

ATTACHMENT G

Preliminary Construction Cost Estimates

Estimate Newtown Alt 1

Estimated Cost:\$8,844,062.95

Contingency: 0.00%

Estimated Total: \$8,844,062.95

HAM-32-4.47 Feasibility Study
Alternative 1

Base Date: 02/01/21

Spec Year: 19

Unit System: E

Work Type: ASPHALT

Highway Type:

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Latitude of Midpoint: 390729

Longitude of Midpoint: 842031

District: 08

Federal/State Project Number: 86462

Estimate Type: C1

Prepared by Stantec on 02/11/21

<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 0010: Roadway					
0001	201E11000	13.390	ACRE	\$1,700.00000	\$22,763.00
CLEARING AND GRUBBING					
0002	202E11000	1.000	LS	\$15,000.00000	\$15,000.00
STRUCTURE REMOVED					
<i>260 ft of retaining wall at Brewer Cote</i>					
0003	202E11200	1.000	LS	\$20,000.00000	\$20,000.00
PORTIONS OF STRUCTURE REMOVED					
<i>240 ft of soldier pile wall along Little Dry Run Road</i>					
0004	203E10000	44,030.000	CY	\$13.00000	\$572,390.00
EXCAVATION					
0005	203E20000	11,366.000	CY	\$10.57800	\$120,229.55
EMBANKMENT					
0006	204E10000	20,080.000	SY	\$1.08006	\$21,687.60
SUBGRADE COMPACTION					
0007	204E30010	10,036.000	CY	\$40.00000	\$401,440.00
GRANULAR MATERIAL, TYPE B					
0008	204E50000	20,080.000	SY	\$0.78000	\$15,662.40
GEOTEXTILE FABRIC					
0009	606E15050	2,800.000	FT	\$16.67438	\$46,688.26
GUARDRAIL, TYPE MGS					
0010	606E26150	1.000	EACH	\$2,206.31691	\$2,206.32
ANCHOR ASSEMBLY, MGS TYPE E					
0011	606E26550	6.000	EACH	\$890.58356	\$5,343.50
ANCHOR ASSEMBLY, MGS TYPE T					
0012	606E35000	2.000	EACH	\$1,515.56307	\$3,031.13
BRIDGE TERMINAL ASSEMBLY, TYPE 1					
0013	607E23000	153.000	FT	\$37.56913	\$5,748.08
FENCE, TYPE CLT					
0014	607E98000	1,000.000	FT	\$45.00000	\$45,000.00
FENCE, MISC.:					
<i>Bikeway Railing</i>					
0015	608E12000	5,980.000	SF	\$6.98637	\$41,778.49
5" CONCRETE WALK					
0016	608E21000	6,541.000	SY	\$40.00000	\$261,640.00
4" ASPHALT CONCRETE WALK					
0017	609E24510	14,596.000	FT	\$22.00000	\$321,112.00
CURB, TYPE 4-C					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	Description <u>Supplemental Description</u>				
0018	609E50000 4" CONCRETE TRAFFIC ISLAND	70.000	SY	\$120.00000	\$8,400.00
0019	622E10160 CONCRETE BARRIER, SINGLE SLOPE, TYPE D	505.000	FT	\$89.11185	\$45,001.48
0020	900E11000 SPECIAL - <i>Railroad Crossing Gates</i>	0.000	EACH	\$150,000.00000	\$0.00

Total for Group 0010:\$1,975,121.81

Group 0020: Erosion Control

0021	659E10000 SEEDING AND MULCHING	32,235.000	SY	\$3.00000	\$96,705.00
0022	832E15000 STORM WATER POLLUTION PREVENTION PLAN	1.000	LS	\$15,000.00000	\$15,000.00
0023	832E15002 STORM WATER POLLUTION PREVENTION INSPECTIONS	1.000	LS	\$10,000.00000	\$10,000.00
0024	832E15010 STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	1.000	LS	\$10,000.00000	\$10,000.00
0025	832E30000 EROSION CONTROL	80,000.000	EACH	\$1.00000	\$80,000.00

