976.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$30.00000	\$0.00
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Total for Group 0002: \$0.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	9,087.00	CY	\$8.00000	\$72,696.00

Total for Group 0003: \$72,696.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	9,087.00	CY	\$6.00000	\$54,522.00

Total for Group 0005: \$54,522.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$8.00000	\$0.00
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Total for Group 0007: \$0.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	0.00	FT	\$110.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$0.00

**Group 0009: Subgrade Treatment - Lime**

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

**Group 0010: Subgrade Treatment - Cement**

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	13,837.00	SY	\$2.50000	\$34,592.50
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Total for Group 0010: \$34,592.50

**Group 0011: Subgrade Treatment - Undercut & Backfill**

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

**Group 0012: Other Roadway Costs**

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$2,200.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0028	202E35200 PIPE REMOVED, OVER 24"	0.00	FT	\$0.00000	\$0.00
0029	202E38000 GUARDRAIL REMOVED	0.00	FT	\$0.00000	\$0.00
0030	202E42206 ANCHOR ASSEMBLY REMOVED	0.00	EACH	\$0.00000	\$0.00
0031	202E58000 MANHOLE REMOVED	0.00	EACH	\$0.00000	\$0.00
0032	202E58100 CATCH BASIN REMOVED	0.00	EACH	\$0.00000	\$0.00
0033	202E75000 FENCE REMOVED	0.00	FT	\$0.00000	\$0.00
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>PROOF ROLLING</b>				
0035	204E10000	0.00	SY	\$0.81000	\$0.00
	SUBGRADE COMPACTION				
0036	451E30000	0.00	FT	\$0.00000	\$0.00
	SPECIAL - PRESSURE RELIEF JOINT, TYPE A				
0037	606E13000	0.00	FT	\$14.00000	\$0.00
	GUARDRAIL, TYPE 5				
0038	606E22000	0.00	EACH	\$1,411.29597	\$0.00
	ANCHOR ASSEMBLY, TYPE B-98				
0039	606E22010	0.00	EACH	\$1,712.52574	\$0.00
	ANCHOR ASSEMBLY, TYPE E-98				
0040	606E26500	0.00	EACH	\$487.23435	\$0.00
	ANCHOR ASSEMBLY, TYPE T				
0041	606E35000	0.00	EACH	\$969.12750	\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 1				
0042	606E35100	0.00	EACH	\$338.36354	\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 2				
0043	606E60010	0.00	EACH	\$3,439.05897	\$0.00
	IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)				
0044	607E15000	0.00	FT	\$0.00000	\$0.00
	FENCE, TYPE 47				
	<i>For Fencing</i>				
0423	304E20000	0.00	CY	\$0.00000	\$0.00
	AGGREGATE BASE				
	<i>For Fencing</i>				
0424	601E32100	0.00	CY	\$0.00000	\$0.00
	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER				
	<i>For Fencing</i>				
0425	607E40500	0.00	EACH	\$731.31641	\$0.00
	GATE, TYPE 47				
	<i>For Fencing</i>				
0426	625E32000	0.00	EACH	\$0.00000	\$0.00
	GROUND ROD				
	<i>For Fencing</i>				
0466		0.00		\$0.00000	\$0.00
<b>Total for Group 0012: \$0.00</b>					

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0467	659E10000	2,746.00	SY	\$1.00000	\$2,746.00
	SEEDING AND MULCHING				
0531	660E25000	0.00	SY	\$15.00000	\$0.00
	SODDING STAKED				
<b>Total for Group 0014: \$2,746.00</b>					

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0469	601E32000	0.00	CY	\$75.00000	\$0.00
	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER				
<b>Total for Group 0015: \$0.00</b>					

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<b>MAJOR COST DRIVERS, EROSION CONTROL</b>					
0470	832E10000	1.00	LS	\$20,000.00000	\$20,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0471	832E20000	6,000.00	EACH	\$1.00000	\$6,000.00
EROSION CONTROL					

Total for Group 0016: \$26,000.00

**Group 0017: Other Erosion Control Costs**

0049	670E00700	0.00	SY	\$0.00000	\$0.00
DITCH EROSION PROTECTION					
0050	B-OC-ERCO	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, EROSION CONTROL					
0051	659E00100	0.00	EACH	\$0.00000	\$0.00
SOIL ANALYSIS TEST					
0052	659E00300	0.00	CY	\$0.00000	\$0.00
TOPSOIL					
0053	659E14000	0.00	SY	\$0.00000	\$0.00
REPAIR SEEDING AND MULCHING					
0054	659E15000	0.00	SY	\$0.71000	\$0.00
INTER-SEEDING					
0055	659E20000	0.00	TON	\$410.06813	\$0.00
COMMERCIAL FERTILIZER					
0056	659E31000	0.00	ACRE	\$0.00000	\$0.00
LIME					
0057	659E35000	0.00	MGAL	\$5.00000	\$0.00
WATER					
0058	659E40000	0.00	MSF	\$0.00000	\$0.00
MOWING					

Total for Group 0017: \$0.00

**Group 0018: Underdrains**

0059	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0062	605E05100	4,644.00	FT	\$8.00000	\$37,152.00
4" SHALLOW PIPE UNDERDRAINS					

Total for Group 0018: \$37,152.00

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0480	C-MC-DRNG	0.00	FT	\$350.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>					
0481	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0019: \$0.00

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0476	C-MC-DRNG	0.00	FT	\$550.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"*

0477	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete - Headwalls/wingwalls</i>					

Total for Group 0021: \$0.00

**Group 0022: Culverts, Type A: 10' - 20'**

0486	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0487	C-MC-DRNG	0.00	FT	\$1,400.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>					

0488	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0022: \$0.00

**Group 0024: BMP's**

0076	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

Total for Group 0024: \$0.00

**Group 0025: Closed Storm System**

0077	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0489	603E13400	1,647.00	FT	\$75.00000	\$123,525.00
30" CONDUIT, TYPE B (Average size)					

0523	604E00800	21.00	EACH	\$1,500.00000	\$31,500.00
CATCH BASIN, NO. 3A					

0524	604E31500	3.00	EACH	\$3,000.00000	\$9,000.00
MANHOLE, NO. 3					

0525		0.00		\$0.00000	\$0.00
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0526	Special	0.00	LS	\$6,400,000.00000	\$0.00
Pump Station (Storm)					

0527	Special	0.00	EACH	\$5,750.00000	\$0.00
Stormceptors					

0529	Special	0.00	LS	\$109,000.00000	\$0.00
Retention basin improvements					

Total for Group 0025: \$164,025.00

**Group 0026: Other Drainage Costs**

0078	C-OC-DRNG	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, DRAINAGE					

Total for Group 0026: \$0.00

**Group 0027: Mainline - Travel Lanes**

0095	D-MC-PVMT	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT					

0494	D-MC-PVMT	0.00	SY	\$68.00000	\$0.00
13" Reinforced Concrete Pavement					
<i>Includes 6" Agg Base and Subgrade Compaction</i>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0027: \$0.00

**Group 0028: Mainline - Outside Shoulder**

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0028: \$0.00

**Group 0030: Mainline - Inside Shoulder**

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0030: \$0.00

**Group 0031: Ramps (including shoulders)**

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0031: \$0.00

**Group 0032: Non - Mainline Lanes**

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	13,837.00	SY	\$41.00000	\$567,317.00

Total for Group 0032: \$567,317.00

**Group 0041: Other Pavement Costs**

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

**Group 0042: Water Works**

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

**Group 0043: Sanitary Line**

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0043: \$0.00

Group 0044: Lighting - Full Interchange

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	EACH	\$469,000.00000	\$0.00

Total for Group 0044: \$0.00

Group 0045: Lighting - Partial Interchange

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

Group 0046: Lighting - Continuous Roadway

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	2,640.00	FT	\$35.00000	\$92,400.00

Total for Group 0046: \$92,400.00

Group 0047: Other Lighting Costs

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

Group 0048: Traffic Surveillance

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	0.00	LS	\$0.00000	\$0.00
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Total for Group 0048: \$0.00

Group 0049: Signs

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	0.50	MILE	\$250,000.00000	\$125,000.00
0532		0.00		\$0.00000	\$0.00

Total for Group 0049: \$125,000.00

Group 0050: Pavement Marking

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	1.04	MILE	\$3,000.00000	\$3,120.00
0503	644E00200 LANE LINE	1.09	MILE	\$2,000.00000	\$2,180.00

Total for Group 0050: \$5,300.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
<b>Group 0051: Other Traffic Control Costs</b>					
0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
				<b>Total for Group 0051: \$0.00</b>	
<b>Group 0052: Signals - Intersections</b>					
0212	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS	1.00	LS	\$175,000.00000	\$175,000.00
				<b>Total for Group 0052: \$175,000.00</b>	
<b>Group 0053: Other Traffic Signal Costs</b>					
0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
				<b>Total for Group 0053: \$0.00</b>	
<b>Group 0054: Landscaping</b>					
0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
				<b>Total for Group 0054: \$0.00</b>	
<b>Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing</b>					
0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
0504	M-MC-WALL Retaining Walls	11,840.00	SF	\$135.00000	\$1,598,400.00
				<b>Total for Group 0055: \$1,598,400.00</b>	
<b>Group 0056: Other Retaining Wall Costs</b>					
0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
				<b>Total for Group 0056: \$0.00</b>	
<b>Group 0057: Building Demolition</b>					
0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
0534	202E98100 REMOVAL MISC.: <i>Radio Tower</i>	0.00	EACH	\$8,500.00000	\$0.00
0535	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Residential</i>	0.00	EACH	\$7,500.00000	\$0.00
0536	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	0.00	EACH	\$15,000.00000	\$0.00
0537	202E56101 BUILDING DEMOLISHED, AS PER PLAN	0.00	EACH	\$12,000.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Large Residential*

0538	202E56101	0.00	EACH	\$30,000.00000	\$0.00
BUILDING DEMOLISHED, AS PER PLAN					
<i>Large Commercial</i>					

Total for Group 0057: \$0.00

**Group 0058: Noise Barrier**

0220	P-MC-NSBR	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, NOISE BARRIER					
0505	P-MC-NSBR	0.00	LS	\$25.00000	\$0.00
Noise Barrier					

Total for Group 0058: \$0.00

**Group 0059: Other Noise Barrier Costs**

0221	P-OC-NSBR	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, NOISE BARRIER					
0368	P-MC-NSBR	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, NOISE BARRIER					

Total for Group 0059: \$0.00

**Group 0060: New Structures**

0222	R-MC-STRC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, STRUCTURES					
0506	R-MC-STRC	40,364.00	SF	\$125.00000	\$5,045,500.00
Tier 1 Structures to 25' Height					
0507	R-MC-STRC	0.00	SF	\$12.00000	\$0.00
Removal of Existing Structures non-complex					
0508	R-MC-STRC	57,459.00	SF	\$17.00000	\$976,803.00
Standard Removal of Existing Structures above average complex					
0509	R-MC-STRC	0.00	SF	\$30.00000	\$0.00
Removal of Existing Structures complex to very complex					
0513	R-MC-STRC	0.00	SF	\$150.00000	\$0.00
Tier 2 Structures 25' to 50' Height					
0516	R-MC-STRC	0.00	SF	\$200.00000	\$0.00
Tier 3 Structures 50' to 75' Height					

Total for Group 0060: \$6,022,303.00

**Group 0061: Rehabilitated Structures**

0223	R-MC-STRC	0.00	SF	\$45.00000	\$0.00
MAJOR COST DRIVERS, STRUCTURES					

Total for Group 0061: \$0.00

**Group 0062: Other Structure Costs**

0224	R-OC-STRC	0.00	LS	\$0.00000	\$0.00
OTHER COSTS, STRUCTURES					
<i>Contingency</i>					

Total for Group 0062: \$0.00

**Group 0063: Temporary Road and Pavement Costs**

0225	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
<b>Total for Group 0063:</b>					<b>\$0.00</b>
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0064:</b>					<b>\$0.00</b>
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0065:</b>					<b>\$0.00</b>
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0066:</b>					<b>\$0.00</b>
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0067:</b>					<b>\$0.00</b>
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0068:</b>					<b>\$0.00</b>
<b>Group 0069: Innovative Contracting Incentatives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0069:</b>					<b>\$0.00</b>
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	0.50	MILE	\$500,000.00000	\$250,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0533		0.00		\$0.00000	\$0.00
<b>Total for Group 0070:</b>					<b>\$250,000.00</b>
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
<b>Total for Group 0071:</b>					<b>\$0.00</b>

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0072: Misc. Costs**

0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	0.00	LS	\$10,000.00000	\$0.00
0237	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$46,752.15000	\$46,752.15
0239	614E11000 MAINTAINING TRAFFIC 2%	1.00	LS	\$187,008.59000	\$187,008.59
0240	619E16020 FIELD OFFICE, TYPE C	17.00	MNTH	\$2,500.00000	\$42,500.00
0242	624E10000 MOBILIZATION	1.00	LS	\$200,000.00000	\$200,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$46,752.15000	\$46,752.15

Total for Group 0072: \$523,012.89

**Group 0073: Design Contingency Costs**

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS 25%	1.00	LS	\$2,468,360.60000	\$2,468,360.60

Total for Group 0073: \$2,468,360.60

**Group 0074: Inflation Contingency**

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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Total for Group 0074: \$0.00

Macro View

										Attributes					
Acquisition	Unit (SF) or (Acreage)	X	Cost/Unit (\$\$/SF) (\$\$/Acre)	Subtotal Land Value	+	Structure Values (if Taken)	+	Damages (Loss in Value to the Residue)	Subtotal Structures & Damages	=	Total Non Labor Acquisition Costs	Parcel Count	Total Takes	Partial Takes	No. of Structures Impacted
-Residential	0	X	\$0.00	\$0	+	0	+	N/A	\$0.00	=	\$0.00	0	0	0	0
-Commercial	0.25	X	\$330,153.78	\$82,538	+	0	+	N/A	\$0.00	=	\$82,538.45	3	0	3	0
-Industrial	0	X	\$0.00	\$0	+	0	+	N/A	\$0.00	=	\$0.00	0	0	0	0
-Agricultural	0	X	\$0.00	\$0	+	0	+	N/A	\$0.00	=	\$0.00	0	0	0	0
Relocation	Unit (Displacement)	X	*RHP/*RSP		+	Move Cost	+	Reestablishment		=	Total Non Labor RAP Costs	Estimate amount of time necessary to relocate all RAP parcels = (months) 18			
-Residential Owner Occupant	0	X	\$34,000		+	\$6,000				=	\$0	Estimate number of years until project wide R/W acquisition begins = 1.75			
-Residential Tenant	0	X	\$10,000		+	\$1,750				=	\$0				
-Commerical/Farm/NPO Owner	0				X	\$15,000	+	\$10,000		=	\$0				
-Commerical/Farm/NPO Tenant	0				X	\$15,000	+	\$10,000		=	\$0				
-Personal Property	0				X	\$1,000				=	\$0				
$\{((\text{Total Cost of Acquisition Cost}) \times 0.90) \times 0.025\} + \{((\text{Total of Acquisition Cost}) \times 0.15) \times 1.20\} + \{((\text{Total of Acquisition Cost}) \times 0.10) \times 1.50\} = \text{Contingency}$									Contingency (Incidentals, Admin. Review & Appropriation)		29094.80186	*RHP - Replacement Housing Payment *RSP - Rent Supplemental Payment *NPO - Non-Profit Organization			
<b>Total Non Labor R/W Costs</b>											\$111,633.25				

**Instruction for Acquisition & Relocation Cost Estimates**

Estimate the total number of acres involved in the project and allocate those acres into the four categories shown.

Assign an average unit price for each category. These unit prices are typically taken from the auditors tax card data. Cost Estimates prepared at Step 4 (Step 7 on Major Projects) and thereafter must base unit prices on a project sales data book instead of tax card data.

Add structure values from the auditors tax cards only if the structures are taken.

Damages must be assessed by a pre-qualified expert with experience in Before & After analysis. This usually occurs at Step 4 for Minor projects (Step 6 on Major Projects) and requires some knowledge of the impacts of the project on structures.

Relocation Cost Estimates must consider the complexity of the move process. All move estimates that involve a business or a multi-tenant residential structure should use the services of a relocation Assistance professional to accurately gauge costs.

Macro View

Labor (External)	Unit (Parcels)	X	Unit Price	=	Total Cost
Titles	3	X	\$400	=	\$1,200
Appraisal					
-Simple	0	X	\$750	=	\$0
-Detailed	3	X	\$4,500	=	\$13,500
Appraisal Review					
-Simple	0	X	\$500	=	\$0
-Detailed	3	X	\$2,000	=	\$6,000
Negotiations	3	X	\$1,100	=	\$3,300
Relocations					
-Personal Property	0	X	\$1,500	=	\$0
-Residential	0	X	\$5,200	=	\$0
-Commercial/Farm/*NPO	0	X	\$5,600	=	\$0
Closings	3	X	\$400	=	\$1,200
Project Management	3	X	\$550	=	\$1,650
Asbestos Testing & Abatement		X		=	
<b>Total Labor Costs</b>					\$26,850

\*NPO = Non-Profit Organization

This R/W Cost Estimate Prepared by	Date
Chris Clemons	8/4/2010
This R/W Cost Estimate was performed at Step <u>6</u> of the PDP for <u>MAJOR</u> Projects using _____	

<b>Total Labor Costs</b>	\$26,850.00
<b>Total Non Labor R/W Costs</b>	\$111,633.25
<b>Inflation Adjustments</b>	\$8,447.48
<b>Total R/W Costs</b>	<b>\$146,930.73</b>

**Instructions for Labor Cost Estimates**

Labor costs are a function of time, distance, and talent. Labor costs estimates should reflect the complexity of the project and the talent necessary to acquire the right of way in a timely manner. The person making the cost estimate may adjust the figures given for the particular project being estimated to reflect local labor costs. It is critical that the estimate be labeled to reflect the alignment alternative, the step in the PDP process and the person(s) performing the estimate.

**Comments**

Cost/Unit were generated from auditors tax card data.

**P.D.P. R/W Cost Estimator**



## Estimate Alt E OH cont 3

Estimated Cost: \$23,264,774.05

Contingency: 32.90%

**Estimated Total: \$30,918,884.71**

*OH-3 Ezzard Charles - Bridge Replacement, Western Ave Reconst., Freeman, Winchell, Court, 9th*

Base Date: 07/22/10

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District: 8

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	21,262.00	SY	\$8.00000	\$170,096.00

Total for Group 0001: \$170,096.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$30.00000	\$0.00
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Total for Group 0002: \$0.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	74,822.00	CY	\$8.00000	\$598,576.00

Total for Group 0003: \$598,576.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	74,822.00	CY	\$6.00000	\$448,932.00

Total for Group 0005: \$448,932.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$8.00000	\$0.00
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Total for Group 0007: \$0.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	2,420.00	FT	\$110.00000	\$266,200.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<u>Description</u>				
	<u>Supplemental Description</u>				

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$266,200.00

## Group 0009: Subgrade Treatment - Lime

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

## Group 0010: Subgrade Treatment - Cement

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	32,714.00	SY	\$2.50000	\$81,785.00
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Total for Group 0010: \$81,785.00

## Group 0011: Subgrade Treatment - Undercut &amp; Backfill

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

## Group 0012: Other Roadway Costs

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0028	202E35200 PIPE REMOVED, OVER 24"	0.00	FT	\$0.00000	\$0.00
0029	202E38000 GUARDRAIL REMOVED	0.00	FT	\$0.00000	\$0.00
0030	202E42206 ANCHOR ASSEMBLY REMOVED	0.00	EACH	\$0.00000	\$0.00
0031	202E58000 MANHOLE REMOVED	0.00	EACH	\$0.00000	\$0.00
0032	202E58100 CATCH BASIN REMOVED	0.00	EACH	\$0.00000	\$0.00
0033	202E75000 FENCE REMOVED	0.00	FT	\$0.00000	\$0.00
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>PROOF ROLLING</b>				
0035	204E10000	0.00	SY	\$0.81000	\$0.00
	SUBGRADE COMPACTION				
0036	451E30000	0.00	FT	\$0.00000	\$0.00
	SPECIAL - PRESSURE RELIEF JOINT, TYPE A				
0037	606E13000	0.00	FT	\$14.00000	\$0.00
	GUARDRAIL, TYPE 5				
0038	606E22000	0.00	EACH	\$1,411.29597	\$0.00
	ANCHOR ASSEMBLY, TYPE B-98				
0039	606E22010	0.00	EACH	\$1,712.52574	\$0.00
	ANCHOR ASSEMBLY, TYPE E-98				
0040	606E26500	0.00	EACH	\$487.23435	\$0.00
	ANCHOR ASSEMBLY, TYPE T				
0041	606E35000	0.00	EACH	\$969.12750	\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 1				
0042	606E35100	0.00	EACH	\$338.36354	\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 2				
0043	606E60010	0.00	EACH	\$3,439.05897	\$0.00
	IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)				
0044	607E15000	0.00	FT	\$0.00000	\$0.00
	FENCE, TYPE 47				
	<i>For Fencing</i>				
0423	304E20000	0.00	CY	\$0.00000	\$0.00
	AGGREGATE BASE				
	<i>For Fencing</i>				
0424	601E32100	0.00	CY	\$0.00000	\$0.00
	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER				
	<i>For Fencing</i>				
0425	607E40500	0.00	EACH	\$731.31641	\$0.00
	GATE, TYPE 47				
	<i>For Fencing</i>				
0426	625E32000	0.00	EACH	\$0.00000	\$0.00
	GROUND ROD				
	<i>For Fencing</i>				
0466		0.00		\$0.00000	\$0.00
<b>Total for Group 0012: \$0.00</b>					

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0467	659E10000	21,752.00	SY	\$1.00000	\$21,752.00
	SEEDING AND MULCHING				
0531	660E25000	0.00	SY	\$15.00000	\$0.00
	SODDING STAKED				
<b>Total for Group 0014: \$21,752.00</b>					

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0469	601E32000	0.00	CY	\$75.00000	\$0.00
	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER				
<b>Total for Group 0015: \$0.00</b>					

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<b>MAJOR COST DRIVERS, EROSION CONTROL</b>					
0470	832E10000	1.00	LS	\$50,000.00000	\$50,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0471	832E20000	35,000.00	EACH	\$1.00000	\$35,000.00
EROSION CONTROL					

Total for Group 0016: \$85,000.00

**Group 0017: Other Erosion Control Costs**

0049	670E00700	0.00	SY	\$0.00000	\$0.00
DITCH EROSION PROTECTION					
0050	B-OC-ERCO	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, EROSION CONTROL					
0051	659E00100	0.00	EACH	\$0.00000	\$0.00
SOIL ANALYSIS TEST					
0052	659E00300	0.00	CY	\$0.00000	\$0.00
TOPSOIL					
0053	659E14000	0.00	SY	\$0.00000	\$0.00
REPAIR SEEDING AND MULCHING					
0054	659E15000	0.00	SY	\$0.71000	\$0.00
INTER-SEEDING					
0055	659E20000	0.00	TON	\$410.06813	\$0.00
COMMERCIAL FERTILIZER					
0056	659E31000	0.00	ACRE	\$0.00000	\$0.00
LIME					
0057	659E35000	0.00	MGAL	\$5.00000	\$0.00
WATER					
0058	659E40000	0.00	MSF	\$0.00000	\$0.00
MOWING					

Total for Group 0017: \$0.00

**Group 0018: Underdrains**

0059	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0062	605E05100	27,245.00	FT	\$8.00000	\$217,960.00
4" SHALLOW PIPE UNDERDRAINS					

Total for Group 0018: \$217,960.00

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0480	C-MC-DRNG	0.00	FT	\$350.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>					
0481	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0019: \$0.00

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0476	C-MC-DRNG	0.00	FT	\$550.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"*

0477	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete - Headwalls/wingwalls</i>					

Total for Group 0021: \$0.00

**Group 0022: Culverts, Type A: 10' - 20'**

0486	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0487	C-MC-DRNG	0.00	FT	\$1,400.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>					

0488	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0022: \$0.00

**Group 0024: BMP's**

0076	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

Total for Group 0024: \$0.00

**Group 0025: Closed Storm System**

0077	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0489	603E13400	1,679.00	FT	\$75.00000	\$125,925.00
30" CONDUIT, TYPE B (Average size)					

0523	604E00800	28.00	EACH	\$1,500.00000	\$42,000.00
CATCH BASIN, NO. 3A					

0524	604E31500	4.00	EACH	\$3,000.00000	\$12,000.00
MANHOLE, NO. 3					

0526	Special	0.00	LS	\$6,400,000.00000	\$0.00
Pump Station (Storm)					

0527	Special	0.00	EACH	\$5,750.00000	\$0.00
Stormceptors					

0529	Special	0.00	LS	\$109,000.00000	\$0.00
Retention basin improvements					

0533	604E36601	0.00	EACH	\$0.00000	\$0.00
PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN					

Total for Group 0025: \$179,925.00

**Group 0026: Other Drainage Costs**

0078	C-OC-DRNG	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, DRAINAGE					

Total for Group 0026: \$0.00

**Group 0027: Mainline - Travel Lanes**

0095	D-MC-PVMT	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT					

0494	D-MC-PVMT	0.00	SY	\$68.00000	\$0.00
13" Reinforced Concrete Pavement					
<i>Includes 6" Agg Base and Subgrade Compaction</i>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0027: \$0.00

Group 0028: Mainline - Outside Shoulder

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0028: \$0.00

Group 0030: Mainline - Inside Shoulder

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0030: \$0.00

Group 0031: Ramps (including shoulders)

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	8,088.00	SY	\$68.00000	\$549,984.00

Total for Group 0031: \$549,984.00

Group 0032: Non - Mainline Lanes

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	24,626.00	SY	\$41.00000	\$1,009,666.00
0534	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Commercial</i>	0.00	EACH	\$30,000.00000	\$0.00
0535	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Residential</i>	0.00	EACH	\$12,000.00000	\$0.00
0536	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	0.00	EACH	\$15,000.00000	\$0.00
0537	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Residential</i>	0.00	EACH	\$7,500.00000	\$0.00
0538	202E98100 REMOVAL MISC.: <i>Radio Tower</i>	0.00	EACH	\$8,500.00000	\$0.00

Total for Group 0032: \$1,009,666.00

Group 0041: Other Pavement Costs

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0041: \$0.00

**Group 0042: Water Works**

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

**Group 0043: Sanitary Line**

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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Total for Group 0043: \$0.00

**Group 0044: Lighting - Full Interchange**

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	EACH	\$469,000.00000	\$0.00

Total for Group 0044: \$0.00

**Group 0045: Lighting - Partial Interchange**

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

**Group 0046: Lighting - Continuous Roadway**

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	3,696.00	FT	\$35.00000	\$129,360.00

Total for Group 0046: \$129,360.00

**Group 0047: Other Lighting Costs**

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

**Group 0048: Traffic Surveillance**

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	0.00	LS	\$0.00000	\$0.00
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Total for Group 0048: \$0.00

**Group 0049: Signs**

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	0.70	MILE	\$250,000.00000	\$175,000.00



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0049: \$175,000.00

Group 0050: Pavement Marking

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	4.04	MILE	\$3,000.00000	\$12,120.00
0503	644E00200 LANE LINE	0.85	MILE	\$2,000.00000	\$1,700.00

Total for Group 0050: \$13,820.00

Group 0051: Other Traffic Control Costs

0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
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Total for Group 0051: \$0.00

Group 0052: Signals - Intersections

0212	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0052: \$0.00

Group 0053: Other Traffic Signal Costs

0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0053: \$0.00

Group 0054: Landscaping

0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00

Total for Group 0054: \$0.00

Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing

0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
0504	M-MC-WALL Retaining Walls	33,465.00	SF	\$135.00000	\$4,517,775.00

Total for Group 0055: \$4,517,775.00

Group 0056: Other Retaining Wall Costs

0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0056: \$0.00

Group 0057: Building Demolition

0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
<b>Total for Group 0057:</b>					<b>\$0.00</b>

**Group 0058: Noise Barrier**

0220	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0505	P-MC-NSBR Noise Barrier	13,370.00	SF	\$25.00000	\$334,250.00
<b>Total for Group 0058:</b>					<b>\$334,250.00</b>

**Group 0059: Other Noise Barrier Costs**

0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00
<b>Total for Group 0059:</b>					<b>\$0.00</b>

**Group 0060: New Structures**

0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	63,551.00	SF	\$125.00000	\$7,943,875.00
0507	R-MC-STRC Removal of Existing Structures non-complex	2,637.00	SF	\$12.00000	\$31,644.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	28,124.00	SF	\$17.00000	\$478,108.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	0.00	SF	\$30.00000	\$0.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	0.00	SF	\$150.00000	\$0.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	0.00	SF	\$200.00000	\$0.00
<b>Total for Group 0060:</b>					<b>\$8,453,627.00</b>

**Group 0061: Rehabilitated Structures**

0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	0.00	SF	\$45.00000	\$0.00
<b>Total for Group 0061:</b>					<b>\$0.00</b>

**Group 0062: Other Structure Costs**

0224	R-OC-STRC OTHER COSTS, STRUCTURES Contingency	0.00	LS	\$0.00000	\$0.00
<b>Total for Group 0062:</b>					<b>\$0.00</b>

**Group 0063: Temporary Road and Pavement Costs**

0225	S-MC-MNTC MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
					Total for Group 0063: \$0.00
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
					Total for Group 0064: \$0.00
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
					Total for Group 0065: \$0.00
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
					Total for Group 0066: \$0.00
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
					Total for Group 0067: \$0.00
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
					Total for Group 0068: \$0.00
<b>Group 0069: Innovative Contracting Incentatives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
					Total for Group 0069: \$0.00
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	0.70	MILE	\$500,000.00000	\$350,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
					Total for Group 0070: \$350,000.00
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
					Total for Group 0071: \$0.00
<b>Group 0072: Misc. Costs</b>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b><u>Supplemental Description</u></b>				
0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	0.00	LS	\$10,000.00000	\$0.00
0239	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$88,018.54000	\$88,018.54
0240	614E11000 MAINTAINING TRAFFIC 2%	1.00	LS	\$352,074.16000	\$352,074.16
0241	619E16020 FIELD OFFICE, TYPE C	32.00	MNTH	\$2,500.00000	\$80,000.00
0242	624E10000 MOBILIZATION	1.00	LS	\$400,000.00000	\$400,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$88,018.54000	\$88,018.54
0518		0.00		\$0.00000	\$0.00
0519		0.00		\$0.00000	\$0.00
0520		0.00		\$0.00000	\$0.00
0521		0.00		\$0.00000	\$0.00
0532		0.00		\$0.00000	\$0.00
<b>Total for Group 0072:</b>					<b>\$1,008,111.24</b>

**Group 0073: Design Contingency Costs**

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS 25%	1.00	LS	\$4,652,954.81000	\$4,652,954.81

**Total for Group 0073: \$4,652,954.81**

**Group 0074: Inflation Contingency**

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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**Total for Group 0074: \$0.00**

PID

89065

County

HAM

Route

75

Section

1.15

This R/W Acquisition cost estimate is prepared for Alternative

E

Macro View

Macro View										Attributes					
Acquisition	Unit (SF) or (Acreage)	X	Cost/Unit (\$\$/SF) (\$\$/Acre)	Subtotal Land Value	+	Structure Values (if Taken)	+	Damages (Loss in Value to the Residue)	=	Subtotal Structures & Damages	Total Non Labor Acquisition Costs	Parcel Count	Total Takes	Partial Takes	No. of Structures Impacted
-Residential	8.71	X	\$2.33	\$20	+	0	+	N/A	=	\$0.00	\$20.29	1	0	1	0
-Commercial	0.07	X	\$96,828.08	\$6,778	+	0	+	N/A	=	\$0.00	\$6,777.97	1	0	1	0
-Industrial	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	\$0.00	0	0	0	0
-Park	0.21	X	\$955.66	\$201	+	0	+	N/A	=	\$0.00	\$200.69	1	0	1	0
Relocation	Unit (Displacement)	X	*RHP/*RSP		+	Move Cost	+	Reestablishment	=	Total Non Labor RAP Costs	Estimate amount of time necessary to relocate all RAP parcels = (months) 18				
-Residential Owner Occupant	0	X	\$34,000		+	\$6,000			=	\$0	Estimate number of years until project wide R/W acquisition begins = 1.75				
-Residential Tenant	0	X	\$10,000		+	\$1,750			=	\$0					
-Commerical/Farm/NPO Owner	0				X	\$15,000	+	\$10,000	=	\$0					
-Commerical/Farm/NPO Tenant	0				X	\$15,000	+	\$10,000	=	\$0					
-Personal Property	0				X	\$1,000			=	\$0					
$\{((\text{Total Cost of Acquisition Cost}) \times 0.90) \times 0.025\} + \{((\text{Total of Acquisition Cost}) \times 0.15) \times 1.20\} + \{((\text{Total of Acquisition Cost}) \times 0.10) \times 1.50\} = \text{Contingency}$									Contingency (Incidentals, Admin. Review & Appropriation)		2467.129346		*RHP - Replacement Housing Payment *RSP - Rent Supplemental Payment *NPO - Non-Profit Organization		
										<b>Total Non Labor R/W Costs</b>		\$9,466.08			

**Instruction for Acquisition & Relocation Cost Estimates**

Estimate the total number of acres involved in the project and allocate those acres into the four categories shown.

Assign an average unit price for each category. These unit prices are typically taken from the auditors tax card data. Cost Estimates prepared at Step 4 (Step 7 on Major Projects) and thereafter must base unit prices on a project sales data book instead of tax card data.

Add structure values from the auditors tax cards only if the structures are taken.

Damages must be assessed by a pre-qualified expert with experience in Before & After analysis. This usually occurs at Step 4 for Minor projects (Step 6 on Major Projects) and requires some knowledge of the impacts of the project on structures.

Relocation Cost Estimates must consider the complexity of the move process. All move estimates that involve a business or a multi-tenant residential structure should use the services of a relocation Assistance professional to accurately gauge costs.

Macro View

Labor (External)	Unit (Parcels)	X	Unit Price	=	Total Cost
Titles	3	X	\$400	=	\$1,200
Appraisal -Simple	1	X	\$750	=	\$750
-Detailed	2	X	\$4,500	=	\$9,000
Appraisal Review -Simple	1	X	\$500	=	\$500
-Detailed	2	X	\$2,000	=	\$4,000
Negotiations	2	X	\$1,100	=	\$2,200
Relocations -Personal Property	0	X	\$1,500	=	\$0
-Residential	0	X	\$5,200	=	\$0
-Commercial/Farm/*NPO	0	X	\$5,600	=	\$0
Closings	3	X	\$400	=	\$1,200
Project Management	3	X	\$550	=	\$1,650
Asbestos Testing & Abatement		X		=	
<b>Total Labor Costs</b>					<b>\$20,500</b>

\*NPO = Non-Profit Organization

This R/W Cost Estimate Prepared by	Date
Chris Clemons	8/4/2010
This R/W Cost Estimate was performed at Step 6 of the PDP for MAJOR Projects using	

<b>Total Labor Costs</b>	\$20,500.00
<b>Total Non Labor R/W Costs</b>	\$9,466.08
<b>Inflation Adjustments</b>	\$1,827.93
<b>Total R/W Costs</b>	<b>\$31,794.01</b>

**Instructions for Labor Cost Estimates**

Labor costs are a function of time, distance, and talent. Labor costs estimates should reflect the complexity of the project and the talent necessary to acquire the right of way in a timely manner. The person making the cost estimate may adjust the figures given for the particular project being estimated to reflect local labor costs. It is critical that the estimate be labeled to reflect the alignment alternative, the step in the PDP process and the person(s) performing the estimate.

**Comments**

Cost/Unit were generated from auditors tax card data. Changed "Agriculture" category to "Park" to include the Queensgate Ball Fields.

