

**APPENDIX-A**  
**COST ESTIMATES**

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS  
PROJECT DEVELOPMENT UNIT  
PRELIMINARY COST ESTIMATE

Town of: **Seymour****FIGURE 7-1**

**Route 8 Deficiencies/Needs Study  
Interchange 22 - Near Term Alternative  
Route 67 at Wakeley Street**

Project #: **124-164**

Width:

Depth:

Type:

From Sta:

To Sta:

A length of

Feet as shown on the  
plans

Item	Est. Quant.	Unit	Unit Price	Total
Pavement; Overlay \$100tonx3"x.0575/9	15,500	SF	\$1.91	\$29,600
Pavement; Milling 0"-4" \$5/SY / 9= \$.56	15,500	SF	\$0.56	\$8,700
PAVEMENT AT \$100/TON	1,510	SF	\$5.75	\$8,700
Processed Aggregate Base [CY/\$41.95]	50	CY	\$41.95	\$2,100
		SF		
Drainage; Total Pavement Area "All New" [ Suburban \$4.00 - CBD \$5.00]		SF		
Drainage; Total Pavement Area Overlay (\$0.40/SF)		SF		
Drainage; Pipe (12" - 15" - 24" - 48") [\$55/\$65/\$80/\$210]		LF		
Drainage; Catch Basins [\$2500]		EA.		
Drainage; Double Catch Basins [\$3500]		EA.		
Drainage; Reset Catch Basins [\$750.00]		EA.		
Drainage; Culvert Ends [\$800-\$1000]		EA.		
Curbing; BCLC [\$4-\$10]		LF		
Curbing; Add 1 foot strip of pavement X length		SF		
Curbing; Concrete [\$30-\$40]		LF		
Curbing; Granite [\$45]	620	LF	\$45.00	\$27,900
Earth Exv. [<500CY/\$48; 500-2500CY/\$33; 2500-5000CY/\$25; >5000CY/\$20]	90	CY	\$48.00	\$4,300
Rock Exv. [<500CY/\$138; 500-2500CY/\$108; 2500-5000/\$82 >5000/\$58]		CY		
Borrow [<500/\$38; 500-5000/\$23; >5000/\$14]		CY		
Guide Railing; R-I or 3 Cable [\$20]		LF		
Guide Railing; R-B (350) [\$30.00]		LF		
Guide Railing; Systems 2-6A [\$100]		LF		
Guide Railing; Anchors [\$1200]		EA.		
Precast Concrete Barrier Curb (15" x 32")		LF		
Precast Concrete Barrier Curb (24" x 32")		LF		
Concrete Sidewalk [\$14.00]	315	SF	\$14.00	\$4,400
Bituminous Driveway [\$40/res;\$50/commercial]		SY		
Turf Establishment [\$3.00]		SY		
Furnishing & Placing Topsoil [\$8.00]		SY		
Sod [\$12.50]		SY		
Sedimentation Control [\$4]		LF		
Traffic Signals; New [\$100,000]		EA.		
Traffic Signals; Major Modification [\$60,000]		EA.		
Traffic Signals; Minor Modification [\$30,000]		EA.		
Other Expense		FT		
Bridge; New [\$425overH2O/\$375overRdwy]		SF		
Bridge; Deck Replacement (\$150-\$200) Deck Overlay (\$15)		SF		
Bridge; Superstructure [\$150.00-\$200.00]		SF		
Retaining Wall; Double Wall & Reinforcing Earth [\$50.00-\$60.00]		SF		
Retaining Wall; Cast-in-Place Concrete (\$80-\$130/SF)		SF		
Noise Barrier Wall-Timber [\$25.00]		SF		
<b>Contract Items</b>			<b>SUBTOTAL</b>	<b>\$85,700</b>
Clearing and Grubbing Roadway (2%)		2%		\$1,700
M & P of Traffic (7%)		7%		\$6,000
Traffic Items (3%)		3%		\$3,000
Mobilization (7.5%)		7.5%		\$6,400
Construction Staking (1%)		1%		\$1,000
Minor Items (20%)		20%		\$17,000
Inflation Factor (6% per year)		0%		\$0
			<b>CONSTRUCTION TOTALS</b>	<b>\$120,800</b>
CONTINGENCIES [< \$50,000,000/10%] [> \$50,000,000/7%]		10%		\$12,000
INCIDENTALS (<\$1million/25%, \$1-5 million/21%, \$5-10 million/15%, >\$50m/12%		25%		\$30,000
UTILITIES		<b>Yes</b>		\$0
PRELIMINARY ENGINEERING AND ENVIRONMENTAL RIGHTS OF WAY				
RAILROAD FORCE ACCOUNT				
Estimated By: Anurag Agrawal			<b>TOTAL ESTIMATED COST</b>	<b>\$162,800</b>
Checked By: Mike Sutton			<b>TOWN CASH</b>	
Date of Estimate: Aug-2010				

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS  
PROJECT DEVELOPMENT UNIT  
PRELIMINARY COST ESTIMATE

Town of: **Seymour**

FIGURE 7-2

**Route 8 Deficiencies/Needs Study  
Interchange 22 - Long Term Alternative - Alt A  
Route 67 at Wakeley Street**

Project #: **124-164**

Width:

Depth:

Type:

From Sta:

To Sta:

A length of

Feet as shown on the  
plans

Item	Est. Quant.	Unit	Unit Price	Total
Pavement; Overlay \$100tonx3"x.0575/9	55,320	SF	\$1.92	\$106,200
Pavement; Milling 0"-4" \$5/SY / 9= \$.56	55,320	SF	\$0.56	\$31,000
Pavement; \$100/TON	81,600	SF	\$5.75	\$469,200
Processed Aggregate Base [CY/\$41.95]	2,520	CY	\$41.95	\$105,700
		SF		
Drainage; Total Pavement Area "All New" [ Suburban \$4.00 - CBD \$5.00]		SF		
Drainage; Total Pavement Area Overlay (\$0.40/SF)		SF		
Drainage; Pipe (12" - 15" - 24" - 48") [\$55/\$65/\$80/\$210]		LF		
Drainage; Catch Basins [\$2500]		EA.		
Drainage; Double Catch Basins [\$3500]		EA.		
Drainage; Reset Catch Basins [\$750.00]		EA.		
Drainage; Culvert Ends [\$800-\$1000]		EA.		
Curbing; BCLC [\$4-\$10]		LF		
Curbing; Add 1 foot strip of pavement X length		SF		
Curbing; Concrete [\$30-\$40]		LF		
Curbing; Granite [\$45]	5,300	LF	\$45.00	\$238,500
Earth Exv. [<500CY/\$48; 500-2500CY/\$33; 2500-5000CY/\$25; >5000CY/\$20]	4,800	CY	\$25.00	\$120,000
Rock Exv. [<500CY/\$138; 500-2500CY/\$108; 2500-5000/\$82 >5000/\$58]		CY		
Borrow [<500/\$38; 500-5000/\$23; >5000/\$14]		CY		
Guide Railing; R-I or 3 Cable [\$20]		LF		
Guide Railing; R-B (350) [\$30.00]		LF		
Guide Railing; Systems 2-6A [\$100]		LF		
Guide Railing; Anchors [\$1200]		EA.		
Precast Concrete Barrier Curb (15" x 32")	1,000	LF	\$50.00	\$50,000
Precast Concrete Barrier Curb (24" x 32")		LF		
Concrete Sidewalk [\$14.00]	18,250	SF	\$14.00	\$255,500
Bituminous Driveway [\$40/res;\$50/commercial]	120	SY	\$50.00	\$6,000
Turf Establishment [\$3.00]	1,000	SY	\$3.00	\$3,000
Furnishing & Placing Topsoil [\$8.00]		SY		
Sod [\$12.50]		SY		
Sedimentation Control [\$4]	1,650	LF	\$4.00	\$6,600
Traffic Signals; New [\$100,000]		EA.		
Traffic Signals; Major Modification [\$60,000]	1.0	EA.	\$60,000	\$60,000
Traffic Signals; Minor Modification [\$30,000]		EA.		
Other Expense		FT		
Bridge; New [\$425overH2O/\$375overRdwy]		SF		
Bridge; Deck Replacement (\$150-\$200) Deck Overlay (\$15)		SF		
Bridge; Superstructure [\$150.00-\$200.00]		SF		
Retaining Wall; Double Wall & Reinforcing Earth [\$50.00-\$60.00]		SF		
Retaining Wall; Cast-in-Place Concrete (\$80-\$130/SF)	6,600	SF	\$130.00	\$858,000
Noise Barrier Wall-Timber [\$25.00]		SF		
<b>Contract Items</b>			<b>SUBTOTAL</b>	<b>\$2,309,700</b>
Clearing and Grubbing Roadway (2%)		2%		\$46,200
M & P of Traffic (7%)		7%		\$162,000
Traffic Items (3%)		3%		\$69,000
Mobilization (7.5%)		7.5%		\$173,200
Construction Staking (1%)		1%		\$23,000
Minor Items (20%)		20%		\$462,000
Inflation Factor (6% per year)		0%		\$0
			<b>CONSTRUCTION TOTALS</b>	<b>\$3,245,100</b>
CONTINGENCIES [< \$50,000,000/10%] [> \$50,000,000/7%]		10%		\$325,000
INCIDENTALS (<\$1million/25%, \$1-5 million/21%, \$5-10 million/15%, >\$50m/12%)		25%		\$811,000
UTILITIES			<b>Yes</b>	\$0
PRELIMINARY ENGINEERING AND ENVIRONMENTAL RIGHTS OF WAY (excluding gravel extraction site)				\$2,025,000
RAILROAD FORCE ACCOUNT				
Estimated By: Anurag Agrawal			<b>TOTAL ESTIMATED COST</b>	<b>\$6,406,100</b>
Checked By: Mike Sutton			<b>TOWN CASH</b>	
Date of Estimate: Nov-2010				

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS  
PROJECT DEVELOPMENT UNIT  
PRELIMINARY COST ESTIMATE

Town of: **Seymour****FIGURE 7-3**Project #: **124-164**

Width:

Depth:

Type:

From Sta:

To Sta:

A length of

Feet as shown on the  
plans

**Route 8 Deficiencies/Needs Study  
Interchange 22 - Near Term Alternative  
Route 115 at Route 313**

Item	Est. Quant.	Unit	Unit Price	Total
Pavement; Overlay \$100tonx3"x.0575/9		SF		
Pavement; Milling 0"-4" \$5/SY / 9= \$.56		SF		
PAVEMENT AT \$100/TON		SF		
		SF		
		SF		
Drainage; Total Pavement Area "All New" [ Suburban \$4.00 - CBD \$5.00]		SF		
Drainage; Total Pavement Area Overlay (\$0.40/SF)		SF		
Drainage; Pipe (12" - 15" - 24" - 48") [\$55/\$65/\$80/\$210]		LF		
Drainage; Catch Basins [\$2500]		EA.		
Drainage; Double Catch Basins [\$3500]		EA.		
Drainage; Reset Catch Basins [\$750.00]		EA.		
Drainage; Culvert Ends [\$800-\$1000]		EA.		
Curbing; BCLC [\$4-\$10]		LF		
Curbing; Add 1 foot strip of pavement X length		SF		
Curbing; Concrete [\$30-\$40]		LF		
Curbing; Granite [\$45]		LF		
Earth Exv. [<500CY/\$48; 500-2500CY/\$33; 2500-5000CY/\$25; >5000CY/\$20]		CY		
Rock Exv. [<500CY/\$138; 500-2500CY/\$108; 2500-5000/\$82 >5000/\$58]		CY		
Borrow [<500/\$38; 500-5000/\$23; >5000/\$14]		CY		
Guide Railing; R-I or 3 Cable [\$20]		LF		
Guide Railing; R-B (350) [\$30.00]		LF		
Guide Railing; Systems 2-6A [\$100]		LF		
Guide Railing; Anchors [\$1200]		EA.		
Precast Concrete Barrier Curb (15" x 32")		LF		
Precast Concrete Barrier Curb (24" x 32")		LF		
Concrete Sidewalk [\$14.00]		SF		
Bituminous Driveway [\$40/res;\$50/commercial]		SY		
Turf Establishment [\$3.00]		SY		
Furnishing & Placing Topsoil [\$8.00]		SY		
Sod [\$12.50]		SY		
Sedimentation Control [\$4]		LF		
Traffic Signals; New [\$100,000]	1.0	EA.	\$20,000	\$20,000
Traffic Signals; Major Modification [\$60,000]		EA.		
Traffic Signals; Minor Modification [\$30,000]		EA.		
Other Expense		FT		
Bridge; New [\$425overH2O/\$375overRdwy]		SF		
Bridge; Deck Replacement (\$150-\$200) Deck Overlay (\$15)		SF		
Bridge; Superstructure [\$150.00-\$200.00]		SF		
Retaining Wall; Double Wall & Reinforcing Earth [\$50.00-\$60.00]		SF		
Retaining Wall; Cast-in-Place Concrete (\$80-\$130/SF)		SF		
Noise Barrier Wall-Timber [\$25.00]		SF		
<b>Contract Items</b>			<b>SUBTOTAL</b>	<b>\$20,000</b>
Clearing and Grubbing Roadway (2%)	2%			\$400
M & P of Traffic (7%)	7%			\$1,000
Traffic Items (3%)	3%			\$1,000
Mobilization (7.5%)	7.5%			\$1,500
Construction Staking (1%)	1%			\$0
Minor Items (20%)	20%			\$4,000
Inflation Factor (6% per year)	0%			\$0
			<b>CONSTRUCTION TOTALS</b>	<b>\$27,900</b>
CONTINGENCIES [< \$50,000,000/10%] [> \$50,000,000/7%]	10%			\$3,000
INCIDENTALS (<\$1million/25%, \$1-5 million/21%, \$5-10 million/15%, >\$50m/12%	25%			\$7,000
UTILITIES				\$0
PRELIMINARY ENGINEERING AND ENVIRONMENTAL RIGHTS OF WAY				
RAILROAD FORCE ACCOUNT				
Estimated By: Anurag Agrawal			<b>TOTAL ESTIMATED COST</b>	<b>\$37,900</b>
Checked By: Mike Sutton			<b>TOWN CASH</b>	
Date of Estimate: Dec-2010				

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS  
PROJECT DEVELOPMENT UNIT  
PRELIMINARY COST ESTIMATE

Town of: **Seymour****FIGURE 7-4**Project #: **124-164**

Width:

Depth:

Type:

From Sta:

To Sta:

A length of

Feet as shown on the  
plans

**Route 8 Deficiencies/Needs Study  
Interchange 22 - Long Term Alternative  
Route 115 at Route 313**

Item	Est. Quant.	Unit	Unit Price	Total
Pavement; Overlay \$100tonx3"x.0575/9	4,000	SF	\$1.92	\$7,700
Pavement; Milling 0"-4" \$5/SY / 9= \$.56	4,000	SF	\$0.56	\$2,200
PAVEMENT AT \$100/TON	17,500	SF	\$5.75	\$100,600
Processed Aggregate Base [CY/\$41.95]	650	CY	\$41.95	\$27,300
		SF		
Drainage; Total Pavement Area "All New" [ Suburban \$4.00 - CBD \$5.00]		SF		
Drainage; Total Pavement Area Overlay (\$0.40/SF)		SF		
Drainage; Pipe (12" - 15" - 24" - 48") [\$55/\$65/\$80/\$210]		LF		
Drainage; Catch Basins [\$2500]		EA.		
Drainage; Double Catch Basins [\$3500]		EA.		
Drainage; Reset Catch Basins [\$750.00]		EA.		
Drainage; Culvert Ends [\$800-\$1000]		EA.		
Curbing; BCLC [\$4-\$10]		LF		
Curbing; Add 1 foot strip of pavement X length		SF		
Curbing; Concrete [\$30-\$40]		LF		
Curbing; Granite [\$45]	1,000	LF	\$45.00	\$45,000
Earth Exv. [<500CY/\$48; 500-2500CY/\$33; 2500-5000CY/\$25; >5000CY/\$20]	1,250	CY	\$33.00	\$41,300
Rock Exv. [<500CY/\$138; 500-2500CY/\$108; 2500-5000/\$82 >5000/\$58]		CY		
Borrow [<500/\$38; 500-5000/\$23; >5000/\$14]		CY		
Guide Railing; R-I or 3 Cable [\$20]		LF		
Guide Railing; R-B (350) [\$30.00]		LF		
Guide Railing; Systems 2-6A [\$100]		LF		
Guide Railing; Anchors [\$1200]		EA.		
Precast Concrete Barrier Curb (15" x 32")		LF		
Precast Concrete Barrier Curb (24" x 32")		LF		
Concrete Sidewalk [\$14.00]	2,600	SF	\$14.00	\$36,400
Bituminous Driveway [\$40/res;\$50/commercial]		SY		
Turf Establishment [\$3.00]	600	SY	\$3.00	\$1,800
Furnishing & Placing Topsoil [\$8.00]		SY		
Sod [\$12.50]		SY		
Sedimentation Control [\$4]		LF		
Traffic Signals; New Flashing Signal Only [\$20,000]	1.0	EA.	\$20,000	\$20,000
Traffic Signals; Major Modification [\$60,000]		EA.		
Traffic Signals; Minor Modification [\$30,000]	1.0	EA.	\$30,000	\$30,000
Other Expense		FT		
Bridge; New [\$425overH2O/\$375overRdwy]	2,550	SF	\$375.00	\$956,300
Bridge; Deck Replacement (\$150-\$200) Deck Overlay (\$15)		SF		
Bridge; Superstructure [\$150.00-\$200.00]		SF		
Retaining Wall; Double Wall & Reinforcing Earth [\$50.00-\$60.00]		SF		
Retaining Wall; Cast-in-Place Concrete (\$80-\$130/SF)	6,500	SF	\$130.00	\$845,000
Noise Barrier Wall-Timber [\$25.00]		SF		
<b>Contract Items</b>			<b>SUBTOTAL</b>	<b>\$2,113,600</b>
Clearing and Grubbing Roadway (2%)		2%		\$42,300
M & P of Traffic (7%)		7%		\$148,000
Traffic Items (3%)		3%		\$63,000
Mobilization (7.5%)		7.5%		\$158,500
Construction Staking (1%)		1%		\$21,000
Minor Items (20%)		20%		\$423,000
Inflation Factor (6% per year)		0%		\$0
			<b>CONSTRUCTION TOTALS</b>	<b>\$2,969,400</b>
CONTINGENCIES [< \$50,000,000/10%] [> \$50,000,000/7%]		10%		\$297,000
INCIDENTALS (<\$1million/25%, \$1-5 million/21%, \$5-10 million/15%, >\$50m/12%		25%		\$742,000
UTILITIES		<b>Yes</b>		\$0
PRELIMINARY ENGINEERING AND ENVIRONMENTAL RIGHTS OF WAY				
RAILROAD FORCE ACCOUNT				
Estimated By: Anurag Agrawal	<b>TOTAL ESTIMATED COST</b>			<b>\$4,008,400</b>
Checked By: Mike Sutton	<b>TOWN CASH</b>			
Date of Estimate: Aug-2010				

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS  
PROJECT DEVELOPMENT UNIT  
PRELIMINARY COST ESTIMATE

Town of: **Seymour****FIGURE 7-5**Project #: **124-164**

Width:

Depth:

Type:

From Sta:

To Sta:

A length of

Feet as shown on the  
plans

**Route 8 Deficiencies/Needs Study  
Interchange 22 - Medium Term Alternative  
Derby Avenue at Route 313/ West Street**

Item	Est. Quant.	Unit	Unit Price	Total
Pavement; Overlay \$100tonx3"x.0575/9		SF		
Pavement; Milling 0"-4" \$5/SY / 9= \$.56		SF		
PAVEMENT AT \$100/TON	8,100	SF	\$5.75	\$46,600
Processed Aggregate Base [CY/\$41.95]	250	CY	\$41.95	\$10,500
		SF		
Drainage; Total Pavement Area "All New" [ Suburban \$4.00 - CBD \$5.00]		SF		
Drainage; Total Pavement Area Overlay (\$0.40/SF)		SF		
Drainage; Pipe (12" - 15" - 24" - 48") [\$55/\$65/\$80/\$210]		LF		
Drainage; Catch Basins [\$2500]		EA.		
Drainage; Double Catch Basins [\$3500]		EA.		
Drainage; Reset Catch Basins [\$750.00]		EA.		
Drainage; Culvert Ends [\$800-\$1000]		EA.		
Curbing; BCLC [\$4-\$10]		LF		
Curbing; Add 1 foot strip of pavement X length		SF		
Curbing; Concrete [\$30-\$40]		LF		
Curbing; Granite [\$45]	550	LF	\$45.00	\$24,800
Earth Exv. [<500CY/\$48; 500-2500CY/\$33; 2500-5000CY/\$25; >5000CY/\$20]	475	CY	\$48.00	\$22,800
Rock Exv. [<500CY/\$138; 500-2500CY/\$108; 2500-5000/\$82 >5000/\$58]		CY		
Borrow [<500/\$38; 500-5000/\$23; >5000/\$14]		CY		
Guide Railing; R-I or 3 Cable [\$20]		LF		
Guide Railing; R-B (350) [\$30.00]		LF		
Guide Railing; Systems 2-6A [\$100]		LF		
Guide Railing; Anchors [\$1200]		EA.		
Precast Concrete Barrier Curb (15" x 32")		LF		
Precast Concrete Barrier Curb (24" x 32")		LF		
Concrete Sidewalk [\$14.00]	3,275	SF	\$14.00	\$45,900
Bituminous Driveway [\$40/res;\$50/commercial]		SY		
Turf Establishment [\$3.00]		SY		
Furnishing & Placing Topsoil [\$8.00]		SY		
Sod [\$12.50]		SY		
Sedimentation Control [\$4]		LF		
Traffic Signals; New [\$100,000]		EA.		
Traffic Signals; Major Modification [\$60,000]		EA.		
Traffic Signals; Minor Modification [\$30,000]	1.0	EA.	\$30,000	\$30,000
Other Expense		FT		
Bridge; New [\$425overH2O/\$375overRdwy]		SF		
Bridge; Deck Replacement (\$150-\$200) Deck Overlay (\$15)		SF		
Bridge; Superstructure [\$150.00-\$200.00]		SF		
Retaining Wall; Double Wall & Reinforcing Earth [\$50.00-\$60.00]		SF		
Retaining Wall; Cast-in-Place Concrete (\$80-\$130/SF)		SF		
Noise Barrier Wall-Timber [\$25.00]		SF		
<b>Contract Items</b>			<b>SUBTOTAL</b>	<b>\$180,600</b>
Clearing and Grubbing Roadway (2%)		2%		\$3,600
M & P of Traffic (7%)		7%		\$13,000
Traffic Items (3%)		3%		\$5,000
Mobilization (7.5%)		7.5%		\$13,500
Construction Staking (1%)		1%		\$2,000
Minor Items (20%)		20%		\$36,000
Inflation Factor (6% per year)		0%		\$0
			<b>CONSTRUCTION TOTALS</b>	<b>\$253,700</b>
CONTINGENCIES [< \$50,000,000/10%] [> \$50,000,000/7%]		10%		\$25,000
INCIDENTALS (<\$1million/25%, \$1-5 million/21%, \$5-10 million/15%, >\$50m/12%)		25%		\$63,000
UTILITIES	<b>Yes</b>			\$0
PRELIMINARY ENGINEERING AND ENVIRONMENTAL RIGHTS OF WAY				\$50,000
RAILROAD FORCE ACCOUNT				
Estimated By: Anurag Agrawal	<b>TOTAL ESTIMATED COST</b>			<b>\$391,700</b>
Checked By: Mike Sutton				<b>TOWN CASH</b>
Date of Estimate: Aug-2010				

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS  
PROJECT DEVELOPMENT UNIT  
PRELIMINARY COST ESTIMATE

Town of: **Seymour**

FIGURE 7-6

**Route 8 Deficiencies/Needs Study**  
**Interchange 22 - Near Term Alternative - Alt A**  
**Pearl Street at Route 313**

Project #: **124-164**

Width:

Depth:

Type:

From Sta:

To Sta:

A length of

Feet as shown on the  
plans

Item	Est. Quant.	Unit	Unit Price	Total
Pavement; Overlay \$100tonx3"x.0575/9	28,500	SF	\$1.92	\$54,700
Pavement; Milling 0"-4" \$5/SY / 9= \$.56	28,500	SF	\$0.56	\$16,000
PAVEMENT AT \$100/TON		SF		
		SF		
		SF		
Drainage; Total Pavement Area "All New" [ Suburban \$4.00 - CBD \$5.00]		SF		
Drainage; Total Pavement Area Overlay (\$0.40/SF)		SF		
Drainage; Pipe (12" - 15" - 24" - 48") [\$55/\$65/\$80/\$210]		LF		
Drainage; Catch Basins [\$2500]		EA.		
Drainage; Double Catch Basins [\$3500]		EA.		
Drainage; Reset Catch Basins [\$750.00]		EA.		
Drainage; Culvert Ends [\$800-\$1000]		EA.		
Curbing; BCLC [\$4-\$10]		LF		
Curbing; Add 1 foot strip of pavement X length		SF		
Curbing; Concrete [\$30-\$40]		LF		
Curbing; Granite [\$45]	1,250	LF	\$45.00	\$56,300
Earth Exv. [<500CY/\$48; 500-2500CY/\$33; 2500-5000CY/\$25; >5000CY/\$20]		CY		
Rock Exv. [<500CY/\$138; 500-2500CY/\$108; 2500-5000/\$82 >5000/\$58]		CY		
Borrow [<500/\$38; 500-5000/\$23; >5000/\$14]		CY		
Guide Railing; R-I or 3 Cable [\$20]		LF		
Guide Railing; R-B (350) [\$30.00]		LF		
Guide Railing; Systems 2-6A [\$100]		LF		
Guide Railing; Anchors [\$1200]		EA.		
Precast Concrete Barrier Curb (15" x 32")		LF		
Precast Concrete Barrier Curb (24" x 32")		LF		
Concrete Sidewalk [\$14.00]	8,750	SF	\$14.00	\$122,500
Bituminous Driveway [\$40/res;\$50/commercial]		SY		
Turf Establishment [\$3.00]		SY		
Furnishing & Placing Topsoil [\$8.00]		SY		
Sod [\$12.50]		SY		
Sedimentation Control [\$4]		LF		
Traffic Signals; New [\$100,000]		EA.		
Traffic Signals; Major Modification [\$60,000]		EA.		
Traffic Signals; Minor Modification [\$30,000]	1.0	EA.	\$30,000	\$30,000
Other Expense		FT		
Bridge; New [\$425overH2O/\$375overRdwy]		SF		
Bridge; Deck Replacement (\$150-\$200) Deck Overlay (\$15)		SF		
Bridge; Superstructure [\$150.00-\$200.00]		SF		
Retaining Wall; Double Wall & Reinforcing Earth [\$50.00-\$60.00]		SF		
Retaining Wall; Cast-in-Place Concrete (\$80-\$130/SF)		SF		
Noise Barrier Wall-Timber [\$25.00]		SF		
<b>Contract Items</b>			<b>SUBTOTAL</b>	<b>\$279,500</b>
Clearing and Grubbing Roadway (2%)		2%		\$5,600
M & P of Traffic (7%)		7%		\$20,000
Traffic Items (3%)		3%		\$8,000
Mobilization (7.5%)		7.5%		\$21,000
Construction Staking (1%)		1%		\$3,000
Minor Items (20%)		20%		\$56,000
Inflation Factor (6% per year)		0%		\$0
			<b>CONSTRUCTION TOTALS</b>	<b>\$393,100</b>
CONTINGENCIES [< \$50,000,000/10%] [> \$50,000,000/7%]		10%		\$39,000
INCIDENTALS (<\$1million/25%, \$1-5 million/21%, \$5-10 million/15%, >\$50m/12%)		25%		\$98,000
UTILITIES				\$0
PRELIMINARY ENGINEERING AND ENVIRONMENTAL				
RIGHTS OF WAY				
RAILROAD FORCE ACCOUNT				
Estimated By: Anurag Agrawal			<b>TOTAL ESTIMATED COST</b>	<b>\$530,100</b>
Checked By: Mike Sutton			<b>TOWN CASH</b>	
Date of Estimate: Nov-2010				

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS  
PROJECT DEVELOPMENT UNIT  
PRELIMINARY COST ESTIMATE

Town of: **Beacon Falls****FIGURE 7-7**Project #: **124-164**

Width:

Depth:

Type:

From Sta:

To Sta:

A length of

Feet as shown on the  
plans

**Route 8 Deficiencies/Needs Study  
Interchange 23 - Medium Term Alternative  
Route 8 NB Off-Ramp to S Main Street**

Item	Est. Quant.	Unit	Unit Price	Total
Pavement; Overlay \$100tonx3"x.0575/9		SF		
Pavement; Milling 0"-4" \$5/SY / 9= \$.56		SF		
Pavement; \$100/TON	1,000	SF	\$6.39	\$6,400
Processed Aggregate Base [CY/\$41.95]	35	CY	\$41.95	\$1,500
		SF		
Drainage; Total Pavement Area "All New" [ Suburban \$4.00 - CBD \$5.00]		SF		
Drainage; Total Pavement Area Overlay (\$0.40/SF)		SF		
Drainage; Pipe (12" - 15" - 24" - 48") [\$55/\$65/\$80/\$210]		LF		
Drainage; Catch Basins [\$2500]		EA.		
Drainage; Double Catch Basins [\$3500]		EA.		
Drainage; Reset Catch Basins [\$750.00]		EA.		
Drainage; Culvert Ends [\$800-\$1000]		EA.		
Curbing; BCLC [\$4-\$10]		LF		
Curbing; Add 1 foot strip of pavement X length		SF		
Curbing; Concrete [\$30-\$40]		LF		
Curbing; Granite [\$45]		LF		
Earth Exv. [<500CY/\$48; 500-2500CY/\$33; 2500-5000CY/\$25; >5000CY/\$20]	60	CY	\$48.00	\$2,900
Rock Exv. [<500CY/\$138; 500-2500CY/\$108; 2500-5000/\$82 >5000/\$58]		CY		
Borrow [<500/\$38; 500-5000/\$23; >5000/\$14]		CY		
Guide Railing; R-I or 3 Cable [\$20]		LF		
Guide Railing; R-B (350) [\$30.00]		LF		
Guide Railing; Systems 2-6A [\$100]		LF		
Guide Railing; Anchors [\$1200]		EA.		
Precast Concrete Barrier Curb (15" x 32")		LF		
Precast Concrete Barrier Curb (24" x 32")		LF		
Concrete Sidewalk [\$14.00]		SF		
Bituminous Driveway [\$40/res;\$50/commercial]		SY		
Turf Establishment [\$3.00]		SY		
Furnishing & Placing Topsoil [\$8.00]		SY		
Sod [\$12.50]		SY		
Sedimentation Control [\$4]		LF		
Traffic Signals; New [\$100,000]		EA.		
Traffic Signals; Major Modification [\$60,000]		EA.		
Traffic Signals; Minor Modification [\$30,000]		EA.		
Other Expense - Bridge Demo [\$80]		SF		
Bridge; New [\$425overH2O/\$375overRdwy]		SF		
Bridge; Deck Replacement (\$150-\$200) Deck Overlay (\$15)		SF		
Bridge; Superstructure [\$150.00-\$200.00]		SF		
Retaining Wall; Double Wall & Reinforcing Earth [\$50.00-\$60.00]		SF		
Retaining Wall; Cast-in-Place Concrete (\$80-\$130/SF)		SF		
Noise Barrier Wall-Timber [\$25.00]		SF		
<b>Contract Items</b>			<b>SUBTOTAL</b>	<b>\$10,800</b>
Clearing and Grubbing Roadway (2%)	2%			\$200
M & P of Traffic (7%)	7%			\$1,000
Traffic Items (3%)	3%			\$0
Mobilization (7.5%)	7.5%			\$800
Construction Staking (1%)	1%			\$0
Minor Items (20%)	20%			\$2,000
Inflation Factor (6% per year)	0%			\$0
			<b>CONSTRUCTION TOTALS</b>	<b>\$14,800</b>
CONTINGENCIES [< \$50,000,000/10%] [> \$50,000,000/7%]	10%			\$1,000
INCIDENTALS (<\$1million/25%, \$1-5 million/21%, \$5-10 million/15%, >\$50m/12%)	25%			\$4,000
UTILITIES				\$0
PRELIMINARY ENGINEERING AND ENVIRONMENTAL RIGHTS OF WAY				
RAILROAD FORCE ACCOUNT				
Estimated By: Anurag Agrawal	<b>TOTAL ESTIMATED COST</b>			<b>\$19,800</b>
Checked By: Mike Sutton	<b>TOWN CASH</b>			
Date of Estimate: Aug-2010				



STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS  
PROJECT DEVELOPMENT UNIT  
PRELIMINARY COST ESTIMATE

Town of: **Naugatuck****FIGURE 7-8**Project #: **124-164**

Width:

Depth:

Type:

From Sta:

To Sta:

A length of

Feet as shown on the  
plans

**Route 8 Deficiencies/Needs Study  
Interchange 25 - Medium Term Alternative  
Route 8 NB Off-Ramp to Cross Street**

Item	Est. Quant.	Unit	Unit Price	Total
Pavement; Overlay \$100tonx3"x.0575/9		SF		
Pavement; Milling 0"-4" \$5/SY / 9= \$.56		SF		
Pavement; \$100/TON	800	SF	\$6.39	\$5,100
Processed Aggregate Base [CY/\$41.95]	25	CY	\$41.95	\$1,000
		SF		
Drainage; Total Pavement Area "All New" [ Suburban \$4.00 - CBD \$5.00]		SF		
Drainage; Total Pavement Area Overlay (\$0.40/SF)		SF		
Drainage; Pipe (12" - 15" - 24" - 48") [\$55/\$65/\$80/\$210]		LF		
Drainage; Catch Basins [\$2500]		EA.		
Drainage; Double Catch Basins [\$3500]		EA.		
Drainage; Reset Catch Basins [\$750.00]		EA.		
Drainage; Culvert Ends [\$800-\$1000]		EA.		
Curbing; BCLC [\$4-\$10]		LF		
Curbing; Add 1 foot strip of pavement X length		SF		
Curbing; Concrete [\$30-\$40]		LF		
Curbing; Granite [\$45]		LF		
Earth Exv. [<500CY/\$48; 500-2500CY/\$33; 2500-5000CY/\$25; >5000CY/\$20]	50	CY	\$48.00	\$2,400
Rock Exv. [<500CY/\$138; 500-2500CY/\$108; 2500-5000/\$82 >5000/\$58]		CY		
Borrow [<500/\$38; 500-5000/\$23; >5000/\$14]		CY		
Guide Railing; R-I or 3 Cable [\$20]		LF		
Guide Railing; R-B (350) [\$30.00]		LF		
Guide Railing; Systems 2-6A [\$100]		LF		
Guide Railing; Anchors [\$1200]		EA.		
Precast Concrete Barrier Curb (15" x 32")		LF		
Precast Concrete Barrier Curb (24" x 32")		LF		
Concrete Sidewalk [\$14.00]		SF		
Bituminous Driveway [\$40/res;\$50/commercial]		SY		
Turf Establishment [\$3.00]		SY		
Furnishing & Placing Topsoil [\$8.00]		SY		
Sod [\$12.50]		SY		
Sedimentation Control [\$4]		LF		
Traffic Signals; New [\$100,000]		EA.		
Traffic Signals; Major Modification [\$60,000]		EA.		
Traffic Signals; Minor Modification [\$30,000]		EA.		
Other Expense - Bridge Demo [\$80]		SF		
Bridge; New [\$425overH2O/\$375overRdwy]		SF		
Bridge; Deck Replacement (\$150-\$200) Deck Overlay (\$15)		SF		
Bridge; Superstructure [\$150.00-\$200.00]		SF		
Retaining Wall; Double Wall & Reinforcing Earth [\$50.00-\$60.00]		SF		
Retaining Wall; Cast-in-Place Concrete (\$80-\$130/SF)		SF		
Noise Barrier Wall-Timber [\$25.00]		SF		
<b>Contract Items</b>			<b>SUBTOTAL</b>	<b>\$8,500</b>
Clearing and Grubbing Roadway (2%)		2%		\$200
M & P of Traffic (7%)		7%		\$1,000
Traffic Items (3%)		3%		\$0
Mobilization (7.5%)		7.5%		\$600
Construction Staking (1%)		1%		\$0
Minor Items (20%)		20%		\$2,000
Inflation Factor (6% per year)		0%		\$0
			<b>CONSTRUCTION TOTALS</b>	<b>\$12,300</b>
CONTINGENCIES [< \$50,000,000/10%] [> \$50,000,000/7%]		10%		\$1,000
INCIDENTALS (<\$1million/25%, \$1-5 million/21%, \$5-10 million/15%, >\$50m/12%)		25%		\$3,000
UTILITIES				\$0
PRELIMINARY ENGINEERING AND ENVIRONMENTAL RIGHTS OF WAY				
RAILROAD FORCE ACCOUNT				
Estimated By: Anurag Agrawal			<b>TOTAL ESTIMATED COST</b>	<b>\$16,300</b>
Checked By: Mike Sutton			<b>TOWN CASH</b>	
Date of Estimate: Aug-2010				

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS  
PROJECT DEVELOPMENT UNIT  
PRELIMINARY COST ESTIMATE

Town of: **Naugatuck****FIGURE 7-9**  
(2 sheets)Project #: **124-164**

Width:

Depth:

Type:

From Sta:

To Sta:

A length of

Feet as shown on the  
plans

**Route 8 Deficiencies/Needs Study**  
**Interchange 25 - Medium Term Alternative**  
**Route 8 Ramps at Cross Street - Roundabout**  
**Cross Street at Cotton Hollow Road**

Item	Est. Quant.	Unit	Unit Price	Total
Pavement; Overlay \$100tonx3"x.0575/9	51,500	SF	\$1.92	\$98,900
Pavement; Milling 0"-4" \$5/SY / 9= \$.56	51,500	SF	\$0.56	\$28,800
Pavement; \$100/TON	12,680	SF	\$5.75	\$72,900
Processed Aggregate Base [CY/\$41.95]	450	CY	\$41.95	\$18,900
		SF		
Drainage; Total Pavement Area "All New" [ Suburban \$4.00 - CBD \$5.00]		SF		
Drainage; Total Pavement Area Overlay (\$0.40/SF)		SF		
Drainage; Pipe (12" - 15" - 24" - 48") [\$55/\$65/\$80/\$210]		LF		
Drainage; Catch Basins [\$2500]		EA.		
Drainage; Double Catch Basins [\$3500]		EA.		
Drainage; Reset Catch Basins [\$750.00]		EA.		
Drainage; Culvert Ends [\$800-\$1000]		EA.		
Curbing; BCLC [\$4-\$10]		LF		
Curbing; Add 1 foot strip of pavement X length		SF		
Curbing; Concrete [\$30-\$40]		LF		
Curbing; Granite [\$45]	4,200	LF	\$45.00	\$189,000
Earth Exv. [<500CY/\$48; 500-2500CY/\$33; 2500-5000CY/\$25; >5000CY/\$20]	825	CY	\$33.00	\$27,200
Rock Exv. [<500CY/\$138; 500-2500CY/\$108; 2500-5000/\$82 >5000/\$58]		CY		
Borrow [<500/\$38; 500-5000/\$23; >5000/\$14]		CY		
Guide Railing; R-I or 3 Cable [\$20]		LF		
Guide Railing; R-B (350) [\$30.00]		LF		
Guide Railing; Systems 2-6A [\$100]		LF		
Guide Railing; Anchors [\$1200]		EA.		
Precast Concrete Barrier Curb (15" x 32")	750	LF	\$50.00	\$37,500
Precast Concrete Barrier Curb (24" x 32")		LF		
Concrete Sidewalk [\$14.00]	4,625	SF	\$14.00	\$64,800
Bituminous Driveway [\$40/res;\$50/commercial]	60	SY	\$50.00	\$3,000
Turf Establishment [\$3.00]	1,250	SY	\$3.00	\$3,800
Furnishing & Placing Topsoil [\$8.00]		SY		
Sod [\$12.50]		SY		
Sedimentation Control [\$4]		LF		
Traffic Signals; New [\$100,000]		EA.		
Traffic Signals; Major Modification [\$60,000]		EA.		
Traffic Signals; Minor Modification [\$30,000]		EA.		
Other Expense;		SF		
Bridge; New [\$425overH2O/\$375overRdwy]		SF		
Bridge; Deck Replacement (\$150-\$200) Deck Overlay (\$15)		SF		
Bridge; Superstructure [\$150.00-\$200.00]		SF		
Retaining Wall; Double Wall & Reinforcing Earth [\$50.00-\$60.00]		SF		
Retaining Wall; Cast-in-Place Concrete (\$80-\$130/SF)		SF		
Noise Barrier Wall-Timber [\$25.00]		SF		
<b>Contract Items</b>			<b>SUBTOTAL</b>	<b>\$544,800</b>
Clearing and Grubbing Roadway (2%)		2%		\$10,900
M & P of Traffic (7%)		7%		\$38,000
Traffic Items (3%)		3%		\$16,000
Mobilization (7.5%)		7.5%		\$40,900
Construction Staking (1%)		1%		\$5,000
Minor Items (20%)		20%		\$109,000
Inflation Factor (6% per year)		0%		\$0
			<b>CONSTRUCTION TOTALS</b>	<b>\$764,600</b>
CONTINGENCIES [< \$50,000,000/10%] [> \$50,000,000/7%]		10%		\$76,000
INCIDENTALS (<\$1million/25%, \$1-5 million/21%, \$5-10 million/15%, >\$50m/12%)		25%		\$191,000
UTILITIES	<b>Yes</b>			\$0
PRELIMINARY ENGINEERING AND ENVIRONMENTAL				
RIGHTS OF WAY				
RAILROAD FORCE ACCOUNT				
Estimated By: Anurag Agrawal			<b>TOTAL ESTIMATED COST</b>	<b>\$1,031,600</b>
Checked By: Mike Sutton			<b>TOWN CASH</b>	
Date of Estimate: Nov-2010				

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS  
PROJECT DEVELOPMENT UNIT  
PRELIMINARY COST ESTIMATE

Town of: **Naugatuck****FIGURE 7-10**

**Route 8 Deficiencies/Needs Study  
Interchange 26 - Medium Term Alternative  
Route 8 NB Off-Ramp to Route 63**

Project #: **124-164**

Width:

Depth:

Type:

From Sta:

To Sta:

A length of

Feet as shown on the  
plans

Item	Est. Quant.	Unit	Unit Price	Total
Pavement; Overlay \$100tonx3"x.0575/9		SF		
Pavement; Milling 0"-4" \$5/SY / 9= \$.56		SF		
Pavement; \$100/TON	4,000	SF	\$6.39	\$25,600
Processed Aggregate Base [CY/\$41.95]	125	CY	\$41.95	\$5,200
		SF		
Drainage; Total Pavement Area "All New" [ Suburban \$4.00 - CBD \$5.00]		SF		
Drainage; Total Pavement Area Overlay (\$0.40/SF)		SF		
Drainage; Pipe (12" - 15" - 24" - 48") [\$55/\$65/\$80/\$210]		LF		
Drainage; Catch Basins [\$2500]		EA.		
Drainage; Double Catch Basins [\$3500]		EA.		
Drainage; Reset Catch Basins [\$750.00]		EA.		
Drainage; Culvert Ends [\$800-\$1000]		EA.		
Curbing; BCLC [\$4-\$10]		LF		
Curbing; Add 1 foot strip of pavement X length		SF		
Curbing; Concrete [\$30-\$40]		LF		
Curbing; Granite [\$45]		LF		
Earth Exv. [<500CY/\$48; 500-2500CY/\$33; 2500-5000CY/\$25; >5000CY/\$20]	235	CY	\$48.00	\$11,300
Rock Exv. [<500CY/\$138; 500-2500CY/\$108; 2500-5000/\$82 >5000/\$58]		CY		
Borrow [<500/\$38; 500-5000/\$23; >5000/\$14]		CY		
Guide Railing; R-I or 3 Cable [\$20]		LF		
Guide Railing; R-B (350) [\$30.00]		LF		
Guide Railing; Systems 2-6A [\$100]		LF		
Guide Railing; Anchors [\$1200]		EA.		
Precast Concrete Barrier Curb (15" x 32")		LF		
Precast Concrete Barrier Curb (24" x 32")		LF		
Concrete Sidewalk [\$14.00]		SF		
Bituminous Driveway [\$40/res;\$50/commercial]		SY		
Turf Establishment [\$3.00]		SY		
Furnishing & Placing Topsoil [\$8.00]		SY		
Sod [\$12.50]		SY		
Sedimentation Control [\$4]		LF		
Traffic Signals; New [\$100,000]		EA.		
Traffic Signals; Major Modification [\$60,000]		EA.		
Traffic Signals; Minor Modification [\$30,000]		EA.		
Other Expense - Bridge Demo [\$80]		SF		
Bridge; New [\$425overH2O/\$375overRdwy]		SF		
Bridge; Deck Replacement (\$150-\$200) Deck Overlay (\$15)		SF		
Bridge; Superstructure [\$150.00-\$200.00]		SF		
Retaining Wall; Double Wall & Reinforcing Earth [\$50.00-\$60.00]		SF		
Retaining Wall; Cast-in-Place Concrete (\$80-\$130/SF)		SF		
Noise Barrier Wall-Timber [\$25.00]		SF		
<b>Contract Items</b>			<b>SUBTOTAL</b>	<b>\$42,100</b>
Clearing and Grubbing Roadway (2%)		2%		\$800
M & P of Traffic (7%)		7%		\$3,000
Traffic Items (3%)		3%		\$1,000
Mobilization (7.5%)		7.5%		\$3,200
Construction Staking (1%)		1%		\$0
Minor Items (20%)		20%		\$8,000
Inflation Factor (6% per year)		0%		\$0
			<b>CONSTRUCTION TOTALS</b>	<b>\$58,100</b>
CONTINGENCIES [< \$50,000,000/10%] [> \$50,000,000/7%]		10%		\$6,000
INCIDENTALS (<\$1million/25%, \$1-5 million/21%, \$5-10 million/15%, >\$50m/12%		25%		\$15,000
UTILITIES	<b>Yes</b>			\$0
PRELIMINARY ENGINEERING AND ENVIRONMENTAL RIGHTS OF WAY				
RAILROAD FORCE ACCOUNT				
Estimated By: Anurag Agrawal			<b>TOTAL ESTIMATED COST</b>	<b>\$79,100</b>
Checked By: Mike Sutton			<b>TOWN CASH</b>	
Date of Estimate: Aug-2010				

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS  
PROJECT DEVELOPMENT UNIT  
PRELIMINARY COST ESTIMATE

Town of: **Naugatuck**

FIGURE 7-11

Project #: **124-164**

Width:

Depth:

Type:

From Sta:

To Sta:

A length of

Feet as shown on the  
plans

**Route 8 Deficiencies/Needs Study**  
**Interchange 26 - Long Term Alternative (Alt C)**  
**Route 8 NB Off-Ramp/Route 63 Realign NB Off-Ramp**

Item	Est. Quant.	Unit	Unit Price	Total
Pavement; Overlay \$100tonx3"x.0575/9	65,000	SF	\$1.92	\$124,800
Pavement; Milling 0"-4" \$5/SY / 9= \$.56	65,000	SF	\$0.56	\$36,400
Pavement; \$100/TON	21,715	SF	\$5.75	\$124,900
Pavement; \$100/TON	25,200	SF	\$6.39	\$161,000
Processed Aggregate Base [CY/\$41.95]	2,700	CY	\$41.95	\$113,300
Drainage; Total Pavement Area "All New" [ Suburban \$4.00 - CBD \$5.00]		SF		
Drainage; Total Pavement Area Overlay (\$0.40/SF)		SF		
Drainage; Pipe (12" - 15" - 24" - 48") [\$55/\$65/\$80/\$210]		LF		
Drainage; Catch Basins [\$2500]		EA.		
Drainage; Double Catch Basins [\$3500]		EA.		
Drainage; Reset Catch Basins [\$750.00]		EA.		
Drainage; Culvert Ends [\$800-\$1000]		EA.		
Curbing; BCLC [\$4-\$10]		LF		
Curbing; Add 1 foot strip of pavement X length		SF		
Curbing; Concrete [\$30-\$40]		LF		
Curbing; Granite [\$45]	3,400	LF	\$45.00	\$153,000
Earth Exv. [<500CY/\$48; 500-2500CY/\$33; 2500-5000CY/\$25; >5000CY/\$20]	4,550	CY	\$25.00	\$113,800
Rock Exv. [<500CY/\$138; 500-2500CY/\$108; 2500-5000/\$82 >5000/\$58]		CY		
Borrow [<500/\$38; 500-5000/\$23; >5000/\$14]		CY		
Guide Railing; R-I or 3 Cable [\$20]		LF		
Guide Railing; R-B (350) [\$30.00]		LF		
Guide Railing; Systems 2-6A [\$100]		LF		
Guide Railing; Anchors [\$1200]		EA.		
Precast Concrete Barrier Curb (15" x 32")		LF		
Precast Concrete Barrier Curb (24" x 32")		LF		
Concrete Sidewalk [\$14.00]	4,250	SF	\$14.00	\$59,500
Bituminous Driveway [\$40/res;\$50/commercial]		SY		
Turf Establishment [\$3.00]	4,450	SY	\$3.00	\$13,400
Furnishing & Placing Topsoil [\$8.00]		SY		
Sod [\$12.50]		SY		
Sedimentation Control [\$4]		LF		
Traffic Signals; New [\$100,000]	1.0	EA.	\$100,000	\$100,000
Traffic Signals; Major Modification [\$60,000]		EA.		
Traffic Signals; Minor Modification [\$30,000]	1.0	EA.	\$30,000	\$30,000
Other Expense		FT		
Bridge; New [\$425overH2O/\$375overRdwy]		SF		
Bridge; Deck Replacement (\$150-\$200) Deck Overlay (\$15)		SF		
Bridge; Superstructure [\$150.00-\$200.00]		SF		
Retaining Wall; Double Wall & Reinforcing Earth [\$50.00-\$60.00]	22,500	SF	\$60.00	\$1,350,000
Retaining Wall; Cast-in-Place Concrete (\$80-\$130/SF)		SF		
Noise Barrier Wall-Timber [\$25.00]		SF		
<b>Contract Items</b>			<b>SUBTOTAL</b>	<b>\$2,380,100</b>
Clearing and Grubbing Roadway (2%)		2%		\$47,600
M & P of Traffic (7%)		7%		\$167,000
Traffic Items (3%)		3%		\$71,000
Mobilization (7.5%)		7.5%		\$178,500
Construction Staking (1%)		1%		\$24,000
Minor Items (20%)		20%		\$476,000
Inflation Factor (6% per year)		0%		\$0
			<b>CONSTRUCTION TOTALS</b>	<b>\$3,344,200</b>
CONTINGENCIES [< \$50,000,000/10%] [> \$50,000,000/7%]		10%		\$334,000
INCIDENTALS (<\$1million/25%, \$1-5 million/21%, \$5-10 million/15%, >\$50m/12%		25%		\$836,000
UTILITIES	<b>Yes</b>			\$0
PRELIMINARY ENGINEERING AND ENVIRONMENTAL RIGHTS OF WAY				\$45,000
RAILROAD FORCE ACCOUNT				
Estimated By: Anurag Agrawal			<b>TOTAL ESTIMATED COST \$4,559,200</b>	
Checked By: Mike Sutton			<b>TOWN CASH</b>	
Date of Estimate: Aug-2010				

DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS  
PROJECT DEVELOPMENT UNIT  
PRELIMINARY COST ESTIMATE

Project #: 124-164

Width:

Depth:

Type:

From Sta:

To Sta:

A length of

Feet as shown on the  
plans

**Route 8 Deficiencies/Needs Study**  
**Interchange 27 - Long Term Alternative - Alt A**  
**Route 8 Ramps at Maple Street & Oak Street**