Total for Group 0020:\$211,705.00

Group 0030: Environmental/Remediation

0026	T-MC-ENV MAJOR COST DRIVERS, ENVIRONMENTAL <i>Stream Mitigation</i>	255.000	FT	\$255.00000	\$65,025.00
0027	T-MC-ENV MAJOR COST DRIVERS, ENVIRONMENTAL <i>Wetland Mitigation</i>	0.028	ACRE	\$56,000.00000	\$1,568.00

Total for Group 0030:\$66,593.00

Group 0040: Drainage

0028	605E11100 6" SHALLOW PIPE UNDERDRAINS	17,272.000	FT	\$9.34266	\$161,366.42
0029	611E00510 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	400.000	FT	\$22.57249	\$9,029.00
0030	611E05900 15" CONDUIT, TYPE B	4,000.000	FT	\$85.00000	\$340,000.00
0031	611E07400 18" CONDUIT, TYPE C	2,500.000	FT	\$100.00000	\$250,000.00

<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>					
0032	611E08900 21" CONDUIT, TYPE B	1,000.000	FT	\$103.30746	\$103,307.46
0033	611E95000 10' X 5' CONDUIT, TYPE A, 706.05	50.000	FT	\$750.00000	\$37,500.00
0034	611E98150 CATCH BASIN, NO. 3	35.000	EACH	\$3,250.76078	\$113,776.63
0035	611E98180 CATCH BASIN, NO. 3A	30.000	EACH	\$2,552.64269	\$76,579.28
0036	611E99574 MANHOLE, NO. 3	20.000	EACH	\$3,000.00000	\$60,000.00

Total for Group 0040:\$1,151,558.79

Group 0050: Pavement

0037	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT <i>Full Depth</i>	20,080.000	SY	\$50.00000	\$1,004,000.00
0038	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT <i>Salvage</i>	30,080.000	SY	\$25.00000	\$752,000.00
0039	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT <i>Driveways</i>	3,900.000	SY	\$90.00000	\$351,000.00

Total for Group 0050:\$2,107,000.00

Group 0060: Water Work

0040	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	1.000	LS	\$20,000.00000	\$20,000.00
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Total for Group 0060:\$20,000.00

Group 0070: Sanitary Sewer

0041	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	1.000	LS	\$5,000.00000	\$5,000.00
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Total for Group 0070:\$5,000.00

Group 0100: Other Utilities

0042	F-MC-UTIL MAJOR COST DRIVERS, UTILITIES <i>Utility Relocation at RR Underpass</i>	1.000	LS	\$50,000.00000	\$50,000.00
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Total for Group 0100:\$50,000.00

Group 0120: Traffic Control

<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>					
0043	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL <i>Ground Mounted Signs</i>	2.000	MILE	\$20,000.00000	\$40,000.00
0044	630E97700 SIGNING, MISC.: <i>RRFB Assembly (2 signs)</i>	0.000	EACH	\$12,000.00000	\$0.00
0045	644E00100 EDGE LINE, 4"	3.680	MILE	\$2,608.74741	\$9,600.19
0046	644E00200 LANE LINE, 4"	0.790	MILE	\$1,515.63833	\$1,197.35
0047	644E00300 CENTER LINE	3.340	MILE	\$3,745.08144	\$12,508.57
0048	644E00400 CHANNELIZING LINE, 8"	3,285.000	FT	\$1.28479	\$4,220.54
0049	644E00500 STOP LINE	280.000	FT	\$5.69205	\$1,593.77
0050	644E00600 CROSSWALK LINE	745.000	FT	\$3.09786	\$2,307.91
0051	644E00700 TRANSVERSE/DIAGONAL LINE	555.000	FT	\$5.25888	\$2,918.68
0052	644E01300 LANE ARROW	88.000	EACH	\$76.51730	\$6,733.52
0053	644E01400 WORD ON PAVEMENT, 72"	20.000	EACH	\$112.42676	\$2,248.54

