Estimate SCI823 PID77366

Estimated Cost: \$125,330,033.42

Contingency: 15.00%

Estimated Total: \$144,129,538.43

PHASE III: SCI-823-0.00 Preferred Hill Alternative - Four lane new construction, approx. 6.5 miles (Mainline Stations 54+11.25 (U.S. 52 Interchange) to 354+00). Construction Costs were based upon ODOT's "Procedure for Construction Budget Estimating", January 2007, and with Current Budget Price Estimates Quoted from Vendors and Major Contractors. Estimate excludes R/W and Utility Relocations. This Estimated Construction Cost is Present Worth Dollars for year 2007.

Letting Date: 11/27/07

Spec Year: 05

Unit System: E

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

Highway Type: 446 ON 301

Urban/Rural Type: RURAL CLASS

Season: SPRING

County: SCIOTO

Estimate Type: C-1

Prepared by TranSystems on 11/27/07 Checked by TranSystems on 11/27/07 Estimate: SCI823 PID77366 Ohio Department of Transportation

<u>Line # 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 0.000 SY \$0.0000 \$0.00

MAJOR COST DRIVERS, ROADWAY

Total for Group 0001: \$0.00

Group 0002: Excavation - Rock

0002 A-MC-RDWY 10,052,000.000 CY \$3.30000 \$33,171,600.00

MAJOR COST DRIVERS, ROADWAY

Item Alternate Code: H1 0161 A-OC-RDWY 932,400.000 CY \$1.10000 \$1,025,640.00

OTHER COSTS, ROADWAY

Borrow quantity is calculated by applying a swell factor of 30% to the rock excavation quantity. = (14,000.000 cy

-(10,052,000 cy * 1.3)) = 932,400 cy

Total for Group 0002: \$34,197,240.00

Group 0003: Excavation - Soil

0006 A-MC-RDWY 0.000 CY \$0.0000 \$0.00

MAJOR COST DRIVERS, ROADWAY

Did not differentiate between soil and rock excavation for this estimate.

Total for Group 0003: \$0.00

Group 0004: Excavation - Hazardous

0007 A-MC-RDWY 1.000 LS \$0.00000 \$0.00

MAJOR COST DRIVERS, ROADWAY

Total for Group 0004: \$0.00

Group 0005: Fill - Embankment

0008 A-MC-RDWY 14,000,000.000 CY \$0.60000 \$8,400,000.00

MAJOR COST DRIVERS, ROADWAY

Total for Group 0005: \$8,400,000.00

Group 0006: Fill - Lime Modified Soil

0012 A-MC-RDWY 1.000 LS \$0.0000 \$0.00

MAJOR COST DRIVERS, ROADWAY

Total for Group 0006: \$0.00

Group 0007: Fill - Borrow

0013 A-MC-RDWY 1.000 LS \$0.0000 \$0.00

MAJOR COST DRIVERS, ROADWAY

Total for Group 0007: \$0.00

Group 0008: Concrete Barrier

0014 A-MC-RDWY 29,100.000 FT \$80.00000 \$2,328,000.00

MAJOR COST DRIVERS, ROADWAY

Item Alternate Code: H1

Total for Group 0008: \$2,328,000.00

Group 0009: Subgrade Treatment - Lime

4:47:33PM

Friday, January 11, 2008 Page 2 of 11

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

<u>Description</u>

<u>Supplemental Description</u>

0016 A-MC-RDWY 1.000 LS \$0.00000 \$0.00 MAJOR COST DRIVERS, ROADWAY

Total for Group 0009: \$0.00

Group 0010: Subgrade Treatment - Cement

0017 A-MC-RDWY 1.000 LS \$0.00000 \$0.00 MAJOR COST DRIVERS, ROADWAY

Total for Group 0010: \$0.00

Group 0011: Subgrade Treatment - Undercut & Backfill

0018 A-MC-RDWY 1.000 LS \$0.00000 \$0.00

MAJOR COST DRIVERS, ROADWAY

Total for Group 0011: \$0.00

Group 0012: Other Roadway Costs

0019 A-OC-RDWY OTHER COSTS, ROADWAY Clearing & Grubbing	430.000	ACRE	\$1,500.00000	\$645,000.00
0090 A-OC-RDWY OTHER COSTS, ROADWAY Trees & Stumps Removed	250.000	ACRE	\$6,000.00000	\$1,500,000.00
0151 A-OC-RDWY OTHER COSTS, ROADWAY Mitigation	1.000	LS	\$1,387,560.00000	\$1,387,560.00
0154 A-OC-RDWY OTHER COSTS, ROADWAY GUARDRAIL - approx. 32 MI	63,022.000	FT	\$10.00000	\$630,220.00