**P.D.P. R/W Cost Estimator**

## Estimate Alt E OH cont 4

Estimated Cost: \$40,561,231.89

Contingency: 32.90%

**Estimated Total: \$53,905,877.18**

*OH-4 Seventh St, Eighth St, Ninth Street and 6th St northbound entrance ramps*

Base Date: 07/22/10

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District: 8

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	8,349.00	SY	\$8.00000	\$66,792.00

Total for Group 0001: \$66,792.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$30.00000	\$0.00
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Total for Group 0002: \$0.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	11,864.00	CY	\$8.00000	\$94,912.00

Total for Group 0003: \$94,912.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	11,864.00	CY	\$6.00000	\$71,184.00

Total for Group 0005: \$71,184.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$8.00000	\$0.00
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Total for Group 0007: \$0.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	2,905.00	FT	\$110.00000	\$319,550.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<u>Description</u>				
	<u>Supplemental Description</u>				

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$319,550.00

## Group 0009: Subgrade Treatment - Lime

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

## Group 0010: Subgrade Treatment - Cement

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	8,083.00	SY	\$2.50000	\$20,207.50
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Total for Group 0010: \$20,207.50

## Group 0011: Subgrade Treatment - Undercut &amp; Backfill

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

## Group 0012: Other Roadway Costs

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0028	202E35200 PIPE REMOVED, OVER 24"	0.00	FT	\$0.00000	\$0.00
0029	202E38000 GUARDRAIL REMOVED	0.00	FT	\$0.00000	\$0.00
0030	202E42206 ANCHOR ASSEMBLY REMOVED	0.00	EACH	\$0.00000	\$0.00
0031	202E58000 MANHOLE REMOVED	0.00	EACH	\$0.00000	\$0.00
0032	202E58100 CATCH BASIN REMOVED	0.00	EACH	\$0.00000	\$0.00
0033	202E75000 FENCE REMOVED	0.00	FT	\$0.00000	\$0.00
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
PROOF ROLLING					
0035	204E10000	0.00	SY	\$0.81000	\$0.00
SUBGRADE COMPACTION					
0036	451E30000	0.00	FT	\$0.00000	\$0.00
SPECIAL - PRESSURE RELIEF JOINT, TYPE A					
0037	606E13000	0.00	FT	\$14.00000	\$0.00
GUARDRAIL, TYPE 5					
0038	606E22000	0.00	EACH	\$1,411.29597	\$0.00
ANCHOR ASSEMBLY, TYPE B-98					
0039	606E22010	0.00	EACH	\$1,712.52574	\$0.00
ANCHOR ASSEMBLY, TYPE E-98					
0040	606E26500	0.00	EACH	\$487.23435	\$0.00
ANCHOR ASSEMBLY, TYPE T					
0041	606E35000	0.00	EACH	\$969.12750	\$0.00
BRIDGE TERMINAL ASSEMBLY, TYPE 1					
0042	606E35100	0.00	EACH	\$338.36354	\$0.00
BRIDGE TERMINAL ASSEMBLY, TYPE 2					
0043	606E60010	0.00	EACH	\$3,439.05897	\$0.00
IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)					
0044	607E15000	0.00	FT	\$0.00000	\$0.00
FENCE, TYPE 47					
<i>For Fencing</i>					
0423	304E20000	0.00	CY	\$0.00000	\$0.00
AGGREGATE BASE					
<i>For Fencing</i>					
0424	601E32100	0.00	CY	\$0.00000	\$0.00
ROCK CHANNEL PROTECTION, TYPE B WITH FILTER					
<i>For Fencing</i>					
0425	607E40500	0.00	EACH	\$731.31641	\$0.00
GATE, TYPE 47					
<i>For Fencing</i>					
0426	625E32000	0.00	EACH	\$0.00000	\$0.00
GROUND ROD					
<i>For Fencing</i>					
0466		0.00		\$0.00000	\$0.00
<b>Total for Group 0012: \$0.00</b>					

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, EROSION CONTROL					
0467	659E10000	3,553.00	SY	\$1.00000	\$3,553.00
SEEDING AND MULCHING					
0531	660E25000	0.00	SY	\$15.00000	\$0.00
SODDING STAKED					
<b>Total for Group 0014: \$3,553.00</b>					

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, EROSION CONTROL					
0469	601E32000	0.00	CY	\$75.00000	\$0.00
ROCK CHANNEL PROTECTION, TYPE A WITH FILTER					
<b>Total for Group 0015: \$0.00</b>					

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<b>MAJOR COST DRIVERS, EROSION CONTROL</b>					
0470	832E10000	1.00	LS	\$50,000.00000	\$50,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0471	832E20000	6,000.00	EACH	\$1.00000	\$6,000.00
EROSION CONTROL					

Total for Group 0016: \$56,000.00

**Group 0017: Other Erosion Control Costs**

0049	670E00700	0.00	SY	\$0.00000	\$0.00
DITCH EROSION PROTECTION					
0050	B-OC-ERCO	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, EROSION CONTROL					
0051	659E00100	0.00	EACH	\$0.00000	\$0.00
SOIL ANALYSIS TEST					
0052	659E00300	0.00	CY	\$0.00000	\$0.00
TOPSOIL					
0053	659E14000	0.00	SY	\$0.00000	\$0.00
REPAIR SEEDING AND MULCHING					
0054	659E15000	0.00	SY	\$0.71000	\$0.00
INTER-SEEDING					
0055	659E20000	0.00	TON	\$410.06813	\$0.00
COMMERCIAL FERTILIZER					
0056	659E31000	0.00	ACRE	\$0.00000	\$0.00
LIME					
0057	659E35000	0.00	MGAL	\$5.00000	\$0.00
WATER					
0058	659E40000	0.00	MSF	\$0.00000	\$0.00
MOWING					

Total for Group 0017: \$0.00

**Group 0018: Underdrains**

0059	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0062	605E05100	6,974.00	FT	\$8.00000	\$55,792.00
4" SHALLOW PIPE UNDERDRAINS					

Total for Group 0018: \$55,792.00

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0480	C-MC-DRNG	0.00	FT	\$350.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>					
0481	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0019: \$0.00

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0476	C-MC-DRNG	0.00	FT	\$550.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"*

0477	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete - Headwalls/wingwalls</i>					

Total for Group 0021: \$0.00

**Group 0022: Culverts, Type A: 10' - 20'**

0486	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0487	C-MC-DRNG	0.00	FT	\$1,400.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>					

0488	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0022: \$0.00

**Group 0024: BMP's**

0076	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

Total for Group 0024: \$0.00

**Group 0025: Closed Storm System**

0077	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0489	603E13400	55.00	FT	\$75.00000	\$4,125.00
30" CONDUIT, TYPE B (Average size)					

0523	604E00800	7.00	EACH	\$1,500.00000	\$10,500.00
CATCH BASIN, NO. 3A					

0524	604E31500	1.00	EACH	\$3,000.00000	\$3,000.00
MANHOLE, NO. 3					

0525		0.00		\$0.00000	\$0.00
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0526	Special	0.00	LS	\$6,400,000.00000	\$0.00
Pump Station (Storm)					

0527	Special	0.00	EACH	\$5,750.00000	\$0.00
Stormceptors					

0529	Special	0.00	LS	\$109,000.00000	\$0.00
Retention basin improvements					

Total for Group 0025: \$17,625.00

**Group 0026: Other Drainage Costs**

0078	C-OC-DRNG	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, DRAINAGE					

Total for Group 0026: \$0.00

**Group 0027: Mainline - Travel Lanes**

0095	D-MC-PVMT	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT					

0494	D-MC-PVMT	0.00	SY	\$68.00000	\$0.00
13" Reinforced Concrete Pavement					
<i>Includes 6" Agg Base and Subgrade Compaction</i>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0027: \$0.00

**Group 0028: Mainline - Outside Shoulder**

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0028: \$0.00

**Group 0030: Mainline - Inside Shoulder**

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0030: \$0.00

**Group 0031: Ramps (including shoulders)**

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	2,932.00	SY	\$68.00000	\$199,376.00

Total for Group 0031: \$199,376.00

**Group 0032: Non - Mainline Lanes**

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	5,151.00	SY	\$41.00000	\$211,191.00

Total for Group 0032: \$211,191.00

**Group 0041: Other Pavement Costs**

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

**Group 0042: Water Works**

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

**Group 0043: Sanitary Line**

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0043: \$0.00

Group 0044: Lighting - Full Interchange

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	EACH	\$469,000.00000	\$0.00

Total for Group 0044: \$0.00

Group 0045: Lighting - Partial Interchange

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

Group 0046: Lighting - Continuous Roadway

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	3,168.00	FT	\$35.00000	\$110,880.00

Total for Group 0046: \$110,880.00

Group 0047: Other Lighting Costs

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

Group 0048: Traffic Surveillance

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	0.00	LS	\$0.00000	\$0.00
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Total for Group 0048: \$0.00

Group 0049: Signs

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	0.60	MILE	\$250,000.00000	\$150,000.00

Total for Group 0049: \$150,000.00

Group 0050: Pavement Marking

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	2.13	MILE	\$3,000.00000	\$6,390.00
0503	644E00200 LANE LINE	1.09	MILE	\$2,000.00000	\$2,180.00

Total for Group 0050: \$8,570.00

Group 0051: Other Traffic Control Costs

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
				Total for Group 0051: \$0.00	
<b>Group 0052: Signals - Intersections</b>					
0212	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS	1.00	LS	\$0.00000	\$0.00
				Total for Group 0052: \$0.00	
<b>Group 0053: Other Traffic Signal Costs</b>					
0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
				Total for Group 0053: \$0.00	
<b>Group 0054: Landscaping</b>					
0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
				Total for Group 0054: \$0.00	
<b>Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing</b>					
0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
0504	M-MC-WALL Retaining Walls	4,125.00	SF	\$135.00000	\$556,875.00
				Total for Group 0055: \$556,875.00	
<b>Group 0056: Other Retaining Wall Costs</b>					
0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
				Total for Group 0056: \$0.00	
<b>Group 0057: Building Demolition</b>					
0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
0532	202E98100 REMOVAL MISC.: <i>Radio Tower</i>	0.00	EACH	\$8,500.00000	\$0.00
0533	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Residential</i>	0.00	EACH	\$7,500.00000	\$0.00
0534	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	1.00	EACH	\$15,000.00000	\$15,000.00
0535	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Residential</i>	0.00	EACH	\$12,000.00000	\$0.00
0536	202E56101	1.00	EACH	\$30,000.00000	\$30,000.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

BUILDING DEMOLISHED, AS PER PLAN  
*Large Commercial*

Total for Group 0057: \$45,000.00

**Group 0058: Noise Barrier**

0220	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0505	P-MC-NSBR Noise Barrier	0.00	LS	\$25.00000	\$0.00

Total for Group 0058: \$0.00

**Group 0059: Other Noise Barrier Costs**

0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00

Total for Group 0059: \$0.00

**Group 0060: New Structures**

0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	0.00	SF	\$125.00000	\$0.00
0507	R-MC-STRC Removal of Existing Structures non-complex	0.00	SF	\$12.00000	\$0.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	85,729.00	SF	\$17.00000	\$1,457,393.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	0.00	SF	\$30.00000	\$0.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	179,364.00	SF	\$150.00000	\$26,904,600.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	0.00	SF	\$200.00000	\$0.00

Total for Group 0060: \$28,361,993.00

**Group 0061: Rehabilitated Structures**

0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	0.00	SF	\$45.00000	\$0.00
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Total for Group 0061: \$0.00

**Group 0062: Other Structure Costs**

0224	R-OC-STRC OTHER COSTS, STRUCTURES <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
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Total for Group 0062: \$0.00

**Group 0063: Temporary Road and Pavement Costs**

0225	S-MC-MNTC MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
Total for Group 0063:					\$0.00
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0064:					\$0.00
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0065:					\$0.00
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0066:					\$0.00
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0067:					\$0.00
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0068:					\$0.00
<b>Group 0069: Innovative Contracting Incentives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0069:					\$0.00
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	0.60	MILE	\$500,000.00000	\$300,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
Total for Group 0070:					\$300,000.00
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
Total for Group 0071:					\$0.00
<b>Group 0072: Misc. Costs</b>					



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b><u>Supplemental Description</u></b>				
0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	0.00	LS	\$10,000.00000	\$0.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$153,247.50000	\$153,247.50
0239	614E11000 MAINTAINING TRAFFIC 2%	1.00	LS	\$612,990.01000	\$612,990.01
0240	619E16020 FIELD OFFICE, TYPE C	32.00	MNTH	\$2,500.00000	\$80,000.00
0242	624E10000 MOBILIZATION	1.00	LS	\$800,000.00000	\$800,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$153,247.50000	\$153,247.50
0518		0.00		\$0.00000	\$0.00
0519		0.00		\$0.00000	\$0.00
0520		0.00		\$0.00000	\$0.00
0521		0.00		\$0.00000	\$0.00
<b>Total for Group 0072:</b>					<b>\$1,799,485.01</b>

**Group 0073: Design Contingency Costs**

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS 25%	1.00	LS	\$8,112,246.38000	\$8,112,246.38

**Total for Group 0073: \$8,112,246.38**

**Group 0074: Inflation Contingency**

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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**Total for Group 0074: \$0.00**

Macro View

										Attributes					
Acquisition	Unit (SF) or (Acreage)	X	Cost/Unit (\$\$/SF) (\$\$/Acre)	Subtotal Land Value	+	Structure Values (if Taken)	+	Damages (Loss in Value to the Residue)	=	Subtotal Structures & Damages	Total Non Labor Acquisition Costs	Parcel Count	Total Takes	Partial Takes	No. of Structures Impacted
-Residential	0.02	X	#####	\$26,845	+	0	+	N/A	=	\$0.00	\$26,845.33	1	0	1	0
-Commercial	0.8	X	\$659,087.22	\$527,270	+	4843600	+	N/A	=	\$4,843,600.00	\$5,370,869.78	3	0	3	2
-Industrial	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	\$0.00	0	0	0	0
-Agricultural	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	\$0.00	0	0	0	0
Relocation	Unit (Displacement)	X	*RHP/*RSP	+	Move Cost	+	Reestablishment	=	Total Non Labor RAP Costs	Estimate amount of time necessary to relocate all RAP parcels = (months) 18					
-Residential Owner Occupant	0	X	\$34,000	+	\$6,000			=	\$0	Estimate number of years until project wide R/W acquisition begins = 1.75					
-Residential Tenant	0	X	\$10,000	+	\$1,750			=	\$0						
-Commerical/Farm/NPO Owner	1			X	\$15,000	+	\$10,000	=	\$25,000						
-Commerical/Farm/NPO Tenant	0			X	\$15,000	+	\$10,000	=	\$0						
-Personal Property	0			X	\$1,000			=	\$0						
$\{[(\text{Total Cost of Acquisition Cost}) \times 0.90] \times 0.025\} + \{[(\text{Total of Acquisition Cost}) \times 0.15] \times 1.20\} + \{[(\text{Total of Acquisition Cost}) \times 0.10] \times 1.50\} = \text{Contingency}$								Contingency (Incidentals, Admin. Review & Appropriation)		1902694.575	*RHP - Replacement Housing Payment *RSP - Rent Supplemental Payment *NPO - Non-Profit Organization				
								<b>Total Non Labor R/W Costs</b>		<b>\$7,325,409.68</b>					

**Instruction for Acquisition & Relocation Cost Estimates**

Estimate the total number of acres involved in the project and allocate those acres into the four categories shown.

Assign an average unit price for each category. These unit prices are typically taken from the auditors tax card data. Cost Estimates prepared at Step 4 (Step 7 on Major Projects) and thereafter must base unit prices on a project sales data book instead of tax card data.

Add structure values from the auditors tax cards only if the structures are taken.

Damages must be assessed by a pre-qualified expert with experience in Before & After analysis. This usually occurs at Step 4 for Minor projects (Step 6 on Major Projects) and requires some knowledge of the impacts of the project on structures.

Relocation Cost Estimates must consider the complexity of the move process. All move estimates that involve a business or a multi-tenant residential structure should use the services of a relocation Assistance professional to accurately gauge costs.

Macro View

Labor (External)	Unit (Parcels)	X	Unit Price	=	Total Cost
Titles	4	X	\$400	=	\$1,600
Appraisal -Simple	1	X	\$750	=	\$750
-Detailed	3	X	\$4,500	=	\$13,500
Appraisal Review -Simple	1	X	\$500	=	\$500
-Detailed	3	X	\$2,000	=	\$6,000
Negotiations	4	X	\$1,100	=	\$4,400
Relocations -Personal Property	0	X	\$1,500	=	\$0
-Residential	0	X	\$5,200	=	\$0
-Commercial/Farm/*NPO	1	X	\$5,600	=	\$5,600
Closings	4	X	\$400	=	\$1,600
Project Management	4	X	\$550	=	\$2,200
Asbestos Testing & Abatement		X		=	
<b>Total Labor Costs</b>					<b>\$36,150</b>

\*NPO = Non-Profit Organization

This R/W Cost Estimate Prepared by	Date
Chris Clemons	8/4/2010
This R/W Cost Estimate was performed at Step <u>6</u> of the PDP for <u>MAJOR</u> Projects using _____	

**Instructions for Labor Cost Estimates**

Labor costs are a function of time, distance, and talent. Labor costs estimates should reflect the complexity of the project and the talent necessary to acquire the right of way in a timely manner. The person making the cost estimate may adjust the figures given for the particular project being estimated to reflect local labor costs. It is critical that the estimate be labeled to reflect the alignment alternative, the step in the PDP process and the person(s) performing the estimate.

<b>Total Labor Costs</b>	\$36,150.00
<b>Total Non Labor R/W Costs</b>	\$7,325,409.68
<b>Inflation Adjustments</b>	\$449,055.14
<b>Total R/W Costs</b>	<b>\$7,810,614.82</b>

**Comments**

Cost/Unit were generated from auditors tax card data.

**P.D.P. R/W Cost Estimator**

## Estimate Alt E OH cont 5

Estimated Cost: \$160,063,863.43

Contingency: 51.30%

**Estimated Total: \$242,176,625.37**

*OH-5 Reconstruct I-75 from Findlay to the Northern Terminus of the Corridor*

Base Date: 07/22/10

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District: 8

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	121,484.00	SY	\$8.00000	\$971,872.00

Total for Group 0001: \$971,872.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$30.00000	\$0.00
0532	203E10001 EXCAVATION, AS PER PLAN	9,835.00	CY	\$30.00000	\$295,050.00

Total for Group 0002: \$295,050.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	132,253.00	CY	\$8.00000	\$1,058,024.00

Total for Group 0003: \$1,058,024.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	273,627.00	CY	\$6.00000	\$1,641,762.00

Total for Group 0005: \$1,641,762.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	131,539.00	CY	\$8.00000	\$1,052,312.00
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Total for Group 0007: \$1,052,312.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b><u>Supplemental Description</u></b>				
	MAJOR COST DRIVERS, ROADWAY				
0465	622E10060	18,340.00	FT	\$110.00000	\$2,017,400.00
	CONCRETE BARRIER, SINGLE SLOPE, TYPE B				

Total for Group 0008: \$2,017,400.00

Group 0009: Subgrade Treatment - Lime

0014	A-MC-RDWY	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, ROADWAY				
0348	206E10000	0.00	SY	\$1.85000	\$0.00
	LIME STABILIZED SUBGRADE				
0349	206E10300	0.00	TON	\$10.00000	\$0.00
	LIME				
0350	206E11000	0.00	SY	\$1.00000	\$0.00
	CURING COAT				
0351	206E20000	0.00	HOUR	\$4.00000	\$0.00
	TEST ROLLING				

Total for Group 0009: \$0.00

Group 0010: Subgrade Treatment - Cement

0016	A-MC-RDWY	383,252.00	SY	\$2.50000	\$958,130.00
	MAJOR COST DRIVERS, ROADWAY				

Total for Group 0010: \$958,130.00

Group 0011: Subgrade Treatment - Undercut & Backfill

0017	A-MC-RDWY	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, ROADWAY				

Total for Group 0011: \$0.00

Group 0012: Other Roadway Costs

0019	A-OC-RDWY	0.00	LS	\$0.00000	\$0.00
	OTHER COSTS, ROADWAY				
	<i>Contingency</i>				
0020	201E11000	0.00	LS	\$856,500.00000	\$0.00
	CLEARING AND GRUBBING				
0021	201E21800	0.00	EACH	\$250.00000	\$0.00
	TREE REMOVED, 18" SIZE				
0022	201E23000	0.00	EACH	\$405.00000	\$0.00
	TREE REMOVED, 30" SIZE				
0023	201E24800	0.00	EACH	\$772.00000	\$0.00
	TREE REMOVED, 48" SIZE				
0026	202E11000	0.00	LS	\$9,310.13000	\$0.00
	STRUCTURE REMOVED				
0028	202E35200	0.00	FT	\$0.00000	\$0.00
	PIPE REMOVED, OVER 24"				
0029	202E38000	0.00	FT	\$0.00000	\$0.00
	GUARDRAIL REMOVED				
0030	202E42206	0.00	EACH	\$0.00000	\$0.00
	ANCHOR ASSEMBLY REMOVED				
0031	202E58000	0.00	EACH	\$0.00000	\$0.00
	MANHOLE REMOVED				
0032	202E58100	0.00	EACH	\$0.00000	\$0.00
	CATCH BASIN REMOVED				
0033	202E75000	0.00	FT	\$0.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b>Supplemental Description</b>				
	FENCE REMOVED				
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00
	PROOF ROLLING				
0035	204E10000	0.00	SY	\$0.81000	\$0.00
	SUBGRADE COMPACTION				
0036	451E30000	0.00	FT	\$0.00000	\$0.00
	SPECIAL - PRESSURE RELIEF JOINT, TYPE A				
0037	606E13000	1,863.00	FT	\$14.00000	\$26,082.00
	GUARDRAIL, TYPE 5				
0038	606E22000	0.00	EACH	\$1,411.29597	\$0.00
	ANCHOR ASSEMBLY, TYPE B-98				
0039	606E22010	0.00	EACH	\$1,712.52574	\$0.00
	ANCHOR ASSEMBLY, TYPE E-98				
0040	606E26500	0.00	EACH	\$487.23435	\$0.00
	ANCHOR ASSEMBLY, TYPE T				
0041	606E35000	0.00	EACH	\$969.12750	\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 1				
0042	606E35100	0.00	EACH	\$338.36354	\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 2				
0043	606E60010	0.00	EACH	\$3,439.05897	\$0.00
	IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)				
0044	607E15000	0.00	FT	\$0.00000	\$0.00
	FENCE, TYPE 47				
	<i>For Fencing</i>				
0423	304E20000	0.00	CY	\$0.00000	\$0.00
	AGGREGATE BASE				
	<i>For Fencing</i>				
0424	601E32100	0.00	CY	\$0.00000	\$0.00
	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER				
	<i>For Fencing</i>				
0425	607E40500	0.00	EACH	\$731.31641	\$0.00
	GATE, TYPE 47				
	<i>For Fencing</i>				
0426	625E32000	0.00	EACH	\$0.00000	\$0.00
	GROUND ROD				
	<i>For Fencing</i>				
0466		0.00		\$0.00000	\$0.00
<b>Total for Group 0012: \$26,082.00</b>					

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0467	659E10000	0.00	SY	\$1.00000	\$0.00
	SEEDING AND MULCHING				
0531	660E25000	0.00	SY	\$15.00000	\$0.00
	SODDING STAKED				
<b>Total for Group 0014: \$0.00</b>					

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0469	601E32000	24.00	CY	\$75.00000	\$1,800.00
	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER				
<b>Total for Group 0015: \$1,800.00</b>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO MAJOR COST DRIVERS, EROSION CONTROL	1.00	LS	\$0.00000	\$0.00
0470	832E10000 STORM WATER POLLUTION PREVENTION PLAN	1.00	LS	\$50,000.00000	\$50,000.00
0471	832E20000 EROSION CONTROL	120,000.00	EACH	\$1.00000	\$120,000.00

Total for Group 0016: \$170,000.00

**Group 0017: Other Erosion Control Costs**

0049	670E00700 DITCH EROSION PROTECTION	0.00	SY	\$0.00000	\$0.00
0050	B-OC-ERCO OTHER COSTS, EROSION CONTROL	1.00	LS	\$0.00000	\$0.00
0051	659E00100 SOIL ANALYSIS TEST	0.00	EACH	\$0.00000	\$0.00
0052	659E00300 TOPSOIL	0.00	CY	\$0.00000	\$0.00
0053	659E14000 REPAIR SEEDING AND MULCHING	0.00	SY	\$0.00000	\$0.00
0054	659E15000 INTER-SEEDING	0.00	SY	\$0.71000	\$0.00
0055	659E20000 COMMERCIAL FERTILIZER	0.00	TON	\$410.06813	\$0.00
0056	659E31000 LIME	0.00	ACRE	\$0.00000	\$0.00
0057	659E35000 WATER	0.00	MGAL	\$5.00000	\$0.00
0058	659E40000 MOWING	0.00	MSF	\$0.00000	\$0.00

Total for Group 0017: \$0.00

**Group 0018: Underdrains**

0059	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
0062	605E05100 4" SHALLOW PIPE UNDERDRAINS	62,408.00	FT	\$8.00000	\$499,264.00

Total for Group 0018: \$499,264.00

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE	0.00	LS	\$0.00000	\$0.00
0480	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE <i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>	0.00	FT	\$350.00000	\$0.00
0481	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE <i>Concrete Masonry</i>	0.00	EACH	\$1,500.00000	\$0.00

Total for Group 0019: \$0.00

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
0476	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE <i>Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"</i>	0.00	FT	\$550.00000	\$0.00
0477	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE <i>Concrete - Headwalls/wingwalls</i>	0.00	EACH	\$1,500.00000	\$0.00

Total for Group 0021: \$0.00

Group 0022: Culverts, Type A: 10' - 20'

0486	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
0487	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE <i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>	0.00	FT	\$1,400.00000	\$0.00
0488	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE <i>Concrete Masonry</i>	0.00	EACH	\$1,500.00000	\$0.00

Total for Group 0022: \$0.00

Group 0024: BMP's

0076	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
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Total for Group 0024: \$0.00

Group 0025: Closed Storm System

0077	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
0489	603E13400 30" CONDUIT, TYPE B (Average size)	12,495.00	FT	\$75.00000	\$937,125.00
0523	604E00800 CATCH BASIN, NO. 3A	126.00	EACH	\$1,500.00000	\$189,000.00
0524	604E31500 MANHOLE, NO. 3	13.00	EACH	\$3,000.00000	\$39,000.00
0526	Special Pump Station (Storm)	0.00	LS	\$6,400,000.00000	\$0.00
0527	Special Stormceptors	0.00	EACH	\$5,750.00000	\$0.00
0529	Special Retention basin improvements	0.00	LS	\$109,000.00000	\$0.00
0533	604E36601 PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN	2.00	EACH	\$1,250.00000	\$2,500.00

Total for Group 0025: \$1,167,625.00

Group 0026: Other Drainage Costs

0078	C-OC-DRNG OTHER COSTS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
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Total for Group 0026: \$0.00

Group 0027: Mainline - Travel Lanes

0095	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0494	D-MC-PVMT	67,878.00	SY	\$68.00000	\$4,615,704.00



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

13" Reinforced Concrete Pavement  
Includes 6" Agg Base and Subgrade Compaction

Total for Group 0027: \$4,615,704.00

**Group 0028: Mainline - Outside Shoulder**

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement Includes 6" Agg base and Subgrade Compaction	21,164.00	SY	\$68.00000	\$1,439,152.00

Total for Group 0028: \$1,439,152.00

**Group 0030: Mainline - Inside Shoulder**

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement Includes 6" Agg base and Subgrade Compaction	15,864.00	SY	\$68.00000	\$1,078,752.00

Total for Group 0030: \$1,078,752.00

**Group 0031: Ramps (including shoulders)**

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement Includes 6" Agg base and Subgrade Compaction	33,743.00	SY	\$68.00000	\$2,294,524.00

Total for Group 0031: \$2,294,524.00

**Group 0032: Non - Mainline Lanes**

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction	244,603.00	SY	\$41.00000	\$10,028,723.00

Total for Group 0032: \$10,028,723.00

**Group 0041: Other Pavement Costs**

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

**Group 0042: Water Works**

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

**Group 0043: Sanitary Line**

0170	F-MC-SANI	0.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
MAJOR COST DRIVERS, SANITARY SEWER					
					Total for Group 0043: \$0.00
Group 0044: Lighting - Full Interchange					
0173	G-MC-LTNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, LIGHTING					
0499	G-MC-LTNG	1.00	EACH	\$469,000.00000	\$469,000.00
MAJOR COST DRIVERS, LIGHTING					
					Total for Group 0044: \$469,000.00
Group 0045: Lighting - Partial Interchange					
0288	G-MC-LTNG	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, LIGHTING					
					Total for Group 0045: \$0.00
Group 0046: Lighting - Continuous Roadway					
0176	G-MC-LTNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, LIGHTING					
0500	G-MC-LTNG	10,720.00	FT	\$35.00000	\$375,200.00
Lighting - Continuous					
					Total for Group 0046: \$375,200.00
Group 0047: Other Lighting Costs					
0177	G-OC-LTNG	0.00	LS	\$0.00000	\$0.00
OTHER COSTS, LIGHTING					
					Total for Group 0047: \$0.00
Group 0048: Traffic Surveillance					
0178	H-OC-SURV	1.00	LS	\$1,210,022.02000	\$1,210,022.02
OTHER COSTS, TRAFFIC SURVEILLANCE					
					Total for Group 0048: \$1,210,022.02
Group 0049: Signs					
0179	J-MC-TRAF	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, TRAFFIC CONTROL					
0501	J-MC-TRAF	2.03	MILE	\$250,000.00000	\$507,500.00
Signs					
					Total for Group 0049: \$507,500.00
Group 0050: Pavement Marking					
0200	J-MC-TRAF	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, TRAFFIC CONTROL					
0502	644E00100	10.98	MILE	\$3,000.00000	\$32,940.00
EDGE LINE					
0503	644E00200	11.91	MILE	\$2,000.00000	\$23,820.00
LANE LINE					
					Total for Group 0050: \$56,760.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
<b>Group 0051: Other Traffic Control Costs</b>					
0208	J-OC-TRAF	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, TRAFFIC CONTROL					
				<b>Total for Group 0051: \$0.00</b>	
<b>Group 0052: Signals - Intersections</b>					
0212	K-MC-SGNL	4.00	LS	\$175,000.00000	\$700,000.00
MAJOR COST DRIVERS, SIGNALS					
				<b>Total for Group 0052: \$700,000.00</b>	
<b>Group 0053: Other Traffic Signal Costs</b>					
0213	K-OC-SGNL	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, SIGNALS					
				<b>Total for Group 0053: \$0.00</b>	
<b>Group 0054: Landscaping</b>					
0214	L-MC-LSCP	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, LANDSCAPING					
0215	L-OC-LSCP	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, LANDSCAPING					
				<b>Total for Group 0054: \$0.00</b>	
<b>Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing</b>					
0216	M-MC-WALL	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, RETAINING WALLS					
0504	M-MC-WALL	278,121.00	SF	\$135.00000	\$37,546,335.00
Retaining Walls					
				<b>Total for Group 0055: \$37,546,335.00</b>	
<b>Group 0056: Other Retaining Wall Costs</b>					
0217	M-OC-WALL	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, RETAINING WALLS					
				<b>Total for Group 0056: \$0.00</b>	
<b>Group 0057: Building Demolition</b>					
0218	N-MC-DEMO	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, BUILDING DEMOLITION					
0219	N-OC-DEMO	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, BUILDING DEMOLITION					
0534	202E98100	0.00	EACH	\$8,500.00000	\$0.00
REMOVAL MISC.: <i>Radio Tower</i>					
0535	202E56101	10.00	EACH	\$7,500.00000	\$75,000.00
BUILDING DEMOLISHED, AS PER PLAN <i>Small Residential</i>					
0536	202E56101	4.00	EACH	\$15,000.00000	\$60,000.00
BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>					
0537	202E56101	5.00	EACH	\$12,000.00000	\$60,000.00
BUILDING DEMOLISHED, AS PER PLAN					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Large Residential*

0538	202E56101	0.00	EACH	\$30,000.00000	\$0.00
BUILDING DEMOLISHED, AS PER PLAN					
<i>Large Commercial</i>					

Total for Group 0057: \$195,000.00

Group 0058: Noise Barrier

0220	P-MC-NSBR	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, NOISE BARRIER					
0505	P-MC-NSBR	0.00	LS	\$25.00000	\$0.00
Noise Barrier					

Total for Group 0058: \$0.00

Group 0059: Other Noise Barrier Costs

0221	P-OC-NSBR	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, NOISE BARRIER					
0368	P-MC-NSBR	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, NOISE BARRIER					

Total for Group 0059: \$0.00

Group 0060: New Structures

0222	R-MC-STRC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, STRUCTURES					
0506	R-MC-STRC	147,873.00	SF	\$125.00000	\$18,484,125.00
Tier 1 Structures to 25' Height					
0507	R-MC-STRC	0.00	SF	\$12.00000	\$0.00
Removal of Existing Structures non-complex					
0508	R-MC-STRC	100,928.00	SF	\$17.00000	\$1,715,776.00
Standard Removal of Existing Structures above average complex					
0509	R-MC-STRC	130,786.00	SF	\$30.00000	\$3,923,580.00
Removal of Existing Structures complex to very complex					
0513	R-MC-STRC	177,985.00	SF	\$150.00000	\$26,697,750.00
Tier 2 Structures 25' to 50' Height					
0516	R-MC-STRC	0.00	SF	\$200.00000	\$0.00
Tier 3 Structures 50' to 75' Height					

Total for Group 0060: \$50,821,231.00

Group 0061: Rehabilitated Structures

0223	R-MC-STRC	0.00	SF	\$45.00000	\$0.00
MAJOR COST DRIVERS, STRUCTURES					

Total for Group 0061: \$0.00

Group 0062: Other Structure Costs

0224	R-OC-STRC	0.00	LS	\$0.00000	\$0.00
OTHER COSTS, STRUCTURES					
<i>Contingency</i>					

Total for Group 0062: \$0.00

Group 0063: Temporary Road and Pavement Costs

0225	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
Total for Group 0063: \$0.00					
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0064: \$0.00					
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0065: \$0.00					
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0066: \$0.00					
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0067: \$0.00					
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0068: \$0.00					
<b>Group 0069: Innovative Contracting Incentatives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0069: \$0.00					
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	2.03	MILE	\$500,000.00000	\$1,015,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
Total for Group 0070: \$1,015,000.00					
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
Total for Group 0071: \$0.00					
<b>Group 0072: Misc. Costs</b>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	1.00	LS	\$10,000.00000	\$10,000.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$611,061.12000	\$611,061.12
0239	614E11000 MAINTAINING TRAFFIC 5%	1.00	LS	\$2,444,244.48000	\$2,444,244.48
0240	619E16020 FIELD OFFICE, TYPE C	65.00	MNTH	\$2,500.00000	\$162,500.00
0242	624E10000 MOBILIZATION	1.00	LS	\$2,000,000.00000	\$2,000,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$611,061.12000	\$611,061.12

Total for Group 0072: \$5,838,866.72

Group 0073: Design Contingency Costs

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS 25%	1.00	LS	\$32,012,772.69000	\$32,012,772.69

Total for Group 0073: \$32,012,772.69

Group 0074: Inflation Contingency

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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Total for Group 0074: \$0.00

Macro View

										Attributes						
Acquisition	Unit (SF) or (Acreage)	X	Cost/Unit (\$\$/SF) (\$\$/Acre)	Subtotal Land Value	+	Structure Values (if Taken)	+	Damages (Loss in Value to the Residue)	=	Subtotal Structures & Damages	=	Total Non Labor Acquisition Costs	Parcel Count	Total Takes	Partial Takes	No. of Structures Impacted
-Residential	2.18	X	\$128,297.57	\$279,689	+	782660	+	N/A	=	\$782,660.00	=	\$1,062,348.70	31	27	4	15
-Commercial	1.1	X	\$93,288.38	\$102,617	+	642800	+	N/A	=	\$642,800.00	=	\$745,417.22	23	8	15	4
-Industrial	0.39	X	\$142,576.25	\$55,605	+	0	+	N/A	=	\$0.00	=	\$55,604.74	13	3	10	0
-Agricultural	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	=	\$0.00	0	0	0	0
Relocation	Unit (Displacement)	X	*RHP/*RSP		+	Move Cost	+	Reestablishment	=	Total Non Labor RAP Costs	Estimate amount of time necessary to relocate all RAP parcels = (months) 24					
-Residential Owner Occupant	14	X	\$34,000		+	\$6,000			=	\$560,000	Estimate number of years until project wide R/W acquisition begins = 2					
-Residential Tenant	27	X	\$10,000		+	\$1,750			=	\$317,250						
-Commerical/Farm/NPO Owner	2				X	\$15,000	+	\$10,000	=	\$50,000						
-Commerical/Farm/NPO Tenant	2				X	\$15,000	+	\$10,000	=	\$50,000						
-Personal Property	0				X	\$1,000			=	\$0						
$\{((\text{Total Cost of Acquisition Cost}) \times 0.90) \times 0.025\} + \{((\text{Total of Acquisition Cost}) \times 0.15) \times 1.20\} + \{((\text{Total of Acquisition Cost}) \times 0.10) \times 1.50\} = \text{Contingency}$									Contingency (Incidentals, Admin. Review & Appropriation)		656838.157		*RHP - Replacement Housing Payment *RSP - Rent Supplemental Payment *NPO - Non-Profit Organization			
										<b>Total Non Labor R/W Costs</b>		<b>\$3,497,458.82</b>				

**Instruction for Acquisition & Relocation Cost Estimates**

Estimate the total number of acres involved in the project and allocate those acres into the four categories shown.

Assign an average unit price for each category. These unit prices are typically taken from the auditors tax card data. Cost Estimates prepared at Step 4 (Step 7 on Major Projects) and thereafter must base unit prices on a project sales data book instead of tax card data.

Add structure values from the auditors tax cards only if the structures are taken.

Damages must be assessed by a pre-qualified expert with experience in Before & After analysis. This usually occurs at Step 4 for Minor projects (Step 6 on Major Projects) and requires some knowledge of the impacts of the project on structures.

Relocation Cost Estimates must consider the complexity of the move process. All move estimates that involve a business or a multi-tenant residential structure should use the services of a relocation Assistance professional to accurately gauge costs.

Macro View

Labor (External)	Unit (Parcels)	X	Unit Price	=	Total Cost
Titles	67	X	\$400	=	\$26,800
Appraisal -Simple	12	X	\$750	=	\$9,000
-Detailed	55	X	\$4,500	=	\$247,500
Appraisal Review -Simple	12	X	\$500	=	\$6,000
-Detailed	55	X	\$2,000	=	\$110,000
Negotiations	67	X	\$1,100	=	\$73,700
Relocations -Personal Property	0	X	\$1,500	=	\$0
-Residential	41	X	\$5,200	=	\$213,200
-Commercial/Farm/*NPO	4	X	\$5,600	=	\$22,400
Closings	67	X	\$400	=	\$26,800
Project Management	67	X	\$550	=	\$36,850
Asbestos Testing & Abatement		X		=	
<b>Total Labor Costs</b>					<b>\$772,250</b>

\*NPO = Non-Profit Organization

This R/W Cost Estimate Prepared by	Date
Chris Clemons	8/4/2010
This R/W Cost Estimate was performed at Step <u>6</u> of the PDP for <u>MAJOR</u> Projects using _____	

<b>Total Labor Costs</b>	\$772,250.00
<b>Total Non Labor R/W Costs</b>	\$3,497,458.82
<b>Inflation Adjustments</b>	\$350,116.12
<b>Total R/W Costs</b>	<b>\$4,619,824.94</b>

**Instructions for Labor Cost Estimates**

Labor costs are a function of time, distance, and talent. Labor costs estimates should reflect the complexity of the project and the talent necessary to acquire the right of way in a timely manner. The person making the cost estimate may adjust the figures given for the particular project being estimated to reflect local labor costs. It is critical that the estimate be labeled to reflect the alignment alternative, the step in the PDP process and the person(s) performing the estimate.