Total for Group 0120:\$83,329.07

Group 0130: Traffic Signals

0054	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS <i>New Traffic Signal</i>	1.000	LS	\$200,000.00000	\$200,000.00
0055	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS <i>Modify Existing Traffic Signal</i>	2.000	LS	\$100,000.00000	\$200,000.00

Total for Group 0130:\$400,000.00

Group 0150: Retaining Walls

0056	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS <i>Cast-in-Place</i>	2,100.000	SF	\$125.00000	\$262,500.00
0057	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS <i>Segmental Block</i>	1,045.000	SF	\$60.00000	\$62,700.00

<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 0150:\$325,200.00

Group 0160: Building Demolition

0058	N-MC-DEMO	1.000	LS	\$25,000.00000	\$25,000.00
MAJOR COST DRIVERS, BUILDING DEMOLITION <i>commercial building</i>					

Total for Group 0160:\$25,000.00

Group 0190: Structures 20 Foot Span and Under (Bridge Number of SFN)

0059	R-MC-STRC	1.000	EACH	\$475,000.00000	\$475,000.00
MAJOR COST DRIVERS, STRUCTURES <i>Conspan O-Series Structure (path under railroad)</i>					

Total for Group 0190:\$475,000.00

Group 0230: Incidentals

0060	614E11000	1.000	LS	\$210,000.00000	\$210,000.00
MAINTAINING TRAFFIC <i>3% of construction cost</i>					
0061	619E16020	10.000	MNTH	\$2,355.52849	\$23,555.28
FIELD OFFICE, TYPE C					
0062	623E10000	1.000	LS	\$35,000.00000	\$35,000.00
CONSTRUCTION LAYOUT STAKES AND SURVEYING <i>0.5% of construction cost</i>					
0063	624E10000	1.000	LS	\$200,000.00000	\$200,000.00
MOBILIZATION <i>per CMS 624.02-1</i>					

Total for Group 0230:\$468,555.28

Group 0240: Design Contingency

0064	V-MC-CNTG	1.000	LS	\$1,480,000.00000	\$1,480,000.00
MAJOR COST DRIVERS, CONTINGENCY COSTS <i>Design Contingency (20% of Construction Cost)</i>					

Total for Group 0240:\$1,480,000.00

Estimate Newtown Alt 2

Estimated Cost:\$9,179,162.92

Contingency: 0.00%

Estimated Total: \$9,179,162.92

HAM-32-4.47 Feasibility Study
Alternative 2

Base Date: 02/01/21

Spec Year: 19

Unit System: E

Work Type: ASPHALT

Highway Type:

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Latitude of Midpoint: 390729