Total for Group 0012: \$4,162,780.00

Group 0013: Seeding & Mulching / Sodding

0020 B-MC-ERCO 2,100,736.000 SY \$1.00000 \$2,100,736.00 MAJOR COST DRIVERS, EROSION CONTROL

Total for Group 0013: \$2,100,736.00

Group 0014: Rock Channel Protection

0021 B-MC-ERCO 2,984.000 CY \$50.00000 \$149,200.00

MAJOR COST DRIVERS, EROSION CONTROL

Total for Group 0014: \$149,200.00

Group 0015: Erosion Control - Item 832

0022 B-MC-ERCO 1.000 LS \$1,119,000.00000 \$1,119,000.00 MAJOR COST DRIVERS, EROSION CONTROL

Total for Group 0015: \$1,119,000.00

Group 0016: Other Erosion Control Costs

0023 B-OC-ERCO 1.000 LS \$18,650.00000 \$18,650.00

OTHER COSTS, EROSION CONTROL

Total for Group 0016: \$18,650.00

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

<u>Description</u> <u>Supplemental Description</u>

Group 0017: Underdrains

0024 C-MC-DRNG 6.043 MILE \$100,000.00000 \$604,300.00

MAJOR COST DRIVERS, DRAINAGE

four lane divided with inside and outside shoulder drainage

Total for Group 0017: \$604,300.00

Group 0018: Culverts - Type A: < 5'

0025 C-MC-DRNG 0.000 LS \$0.0000 \$0.00

MAJOR COST DRIVERS, DRAINAGE

Total for Group 0018: \$0.00

Group 0019: Culverts, Type A: 5' - 10'

0026 C-MC-DRNG 1.000 LS \$0.00000 \$0.00

MAJOR COST DRIVERS, DRAINAGE

Total for Group 0019: \$0.00

Group 0020: Culverts, Type A: 10' - 20'

0027 C-MC-DRNG 1.000 LS \$0.00000 \$0.00

MAJOR COST DRIVERS, DRAINAGE

Total for Group 0020: \$0.00

Group 0021: Median Drainage

0160 C-MC-DRNG 1.000 LS \$910,000.00000 \$910,000.00

MAJOR COST DRIVERS, DRAINAGE

All Storm Sewer System Drainage Items are Lumped into this, Including Median Drains, Catch Basins, Closed

Storm System, etc.

Total for Group 0021: \$910,000.00

Group 0022: BMP's

0032 C-MC-DRNG 1.000 LS \$0.0000 \$0.00

MAJOR COST DRIVERS, DRAINAGE

Total for Group 0022: \$0.00

Group 0023: WICK DRAINS

0162 C-OC-DRNG 3,266,275.000 LF \$1.00000 \$3,266,275.00

OTHER COSTS, DRAINAGE

Quantity is for Slocum Ave. The quantities are based on 5' wick drain spacing. (5' is the worst case scenario)

Total for Group 0023: \$3,266,275.00

Group 0024: Other Drainage Costs - CULVERTS

0034 C-OC-DRNG 1.000 LS \$11,527,000.0000 \$11,527,000.00

OTHER COSTS, DRAINAGE

Includes Costs for Special Culverts (high-fill), Cast-in-Place Concrete Culverts, and Standard Type Culverts.

Total for Group 0024: \$11,527,000.00

Group 0025: Mainline - Travel Lanes

0035 D-MC-PVMT 267,550.000 SY \$38.00000 \$10,166,900.00

MAJOR COST DRIVERS, PAVEMENT

4:47:33PM

Friday, January 11, 2008 Page 4 of 11

Estimate: SCI823 PID77366			Ohio Department of T	ransportation
Line # Item Number Description Supplemental Description	Quantity	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
Sta. 354+11.25 (U.S. 52 Interchange) to S	ita. 354+00)	Itam Altara	oto Codo: U1
0036 D-MC-PVMT 3 MAJOR COST DRIVERS, PAVEMENT U.S. 52 Ramps A & B & S.R. 140 Ramps A	3,660.000 A & B	SY		ate Code: H1 61,279,080.00
	9,250.000	SY	Item Alternat	te Code: HV2 \$351,500.00
MAJOR COST DRIVERS, PAVEMENT	•	01	ψ30.00000	ψ331,300.00
Includes Pershing, C.R. 251, and S.R. 140	,			ate Code: H3
			Total for Group 0025: \$11,797,	480.00
Group 0026: Mainline - Outside S	houlder			
0039 D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	0.000	MILE	\$0.00000	\$0.00
WAJOR GOST BRIVERS, I AVEIWENT			Total for Group 0026:	\$0.00
Group 0027: Mainline - Inside Sho	vulder			
0040 D-MC-PVMT	0.000	MILE	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT			Total for Group 0027:	00.02
			Total for Group 0027.	φυ.υυ
Group 0028: Ramps				
0041 D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.000	LS	\$0.00000	\$0.00
			Total for Group 0028:	\$0.00
Group 0029: Non - Mainline Lanes	8			
0042 D-MC-PVMT	0.000	SY	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT			Total for Group 0029:	\$0.00
				,
Group 0030: Concrete Overlay 0043 D-MC-PVMT	1.000	10	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT	1.000	LS		•
			Total for Group 0030:	\$0.00
Group 0031: Rubblize & Roll				
0044 D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT	1.000	LS	\$0.00000	\$0.00
WASON SECT BRIVERS, I AVEIVENT			Total for Group 0031:	\$0.00
Group 0032: Joint Penair				
Group 0032: Joint Repair 0045 D-MC-PVMT	1.000	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, PAVEMENT		-	·	•
			Total for Group 0032:	Φυ.υυ