**Comments**

Cost/Unit were generated from auditors tax card data.

## Estimate Alt E OH cont 6

Estimated Cost: \$24,818,545.94

Contingency: 57.60%

**Estimated Total: \$39,114,028.40**

*OH-6 Reconstruction from North of Linn St to Findlay St*

Base Date: 07/22/10

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District:

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	72,055.00	SY	\$8.00000	\$576,440.00

Total for Group 0001: \$576,440.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$30.00000	\$0.00
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Total for Group 0002: \$0.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	121,755.00	CY	\$8.00000	\$974,040.00

Total for Group 0003: \$974,040.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	121,755.00	CY	\$6.00000	\$730,530.00

Total for Group 0005: \$730,530.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$8.00000	\$0.00
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Total for Group 0007: \$0.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	4,953.00	FT	\$110.00000	\$544,830.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<u>Description</u>				
	<u>Supplemental Description</u>				

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$544,830.00

## Group 0009: Subgrade Treatment - Lime

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

## Group 0010: Subgrade Treatment - Cement

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	93,609.00	SY	\$2.50000	\$234,022.50
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Total for Group 0010: \$234,022.50

## Group 0011: Subgrade Treatment - Undercut &amp; Backfill

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

## Group 0012: Other Roadway Costs

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0028	202E35200 PIPE REMOVED, OVER 24"	0.00	FT	\$0.00000	\$0.00
0029	202E38000 GUARDRAIL REMOVED	0.00	FT	\$0.00000	\$0.00
0030	202E42206 ANCHOR ASSEMBLY REMOVED	0.00	EACH	\$0.00000	\$0.00
0031	202E58000 MANHOLE REMOVED	0.00	EACH	\$0.00000	\$0.00
0032	202E58100 CATCH BASIN REMOVED	0.00	EACH	\$0.00000	\$0.00
0033	202E75000 FENCE REMOVED	0.00	FT	\$0.00000	\$0.00
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>PROOF ROLLING</b>				
0035	204E10000	0.00	SY	\$0.81000	\$0.00
	<b>SUBGRADE COMPACTION</b>				
0036	451E30000	0.00	FT	\$0.00000	\$0.00
	<b>SPECIAL - PRESSURE RELIEF JOINT, TYPE A</b>				
0037	606E13000	2,291.00	FT	\$14.00000	\$32,074.00
	<b>GUARDRAIL, TYPE 5</b>				
0038	606E22000	0.00	EACH	\$1,411.29597	\$0.00
	<b>ANCHOR ASSEMBLY, TYPE B-98</b>				
0039	606E22010	0.00	EACH	\$1,712.52574	\$0.00
	<b>ANCHOR ASSEMBLY, TYPE E-98</b>				
0040	606E26500	0.00	EACH	\$487.23435	\$0.00
	<b>ANCHOR ASSEMBLY, TYPE T</b>				
0041	606E35000	0.00	EACH	\$969.12750	\$0.00
	<b>BRIDGE TERMINAL ASSEMBLY, TYPE 1</b>				
0042	606E35100	0.00	EACH	\$338.36354	\$0.00
	<b>BRIDGE TERMINAL ASSEMBLY, TYPE 2</b>				
0043	606E60010	0.00	EACH	\$3,439.05897	\$0.00
	<b>IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)</b>				
0044	607E15000	0.00	FT	\$0.00000	\$0.00
	<b>FENCE, TYPE 47</b>				
	<i>For Fencing</i>				
0423	304E20000	0.00	CY	\$0.00000	\$0.00
	<b>AGGREGATE BASE</b>				
	<i>For Fencing</i>				
0424	601E32100	0.00	CY	\$0.00000	\$0.00
	<b>ROCK CHANNEL PROTECTION, TYPE B WITH FILTER</b>				
	<i>For Fencing</i>				
0425	607E40500	0.00	EACH	\$731.31641	\$0.00
	<b>GATE, TYPE 47</b>				
	<i>For Fencing</i>				
0426	625E32000	0.00	EACH	\$0.00000	\$0.00
	<b>GROUND ROD</b>				
	<i>For Fencing</i>				
0466		0.00		\$0.00000	\$0.00

Total for Group 0012: \$32,074.00

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	<b>MAJOR COST DRIVERS, EROSION CONTROL</b>				
0467	659E10000	0.00	SY	\$1.00000	\$0.00
	<b>SEEDING AND MULCHING</b>				
0531	660E25000	0.00	SY	\$15.00000	\$0.00
	<b>SODDING STAKED</b>				

Total for Group 0014: \$0.00

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	<b>MAJOR COST DRIVERS, EROSION CONTROL</b>				
0469	601E32000	0.00	CY	\$75.00000	\$0.00
	<b>ROCK CHANNEL PROTECTION, TYPE A WITH FILTER</b>				

Total for Group 0015: \$0.00

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<b>MAJOR COST DRIVERS, EROSION CONTROL</b>					
0470	832E10000	1.00	LS	\$50,000.00000	\$50,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0471	832E20000	35,000.00	EACH	\$1.00000	\$35,000.00
EROSION CONTROL					

Total for Group 0016: \$85,000.00

**Group 0017: Other Erosion Control Costs**

0049	670E00700	0.00	SY	\$0.00000	\$0.00
DITCH EROSION PROTECTION					
0050	B-OC-ERCO	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, EROSION CONTROL					
0051	659E00100	0.00	EACH	\$0.00000	\$0.00
SOIL ANALYSIS TEST					
0052	659E00300	0.00	CY	\$0.00000	\$0.00
TOPSOIL					
0053	659E14000	0.00	SY	\$0.00000	\$0.00
REPAIR SEEDING AND MULCHING					
0054	659E15000	0.00	SY	\$0.71000	\$0.00
INTER-SEEDING					
0055	659E20000	0.00	TON	\$410.06813	\$0.00
COMMERCIAL FERTILIZER					
0056	659E31000	0.00	ACRE	\$0.00000	\$0.00
LIME					
0057	659E35000	0.00	MGAL	\$5.00000	\$0.00
WATER					
0058	659E40000	0.00	MSF	\$0.00000	\$0.00
MOWING					

Total for Group 0017: \$0.00

**Group 0018: Underdrains**

0059	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0062	605E05100	51,204.00	FT	\$8.00000	\$409,632.00
4" SHALLOW PIPE UNDERDRAINS					

Total for Group 0018: \$409,632.00

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0480	C-MC-DRNG	0.00	FT	\$350.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>					
0481	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0019: \$0.00

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0476	C-MC-DRNG	0.00	FT	\$550.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"*

0477	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete - Headwalls/wingwalls</i>					

Total for Group 0021: \$0.00

**Group 0022: Culverts, Type A: 10' - 20'**

0486	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0487	C-MC-DRNG	0.00	FT	\$1,400.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>					

0488	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0022: \$0.00

**Group 0024: BMP's**

0076	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

Total for Group 0024: \$0.00

**Group 0025: Closed Storm System**

0077	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0489	603E13400	7,258.00	FT	\$75.00000	\$544,350.00
30" CONDUIT, TYPE B (Average size)					

0523	604E00800	70.00	EACH	\$1,500.00000	\$105,000.00
CATCH BASIN, NO. 3A					

0524	604E31500	7.00	EACH	\$3,000.00000	\$21,000.00
MANHOLE, NO. 3					

0525	604E36601	0.00	EACH	\$0.00000	\$0.00
PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN					

0526	Special	0.00	LS	\$6,400,000.00000	\$0.00
Pump Station (Storm)					

0527	Special	0.00	EACH	\$5,750.00000	\$0.00
Stormceptors					

0529	Special	0.00	LS	\$109,000.00000	\$0.00
Retention basin improvements					

Total for Group 0025: \$670,350.00

**Group 0026: Other Drainage Costs**

0078	C-OC-DRNG	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, DRAINAGE					

Total for Group 0026: \$0.00

**Group 0027: Mainline - Travel Lanes**

0095	D-MC-PVMT	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT					

0494	D-MC-PVMT	68,710.00	SY	\$68.00000	\$4,672,280.00
13" Reinforced Concrete Pavement					
<i>Includes 6" Agg Base and Subgrade Compaction</i>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0027: \$4,672,280.00

Group 0028: Mainline - Outside Shoulder

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	11,609.00	SY	\$68.00000	\$789,412.00

Total for Group 0028: \$789,412.00

Group 0030: Mainline - Inside Shoulder

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	13,290.00	SY	\$68.00000	\$903,720.00

Total for Group 0030: \$903,720.00

Group 0031: Ramps (including shoulders)

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0031: \$0.00

Group 0032: Non - Mainline Lanes

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$41.00000	\$0.00

Total for Group 0032: \$0.00

Group 0041: Other Pavement Costs

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

Group 0042: Water Works

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

Group 0043: Sanitary Line

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0043: \$0.00

Group 0044: Lighting - Full Interchange

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	EACH	\$469,000.00000	\$0.00

Total for Group 0044: \$0.00

Group 0045: Lighting - Partial Interchange

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

Group 0046: Lighting - Continuous Roadway

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	0.00	FT	\$138.00000	\$0.00

Total for Group 0046: \$0.00

Group 0047: Other Lighting Costs

0177	G-OC-LTNG OTHER COSTS, LIGHTING	4,276.00	LS	\$35.00000	\$149,660.00
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Total for Group 0047: \$149,660.00

Group 0048: Traffic Surveillance

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	1.00	LS	\$185,954.41000	\$185,954.41
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Total for Group 0048: \$185,954.41

Group 0049: Signs

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	0.81	MILE	\$250,000.00000	\$202,500.00

Total for Group 0049: \$202,500.00

Group 0050: Pavement Marking

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	4.88	MILE	\$3,000.00000	\$14,640.00
0503	644E00200 LANE LINE	6.47	MILE	\$2,000.00000	\$12,940.00

Total for Group 0050: \$27,580.00

Group 0051: Other Traffic Control Costs

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
				Total for Group 0051: \$0.00	
<b>Group 0052: Signals - Intersections</b>					
0212	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS	1.00	LS	\$0.00000	\$0.00
				Total for Group 0052: \$0.00	
<b>Group 0053: Other Traffic Signal Costs</b>					
0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
				Total for Group 0053: \$0.00	
<b>Group 0054: Landscaping</b>					
0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
				Total for Group 0054: \$0.00	
<b>Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing</b>					
0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
0504	M-MC-WALL Retaining Walls	7,780.00	SF	\$135.00000	\$1,050,300.00
				Total for Group 0055: \$1,050,300.00	
<b>Group 0056: Other Retaining Wall Costs</b>					
0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
				Total for Group 0056: \$0.00	
<b>Group 0057: Building Demolition</b>					
0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
0532	202E98100 REMOVAL MISC.: <i>Radio Tower</i>	0.00	EACH	\$8,500.00000	\$0.00
0533	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Residential</i>	0.00	EACH	\$7,500.00000	\$0.00
0534	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	0.00	EACH	\$15,000.00000	\$0.00
0535	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Residential</i>	0.00	EACH	\$12,000.00000	\$0.00
0536	202E56101	0.00	EACH	\$30,000.00000	\$0.00



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

BUILDING DEMOLISHED, AS PER PLAN  
*Large Commercial*

Total for Group 0057: \$0.00

**Group 0058: Noise Barrier**

0220	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0505	P-MC-NSBR Noise Barrier	40,012.00	SF	\$25.00000	\$1,000,300.00

Total for Group 0058: \$1,000,300.00

**Group 0059: Other Noise Barrier Costs**

0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00

Total for Group 0059: \$0.00

**Group 0060: New Structures**

0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	36,980.00	SF	\$125.00000	\$4,622,500.00
0507	R-MC-STRC Removal of Existing Structures non-complex	0.00	SF	\$12.00000	\$0.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	30,310.00	SF	\$17.00000	\$515,270.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	0.00	SF	\$30.00000	\$0.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	0.00	SF	\$150.00000	\$0.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	0.00	SF	\$200.00000	\$0.00

Total for Group 0060: \$5,137,770.00

**Group 0061: Rehabilitated Structures**

0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	0.00	SF	\$45.00000	\$0.00
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Total for Group 0061: \$0.00

**Group 0062: Other Structure Costs**

0224	R-OC-STRC OTHER COSTS, STRUCTURES <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
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Total for Group 0062: \$0.00

**Group 0063: Temporary Road and Pavement Costs**

0225	S-MC-MNTC MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
Total for Group 0063:					\$0.00
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0064:					\$0.00
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0065:					\$0.00
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0066:					\$0.00
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0067:					\$0.00
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0068:					\$0.00
<b>Group 0069: Innovative Contracting Incentives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0069:					\$0.00
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	0.81	MILE	\$500,000.00000	\$405,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
Total for Group 0070:					\$405,000.00
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
Total for Group 0071:					\$0.00
<b>Group 0072: Misc. Costs</b>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b>				
	<b>Supplemental Description</b>				
0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	0.00	LS	\$10,000.00000	\$0.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$93,906.97000	\$93,906.97
0239	614E11000 MAINTAINING TRAFFIC 2%	1.00	LS	\$375,627.90000	\$375,627.90
0240	619E16020 FIELD OFFICE, TYPE C	44.00	MNTH	\$2,500.00000	\$110,000.00
0242	624E10000 MOBILIZATION	1.00	LS	\$400,000.00000	\$400,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$93,906.97000	\$93,906.97
0518		0.00		\$0.00000	\$0.00
0519		0.00		\$0.00000	\$0.00
0520		0.00		\$0.00000	\$0.00
0521		0.00		\$0.00000	\$0.00

Total for Group 0072: \$1,073,441.84

**Group 0073: Design Contingency Costs**

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS 25%	1.00	LS	\$4,963,709.19000	\$4,963,709.19

Total for Group 0073: \$4,963,709.19

**Group 0074: Inflation Contingency**

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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Total for Group 0074: \$0.00

## Estimate Alt E OH cont 7

Estimated Cost: \$411,459,793.70

Contingency: 57.60%

**Estimated Total: \$648,460,634.87**

*OH-7 Reconstruction of the New Bridge over the Ohio to North of Linn St*

Base Date: 07/22/10

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District: 8

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	117,932.00	SY	\$8.00000	\$943,456.00

Total for Group 0001: \$943,456.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$30.00000	\$0.00
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Total for Group 0002: \$0.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	193,736.00	CY	\$8.00000	\$1,549,888.00

Total for Group 0003: \$1,549,888.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	197,488.00	CY	\$6.00000	\$1,184,928.00

Total for Group 0005: \$1,184,928.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	3,752.00	CY	\$8.00000	\$30,016.00
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Total for Group 0007: \$30,016.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	11,155.00	FT	\$110.00000	\$1,227,050.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$1,227,050.00

Group 0009: Subgrade Treatment - Lime

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

Group 0010: Subgrade Treatment - Cement

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	122,406.00	SY	\$2.50000	\$306,015.00
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Total for Group 0010: \$306,015.00

Group 0011: Subgrade Treatment - Undercut & Backfill

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

Group 0012: Other Roadway Costs

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0028	202E35200 PIPE REMOVED, OVER 24"	0.00	FT	\$0.00000	\$0.00
0029	202E38000 GUARDRAIL REMOVED	0.00	FT	\$0.00000	\$0.00
0030	202E42206 ANCHOR ASSEMBLY REMOVED	0.00	EACH	\$0.00000	\$0.00
0031	202E58000 MANHOLE REMOVED	0.00	EACH	\$0.00000	\$0.00
0032	202E58100 CATCH BASIN REMOVED	0.00	EACH	\$0.00000	\$0.00
0033	202E75000 FENCE REMOVED	0.00	FT	\$0.00000	\$0.00
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>PROOF ROLLING</b>				
0035	204E10000	0.00	SY	\$0.81000	\$0.00
	<b>SUBGRADE COMPACTION</b>				
0036	451E30000	0.00	FT	\$0.00000	\$0.00
	<b>SPECIAL - PRESSURE RELIEF JOINT, TYPE A</b>				
0037	606E13000	14,675.00	FT	\$14.00000	\$205,450.00
	<b>GUARDRAIL, TYPE 5</b>				
0038	606E22000	0.00	EACH	\$1,411.29597	\$0.00
	<b>ANCHOR ASSEMBLY, TYPE B-98</b>				
0039	606E22010	0.00	EACH	\$1,712.52574	\$0.00
	<b>ANCHOR ASSEMBLY, TYPE E-98</b>				
0040	606E26500	0.00	EACH	\$487.23435	\$0.00
	<b>ANCHOR ASSEMBLY, TYPE T</b>				
0041	606E35000	0.00	EACH	\$969.12750	\$0.00
	<b>BRIDGE TERMINAL ASSEMBLY, TYPE 1</b>				
0042	606E35100	0.00	EACH	\$338.36354	\$0.00
	<b>BRIDGE TERMINAL ASSEMBLY, TYPE 2</b>				
0043	606E60010	0.00	EACH	\$3,439.05897	\$0.00
	<b>IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)</b>				
0044	607E15000	0.00	FT	\$0.00000	\$0.00
	<b>FENCE, TYPE 47</b>				
	<i>For Fencing</i>				
0423	304E20000	0.00	CY	\$0.00000	\$0.00
	<b>AGGREGATE BASE</b>				
	<i>For Fencing</i>				
0424	601E32100	0.00	CY	\$0.00000	\$0.00
	<b>ROCK CHANNEL PROTECTION, TYPE B WITH FILTER</b>				
	<i>For Fencing</i>				
0425	607E40500	0.00	EACH	\$731.31641	\$0.00
	<b>GATE, TYPE 47</b>				
	<i>For Fencing</i>				
0426	625E32000	0.00	EACH	\$0.00000	\$0.00
	<b>GROUND ROD</b>				
	<i>For Fencing</i>				
0466		0.00		\$0.00000	\$0.00

**Total for Group 0012: \$205,450.00**

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	<b>MAJOR COST DRIVERS, EROSION CONTROL</b>				
0467	659E10000	35,073.00	SY	\$1.00000	\$35,073.00
	<b>SEEDING AND MULCHING</b>				
0531	660E25000	0.00	SY	\$15.00000	\$0.00
	<b>SODDING STAKED</b>				

**Total for Group 0014: \$35,073.00**

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	<b>MAJOR COST DRIVERS, EROSION CONTROL</b>				
0469	601E32000	0.00	CY	\$75.00000	\$0.00
	<b>ROCK CHANNEL PROTECTION, TYPE A WITH FILTER</b>				

**Total for Group 0015: \$0.00**

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<b>MAJOR COST DRIVERS, EROSION CONTROL</b>					
0470	832E10000	1.00	LS	\$50,000.00000	\$50,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0471	832E20000	42,000.00	EACH	\$1.00000	\$42,000.00
EROSION CONTROL					

Total for Group 0016: \$92,000.00

**Group 0017: Other Erosion Control Costs**

0049	670E00700	0.00	SY	\$0.00000	\$0.00
DITCH EROSION PROTECTION					
0050	B-OC-ERCO	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, EROSION CONTROL					
0051	659E00100	0.00	EACH	\$0.00000	\$0.00
SOIL ANALYSIS TEST					
0052	659E00300	0.00	CY	\$0.00000	\$0.00
TOPSOIL					
0053	659E14000	0.00	SY	\$0.00000	\$0.00
REPAIR SEEDING AND MULCHING					
0054	659E15000	0.00	SY	\$0.71000	\$0.00
INTER-SEEDING					
0055	659E20000	0.00	TON	\$410.06813	\$0.00
COMMERCIAL FERTILIZER					
0056	659E31000	0.00	ACRE	\$0.00000	\$0.00
LIME					
0057	659E35000	0.00	MGAL	\$5.00000	\$0.00
WATER					
0058	659E40000	0.00	MSF	\$0.00000	\$0.00
MOWING					

Total for Group 0017: \$0.00

**Group 0018: Underdrains**

0059	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0062	605E05100	75,225.00	FT	\$8.00000	\$601,800.00
4" SHALLOW PIPE UNDERDRAINS					

Total for Group 0018: \$601,800.00

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0480	C-MC-DRNG	0.00	FT	\$350.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>					
0481	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0019: \$0.00

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0476	C-MC-DRNG	0.00	FT	\$550.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"*

0477	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete - Headwalls/wingwalls</i>					

Total for Group 0021: \$0.00

**Group 0022: Culverts, Type A: 10' - 20'**

0486	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0487	C-MC-DRNG	0.00	FT	\$1,400.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>					

0488	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0022: \$0.00

**Group 0024: BMP's**

0076	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

Total for Group 0024: \$0.00

**Group 0025: Closed Storm System**

0077	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0489	603E13400	12,454.00	FT	\$75.00000	\$934,050.00
30" CONDUIT, TYPE B (Average size)					

0523	604E00800	128.00	EACH	\$1,500.00000	\$192,000.00
CATCH BASIN, NO. 3A					

0524	604E31500	9.00	EACH	\$3,000.00000	\$27,000.00
MANHOLE, NO. 3					

0525	604E36601	0.00	EACH	\$0.00000	\$0.00
PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN					

0526	Special	0.00	LS	\$6,400,000.00000	\$0.00
Pump Station (Storm)					

0527	Special	0.00	EACH	\$5,750.00000	\$0.00
Stormceptors					

0529	Special	0.00	LS	\$109,000.00000	\$0.00
Retention basin improvements					

Total for Group 0025: \$1,153,050.00

**Group 0026: Other Drainage Costs**

0078	C-OC-DRNG	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, DRAINAGE					

Total for Group 0026: \$0.00

**Group 0027: Mainline - Travel Lanes**

0095	D-MC-PVMT	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT					

0494	D-MC-PVMT	39,260.00	SY	\$68.00000	\$2,669,680.00
13" Reinforced Concrete Pavement					
<i>Includes 6" Agg Base and Subgrade Compaction</i>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0027: \$2,669,680.00

**Group 0028: Mainline - Outside Shoulder**

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	8,453.00	SY	\$68.00000	\$574,804.00

Total for Group 0028: \$574,804.00

**Group 0030: Mainline - Inside Shoulder**

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	8,932.00	SY	\$68.00000	\$607,376.00

Total for Group 0030: \$607,376.00

**Group 0031: Ramps (including shoulders)**

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	29,120.00	SY	\$68.00000	\$1,980,160.00

Total for Group 0031: \$1,980,160.00

**Group 0032: Non - Mainline Lanes**

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	36,641.00	SY	\$41.00000	\$1,502,281.00

Total for Group 0032: \$1,502,281.00

**Group 0041: Other Pavement Costs**

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

**Group 0042: Water Works**

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

**Group 0043: Sanitary Line**

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0043: \$0.00

Group 0044: Lighting - Full Interchange

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	3.00	EACH	\$469,000.00000	\$1,407,000.00

Total for Group 0044: \$1,407,000.00

Group 0045: Lighting - Partial Interchange

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

Group 0046: Lighting - Continuous Roadway

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	17,952.00	FT	\$35.00000	\$628,320.00

Total for Group 0046: \$628,320.00

Group 0047: Other Lighting Costs

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

Group 0048: Traffic Surveillance

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	1.00	LS	\$3,143,783.86000	\$3,143,783.86
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Total for Group 0048: \$3,143,783.86

Group 0049: Signs

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	3.40	MILE	\$250,000.00000	\$850,000.00

Total for Group 0049: \$850,000.00

Group 0050: Pavement Marking

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	16.60	MILE	\$3,000.00000	\$49,800.00
0503	644E00200 LANE LINE	12.50	MILE	\$2,000.00000	\$25,000.00

Total for Group 0050: \$74,800.00

Group 0051: Other Traffic Control Costs

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00

Total for Group 0051: \$0.00

Group 0052: Signals - Intersections

0212	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS	6.50	EACH	\$175,000.00000	\$1,137,500.00
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Total for Group 0052: \$1,137,500.00

Group 0053: Other Traffic Signal Costs

0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0053: \$0.00

Group 0054: Landscaping

0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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Total for Group 0054: \$0.00

Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing

0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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0504	M-MC-WALL Retaining Walls	38,655.00	SF	\$135.00000	\$5,218,425.00
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Total for Group 0055: \$5,218,425.00

Group 0056: Other Retaining Wall Costs

0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0056: \$0.00

Group 0057: Building Demolition

0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0534	202E98100 REMOVAL MISC.: <i>Radio Tower</i>	0.00	EACH	\$8,500.00000	\$0.00
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0535	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Residential</i>	0.00	EACH	\$7,500.00000	\$0.00
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0536	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	3.00	EACH	\$15,000.00000	\$45,000.00
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0537	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Residential</i>	0.00	EACH	\$12,000.00000	\$0.00
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0538	202E56101	1.00	EACH	\$30,000.00000	\$30,000.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

BUILDING DEMOLISHED, AS PER PLAN  
*Large Commercial*

Total for Group 0057: \$75,000.00

**Group 0058: Noise Barrier**

0220	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0505	P-MC-NSBR Noise Barrier	0.00	LS	\$25.00000	\$0.00

Total for Group 0058: \$0.00

**Group 0059: Other Noise Barrier Costs**

0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00

Total for Group 0059: \$0.00

**Group 0060: New Structures**

0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	13,862.00	SF	\$125.00000	\$1,732,750.00
0507	R-MC-STRC Removal of Existing Structures non-complex	0.00	SF	\$12.00000	\$0.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	417,592.00	SF	\$17.00000	\$7,099,064.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	267,265.00	SF	\$30.00000	\$8,017,950.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	258,057.00	SF	\$150.00000	\$38,708,550.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	1,165,330.00	SF	\$200.00000	\$233,066,000.00

Total for Group 0060: \$288,624,314.00

**Group 0061: Rehabilitated Structures**

0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	0.00	SF	\$45.00000	\$0.00
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Total for Group 0061: \$0.00

**Group 0062: Other Structure Costs**

0224	R-OC-STRC OTHER COSTS, STRUCTURES <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
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Total for Group 0062: \$0.00

**Group 0063: Temporary Road and Pavement Costs**

0225	S-MC-MNTC MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
<b>Total for Group 0063:</b>					<b>\$0.00</b>
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0064:</b>					<b>\$0.00</b>
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0065:</b>					<b>\$0.00</b>
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0066:</b>					<b>\$0.00</b>
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0067:</b>					<b>\$0.00</b>
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0068:</b>					<b>\$0.00</b>
<b>Group 0069: Innovative Contracting Incentatives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0069:</b>					<b>\$0.00</b>
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	3.40	MILE	\$500,000.00000	\$1,700,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0070:</b>					<b>\$1,700,000.00</b>
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
<b>Total for Group 0071:</b>					<b>\$0.00</b>
<b>Group 0072: Misc. Costs</b>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b><u>Supplemental Description</u></b>				
0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	1.00	LS	\$10,000.00000	\$10,000.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$1,587,610.85000	\$1,587,610.85
0239	614E11000 MAINTAINING TRAFFIC 2%	1.00	LS	\$6,350,443.40000	\$6,350,443.40
0240	619E16020 FIELD OFFICE, TYPE C	44.00	MNTH	\$2,500.00000	\$110,000.00
0242	624E10000 MOBILIZATION	1.00	LS	\$2,000,000.00000	\$2,000,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$1,587,610.85000	\$1,587,610.85

Total for Group 0072: \$11,645,665.10

Group 0073: Design Contingency Costs

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS 25%	1.00	LS	\$82,291,958.74000	\$82,291,958.74

Total for Group 0073: \$82,291,958.74

Group 0074: Inflation Contingency

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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Total for Group 0074: \$0.00

Macro View

										Attributes					
Acquisition	Unit (SF) or (Acreage)	X	Cost/Unit (\$\$/SF) (\$\$/Acre)	Subtotal Land Value	+	Structure Values (if Taken)	+	Damages (Loss in Value to the Residue)	=	Subtotal Structures & Damages	Total Non Labor Acquisition Costs	Parcel Count	Total Takes	Partial Takes	No. of Structures Impacted
-Residential	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	\$0.00	0	0	0	0
-Commercial	1.65	X	\$542,378.85	\$894,925	+	6684870	+	N/A	=	\$6,684,870.00	\$7,579,795.10	11	3	8	3
-Industrial	5.66	X	\$153,756.16	\$870,260	+	3740	+	N/A	=	\$3,740.00	\$873,999.87	15	6	9	1
-Agricultural	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	\$0.00	0	0	0	0
Relocation	Unit (Displacement)	X	*RHP/*RSP		+	Move Cost	+	Reestablishment	=	Total Non Labor RAP Costs	Estimate amount of time necessary to relocate all RAP parcels = (months) 24				
-Residential Owner Occupant	0	X	\$34,000		+	\$6,000			=	\$0	Estimate number of years until project wide R/W acquisition begins = 2				
-Residential Tenant	0	X	\$10,000		+	\$1,750			=	\$0					
-Commerical/Farm/NPO Owner	3				X	\$15,000	+	\$10,000	=	\$75,000					
-Commerical/Farm/NPO Tenant	22				X	\$15,000	+	\$10,000	=	\$550,000					
-Personal Property	0				X	\$1,000			=	\$0					
$\{((\text{Total Cost of Acquisition Cost}) \times 0.90) \times 0.025\} + \{((\text{Total of Acquisition Cost}) \times 0.15) \times 1.20\} + \{((\text{Total of Acquisition Cost}) \times 0.10) \times 1.50\} = \text{Contingency}$									Contingency (Incidentals, Admin. Review & Appropriation)		2979962.726		*RHP - Replacement Housing Payment *RSP - Rent Supplemental Payment *NPO - Non-Profit Organization		
<b>Total Non Labor R/W Costs</b>											<b>\$12,058,757.69</b>				

**Instruction for Acquisition & Relocation Cost Estimates**

Estimate the total number of acres involved in the project and allocate those acres into the four categories shown.

Assign an average unit price for each category. These unit prices are typically taken from the auditors tax card data. Cost Estimates prepared at Step 4 (Step 7 on Major Projects) and thereafter must base unit prices on a project sales data book instead of tax card data.

Add structure values from the auditors tax cards only if the structures are taken.

Damages must be assessed by a pre-qualified expert with experience in Before & After analysis. This usually occurs at Step 4 for Minor projects (Step 6 on Major Projects) and requires some knowledge of the impacts of the project on structures.

Relocation Cost Estimates must consider the complexity of the move process. All move estimates that involve a business or a multi-tenant residential structure should use the services of a relocation Assistance professional to accurately gauge costs.

Macro View

Labor (External)	Unit (Parcels)	X	Unit Price	=	Total Cost
Titles	26	X	\$400	=	\$10,400
Appraisal -Simple	3	X	\$750	=	\$2,250
Appraisal -Detailed	23	X	\$4,500	=	\$103,500
Appraisal Review -Simple	3	X	\$500	=	\$1,500
Appraisal Review -Detailed	23	X	\$2,000	=	\$46,000
Negotiations	26	X	\$1,100	=	\$28,600
Relocations -Personal Property	0	X	\$1,500	=	\$0
Relocations -Residential	0	X	\$5,200	=	\$0
Relocations -Commercial/Farm/*NPO	25	X	\$5,600	=	\$140,000
Closings	26	X	\$400	=	\$10,400
Project Management	26	X	\$550	=	\$14,300
Asbestos Testing & Abatement		X		=	
<b>Total Labor Costs</b>					<b>\$356,950</b>

\*NPO = Non-Profit Organization

This R/W Cost Estimate Prepared by	Date
Chris Clemons	8/4/2010
This R/W Cost Estimate was performed at Step <u>6</u> of the PDP for <u>MAJOR</u> Projects using _____	

<b>Total Labor Costs</b>	\$356,950.00
<b>Total Non Labor R/W Costs</b>	\$12,058,757.69
<b>Inflation Adjustments</b>	\$1,018,088.03
<b>Total R/W Costs</b>	<b>\$13,433,795.72</b>

**Instructions for Labor Cost Estimates**

Labor costs are a function of time, distance, and talent. Labor costs estimates should reflect the complexity of the project and the talent necessary to acquire the right of way in a timely manner. The person making the cost estimate may adjust the figures given for the particular project being estimated to reflect local labor costs. It is critical that the estimate be labeled to reflect the alignment alternative, the step in the PDP process and the person(s) performing the estimate.

**Comments**

Cost/Unit were generated from auditors tax card data.

**P.D.P. R/W Cost Estimator**



## Estimate Alt I KY cont 2

Estimated Cost: \$7,209,761.51

Contingency: 46.50%

**Estimated Total: \$10,562,300.61**

Base Date: 01/01/15

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District:

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	2,373.00	SY	\$8.00000	\$18,984.00

Total for Group 0001: \$18,984.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1,104.00	CY	\$30.00000	\$33,120.00
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Total for Group 0002: \$33,120.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	9,936.00	CY	\$8.00000	\$79,488.00

Total for Group 0003: \$79,488.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	11,040.00	CY	\$6.00000	\$66,240.00

Total for Group 0005: \$66,240.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$8.00000	\$0.00
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Total for Group 0007: \$0.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	0.00	FT	\$110.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
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CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$0.00

**Group 0009: Subgrade Treatment - Lime**

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

**Group 0010: Subgrade Treatment - Cement**

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	3,309.00	SY	\$2.50000	\$8,272.50
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Total for Group 0010: \$8,272.50

**Group 0011: Subgrade Treatment - Undercut & Backfill**

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

**Group 0012: Other Roadway Costs**

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0028	202E35200 PIPE REMOVED, OVER 24"	0.00	FT		\$0.00
0029	202E38000 GUARDRAIL REMOVED	0.00	FT		\$0.00
0030	202E42206 ANCHOR ASSEMBLY REMOVED	0.00	EACH		\$0.00
0031	202E58000 MANHOLE REMOVED	0.00	EACH		\$0.00
0032	202E58100 CATCH BASIN REMOVED	0.00	EACH		\$0.00
0033	202E75000 FENCE REMOVED	0.00	FT		\$0.00
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>PROOF ROLLING</b>				
0035	204E10000	0.00	SY	\$0.81000	\$0.00
	SUBGRADE COMPACTION				
0036	451E30000	0.00	FT		\$0.00
	SPECIAL - PRESSURE RELIEF JOINT, TYPE A				
0037	606E13000	0.00	FT	\$14.00000	\$0.00
	GUARDRAIL, TYPE 5				
0038	606E22000	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE B-98				
0039	606E22010	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE E-98				
0040	606E26500	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE T				
0041	606E35000	0.00	EACH		\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 1				
0042	606E35100	0.00	EACH		\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 2				
0043	606E60010	0.00	EACH		\$0.00
	IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)				
0044	607E15000	0.00	FT		\$0.00
	FENCE, TYPE 47				
	<i>For Fencing</i>				
0423	304E20000	0.00	CY		\$0.00
	AGGREGATE BASE				
	<i>For Fencing</i>				
0424	601E32100	0.00	CY		\$0.00
	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER				
	<i>For Fencing</i>				
0425	607E40500	0.00	EACH		\$0.00
	GATE, TYPE 47				
	<i>For Fencing</i>				
0426	625E32000	0.00	EACH		\$0.00
	GROUND ROD				
	<i>For Fencing</i>				
0466		0.00		\$0.00000	\$0.00

Total for Group 0012: \$0.00

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0467	659E10000	1,328.00	SY	\$1.00000	\$1,328.00
	SEEDING AND MULCHING				
0531	660E25000	0.00	SY	\$15.00000	\$0.00
	SODDING STAKED				

Total for Group 0014: \$1,328.00

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0469	601E32000	24.00	CY	\$75.00000	\$1,800.00
	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER				

Total for Group 0015: \$1,800.00

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
MAJOR COST DRIVERS, EROSION CONTROL					
0470	832E10000	1.00	LS	\$20,000.00000	\$20,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0471	832E20000	3,000.00	EACH	\$1.00000	\$3,000.00
EROSION CONTROL					
<b>Total for Group 0016:</b>					<b>\$23,000.00</b>

**Group 0017: Other Erosion Control Costs**

0049	670E00700	0.00	SY		\$0.00
DITCH EROSION PROTECTION					
0050	B-OC-ERCO	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, EROSION CONTROL					
0051	659E00100	0.00	EACH	\$0.00000	\$0.00
SOIL ANALYSIS TEST					
0052	659E00300	0.00	CY		\$0.00
TOPSOIL					
0053	659E14000	0.00	SY		\$0.00
REPAIR SEEDING AND MULCHING					
0054	659E15000	0.00	SY	\$0.71000	\$0.00
INTER-SEEDING					
0055	659E20000	0.00	TON		\$0.00
COMMERCIAL FERTILIZER					
0056	659E31000	0.00	ACRE	\$0.00000	\$0.00
LIME					
0057	659E35000	0.00	MGAL	\$5.00000	\$0.00
WATER					
0058	659E40000	0.00	MSF	\$0.00000	\$0.00
MOWING					
<b>Total for Group 0017:</b>					<b>\$0.00</b>

**Group 0018: Underdrains**

0059	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0062	605E05100	1,223.00	FT	\$8.00000	\$9,784.00
4" SHALLOW PIPE UNDERDRAINS					
<b>Total for Group 0018:</b>					<b>\$9,784.00</b>

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0480	C-MC-DRNG	0.00	FT	\$350.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>					
0481	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					
<b>Total for Group 0019:</b>					<b>\$0.00</b>

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0476	C-MC-DRNG	0.00	FT	\$550.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"*

0477	C-MC-DRNG	0.00	EACH	\$2,000.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete - Headwalls/wingwalls</i>					

Total for Group 0021: \$0.00

**Group 0022: Culverts, Type A: 10' - 20'**

0486	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0487	C-MC-DRNG	0.00	FT	\$1,400.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>					

0488	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0022: \$0.00

**Group 0024: BMP's**

0076	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

Total for Group 0024: \$0.00

**Group 0025: Closed Storm System**

0077	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0489	603E13400	190.00	FT	\$75.00000	\$14,250.00
30" CONDUIT, TYPE B (Average size)					

0523	604E00800	4.00	EACH	\$1,500.00000	\$6,000.00
CATCH BASIN, NO. 3A					

0524	604E31500	0.00	EACH	\$3,000.00000	\$0.00
MANHOLE, NO. 3					

0525	604E36601	2.00	EACH	\$1,250.00000	\$2,500.00
PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN					