Longitude of Midpoint: 842031

District: 08

Federal/State Project Number: 86462

Estimate Type: C1

Prepared by Stantec on 02/11/21

<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 0010: Roadway					
0001	201E11000	14.830	ACRE	\$1,700.00000	\$25,211.00
CLEARING AND GRUBBING					
0002	202E11000	1.000	LS	\$15,000.00000	\$15,000.00
STRUCTURE REMOVED					
<i>260 ft of retaining wall at Brewer Cote</i>					
0003	202E11200	1.000	LS	\$20,000.00000	\$20,000.00
PORTIONS OF STRUCTURE REMOVED					
<i>240 ft of soldier pile wall along Little Dry Run Road</i>					
0004	203E10000	47,890.000	CY	\$13.00000	\$622,570.00
EXCAVATION					
0005	203E20000	11,030.000	CY	\$10.64158	\$117,376.63
EMBANKMENT					
0006	204E10000	21,750.000	SY	\$1.05552	\$22,957.56
SUBGRADE COMPACTION					
0007	204E30010	14,085.000	CY	\$40.00000	\$563,400.00
GRANULAR MATERIAL, TYPE B					
0008	204E50000	21,750.000	SY	\$0.78000	\$16,965.00
GEOTEXTILE FABRIC					
0009	606E15050	2,200.000	FT	\$16.88011	\$37,136.24
GUARDRAIL, TYPE MGS					
0010	606E26150	1.000	EACH	\$2,206.31691	\$2,206.32
ANCHOR ASSEMBLY, MGS TYPE E					
0011	606E26550	4.000	EACH	\$894.64742	\$3,578.59
ANCHOR ASSEMBLY, MGS TYPE T					
0012	606E35000	2.000	EACH	\$1,515.56307	\$3,031.13
BRIDGE TERMINAL ASSEMBLY, TYPE 1					
0013	607E23000	153.000	FT	\$37.56913	\$5,748.08
FENCE, TYPE CLT					
0014	607E98000	1,000.000	FT	\$45.00000	\$45,000.00
FENCE, MISC.:					
<i>Bikeway Railing</i>					
0015	608E12000	5,795.000	SF	\$6.98637	\$40,486.01
5" CONCRETE WALK					
0016	608E21000	6,315.000	SY	\$40.00000	\$252,600.00
4" ASPHALT CONCRETE WALK					
0017	609E24510	16,476.000	FT	\$22.00000	\$362,472.00
CURB, TYPE 4-C					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	Description				
	Supplemental Description				
0018	609E50000 4" CONCRETE TRAFFIC ISLAND	90.000	SY	\$120.00000	\$10,800.00
0019	622E10160 CONCRETE BARRIER, SINGLE SLOPE, TYPE D	505.000	FT	\$89.11185	\$45,001.48
0020	900E11000 SPECIAL - Railroad Crossing Gates	0.000	EACH	\$150,000.00000	\$0.00

Total for Group 0010:\$2,211,540.04

Group 0020: Erosion Control

0021	659E10000 SEEDING AND MULCHING	31,485.000	SY	\$3.00000	\$94,455.00
0022	832E15000 STORM WATER POLLUTION PREVENTION PLAN	1.000	LS	\$15,000.00000	\$15,000.00
0023	832E15002 STORM WATER POLLUTION PREVENTION INSPECTIONS	1.000	LS	\$10,000.00000	\$10,000.00
0024	832E15010 STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	1.000	LS	\$10,000.00000	\$10,000.00
0025	832E30000 EROSION CONTROL	80,000.000	EACH	\$1.00000	\$80,000.00

Total for Group 0020:\$209,455.00

Group 0030: Environmental/Remediation

0026	T-MC-ENV MAJOR COST DRIVERS, ENVIRONMENTAL Stream Mitigation	255.000	FT	\$255.00000	\$65,025.00
0027	T-MC-ENV MAJOR COST DRIVERS, ENVIRONMENTAL Wetland Mitigation	0.028	ACRE	\$56,000.00000	\$1,568.00

Total for Group 0030:\$66,593.00

Group 0040: Drainage

0028	605E11100 6" SHALLOW PIPE UNDERDRAINS	17,180.000	FT	\$9.34694	\$160,580.43
0029	611E00510 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	400.000	FT	\$22.57249	\$9,029.00
0030	611E05900 15" CONDUIT, TYPE B	4,000.000	FT	\$85.00000	\$340,000.00
0031	611E07400 18" CONDUIT, TYPE C	2,500.000	FT	\$100.00000	\$250,000.00

<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>					
0032	611E08900 21" CONDUIT, TYPE B	1,000.000	FT	\$103.30746	\$103,307.46
0033	611E95000 10' X 5' CONDUIT, TYPE A, 706.05	50.000	FT	\$750.00000	\$37,500.00
0034	611E98150 CATCH BASIN, NO. 3	35.000	EACH	\$3,250.76078	\$113,776.63
0035	611E98180 CATCH BASIN, NO. 3A	30.000	EACH	\$2,552.64269	\$76,579.28
0036	611E99574 MANHOLE, NO. 3	20.000	EACH	\$3,000.00000	\$60,000.00