Group 0033: Slab Replacement

4:47:33PM Friday, January 11, 2008

Page 5 of 11

Group 0041:	Lighting - I	-ull Interc	hange
-------------	--------------	-------------	-------

0056 G-MC-LTNG 1.000 LS \$300,000.00000 \$300,000.00
MAJOR COST DRIVERS, LIGHTING

Total for Group 0041: \$300,000.00

Group 0049: Signals - Intersections

K-MC-SGNL 1.000 LS \$80,000.00000 \$80,000.00 MAJOR COST DRIVERS, SIGNALS

SR140

4:47:33PM

Friday, January 11, 2008

Unit Price Extension Line # Item Number **Quantity Units**

Description Supplemental Description

Total for Group 0049: \$80,000.00

Group 0050: Other Traffic Signal Costs

0065 K-OC-SGNL 1.000 LS \$0.00000 \$0.00

OTHER COSTS, SIGNALS

Total for Group 0050: \$0.00

Group 0051: Landscaping

L-MC-LSCP 0066 1.000 LS \$0.00000 \$0.00 MAJOR COST DRIVERS, LANDSCAPING 0067 L-OC-LSCP 1.000 LS \$0.00000 \$0.00

OTHER COSTS, LANDSCAPING

Total for Group 0051: \$0.00

Group 0052: Retaining Walls

0068 M-MC-WALL 0.000 SF \$52.00000 \$0.00

MAJOR COST DRIVERS, RETAINING WALLS

Item Alternate Code: H1 0069 M-MC-WALL 0.000 SF \$52.00000

MAJOR COST DRIVERS, RETAINING WALLS

Retaining Wall Costs are included in the New Structure costs under Group 0057

Item Alternate Code: H4

Total for Group 0052: \$0.00

Group 0053: Other Retaining Wall Costs

M-OC-WALL 1.000 \$0.00000 LS \$0.00

OTHER COSTS, RETAINING WALLS

Total for Group 0053: \$0.00

Group 0054: Building Demolition

N-MC-DEMO 0072 1.000 LS \$360,000.00000 \$360,000.00

MAJOR COST DRIVERS, BUILDING DEMOLITION

Item Alternate Code: H1

Total for Group 0054: \$360,000.00

Group 0055: Noise Barrier

0071 P-MC-NSBR 1.000 LS \$580,000.00 \$580,000.00000

MAJOR COST DRIVERS, NOISE BARRIER

Total for Group 0055: \$580,000.00

Group 0056: Other Noise Barrier Costs

P-OC-NSBR 1.000 LS \$0.00000 \$0.00

OTHER COSTS, NOISE BARRIER

Total for Group 0056: \$0.00

Group 0057: New Structures - Cost taken from Bridge Type Study (BTS)

R-MC-STRC 0130 1.000 \$3,110,000.00000 \$3,110,000.00

4:47:33PM

Friday, January 11, 2008 Page 8 of 11

Unit Price Line # Item Number **Quantity Units** Extension

Description

Supplemental Description

MAJOR COST DRIVERS. STRUCTURES

NB Ramp over Ohio River Rd (R), Retaining wall costs included in the Unit Price.

Item Alternate Code: H1 0131 R-MC-STRC 1.000 LS \$6.210.000.00000 \$6,210,000.00

MAJOR COST DRIVERS, STRUCTURES

SB Ramp over Ohio River Rd (L) and SB over US 52 (L), Retaining wall costs included in Unit Price.

Item Alternate Code: H1 R-MC-STRC 1.000 LS \$1,820,000.00000 \$1,820,000.00 0133

MAJOR COST DRIVERS. STRUCTURES

SR 823 over Webster St. (SR 140) L/R, Retaining wall costs included in the Unit Price.