0526	Special	0.00	LS	\$6,400,000.00000	\$0.00
Pump Station (Storm)					

0527	Special	0.00	EACH	\$5,750.00000	\$0.00
Stormceptors					

0529	Special	0.00	LS	\$109,000.00000	\$0.00
Retention basin improvements					

Total for Group 0025: \$22,750.00

**Group 0026: Other Drainage Costs**

0078	C-OC-DRNG	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, DRAINAGE					

Total for Group 0026: \$0.00

**Group 0027: Mainline - Travel Lanes**

0095	D-MC-PVMT	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT					

0494	D-MC-PVMT	0.00	SY	\$68.00000	\$0.00
13" Reinforced Concrete Pavement					
<i>Includes 6" Agg Base and Subgrade Compaction</i>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0027: \$0.00

**Group 0028: Mainline - Outside Shoulder**

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0028: \$0.00

**Group 0030: Mainline - Inside Shoulder**

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0030: \$0.00

**Group 0031: Ramps (including shoulders)**

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0031: \$0.00

**Group 0032: Non - Mainline Lanes**

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	3,309.00	SY	\$41.00000	\$135,669.00

Total for Group 0032: \$135,669.00

**Group 0041: Other Pavement Costs**

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

**Group 0042: Water Works**

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

**Group 0043: Sanitary Line**

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0043: \$0.00

Group 0044: Lighting - Full Interchange

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	EACH	\$469,000.00000	\$0.00

Total for Group 0044: \$0.00

Group 0045: Lighting - Partial Interchange

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

Group 0046: Lighting - Continuous Roadway

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	1,510.00	FT	\$35.00000	\$52,850.00

Total for Group 0046: \$52,850.00

Group 0047: Other Lighting Costs

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

Group 0048: Traffic Surveillance

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	0.00	LS	\$0.00000	\$0.00
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Total for Group 0048: \$0.00

Group 0049: Signs

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	0.29	MILE	\$250,000.00000	\$72,500.00

Total for Group 0049: \$72,500.00

Group 0050: Pavement Marking

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	0.11	MILE	\$3,000.00000	\$330.00
0503	644E00200 LANE LINE	0.16	MILE	\$2,000.00000	\$320.00

Total for Group 0050: \$650.00

Group 0051: Other Traffic Control Costs



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00

Total for Group 0051: \$0.00

Group 0052: Signals - Intersections

0212	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS	2.00	EACH	\$175,000.00000	\$350,000.00
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Total for Group 0052: \$350,000.00

Group 0053: Other Traffic Signal Costs

0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0053: \$0.00

Group 0054: Landscaping

0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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Total for Group 0054: \$0.00

Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing

0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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0504	M-MC-WALL Retaining Walls	0.00	SF	\$135.00000	\$0.00
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Total for Group 0055: \$0.00

Group 0056: Other Retaining Wall Costs

0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0056: \$0.00

Group 0057: Building Demolition

0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0533	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Commercial</i>	0.00	EACH	\$30,000.00000	\$0.00
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0534	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	0.00	EACH	\$15,000.00000	\$0.00
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0535	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Residential</i>	0.00	EACH	\$12,000.00000	\$0.00
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0536	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Residential</i>	0.00	EACH	\$7,500.00000	\$0.00
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0537	202E98100	0.00	EACH	\$8,500.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
REMOVAL MISC.: Radio Tower					
Total for Group 0057:					\$0.00
<b>Group 0058: Noise Barrier</b>					
0220	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0505	P-MC-NSBR Noise Barrier	0.00	LS	\$400.00000	\$0.00
Total for Group 0058:					\$0.00
<b>Group 0059: Other Noise Barrier Costs</b>					
0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00
Total for Group 0059:					\$0.00
<b>Group 0060: New Structures</b>					
0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	31,313.00	SF	\$125.00000	\$3,914,125.00
0507	R-MC-STRC Removal of Existing Structures non-complex	0.00	SF	\$12.00000	\$0.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	24,939.00	SF	\$17.00000	\$423,963.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	0.00	SF	\$30.00000	\$0.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	0.00	SF	\$150.00000	\$0.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	0.00	SF	\$200.00000	\$0.00
Total for Group 0060:					\$4,338,088.00
<b>Group 0061: Rehabilitated Structures</b>					
0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	0.00	SF	\$45.00000	\$0.00
Total for Group 0061:					\$0.00
<b>Group 0062: Other Structure Costs</b>					
0224	R-OC-STRC OTHER COSTS, STRUCTURES Contingency	0.00	LS	\$0.00000	\$0.00
Total for Group 0062:					\$0.00
<b>Group 0063: Temporary Road and Pavement Costs</b>					
0225	S-MC-MNTC MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	1.00	LS	\$0.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
<b>Total for Group 0063:</b>					<b>\$0.00</b>
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0064:</b>					<b>\$0.00</b>
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0065:</b>					<b>\$0.00</b>
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0066:</b>					<b>\$0.00</b>
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0067:</b>					<b>\$0.00</b>
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0068:</b>					<b>\$0.00</b>
<b>Group 0069: Innovative Contracting Incentives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0069:</b>					<b>\$0.00</b>
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	0.29	MILE	\$500,000.00000	\$145,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0070:</b>					<b>\$145,000.00</b>
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
<b>Total for Group 0071:</b>					<b>\$0.00</b>
<b>Group 0072: Misc. Costs</b>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b><u>Supplemental Description</u></b>				
0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	0.00	LS	\$10,000.00000	\$0.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$26,797.62000	\$26,797.62
0239	614E11000 MAINTAINING TRAFFIC 2%	1.00	LS	\$107,190.47000	\$107,190.47
0240	619E16020 FIELD OFFICE, TYPE C	19.00	MNTH	\$2,500.00000	\$47,500.00
0242	624E10000 MOBILIZATION	1.00	LS	\$200,000.00000	\$200,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$26,797.62000	\$26,797.62
0518		0.00		\$0.00000	\$0.00
0519		0.00		\$0.00000	\$0.00
0520		0.00		\$0.00000	\$0.00
0521		0.00		\$0.00000	\$0.00
0532		0.00		\$0.00000	\$0.00
<b>Total for Group 0072: \$408,285.71</b>					

**Group 0073: Design Contingency Costs**

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS 25%	1.00	LS	\$1,441,952.30000	\$1,441,952.30

**Total for Group 0073: \$1,441,952.30**

**Group 0074: Inflation Contingency**

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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**Total for Group 0074: \$0.00**

## Estimate Alt I KY cont 3

Estimated Cost: \$7,818,842.99

Contingency: 29.70%

**Estimated Total: \$10,141,039.36**

Base Date: 01/01/15

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District:

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	2,006.00	SY	\$8.00000	\$16,048.00

Total for Group 0001: \$16,048.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1,960.00	CY	\$30.00000	\$58,800.00
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Total for Group 0002: \$58,800.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	17,640.00	CY	\$8.00000	\$141,120.00

Total for Group 0003: \$141,120.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	19,600.00	CY	\$6.00000	\$117,600.00

Total for Group 0005: \$117,600.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$8.00000	\$0.00
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Total for Group 0007: \$0.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	0.00	FT	\$110.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$0.00

**Group 0009: Subgrade Treatment - Lime**

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

**Group 0010: Subgrade Treatment - Cement**

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	533.00	SY	\$2.50000	\$1,332.50
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Total for Group 0010: \$1,332.50

**Group 0011: Subgrade Treatment - Undercut & Backfill**

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

**Group 0012: Other Roadway Costs**

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0028	202E35200 PIPE REMOVED, OVER 24"	0.00	FT		\$0.00
0029	202E38000 GUARDRAIL REMOVED	0.00	FT		\$0.00
0030	202E42206 ANCHOR ASSEMBLY REMOVED	0.00	EACH		\$0.00
0031	202E58000 MANHOLE REMOVED	0.00	EACH		\$0.00
0032	202E58100 CATCH BASIN REMOVED	0.00	EACH		\$0.00
0033	202E75000 FENCE REMOVED	0.00	FT		\$0.00
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>PROOF ROLLING</b>				
0035	204E10000	0.00	SY	\$0.81000	\$0.00
	SUBGRADE COMPACTION				
0036	451E30000	0.00	FT		\$0.00
	SPECIAL - PRESSURE RELIEF JOINT, TYPE A				
0037	606E13000	0.00	FT	\$14.00000	\$0.00
	GUARDRAIL, TYPE 5				
0038	606E22000	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE B-98				
0039	606E22010	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE E-98				
0040	606E26500	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE T				
0041	606E35000	0.00	EACH		\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 1				
0042	606E35100	0.00	EACH		\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 2				
0043	606E60010	0.00	EACH		\$0.00
	IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)				
0044	607E15000	0.00	FT		\$0.00
	FENCE, TYPE 47				
	<i>For Fencing</i>				
0423	304E20000	0.00	CY		\$0.00
	AGGREGATE BASE				
	<i>For Fencing</i>				
0424	601E32100	0.00	CY		\$0.00
	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER				
	<i>For Fencing</i>				
0425	607E40500	0.00	EACH		\$0.00
	GATE, TYPE 47				
	<i>For Fencing</i>				
0426	625E32000	0.00	EACH		\$0.00
	GROUND ROD				
	<i>For Fencing</i>				
0466		0.00		\$0.00000	\$0.00

Total for Group 0012: \$0.00

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0467	659E10000	0.00	SY	\$1.00000	\$0.00
	SEEDING AND MULCHING				
0531	660E25000	0.00	SY	\$15.00000	\$0.00
	SODDING STAKED				

Total for Group 0014: \$0.00

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0469	601E32000	0.00	CY	\$75.00000	\$0.00
	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER				

Total for Group 0015: \$0.00

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<b>MAJOR COST DRIVERS, EROSION CONTROL</b>					
0470	832E10000	1.00	LS	\$20,000.00000	\$20,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0471	832E20000	10,000.00	EACH	\$1.00000	\$10,000.00
EROSION CONTROL					

Total for Group 0016: \$30,000.00

**Group 0017: Other Erosion Control Costs**

0049	670E00700	0.00	SY		\$0.00
DITCH EROSION PROTECTION					
0050	B-OC-ERCO	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, EROSION CONTROL					
0051	659E00100	0.00	EACH	\$0.00000	\$0.00
SOIL ANALYSIS TEST					
0052	659E00300	0.00	CY		\$0.00
TOPSOIL					
0053	659E14000	0.00	SY		\$0.00
REPAIR SEEDING AND MULCHING					
0054	659E15000	0.00	SY	\$0.71000	\$0.00
INTER-SEEDING					
0055	659E20000	0.00	TON		\$0.00
COMMERCIAL FERTILIZER					
0056	659E31000	0.00	ACRE	\$0.00000	\$0.00
LIME					
0057	659E35000	0.00	MGAL	\$5.00000	\$0.00
WATER					
0058	659E40000	0.00	MSF	\$0.00000	\$0.00
MOWING					

Total for Group 0017: \$0.00

**Group 0018: Underdrains**

0059	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0062	605E05100	0.00	FT	\$8.00000	\$0.00
4" SHALLOW PIPE UNDERDRAINS					

Total for Group 0018: \$0.00

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0480	C-MC-DRNG	0.00	FT	\$350.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>					
0481	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0019: \$0.00

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0476	C-MC-DRNG	0.00	FT	\$550.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"*

0477	C-MC-DRNG	0.00	EACH	\$2,000.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete - Headwalls/wingwalls</i>					

Total for Group 0021: \$0.00

**Group 0022: Culverts, Type A: 10' - 20'**

0486	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0487	C-MC-DRNG	0.00	FT	\$1,400.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>					

0488	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0022: \$0.00

**Group 0024: BMP's**

0076	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

Total for Group 0024: \$0.00

**Group 0025: Closed Storm System**

0077	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0489	603E13400	0.00	FT	\$75.00000	\$0.00
30" CONDUIT, TYPE B (Average size)					

0523	604E00800	0.00	EACH	\$1,500.00000	\$0.00
CATCH BASIN, NO. 3A					

0524	604E31500	0.00	EACH	\$3,000.00000	\$0.00
MANHOLE, NO. 3					

0525		0.00		\$0.00000	\$0.00
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0526	Special	0.00	LS	\$6,400,000.00000	\$0.00
Pump Station (Storm)					

0527	Special	0.00	EACH	\$5,750.00000	\$0.00
Stormceptors					

0529	Special	0.00	LS	\$109,000.00000	\$0.00
Retention basin improvements					

Total for Group 0025: \$0.00

**Group 0026: Other Drainage Costs**

0078	C-OC-DRNG	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, DRAINAGE					

Total for Group 0026: \$0.00

**Group 0027: Mainline - Travel Lanes**

0095	D-MC-PVMT	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT					

0494	D-MC-PVMT	0.00	SY	\$68.00000	\$0.00
13" Reinforced Concrete Pavement					
<i>Includes 6" Agg Base and Subgrade Compaction</i>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0027: \$0.00

**Group 0028: Mainline - Outside Shoulder**

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0028: \$0.00

**Group 0030: Mainline - Inside Shoulder**

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0030: \$0.00

**Group 0031: Ramps (including shoulders)**

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0031: \$0.00

**Group 0032: Non - Mainline Lanes**

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	533.00	SY	\$41.00000	\$21,853.00

Total for Group 0032: \$21,853.00

**Group 0041: Other Pavement Costs**

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

**Group 0042: Water Works**

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

**Group 0043: Sanitary Line**

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0043: \$0.00

Group 0044: Lighting - Full Interchange

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	EACH	\$469,000.00000	\$0.00

Total for Group 0044: \$0.00

Group 0045: Lighting - Partial Interchange

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

Group 0046: Lighting - Continuous Roadway

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	840.00	FT	\$35.00000	\$29,400.00

Total for Group 0046: \$29,400.00

Group 0047: Other Lighting Costs

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

Group 0048: Traffic Surveillance

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	0.00	LS	\$0.00000	\$0.00
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Total for Group 0048: \$0.00

Group 0049: Signs

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	0.16	MILE	\$250,000.00000	\$40,000.00

Total for Group 0049: \$40,000.00

Group 0050: Pavement Marking

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	0.18	MILE	\$3,000.00000	\$540.00
0503	644E00200 LANE LINE	0.13	MILE	\$2,000.00000	\$260.00

Total for Group 0050: \$800.00

Group 0051: Other Traffic Control Costs

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00

Total for Group 0051: \$0.00

**Group 0052: Signals - Intersections**

0212	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS	2.00	EACH	\$175,000.00000	\$350,000.00
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Total for Group 0052: \$350,000.00

**Group 0053: Other Traffic Signal Costs**

0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0053: \$0.00

**Group 0054: Landscaping**

0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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Total for Group 0054: \$0.00

**Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing**

0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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0504	M-MC-WALL Retaining Walls	0.00	SF	\$135.00000	\$0.00
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Total for Group 0055: \$0.00

**Group 0056: Other Retaining Wall Costs**

0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0056: \$0.00

**Group 0057: Building Demolition**

0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0532	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Commercial</i>	0.00	EACH	\$30,000.00000	\$0.00
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0533	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	0.00	EACH	\$15,000.00000	\$0.00
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0534	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Residential</i>	0.00	EACH	\$12,000.00000	\$0.00
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0535	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Residential</i>	0.00	EACH	\$7,500.00000	\$0.00
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0536	202E98100	0.00	EACH	\$8,500.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
REMOVAL MISC.: Radio Tower					
Total for Group 0057:					\$0.00
<b>Group 0058: Noise Barrier</b>					
0220	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0505	P-MC-NSBR Noise Barrier	0.00	LS	\$400.00000	\$0.00
Total for Group 0058:					\$0.00
<b>Group 0059: Other Noise Barrier Costs</b>					
0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00
Total for Group 0059:					\$0.00
<b>Group 0060: New Structures</b>					
0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	0.00	SF	\$125.00000	\$0.00
0507	R-MC-STRC Removal of Existing Structures non-complex	0.00	SF	\$12.00000	\$0.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	17,629.00	SF	\$17.00000	\$299,693.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	0.00	SF	\$30.00000	\$0.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	30,973.00	SF	\$150.00000	\$4,645,950.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	0.00	SF	\$200.00000	\$0.00
Total for Group 0060:					\$4,945,643.00
<b>Group 0061: Rehabilitated Structures</b>					
0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	0.00	SF	\$45.00000	\$0.00
Total for Group 0061:					\$0.00
<b>Group 0062: Other Structure Costs</b>					
0224	R-OC-STRC OTHER COSTS, STRUCTURES Contingency	0.00	LS	\$0.00000	\$0.00
Total for Group 0062:					\$0.00
<b>Group 0063: Temporary Road and Pavement Costs</b>					
0225	S-MC-MNTC MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	1.00	LS	\$0.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
Total for Group 0063:					\$0.00
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0064:					\$0.00
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0065:					\$0.00
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0066:					\$0.00
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0067:					\$0.00
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0068:					\$0.00
<b>Group 0069: Innovative Contracting Incentatives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0069:					\$0.00
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	0.16	MILE	\$500,000.00000	\$80,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
Total for Group 0070:					\$80,000.00
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
Total for Group 0071:					\$0.00
<b>Group 0072: Misc. Costs</b>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b><u>Supplemental Description</u></b>				
0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	0.00	LS	\$10,000.00000	\$0.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$29,162.98000	\$29,162.98
0239	614E11000 MAINTAINING TRAFFIC 2%	1.00	LS	\$116,651.93000	\$116,651.93
0240	619E16020 FIELD OFFICE, TYPE C	19.00	MNTH	\$2,500.00000	\$47,500.00
0242	624E10000 MOBILIZATION	1.00	LS	\$200,000.00000	\$200,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$29,162.98000	\$29,162.98
0518		0.00		\$0.00000	\$0.00
0519		0.00		\$0.00000	\$0.00
0520		0.00		\$0.00000	\$0.00
0521		0.00		\$0.00000	\$0.00

Total for Group 0072: \$422,477.89

**Group 0073: Design Contingency Costs**

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS 25%	1.00	LS	\$1,563,768.60000	\$1,563,768.60

Total for Group 0073: \$1,563,768.60

**Group 0074: Inflation Contingency**

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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Total for Group 0074: \$0.00



## Estimate Alt I KY cont 5

Estimated Cost: \$71,530,905.30

Contingency: 57.60%

**Estimated Total: \$112,732,706.75**

Base Date: 01/01/15

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District:

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	212,051.00	SY	\$8.00000	\$1,696,408.00

Total for Group 0001: \$1,696,408.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	146,868.00	CY	\$30.00000	\$4,406,040.00
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Total for Group 0002: \$4,406,040.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	342,692.00	CY	\$8.00000	\$2,741,536.00

Total for Group 0003: \$2,741,536.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	489,560.00	CY	\$6.00000	\$2,937,360.00

Total for Group 0005: \$2,937,360.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$8.00000	\$0.00
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Total for Group 0007: \$0.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	20,800.00	FT	\$110.00000	\$2,288,000.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$2,288,000.00

Group 0009: Subgrade Treatment - Lime

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

Group 0010: Subgrade Treatment - Cement

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	298,491.00	SY	\$2.50000	\$746,227.50
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Total for Group 0010: \$746,227.50

Group 0011: Subgrade Treatment - Undercut & Backfill

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

Group 0012: Other Roadway Costs

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0028	202E35200 PIPE REMOVED, OVER 24"	0.00	FT		\$0.00
0029	202E38000 GUARDRAIL REMOVED	0.00	FT		\$0.00
0030	202E42206 ANCHOR ASSEMBLY REMOVED	0.00	EACH		\$0.00
0031	202E58000 MANHOLE REMOVED	0.00	EACH		\$0.00
0032	202E58100 CATCH BASIN REMOVED	0.00	EACH		\$0.00
0033	202E75000 FENCE REMOVED	0.00	FT		\$0.00
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>PROOF ROLLING</b>				
0035	204E10000	0.00	SY	\$0.81000	\$0.00
	SUBGRADE COMPACTION				
0036	451E30000	0.00	FT		\$0.00
	SPECIAL - PRESSURE RELIEF JOINT, TYPE A				
0037	606E13000	5,300.00	FT	\$14.00000	\$74,200.00
	GUARDRAIL, TYPE 5				
0038	606E22000	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE B-98				
0039	606E22010	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE E-98				
0040	606E26500	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE T				
0041	606E35000	0.00	EACH		\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 1				
0042	606E35100	0.00	EACH		\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 2				
0043	606E60010	0.00	EACH		\$0.00
	IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)				
0044	607E15000	0.00	FT		\$0.00
	FENCE, TYPE 47				
	<i>For Fencing</i>				
0423	304E20000	0.00	CY		\$0.00
	AGGREGATE BASE				
	<i>For Fencing</i>				
0424	601E32100	0.00	CY		\$0.00
	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER				
	<i>For Fencing</i>				
0425	607E40500	0.00	EACH		\$0.00
	GATE, TYPE 47				
	<i>For Fencing</i>				
0426	625E32000	0.00	EACH		\$0.00
	GROUND ROD				
	<i>For Fencing</i>				
0466		0.00		\$0.00000	\$0.00

Total for Group 0012: \$74,200.00

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0467	659E10000	133,774.00	SY	\$1.00000	\$133,774.00
	SEEDING AND MULCHING				
0531	660E25000	0.00	SY	\$15.00000	\$0.00
	SODDING STAKED				

Total for Group 0014: \$133,774.00

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0469	601E32000	192.00	CY	\$75.00000	\$14,400.00
	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER				

Total for Group 0015: \$14,400.00

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<b>MAJOR COST DRIVERS, EROSION CONTROL</b>					
0470	832E10000	1.00	LS	\$50,000.00000	\$50,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0471	832E20000	300,000.00	EACH	\$1.00000	\$300,000.00
EROSION CONTROL					

Total for Group 0016: \$350,000.00

**Group 0017: Other Erosion Control Costs**

0049	670E00700	0.00	SY		\$0.00
DITCH EROSION PROTECTION					
0050	B-OC-ERCO	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, EROSION CONTROL					
0051	659E00100	0.00	EACH	\$0.00000	\$0.00
SOIL ANALYSIS TEST					
0052	659E00300	0.00	CY		\$0.00
TOPSOIL					
0053	659E14000	0.00	SY		\$0.00
REPAIR SEEDING AND MULCHING					
0054	659E15000	0.00	SY	\$0.71000	\$0.00
INTER-SEEDING					
0055	659E20000	0.00	TON		\$0.00
COMMERCIAL FERTILIZER					
0056	659E31000	0.00	ACRE	\$0.00000	\$0.00
LIME					
0057	659E35000	0.00	MGAL	\$5.00000	\$0.00
WATER					
0058	659E40000	0.00	MSF	\$0.00000	\$0.00
MOWING					

Total for Group 0017: \$0.00

**Group 0018: Underdrains**

0059	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0062	605E05100	29,635.00	FT	\$8.00000	\$237,080.00
4" SHALLOW PIPE UNDERDRAINS					

Total for Group 0018: \$237,080.00

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0480	C-MC-DRNG	86.00	FT	\$350.00000	\$30,100.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>					
0481	C-MC-DRNG	2.00	EACH	\$1,500.00000	\$3,000.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0019: \$33,100.00

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0476	C-MC-DRNG	36.00	FT	\$550.00000	\$19,800.00
MAJOR COST DRIVERS, DRAINAGE					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"*

0477	C-MC-DRNG	1.00	EACH	\$2,000.00000	\$2,000.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete - Headwalls/wingwalls</i>					

Total for Group 0021: \$21,800.00

**Group 0022: Culverts, Type A: 10' - 20'**

0486	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0487	C-MC-DRNG	0.00	FT	\$1,400.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>					

0488	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0022: \$0.00

**Group 0024: BMP's**

0076	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

Total for Group 0024: \$0.00

**Group 0025: Closed Storm System**

0077	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0489	603E13400	11,994.00	FT	\$75.00000	\$899,550.00
30" CONDUIT, TYPE B (Average size)					

0523	604E00800	84.00	EACH	\$1,500.00000	\$126,000.00
CATCH BASIN, NO. 3A					

0524	604E31500	20.00	EACH	\$3,000.00000	\$60,000.00
MANHOLE, NO. 3					

0525	604E36601	13.00	EACH	\$1,250.00000	\$16,250.00
PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN					

0526	Special	0.00	LS	\$6,400,000.00000	\$0.00
Pump Station (Storm)					

0527	Special	0.00	EACH	\$5,750.00000	\$0.00
Stormceptors					

0529	Special	0.00	LS	\$109,000.00000	\$0.00
Retention basin improvements					

Total for Group 0025: \$1,101,800.00

**Group 0026: Other Drainage Costs**

0078	C-OC-DRNG	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, DRAINAGE					

Total for Group 0026: \$0.00

**Group 0027: Mainline - Travel Lanes**

0095	D-MC-PVMT	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT					

0494	D-MC-PVMT	171,479.00	SY	\$68.00000	\$11,660,572.00
13" Reinforced Concrete Pavement					
<i>Includes 6" Agg Base and Subgrade Compaction</i>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0027: \$11,660,572.00

**Group 0028: Mainline - Outside Shoulder**

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	38,883.00	SY	\$68.00000	\$2,644,044.00

Total for Group 0028: \$2,644,044.00

**Group 0030: Mainline - Inside Shoulder**

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	38,377.00	SY	\$68.00000	\$2,609,636.00

Total for Group 0030: \$2,609,636.00

**Group 0031: Non - Mainline Lanes**

0532	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0533	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	3,441.00	SY	\$41.00000	\$141,081.00

Total for Group 0031: \$141,081.00

**Group 0036: Ramps (including shoulders)**

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	46,310.00	SY	\$68.00000	\$3,149,080.00

Total for Group 0036: \$3,149,080.00

**Group 0041: Other Pavement Costs**

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

**Group 0042: Water Works**

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

**Group 0043: Sanitary Line**

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0043: \$0.00

Group 0044: Lighting - Full Interchange

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	2.00	EACH	\$469,000.00000	\$938,000.00

Total for Group 0044: \$938,000.00

Group 0045: Lighting - Partial Interchange

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

Group 0046: Lighting - Continuous Roadway

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	13,415.00	FT	\$35.00000	\$469,525.00

Total for Group 0046: \$469,525.00

Group 0047: Other Lighting Costs

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

Group 0048: Traffic Surveillance

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	1.00	LS	\$537,486.54000	\$537,486.54
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Total for Group 0048: \$537,486.54

Group 0049: Signs

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	2.54	MILE	\$250,000.00000	\$635,000.00

Total for Group 0049: \$635,000.00

Group 0050: Pavement Marking

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	18.30	MILE	\$3,000.00000	\$54,900.00
0503	644E00200 LANE LINE	17.93	MILE	\$2,000.00000	\$35,860.00

Total for Group 0050: \$90,760.00

Group 0051: Other Traffic Control Costs



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
Total for Group 0051:					\$0.00
<b>Group 0052: Signals - Intersections</b>					
0212	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS	1.00	LS	\$0.00000	\$0.00
Total for Group 0052:					\$0.00
<b>Group 0053: Other Traffic Signal Costs</b>					
0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
Total for Group 0053:					\$0.00
<b>Group 0054: Landscaping</b>					
0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
Total for Group 0054:					\$0.00
<b>Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing</b>					
0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
0504	M-MC-WALL Retaining Walls	8,870.00	SF	\$135.00000	\$1,197,450.00
Total for Group 0055:					\$1,197,450.00
<b>Group 0056: Other Retaining Wall Costs</b>					
0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
Total for Group 0056:					\$0.00
<b>Group 0057: Building Demolition</b>					
0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
0534	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Residential</i>	3.00	EACH	\$7,500.00000	\$22,500.00
0535	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Residential</i>	2.00	EACH	\$12,000.00000	\$24,000.00
0536	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	0.00	EACH	\$15,000.00000	\$0.00
0537	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Commercial</i>	1.00	EACH	\$30,000.00000	\$30,000.00
0538	202E98100	0.00	EACH	\$8,500.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

REMOVAL MISC.:  
Radio Tower

Total for Group 0057: \$76,500.00

**Group 0058: Noise Barrier**

0220	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0505	P-MC-NSBR Noise Barrier	58,304.00	SF	\$25.00000	\$1,457,600.00

Total for Group 0058: \$1,457,600.00

**Group 0059: Other Noise Barrier Costs**

0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00

Total for Group 0059: \$0.00

**Group 0060: New Structures**

0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	77,961.00	SF	\$125.00000	\$9,745,125.00
0507	R-MC-STRC Removal of Existing Structures non-complex	0.00	SF	\$12.00000	\$0.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	51,915.00	SF	\$17.00000	\$882,555.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	0.00	SF	\$30.00000	\$0.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	0.00	SF	\$150.00000	\$0.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	0.00	SF	\$200.00000	\$0.00

Total for Group 0060: \$10,627,680.00

**Group 0061: Rehabilitated Structures**

0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	0.00	SF	\$45.00000	\$0.00
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Total for Group 0061: \$0.00

**Group 0062: Other Structure Costs**

0224	R-OC-STRC OTHER COSTS, STRUCTURES Contingency	0.00	LS	\$0.00000	\$0.00
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Total for Group 0062: \$0.00

**Group 0063: Temporary Road and Pavement Costs**

0225	S-MC-MNTC MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
Total for Group 0063:					\$0.00
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0064:					\$0.00
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0065:					\$0.00
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0066:					\$0.00
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0067:					\$0.00
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0068:					\$0.00
<b>Group 0069: Innovative Contracting Incentatives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0069:					\$0.00
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	2.54	MILE	\$500,000.00000	\$1,270,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
Total for Group 0070:					\$1,270,000.00
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
Total for Group 0071:					\$0.00
<b>Group 0072: Misc. Costs</b>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b><u>Supplemental Description</u></b>				
0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	0.00	LS	\$10,000.00000	\$0.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$271,430.70000	\$271,430.70
0239	614E11000 MAINTAINING TRAFFIC 2%	1.00	LS	\$1,085,722.80000	\$1,085,722.80
0240	619E16020 FIELD OFFICE, TYPE C	44.00	MNTH	\$2,500.00000	\$110,000.00
0242	624E10000 MOBILIZATION	1.00	LS	\$1,200,000.00000	\$1,200,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$271,430.70000	\$271,430.70
0518		0.00		\$0.00000	\$0.00
0519		0.00		\$0.00000	\$0.00
0520		0.00		\$0.00000	\$0.00
0521		0.00		\$0.00000	\$0.00

Total for Group 0072: \$2,938,584.20

Group 0073: Design Contingency Costs

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS 25%	1.00	LS	\$14,306,181.06000	\$14,306,181.06

Total for Group 0073: \$14,306,181.06

Group 0074: Inflation Contingency

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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Total for Group 0074: \$0.00

Macro View

										Attributes						
Acquisition	Unit (SF) or (Acreage)	X	Cost/Unit (\$\$/SF) (\$\$/Acre)	Subtotal Land Value	+	Structure Values (if Taken)	+	Damages (Loss in Value to the Residue)	=	Subtotal Structures & Damages	=	Total Non Labor Acquisition Costs	Parcel Count	Total Takes	Partial Takes	No. of Structures Impacted
-Residential	3.31	X	\$82,451.65	\$272,750	+	855500	+	N/A	=	\$855,500.00	=	\$1,128,250.05	17	6	11	5
-Commercial	6.68	X	\$147,451.64	\$985,065	+	1135000	+	N/A	=	\$1,135,000.00	=	\$2,120,065.42	19	1	18	1
-Industrial	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	=	\$0.00	0	0	0	0
-Agricultural	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	=	\$0.00	0	0	0	0
Relocation	Unit (Displacement)	X	*RHP/*RSP		+	Move Cost	+	Reestablishment	=	Total Non Labor RAP Costs	Estimate amount of time necessary to relocate all RAP parcels = (months) 24					
-Residential Owner Occupant	3	X	\$34,000		+	\$6,000			=	\$120,000	Estimate number of years until project wide R/W acquisition begins = 3.5					
-Residential Tenant	14	X	\$10,000		+	\$1,750			=	\$164,500						
-Commerical/Farm/NPO Owner	1				X	\$15,000	+	\$10,000	=	\$25,000						
-Commerical/Farm/NPO Tenant	1				X	\$15,000	+	\$10,000	=	\$25,000						
-Personal Property	0				X	\$1,000			=	\$0						
$\{((\text{Total Cost of Acquisition Cost}) \times 0.90) \times 0.025\} + \{((\text{Total of Acquisition Cost}) \times 0.15) \times 1.20\} + \{((\text{Total of Acquisition Cost}) \times 0.10) \times 1.50\} = \text{Contingency}$									Contingency (Incidentals, Admin. Review & Appropriation)		1145031.203		*RHP - Replacement Housing Payment *RSP - Rent Supplemental Payment *NPO - Non-Profit Organization			
										<b>Total Non Labor R/W Costs</b>		<b>\$4,727,846.67</b>				

**Instruction for Acquisition & Relocation Cost Estimates**

Estimate the total number of acres involved in the project and allocate those acres into the four categories shown.

Assign an average unit price for each category. These unit prices are typically taken from the auditors tax card data. Cost Estimates prepared at Step 4 (Step 7 on Major Projects) and thereafter must base unit prices on a project sales data book instead of tax card data.

Add structure values from the auditors tax cards only if the structures are taken.

Damages must be assessed by a pre-qualified expert with experience in Before & After analysis. This usually occurs at Step 4 for Minor projects (Step 6 on Major Projects) and requires some knowledge of the impacts of the project on structures.

Relocation Cost Estimates must consider the complexity of the move process. All move estimates that involve a business or a multi-tenant residential structure should use the services of a relocation Assistance professional to accurately gauge costs.

Macro View

Labor (External)	Unit (Parcels)	X	Unit Price	=	Total Cost
Titles	36	X	\$400	=	\$14,400
Appraisal -Simple	12	X	\$750	=	\$9,000
Appraisal -Detailed	24	X	\$4,500	=	\$108,000
Appraisal Review -Simple	12	X	\$500	=	\$6,000
Appraisal Review -Detailed	24	X	\$2,000	=	\$48,000
Negotiations	36	X	\$1,100	=	\$39,600
Relocations -Personal Property	0	X	\$1,500	=	\$0
Relocations -Residential	17	X	\$5,200	=	\$88,400
Relocations -Commercial/Farm/*NPO	1	X	\$5,600	=	\$5,600
Closings	36	X	\$400	=	\$14,400
Project Management	36	X	\$550	=	\$19,800
Asbestos Testing & Abatement		X		=	
<b>Total Labor Costs</b>					<b>\$353,200</b>

\*NPO = Non-Profit Organization

This R/W Cost Estimate Prepared by	Date
Joseph Kuehnle	2/15/2011
This R/W Cost Estimate was performed at Step 6 of the PDP for MAJOR Projects using	

<b>Total Labor Costs</b>	\$353,200.00
<b>Total Non Labor R/W Costs</b>	\$4,727,846.67
<b>Inflation Adjustments</b>	\$416,645.83
<b>Total R/W Costs</b>	<b>\$5,497,692.50</b>

**Instructions for Labor Cost Estimates**

Labor costs are a function of time, distance, and talent. Labor costs estimates should reflect the complexity of the project and the talent necessary to acquire the right of way in a timely manner. The person making the cost estimate may adjust the figures given for the particular project being estimated to reflect local labor costs. It is critical that the estimate be labeled to reflect the alignment alternative, the step in the PDP process and the person(s) performing the estimate.

**Comments**

Cost/Unit were generated from auditors tax card data.