Total for Group 0040:\$1,150,772.80

Group 0050: Pavement

0037	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT <i>Full Depth</i>	21,750.000	SY	\$50.00000	\$1,087,500.00
0038	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT <i>Salvage</i>	28,490.000	SY	\$25.00000	\$712,250.00
0039	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT <i>Driveways</i>	3,863.000	SY	\$90.00000	\$347,670.00

Total for Group 0050:\$2,147,420.00

Group 0060: Water Work

0040	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	1.000	LS	\$20,000.00000	\$20,000.00
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Total for Group 0060:\$20,000.00

Group 0070: Sanitary Sewer

0041	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	1.000	LS	\$5,000.00000	\$5,000.00
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Total for Group 0070:\$5,000.00

Group 0100: Other Utilities

0042	F-MC-UTIL MAJOR COST DRIVERS, UTILITIES <i>Utility Relocation at RR Underpass</i>	1.000	LS	\$50,000.00000	\$50,000.00
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Total for Group 0100:\$50,000.00

Group 0120: Traffic Control

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
0043	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL <i>Ground Mounted Signs</i>	2.000	MILE	\$20,000.00000	\$40,000.00
0044	630E95000 SIGNING, MISC.: <i>RRFB Assembly (2 signs)</i>	0.000	LS	\$12,000.00000	\$0.00
0045	644E00100 EDGE LINE, 4"	3.600	MILE	\$2,613.45218	\$9,408.43
0046	644E00200 LANE LINE, 4"	0.780	MILE	\$1,517.99611	\$1,184.04
0047	644E00300 CENTER LINE	3.240	MILE	\$3,762.97659	\$12,192.04
0048	644E00400 CHANNELIZING LINE, 8"	3,310.000	FT	\$1.28383	\$4,249.48
0049	644E00500 STOP LINE	285.000	FT	\$5.67811	\$1,618.26
0050	644E00600 CROSSWALK LINE	1,020.000	FT	\$3.01354	\$3,073.81
0051	644E00700 TRANSVERSE/DIAGONAL LINE	555.000	FT	\$5.25888	\$2,918.68
0052	644E01300 LANE ARROW	88.000	EACH	\$76.51730	\$6,733.52
0053	644E01400 WORD ON PAVEMENT, 72"	20.000	EACH	\$112.42676	\$2,248.54

Total for Group 0120:\$83,626.80

Group 0130: Traffic Signals

0054	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS <i>New Traffic Signal</i>	1.000	LS	\$200,000.00000	\$200,000.00
0055	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS <i>Modify Existing Traffic Signal</i>	2.000	LS	\$100,000.00000	\$200,000.00

Total for Group 0130:\$400,000.00

Group 0150: Retaining Walls

0056	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS <i>Cast-in-Place</i>	2,100.000	SF	\$125.00000	\$262,500.00
0057	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS <i>Segmental Block</i>	1,045.000	SF	\$60.00000	\$62,700.00

<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 0150:\$325,200.00

Group 0160: Building Demolition

0058	N-MC-DEMO	1.000	LS	\$25,000.00000	\$25,000.00
MAJOR COST DRIVERS, BUILDING DEMOLITION <i>commercial building</i>					

Total for Group 0160:\$25,000.00

Group 0190: Structures 20 Foot Span and Under (Bridge Number of SFN)

0059	R-MC-STRC	1.000	EACH	\$475,000.00000	\$475,000.00
MAJOR COST DRIVERS, STRUCTURES <i>Conspan O-Series Structure (path under railroad)</i>					