Item	Est. Quant.	Unit	Unit Price	Total
Pavement; Overlay \$100tonx3"x.0575/9	17,250	SF	\$1.92	\$33,100
Pavement; Milling 0"-4" \$5/SY / 9= \$56	17,250	SF	\$0.56	\$9,700
Pavement; \$100/TON	5,000	SF	\$5.75	\$28,800
Pavement; \$100/TON	7,000	SF	\$6.39	\$44,700
Processed Aggregate Base [CY/\$41.95]	620	CY	\$41.95	\$26,000
Drainage; Total Pavement Area "All New" [ Suburban \$4.00 - CBD \$5.00]		SF		
Drainage; Total Pavement Area Overlay (\$0.40/SF)		SF		
Drainage; Pipe (12" - 15" - 24" - 48") [\$55/\$65/\$80/\$210]		LF		
Drainage; Catch Basins [\$2500]		EA.		
Drainage; Double Catch Basins [\$3500]		EA.		
Drainage; Reset Catch Basins [\$750.00]		EA.		
Drainage; Culvert Ends [\$800-\$1000]		EA.		
Curbing; BCLC [\$4-\$10]		LF		
Curbing; Add 1 foot strip of pavement X length		SF		
Curbing; Concrete [\$30-\$40]		LF		
Curbing; Granite [\$45]	750	LF	\$45.00	\$33,800
Earth Exv. [<500CY/\$48; 500-2500CY/\$33; 2500-5000CY/\$25; >5000CY/\$20]	1,050	CY	\$33.00	\$34,700
Rock Exv. [<500CY/\$138; 500-2500CY/\$108;2500-5000/\$82 >5000/\$58]		CY		
Borrow [<500/\$38; 500-5000/\$23; >5000/\$14]		CY		
Guide Railing; R-I or 3 Cable [\$20]		LF		
Guide Railing; R-B (350) [\$30.00]		LF		
Guide Railing; Systems 2-6A [\$100]		LF		
Guide Railing; Anchors [\$1200]		EA.		
Precast Concrete Barrier Curb (15" x 32")	1,600	LF	\$50.00	\$80,000
Precast Concrete Barrier Curb (24" x 32")		LF		
Concrete Sidewalk [\$14.00]	3,500	SF	\$14.00	\$49,000
Bituminous Driveway [\$40/res;\$50/commercial]	30	SY	\$50.00	\$1,500
Turf Establishment [\$3.00]	1,000	SY	\$3.00	\$3,000
Furnishing & Placing Topsoil [\$8.00]		SY		
Sod [\$12.50]		SY		
Sedimentation Control [\$4]	1,750	LF	\$4.00	\$7,000
Traffic Signals; New [\$100,000]		EA.		
Traffic Signals; Major Modification [\$60,000]	1.0	EA.	\$60,000	\$60,000
Traffic Signals; Minor Modification [\$30,000]		EA.		
Other Expense: Bridge Demo [\$80.00]	1.0	LS	\$1,527,552	\$1,527,600
Bridge; New [\$425overH2O/\$375overRdwy]	29,920	SF	\$425.00	\$12,716,000
Bridge; Deck Replacement (\$150-\$200) Deck Overlay (\$15)		SF		
Bridge; Superstructure [\$150.00-\$200.00]		SF		
Retaining Wall; Double Wall & Reinforcing Earth [\$50.00-\$60.00]		SF		
Retaining Wall; Cast-in-Place Concrete (\$80-\$130/SF)	11,200	SF	\$130.00	\$1,456,000
Noise Barrier Wall-Timber [\$25.00]		SF		
<b>Contract Items</b>			<b>SUBTOTAL</b>	<b>\$16,110,900</b>
Clearing and Grubbing Roadway (2%)		2%		\$322,200
M & P of Traffic (7%)		7%		\$1,128,000
Traffic Items (3%)		3%		\$483,000
Mobilization (7.5%)		7.5%		\$1,208,300
Construction Staking (1%)		1%		\$161,000
Minor Items (20%)		20%		\$3,222,000
Inflation Factor (6% per year)		0%		\$0
			<b>CONSTRUCTION TOTALS</b>	<b>\$22,635,400</b>
CONTINGENCIES [< \$50,000,000/10%] [> \$50,000,000/7%]		10%		\$2,264,000
INCIDENTALS (<\$1million/25%, \$1-5 million/21%, \$5-10 million/15%, >\$50m/12%)		25%		\$5,659,000
UTILITIES		<b>Yes</b>		\$0
PRELIMINARY ENGINEERING AND ENVIRONMENTAL				
RIGHTS OF WAY				\$1,030,000
RAILROAD FORCE ACCOUNT				
Estimated By: Anurag Agrawal			<b>TOTAL ESTIMATED COST</b>	<b>\$31,588,400</b>
Checked By: Mike Sutton			<b>TOWN CASH</b>	
Date of Estimate: Aug-2010				

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS  
PROJECT DEVELOPMENT UNIT  
PRELIMINARY COST ESTIMATE

Town of: **Naugatuck****FIGURE 7-13**

**Route 8 Deficiencies/Needs Study  
Interchange 27 - Long Term Alternative  
Route 8 NB Off-Ramp/N Main Street**

Project #: **124-164**

Width:

Depth:

Type:

From Sta:

To Sta:

A length of

Feet as shown on the  
plans

Item	Est. Quant.	Unit	Unit Price	Total
Pavement; Overlay \$100tonx3"x.0575/9	5,055	SF	\$1.92	\$9,700
Pavement; Milling 0"-4" \$5/SY / 9= \$.56	5,055	SF	\$0.56	\$2,800
Pavement; \$100/TON	15,200	SF	\$6.39	\$97,100
Processed Aggregate Base [CY/\$41.95]	950	CY	\$41.95	\$39,900
		SF		
Drainage; Total Pavement Area "All New" [ Suburban \$4.00 - CBD \$5.00]		SF		
Drainage; Total Pavement Area Overlay (\$0.40/SF)		SF		
Drainage; Pipe (12" - 15" - 24" - 48") [\$55/\$65/\$80/\$210]		LF		
Drainage; Catch Basins [\$2500]		EA.		
Drainage; Double Catch Basins [\$3500]		EA.		
Drainage; Reset Catch Basins [\$750.00]		EA.		
Drainage; Culvert Ends [\$800-\$1000]		EA.		
Curbing; BCLC [\$4-\$10]		LF		
Curbing; Add 1 foot strip of pavement X length		SF		
Curbing; Concrete [\$30-\$40]		LF		
Curbing; Granite [\$45]	1,550	LF	\$45.00	\$69,800
Earth Exv. [<500CY/\$48; 500-2500CY/\$33; 2500-5000CY/\$25; >5000CY/\$20]	1,550	CY	\$33.00	\$51,200
Rock Exv. [<500CY/\$138; 500-2500CY/\$108; 2500-5000/\$82 >5000/\$58]		CY		
Borrow [<500/\$38; 500-5000/\$23; >5000/\$14]		CY		
Guide Railing; R-I or 3 Cable [\$20]		LF		
Guide Railing; R-B (350) [\$30.00]		LF		
Guide Railing; Systems 2-6A [\$100]		LF		
Guide Railing; Anchors [\$1200]		EA.		
Precast Concrete Barrier Curb (15" x 32")		LF		
Precast Concrete Barrier Curb (24" x 32")		LF		
Concrete Sidewalk [\$14.00]		SF		
Bituminous Driveway [\$40/res;\$50/commercial]		SY		
Turf Establishment [\$3.00]	1,575	SY	\$3.00	\$4,700
Furnishing & Placing Topsoil [\$8.00]		SY		
Sod [\$12.50]		SY		
Sedimentation Control [\$4]		LF		
Traffic Signals; New [\$100,000]		EA.		
Traffic Signals; Major Modification [\$60,000]		EA.		
Traffic Signals; Minor Modification [\$30,000]		EA.		
Other Expense		FT		
Bridge; New [\$425overH2O/\$375overRdwy]		SF		
Bridge; Deck Replacement (\$150-\$200) Deck Overlay (\$15)		SF		
Bridge; Superstructure [\$150.00-\$200.00]		SF		
Retaining Wall; Double Wall & Reinforcing Earth [\$50.00-\$60.00]		SF		
Retaining Wall; Cast-in-Place Concrete (\$80-\$130/SF)		SF		
Noise Barrier Wall-Timber [\$25.00]		SF		
<b>Contract Items</b>			<b>SUBTOTAL</b>	<b>\$275,200</b>
Clearing and Grubbing Roadway (2%)		2%		\$5,500
M & P of Traffic (7%)		7%		\$19,000
Traffic Items (3%)		3%		\$8,000
Mobilization (7.5%)		7.5%		\$20,600
Construction Staking (1%)		1%		\$3,000
Minor Items (20%)		20%		\$55,000
Inflation Factor (6% per year)		0%		\$0
			<b>CONSTRUCTION TOTALS</b>	<b>\$386,300</b>
CONTINGENCIES [< \$50,000,000/10%] [> \$50,000,000/7%]		10%		\$39,000
INCIDENTALS (<\$1million/25%, \$1-5 million/21%, \$5-10 million/15%, >\$50m/12%		25%		\$97,000
UTILITIES		<b>Yes</b>		\$0
PRELIMINARY ENGINEERING AND ENVIRONMENTAL RIGHTS OF WAY				
RAILROAD FORCE ACCOUNT				
Estimated By: Anurag Agrawal			<b>TOTAL ESTIMATED COST</b>	<b>\$522,300</b>
Checked By: Mike Sutton			<b>TOWN CASH</b>	
Date of Estimate: Aug-2010				

DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS  
PROJECT DEVELOPMENT UNIT  
PRELIMINARY COST ESTIMATE

Project #: 124-164

Width:

Depth:

Type:

From Sta:

To Sta:

A length of

Feet as shown on the plans

Route 8 Deficiencies/Needs Study  
Interchange 27 - Long Term Alternative  
Route 8 SB Ramps

Item	Est. Quant.	Unit	Unit Price	Total
Pavement; Overlay \$100tonx3"x.0575/9	4,900	SF	\$1.92	\$9,400
Pavement; Milling 0"-4" \$5/SY / 9= \$.56	4,900	SF	\$0.56	\$2,700
Pavement; \$100/TON	12,565	SF	\$6.39	\$80,300
Processed Aggregate Base [CY/\$41.95]	720	CY	\$41.95	\$30,200
		SF		
Drainage; Total Pavement Area "All New" [ Suburban \$4.00 - CBD \$5.00]		SF		
Drainage; Total Pavement Area Overlay (\$0.40/SF)		SF		
Drainage; Pipe (12" - 15" - 24" - 48") [\$55/\$65/\$80/\$210]		LF		
Drainage; Catch Basins [\$2500]		EA.		
Drainage; Double Catch Basins [\$3500]		EA.		
Drainage; Reset Catch Basins [\$750.00]		EA.		
Drainage; Culvert Ends [\$800-\$1000]		EA.		
Curbing; BCLC [\$4-\$10]		LF		
Curbing; Add 1 foot strip of pavement X length		SF		
Curbing; Concrete [\$30-\$40]		LF		
Curbing; Granite [\$45]	750	LF	\$45.00	\$33,800
Earth Exv. [<500CY/\$48; 500-2500CY/\$33; 2500-5000CY/\$25; >5000CY/\$20]	1,200	CY	\$33.00	\$39,600
Rock Exv. [<500CY/\$138; 500-2500CY/\$108; 2500-5000/\$82 >5000/\$58]		CY		
Borrow [<500/\$38; 500-5000/\$23; >5000/\$14]		CY		
Guide Railing; R-1 or 3 Cable [\$20]		LF		
Guide Railing; R-B (350) [\$30.00]	1,700	LF	\$30.00	\$51,000
Guide Railing; Systems 2-6A [\$100]		LF		
Guide Railing; Anchors [\$1200]		EA.		
Precast Concrete Barrier Curb (15" x 32")	1,650	LF	\$50.00	\$82,500
Precast Concrete Barrier Curb (24" x 32")		LF		
Concrete Sidewalk [\$14.00]	24,000	SF	\$14.00	\$336,000
Bituminous Driveway [\$40/res;\$50/commercial]		SY		
Turf Establishment [\$3.00]	7,065	SY	\$3.00	\$21,200
Furnishing & Placing Topsoil [\$8.00]		SY		
Sod [\$12.50]		SY		
Sedimentation Control [\$4]	1,700	LF	\$4.00	\$6,800
Traffic Signals; New [\$100,000]		EA.		
Traffic Signals; Major Modification [\$60,000]		EA.		
Traffic Signals; Minor Modification [\$30,000]		EA.		
Other Expense		FT		
Bridge; New [\$425overH2O/\$375overRdwy]	7,616	SF	\$425.00	\$3,236,800
Bridge; Deck Replacement (\$150-\$200) Deck Overlay (\$15)		SF		
Bridge; Superstructure [\$150.00-\$200.00]		SF		
Retaining Wall; Double Wall & Reinforcing Earth [\$50.00-\$60.00]		SF		
Retaining Wall; Cast-in-Place Concrete (\$80-\$130/SF)	11,200	SF	\$130.00	\$1,456,000
Noise Barrier Wall-Timber [\$25.00]		SF		
<b>Contract Items</b>			<b>SUBTOTAL</b>	<b>\$5,386,300</b>
Clearing and Grubbing Roadway (2%)		2%		\$107,700
M & P of Traffic (7%)		7%		\$377,000
Traffic Items (3%)		3%		\$162,000
Mobilization (7.5%)		7.5%		\$404,000
Construction Staking (1%)		1%		\$54,000
Minor Items (20%)		20%		\$1,077,000
Inflation Factor (6% per year)		0%		\$0
			<b>CONSTRUCTION TOTALS</b>	<b>\$7,568,000</b>
CONTINGENCIES [< \$50,000,000/10%] [> \$50,000,000/7%]		10%		\$757,000
INCIDENTALS (<\$1million/25%, \$1-5 million/21%, \$5-10 million/15%, >\$50m/12%)		25%		\$1,892,000
UTILITIES		Yes		\$0
PRELIMINARY ENGINEERING AND ENVIRONMENTAL				
RIGHTS OF WAY				
RAILROAD FORCE ACCOUNT				
Estimated By: Anurag Agrawal				<b>TOTAL ESTIMATED COST \$10,217,000</b>
Checked By: Mike Sutton				<b>TOWN CASH</b>
Date of Estimate: Aug-2010				