**P.D.P. R/W Cost Estimator**

## Estimate Alt I KY cont 6

Estimated Cost: \$33,202,743.20

Contingency: 53.80%

**Estimated Total: \$51,065,819.04**

Base Date: 01/01/15

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District:

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	52,245.00	SY	\$8.00000	\$417,960.00

Total for Group 0001: \$417,960.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	331,350.00	CY	\$30.00000	\$9,940,500.00
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Total for Group 0002: \$9,940,500.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	331,350.00	CY	\$8.00000	\$2,650,800.00

Total for Group 0003: \$2,650,800.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	662,700.00	CY	\$6.00000	\$3,976,200.00

Total for Group 0005: \$3,976,200.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$8.00000	\$0.00
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Total for Group 0007: \$0.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	3,600.00	FT	\$110.00000	\$396,000.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<u>Description</u>				
	<u>Supplemental Description</u>				

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$396,000.00

## Group 0009: Subgrade Treatment - Lime

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

## Group 0010: Subgrade Treatment - Cement

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	81,883.00	SY	\$2.50000	\$204,707.50
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Total for Group 0010: \$204,707.50

## Group 0011: Subgrade Treatment - Undercut &amp; Backfill

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

## Group 0012: Other Roadway Costs

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0028	202E35200 PIPE REMOVED, OVER 24"	0.00	FT		\$0.00
0029	202E38000 GUARDRAIL REMOVED	0.00	FT		\$0.00
0030	202E42206 ANCHOR ASSEMBLY REMOVED	0.00	EACH		\$0.00
0031	202E58000 MANHOLE REMOVED	0.00	EACH		\$0.00
0032	202E58100 CATCH BASIN REMOVED	0.00	EACH		\$0.00
0033	202E75000 FENCE REMOVED	0.00	FT		\$0.00
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>PROOF ROLLING</b>				
0035	204E10000	0.00	SY	\$0.81000	\$0.00
	SUBGRADE COMPACTION				
0036	451E30000	0.00	FT		\$0.00
	SPECIAL - PRESSURE RELIEF JOINT, TYPE A				
0037	606E13000	1,250.00	FT	\$14.00000	\$17,500.00
	GUARDRAIL, TYPE 5				
0038	606E22000	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE B-98				
0039	606E22010	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE E-98				
0040	606E26500	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE T				
0041	606E35000	0.00	EACH		\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 1				
0042	606E35100	0.00	EACH		\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 2				
0043	606E60010	0.00	EACH		\$0.00
	IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)				
0044	607E15000	0.00	FT		\$0.00
	FENCE, TYPE 47				
	<i>For Fencing</i>				
0423	304E20000	0.00	CY		\$0.00
	AGGREGATE BASE				
	<i>For Fencing</i>				
0424	601E32100	0.00	CY		\$0.00
	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER				
	<i>For Fencing</i>				
0425	607E40500	0.00	EACH		\$0.00
	GATE, TYPE 47				
	<i>For Fencing</i>				
0426	625E32000	0.00	EACH		\$0.00
	GROUND ROD				
	<i>For Fencing</i>				
0466		0.00		\$0.00000	\$0.00

Total for Group 0012: \$17,500.00

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0467	659E10000	67,695.00	SY	\$1.00000	\$67,695.00
	SEEDING AND MULCHING				
0531	660E25000	0.00	SY	\$15.00000	\$0.00
	SODDING STAKED				

Total for Group 0014: \$67,695.00

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0469	601E32000	12.00	CY	\$75.00000	\$900.00
	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER				

Total for Group 0015: \$900.00

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>MAJOR COST DRIVERS, EROSION CONTROL</b>				
0470	832E10000	1.00	LS	\$50,000.00000	\$50,000.00
	STORM WATER POLLUTION PREVENTION PLAN				
0471	832E20000	300,000.00	EACH	\$1.00000	\$300,000.00
	EROSION CONTROL				

Total for Group 0016: \$350,000.00

**Group 0017: Other Erosion Control Costs**

0049	670E00700	0.00	SY		\$0.00
	DITCH EROSION PROTECTION				
0050	B-OC-ERCO	1.00	LS	\$0.00000	\$0.00
	OTHER COSTS, EROSION CONTROL				
0051	659E00100	0.00	EACH	\$0.00000	\$0.00
	SOIL ANALYSIS TEST				
0052	659E00300	0.00	CY		\$0.00
	TOPSOIL				
0053	659E14000	0.00	SY		\$0.00
	REPAIR SEEDING AND MULCHING				
0054	659E15000	0.00	SY	\$0.71000	\$0.00
	INTER-SEEDING				
0055	659E20000	0.00	TON		\$0.00
	COMMERCIAL FERTILIZER				
0056	659E31000	0.00	ACRE	\$0.00000	\$0.00
	LIME				
0057	659E35000	0.00	MGAL	\$5.00000	\$0.00
	WATER				
0058	659E40000	0.00	MSF	\$0.00000	\$0.00
	MOWING				

Total for Group 0017: \$0.00

**Group 0018: Underdrains**

0059	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, DRAINAGE				
0062	605E05100	10,850.00	FT	\$8.00000	\$86,800.00
	4" SHALLOW PIPE UNDERDRAINS				

Total for Group 0018: \$86,800.00

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG	0.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, DRAINAGE				
0480	C-MC-DRNG	37.00	FT	\$350.00000	\$12,950.00
	MAJOR COST DRIVERS, DRAINAGE				
	<i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>				
0481	C-MC-DRNG	1.00	EACH	\$1,500.00000	\$1,500.00
	MAJOR COST DRIVERS, DRAINAGE				
	<i>Concrete Masonry</i>				

Total for Group 0019: \$14,450.00

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, DRAINAGE				
0476	C-MC-DRNG	0.00	FT	\$550.00000	\$0.00
	MAJOR COST DRIVERS, DRAINAGE				

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"*

0477	C-MC-DRNG	0.00	EACH	\$2,000.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete - Headwalls/wingwalls</i>					

Total for Group 0021: \$0.00

**Group 0022: Culverts, Type A: 10' - 20'**

0486	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0487	C-MC-DRNG	0.00	FT	\$1,400.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>					

0488	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0022: \$0.00

**Group 0024: BMP's**

0076	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

Total for Group 0024: \$0.00

**Group 0025: Closed Storm System**

0077	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0489	603E13400	3,608.00	FT	\$75.00000	\$270,600.00
30" CONDUIT, TYPE B (Average size)					

0523	604E00800	14.00	EACH	\$1,500.00000	\$21,000.00
CATCH BASIN, NO. 3A					

0524	604E31500	1.00	EACH	\$3,000.00000	\$3,000.00
MANHOLE, NO. 3					

0525	604E36601	0.00	EACH	\$1,250.00000	\$0.00
PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN					

0526	Special	0.00	LS	\$6,400,000.00000	\$0.00
Pump Station (Storm)					

0527	Special	0.00	EACH	\$5,750.00000	\$0.00
Stormceptors					

0529	Special	0.00	LS	\$109,000.00000	\$0.00
Retention basin improvements					

Total for Group 0025: \$294,600.00

**Group 0026: Other Drainage Costs**

0078	C-OC-DRNG	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, DRAINAGE					

Total for Group 0026: \$0.00

**Group 0027: Mainline - Travel Lanes**

0095	D-MC-PVMT	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT					

0494	D-MC-PVMT	59,563.00	SY	\$68.00000	\$4,050,284.00
13" Reinforced Concrete Pavement					
<i>Includes 6" Agg Base and Subgrade Compaction</i>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0027: \$4,050,284.00

Group 0028: Mainline - Outside Shoulder

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	8,534.00	SY	\$68.00000	\$580,312.00

Total for Group 0028: \$580,312.00

Group 0030: Mainline - Inside Shoulder

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	11,410.00	SY	\$68.00000	\$775,880.00

Total for Group 0030: \$775,880.00

Group 0031: Ramps (including shoulders)

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	2,376.00	SY	\$68.00000	\$161,568.00

Total for Group 0031: \$161,568.00

Group 0032: Non - Mainline Lanes

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$41.00000	\$0.00

Total for Group 0032: \$0.00

Group 0041: Other Pavement Costs

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

Group 0042: Water Works

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

Group 0043: Sanitary Line

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0043: \$0.00

Group 0044: Lighting - Full Interchange

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	EACH	\$469,000.00000	\$0.00

Total for Group 0044: \$0.00

Group 0045: Lighting - Partial Interchange

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

Group 0046: Lighting - Continuous Roadway

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	3,600.00	FT	\$35.00000	\$126,000.00

Total for Group 0046: \$126,000.00

Group 0047: Other Lighting Costs

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

Group 0048: Traffic Surveillance

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	1.00	LS	\$246,872.97000	\$246,872.97
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Total for Group 0048: \$246,872.97

Group 0049: Signs

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	0.68	MILE	\$250,000.00000	\$170,000.00

Total for Group 0049: \$170,000.00

Group 0050: Pavement Marking

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	2.92	MILE	\$3,000.00000	\$8,760.00
0503	644E00200 LANE LINE	7.19	MILE	\$2,000.00000	\$14,380.00

Total for Group 0050: \$23,140.00

Group 0051: Other Traffic Control Costs

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
<b>Total for Group 0051: \$0.00</b>					
<b>Group 0052: Signals - Intersections</b>					
0212	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS	0.00	LS	\$175.00000	\$0.00
<b>Total for Group 0052: \$0.00</b>					
<b>Group 0053: Other Traffic Signal Costs</b>					
0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
<b>Total for Group 0053: \$0.00</b>					
<b>Group 0054: Landscaping</b>					
0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
<b>Total for Group 0054: \$0.00</b>					
<b>Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing</b>					
0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
0504	M-MC-WALL Retaining Walls	0.00	SF	\$135.00000	\$0.00
<b>Total for Group 0055: \$0.00</b>					
<b>Group 0056: Other Retaining Wall Costs</b>					
0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
<b>Total for Group 0056: \$0.00</b>					
<b>Group 0057: Building Demolition</b>					
0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
0532	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Commercial</i>	0.00	EACH	\$30,000.00000	\$0.00
0533	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	0.00	EACH	\$15,000.00000	\$0.00
0534	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Residential</i>	1.00	EACH	\$12,000.00000	\$12,000.00
0535	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Residential</i>	4.00	EACH	\$7,500.00000	\$30,000.00
0536	202E98100	0.00	EACH	\$8,500.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

REMOVAL MISC.:  
Radio Tower

Total for Group 0057: \$42,000.00

**Group 0058: Noise Barrier**

0220	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0505	P-MC-NSBR Noise Barrier	0.00	LS	\$400.00000	\$0.00

Total for Group 0058: \$0.00

**Group 0059: Other Noise Barrier Costs**

0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00

Total for Group 0059: \$0.00

**Group 0060: New Structures**

0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	0.00	SF	\$125.00000	\$0.00
0507	R-MC-STRC Removal of Existing Structures non-complex	0.00	SF	\$12.00000	\$0.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	0.00	SF	\$17.00000	\$0.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	0.00	SF	\$30.00000	\$0.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	0.00	SF	\$150.00000	\$0.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	0.00	SF	\$200.00000	\$0.00

Total for Group 0060: \$0.00

**Group 0061: Rehabilitated Structures**

0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	0.00	SF	\$45.00000	\$0.00
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Total for Group 0061: \$0.00

**Group 0062: Other Structure Costs**

0224	R-OC-STRC OTHER COSTS, STRUCTURES Contingency	0.00	LS	\$0.00000	\$0.00
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Total for Group 0062: \$0.00

**Group 0063: Temporary Road and Pavement Costs**

0225	S-MC-MNTC MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
Total for Group 0063:					\$0.00
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0064:					\$0.00
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0065:					\$0.00
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0066:					\$0.00
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0067:					\$0.00
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0068:					\$0.00
<b>Group 0069: Innovative Contracting Incentatives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0069:					\$0.00
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	0.68	MILE	\$500,000.00000	\$340,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
Total for Group 0070:					\$340,000.00
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
Total for Group 0071:					\$0.00
<b>Group 0072: Misc. Costs</b>					



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b><u>Supplemental Description</u></b>				
0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	0.00	LS	\$10,000.00000	\$0.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$124,670.85000	\$124,670.85
0239	614E11000 MAINTAINING TRAFFIC 2%	1.00	LS	\$498,683.39000	\$498,683.39
0240	619E16020 FIELD OFFICE, TYPE C	32.00	MNTH	\$2,500.00000	\$80,000.00
0242	624E10000 MOBILIZATION	1.00	LS	\$800,000.00000	\$800,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$124,670.85000	\$124,670.85
0518		0.00		\$0.00000	\$0.00
0519		0.00		\$0.00000	\$0.00
0520		0.00		\$0.00000	\$0.00
0521		0.00		\$0.00000	\$0.00
<b>Total for Group 0072:</b>					<b>\$1,628,025.09</b>

**Group 0073: Design Contingency Costs**

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS 25%	1.00	LS	\$6,640,548.64000	\$6,640,548.64

**Total for Group 0073: \$6,640,548.64**

**Group 0074: Inflation Contingency**

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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**Total for Group 0074: \$0.00**

Macro View

Macro View										Attributes						
Acquisition	Unit (SF) or (Acreage)	X	Cost/Unit (\$\$/SF) (\$\$/Acre)	Subtotal Land Value	+	Structure Values (if Taken)	+	Damages (Loss in Value to the Residue)	=	Subtotal Structures & Damages	=	Total Non Labor Acquisition Costs	Parcel Count	Total Takes	Partial Takes	No. of Structures Impacted
-Residential	3.37	X	\$96,480.75	\$325,140	+	2085000	+	N/A	=	\$2,085,000.00	=	\$2,410,140.13	8	4	4	5
-Commercial	0.41	X	\$4,950.50	\$2,030	+	0	+	N/A	=	\$0.00	=	\$2,029.71	1	0	1	0
-Industrial	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	=	\$0.00	0	0	0	0
-Agricultural	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	=	\$0.00	0	0	0	0
Relocation	Unit (Displacement)	X	*RHP/*RSP		+	Move Cost	+	Reestablishment	=	Total Non Labor RAP Costs	Estimate amount of time necessary to relocate all RAP parcels = (months) 24					
-Residential Owner Occupant	5	X	\$34,000		+	\$6,000			=	\$200,000	Estimate number of years until project wide R/W acquisition begins = 3.5					
-Residential Tenant	18	X	\$10,000		+	\$1,750			=	\$211,500						
-Commerical/Farm/NPO Owner	0				X	\$15,000	+	\$10,000	=	\$0						
-Commerical/Farm/NPO Tenant	0				X	\$15,000	+	\$10,000	=	\$0						
-Personal Property	0				X	\$1,000			=	\$0						
$\{((\text{Total Cost of Acquisition Cost}) \times 0.90) \times 0.025\} + \{((\text{Total of Acquisition Cost}) \times 0.15) \times 1.20\} + \{((\text{Total of Acquisition Cost}) \times 0.10) \times 1.50\} = \text{Contingency}$									Contingency (Incidentals, Admin. Review & Appropriation)		850289.866	*RHP - Replacement Housing Payment *RSP - Rent Supplemental Payment *NPO - Non-Profit Organization				
										<b>Total Non Labor R/W Costs</b>		\$3,673,959.70				

**Instruction for Acquisition & Relocation Cost Estimates**

Estimate the total number of acres involved in the project and allocate those acres into the four categories shown.

Assign an average unit price for each category. These unit prices are typically taken from the auditors tax card data. Cost Estimates prepared at Step 4 (Step 7 on Major Projects) and thereafter must base unit prices on a project sales data book instead of tax card data.

Add structure values from the auditors tax cards only if the structures are taken.

Damages must be assessed by a pre-qualified expert with experience in Before & After analysis. This usually occurs at Step 4 for Minor projects (Step 6 on Major Projects) and requires some knowledge of the impacts of the project on structures.

Relocation Cost Estimates must consider the complexity of the move process. All move estimates that involve a business or a multi-tenant residential structure should use the services of a relocation Assistance professional to accurately gauge costs.

Macro View

Labor (External)	Unit (Parcels)	X	Unit Price	=	Total Cost
Titles	9	X	\$400	=	\$3,600
Appraisal -Simple	4	X	\$750	=	\$3,000
Appraisal -Detailed	5	X	\$4,500	=	\$22,500
Appraisal Review -Simple	4	X	\$500	=	\$2,000
Appraisal Review -Detailed	5	X	\$2,000	=	\$10,000
Negotiations	9	X	\$1,100	=	\$9,900
Relocations -Personal Property	0	X	\$1,500	=	\$0
Relocations -Residential	23	X	\$5,200	=	\$119,600
Relocations -Commercial/Farm/*NPO	0	X	\$5,600	=	\$0
Closings	23	X	\$400	=	\$9,200
Project Management	23	X	\$550	=	\$12,650
Asbestos Testing & Abatement		X		=	
<b>Total Labor Costs</b>					\$192,450

\*NPO = Non-Profit Organization

This R/W Cost Estimate Prepared by	Date
Chris Clemons	8/4/2010
This R/W Cost Estimate was performed at Step 6 of the PDP for MAJOR Projects using	

<b>Total Labor Costs</b>	\$192,450.00
<b>Total Non Labor R/W Costs</b>	\$3,673,959.70
<b>Inflation Adjustments</b>	\$317,045.60
<b>Total R/W Costs</b>	<b>\$4,183,455.30</b>

**Instructions for Labor Cost Estimates**

Labor costs are a function of time, distance, and talent. Labor costs estimates should reflect the complexity of the project and the talent necessary to acquire the right of way in a timely manner. The person making the cost estimate may adjust the figures given for the particular project being estimated to reflect local labor costs. It is critical that the estimate be labeled to reflect the alignment alternative, the step in the PDP process and the person(s) performing the estimate.

**Comments**

Cost/Unit were generated from auditors tax card data.

**P.D.P. R/W Cost Estimator**

## Estimate Alt I KY cont 7

Estimated Cost: \$242,532,360.08

Contingency: 57.60%

**Estimated Total: \$382,230,999.49**

Base Date: 01/01/15

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District:

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	130,262.00	SY	\$8.00000	\$1,042,096.00

Total for Group 0001: \$1,042,096.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	113,800.00	CY	\$30.00000	\$3,414,000.00
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Total for Group 0002: \$3,414,000.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	170,700.00	CY	\$8.00000	\$1,365,600.00

Total for Group 0003: \$1,365,600.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	284,500.00	CY	\$6.00000	\$1,707,000.00

Total for Group 0005: \$1,707,000.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$8.00000	\$0.00
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Total for Group 0007: \$0.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	8,000.00	FT	\$110.00000	\$880,000.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$880,000.00

**Group 0009: Subgrade Treatment - Lime**

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

**Group 0010: Subgrade Treatment - Cement**

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	158,488.00	SY	\$2.50000	\$396,220.00
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Total for Group 0010: \$396,220.00

**Group 0011: Subgrade Treatment - Undercut & Backfill**

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

**Group 0012: Other Roadway Costs**

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0028	202E35200 PIPE REMOVED, OVER 24"	0.00	FT		\$0.00
0029	202E38000 GUARDRAIL REMOVED	0.00	FT		\$0.00
0030	202E42206 ANCHOR ASSEMBLY REMOVED	0.00	EACH		\$0.00
0031	202E58000 MANHOLE REMOVED	0.00	EACH		\$0.00
0032	202E58100 CATCH BASIN REMOVED	0.00	EACH		\$0.00
0033	202E75000 FENCE REMOVED	0.00	FT		\$0.00
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>PROOF ROLLING</b>				
0035	204E10000	0.00	SY	\$0.81000	\$0.00
	SUBGRADE COMPACTION				
0036	451E30000	0.00	FT		\$0.00
	SPECIAL - PRESSURE RELIEF JOINT, TYPE A				
0037	606E13000	1,750.00	FT	\$14.00000	\$24,500.00
	GUARDRAIL, TYPE 5				
0038	606E22000	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE B-98				
0039	606E22010	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE E-98				
0040	606E26500	0.00	EACH		\$0.00
	ANCHOR ASSEMBLY, TYPE T				
0041	606E35000	0.00	EACH		\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 1				
0042	606E35100	0.00	EACH		\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 2				
0043	606E60010	0.00	EACH		\$0.00
	IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)				
0044	607E15000	0.00	FT		\$0.00
	FENCE, TYPE 47				
	<i>For Fencing</i>				
0423	304E20000	0.00	CY		\$0.00
	AGGREGATE BASE				
	<i>For Fencing</i>				
0424	601E32100	0.00	CY		\$0.00
	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER				
	<i>For Fencing</i>				
0425	607E40500	0.00	EACH		\$0.00
	GATE, TYPE 47				
	<i>For Fencing</i>				
0426	625E32000	0.00	EACH		\$0.00
	GROUND ROD				
	<i>For Fencing</i>				
0466		0.00		\$0.00000	\$0.00

Total for Group 0012: \$24,500.00

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0467	659E10000	47,213.00	SY	\$1.00000	\$47,213.00
	SEEDING AND MULCHING				
0531	660E25000	0.00	SY	\$15.00000	\$0.00
	SODDING STAKED				

Total for Group 0014: \$47,213.00

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0469	601E32000	12.00	CY	\$75.00000	\$900.00
	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER				

Total for Group 0015: \$900.00

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<b>MAJOR COST DRIVERS, EROSION CONTROL</b>					
0470	832E10000	1.00	LS	\$50,000.00000	\$50,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0471	832E20000	170,000.00	EACH	\$1.00000	\$170,000.00
EROSION CONTROL					

Total for Group 0016: \$220,000.00

**Group 0017: Other Erosion Control Costs**

0049	670E00700	0.00	SY		\$0.00
DITCH EROSION PROTECTION					
0050	B-OC-ERCO	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, EROSION CONTROL					
0051	659E00100	0.00	EACH	\$0.00000	\$0.00
SOIL ANALYSIS TEST					
0052	659E00300	0.00	CY		\$0.00
TOPSOIL					
0053	659E14000	0.00	SY		\$0.00
REPAIR SEEDING AND MULCHING					
0054	659E15000	0.00	SY	\$0.71000	\$0.00
INTER-SEEDING					
0055	659E20000	0.00	TON		\$0.00
COMMERCIAL FERTILIZER					
0056	659E31000	0.00	ACRE	\$0.00000	\$0.00
LIME					
0057	659E35000	0.00	MGAL	\$5.00000	\$0.00
WATER					
0058	659E40000	0.00	MSF	\$0.00000	\$0.00
MOWING					

Total for Group 0017: \$0.00

**Group 0018: Underdrains**

0059	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0062	605E05100	11,925.00	FT	\$8.00000	\$95,400.00
4" SHALLOW PIPE UNDERDRAINS					

Total for Group 0018: \$95,400.00

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0480	C-MC-DRNG	0.00	FT	\$350.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>					
0481	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0019: \$0.00

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0476	C-MC-DRNG	0.00	FT	\$550.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"*

0477	C-MC-DRNG	0.00	EACH	\$2,000.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete - Headwalls/wingwalls</i>					

Total for Group 0021: \$0.00

**Group 0022: Culverts, Type A: 10' - 20'**

0486	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0487	C-MC-DRNG	0.00	FT	\$1,400.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>					

0488	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0022: \$0.00

**Group 0024: BMP's**

0076	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

Total for Group 0024: \$0.00

**Group 0025: Closed Storm System**

0077	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0489	603E13400	21,838.00	FT	\$75.00000	\$1,637,850.00
30" CONDUIT, TYPE B (Average size)					

0523	604E00800	98.00	EACH	\$1,500.00000	\$147,000.00
CATCH BASIN, NO. 3A					

0524	604E31500	31.00	EACH	\$3,000.00000	\$93,000.00
MANHOLE, NO. 3					

0525	604E36601	1.00	EACH	\$1,250.00000	\$1,250.00
PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN					

0526	Special	1.00	LS	\$6,400,000.00000	\$6,400,000.00
Pump Station (Storm)					

0527	Special	6.00	EACH	\$5,750.00000	\$34,500.00
Stormceptors					

0529	Special	1.00	LS	\$109,000.00000	\$109,000.00
Retention basin improvements					

Total for Group 0025: \$8,422,600.00

**Group 0026: Other Drainage Costs**

0078	C-OC-DRNG	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, DRAINAGE					

Total for Group 0026: \$0.00

**Group 0027: Mainline - Travel Lanes**

0095	D-MC-PVMT	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT					

0494	D-MC-PVMT	61,360.00	SY	\$68.00000	\$4,172,480.00
13" Reinforced Concrete Pavement					
<i>Includes 6" Agg Base and Subgrade Compaction</i>					



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0027: \$4,172,480.00

**Group 0028: Mainline - Outside Shoulder**

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	17,902.00	SY	\$68.00000	\$1,217,336.00

Total for Group 0028: \$1,217,336.00

**Group 0030: Mainline - Inside Shoulder**

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	12,396.00	SY	\$68.00000	\$842,928.00

Total for Group 0030: \$842,928.00

**Group 0031: Ramps (including shoulders)**

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	15,551.00	SY	\$68.00000	\$1,057,468.00

Total for Group 0031: \$1,057,468.00

**Group 0032: Non - Mainline Lanes**

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	51,279.00	SY	\$41.00000	\$2,102,439.00

Total for Group 0032: \$2,102,439.00

**Group 0041: Other Pavement Costs**

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

**Group 0042: Water Works**

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

**Group 0043: Sanitary Line**

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0043: \$0.00

**Group 0044: Lighting - Full Interchange**

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	2.00	EACH	\$469,000.00000	\$938,000.00

Total for Group 0044: \$938,000.00

**Group 0045: Lighting - Partial Interchange**

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

**Group 0046: Lighting - Continuous Roadway**

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	6,195.00	FT	\$35.00000	\$216,825.00

Total for Group 0046: \$216,825.00

**Group 0047: Other Lighting Costs**

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

**Group 0048: Traffic Surveillance**

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	1.00	LS	\$1,844,812.92000	\$1,844,812.92
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Total for Group 0048: \$1,844,812.92

**Group 0049: Signs**

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	1.17	MILE	\$250,000.00000	\$292,500.00

Total for Group 0049: \$292,500.00

**Group 0050: Pavement Marking**

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	18.92	MILE	\$3,000.00000	\$56,760.00
0503	644E00200 LANE LINE	13.77	MILE	\$2,000.00000	\$27,540.00

Total for Group 0050: \$84,300.00

**Group 0051: Other Traffic Control Costs**

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00

Total for Group 0051: \$0.00

Group 0052: Signals - Intersections

0212	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS	7.00	LS	\$175,000.00000	\$1,225,000.00
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Total for Group 0052: \$1,225,000.00

Group 0053: Other Traffic Signal Costs

0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0053: \$0.00

Group 0054: Landscaping

0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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Total for Group 0054: \$0.00

Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing

0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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0504	M-MC-WALL Retaining Walls	118,825.00	SF	\$135.00000	\$16,041,375.00
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Total for Group 0055: \$16,041,375.00

Group 0056: Other Retaining Wall Costs

0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0056: \$0.00

Group 0057: Building Demolition

0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0532	202E98100 REMOVAL MISC.: <i>Radio Tower</i>	1.00	EACH	\$8,500.00000	\$8,500.00
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0533	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Commercial</i>	0.00	EACH	\$30,000.00000	\$0.00
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0534	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	7.00	EACH	\$15,000.00000	\$105,000.00
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0535	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Residential</i>	0.00	EACH	\$12,000.00000	\$0.00
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0536	202E56101	33.00	EACH	\$7,500.00000	\$247,500.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

BUILDING DEMOLISHED, AS PER PLAN  
*Small Residential*

Total for Group 0057: \$361,000.00

**Group 0058: Noise Barrier**

0220	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0505	P-MC-NSBR Noise Barrier	47,772.00	SF	\$25.00000	\$1,194,300.00

Total for Group 0058: \$1,194,300.00

**Group 0059: Other Noise Barrier Costs**

0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00

Total for Group 0059: \$0.00

**Group 0060: New Structures**

0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	315,174.00	SF	\$125.00000	\$39,396,750.00
0507	R-MC-STRC Removal of Existing Structures non-complex	4,744.00	SF	\$12.00000	\$56,928.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	175,222.00	SF	\$17.00000	\$2,978,774.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	113,347.00	SF	\$30.00000	\$3,400,410.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	372,133.00	SF	\$150.00000	\$55,819,950.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	174,410.00	SF	\$200.00000	\$34,882,000.00

Total for Group 0060: \$136,534,812.00

**Group 0061: Rehabilitated Structures**

0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	0.00	SF	\$45.00000	\$0.00
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Total for Group 0061: \$0.00

**Group 0062: Other Structure Costs**

0224	R-OC-STRC OTHER COSTS, STRUCTURES <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
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Total for Group 0062: \$0.00

**Group 0063: Temporary Road and Pavement Costs**

0225	S-MC-MNTC MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
Total for Group 0063:					\$0.00
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0064:					\$0.00
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0065:					\$0.00
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0066:					\$0.00
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0067:					\$0.00
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0068:					\$0.00
<b>Group 0069: Innovative Contracting Incentatives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0069:					\$0.00
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	1.17	MILE	\$500,000.00000	\$585,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
Total for Group 0070:					\$585,000.00
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
Total for Group 0071:					\$0.00
<b>Group 0072: Misc. Costs</b>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b><u>Supplemental Description</u></b>				
0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	0.00	LS	\$10,000.00000	\$0.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$931,630.52000	\$931,630.52
0239	614E11000 MAINTAINING TRAFFIC 2%	1.00	LS	\$3,726,522.10000	\$3,726,522.10
0240	619E16020 FIELD OFFICE, TYPE C	44.00	MNTH	\$2,500.00000	\$110,000.00
0242	624E10000 MOBILIZATION	1.00	LS	\$2,000,000.00000	\$2,000,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$931,630.52000	\$931,630.52
0518		0.00		\$0.00000	\$0.00
0519		0.00		\$0.00000	\$0.00
0520		0.00		\$0.00000	\$0.00
0521		0.00		\$0.00000	\$0.00

Total for Group 0072: \$7,699,783.14

Group 0073: Design Contingency Costs

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS 25%	1.00	LS	\$48,506,472.02000	\$48,506,472.02

Total for Group 0073: \$48,506,472.02

Group 0074: Inflation Contingency

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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Total for Group 0074: \$0.00

Macro View

Macro View										Attributes						
Acquisition	Unit (SF) or (Acreage)	X	Cost/Unit (\$\$/SF) (\$\$/Acre)	Subtotal Land Value	+	Structure Values (if Taken)	+	Damages (Loss in Value to the Residue)	=	Subtotal Structures & Damages	=	Total Non Labor Acquisition Costs	Parcel Count	Total Takes	Partial Takes	No. of Structures Impacted
-Residential	5.94	X	\$59,492.13	\$353,383	+	1102500	+	N/A	=	\$1,102,500.00	=	\$1,455,883.25	44	36	8	30
-Commercial	5.19	X	\$643,180.38	\$3,338,106	+	654000	+	N/A	=	\$654,000.00	=	\$3,992,106.17	24	8	16	5
-Industrial	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	=	\$0.00	0	0	0	0
-Other	0.34	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	=	\$0.00	1	1	0	1
Relocation	Unit (Displacement)	X	*RHP/*RSP	+	Move Cost	+	Reestablishment	=	Total Non Labor RAP Costs	Estimate amount of time necessary to relocate all RAP parcels = (months) 24						
-Residential Owner Occupant	24	X	\$34,000	+	\$6,000			=	\$960,000	Estimate number of years until project wide R/W acquisition begins = 3.5						
-Residential Tenant	30	X	\$10,000	+	\$1,750			=	\$352,500							
-Commerical/Farm/NPO Owner	2			X	\$15,000	+	\$10,000	=	\$50,000							
-Commerical/Farm/NPO Tenant	4			X	\$15,000	+	\$10,000	=	\$100,000							
-Personal Property	0			X	\$1,000			=	\$0							
$\{((\text{Total Cost of Acquisition Cost}) \times 0.90) \times 0.025\} + \{((\text{Total of Acquisition Cost}) \times 0.15) \times 1.20\} + \{((\text{Total of Acquisition Cost}) \times 0.10) \times 1.50\} = \text{Contingency}$									Contingency (Incidentals, Admin. Review & Appropriation)		1920416.272		*RHP - Replacement Housing Payment *RSP - Rent Supplemental Payment *NPO - Non-Profit Organization			
									<b>Total Non Labor R/W Costs</b>		<b>\$8,830,905.70</b>					

**Instruction for Acquisition & Relocation Cost Estimates**

Estimate the total number of acres involved in the project and allocate those acres into the four categories shown.

Assign an average unit price for each category. These unit prices are typically taken from the auditors tax card data. Cost Estimates prepared at Step 4 (Step 7 on Major Projects) and thereafter must base unit prices on a project sales data book instead of tax card data.

Add structure values from the auditors tax cards only if the structures are taken.

Damages must be assessed by a pre-qualified expert with experience in Before & After analysis. This usually occurs at Step 4 for Minor projects (Step 6 on Major Projects) and requires some knowledge of the impacts of the project on structures.

Relocation Cost Estimates must consider the complexity of the move process. All move estimates that involve a business or a multi-tenant residential structure should use the services of a relocation Assistance professional to accurately gauge costs.

Macro View

Labor (External)	Unit (Parcels)	X	Unit Price	=	Total Cost
Titles	69	X	\$400	=	\$27,600
Appraisal -Simple	5	X	\$750	=	\$3,750
Appraisal -Detailed	64	X	\$4,500	=	\$288,000
Appraisal Review -Simple	5	X	\$500	=	\$2,500
Appraisal Review -Detailed	64	X	\$2,000	=	\$128,000
Negotiations	69	X	\$1,100	=	\$75,900
Relocations -Personal Property	0	X	\$1,500	=	\$0
Relocations -Residential	54	X	\$5,200	=	\$280,800
Relocations -Commercial/Farm/*NPO	4	X	\$5,600	=	\$22,400
Closings	69	X	\$400	=	\$27,600
Project Management	69	X	\$550	=	\$37,950
Asbestos Testing & Abatement		X		=	
<b>Total Labor Costs</b>					<b>\$894,500</b>

\*NPO = Non-Profit Organization

This R/W Cost Estimate Prepared by	Date
Joseph Kuehnle	2/23/2011
This R/W Cost Estimate was performed at Step 6 of the PDP for MAJOR Projects using	

<b>Total Labor Costs</b>	\$894,500.00
<b>Total Non Labor R/W Costs</b>	\$8,830,905.70
<b>Inflation Adjustments</b>	\$797,483.27
<b>Total R/W Costs</b>	<b>\$10,522,888.97</b>

**Instructions for Labor Cost Estimates**

Labor costs are a function of time, distance, and talent. Labor costs estimates should reflect the complexity of the project and the talent necessary to acquire the right of way in a timely manner. The person making the cost estimate may adjust the figures given for the particular project being estimated to reflect local labor costs. It is critical that the estimate be labeled to reflect the alignment alternative, the step in the PDP process and the person(s) performing the estimate.

**Comments**

Cost/Unit were generated from auditors tax card data. Changed "Agriculture" category to "Other" to include Goebel Park and other properties that do not fit the main categories.