Total for Group 0190:\$475,000.00

Group 0230: Incidentals

0060	614E11000	1.000	LS	\$220,000.00000	\$220,000.00
MAINTAINING TRAFFIC <i>3% of construction cost</i>					
0061	619E16020	10.000	MNTH	\$2,355.52849	\$23,555.28
FIELD OFFICE, TYPE C					
0062	623E10000	1.000	LS	\$36,000.00000	\$36,000.00
CONSTRUCTION LAYOUT STAKES AND SURVEYING <i>0.5% of construction cost</i>					
0063	624E10000	1.000	LS	\$200,000.00000	\$200,000.00
MOBILIZATION <i>per CMS 624.02-1</i>					

Total for Group 0230:\$479,555.28

Group 0240: Design Contingency

0064	V-MC-CNTG	1.000	LS	\$1,530,000.00000	\$1,530,000.00
MAJOR COST DRIVERS, CONTINGENCY COSTS <i>Design Contingency (20% of Construction Cost)</i>					

Total for Group 0240:\$1,530,000.00

Estimate Newtown Alt 3

Estimated Cost:\$8,571,302.40

Contingency: 0.00%

Estimated Total: \$8,571,302.40

HAM-32-4.47 Feasibility Study
Alternative 3

Base Date: 02/01/21

Spec Year: 19

Unit System: E

Work Type: ASPHALT

Highway Type:

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Latitude of Midpoint: 390729

Longitude of Midpoint: 842031

District: 08

Federal/State Project Number: 86462

Estimate Type: C1

Prepared by Stantec on 02/11/21

<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 0010: Roadway					
0001	201E11000	12.930	ACRE	\$1,700.00000	\$21,981.00
CLEARING AND GRUBBING					
0002	202E11000	1.000	LS	\$15,000.00000	\$15,000.00
STRUCTURE REMOVED <i>260 ft of retaining wall at Brewer Cote</i>					
0003	202E11200	1.000	LS	\$20,000.00000	\$20,000.00
PORTIONS OF STRUCTURE REMOVED <i>240 ft of soldier pile wall along Little Dry Run Road</i>					
0004	203E10000	34,059.000	CY	\$13.00000	\$442,767.00
EXCAVATION					
0005	203E20000	11,974.000	CY	\$10.46849	\$125,349.70
EMBANKMENT					
0006	204E10000	20,080.000	SY	\$1.08006	\$21,687.60
SUBGRADE COMPACTION					
0007	204E30010	10,036.000	CY	\$40.00000	\$401,440.00
GRANULAR MATERIAL, TYPE B					
0008	204E50000	20,080.000	SY	\$0.78000	\$15,662.40
GEOTEXTILE FABRIC					
0009	606E15050	2,800.000	FT	\$16.67438	\$46,688.26
GUARDRAIL, TYPE MGS					
0010	606E26150	1.000	EACH	\$2,206.31691	\$2,206.32
ANCHOR ASSEMBLY, MGS TYPE E					
0011	606E26550	6.000	EACH	\$890.58356	\$5,343.50
ANCHOR ASSEMBLY, MGS TYPE T					
0012	606E35000	2.000	EACH	\$1,515.56307	\$3,031.13
BRIDGE TERMINAL ASSEMBLY, TYPE 1					
0013	607E23000	303.000	FT	\$31.89491	\$9,664.16
FENCE, TYPE CLT					
0014	607E98000	1,000.000	FT	\$45.00000	\$45,000.00
FENCE, MISC.: <i>Bikeway Railing</i>					
0015	608E12000	5,980.000	SF	\$6.98637	\$41,778.49
5" CONCRETE WALK					
0016	608E21000	7,233.000	SY	\$40.00000	\$289,320.00
4" ASPHALT CONCRETE WALK					
0017	609E24510	18,100.000	FT	\$22.00000	\$398,200.00
CURB, TYPE 4-C					