Item Alternate Code: H1 1.000 LS R-MC-STRC \$5,520,000.00000 \$5,520,000.00

MAJOR COST DRIVERS, STRUCTURES

SR 823 over CSX Railroad L/R. Retaining wall costs included in the Unit Price.

Item Alternate Code: H1 0135 R-MC-STRC 1.000 LS \$4.940.000.00000 \$4,940,000.00

MAJOR COST DRIVERS, STRUCTURES

SR 823 over Slocum L/R. Retaining wall costs included in the Unit Price.

Item Alternate Code: H1 R-MC-STRC 1.000 LS \$18,283,700.00000 0136 \$18,283,700.00

MAJOR COST DRIVERS. STRUCTURES

SR 823 over SR 335 and Little Scioto River L/R. Retaining wall costs included in the Unit Price.

Item Alternate Code: H1

Total for Group 0057: \$39,883,700.00

Group 0058: Rehabilitated Structures

R-MC-STRC 1.000 LS \$0.00000 \$0.00

MAJOR COST DRIVERS, STRUCTURES

Total for Group 0058: \$0.00

Group 0060: Temporary Road and Pavement Costs

S-MC-MNTC 0078 0.000 SY \$0.00000 \$0.00

MAJOR COST DRIVERS. MAINTENANCE OF TRAFFIC

Total for Group 0060: \$0.00

Group 0061: Portable Concrete Barrier (PCB)

S-MC-MNTC \$0.00000 \$0.00

MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC

Total for Group 0061: \$0.00

Group 0062: Impact Attenuators

S-MC-MNTC 0080 1.000 LS \$0.00000 \$0.00

MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC

Total for Group 0062: \$0.00

Group 0063: Sheeting

0081 S-MC-MNTC 1.000 LS \$0.00000 \$0.00

MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC

Total for Group 0063: \$0.00

Group 0064: Temporary Signals

4:47:33PM

Friday, January 11, 2008 Page 9 of 11

Line # Item Number Description Supplemental Description	Quantity Units	<u>Unit Price</u>	Extension
0082 S-MC-MNTC MAJOR COST DRIVERS, MAINT	1.000 LS	\$0.00000	\$0.00
WIN CORE COOL BINIVERCO, WINNING	ENVINCE OF THE WITTE	Total for Group	0064: \$0.00

Group 0065: Work Zone Lighting

0083 S-MC-MNTC	1.000 LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, MAINT	ENANCE OF TRAFFIC		
		Tatal fan Onarra (000E- 00 00

Total for Group 0065: \$0.00

Group 0066: Innovative Contracting Incentatives

0084 S-MC-MNTC 1.000 LS \$0.00000 \$0.00

MAJOR COST DRIVERS, MAINTENANCE OF TRAFFIC

Total for Group 0066: \$0.00

Group 0068: Wetland Construction

0085 T-MC-WTLD	0.746 ACRE	\$16,000.00000	\$11,936.00				
MAJOR COST DRIVERS, WETLAND CONSTRUCTION							
0086 T-OC-WTLD	6,111.000 LF	\$160.00000	\$977,760.00				
OTHER COSTS, WETLAND CONSTRUCTION							
Stream Restoration							

Total for Group 0068: \$989,696.00

Group 0069: Misc. Costs

0093 U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS Field Office	36.000	MNTH	\$2,500.00000	\$90,000.00
0094 U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS Maintaining Traffic - INCLUDES ALL MOT		LS	\$186,500.00000	\$186,500.00
0098 U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS Mobilization		LS	\$746,000.00000	\$746,000.00
0099 U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS Railroad Insurance Bond	1.000	LS	\$37,300.00000	\$37,300.00
0100 U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS bond		LS	\$620,445.71000	\$620,445.71
0115 U-OC-MISC OTHER COSTS, MISCELLANEOUS COSTS Layout Stakes	1.000	LS	\$620,445.71000	\$620,445.71
•			Total for Croup 0060:	¢2 200 604 42

Total for Group 0069: \$2,300,691.42

Group 0070: Design Contingency Costs

0087 V-MC-CNTG	1.000	LS	\$0.00000	\$0.00
MAJOR COST DRIVERS, CONTI	NGENCY COSTS			
0088 V-OC-CNTG	1.000	LS	\$0.0000	\$0.00
OTHER COSTS, CONTINGENCY	COSTS			

Total for Group 0070: \$0.00

Group 0071: Inflation Contingency

4:47:33PM

Friday, January 11, 2008

Estimate: SCI823 PID77366 Ohio Department of Transportation

Quantity Units

Line # Item Number

Description
Supplemental Description

V-OC-CNTG 1.000 LS \$0.00000 \$0.00

Unit Price

OTHER COSTS, CONTINGENCY COSTS

Not applied to this estimate since it is intended to be a 2005 Present Worth Value.

Total for Group 0071: \$0.00

Extension