**P.D.P. R/W Cost Estimator**

## Estimate Alt I KY cont 8

Estimated Cost: \$40,553,981.01

Contingency: 65.50%

**Estimated Total: \$67,116,838.57**

Base Date: 01/01/15

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District:

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	0.00	SY	\$8.00000	\$0.00

Total for Group 0001: \$0.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$30.00000	\$0.00
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Total for Group 0002: \$0.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	0.00	CY	\$8.00000	\$0.00

Total for Group 0003: \$0.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	0.00	CY	\$6.00000	\$0.00

Total for Group 0005: \$0.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$8.00000	\$0.00
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Total for Group 0007: \$0.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	0.00	FT	\$110.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$0.00

**Group 0009: Subgrade Treatment - Lime**

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

**Group 0010: Subgrade Treatment - Cement**

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	SY	\$2.50000	\$0.00
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Total for Group 0010: \$0.00

**Group 0011: Subgrade Treatment - Undercut & Backfill**

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

**Group 0012: Other Roadway Costs**

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0034	204E45000 PROOF ROLLING	0.00	HOUR	\$126.59000	\$0.00
0035	204E10000 SUBGRADE COMPACTION	0.00	SY	\$0.81000	\$0.00
0037	606E13000 GUARDRAIL, TYPE 5	0.00	FT	\$14.00000	\$0.00
0466		0.00		\$0.00000	\$0.00

Total for Group 0012: \$0.00

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO MAJOR COST DRIVERS, EROSION CONTROL	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
0467	659E10000 SEEDING AND MULCHING	0.00	SY	\$1.00000	\$0.00
0531	660E25000 SODDING STAKED	0.00	SY	\$15.00000	\$0.00

Total for Group 0014: \$0.00

Group 0015: Rock Channel Protection

0047	B-MC-ERCO MAJOR COST DRIVERS, EROSION CONTROL	1.00	LS	\$0.00000	\$0.00
0469	601E32000 ROCK CHANNEL PROTECTION, TYPE A WITH FILTER	0.00	CY	\$75.00000	\$0.00

Total for Group 0015: \$0.00

Group 0016: Erosion Control - Item 832

0048	B-MC-ERCO MAJOR COST DRIVERS, EROSION CONTROL	1.00	LS	\$0.00000	\$0.00
0470	832E10000 STORM WATER POLLUTION PREVENTION PLAN	1.00	LS	\$20,000.00000	\$20,000.00
0471	832E20000 EROSION CONTROL	2,000.00	EACH	\$1.00000	\$2,000.00

Total for Group 0016: \$22,000.00

Group 0018: Underdrains

0059	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
0062	605E05100 4" SHALLOW PIPE UNDERDRAINS	0.00	FT	\$8.00000	\$0.00

Total for Group 0018: \$0.00

Group 0019: Culverts - Type A: < 5'

0474	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE	0.00	LS	\$0.00000	\$0.00
0480	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE <i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>	0.00	FT	\$350.00000	\$0.00
0481	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE <i>Concrete Masonry</i>	0.00	EACH	\$1,500.00000	\$0.00

Total for Group 0019: \$0.00

Group 0021: Culverts, Type A: 5' - 10'

0067	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
0476	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE <i>Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"</i>	0.00	FT	\$550.00000	\$0.00
0477	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE <i>Concrete - Headwalls/wingwalls</i>	0.00	EACH	\$1,500.00000	\$0.00

Total for Group 0021: \$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
<b>Group 0022: Culverts, Type A: 10' - 20'</b>					
0486	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
0487	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE <i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>	0.00	FT	\$1,400.00000	\$0.00
0488	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE <i>Concrete Masonry</i>	0.00	EACH	\$1,500.00000	\$0.00
<b>Total for Group 0022: \$0.00</b>					
<b>Group 0024: BMP's</b>					
0076	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
<b>Total for Group 0024: \$0.00</b>					
<b>Group 0025: Closed Storm System</b>					
0077	C-MC-DRNG MAJOR COST DRIVERS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
0489	603E13400 30" CONDUIT, TYPE B (Average size)	0.00	FT	\$75.00000	\$0.00
0523	604E00800 CATCH BASIN, NO. 3A	0.00	EACH	\$1,500.00000	\$0.00
0524	604E31500 MANHOLE, NO. 3	0.00	EACH	\$3,000.00000	\$0.00
0525	604E36601 PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN	0.00	EACH	\$0.00000	\$0.00
0526	Special Pump Station (Storm)	0.00	LS	\$6,400,000.00000	\$0.00
0527	Special Stormceptors	0.00	EACH	\$5,750.00000	\$0.00
0529	Special Retention basin improvements	0.00	LS	\$10,900.00000	\$0.00
<b>Total for Group 0025: \$0.00</b>					
<b>Group 0026: Other Drainage Costs</b>					
0078	C-OC-DRNG OTHER COSTS, DRAINAGE	1.00	LS	\$0.00000	\$0.00
<b>Total for Group 0026: \$0.00</b>					
<b>Group 0027: Mainline - Travel Lanes</b>					
0095	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0494	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg Base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00
<b>Total for Group 0027: \$0.00</b>					
<b>Group 0028: Mainline - Outside Shoulder</b>					
0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$59.00000	\$0.00
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Total for Group 0028: \$0.00

**Group 0030: Mainline - Inside Shoulder**

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$59.00000	\$0.00

Total for Group 0030: \$0.00

**Group 0031: Ramps (including shoulders)**

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0031: \$0.00

**Group 0032: Non - Mainline Lanes**

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$40.00000	\$0.00

Total for Group 0032: \$0.00

**Group 0041: Other Pavement Costs**

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

**Group 0042: Water Works**

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

**Group 0043: Sanitary Line**

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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Total for Group 0043: \$0.00

**Group 0044: Lighting - Full Interchange**

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG	0.00	EACH	\$469,000.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

MAJOR COST DRIVERS, LIGHTING

Total for Group 0044: \$0.00

**Group 0045: Lighting - Partial Interchange**

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

**Group 0046: Lighting - Continuous Roadway**

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	3,492.00	FT	\$35.00000	\$122,220.00

Total for Group 0046: \$122,220.00

**Group 0047: Other Lighting Costs**

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

**Group 0048: Traffic Surveillance**

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	1.00	LS	\$309,731.25000	\$309,731.25
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Total for Group 0048: \$309,731.25

**Group 0049: Signs**

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	0.66	MILE	\$250,000.00000	\$165,000.00

Total for Group 0049: \$165,000.00

**Group 0050: Pavement Marking**

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	1.32	MILE	\$3,000.00000	\$3,960.00
0503	644E00200 LANE LINE	0.99	MILE	\$2,000.00000	\$1,980.00

Total for Group 0050: \$5,940.00

**Group 0051: Other Traffic Control Costs**

0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
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Total for Group 0051: \$0.00

**Group 0052: Signals - Intersections**

0212	K-MC-SGNL	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

MAJOR COST DRIVERS, SIGNALS

Total for Group 0052: \$0.00

**Group 0053: Other Traffic Signal Costs**

0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0053: \$0.00

**Group 0054: Landscaping**

0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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Total for Group 0054: \$0.00

**Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing**

0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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0504	M-MC-WALL Retaining Walls	0.00	SF	\$135.00000	\$0.00
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Total for Group 0055: \$0.00

**Group 0056: Other Retaining Wall Costs**

0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0056: \$0.00

**Group 0057: Building Demolition**

0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0538	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Commercial</i>	0.00	EACH	\$30,000.00000	\$0.00
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0539	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	0.00	EACH	\$15,000.00000	\$0.00
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0540	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Residential</i>	0.00	EACH	\$12,000.00000	\$0.00
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0541	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Residential</i>	0.00	EACH	\$7,500.00000	\$0.00
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0542	202E98100 REMOVAL MISC.: <i>Radio Tower</i>	0.00	EACH	\$8,500.00000	\$0.00
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Total for Group 0057: \$0.00

**Group 0058: Noise Barrier**

0220	P-MC-NSBR	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b>Supplemental Description</b>				
	MAJOR COST DRIVERS, NOISE BARRIER				
0505	P-MC-NSBR Noise Barrier	0.00	LS	\$400.00000	\$0.00

Total for Group 0058: \$0.00

**Group 0059: Other Noise Barrier Costs**

0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00

Total for Group 0059: \$0.00

**Group 0060: New Structures**

0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	0.00	SF	\$125.00000	\$0.00
0507	R-MC-STRC Removal of Existing Structures non-complex	0.00	SF	\$12.00000	\$0.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	0.00	SF	\$17.00000	\$0.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	0.00	SF	\$30.00000	\$0.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	0.00	SF	\$150.00000	\$0.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	0.00	SF	\$200.00000	\$0.00

Total for Group 0060: \$0.00

**Group 0061: Rehabilitated Structures**

0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0533	511E34434 CLASS S CONCRETE, BRIDGE DECK <i>new bridge deck on existing beams</i>	170,177.00	SF	\$35.00000	\$5,956,195.00
0535	514E99000 SPECIAL - BRIDGE PAINTING	1.00	LS	\$22,000,000.00000	\$22,000,000.00
0536	Structural repair/rehabilitation	1.00	LS	\$1,000,000.00000	\$1,000,000.00
0537	202E11301 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN <i>Briodge deck removal</i>	170,177.00	SF	\$10.00000	\$1,701,770.00

Total for Group 0061: \$30,657,965.00

**Group 0062: Other Structure Costs**

0224	R-OC-STRC OTHER COSTS, STRUCTURES <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0534		0.00		\$0.00000	\$0.00

Total for Group 0062: \$0.00

**Group 0063: Temporary Road and Pavement Costs**



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
0225	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0063: \$0.00</b>					
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0064: \$0.00</b>					
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0065: \$0.00</b>					
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0066: \$0.00</b>					
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0067: \$0.00</b>					
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0068: \$0.00</b>					
<b>Group 0069: Innovative Contracting Incentives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0069: \$0.00</b>					
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	0.00	MILE	\$5,000,000.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0070: \$0.00</b>					
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
<b>Total for Group 0071: \$0.00</b>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0072: Misc. Costs**

0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	0.00	LS	\$10,000.00000	\$0.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$156,414.28000	\$156,414.28
0239	614E11000 MAINTAINING TRAFFIC 2%	0.00	LS	\$0.00000	\$0.00
0240	619E16020 FIELD OFFICE, TYPE C	19.00	MNTH	\$2,500.00000	\$47,500.00
0242	624E10000 MOBILIZATION	1.00	LS	\$800,000.00000	\$800,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$156,414.28000	\$156,414.28

Total for Group 0072: \$1,160,328.56

**Group 0073: Design Contingency Costs**

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS 25%	1.00	LS	\$8,110,796.20000	\$8,110,796.20

Total for Group 0073: \$8,110,796.20

**Group 0074: Inflation Contingency**

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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Total for Group 0074: \$0.00

## Estimate Alt I OH cont 2

Estimated Cost: \$10,727,667.45

Contingency: 29.20%

**Estimated Total: \$13,860,146.35**

*Linn St*

Base Date: 07/22/10

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District: 8

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	17,258.00	SY	\$8.00000	\$138,064.00

Total for Group 0001: \$138,064.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$30.00000	\$0.00
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Total for Group 0002: \$0.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	12,592.00	CY	\$8.00000	\$100,736.00

Total for Group 0003: \$100,736.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	12,592.00	CY	\$6.00000	\$75,552.00

Total for Group 0005: \$75,552.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$8.00000	\$0.00
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Total for Group 0007: \$0.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	0.00	FT	\$110.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$0.00

**Group 0009: Subgrade Treatment - Lime**

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

**Group 0010: Subgrade Treatment - Cement**

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	12,534.00	SY	\$2.50000	\$31,335.00
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Total for Group 0010: \$31,335.00

**Group 0011: Subgrade Treatment - Undercut & Backfill**

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

**Group 0012: Other Roadway Costs**

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0028	202E35200 PIPE REMOVED, OVER 24"	0.00	FT	\$0.00000	\$0.00
0029	202E38000 GUARDRAIL REMOVED	0.00	FT	\$0.00000	\$0.00
0030	202E42206 ANCHOR ASSEMBLY REMOVED	0.00	EACH	\$0.00000	\$0.00
0031	202E58000 MANHOLE REMOVED	0.00	EACH	\$0.00000	\$0.00
0032	202E58100 CATCH BASIN REMOVED	0.00	EACH	\$0.00000	\$0.00
0033	202E75000 FENCE REMOVED	0.00	FT	\$0.00000	\$0.00
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>PROOF ROLLING</b>				
0035	204E10000	0.00	SY	\$0.81000	\$0.00
	SUBGRADE COMPACTION				
0036	451E30000	0.00	FT	\$0.00000	\$0.00
	SPECIAL - PRESSURE RELIEF JOINT, TYPE A				
0037	606E13000	0.00	FT	\$14.00000	\$0.00
	GUARDRAIL, TYPE 5				
0038	606E22000	0.00	EACH	\$1,411.29597	\$0.00
	ANCHOR ASSEMBLY, TYPE B-98				
0039	606E22010	0.00	EACH	\$1,712.52574	\$0.00
	ANCHOR ASSEMBLY, TYPE E-98				
0040	606E26500	0.00	EACH	\$487.23435	\$0.00
	ANCHOR ASSEMBLY, TYPE T				
0041	606E35000	0.00	EACH	\$969.12750	\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 1				
0042	606E35100	0.00	EACH	\$338.36354	\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 2				
0043	606E60010	0.00	EACH	\$3,439.05897	\$0.00
	IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)				
0044	607E15000	0.00	FT	\$0.00000	\$0.00
	FENCE, TYPE 47				
	<i>For Fencing</i>				
0423	304E20000	0.00	CY	\$0.00000	\$0.00
	AGGREGATE BASE				
	<i>For Fencing</i>				
0424	601E32100	0.00	CY	\$0.00000	\$0.00
	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER				
	<i>For Fencing</i>				
0425	607E40500	0.00	EACH	\$731.31641	\$0.00
	GATE, TYPE 47				
	<i>For Fencing</i>				
0426	625E32000	0.00	EACH	\$0.00000	\$0.00
	GROUND ROD				
	<i>For Fencing</i>				
0466		0.00		\$0.00000	\$0.00
<b>Total for Group 0012: \$0.00</b>					

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0467	659E10000	0.00	SY	\$1.00000	\$0.00
	SEEDING AND MULCHING				
0531	660E25000	0.00	SY	\$15.00000	\$0.00
	SODDING STAKED				
<b>Total for Group 0014: \$0.00</b>					

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0469	601E32000	0.00	CY	\$75.00000	\$0.00
	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER				
<b>Total for Group 0015: \$0.00</b>					

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
MAJOR COST DRIVERS, EROSION CONTROL					
0470	832E10000	1.00	LS	\$20,000.00000	\$20,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0471	832E20000	6,000.00	EACH	\$1.00000	\$6,000.00
EROSION CONTROL					
<b>Total for Group 0016:</b>					<b>\$26,000.00</b>

**Group 0017: Other Erosion Control Costs**

0049	670E00700	0.00	SY	\$0.00000	\$0.00
DITCH EROSION PROTECTION					
0050	B-OC-ERCO	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, EROSION CONTROL					
0051	659E00100	0.00	EACH	\$0.00000	\$0.00
SOIL ANALYSIS TEST					
0052	659E00300	0.00	CY	\$0.00000	\$0.00
TOPSOIL					
0053	659E14000	0.00	SY	\$0.00000	\$0.00
REPAIR SEEDING AND MULCHING					
0054	659E15000	0.00	SY	\$0.71000	\$0.00
INTER-SEEDING					
0055	659E20000	0.00	TON	\$410.06813	\$0.00
COMMERCIAL FERTILIZER					
0056	659E31000	0.00	ACRE	\$0.00000	\$0.00
LIME					
0057	659E35000	0.00	MGAL	\$5.00000	\$0.00
WATER					
0058	659E40000	0.00	MSF	\$0.00000	\$0.00
MOWING					
<b>Total for Group 0017:</b>					<b>\$0.00</b>

**Group 0018: Underdrains**

0059	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0062	605E05100	4,524.00	FT	\$8.00000	\$36,192.00
4" SHALLOW PIPE UNDERDRAINS					
<b>Total for Group 0018:</b>					<b>\$36,192.00</b>

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0480	C-MC-DRNG	0.00	FT	\$350.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>					
0481	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					
<b>Total for Group 0019:</b>					<b>\$0.00</b>

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0476	C-MC-DRNG	0.00	FT	\$550.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"*

0477	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete - Headwalls/wingwalls</i>					

Total for Group 0021: \$0.00

**Group 0022: Culverts, Type A: 10' - 20'**

0486	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0487	C-MC-DRNG	0.00	FT	\$1,400.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>					

0488	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0022: \$0.00

**Group 0024: BMP's**

0076	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

Total for Group 0024: \$0.00

**Group 0025: Closed Storm System**

0077	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0489	603E13400	1,694.00	FT	\$75.00000	\$127,050.00
30" CONDUIT, TYPE B (Average size)					

0523	604E00800	16.00	EACH	\$1,500.00000	\$24,000.00
CATCH BASIN, NO. 3A					

0524	604E31500	4.00	EACH	\$3,000.00000	\$12,000.00
MANHOLE, NO. 3					

0525	604E36601	0.00	EACH	\$1,250.00000	\$0.00
PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN					

0526	Special	0.00	LS	\$6,400,000.00000	\$0.00
Pump Station (Storm)					

0527	Special	0.00	EACH	\$5,750.00000	\$0.00
Stormceptors					

0529	Special	0.00	LS	\$109,000.00000	\$0.00
Retention basin improvements					

Total for Group 0025: \$163,050.00

**Group 0026: Other Drainage Costs**

0078	C-OC-DRNG	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, DRAINAGE					

Total for Group 0026: \$0.00

**Group 0027: Mainline - Travel Lanes**

0095	D-MC-PVMT	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT					

0494	D-MC-PVMT	0.00	SY	\$68.00000	\$0.00
13" Reinforced Concrete Pavement					
<i>Includes 6" Agg Base and Subgrade Compaction</i>					



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0027: \$0.00

**Group 0028: Mainline - Outside Shoulder**

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0028: \$0.00

**Group 0030: Mainline - Inside Shoulder**

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0030: \$0.00

**Group 0031: Ramps (including shoulders)**

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0031: \$0.00

**Group 0032: Non - Mainline Lanes**

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	12,534.00	SY	\$41.00000	\$513,894.00

Total for Group 0032: \$513,894.00

**Group 0041: Other Pavement Costs**

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

**Group 0042: Water Works**

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

**Group 0043: Sanitary Line**

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0043: \$0.00

Group 0044: Lighting - Full Interchange

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	EACH	\$469,000.00000	\$0.00

Total for Group 0044: \$0.00

Group 0045: Lighting - Partial Interchange

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

Group 0046: Lighting - Continuous Roadway

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	2,665.00	FT	\$35.00000	\$93,275.00

Total for Group 0046: \$93,275.00

Group 0047: Other Lighting Costs

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

Group 0048: Traffic Surveillance

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	0.00	LS	\$0.00000	\$0.00
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Total for Group 0048: \$0.00

Group 0049: Signs

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	0.50	MILE	\$250,000.00000	\$125,000.00

Total for Group 0049: \$125,000.00

Group 0050: Pavement Marking

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	1.02	MILE	\$3,000.00000	\$3,060.00
0503	644E00200 LANE LINE	0.41	MILE	\$2,000.00000	\$820.00

Total for Group 0050: \$3,880.00

Group 0051: Other Traffic Control Costs

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
Total for Group 0051:					\$0.00
<b>Group 0052: Signals - Intersections</b>					
0212	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS	1.00	LS	\$175,000.00000	\$175,000.00
Total for Group 0052:					\$175,000.00
<b>Group 0053: Other Traffic Signal Costs</b>					
0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
Total for Group 0053:					\$0.00
<b>Group 0054: Landscaping</b>					
0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
Total for Group 0054:					\$0.00
<b>Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing</b>					
0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
0504	M-MC-WALL Retaining Walls	8,400.00	SF	\$135.00000	\$1,134,000.00
Total for Group 0055:					\$1,134,000.00
<b>Group 0056: Other Retaining Wall Costs</b>					
0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
Total for Group 0056:					\$0.00
<b>Group 0057: Building Demolition</b>					
0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
0532	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Commercial</i>	0.00	EACH	\$30,000.00000	\$0.00
0533	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	0.00	EACH	\$15,000.00000	\$0.00
0534	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Residential</i>	0.00	EACH	\$12,000.00000	\$0.00
0535	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Residential</i>	0.00	EACH	\$7,500.00000	\$0.00
0536	202E98100	0.00	EACH	\$8,500.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

REMOVAL MISC.:  
Radio Tower

Total for Group 0057: \$0.00

**Group 0058: Noise Barrier**

0220	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0505	P-MC-NSBR Noise Barrier	0.00	LS	\$400.00000	\$0.00

Total for Group 0058: \$0.00

**Group 0059: Other Noise Barrier Costs**

0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00

Total for Group 0059: \$0.00

**Group 0060: New Structures**

0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	35,636.00	SF	\$125.00000	\$4,454,500.00
0507	R-MC-STRC Removal of Existing Structures non-complex	0.00	SF	\$12.00000	\$0.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	45,662.00	SF	\$17.00000	\$776,254.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	0.00	SF	\$30.00000	\$0.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	0.00	SF	\$150.00000	\$0.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	0.00	SF	\$200.00000	\$0.00

Total for Group 0060: \$5,230,754.00

**Group 0061: Rehabilitated Structures**

0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	0.00	SF	\$45.00000	\$0.00
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Total for Group 0061: \$0.00

**Group 0062: Other Structure Costs**

0224	R-OC-STRC OTHER COSTS, STRUCTURES Contingency	0.00	LS	\$0.00000	\$0.00
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Total for Group 0062: \$0.00

**Group 0063: Temporary Road and Pavement Costs**

0225	S-MC-MNTC MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
<b>Total for Group 0063:</b>					<b>\$0.00</b>
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0064:</b>					<b>\$0.00</b>
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0065:</b>					<b>\$0.00</b>
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0066:</b>					<b>\$0.00</b>
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0067:</b>					<b>\$0.00</b>
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0068:</b>					<b>\$0.00</b>
<b>Group 0069: Innovative Contracting Incentatives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0069:</b>					<b>\$0.00</b>
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	0.50	MILE	\$500,000.00000	\$250,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0070:</b>					<b>\$250,000.00</b>
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
<b>Total for Group 0071:</b>					<b>\$0.00</b>
<b>Group 0072: Misc. Costs</b>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b><u>Supplemental Description</u></b>				
0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	0.00	LS	\$10,000.00000	\$0.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$40,483.66000	\$40,483.66
0239	614E11000 MAINTAINING TRAFFIC 5%	1.00	LS	\$161,934.64000	\$161,934.64
0240	619E16020 FIELD OFFICE, TYPE C	17.00	MNTH	\$2,500.00000	\$42,500.00
0242	624E10000 MOBILIZATION	1.00	LS	\$200,000.00000	\$200,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$40,483.66000	\$40,483.66

Total for Group 0072: \$485,401.96

Group 0073: Design Contingency Costs

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS 25%	1.00	LS	\$2,145,533.49000	\$2,145,533.49
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00

Total for Group 0073: \$2,145,533.49

Group 0074: Inflation Contingency

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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Total for Group 0074: \$0.00

Macro View

										Attributes						
Acquisition	Unit (SF) or (Acreage)	X	Cost/Unit (\$\$/SF) (\$\$/Acre)	Subtotal Land Value	+	Structure Values (if Taken)	+	Damages (Loss in Value to the Residue)	=	Subtotal Structures & Damages	Total Non Labor Acquisition Costs	Parcel Count	Total Takes	Partial Takes	No. of Structures Impacted	
-Residential	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	\$0.00	0	0	0	0	
-Commercial	0.01	X	\$702,025.81	\$7,020	+	0	+	N/A	=	\$0.00	\$7,020.26	1	0	1	0	
-Industrial	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	\$0.00	0	0	0	0	
-Agricultural	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	\$0.00	0	0	0	0	
Relocation	Unit (Displacement)	X	*RHP/*RSP		+	Move Cost	+	Reestablishment	=	Total Non Labor RAP Costs	Estimate amount of time necessary to relocate all RAP parcels = (months) 18					
-Residential Owner Occupant	0	X	\$34,000		+	\$6,000			=	\$0	Estimate number of years until project wide R/W acquisition begins = 1.75					
-Residential Tenant	0	X	\$10,000		+	\$1,750			=	\$0						
-Commerical/Farm/NPO Owner	0				X	\$15,000	+	\$10,000	=	\$0						
-Commerical/Farm/NPO Tenant	0				X	\$15,000	+	\$10,000	=	\$0						
-Personal Property	0				X	\$1,000			=	\$0						
$\{((\text{Total Cost of Acquisition Cost}) \times 0.90) \times 0.025\} + \{((\text{Total of Acquisition Cost}) \times 0.15) \times 1.20\} + \{((\text{Total of Acquisition Cost}) \times 0.10) \times 1.50\} = \text{Contingency}$									Contingency (Incidentals, Admin. Review & Appropriation)		2474.64098		*RHP - Replacement Housing Payment *RSP - Rent Supplemental Payment *NPO - Non-Profit Organization			
										<b>Total Non Labor R/W Costs</b>		<b>\$9,494.90</b>				

**Instruction for Acquisition & Relocation Cost Estimates**

Estimate the total number of acres involved in the project and allocate those acres into the four categories shown.

Assign an average unit price for each category. These unit prices are typically taken from the auditors tax card data. Cost Estimates prepared at Step 4 (Step 7 on Major Projects) and thereafter must base unit prices on a project sales data book instead of tax card data.

Add structure values from the auditors tax cards only if the structures are taken.

Damages must be assessed by a pre-qualified expert with experience in Before & After analysis. This usually occurs at Step 4 for Minor projects (Step 6 on Major Projects) and requires some knowledge of the impacts of the project on structures.

Relocation Cost Estimates must consider the complexity of the move process. All move estimates that involve a business or a multi-tenant residential structure should use the services of a relocation Assistance professional to accurately gauge costs.

Macro View

Labor (External)	Unit (Parcels)	X	Unit Price	=	Total Cost
Titles	1	X	\$400	=	\$400
Appraisal -Simple	0	X	\$750	=	\$0
-Detailed	1	X	\$4,500	=	\$4,500
Appraisal Review -Simple	0	X	\$500	=	\$0
-Detailed	1	X	\$2,000	=	\$2,000
Negotiations	1	X	\$1,100	=	\$1,100
Relocations -Personal Property	0	X	\$1,500	=	\$0
-Residential	0	X	\$5,200	=	\$0
-Commercial/Farm/*NPO	0	X	\$5,600	=	\$0
Closings	1	X	\$400	=	\$400
Project Management	1	X	\$550	=	\$550
Asbestos Testing & Abatement		X		=	
<b>Total Labor Costs</b>					<b>\$8,950</b>

\*NPO = Non-Profit Organization

This R/W Cost Estimate Prepared by	Date
Chris Clemons	8/4/2010
This R/W Cost Estimate was performed at Step 6 of the PDP for MAJOR Projects using	

<b>Total Labor Costs</b>	\$8,950.00
<b>Total Non Labor R/W Costs</b>	\$9,494.90
<b>Inflation Adjustments</b>	\$1,125.14
<b>Total R/W Costs</b>	<b>\$19,570.04</b>

**Instructions for Labor Cost Estimates**

Labor costs are a function of time, distance, and talent. Labor costs estimates should reflect the complexity of the project and the talent necessary to acquire the right of way in a timely manner. The person making the cost estimate may adjust the figures given for the particular project being estimated to reflect local labor costs. It is critical that the estimate be labeled to reflect the alignment alternative, the step in the PDP process and the person(s) performing the estimate.

**Comments**

Cost/Unit were generated from auditors tax card data.

**P.D.P. R/W Cost Estimator**

## Estimate Alt I OH cont 3

Estimated Cost: \$22,959,232.28

Contingency: 32.90%

**Estimated Total: \$30,512,819.70**

*OH-3 Ezzard Charles*

Base Date: 07/22/10

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District: 8

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	21,262.00	SY	\$8.00000	\$170,096.00

Total for Group 0001: \$170,096.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$30.00000	\$0.00
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Total for Group 0002: \$0.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	40,911.00	CY	\$8.00000	\$327,288.00

Total for Group 0003: \$327,288.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	40,911.00	CY	\$6.00000	\$245,466.00

Total for Group 0005: \$245,466.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$8.00000	\$0.00
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Total for Group 0007: \$0.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	0.00	FT	\$110.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$0.00

**Group 0009: Subgrade Treatment - Lime**

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

**Group 0010: Subgrade Treatment - Cement**

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	27,862.00	SY	\$2.50000	\$69,655.00
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Total for Group 0010: \$69,655.00

**Group 0011: Subgrade Treatment - Undercut & Backfill**

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

**Group 0012: Other Roadway Costs**

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0028	202E35200 PIPE REMOVED, OVER 24"	0.00	FT	\$0.00000	\$0.00
0029	202E38000 GUARDRAIL REMOVED	0.00	FT	\$0.00000	\$0.00
0030	202E42206 ANCHOR ASSEMBLY REMOVED	0.00	EACH	\$0.00000	\$0.00
0031	202E58000 MANHOLE REMOVED	0.00	EACH	\$0.00000	\$0.00
0032	202E58100 CATCH BASIN REMOVED	0.00	EACH	\$0.00000	\$0.00
0033	202E75000 FENCE REMOVED	0.00	FT	\$0.00000	\$0.00
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>PROOF ROLLING</b>				
0035	204E10000	0.00	SY	\$0.81000	\$0.00
	SUBGRADE COMPACTION				
0036	451E30000	0.00	FT	\$0.00000	\$0.00
	SPECIAL - PRESSURE RELIEF JOINT, TYPE A				
0037	606E13000	0.00	FT	\$14.00000	\$0.00
	GUARDRAIL, TYPE 5				
0038	606E22000	0.00	EACH	\$1,411.29597	\$0.00
	ANCHOR ASSEMBLY, TYPE B-98				
0039	606E22010	0.00	EACH	\$1,712.52574	\$0.00
	ANCHOR ASSEMBLY, TYPE E-98				
0040	606E26500	0.00	EACH	\$487.23435	\$0.00
	ANCHOR ASSEMBLY, TYPE T				
0041	606E35000	0.00	EACH	\$969.12750	\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 1				
0042	606E35100	0.00	EACH	\$338.36354	\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 2				
0043	606E60010	0.00	EACH	\$3,439.05897	\$0.00
	IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)				
0044	607E15000	0.00	FT	\$0.00000	\$0.00
	FENCE, TYPE 47				
	<i>For Fencing</i>				
0423	304E20000	0.00	CY	\$0.00000	\$0.00
	AGGREGATE BASE				
	<i>For Fencing</i>				
0424	601E32100	0.00	CY	\$0.00000	\$0.00
	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER				
	<i>For Fencing</i>				
0425	607E40500	0.00	EACH	\$731.31641	\$0.00
	GATE, TYPE 47				
	<i>For Fencing</i>				
0426	625E32000	0.00	EACH	\$0.00000	\$0.00
	GROUND ROD				
	<i>For Fencing</i>				
0466		0.00		\$0.00000	\$0.00
<b>Total for Group 0012: \$0.00</b>					

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0467	659E10000	14,738.00	SY	\$1.00000	\$14,738.00
	SEEDING AND MULCHING				
0531	660E25000	0.00	SY	\$15.00000	\$0.00
	SODDING STAKED				
<b>Total for Group 0014: \$14,738.00</b>					

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0469	601E32000	0.00	CY	\$75.00000	\$0.00
	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER				
<b>Total for Group 0015: \$0.00</b>					

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<b>MAJOR COST DRIVERS, EROSION CONTROL</b>					
0470	832E10000	1.00	LS	\$50,000.00000	\$50,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0471	832E20000	24,000.00	EACH	\$1.00000	\$24,000.00
EROSION CONTROL					

Total for Group 0016: \$74,000.00

**Group 0017: Other Erosion Control Costs**

0049	670E00700	0.00	SY	\$0.00000	\$0.00
DITCH EROSION PROTECTION					
0050	B-OC-ERCO	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, EROSION CONTROL					
0051	659E00100	0.00	EACH	\$0.00000	\$0.00
SOIL ANALYSIS TEST					
0052	659E00300	0.00	CY	\$0.00000	\$0.00
TOPSOIL					
0053	659E14000	0.00	SY	\$0.00000	\$0.00
REPAIR SEEDING AND MULCHING					
0054	659E15000	0.00	SY	\$0.71000	\$0.00
INTER-SEEDING					
0055	659E20000	0.00	TON	\$410.06813	\$0.00
COMMERCIAL FERTILIZER					
0056	659E31000	0.00	ACRE	\$0.00000	\$0.00
LIME					
0057	659E35000	0.00	MGAL	\$5.00000	\$0.00
WATER					
0058	659E40000	0.00	MSF	\$0.00000	\$0.00
MOWING					

Total for Group 0017: \$0.00

**Group 0018: Underdrains**

0059	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0062	605E05100	16,411.00	FT	\$8.00000	\$131,288.00
4" SHALLOW PIPE UNDERDRAINS					

Total for Group 0018: \$131,288.00

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0480	C-MC-DRNG	0.00	FT	\$350.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>					
0481	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0019: \$0.00

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0476	C-MC-DRNG	0.00	FT	\$550.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"*

0477	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete - Headwalls/wingwalls</i>					

Total for Group 0021: \$0.00

**Group 0022: Culverts, Type A: 10' - 20'**

0486	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0487	C-MC-DRNG	0.00	FT	\$1,400.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>					

0488	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0022: \$0.00

**Group 0024: BMP's**

0076	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

Total for Group 0024: \$0.00

**Group 0025: Closed Storm System**

0077	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0489	603E13400	1,400.00	FT	\$75.00000	\$105,000.00
30" CONDUIT, TYPE B (Average size)					

0523	604E00800	25.00	EACH	\$1,500.00000	\$37,500.00
CATCH BASIN, NO. 3A					

0524	604E31500	3.00	EACH	\$3,000.00000	\$9,000.00
MANHOLE, NO. 3					

0525	604E36601	0.00	EACH	\$1,250.00000	\$0.00
PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN					

0526	Special	0.00	LS	\$6,400,000.00000	\$0.00
Pump Station (Storm)					

0527	Special	0.00	EACH	\$5,750.00000	\$0.00
Stormceptors					

0529	Special	0.00	LS	\$109,000.00000	\$0.00
Retention basin improvements					

Total for Group 0025: \$151,500.00

**Group 0026: Other Drainage Costs**

0078	C-OC-DRNG	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, DRAINAGE					

Total for Group 0026: \$0.00

**Group 0027: Mainline - Travel Lanes**

0095	D-MC-PVMT	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT					

0494	D-MC-PVMT	0.00	SY	\$68.00000	\$0.00
13" Reinforced Concrete Pavement					
<i>Includes 6" Agg Base and Subgrade Compaction</i>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0027: \$0.00

**Group 0028: Mainline - Outside Shoulder**

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0028: \$0.00

**Group 0030: Mainline - Inside Shoulder**

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0030: \$0.00

**Group 0031: Ramps (including shoulders)**

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	8,907.00	SY	\$68.00000	\$605,676.00

Total for Group 0031: \$605,676.00

**Group 0032: Non - Mainline Lanes**

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	18,955.00	SY	\$41.00000	\$777,155.00

Total for Group 0032: \$777,155.00

**Group 0041: Other Pavement Costs**

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

**Group 0042: Water Works**

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

**Group 0043: Sanitary Line**

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0043: \$0.00

Group 0044: Lighting - Full Interchange

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	EACH	\$469,000.00000	\$0.00

Total for Group 0044: \$0.00

Group 0045: Lighting - Partial Interchange

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

Group 0046: Lighting - Continuous Roadway

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	4,966.00	FT	\$35.00000	\$173,810.00

Total for Group 0046: \$173,810.00

Group 0047: Other Lighting Costs

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

Group 0048: Traffic Surveillance

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	0.00	LS	\$0.00000	\$0.00
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Total for Group 0048: \$0.00

Group 0049: Signs

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	0.94	MILE	\$250,000.00000	\$235,000.00

Total for Group 0049: \$235,000.00

Group 0050: Pavement Marking

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	2.44	MILE	\$3,000.00000	\$7,320.00
0503	644E00200 LANE LINE	0.16	MILE	\$2,000.00000	\$320.00

Total for Group 0050: \$7,640.00

Group 0051: Other Traffic Control Costs

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00

Total for Group 0051: \$0.00

Group 0052: Signals - Intersections

0212	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS	4.00	EACH	\$175,000.00000	\$700,000.00
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Total for Group 0052: \$700,000.00

Group 0053: Other Traffic Signal Costs

0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0053: \$0.00

Group 0054: Landscaping

0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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Total for Group 0054: \$0.00

Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing

0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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0504	M-MC-WALL Retaining Walls	38,583.00	SF	\$135.00000	\$5,208,705.00
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Total for Group 0055: \$5,208,705.00

Group 0056: Other Retaining Wall Costs

0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0056: \$0.00

Group 0057: Building Demolition

0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0532	202E98100 REMOVAL MISC.: <i>Radio Tower</i>	0.00	EACH	\$8,500.00000	\$0.00
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0533	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Residential</i>	0.00	EACH	\$7,500.00000	\$0.00
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0534	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Residential</i>	0.00	EACH	\$12,000.00000	\$0.00
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0535	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	0.00	EACH	\$15,000.00000	\$0.00
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0536	202E56101	0.00	EACH	\$30,000.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

BUILDING DEMOLISHED, AS PER PLAN  
*Large Commercial*

Total for Group 0057: \$0.00

**Group 0058: Noise Barrier**

0220	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0505	P-MC-NSBR Noise Barrier	13,370.00	SF	\$25.00000	\$334,250.00

Total for Group 0058: \$334,250.00

**Group 0059: Other Noise Barrier Costs**

0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00

Total for Group 0059: \$0.00

**Group 0060: New Structures**

0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	57,283.00	SF	\$125.00000	\$7,160,375.00
0507	R-MC-STRC Removal of Existing Structures non-complex	2,637.00	SF	\$12.00000	\$31,644.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	28,124.00	SF	\$17.00000	\$478,108.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	0.00	SF	\$30.00000	\$0.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	0.00	SF	\$150.00000	\$0.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	0.00	SF	\$200.00000	\$0.00

Total for Group 0060: \$7,670,127.00

**Group 0061: Rehabilitated Structures**

0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	0.00	SF	\$45.00000	\$0.00
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Total for Group 0061: \$0.00

**Group 0062: Other Structure Costs**

0224	R-OC-STRC OTHER COSTS, STRUCTURES <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
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Total for Group 0062: \$0.00

**Group 0063: Temporary Road and Pavement Costs**

0225	S-MC-MNTC MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
<b>Total for Group 0063:</b>					<b>\$0.00</b>
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0064:</b>					<b>\$0.00</b>
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0065:</b>					<b>\$0.00</b>
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0066:</b>					<b>\$0.00</b>
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0067:</b>					<b>\$0.00</b>
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0068:</b>					<b>\$0.00</b>
<b>Group 0069: Innovative Contracting Incentatives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0069:</b>					<b>\$0.00</b>
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	0.94	MILE	\$500,000.00000	\$470,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0070:</b>					<b>\$470,000.00</b>
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
<b>Total for Group 0071:</b>					<b>\$0.00</b>
<b>Group 0072: Misc. Costs</b>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b><u>Supplemental Description</u></b>				
0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	0.00	LS	\$10,000.00000	\$0.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$86,831.97000	\$86,831.97
0239	614E11000 MAINTAINING TRAFFIC 5%	1.00	LS	\$347,327.88000	\$347,327.88
0240	619E16020 FIELD OFFICE, TYPE C	32.00	MNTH	\$2,500.00000	\$80,000.00
0242	624E10000 MOBILIZATION	1.00	LS	\$400,000.00000	\$400,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$86,831.97000	\$86,831.97

Total for Group 0072: \$1,000,991.82

**Group 0073: Design Contingency Costs**

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS 25%	1.00	LS	\$4,591,846.46000	\$4,591,846.46
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00

Total for Group 0073: \$4,591,846.46

**Group 0074: Inflation Contingency**

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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Total for Group 0074: \$0.00

Macro View

										Attributes						
Acquisition	Unit (SF) or (Acreage)	X	Cost/Unit (\$\$/SF) (\$\$/Acre)	Subtotal Land Value	+	Structure Values (if Taken)	+	Damages (Loss in Value to the Residue)	=	Subtotal Structures & Damages	=	Total Non Labor Acquisition Costs	Parcel Count	Total Takes	Partial Takes	No. of Structures Impacted
-Residential	0.01	X	\$101,498.99	\$1,015	+	0	+	N/A	=	\$0.00	=	\$1,014.99	1	0	1	0
-Commercial	0.01	X	\$91,923.04	\$919	+	0	+	N/A	=	\$0.00	=	\$919.23	2	0	2	0
-Industrial	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	=	\$0.00	0	0	0	0
-Park	0.28	X	\$955.66	\$268	+	0	+	N/A	=	\$0.00	=	\$267.58	1	0	1	0
Relocation	Unit (Displacement)	X	*RHP/*RSP		+	Move Cost	+	Reestablishment	=	Total Non Labor RAP Costs	Estimate amount of time necessary to relocate all RAP parcels = (months) 18					
-Residential Owner Occupant	0	X	\$34,000		+	\$6,000			=	\$0	Estimate number of years until project wide R/W acquisition begins = 1.75					
-Residential Tenant	0	X	\$10,000		+	\$1,750			=	\$0						
-Commerical/Farm/NPO Owner	0				X	\$15,000	+	\$10,000	=	\$0						
-Commerical/Farm/NPO Tenant	0				X	\$15,000	+	\$10,000	=	\$0						
-Personal Property	0				X	\$1,000			=	\$0						
$\{((\text{Total Cost of Acquisition Cost}) \times 0.90) \times 0.025\} + \{((\text{Total of Acquisition Cost}) \times 0.15) \times 1.20\} + \{((\text{Total of Acquisition Cost}) \times 0.10) \times 1.50\} = \text{Contingency}$									Contingency (Incidentals, Admin. Review & Appropriation)		776.1362978		*RHP - Replacement Housing Payment *RSP - Rent Supplemental Payment *NPO - Non-Profit Organization			
										<b>Total Non Labor R/W Costs</b>		<b>\$2,977.94</b>				

**Instruction for Acquisition & Relocation Cost Estimates**

Estimate the total number of acres involved in the project and allocate those acres into the four categories shown.

Assign an average unit price for each category. These unit prices are typically taken from the auditors tax card data. Cost Estimates prepared at Step 4 (Step 7 on Major Projects) and thereafter must base unit prices on a project sales data book instead of tax card data.

Add structure values from the auditors tax cards only if the structures are taken.

Damages must be assessed by a pre-qualified expert with experience in Before & After analysis. This usually occurs at Step 4 for Minor projects (Step 6 on Major Projects) and requires some knowledge of the impacts of the project on structures.

Relocation Cost Estimates must consider the complexity of the move process. All move estimates that involve a business or a multi-tenant residential structure should use the services of a relocation Assistance professional to accurately gauge costs.