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS  
PROJECT DEVELOPMENT UNIT  
PRELIMINARY COST ESTIMATE

Town of: **Naugatuck****FIGURE 7-15**Project #: **124-164**

Width:

Depth:

Type:

From Sta:

To Sta:

A length of

Feet as shown on the  
plans

**Route 8 Deficiencies/Needs Study  
Interchange 28 - Medium Term Alternative  
Route 8 NB Off-Ramp to N. Main Street**

Item	Est. Quant.	Unit	Unit Price	Total
Pavement; Overlay \$100tonx3"x.0575/9		SF		
Pavement; Milling 0"-4" \$5/SY / 9= \$.56		SF		
Pavement; \$100/TON	12,700	SF	\$6.39	\$81,200
Processed Aggregate Base [CY/\$41.95]	550	CY	\$41.95	\$23,100
		SF		
Drainage; Total Pavement Area "All New" [ Suburban \$4.00 - CBD \$5.00]		SF		
Drainage; Total Pavement Area Overlay (\$0.40/SF)		SF		
Drainage; Pipe (12" - 15" - 24" - 48") [\$55/\$65/\$80/\$210]		LF		
Drainage; Catch Basins [\$2500]		EA.		
Drainage; Double Catch Basins [\$3500]		EA.		
Drainage; Reset Catch Basins [\$750.00]		EA.		
Drainage; Culvert Ends [\$800-\$1000]		EA.		
Curbing; BCLC [\$4-\$10]		LF		
Curbing; Add 1 foot strip of pavement X length		SF		
Curbing; Concrete [\$30-\$40]		LF		
Curbing; Granite [\$45]	750	LF	\$45.00	\$33,800
Earth Exv. [<500CY/\$48; 500-2500CY/\$33; 2500-5000CY/\$25; >5000CY/\$20]	950	CY	\$33.00	\$31,400
Rock Exv. [<500CY/\$138; 500-2500CY/\$108; 2500-5000/\$82 >5000/\$58]		CY		
Borrow [<500/\$38; 500-5000/\$23; >5000/\$14]		CY		
Guide Railing; R-I or 3 Cable [\$20]		LF		
Guide Railing; R-B (350) [\$30.00]		LF		
Guide Railing; Systems 2-6A [\$100]		LF		
Guide Railing; Anchors [\$1200]		EA.		
Precast Concrete Barrier Curb (15" x 32")		LF		
Precast Concrete Barrier Curb (24" x 32")		LF		
Concrete Sidewalk [\$14.00]		SF		
Bituminous Driveway [\$40/res;\$50/commercial]		SY		
Turf Establishment [\$3.00]	850	SY	\$3.00	\$2,600
Furnishing & Placing Topsoil [\$8.00]		SY		
Sod [\$12.50]		SY		
Sedimentation Control [\$4]		LF		
Traffic Signals; New [\$100,000]		EA.		
Traffic Signals; Major Modification [\$60,000]		EA.		
Traffic Signals; Minor Modification [\$30,000]		EA.		
Other Expense (Overhead Sign Support & Foundation)	1	EA.	\$80,000	\$80,000
Bridge; New [\$425overH2O/\$375overRdwy]		SF		
Bridge; Deck Replacement (\$150-\$200) Deck Overlay (\$15)		SF		
Bridge; Superstructure [\$150.00-\$200.00]		SF		
Retaining Wall; Double Wall & Reinforcing Earth [\$50.00-\$60.00]		SF		
Retaining Wall; Cast-in-Place Concrete (\$80-\$130/SF)	8,700	SF	\$130.00	\$1,131,000
Noise Barrier Wall-Timber [\$25.00]		SF		
<b>Contract Items</b>			<b>SUBTOTAL</b>	<b>\$1,383,100</b>
Clearing and Grubbing Roadway (2%)		2%		\$27,700
M & P of Traffic (7%)		7%		\$97,000
Traffic Items (3%)		3%		\$41,000
Mobilization (7.5%)		7.5%		\$103,700
Construction Staking (1%)		1%		\$14,000
Minor Items (20%)		20%		\$277,000
Inflation Factor (6% per year)		0%		\$0
			<b>CONSTRUCTION TOTALS</b>	<b>\$1,943,500</b>
CONTINGENCIES [< \$50,000,000/10%] [> \$50,000,000/7%]		10%		\$194,000
INCIDENTALS (<\$1million/25%, \$1-5 million/21%, \$5-10 million/15%, >\$50m/12%		25%		\$486,000
UTILITIES	Yes			\$0
PRELIMINARY ENGINEERING AND ENVIRONMENTAL RIGHTS OF WAY				
RAILROAD FORCE ACCOUNT				
Estimated By: Anurag Agrawal	<b>TOTAL ESTIMATED COST</b>			<b>\$2,623,500</b>
Checked By: Mike Sutton	<b>TOWN CASH</b>			
Date of Estimate: Aug-2010				



DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS  
PROJECT DEVELOPMENT UNIT  
PRELIMINARY COST ESTIMATE

Project #: 124-164

Width:

Depth:

Type:

From Sta:

To Sta:

A length of

Feet as shown on the  
plans

**Route 8 Deficiencies/Needs Study**  
**Interchange 28 - Long Term Alternative**  
**Route 8 Ramps at N Main Street & Union City Street**

Item	Est. Quant.	Unit	Unit Price	Total
Pavement; Overlay \$100tonx3"x.0575/9	83,000	SF	\$1.92	\$159,400
Pavement; Milling 0"-4" \$5/SY / 9= \$.56	83,000	SF	\$0.56	\$46,500
Pavement; \$100/TON	40,000	SF	\$5.75	\$230,000
Processed Aggregate Base [CY/\$41.95]	1,200	CY	\$41.95	\$50,300
Drainage; Total Pavement Area "All New" [ Suburban \$4.00 - CBD \$5.00]		SF		
Drainage; Total Pavement Area Overlay (\$0.40/SF)		SF		
Drainage; Pipe (12" - 15" - 24" - 48") [\$55/\$65/\$80/\$210]		LF		
Drainage; Catch Basins [\$2500]		EA.		
Drainage; Double Catch Basins [\$3500]		EA.		
Drainage; Reset Catch Basins [\$750.00]		EA.		
Drainage; Culvert Ends [\$800-\$1000]		EA.		
Curbing; BCLC [\$4-\$10]		LF		
Curbing; Add 1 foot strip of pavement X length		SF		
Curbing; Concrete [\$30-\$40]		LF		
Curbing; Granite [\$45]	2,100	LF	\$45.00	\$94,500
Earth Exv. [<500CY/\$48; 500-2500CY/\$33; 2500-5000CY/\$25; >5000CY/\$20]	2,300	CY	\$33.00	\$75,900
Rock Exv. [<500CY/\$138; 500-2500CY/\$108; 2500-5000/\$82 >5000/\$58]		CY		
Borrow [<500/\$38; 500-5000/\$23; >5000/\$14]		CY		
Guide Railing; R-I or 3 Cable [\$20]		LF		
Guide Railing; R-B (350) [\$30.00]		LF		
Guide Railing; Systems 2-6A [\$100]		LF		
Guide Railing; Anchors [\$1200]		EA.		
Precast Concrete Barrier Curb (15" x 32")		LF		
Precast Concrete Barrier Curb (24" x 32")		LF		
Concrete Sidewalk [\$14.00]	12,000	SF	\$14.00	\$168,000
Bituminous Driveway [\$40/res;\$50/commercial]	300	SY	\$50.00	\$15,000
Turf Establishment [\$3.00]	1,000	SY	\$3.00	\$3,000
Furnishing & Placing Topsoil [\$8.00]		SY		
Sod [\$12.50]		SY		
Sedimentation Control [\$4]		LF		
Traffic Signals; New [\$100,000]	1.0	EA.	\$100,000	\$100,000
Traffic Signals; Major Modification [\$60,000]	2.0	EA.	\$30,000	\$60,000
Traffic Signals; Minor Modification [\$30,000]		EA.		
Other Expense		FT		
Bridge; New [\$425overH2O/\$375overRdwy]	320	SF	\$425.00	\$136,000
Bridge; Deck Replacement (\$150-\$200) Deck Overlay (\$15)	200	SF	\$200.00	\$40,000
Bridge; Deck Overlay [\$15.00]	1,800	SF	\$15.00	\$27,000
Retaining Wall; Double Wall & Reinforcing Earth [\$50.00-\$60.00]		SF		
Retaining Wall; Cast-in-Place Concrete (\$80-\$130/SF)	1,080	SF	\$130.00	\$140,400
Noise Barrier Wall-Timber [\$25.00]		SF		
<b>Contract Items</b>			<b>SUBTOTAL</b>	<b>\$1,346,000</b>
Clearing and Grubbing Roadway (2%)		2%		\$26,900
M & P of Traffic (7%)		7%		\$94,000
Traffic Items (3%)		3%		\$40,000
Mobilization (7.5%)		7.5%		\$101,000
Construction Staking (1%)		1%		\$13,000
Minor Items (20%)		20%		\$269,000
Inflation Factor (6% per year)		0%		\$0
			<b>CONSTRUCTION TOTALS</b>	<b>\$1,889,900</b>
CONTINGENCIES [< \$50,000,000/10%] [> \$50,000,000/7%]		10%		\$189,000
INCIDENTALS (<\$1million/25%, \$1-5 million/21%, \$5-10 million/15%, >\$50m/12%)		25%		\$472,000
UTILITIES	<b>Yes</b>			\$0
PRELIMINARY ENGINEERING AND ENVIRONMENTAL RIGHTS OF WAY				\$2,500,000
RAILROAD FORCE ACCOUNT				
Estimated By: Anurag Agrawal			<b>TOTAL ESTIMATED COST</b>	<b>\$5,050,900</b>
Checked By: Mike Sutton			<b>TOWN CASH</b>	
Date of Estimate: Aug-2010				