<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>					
0018	609E50000	70.000	SY	\$120.00000	\$8,400.00
4" CONCRETE TRAFFIC ISLAND					
0019	622E10160	505.000	FT	\$89.11185	\$45,001.48
CONCRETE BARRIER, SINGLE SLOPE, TYPE D					
0020	900E11000	1.000	EACH	\$150,000.00000	\$150,000.00
SPECIAL - Railroad Crossing Gates					

Total for Group 0010:\$2,108,521.04

Group 0020: Erosion Control

0021	659E10000	29,315.000	SY	\$3.00000	\$87,945.00
SEEDING AND MULCHING					
0047	832E15000	1.000	LS	\$15,000.00000	\$15,000.00
STORM WATER POLLUTION PREVENTION PLAN					
0048	832E15002	1.000	LS	\$10,000.00000	\$10,000.00
STORM WATER POLLUTION PREVENTION INSPECTIONS					
0049	832E15010	1.000	LS	\$10,000.00000	\$10,000.00
STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE					
0050	832E30000	80,000.000	EACH	\$1.00000	\$80,000.00
EROSION CONTROL					

Total for Group 0020:\$202,945.00

Group 0030: Environmental/Remediation

0046	T-MC-ENV	255.000	FT	\$255.00000	\$65,025.00
MAJOR COST DRIVERS, ENVIRONMENTAL <i>Stream Mitigation</i>					
0054	T-MC-ENV	0.000	ACRE	\$56,000.00000	\$0.00
MAJOR COST DRIVERS, ENVIRONMENTAL <i>Wetland Mitigation</i>					

Total for Group 0030:\$65,025.00

Group 0040: Drainage

0022	605E11100	18,983.000	FT	\$9.26725	\$175,920.21
6" SHALLOW PIPE UNDERDRAINS					
0023	611E00510	400.000	FT	\$22.57249	\$9,029.00
6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS					
0024	611E05900	5,600.000	FT	\$85.00000	\$476,000.00
15" CONDUIT, TYPE B					
0025	611E07400	2,500.000	FT	\$100.00000	\$250,000.00
18" CONDUIT, TYPE C					

<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>					
0026	611E08900 21" CONDUIT, TYPE B	1,000.000	FT	\$103.30746	\$103,307.46
0027	611E95000 10' X 5' CONDUIT, TYPE A, 706.05	50.000	FT	\$750.00000	\$37,500.00
0028	611E98150 CATCH BASIN, NO. 3	38.000	EACH	\$3,250.76078	\$123,528.91
0051	611E98180 CATCH BASIN, NO. 3A	34.000	EACH	\$2,552.64269	\$86,789.85
0055	611E99574 MANHOLE, NO. 3	20.000	EACH	\$3,000.00000	\$60,000.00

Total for Group 0040:\$1,322,075.43

Group 0050: Pavement

0029	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT <i>Full Depth</i>	20,080.000	SY	\$50.00000	\$1,004,000.00
0030	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT <i>Salvage</i>	30,080.000	SY	\$25.00000	\$752,000.00
0031	D-MC-PVMT MAJOR COST DRIVERS, PAVEMENT <i>Driveways</i>	3,900.000	SY	\$90.00000	\$351,000.00

Total for Group 0050:\$2,107,000.00

Group 0060: Water Work

0052	E-MC-WATR MAJOR COST DRIVERS, WATER LINE	1.000	LS	\$20,000.00000	\$20,000.00
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Total for Group 0060:\$20,000.00

Group 0070: Sanitary Sewer

0053	F-MC-SANI MAJOR COST DRIVERS, SANITARY SEWER	1.000	LS	\$5,000.00000	\$5,000.00
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Total for Group 0070:\$5,000.00

Group 0100: Other Utilities

0032	F-MC-UTIL MAJOR COST DRIVERS, UTILITIES <i>Utility Relocation at RR Underpass</i>	0.000	LS	\$50,000.00000	\$0.00
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Total for Group 0100:\$0.00