Macro View

Labor (External)	Unit (Parcels)	X	Unit Price	=	Total Cost
Titles	4	X	\$400	=	\$1,600
Appraisal -Simple	0	X	\$750	=	\$0
-Detailed	4	X	\$4,500	=	\$18,000
Appraisal Review -Simple	0	X	\$500	=	\$0
-Detailed	4	X	\$2,000	=	\$8,000
Negotiations	4	X	\$1,100	=	\$4,400
Relocations -Personal Property	0	X	\$1,500	=	\$0
-Residential	0	X	\$5,200	=	\$0
-Commercial/Farm/*NPO	0	X	\$5,600	=	\$0
Closings	4	X	\$400	=	\$1,600
Project Management	4	X	\$550	=	\$2,200
Asbestos Testing & Abatement		X		=	
<b>Total Labor Costs</b>					<b>\$35,800</b>

\*NPO = Non-Profit Organization

This R/W Cost Estimate Prepared by	Date
Chris Clemons	8/4/2010
This R/W Cost Estimate was performed at Step 6 of the PDP for MAJOR Projects using	

<b>Total Labor Costs</b>	\$35,800.00
<b>Total Non Labor R/W Costs</b>	\$2,977.94
<b>Inflation Adjustments</b>	\$2,365.45
<b>Total R/W Costs</b>	<b>\$41,143.39</b>

**Instructions for Labor Cost Estimates**

Labor costs are a function of time, distance, and talent. Labor costs estimates should reflect the complexity of the project and the talent necessary to acquire the right of way in a timely manner. The person making the cost estimate may adjust the figures given for the particular project being estimated to reflect local labor costs. It is critical that the estimate be labeled to reflect the alignment alternative, the step in the PDP process and the person(s) performing the estimate.

**Comments**

Cost/Unit were generated from auditors tax card data. Changed "Agriculture" category to "Park" to include the Queensgate Ballfields.

**P.D.P. R/W Cost Estimator**

## Estimate Alt I OH cont 4

Estimated Cost: \$29,959,628.59

Contingency: 32.90%

**Estimated Total: \$39,816,346.40**

*OH-4 Seventh St, Eighth St, Ninth St*

Base Date: 07/22/10

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District: 8

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	7,488.00	SY	\$8.00000	\$59,904.00

Total for Group 0001: \$59,904.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$30.00000	\$0.00
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Total for Group 0002: \$0.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	45,208.00	CY	\$8.00000	\$361,664.00

Total for Group 0003: \$361,664.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	45,208.00	CY	\$6.00000	\$271,248.00

Total for Group 0005: \$271,248.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$8.00000	\$0.00
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Total for Group 0007: \$0.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	0.00	FT	\$110.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$0.00

**Group 0009: Subgrade Treatment - Lime**

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

**Group 0010: Subgrade Treatment - Cement**

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	17,679.00	SY	\$2.50000	\$44,197.50
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Total for Group 0010: \$44,197.50

**Group 0011: Subgrade Treatment - Undercut & Backfill**

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

**Group 0012: Other Roadway Costs**

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0028	202E35200 PIPE REMOVED, OVER 24"	0.00	FT	\$0.00000	\$0.00
0029	202E38000 GUARDRAIL REMOVED	0.00	FT	\$0.00000	\$0.00
0030	202E42206 ANCHOR ASSEMBLY REMOVED	0.00	EACH	\$0.00000	\$0.00
0031	202E58000 MANHOLE REMOVED	0.00	EACH	\$0.00000	\$0.00
0032	202E58100 CATCH BASIN REMOVED	0.00	EACH	\$0.00000	\$0.00
0033	202E75000 FENCE REMOVED	0.00	FT	\$0.00000	\$0.00
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>PROOF ROLLING</b>				
0035	204E10000	0.00	SY	\$0.81000	\$0.00
	<b>SUBGRADE COMPACTION</b>				
0036	451E30000	0.00	FT	\$0.00000	\$0.00
	<b>SPECIAL - PRESSURE RELIEF JOINT, TYPE A</b>				
0037	606E13000	0.00	FT	\$14.00000	\$0.00
	<b>GUARDRAIL, TYPE 5</b>				
0038	606E22000	0.00	EACH	\$1,411.29597	\$0.00
	<b>ANCHOR ASSEMBLY, TYPE B-98</b>				
0039	606E22010	0.00	EACH	\$1,712.52574	\$0.00
	<b>ANCHOR ASSEMBLY, TYPE E-98</b>				
0040	606E26500	0.00	EACH	\$487.23435	\$0.00
	<b>ANCHOR ASSEMBLY, TYPE T</b>				
0041	606E35000	0.00	EACH	\$969.12750	\$0.00
	<b>BRIDGE TERMINAL ASSEMBLY, TYPE 1</b>				
0042	606E35100	0.00	EACH	\$338.36354	\$0.00
	<b>BRIDGE TERMINAL ASSEMBLY, TYPE 2</b>				
0043	606E60010	0.00	EACH	\$3,439.05897	\$0.00
	<b>IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)</b>				
0044	607E15000	0.00	FT	\$0.00000	\$0.00
	<b>FENCE, TYPE 47</b>				
	<i>For Fencing</i>				
0423	304E20000	0.00	CY	\$0.00000	\$0.00
	<b>AGGREGATE BASE</b>				
	<i>For Fencing</i>				
0424	601E32100	0.00	CY	\$0.00000	\$0.00
	<b>ROCK CHANNEL PROTECTION, TYPE B WITH FILTER</b>				
	<i>For Fencing</i>				
0425	607E40500	0.00	EACH	\$731.31641	\$0.00
	<b>GATE, TYPE 47</b>				
	<i>For Fencing</i>				
0426	625E32000	0.00	EACH	\$0.00000	\$0.00
	<b>GROUND ROD</b>				
	<i>For Fencing</i>				
0466		0.00		\$0.00000	\$0.00
<b>Total for Group 0012: \$0.00</b>					

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	<b>MAJOR COST DRIVERS, EROSION CONTROL</b>				
0467	659E10000	5,080.00	SY	\$1.00000	\$5,080.00
	<b>SEEDING AND MULCHING</b>				
0531	660E25000	0.00	SY	\$15.00000	\$0.00
	<b>SODDING STAKED</b>				
<b>Total for Group 0014: \$5,080.00</b>					

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	<b>MAJOR COST DRIVERS, EROSION CONTROL</b>				
0469	601E32000	0.00	CY	\$75.00000	\$0.00
	<b>ROCK CHANNEL PROTECTION, TYPE A WITH FILTER</b>				
<b>Total for Group 0015: \$0.00</b>					

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<b>MAJOR COST DRIVERS, EROSION CONTROL</b>					
0470	832E10000	1.00	LS	\$50,000.00000	\$50,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0471	832E20000	24,000.00	EACH	\$1.00000	\$24,000.00
EROSION CONTROL					

Total for Group 0016: \$74,000.00

**Group 0017: Other Erosion Control Costs**

0049	670E00700	0.00	SY	\$0.00000	\$0.00
DITCH EROSION PROTECTION					
0050	B-OC-ERCO	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, EROSION CONTROL					
0051	659E00100	0.00	EACH	\$0.00000	\$0.00
SOIL ANALYSIS TEST					
0052	659E00300	0.00	CY	\$0.00000	\$0.00
TOPSOIL					
0053	659E14000	0.00	SY	\$0.00000	\$0.00
REPAIR SEEDING AND MULCHING					
0054	659E15000	0.00	SY	\$0.71000	\$0.00
INTER-SEEDING					
0055	659E20000	0.00	TON	\$410.06813	\$0.00
COMMERCIAL FERTILIZER					
0056	659E31000	0.00	ACRE	\$0.00000	\$0.00
LIME					
0057	659E35000	0.00	MGAL	\$5.00000	\$0.00
WATER					
0058	659E40000	0.00	MSF	\$0.00000	\$0.00
MOWING					

Total for Group 0017: \$0.00

**Group 0018: Underdrains**

0059	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0062	605E05100	11,272.00	FT	\$8.00000	\$90,176.00
4" SHALLOW PIPE UNDERDRAINS					

Total for Group 0018: \$90,176.00

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0480	C-MC-DRNG	0.00	FT	\$350.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>					
0481	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0019: \$0.00

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0476	C-MC-DRNG	0.00	FT	\$550.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"*

0477	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete - Headwalls/wingwalls</i>					

Total for Group 0021: \$0.00

**Group 0022: Culverts, Type A: 10' - 20'**

0486	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0487	C-MC-DRNG	0.00	FT	\$1,400.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>					

0488	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0022: \$0.00

**Group 0024: BMP's**

0076	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

Total for Group 0024: \$0.00

**Group 0025: Closed Storm System**

0077	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0489	603E13400	221.00	FT	\$75.00000	\$16,575.00
30" CONDUIT, TYPE B (Average size)					

0523	604E00800	12.00	EACH	\$1,500.00000	\$18,000.00
CATCH BASIN, NO. 3A					

0524	604E31500	0.00	EACH	\$3,000.00000	\$0.00
MANHOLE, NO. 3					

0525	604E36601	0.00	EACH	\$1,250.00000	\$0.00
PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN					

0526	Special	0.00	LS	\$6,400,000.00000	\$0.00
Pump Station (Storm)					

0527	Special	0.00	EACH	\$5,750.00000	\$0.00
Stormceptors					

0529	Special	0.00	LS	\$109,000.00000	\$0.00
Retention basin improvements					

Total for Group 0025: \$34,575.00

**Group 0026: Other Drainage Costs**

0078	C-OC-DRNG	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, DRAINAGE					

Total for Group 0026: \$0.00

**Group 0027: Mainline - Travel Lanes**

0095	D-MC-PVMT	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT					

0494	D-MC-PVMT	0.00	SY	\$68.00000	\$0.00
13" Reinforced Concrete Pavement					
<i>Includes 6" Agg Base and Subgrade Compaction</i>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0027: \$0.00

**Group 0028: Mainline - Outside Shoulder**

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0028: \$0.00

**Group 0030: Mainline - Inside Shoulder**

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0030: \$0.00

**Group 0031: Ramps (including shoulders)**

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	3,607.00	SY	\$68.00000	\$245,276.00

Total for Group 0031: \$245,276.00

**Group 0032: Non - Mainline Lanes**

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	14,072.00	SY	\$41.00000	\$576,952.00

Total for Group 0032: \$576,952.00

**Group 0041: Other Pavement Costs**

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

**Group 0042: Water Works**

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

**Group 0043: Sanitary Line**

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0043: \$0.00

Group 0044: Lighting - Full Interchange

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	EACH	\$469,000.00000	\$0.00

Total for Group 0044: \$0.00

Group 0045: Lighting - Partial Interchange

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

Group 0046: Lighting - Continuous Roadway

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	5,299.00	FT	\$35.00000	\$185,465.00

Total for Group 0046: \$185,465.00

Group 0047: Other Lighting Costs

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

Group 0048: Traffic Surveillance

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	0.00	LS	\$0.00000	\$0.00
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Total for Group 0048: \$0.00

Group 0049: Signs

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	1.00	MILE	\$250,000.00000	\$250,000.00

Total for Group 0049: \$250,000.00

Group 0050: Pavement Marking

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	2.20	MILE	\$3,000.00000	\$6,600.00
0503	644E00200 LANE LINE	0.95	MILE	\$2,000.00000	\$1,900.00

Total for Group 0050: \$8,500.00

Group 0051: Other Traffic Control Costs

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
				Total for Group 0051: \$0.00	
<b>Group 0052: Signals - Intersections</b>					
0212	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS	1.00	LS	\$0.00000	\$0.00
				Total for Group 0052: \$0.00	
<b>Group 0053: Other Traffic Signal Costs</b>					
0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
				Total for Group 0053: \$0.00	
<b>Group 0054: Landscaping</b>					
0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
				Total for Group 0054: \$0.00	
<b>Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing</b>					
0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
0504	M-MC-WALL Retaining Walls	18,939.00	SF	\$135.00000	\$2,556,765.00
				Total for Group 0055: \$2,556,765.00	
<b>Group 0056: Other Retaining Wall Costs</b>					
0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
				Total for Group 0056: \$0.00	
<b>Group 0057: Building Demolition</b>					
0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
0532	202E98100 REMOVAL MISC.: <i>Radio Tower</i>	0.00	EACH	\$8,500.00000	\$0.00
0533	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Commercial</i>	0.00	EACH	\$30,000.00000	\$0.00
0534	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	1.00	EACH	\$15,000.00000	\$15,000.00
0535	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Residential</i>	0.00	EACH	\$12,000.00000	\$0.00
0536	202E56101	0.00	EACH	\$7,500.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

BUILDING DEMOLISHED, AS PER PLAN  
*Small Residential*

Total for Group 0057: \$15,000.00

**Group 0058: Noise Barrier**

0220	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0505	P-MC-NSBR Noise Barrier	0.00	LS	\$400.00000	\$0.00

Total for Group 0058: \$0.00

**Group 0059: Other Noise Barrier Costs**

0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00

Total for Group 0059: \$0.00

**Group 0060: New Structures**

0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	0.00	SF	\$125.00000	\$0.00
0507	R-MC-STRC Removal of Existing Structures non-complex	0.00	SF	\$12.00000	\$0.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	85,729.00	SF	\$17.00000	\$1,457,393.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	0.00	SF	\$30.00000	\$0.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	104,527.00	SF	\$150.00000	\$15,679,050.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	0.00	SF	\$200.00000	\$0.00

Total for Group 0060: \$17,136,443.00

**Group 0061: Rehabilitated Structures**

0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	0.00	SF	\$45.00000	\$0.00
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Total for Group 0061: \$0.00

**Group 0062: Other Structure Costs**

0224	R-OC-STRC OTHER COSTS, STRUCTURES <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
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Total for Group 0062: \$0.00

**Group 0063: Temporary Road and Pavement Costs**

0225	S-MC-MNTC MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
Total for Group 0063:					\$0.00
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0064:					\$0.00
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0065:					\$0.00
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0066:					\$0.00
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0067:					\$0.00
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0068:					\$0.00
<b>Group 0069: Innovative Contracting Incentives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0069:					\$0.00
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	1.00	MILE	\$500,000.00000	\$500,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
Total for Group 0070:					\$500,000.00
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
Total for Group 0071:					\$0.00
<b>Group 0072: Misc. Costs</b>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	0.00	LS	\$10,000.00000	\$0.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$112,076.23000	\$112,076.23
0239	614E11000 MAINTAINING TRAFFIC 2%	1.00	LS	\$448,304.91000	\$448,304.91
0240	619E16020 FIELD OFFICE, TYPE C	32.00	MNTH	\$2,500.00000	\$80,000.00
0242	624E10000 MOBILIZATION	1.00	LS	\$800,000.00000	\$800,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$112,076.23000	\$112,076.23

Total for Group 0072: \$1,552,457.37

**Group 0073: Design Contingency Costs**

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS 25%	1.00	LS	\$5,991,925.72000	\$5,991,925.72
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00

Total for Group 0073: \$5,991,925.72

**Group 0074: Inflation Contingency**

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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Total for Group 0074: \$0.00



Macro View

										Attributes						
Acquisition	Unit (SF) or (Acreage)	X	Cost/Unit (\$\$/SF) (\$\$/Acre)	Subtotal Land Value	+	Structure Values (if Taken)	+	Damages (Loss in Value to the Residue)	=	Subtotal Structures & Damages	Total Non Labor Acquisition Costs	Parcel Count	Total Takes	Partial Takes	No. of Structures Impacted	
-Residential	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	\$0.00	0	0	0	0	
-Commercial	0.49	X	\$457,603.80	\$224,226	+	2933200	+	N/A	=	\$2,933,200.00	\$3,157,425.86	3	0	3	1	
-Industrial	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	\$0.00	0	0	0	0	
-Agricultural	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	\$0.00	0	0	0	0	
Relocation	Unit (Displacement)	X	*RHP/*RSP		+	Move Cost	+	Reestablishment	=	Total Non Labor RAP Costs	Estimate amount of time necessary to relocate all RAP parcels = (months) 18					
-Residential Owner Occupant	0	X	\$34,000		+	\$6,000			=	\$0	Estimate number of years until project wide R/W acquisition begins = 1.75					
-Residential Tenant	0	X	\$10,000		+	\$1,750			=	\$0						
-Commerical/Farm/NPO Owner	0				X	\$15,000	+	\$10,000	=	\$0						
-Commerical/Farm/NPO Tenant	0				X	\$15,000	+	\$10,000	=	\$0						
-Personal Property	0				X	\$1,000			=	\$0						
$\{((\text{Total Cost of Acquisition Cost}) \times 0.90) \times 0.025\} + \{((\text{Total of Acquisition Cost}) \times 0.15) \times 1.20\} + \{((\text{Total of Acquisition Cost}) \times 0.10) \times 1.50\} = \text{Contingency}$									Contingency (Incidentals, Admin. Review & Appropriation)		1112992.616		*RHP - Replacement Housing Payment *RSP - Rent Supplemental Payment *NPO - Non-Profit Organization			
										<b>Total Non Labor R/W Costs</b>		<b>\$4,270,418.48</b>				

**Instruction for Acquisition & Relocation Cost Estimates**

Estimate the total number of acres involved in the project and allocate those acres into the four categories shown.

Assign an average unit price for each category. These unit prices are typically taken from the auditors tax card data. Cost Estimates prepared at Step 4 (Step 7 on Major Projects) and thereafter must base unit prices on a project sales data book instead of tax card data.

Add structure values from the auditors tax cards only if the structures are taken.

Damages must be assessed by a pre-qualified expert with experience in Before & After analysis. This usually occurs at Step 4 for Minor projects (Step 6 on Major Projects) and requires some knowledge of the impacts of the project on structures.

Relocation Cost Estimates must consider the complexity of the move process. All move estimates that involve a business or a multi-tenant residential structure should use the services of a relocation Assistance professional to accurately gauge costs.

Macro View

Labor (External)	Unit (Parcels)	X	Unit Price	=	Total Cost
Titles	3	X	\$400	=	\$1,200
Appraisal -Simple	1	X	\$750	=	\$750
-Detailed	2	X	\$4,500	=	\$9,000
Appraisal Review -Simple	1	X	\$500	=	\$500
-Detailed	2	X	\$2,000	=	\$4,000
Negotiations	3	X	\$1,100	=	\$3,300
Relocations -Personal Property	0	X	\$1,500	=	\$0
-Residential	0	X	\$5,200	=	\$0
-Commercial/Farm/*NPO	0	X	\$5,600	=	\$0
Closings	3	X	\$400	=	\$1,200
Project Management	3	X	\$550	=	\$1,650
Asbestos Testing & Abatement		X		=	
<b>Total Labor Costs</b>					<b>\$21,600</b>

\*NPO = Non-Profit Organization

This R/W Cost Estimate Prepared by	Date
Chris Clemons	8/4/2010
This R/W Cost Estimate was performed at Step 6 of the PDP for MAJOR Projects using	

<b>Total Labor Costs</b>	\$21,600.00
<b>Total Non Labor R/W Costs</b>	\$4,270,418.48
<b>Inflation Adjustments</b>	\$261,813.13
<b>Total R/W Costs</b>	<b>\$4,553,831.61</b>

**Instructions for Labor Cost Estimates**

Labor costs are a function of time, distance, and talent. Labor costs estimates should reflect the complexity of the project and the talent necessary to acquire the right of way in a timely manner. The person making the cost estimate may adjust the figures given for the particular project being estimated to reflect local labor costs. It is critical that the estimate be labeled to reflect the alignment alternative, the step in the PDP process and the person(s) performing the estimate.

**Comments**

Cost/Unit were generated from auditors tax card data.

**P.D.P. R/W Cost Estimator**

## Estimate Alt I OH cont 5

Estimated Cost: \$84,839,975.26

Contingency: 51.30%

**Estimated Total: \$128,362,882.57**

*Reconstruct I-75 from Findlay to the northern terminus of the corridor*

Base Date: 07/22/10

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District: 8

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	104,667.00	SY	\$8.00000	\$837,336.00

Total for Group 0001: \$837,336.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$30.00000	\$0.00
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Total for Group 0002: \$0.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	77,557.00	CY	\$8.00000	\$620,456.00

Total for Group 0003: \$620,456.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	117,928.00	CY	\$6.00000	\$707,568.00

Total for Group 0005: \$707,568.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	40,371.00	CY	\$8.00000	\$322,968.00
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Total for Group 0007: \$322,968.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	17,612.00	FT	\$110.00000	\$1,937,320.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$1,937,320.00

Group 0009: Subgrade Treatment - Lime

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

Group 0010: Subgrade Treatment - Cement

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	136,698.00	SY	\$2.50000	\$341,745.00
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Total for Group 0010: \$341,745.00

Group 0011: Subgrade Treatment - Undercut & Backfill

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

Group 0012: Other Roadway Costs

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0028	202E35200 PIPE REMOVED, OVER 24"	0.00	FT	\$0.00000	\$0.00
0029	202E38000 GUARDRAIL REMOVED	0.00	FT	\$0.00000	\$0.00
0030	202E42206 ANCHOR ASSEMBLY REMOVED	0.00	EACH	\$0.00000	\$0.00
0031	202E58000 MANHOLE REMOVED	0.00	EACH	\$0.00000	\$0.00
0032	202E58100 CATCH BASIN REMOVED	0.00	EACH	\$0.00000	\$0.00
0033	202E75000 FENCE REMOVED	0.00	FT	\$0.00000	\$0.00
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>PROOF ROLLING</b>				
0035	204E10000	0.00	SY	\$0.81000	\$0.00
	<b>SUBGRADE COMPACTION</b>				
0036	451E30000	0.00	FT	\$0.00000	\$0.00
	<b>SPECIAL - PRESSURE RELIEF JOINT, TYPE A</b>				
0037	606E13000	3,295.00	FT	\$14.00000	\$46,130.00
	<b>GUARDRAIL, TYPE 5</b>				
0038	606E22000	0.00	EACH	\$1,411.29597	\$0.00
	<b>ANCHOR ASSEMBLY, TYPE B-98</b>				
0039	606E22010	0.00	EACH	\$1,712.52574	\$0.00
	<b>ANCHOR ASSEMBLY, TYPE E-98</b>				
0040	606E26500	0.00	EACH	\$487.23435	\$0.00
	<b>ANCHOR ASSEMBLY, TYPE T</b>				
0041	606E35000	0.00	EACH	\$969.12750	\$0.00
	<b>BRIDGE TERMINAL ASSEMBLY, TYPE 1</b>				
0042	606E35100	0.00	EACH	\$338.36354	\$0.00
	<b>BRIDGE TERMINAL ASSEMBLY, TYPE 2</b>				
0043	606E60010	0.00	EACH	\$3,439.05897	\$0.00
	<b>IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)</b>				
0044	607E15000	0.00	FT	\$0.00000	\$0.00
	<b>FENCE, TYPE 47</b>				
	<i>For Fencing</i>				
0423	304E20000	0.00	CY	\$0.00000	\$0.00
	<b>AGGREGATE BASE</b>				
	<i>For Fencing</i>				
0424	601E32100	0.00	CY	\$0.00000	\$0.00
	<b>ROCK CHANNEL PROTECTION, TYPE B WITH FILTER</b>				
	<i>For Fencing</i>				
0425	607E40500	0.00	EACH	\$731.31641	\$0.00
	<b>GATE, TYPE 47</b>				
	<i>For Fencing</i>				
0426	625E32000	0.00	EACH	\$0.00000	\$0.00
	<b>GROUND ROD</b>				
	<i>For Fencing</i>				
0466		0.00		\$0.00000	\$0.00

Total for Group 0012: \$46,130.00

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	<b>MAJOR COST DRIVERS, EROSION CONTROL</b>				
0467	659E10000	0.00	SY	\$1.00000	\$0.00
	<b>SEEDING AND MULCHING</b>				
0531	660E25000	0.00	SY	\$15.00000	\$0.00
	<b>SODDING STAKED</b>				

Total for Group 0014: \$0.00

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	<b>MAJOR COST DRIVERS, EROSION CONTROL</b>				
0469	601E32000	0.00	CY	\$75.00000	\$0.00
	<b>ROCK CHANNEL PROTECTION, TYPE A WITH FILTER</b>				

Total for Group 0015: \$0.00

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<b>MAJOR COST DRIVERS, EROSION CONTROL</b>					
0470	832E10000	1.00	LS	\$50,000.00000	\$50,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0471	832E20000	35,000.00	EACH	\$1.00000	\$35,000.00
EROSION CONTROL					

Total for Group 0016: \$85,000.00

**Group 0017: Other Erosion Control Costs**

0049	670E00700	0.00	SY	\$0.00000	\$0.00
DITCH EROSION PROTECTION					
0050	B-OC-ERCO	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, EROSION CONTROL					
0051	659E00100	0.00	EACH	\$0.00000	\$0.00
SOIL ANALYSIS TEST					
0052	659E00300	0.00	CY	\$0.00000	\$0.00
TOPSOIL					
0053	659E14000	0.00	SY	\$0.00000	\$0.00
REPAIR SEEDING AND MULCHING					
0054	659E15000	0.00	SY	\$0.71000	\$0.00
INTER-SEEDING					
0055	659E20000	0.00	TON	\$410.06813	\$0.00
COMMERCIAL FERTILIZER					
0056	659E31000	0.00	ACRE	\$0.00000	\$0.00
LIME					
0057	659E35000	0.00	MGAL	\$5.00000	\$0.00
WATER					
0058	659E40000	0.00	MSF	\$0.00000	\$0.00
MOWING					

Total for Group 0017: \$0.00

**Group 0018: Underdrains**

0059	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0062	605E05100	63,704.00	FT	\$8.00000	\$509,632.00
4" SHALLOW PIPE UNDERDRAINS					

Total for Group 0018: \$509,632.00

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0480	C-MC-DRNG	0.00	FT	\$350.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>					
0481	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0019: \$0.00

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0476	C-MC-DRNG	0.00	FT	\$550.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"*

0477	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete - Headwalls/wingwalls</i>					

Total for Group 0021: \$0.00

**Group 0022: Culverts, Type A: 10' - 20'**

0486	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0487	C-MC-DRNG	0.00	FT	\$1,400.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>					

0488	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0022: \$0.00

**Group 0024: BMP's**

0076	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

Total for Group 0024: \$0.00

**Group 0025: Closed Storm System**

0077	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0489	603E13400	11,504.00	FT	\$75.00000	\$862,800.00
30" CONDUIT, TYPE B (Average size)					

0523	604E00800	152.00	EACH	\$1,500.00000	\$228,000.00
CATCH BASIN, NO. 3A					

0524	604E31500	15.00	EACH	\$3,000.00000	\$45,000.00
MANHOLE, NO. 3					

0525	604E36601	0.00	EACH	\$1,250.00000	\$0.00
PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN					

0526	Special	0.00	LS	\$6,400,000.00000	\$0.00
Pump Station (Storm)					

0527	Special	0.00	EACH	\$5,750.00000	\$0.00
Stormceptors					

0529	Special	0.00	LS	\$109,000.00000	\$0.00
Retention basin improvements					

Total for Group 0025: \$1,135,800.00

**Group 0026: Other Drainage Costs**

0078	C-OC-DRNG	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, DRAINAGE					

Total for Group 0026: \$0.00

**Group 0027: Mainline - Travel Lanes**

0095	D-MC-PVMT	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT					

0494	D-MC-PVMT	68,870.00	SY	\$68.00000	\$4,683,160.00
13" Reinforced Concrete Pavement					
<i>Includes 6" Agg Base and Subgrade Compaction</i>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0027: \$4,683,160.00

**Group 0028: Mainline - Outside Shoulder**

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	8,030.00	SY	\$68.00000	\$546,040.00

Total for Group 0028: \$546,040.00

**Group 0030: Mainline - Inside Shoulder**

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	15,773.00	SY	\$68.00000	\$1,072,564.00

Total for Group 0030: \$1,072,564.00

**Group 0031: Ramps (including shoulders)**

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	37,642.00	SY	\$68.00000	\$2,559,656.00

Total for Group 0031: \$2,559,656.00

**Group 0032: Non - Mainline Lanes**

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	6,383.00	SY	\$41.00000	\$261,703.00

Total for Group 0032: \$261,703.00

**Group 0041: Other Pavement Costs**

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

**Group 0042: Water Works**

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

**Group 0043: Sanitary Line**

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0043: \$0.00

Group 0044: Lighting - Full Interchange

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	EACH	\$469,000.00000	\$469,000.00

Total for Group 0044: \$469,000.00

Group 0045: Lighting - Partial Interchange

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

Group 0046: Lighting - Continuous Roadway

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	9,226.00	FT	\$35.00000	\$322,910.00

Total for Group 0046: \$322,910.00

Group 0047: Other Lighting Costs

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

Group 0048: Traffic Surveillance

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	1.00	LS	\$635,388.64000	\$635,388.64
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Total for Group 0048: \$635,388.64

Group 0049: Signs

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	1.75	MILE	\$250,000.00000	\$437,500.00

Total for Group 0049: \$437,500.00

Group 0050: Pavement Marking

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	11.68	MILE	\$3,000.00000	\$35,040.00
0503	644E00200 LANE LINE	11.53	MILE	\$2,000.00000	\$23,060.00

Total for Group 0050: \$58,100.00

Group 0051: Other Traffic Control Costs

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00

Total for Group 0051: \$0.00

Group 0052: Signals - Intersections

0212	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS	3.00	EACH	\$175,000.00000	\$525,000.00
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Total for Group 0052: \$525,000.00

Group 0053: Other Traffic Signal Costs

0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0053: \$0.00

Group 0054: Landscaping

0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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Total for Group 0054: \$0.00

Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing

0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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0504	M-MC-WALL Retaining Walls	113,592.00	SF	\$135.00000	\$15,334,920.00
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Total for Group 0055: \$15,334,920.00

Group 0056: Other Retaining Wall Costs

0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0056: \$0.00

Group 0057: Building Demolition

0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0532	202E98100 REMOVAL MISC.: <i>Radio Tower</i>	0.00	EACH	\$8,500.00000	\$0.00
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0533	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	2.00	EACH	\$15,000.00000	\$30,000.00
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0534	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Commercial</i>	1.00	EACH	\$30,000.00000	\$30,000.00
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0535	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Residential</i>	0.00	EACH	\$12,000.00000	\$0.00
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0536	202E56101	0.00	EACH	\$7,500.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

BUILDING DEMOLISHED, AS PER PLAN  
*Small Residential*

Total for Group 0057: \$60,000.00

**Group 0058: Noise Barrier**

0220	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0505	P-MC-NSBR Noise Barrier	0.00	LS	\$25.00000	\$0.00

Total for Group 0058: \$0.00

**Group 0059: Other Noise Barrier Costs**

0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00

Total for Group 0059: \$0.00

**Group 0060: New Structures**

0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	176,046.00	SF	\$125.00000	\$22,005,750.00
0507	R-MC-STRC Removal of Existing Structures non-complex	0.00	SF	\$12.00000	\$0.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	100,928.00	SF	\$17.00000	\$1,715,776.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	58,771.00	SF	\$30.00000	\$1,763,130.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	28,698.00	SF	\$150.00000	\$4,304,700.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	0.00	SF	\$200.00000	\$0.00

Total for Group 0060: \$29,789,356.00

**Group 0061: Rehabilitated Structures**

0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	0.00	SF	\$45.00000	\$0.00
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Total for Group 0061: \$0.00

**Group 0062: Other Structure Costs**

0224	R-OC-STRC OTHER COSTS, STRUCTURES <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
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Total for Group 0062: \$0.00

**Group 0063: Temporary Road and Pavement Costs**

0225	S-MC-MNTC MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
Total for Group 0063:					\$0.00
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0064:					\$0.00
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0065:					\$0.00
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0066:					\$0.00
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0067:					\$0.00
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0068:					\$0.00
<b>Group 0069: Innovative Contracting Incentatives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0069:					\$0.00
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	1.75	MILE	\$500,000.00000	\$875,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
Total for Group 0070:					\$875,000.00
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
Total for Group 0071:					\$0.00
<b>Group 0072: Misc. Costs</b>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b><u>Supplemental Description</u></b>				
0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	1.00	LS	\$10,000.00000	\$10,000.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$320,871.26000	\$320,871.26
0239	614E11000 MAINTAINING TRAFFIC 5%	1.00	LS	\$1,283,485.05000	\$1,283,485.05
0240	619E16020 FIELD OFFICE, TYPE C	65.00	MNTH	\$2,500.00000	\$162,500.00
0242	624E10000 MOBILIZATION	1.00	LS	\$1,600,000.00000	\$1,600,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$320,871.26000	\$320,871.26

Total for Group 0072: \$3,697,727.57

Group 0073: Design Contingency Costs

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS 25%	1.00	LS	\$16,967,995.05000	\$16,967,995.05
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00

Total for Group 0073: \$16,967,995.05

Group 0074: Inflation Contingency

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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Total for Group 0074: \$0.00

Macro View

										Attributes						
Acquisition	Unit (SF) or (Acreage)	X	Cost/Unit (\$\$/SF) (\$\$/Acre)	Subtotal Land Value	+	Structure Values (if Taken)	+	Damages (Loss in Value to the Residue)	=	Subtotal Structures & Damages	Total Non Labor Acquisition Costs	Parcel Count	Total Takes	Partial Takes	No. of Structures Impacted	
-Residential	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	\$0.00	0	0	0	0	
-Commercial	0.25	X	\$122,978.79	\$30,745	+	355150	+	N/A	=	\$355,150.00	\$385,894.70	8	0	8	1	
-Industrial	1.16	X	\$71,861.63	\$83,359	+	242100	+	N/A	=	\$242,100.00	\$325,459.49	12	4	8	2	
-Agricultural	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	\$0.00	0	0	0	0	
Relocation	Unit (Displacement)	X	*RHP/*RSP		+	Move Cost	+	Reestablishment	=	Total Non Labor RAP Costs	Estimate amount of time necessary to relocate all RAP parcels = (months) 24					
-Residential Owner Occupant	0	X	\$34,000		+	\$6,000			=	\$0	Estimate number of years until project wide R/W acquisition begins = 2					
-Residential Tenant	0	X	\$10,000		+	\$1,750			=	\$0						
-Commerical/Farm/NPO Owner	2				X	\$15,000	+	\$10,000	=	\$50,000						
-Commerical/Farm/NPO Tenant	1				X	\$15,000	+	\$10,000	=	\$25,000						
-Personal Property	0				X	\$1,000			=	\$0						
$\{((\text{Total Cost of Acquisition Cost}) \times 0.90) \times 0.025\} + \{((\text{Total of Acquisition Cost}) \times 0.15) \times 1.20\} + \{((\text{Total of Acquisition Cost}) \times 0.10) \times 1.50\} = \text{Contingency}$									Contingency (Incidentals, Admin. Review & Appropriation)		250752.3514		*RHP - Replacement Housing Payment *RSP - Rent Supplemental Payment *NPO - Non-Profit Organization			
										<b>Total Non Labor R/W Costs</b>		<b>\$1,037,106.54</b>				

**Instruction for Acquisition & Relocation Cost Estimates**

Estimate the total number of acres involved in the project and allocate those acres into the four categories shown.

Assign an average unit price for each category. These unit prices are typically taken from the auditors tax card data. Cost Estimates prepared at Step 4 (Step 7 on Major Projects) and thereafter must base unit prices on a project sales data book instead of tax card data.

Add structure values from the auditors tax cards only if the structures are taken.

Damages must be assessed by a pre-qualified expert with experience in Before & After analysis. This usually occurs at Step 4 for Minor projects (Step 6 on Major Projects) and requires some knowledge of the impacts of the project on structures.

Relocation Cost Estimates must consider the complexity of the move process. All move estimates that involve a business or a multi-tenant residential structure should use the services of a relocation Assistance professional to accurately gauge costs.

Macro View

Labor (External)	Unit (Parcels)	X	Unit Price	=	Total Cost
Titles	20	X	\$400	=	\$8,000
Appraisal -Simple	7	X	\$750	=	\$5,250
-Detailed	13	X	\$4,500	=	\$58,500
Appraisal Review -Simple	7	X	\$500	=	\$3,500
-Detailed	13	X	\$2,000	=	\$26,000
Negotiations	20	X	\$1,100	=	\$22,000
Relocations -Personal Property	0	X	\$1,500	=	\$0
-Residential	0	X	\$5,200	=	\$0
-Commercial/Farm/*NPO	3	X	\$5,600	=	\$16,800
Closings	20	X	\$400	=	\$8,000
Project Management	20	X	\$550	=	\$11,000
Asbestos Testing & Abatement		X		=	
<b>Total Labor Costs</b>					<b>\$159,050</b>

\*NPO = Non-Profit Organization

This R/W Cost Estimate Prepared by	Date
Chris Clemons	8/9/2010
This R/W Cost Estimate was performed at Step <u>6</u> of the PDP for <u>MAJOR</u> Projects using _____	

<b>Total Labor Costs</b>	\$159,050.00
<b>Total Non Labor R/W Costs</b>	\$1,037,106.54
<b>Inflation Adjustments</b>	\$98,084.84
<b>Total R/W Costs</b>	<b>\$1,294,241.38</b>

**Instructions for Labor Cost Estimates**

Labor costs are a function of time, distance, and talent. Labor costs estimates should reflect the complexity of the project and the talent necessary to acquire the right of way in a timely manner. The person making the cost estimate may adjust the figures given for the particular project being estimated to reflect local labor costs. It is critical that the estimate be labeled to reflect the alignment alternative, the step in the PDP process and the person(s) performing the estimate.

**Comments**

Cost/Unit were generated from auditors tax card data.

## Estimate Alt I OH cont 6

Estimated Cost: \$31,450,188.58

Contingency: 57.60%

**Estimated Total: \$49,565,497.20**

*Reconstruction from north of Linn St to Findlay St*

Base Date: 07/22/10

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District: 8

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	72,055.00	SY	\$8.00000	\$576,440.00

Total for Group 0001: \$576,440.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$30.00000	\$0.00
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Total for Group 0002: \$0.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	171,489.00	CY	\$8.00000	\$1,371,912.00

Total for Group 0003: \$1,371,912.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	171,489.00	CY	\$6.00000	\$1,028,934.00

Total for Group 0005: \$1,028,934.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$8.00000	\$0.00
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Total for Group 0007: \$0.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	10,712.00	FT	\$110.00000	\$1,178,320.00



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$1,178,320.00

Group 0009: Subgrade Treatment - Lime

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

Group 0010: Subgrade Treatment - Cement

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	97,995.00	SY	\$2.50000	\$244,987.50
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Total for Group 0010: \$244,987.50

Group 0011: Subgrade Treatment - Undercut & Backfill

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

Group 0012: Other Roadway Costs

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0028	202E35200 PIPE REMOVED, OVER 24"	0.00	FT	\$0.00000	\$0.00
0029	202E38000 GUARDRAIL REMOVED	0.00	FT	\$0.00000	\$0.00
0030	202E42206 ANCHOR ASSEMBLY REMOVED	0.00	EACH	\$0.00000	\$0.00
0031	202E58000 MANHOLE REMOVED	0.00	EACH	\$0.00000	\$0.00
0032	202E58100 CATCH BASIN REMOVED	0.00	EACH	\$0.00000	\$0.00
0033	202E75000 FENCE REMOVED	0.00	FT	\$0.00000	\$0.00
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>PROOF ROLLING</b>				
0035	204E10000	0.00	SY	\$0.81000	\$0.00
	<b>SUBGRADE COMPACTION</b>				
0036	451E30000	0.00	FT	\$0.00000	\$0.00
	<b>SPECIAL - PRESSURE RELIEF JOINT, TYPE A</b>				
0037	606E13000	2,291.00	FT	\$14.00000	\$32,074.00
	<b>GUARDRAIL, TYPE 5</b>				
0038	606E22000	0.00	EACH	\$1,411.29597	\$0.00
	<b>ANCHOR ASSEMBLY, TYPE B-98</b>				
0039	606E22010	0.00	EACH	\$1,712.52574	\$0.00
	<b>ANCHOR ASSEMBLY, TYPE E-98</b>				
0040	606E26500	0.00	EACH	\$487.23435	\$0.00
	<b>ANCHOR ASSEMBLY, TYPE T</b>				
0041	606E35000	0.00	EACH	\$969.12750	\$0.00
	<b>BRIDGE TERMINAL ASSEMBLY, TYPE 1</b>				
0042	606E35100	0.00	EACH	\$338.36354	\$0.00
	<b>BRIDGE TERMINAL ASSEMBLY, TYPE 2</b>				
0043	606E60010	0.00	EACH	\$3,439.05897	\$0.00
	<b>IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)</b>				
0044	607E15000	0.00	FT	\$0.00000	\$0.00
	<b>FENCE, TYPE 47</b>				
	<i>For Fencing</i>				
0423	304E20000	0.00	CY	\$0.00000	\$0.00
	<b>AGGREGATE BASE</b>				
	<i>For Fencing</i>				
0424	601E32100	0.00	CY	\$0.00000	\$0.00
	<b>ROCK CHANNEL PROTECTION, TYPE B WITH FILTER</b>				
	<i>For Fencing</i>				
0425	607E40500	0.00	EACH	\$731.31641	\$0.00
	<b>GATE, TYPE 47</b>				
	<i>For Fencing</i>				
0426	625E32000	0.00	EACH	\$0.00000	\$0.00
	<b>GROUND ROD</b>				
	<i>For Fencing</i>				
0466		0.00		\$0.00000	\$0.00

Total for Group 0012: \$32,074.00

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	<b>MAJOR COST DRIVERS, EROSION CONTROL</b>				
0467	659E10000	0.00	SY	\$1.00000	\$0.00
	<b>SEEDING AND MULCHING</b>				
0531	660E25000	0.00	SY	\$15.00000	\$0.00
	<b>SODDING STAKED</b>				

Total for Group 0014: \$0.00

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	<b>MAJOR COST DRIVERS, EROSION CONTROL</b>				
0469	601E32000	0.00	CY	\$75.00000	\$0.00
	<b>ROCK CHANNEL PROTECTION, TYPE A WITH FILTER</b>				

Total for Group 0015: \$0.00

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<b>MAJOR COST DRIVERS, EROSION CONTROL</b>					
0470	832E10000	1.00	LS	\$50,000.00000	\$50,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0471	832E20000	42,000.00	EACH	\$1.00000	\$42,000.00
EROSION CONTROL					

Total for Group 0016: \$92,000.00

**Group 0017: Other Erosion Control Costs**

0049	670E00700	0.00	SY	\$0.00000	\$0.00
DITCH EROSION PROTECTION					
0050	B-OC-ERCO	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, EROSION CONTROL					
0051	659E00100	0.00	EACH	\$0.00000	\$0.00
SOIL ANALYSIS TEST					
0052	659E00300	0.00	CY	\$0.00000	\$0.00
TOPSOIL					
0053	659E14000	0.00	SY	\$0.00000	\$0.00
REPAIR SEEDING AND MULCHING					
0054	659E15000	0.00	SY	\$0.71000	\$0.00
INTER-SEEDING					
0055	659E20000	0.00	TON	\$410.06813	\$0.00
COMMERCIAL FERTILIZER					
0056	659E31000	0.00	ACRE	\$0.00000	\$0.00
LIME					
0057	659E35000	0.00	MGAL	\$5.00000	\$0.00
WATER					
0058	659E40000	0.00	MSF	\$0.00000	\$0.00
MOWING					

Total for Group 0017: \$0.00

**Group 0018: Underdrains**

0059	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0062	605E05100	49,472.00	FT	\$8.00000	\$395,776.00
4" SHALLOW PIPE UNDERDRAINS					

Total for Group 0018: \$395,776.00

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0480	C-MC-DRNG	0.00	FT	\$350.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>					
0481	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0019: \$0.00

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0476	C-MC-DRNG	0.00	FT	\$550.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"*

0477	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete - Headwalls/wingwalls</i>					

Total for Group 0021: \$0.00

**Group 0022: Culverts, Type A: 10' - 20'**

0486	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0487	C-MC-DRNG	0.00	FT	\$1,400.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>					

0488	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0022: \$0.00

**Group 0024: BMP's**

0076	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

Total for Group 0024: \$0.00

**Group 0025: Closed Storm System**

0077	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0489	603E13400	8,090.00	FT	\$75.00000	\$606,750.00
30" CONDUIT, TYPE B (Average size)					

0523	604E00800	71.00	EACH	\$1,500.00000	\$106,500.00
CATCH BASIN, NO. 3A					

0524	604E31500	9.00	EACH	\$3,000.00000	\$27,000.00
MANHOLE, NO. 3					

0525	604E36601	0.00	EACH	\$1,250.00000	\$0.00
PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN					

0526	Special	0.00	LS	\$6,400,000.00000	\$0.00
Pump Station (Storm)					

0527	Special	0.00	EACH	\$5,750.00000	\$0.00
Stormceptors					

0529	Special	0.00	LS	\$109,000.00000	\$0.00
Retention basin improvements					

Total for Group 0025: \$740,250.00

**Group 0026: Other Drainage Costs**

0078	C-OC-DRNG	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, DRAINAGE					

Total for Group 0026: \$0.00

**Group 0027: Mainline - Travel Lanes**

0095	D-MC-PVMT	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT					

0494	D-MC-PVMT	73,584.00	SY	\$68.00000	\$5,003,712.00
13" Reinforced Concrete Pavement					
<i>Includes 6" Agg Base and Subgrade Compaction</i>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0027: \$5,003,712.00

**Group 0028: Mainline - Outside Shoulder**

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	10,683.00	SY	\$68.00000	\$726,444.00

Total for Group 0028: \$726,444.00

**Group 0030: Mainline - Inside Shoulder**

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	13,728.00	SY	\$68.00000	\$933,504.00

Total for Group 0030: \$933,504.00

**Group 0031: Ramps (including shoulders)**

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$68.00000	\$0.00

Total for Group 0031: \$0.00

**Group 0032: Non - Mainline Lanes**

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	0.00	SY	\$41.00000	\$0.00

Total for Group 0032: \$0.00

**Group 0041: Other Pavement Costs**

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

**Group 0042: Water Works**

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

**Group 0043: Sanitary Line**

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0043: \$0.00

Group 0044: Lighting - Full Interchange

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	EACH	\$469,000.00000	\$0.00

Total for Group 0044: \$0.00

Group 0045: Lighting - Partial Interchange

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

Group 0046: Lighting - Continuous Roadway

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	4,272.00	FT	\$35.00000	\$149,520.00

Total for Group 0046: \$149,520.00

Group 0047: Other Lighting Costs

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

Group 0048: Traffic Surveillance

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	1.00	LS	\$233,107.29000	\$233,107.29
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Total for Group 0048: \$233,107.29

Group 0049: Signs

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	0.81	MILE	\$250,000.00000	\$202,500.00

Total for Group 0049: \$202,500.00

Group 0050: Pavement Marking

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	3.66	MILE	\$3,000.00000	\$10,980.00
0503	644E00200 LANE LINE	5.81	MILE	\$2,000.00000	\$11,620.00

Total for Group 0050: \$22,600.00

Group 0051: Other Traffic Control Costs

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
				Total for Group 0051: \$0.00	
<b>Group 0052: Signals - Intersections</b>					
0212	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS	1.00	LS	\$0.00000	\$0.00
				Total for Group 0052: \$0.00	
<b>Group 0053: Other Traffic Signal Costs</b>					
0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
				Total for Group 0053: \$0.00	
<b>Group 0054: Landscaping</b>					
0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
				Total for Group 0054: \$0.00	
<b>Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing</b>					
0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
0504	M-MC-WALL Retaining Walls	29,621.00	SF	\$135.00000	\$3,998,835.00
				Total for Group 0055: \$3,998,835.00	
<b>Group 0056: Other Retaining Wall Costs</b>					
0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
				Total for Group 0056: \$0.00	
<b>Group 0057: Building Demolition</b>					
0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
0532	202E98100 REMOVAL MISC.: <i>Radio Tower</i>	0.00	EACH	\$8,500.00000	\$0.00
0533	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	0.00	EACH	\$15,000.00000	\$0.00
0534	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Commercial</i>	0.00	EACH	\$30,000.00000	\$0.00
0535	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Residential</i>	0.00	EACH	\$12,000.00000	\$0.00
0536	202E56101	0.00	EACH	\$7,500.00000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

BUILDING DEMOLISHED, AS PER PLAN  
*Small Residential*

Total for Group 0057: \$0.00

**Group 0058: Noise Barrier**

0220	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0505	P-MC-NSBR Noise Barrier	42,806.00	SF	\$25.00000	\$1,070,150.00

Total for Group 0058: \$1,070,150.00

**Group 0059: Other Noise Barrier Costs**

0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00

Total for Group 0059: \$0.00

**Group 0060: New Structures**

0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	36,980.00	SF	\$125.00000	\$4,622,500.00
0507	R-MC-STRC Removal of Existing Structures non-complex	0.00	SF	\$12.00000	\$0.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	30,310.00	SF	\$17.00000	\$515,270.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	0.00	SF	\$30.00000	\$0.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	0.00	SF	\$150.00000	\$0.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	0.00	SF	\$200.00000	\$0.00

Total for Group 0060: \$5,137,770.00

**Group 0061: Rehabilitated Structures**

0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	0.00	SF	\$45.00000	\$0.00
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Total for Group 0061: \$0.00

**Group 0062: Other Structure Costs**

0224	R-OC-STRC OTHER COSTS, STRUCTURES <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
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Total for Group 0062: \$0.00

**Group 0063: Temporary Road and Pavement Costs**

0225	S-MC-MNTC MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
<b>Total for Group 0063:</b>					<b>\$0.00</b>
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0064:</b>					<b>\$0.00</b>
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0065:</b>					<b>\$0.00</b>
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0066:</b>					<b>\$0.00</b>
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0067:</b>					<b>\$0.00</b>
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0068:</b>					<b>\$0.00</b>
<b>Group 0069: Innovative Contracting Incentives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0069:</b>					<b>\$0.00</b>
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	0.81	MILE	\$500,000.00000	\$405,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
<b>Total for Group 0070:</b>					<b>\$405,000.00</b>
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
<b>Total for Group 0071:</b>					<b>\$0.00</b>
<b>Group 0072: Misc. Costs</b>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>Description</b> <b><u>Supplemental Description</u></b>				
0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	0.00	LS	\$10,000.00000	\$0.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$117,719.18000	\$117,719.18
0239	619E16020 FIELD OFFICE, TYPE C	44.00	MNTH	\$2,500.00000	\$110,000.00
0240	614E11000 MAINTAINING TRAFFIC 2%	1.00	LS	\$470,876.72000	\$470,876.72
0242	624E10000 MOBILIZATION	1.00	LS	\$800,000.00000	\$800,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$117,719.18000	\$117,719.18

Total for Group 0072: \$1,616,315.08

**Group 0073: Design Contingency Costs**

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS 25%	1.00	LS	\$6,290,037.71000	\$6,290,037.71
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00

Total for Group 0073: \$6,290,037.71

**Group 0074: Inflation Contingency**

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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Total for Group 0074: \$0.00

## Estimate Alt I OH cont 7

Estimated Cost: \$373,074,847.21

Contingency: 57.60%

**Estimated Total: \$587,965,959.20**

*OH-7 Reconstruction from the new bridge over the Ohio to north of Linn St.*

Base Date: 07/22/10

Spec Year: 10

Unit System: E

Work Type: GEN CONST: INVLVS 2 OR MOR MAJ WRK TYPE

Highway Type: 451

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Midpoint of Latitude:

Midpoint of Longitude:

District: 8

Federal/State Project Number:

Estimate Type: C1

*Prepared by Parsons Brinckerhoff on 07/22/10*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0001: Pavement Removal**

0001	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	LS	\$0.00000	\$0.00
0343	202E23000 PAVEMENT REMOVED	117,932.00	SY	\$8.00000	\$943,456.00

Total for Group 0001: \$943,456.00

**Group 0002: Excavation - Rock**

0003	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$30.00000	\$0.00
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Total for Group 0002: \$0.00

**Group 0003: Excavation - Soil**

0004	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0344	203E10000 EXCAVATION	453,980.00	CY	\$8.00000	\$3,631,840.00

Total for Group 0003: \$3,631,840.00

**Group 0004: Excavation - Hazardous**

0006	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0004: \$0.00

**Group 0005: Fill - Embankment (includes wasting excess excavation)**

0007	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0345	203E20000 EMBANKMENT	453,980.00	CY	\$6.00000	\$2,723,880.00

Total for Group 0005: \$2,723,880.00

**Group 0006: Fill - Lime Modified Soil**

0010	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0346	205E10050 LIME STABILIZED EMBANKMENT	0.00	CY	\$7.00000	\$0.00
0347	205E10300 LIME	0.00	TON	\$5.00000	\$0.00

Total for Group 0006: \$0.00

**Group 0007: Fill - Borrow**

0011	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	0.00	CY	\$8.00000	\$0.00
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Total for Group 0007: \$0.00

**Group 0008: Concrete Barrier**

0012	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0465	622E10060	22,439.00	FT	\$110.00000	\$2,468,290.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

CONCRETE BARRIER, SINGLE SLOPE, TYPE B

Total for Group 0008: \$2,468,290.00

Group 0009: Subgrade Treatment - Lime

0014	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
0348	206E10000 LIME STABILIZED SUBGRADE	0.00	SY	\$1.85000	\$0.00
0349	206E10300 LIME	0.00	TON	\$10.00000	\$0.00
0350	206E11000 CURING COAT	0.00	SY	\$1.00000	\$0.00
0351	206E20000 TEST ROLLING	0.00	HOUR	\$4.00000	\$0.00

Total for Group 0009: \$0.00

Group 0010: Subgrade Treatment - Cement

0016	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	155,020.00	SY	\$2.50000	\$387,550.00
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Total for Group 0010: \$387,550.00

Group 0011: Subgrade Treatment - Undercut & Backfill

0017	A-MC-RDWY MAJOR COST DRIVERS, ROADWAY	1.00	LS	\$0.00000	\$0.00
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Total for Group 0011: \$0.00

Group 0012: Other Roadway Costs

0019	A-OC-RDWY OTHER COSTS, ROADWAY <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
0020	201E11000 CLEARING AND GRUBBING	0.00	LS	\$856,500.00000	\$0.00
0021	201E21800 TREE REMOVED, 18" SIZE	0.00	EACH	\$250.00000	\$0.00
0022	201E23000 TREE REMOVED, 30" SIZE	0.00	EACH	\$405.00000	\$0.00
0023	201E24800 TREE REMOVED, 48" SIZE	0.00	EACH	\$772.00000	\$0.00
0026	202E11000 STRUCTURE REMOVED	0.00	LS	\$9,310.13000	\$0.00
0028	202E35200 PIPE REMOVED, OVER 24"	0.00	FT	\$0.00000	\$0.00
0029	202E38000 GUARDRAIL REMOVED	0.00	FT	\$0.00000	\$0.00
0030	202E42206 ANCHOR ASSEMBLY REMOVED	0.00	EACH	\$0.00000	\$0.00
0031	202E58000 MANHOLE REMOVED	0.00	EACH	\$0.00000	\$0.00
0032	202E58100 CATCH BASIN REMOVED	0.00	EACH	\$0.00000	\$0.00
0033	202E75000 FENCE REMOVED	0.00	FT	\$0.00000	\$0.00
0034	204E45000	0.00	HOUR	\$126.59000	\$0.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<b>PROOF ROLLING</b>				
0035	204E10000	0.00	SY	\$0.81000	\$0.00
	SUBGRADE COMPACTION				
0036	451E30000	0.00	FT	\$0.00000	\$0.00
	SPECIAL - PRESSURE RELIEF JOINT, TYPE A				
0037	606E13000	14,675.00	FT	\$14.00000	\$205,450.00
	GUARDRAIL, TYPE 5				
0038	606E22000	0.00	EACH	\$1,411.29597	\$0.00
	ANCHOR ASSEMBLY, TYPE B-98				
0039	606E22010	0.00	EACH	\$1,712.52574	\$0.00
	ANCHOR ASSEMBLY, TYPE E-98				
0040	606E26500	0.00	EACH	\$487.23435	\$0.00
	ANCHOR ASSEMBLY, TYPE T				
0041	606E35000	0.00	EACH	\$969.12750	\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 1				
0042	606E35100	0.00	EACH	\$338.36354	\$0.00
	BRIDGE TERMINAL ASSEMBLY, TYPE 2				
0043	606E60010	0.00	EACH	\$3,439.05897	\$0.00
	IMPACT ATTENUATOR, TYPE 1-98 (BIDIRECTIONAL)				
0044	607E15000	0.00	FT	\$0.00000	\$0.00
	FENCE, TYPE 47				
	<i>For Fencing</i>				
0423	304E20000	0.00	CY	\$0.00000	\$0.00
	AGGREGATE BASE				
	<i>For Fencing</i>				
0424	601E32100	0.00	CY	\$0.00000	\$0.00
	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER				
	<i>For Fencing</i>				
0425	607E40500	0.00	EACH	\$731.31641	\$0.00
	GATE, TYPE 47				
	<i>For Fencing</i>				
0426	625E32000	0.00	EACH	\$0.00000	\$0.00
	GROUND ROD				
	<i>For Fencing</i>				
0466		0.00		\$0.00000	\$0.00

Total for Group 0012: \$205,450.00

**Group 0014: Seeding & Mulching / Sodding**

0045	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0467	659E10000	26,772.00	SY	\$1.00000	\$26,772.00
	SEEDING AND MULCHING				
0531	660E25000	0.00	SY	\$15.00000	\$0.00
	SODDING STAKED				

Total for Group 0014: \$26,772.00

**Group 0015: Rock Channel Protection**

0047	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
	MAJOR COST DRIVERS, EROSION CONTROL				
0469	601E32000	0.00	CY	\$75.00000	\$0.00
	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER				

Total for Group 0015: \$0.00

**Group 0016: Erosion Control - Item 832**

0048	B-MC-ERCO	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<b>MAJOR COST DRIVERS, EROSION CONTROL</b>					
0470	832E10000	1.00	LS	\$50,000.00000	\$50,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0471	832E20000	170,000.00	EACH	\$1.00000	\$170,000.00
EROSION CONTROL					

Total for Group 0016: \$220,000.00

**Group 0017: Other Erosion Control Costs**

0049	670E00700	0.00	SY	\$0.00000	\$0.00
DITCH EROSION PROTECTION					
0050	B-OC-ERCO	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, EROSION CONTROL					
0051	659E00100	0.00	EACH	\$0.00000	\$0.00
SOIL ANALYSIS TEST					
0052	659E00300	0.00	CY	\$0.00000	\$0.00
TOPSOIL					
0053	659E14000	0.00	SY	\$0.00000	\$0.00
REPAIR SEEDING AND MULCHING					
0054	659E15000	0.00	SY	\$0.71000	\$0.00
INTER-SEEDING					
0055	659E20000	0.00	TON	\$410.06813	\$0.00
COMMERCIAL FERTILIZER					
0056	659E31000	0.00	ACRE	\$0.00000	\$0.00
LIME					
0057	659E35000	0.00	MGAL	\$5.00000	\$0.00
WATER					
0058	659E40000	0.00	MSF	\$0.00000	\$0.00
MOWING					

Total for Group 0017: \$0.00

**Group 0018: Underdrains**

0059	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0062	605E05100	93,645.00	FT	\$8.00000	\$749,160.00
4" SHALLOW PIPE UNDERDRAINS					

Total for Group 0018: \$749,160.00

**Group 0019: Culverts - Type A: < 5'**

0474	C-MC-DRNG	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0480	C-MC-DRNG	0.00	FT	\$350.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe up to 60"</i>					
0481	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0019: \$0.00

**Group 0021: Culverts, Type A: 5' - 10'**

0067	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
0476	C-MC-DRNG	0.00	FT	\$550.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

*Pipe Structures - Reinforced Concrete 5'-10' 66" to 78"*

0477	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete - Headwalls/wingwalls</i>					

Total for Group 0021: \$0.00

**Group 0022: Culverts, Type A: 10' - 20'**

0486	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0487	C-MC-DRNG	0.00	FT	\$1,400.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Pipe Structures - Reinforced Concrete Pipe 10'-20'</i>					

0488	C-MC-DRNG	0.00	EACH	\$1,500.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					
<i>Concrete Masonry</i>					

Total for Group 0022: \$0.00

**Group 0024: BMP's**

0076	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

Total for Group 0024: \$0.00

**Group 0025: Closed Storm System**

0077	C-MC-DRNG	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, DRAINAGE					

0489	603E13400	18,743.00	FT	\$75.00000	\$1,405,725.00
30" CONDUIT, TYPE B (Average size)					

0523	604E00800	196.00	EACH	\$1,500.00000	\$294,000.00
CATCH BASIN, NO. 3A					

0524	604E31500	16.00	EACH	\$3,000.00000	\$48,000.00
MANHOLE, NO. 3					

0525	604E36601	0.00	EACH	\$1,250.00000	\$0.00
PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN					

0526	Special	0.00	LS	\$6,400,000.00000	\$0.00
Pump Station (Storm)					

0527	Special	0.00	EACH	\$5,750.00000	\$0.00
Stormceptors					

0529	Special	0.00	LS	\$109,000.00000	\$0.00
Retention basin improvements					

Total for Group 0025: \$1,747,725.00

**Group 0026: Other Drainage Costs**

0078	C-OC-DRNG	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, DRAINAGE					

Total for Group 0026: \$0.00

**Group 0027: Mainline - Travel Lanes**

0095	D-MC-PVMT	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT					

0494	D-MC-PVMT	78,463.00	SY	\$68.00000	\$5,335,484.00
13" Reinforced Concrete Pavement					
<i>Includes 6" Agg Base and Subgrade Compaction</i>					



<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0027: \$5,335,484.00

**Group 0028: Mainline - Outside Shoulder**

0100	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0495	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	17,545.00	SY	\$68.00000	\$1,193,060.00

Total for Group 0028: \$1,193,060.00

**Group 0030: Mainline - Inside Shoulder**

0115	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0496	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	19,110.00	SY	\$68.00000	\$1,299,480.00

Total for Group 0030: \$1,299,480.00

**Group 0031: Ramps (including shoulders)**

0122	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0497	D-MC-PVMT 13" Reinforced Concrete Pavement <i>Includes 6" Agg base and Subgrade Compaction</i>	25,969.00	SY	\$68.00000	\$1,765,892.00

Total for Group 0031: \$1,765,892.00

**Group 0032: Non - Mainline Lanes**

0132	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
0498	D-MC-PVMT Asphalt <i>Includes 3" 448, 9" 301, 6" Agg base and Subgrade Compaction</i>	13,933.00	SY	\$41.00000	\$571,253.00

Total for Group 0032: \$571,253.00

**Group 0041: Other Pavement Costs**

0163	D-OC-PVMT OTHER COSTS, PAVEMENT	1.00	LS	\$0.00000	\$0.00
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Total for Group 0041: \$0.00

**Group 0042: Water Works**

0164	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	0.00	LS	\$0.00000	\$0.00
0165	E-OC-WATR OTHER COSTS, WATER LINE	0.00	LS	\$0.00000	\$0.00

Total for Group 0042: \$0.00

**Group 0043: Sanitary Line**

0170	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	0.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 0043: \$0.00

Group 0044: Lighting - Full Interchange

0173	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0499	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	3.00	EACH	\$469,000.00000	\$1,407,000.00

Total for Group 0044: \$1,407,000.00

Group 0045: Lighting - Partial Interchange

0288	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0045: \$0.00

Group 0046: Lighting - Continuous Roadway

0176	G-MC-LTNG MAJOR COST DRIVERS, LIGHTING	1.00	LS	\$0.00000	\$0.00
0500	G-MC-LTNG Lighting - Continuous	21,768.00	FT	\$35.00000	\$761,880.00

Total for Group 0046: \$761,880.00

Group 0047: Other Lighting Costs

0177	G-OC-LTNG OTHER COSTS, LIGHTING	0.00	LS	\$0.00000	\$0.00
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Total for Group 0047: \$0.00

Group 0048: Traffic Surveillance

0178	H-OC-SURV OTHER COSTS, TRAFFIC SURVEILLANCE	1.00	LS	\$2,848,600.19000	\$2,848,600.19
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Total for Group 0048: \$2,848,600.19

Group 0049: Signs

0179	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0501	J-MC-TRAF Signs	4.13	MILE	\$250,000.00000	\$1,032,500.00

Total for Group 0049: \$1,032,500.00

Group 0050: Pavement Marking

0200	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00
0502	644E00100 EDGE LINE	17.83	MILE	\$3,000.00000	\$53,490.00
0503	644E00200 LANE LINE	8.92	MILE	\$2,000.00000	\$17,840.00

Total for Group 0050: \$71,330.00

Group 0051: Other Traffic Control Costs

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
0208	J-OC-TRAF OTHER COSTS, TRAFFIC CONTROL	1.00	LS	\$0.00000	\$0.00

Total for Group 0051: \$0.00

Group 0052: Signals - Intersections

0212	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS	3.50	EACH	\$175,000.00000	\$612,500.00
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Total for Group 0052: \$612,500.00

Group 0053: Other Traffic Signal Costs

0213	K-OC-SGNL OTHER COSTS, SIGNALS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0053: \$0.00

Group 0054: Landscaping

0214	L-MC-LSCP MAJOR COST DRIVERS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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0215	L-OC-LSCP OTHER COSTS, LANDSCAPING	1.00	LS	\$0.00000	\$0.00
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Total for Group 0054: \$0.00

Group 0055: Retaining Walls \$125 + \$10/ft for caps, barriers and testing

0216	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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0504	M-MC-WALL Retaining Walls	145,137.00	SF	\$135.00000	\$19,593,495.00
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Total for Group 0055: \$19,593,495.00

Group 0056: Other Retaining Wall Costs

0217	M-OC-WALL OTHER COSTS, RETAINING WALLS	1.00	LS	\$0.00000	\$0.00
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Total for Group 0056: \$0.00

Group 0057: Building Demolition

0218	N-MC-DEMO MAJOR COST DRIVERS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0219	N-OC-DEMO OTHER COSTS, BUILDING DEMOLITION	1.00	LS	\$0.00000	\$0.00
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0532	202E98100 REMOVAL MISC.: <i>Radio Tower</i>	0.00	EACH	\$8,500.00000	\$0.00
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0533	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Commercial</i>	1.00	EACH	\$30,000.00000	\$30,000.00
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0534	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Small Commercial</i>	3.00	EACH	\$15,000.00000	\$45,000.00
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0535	202E56101 BUILDING DEMOLISHED, AS PER PLAN <i>Large Residential</i>	0.00	EACH	\$12,000.00000	\$0.00
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0536	202E56101	0.00	EACH	\$7,500.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

BUILDING DEMOLISHED, AS PER PLAN  
*Small Residential*

Total for Group 0057: \$75,000.00

**Group 0058: Noise Barrier**

0220	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0505	P-MC-NSBR Noise Barrier	0.00	LS	\$400.00000	\$0.00

Total for Group 0058: \$0.00

**Group 0059: Other Noise Barrier Costs**

0221	P-OC-NSBR OTHER COSTS, NOISE BARRIER	1.00	LS	\$0.00000	\$0.00
0368	P-MC-NSBR MAJOR COST DRIVERS, NOISE BARRIER	0.00	LS	\$0.00000	\$0.00

Total for Group 0059: \$0.00

**Group 0060: New Structures**

0222	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	1.00	LS	\$0.00000	\$0.00
0506	R-MC-STRC Tier 1 Structures to 25' Height	65,593.00	SF	\$125.00000	\$8,199,125.00
0507	R-MC-STRC Removal of Existing Structures non-complex	0.00	SF	\$12.00000	\$0.00
0508	R-MC-STRC Standard Removal of Existing Structures above average complex	396,141.00	SF	\$17.00000	\$6,734,397.00
0509	R-MC-STRC Removal of Existing Structures complex to very complex	267,295.00	SF	\$30.00000	\$8,018,850.00
0513	R-MC-STRC Tier 2 Structures 25' to 50' Height	631,959.00	SF	\$150.00000	\$94,793,850.00
0516	R-MC-STRC Tier 3 Structures 50' to 75' Height	591,129.00	SF	\$200.00000	\$118,225,800.00

Total for Group 0060: \$235,972,022.00

**Group 0061: Rehabilitated Structures**

0223	R-MC-STRC MAJOR COST DRIVERS, STRUCTURES	0.00	SF	\$45.00000	\$0.00
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Total for Group 0061: \$0.00

**Group 0062: Other Structure Costs**

0224	R-OC-STRC OTHER COSTS, STRUCTURES <i>Contingency</i>	0.00	LS	\$0.00000	\$0.00
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Total for Group 0062: \$0.00

**Group 0063: Temporary Road and Pavement Costs**

0225	S-MC-MNTC MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC	1.00	LS	\$0.00000	\$0.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
Total for Group 0063:					\$0.00
<b>Group 0064: Portable Concrete Barrier (PCB)</b>					
0226	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0064:					\$0.00
<b>Group 0065: Impact Attenuators</b>					
0227	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0065:					\$0.00
<b>Group 0066: Sheeting</b>					
0229	S-MC-MNTC	1.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0066:					\$0.00
<b>Group 0067: Temporary Signals</b>					
0230	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0067:					\$0.00
<b>Group 0068: Work Zone Lighting</b>					
0231	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0068:					\$0.00
<b>Group 0069: Innovative Contracting Incentatives</b>					
0232	S-MC-MNTC	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC					
Total for Group 0069:					\$0.00
<b>Group 0070: Other MOT Costs</b>					
0233	S-OC-MNTC	1.00	LS	\$0.00000	\$0.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
0512	S-OC-MNTC	4.13	MILE	\$500,000.00000	\$2,065,000.00
OTHER COSTS, MAINTENANCE OF TRAFFIC					
Total for Group 0070:					\$2,065,000.00
<b>Group 0071: Wetland Construction</b>					
0234	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
0360	T-MC-WTLD	0.00	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, WETLAND CONSTRUCTION					
Total for Group 0071:					\$0.00
<b>Group 0072: Misc. Costs</b>					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
0235	U-MC-MISC MAJOR COST DRIVERS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0236	U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS	0.00	LS	\$0.00000	\$0.00
0237	100E00300 SPECIAL - PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	1.00	LS	\$10,000.00000	\$10,000.00
0238	623E10000 CONSTRUCTION LAYOUT STAKES 0.5%	1.00	LS	\$1,438,543.10000	\$1,438,543.10
0239	614E11000 MAINTAINING TRAFFIC 2%	1.00	LS	\$5,754,172.38000	\$5,754,172.38
0240	619E16020 FIELD OFFICE, TYPE C	44.00	MNTH	\$2,500.00000	\$110,000.00
0242	624E10000 MOBILIZATION	1.00	LS	\$2,000,000.00000	\$2,000,000.00
0511	103E05000 PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND 0.5%	1.00	LS	\$1,438,543.10000	\$1,438,543.10

Total for Group 0072: \$10,751,258.58

Group 0073: Design Contingency Costs

0243	V-MC-CNTG MAJOR COST DRIVERS, CONTINGENCY COSTS 25%	1.00	LS	\$74,614,969.44000	\$74,614,969.44
0244	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	1.00	LS	\$0.00000	\$0.00

Total for Group 0073: \$74,614,969.44

Group 0074: Inflation Contingency

0266	V-OC-CNTG OTHER COSTS, CONTINGENCY COSTS	0.00	LS	\$0.00000	\$0.00
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Total for Group 0074: \$0.00

Macro View

										Attributes						
Acquisition	Unit (SF) or (Acreage)	X	Cost/Unit (\$\$/SF) (\$\$/Acre)	Subtotal Land Value	+	Structure Values (if Taken)	+	Damages (Loss in Value to the Residue)	=	Subtotal Structures & Damages	Total Non Labor Acquisition Costs	Parcel Count	Total Takes	Partial Takes	No. of Structures Impacted	
-Residential	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	\$0.00	0	0	0	0	
-Commercial	1.89	X	\$523,138.30	\$988,731	+	6684870	+	N/A	=	\$6,684,870.00	\$7,673,601.39	10	3	7	3	
-Industrial	5.85	X	\$159,395.56	\$932,464	+	3740	+	N/A	=	\$3,740.00	\$936,204.03	19	8	11	1	
-Agricultural	0	X	\$0.00	\$0	+	0	+	N/A	=	\$0.00	\$0.00	0	0	0	0	
Relocation	Unit (Displacement)	X	*RHP/*RSP		+	Move Cost	+	Reestablishment	=	Total Non Labor RAP Costs	Estimate amount of time necessary to relocate all RAP parcels = (months) 24					
-Residential Owner Occupant	0	X	\$34,000		+	\$6,000			=	\$0	Estimate number of years until project wide R/W acquisition begins = 2					
-Residential Tenant	0	X	\$10,000		+	\$1,750			=	\$0						
-Commerical/Farm/NPO Owner	3				X	\$15,000	+	\$10,000	=	\$75,000						
-Commerical/Farm/NPO Tenant	22				X	\$15,000	+	\$10,000	=	\$550,000						
-Personal Property	0				X	\$1,000			=	\$0						
$\{((\text{Total Cost of Acquisition Cost}) \times 0.90) \times 0.025\} + \{((\text{Total of Acquisition Cost}) \times 0.15) \times 1.20\} + \{((\text{Total of Acquisition Cost}) \times 0.10) \times 1.50\} = \text{Contingency}$									Contingency (Incidentals, Admin. Review & Appropriation)		3034956.408		*RHP - Replacement Housing Payment *RSP - Rent Supplemental Payment *NPO - Non-Profit Organization			
										<b>Total Non Labor R/W Costs</b>		<b>\$12,269,761.82</b>				

**Instruction for Acquisition & Relocation Cost Estimates**

Estimate the total number of acres involved in the project and allocate those acres into the four categories shown.

Assign an average unit price for each category. These unit prices are typically taken from the auditors tax card data. Cost Estimates prepared at Step 4 (Step 7 on Major Projects) and thereafter must base unit prices on a project sales data book instead of tax card data.

Add structure values from the auditors tax cards only if the structures are taken.

Damages must be assessed by a pre-qualified expert with experience in Before & After analysis. This usually occurs at Step 4 for Minor projects (Step 6 on Major Projects) and requires some knowledge of the impacts of the project on structures.

Relocation Cost Estimates must consider the complexity of the move process. All move estimates that involve a business or a multi-tenant residential structure should use the services of a relocation Assistance professional to accurately gauge costs.

Macro View

Labor (External)	Unit (Parcels)	X	Unit Price	=	Total Cost
Titles	29	X	\$400	=	\$11,600
Appraisal -Simple	4	X	\$750	=	\$3,000
-Detailed	25	X	\$4,500	=	\$112,500
Appraisal Review -Simple	4	X	\$500	=	\$2,000
-Detailed	25	X	\$2,000	=	\$50,000
Negotiations	29	X	\$1,100	=	\$31,900
Relocations -Personal Property	0	X	\$1,500	=	\$0
-Residential	0	X	\$5,200	=	\$0
-Commercial/Farm/*NPO	25	X	\$5,600	=	\$140,000
Closings	29	X	\$400	=	\$11,600
Project Management	29	X	\$550	=	\$15,950
Asbestos Testing & Abatement		X		=	
<b>Total Labor Costs</b>					<b>\$378,550</b>

\*NPO = Non-Profit Organization

This R/W Cost Estimate Prepared by	Date
Chris Clemons	8/9/2010
This R/W Cost Estimate was performed at Step <u>6</u> of the PDP for <u>MAJOR</u> Projects using _____	

<b>Total Labor Costs</b>	\$378,550.00
<b>Total Non Labor R/W Costs</b>	\$12,269,761.82
<b>Inflation Adjustments</b>	\$1,037,161.57
<b>Total R/W Costs</b>	<b>\$13,685,473.39</b>

**Instructions for Labor Cost Estimates**

Labor costs are a function of time, distance, and talent. Labor costs estimates should reflect the complexity of the project and the talent necessary to acquire the right of way in a timely manner. The person making the cost estimate may adjust the figures given for the particular project being estimated to reflect local labor costs. It is critical that the estimate be labeled to reflect the alignment alternative, the step in the PDP process and the person(s) performing the estimate.

**Comments**

Cost/Unit were generated from auditors tax card data.

**P.D.P. R/W Cost Estimator**