Group 0120: Traffic Control

<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>					
0033	J-MC-TRAF MAJOR COST DRIVERS, TRAFFIC CONTROL <i>Ground Mounted Signs</i>	2.000	MILE	\$20,000.00000	\$40,000.00
0056	630E97700 SIGNING, MISC.: <i>RRFB Assembly (2 signs)</i>	1.000	EACH	\$12,000.00000	\$12,000.00
0057	644E00100 EDGE LINE, 4"	3.930	MILE	\$2,594.72854	\$10,197.28
0058	644E00200 LANE LINE, 4"	0.760	MILE	\$1,522.81510	\$1,157.34
0059	644E00300 CENTER LINE	3.240	MILE	\$3,762.97659	\$12,192.04
0060	644E00400 CHANNELIZING LINE, 8"	3,255.000	FT	\$1.28594	\$4,185.73
0061	644E00500 STOP LINE	235.000	FT	\$5.83190	\$1,370.50
0062	644E00600 CROSSWALK LINE	1,730.000	FT	\$2.87689	\$4,977.02
0063	644E00700 TRANSVERSE/DIAGONAL LINE	555.000	FT	\$5.25888	\$2,918.68
0064	644E01300 LANE ARROW	88.000	EACH	\$76.51730	\$6,733.52
0065	644E01400 WORD ON PAVEMENT, 72"	20.000	EACH	\$112.42676	\$2,248.54

Total for Group 0120:\$97,980.65

Group 0130: Traffic Signals

0035	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS <i>New Traffic Signal</i>	1.000	LS	\$200,000.00000	\$200,000.00
0036	K-MC-SGNL MAJOR COST DRIVERS, SIGNALS <i>Modify Existing Traffic Signal</i>	2.000	LS	\$100,000.00000	\$200,000.00

Total for Group 0130:\$400,000.00

Group 0150: Retaining Walls

0037	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS <i>Cast-in-Place</i>	2,100.000	SF	\$125.00000	\$262,500.00
0038	M-MC-WALL MAJOR COST DRIVERS, RETAINING WALLS <i>Segmental Block</i>	1,045.000	SF	\$60.00000	\$62,700.00

<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 0150:\$325,200.00

Group 0160: Building Demolition

0039	N-MC-DEMO	1.000	LS	\$25,000.00000	\$25,000.00
MAJOR COST DRIVERS, BUILDING DEMOLITION					
<i>commercial building</i>					

Total for Group 0160:\$25,000.00

Group 0190: Structures 20 Foot Span and Under (Bridge Number of SFN)

0040	R-MC-STRC	0.000	EACH	\$475,000.00000	\$0.00
MAJOR COST DRIVERS, STRUCTURES					
<i>Conspan O-Series Structure (path under railroad)</i>					

Total for Group 0190:\$0.00

Group 0230: Incidentals

0041	614E11000	1.000	LS	\$205,000.00000	\$205,000.00
MAINTAINING TRAFFIC					
<i>3% of construction cost</i>					
0042	619E16020	10.000	MNTH	\$2,355.52849	\$23,555.28
FIELD OFFICE, TYPE C					
0044	623E10000	1.000	LS	\$34,000.00000	\$34,000.00
CONSTRUCTION LAYOUT STAKES AND SURVEYING					
<i>0.5% of construction cost</i>					
0045	624E10000	1.000	LS	\$200,000.00000	\$200,000.00
MOBILIZATION					
<i>per CMS 624.02-1</i>					

Total for Group 0230:\$462,555.28

Group 0240: Design Contingency

0043	V-MC-CNTG	1.000	LS	\$1,430,000.00000	\$1,430,000.00
MAJOR COST DRIVERS, CONTINGENCY COSTS					
<i>Design Contingency (20% of Construction Cost)</i>					

Total for Group 0240:\$1,430,000.00