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS  
PROJECT DEVELOPMENT UNIT  
PRELIMINARY COST ESTIMATE

Town of: **Waterbury**

FIGURE 7-17

Project #: **124-164**

Width:

Depth:

Type:

From Sta:

To Sta:

A length of

Feet as shown on the  
plans

**Route 8 Deficiencies/Needs Study**  
**Interchange 29 - Medium & Long Term Alternative**  
**Route 8 NB Ramps at South Main Street**

Item	Est. Quant.	Unit	Unit Price	Total
Pavement; Overlay \$100tonx3"x.0575/9	68,050	SF	\$1.92	\$130,700
Pavement; Milling 0"-4" \$5/SY / 9= \$.56	68,050	SF	\$0.56	\$38,100
Pavement; \$100/TON	1,850	SF	\$5.75	\$10,600
Pavement; \$100/TON	7,450	SF	\$6.39	\$47,600
Processed Aggregate Base [CY/\$41.95]	470	CY	\$41.95	\$19,700
Drainage; Total Pavement Area "All New" [ Suburban \$4.00 - CBD \$5.00]		SF		
Drainage; Total Pavement Area Overlay (\$0.40/SF)		SF		
Drainage; Pipe (12" - 15" - 24" - 48") [\$55/\$65/\$80/\$210]		LF		
Drainage; Catch Basins [\$2500]		EA.		
Drainage; Double Catch Basins [\$3500]		EA.		
Drainage; Reset Catch Basins [\$750.00]		EA.		
Drainage; Culvert Ends [\$800-\$1000]		EA.		
Curbing; BCLC [\$4-\$10]		LF		
Curbing; Add 1 foot strip of pavement X length		SF		
Curbing; Concrete [\$30-\$40]		LF		
Curbing; Granite [\$45]	1,100	LF	\$45.00	\$49,500
Earth Exv. [<500CY/\$48; 500-2500CY/\$33; 2500-5000CY/\$25; >5000CY/\$20]	750	CY	\$33.00	\$24,800
Rock Exv. [<500CY/\$138; 500-2500CY/\$108; 2500-5000/\$82 >5000/\$58]		CY		
Borrow [<500/\$38; 500-5000/\$23; >5000/\$14]		CY		
Guide Railing; R-I or 3 Cable [\$20]		LF		
Guide Railing; R-B (350) [\$30.00]		LF		
Guide Railing; Systems 2-6A [\$100]		LF		
Guide Railing; Anchors [\$1200]		EA.		
Precast Concrete Barrier Curb (15" x 32")		LF		
Precast Concrete Barrier Curb (24" x 32")		LF		
Concrete Sidewalk [\$14.00]	700	SF	\$14.00	\$9,800
Bituminous Driveway [\$40/res;\$50/commercial]	150	SY	\$50.00	\$7,500
Turf Establishment [\$3.00]	1,100	SY	\$3.00	\$3,300
Furnishing & Placing Topsoil [\$8.00]		SY		
Sod [\$12.50]		SY		
Sedimentation Control [\$4]		LF		
Traffic Signals; New [\$100,000]		EA.		
Traffic Signals; Major Modification [\$60,000]		EA.		
Traffic Signals; Minor Modification [\$30,000]	2.0	EA.	\$30,000	\$60,000
Other Expense		FT		
Bridge; New [\$425overH2O/\$375overRdwy]		SF		
Bridge; Deck Replacement (\$150-\$200) Deck Overlay (\$15)		SF		
Bridge; Superstructure [\$150.00-\$200.00]		SF		
Retaining Wall; Double Wall & Reinforcing Earth [\$50.00-\$60.00]		SF		
Retaining Wall; Cast-in-Place Concrete (\$80-\$130/SF)		SF		
Noise Barrier Wall-Timber [\$25.00]		SF		
<b>Contract Items</b>			<b>SUBTOTAL</b>	<b>\$401,600</b>
Clearing and Grubbing Roadway (2%)	2%			\$8,000
M & P of Traffic (7%)	7%			\$28,000
Traffic Items (3%)	3%			\$12,000
Mobilization (7.5%)	7.5%			\$30,100
Construction Staking (1%)	1%			\$4,000
Minor Items (20%)	20%			\$80,000
Inflation Factor (6% per year)	0%			\$0
<b>CONSTRUCTION TOTALS</b>				<b>\$563,700</b>
CONTINGENCIES [< \$50,000,000/10%] [> \$50,000,000/7%]	10%			\$56,000
INCIDENTALS (<\$1million/25%, \$1-5 million/21%, \$5-10 million/15%, >\$50m/12%	25%			\$141,000
UTILITIES	<b>Yes</b>			\$0
PRELIMINARY ENGINEERING AND ENVIRONMENTAL RIGHTS OF WAY				
RAILROAD FORCE ACCOUNT				
Estimated By: Anurag Agrawal	<b>TOTAL ESTIMATED COST</b>			<b>\$760,700</b>
Checked By: Mike Sutton	<b>TOWN CASH</b>			
Date of Estimate: Aug-2010				

DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS  
PROJECT DEVELOPMENT UNIT  
PRELIMINARY COST ESTIMATE

Project #: **124-164**

Width:

Depth:

Type:

From Sta:

To Sta:

A length of

Feet as shown on the  
plans

**Route 8 Deficiencies/Needs Study**  
**Interchange 29 - Long Term Alternative**  
**Route 8 SB Ramps**

Item	Est. Quant.	Unit	Unit Price	Total
Pavement; Overlay \$100tonx3"x.0575/9	40,000	SF	\$1.92	\$76,800
Pavement; Milling 0"-4" \$5/SY / 9= \$ .56	40,000	SF	\$0.56	\$22,400
Pavement; \$100/TON	34,250	SF	\$6.39	\$218,900
Processed Aggregate Base [CY/\$41.95]	1,500	CY	\$41.95	\$62,900
		SF		
Drainage; Total Pavement Area "All New" [ Suburban \$4.00 - CBD \$5.00]		SF		
Drainage; Total Pavement Area Overlay (\$0.40/SF)		SF		
Drainage; Pipe (12" - 15" - 24" - 48") [\$55/\$65/\$80/\$210]		LF		
Drainage; Catch Basins [\$2500]		EA.		
Drainage; Double Catch Basins [\$3500]		EA.		
Drainage; Reset Catch Basins [\$750.00]		EA.		
Drainage; Culvert Ends [\$800-\$1000]		EA.		
Curbing; BCLC [\$4-\$10]		LF		
Curbing; Add 1 foot strip of pavement X length		SF		
Curbing; Concrete [\$30-\$40]		LF		
Curbing; Granite [\$45]	3,000	LF	\$45.00	\$135,000
Earth Exv. [<500CY/\$48; 500-2500CY/\$33; 2500-5000CY/\$25; >5000CY/\$20]	2,550	CY	\$25.00	\$63,800
Rock Exv. [<500CY/\$138; 500-2500CY/\$108;2500-5000/\$82 >5000/\$58]		CY		
Borrow [<500/\$38; 500-5000/\$23; >5000/\$14]		CY		
Guide Railing; R-I or 3 Cable [\$20]		LF		
Guide Railing; R-B (350) [\$30.00]	2,500	LF	\$30.00	\$75,000
Guide Railing; Systems 2-6A [\$100]		LF		
Guide Railing; Anchors [\$1200]		EA.		
Precast Concrete Barrier Curb (15" x 32")		LF		
Precast Concrete Barrier Curb (24" x 32")	1,250	LF	\$60.00	\$75,000
Concrete Sidewalk [\$14.00]		SF		
Bituminous Driveway [\$40/res;\$50/commercial]		SY		
Turf Establishment [\$3.00]	300	SY	\$3.00	\$900
Furnishing & Placing Topsoil [\$8.00]		SY		
Sod [\$12.50]		SY		
Sedimentation Control [\$4]	2,600	LF	\$4.00	\$10,400
Traffic Signals; New [\$100,000]		EA.		
Traffic Signals; Major Modification [\$60,000]		EA.		
Traffic Signals; Minor Modification [\$30,000]		EA.		
Other Expense		FT		
Bridge; New [\$425overH2O/\$375overRdwy]	5,400	SF	\$375.00	\$2,025,000
Bridge; Deck Replacement (\$150-\$200) Deck Overlay (\$15)	300	SF	\$200.00	\$60,000
Bridge; Overlay [\$15.00]	4,500	SF	\$15.00	\$67,500
Retaining Wall; Double Wall & Reinforcing Earth [\$50.00-\$60.00]		SF		
Retaining Wall; Cast-in-Place Concrete (\$80-\$130/SF)	41,000	SF	\$130.00	\$5,330,000
Noise Barrier Wall-Timber [\$25.00]		SF		
<b>Contract Items</b>			<b>SUBTOTAL</b>	<b>\$8,223,600</b>
Clearing and Grubbing Roadway (2%)		2%		\$164,500
M & P of Traffic (7%)		7%		\$576,000
Traffic Items (3%)		3%		\$247,000
Mobilization (7.5%)		7.5%		\$616,800
Construction Staking (1%)		1%		\$82,000
Minor Items (20%)		20%		\$1,645,000
Inflation Factor (6% per year)		0%		\$0
			<b>CONSTRUCTION TOTALS</b>	<b>\$11,554,900</b>
CONTINGENCIES [< \$50,000,000/10%] [> \$50,000,000/7%]		10%		\$1,155,000
INCIDENTALS (<\$1million/25%, \$1-5 million/21%, \$5-10 million/15%, >\$50m/12%)		25%		\$2,889,000
UTILITIES		<b>Yes</b>		\$0
PRELIMINARY ENGINEERING AND ENVIRONMENTAL				
RIGHTS OF WAY				
RAILROAD FORCE ACCOUNT				
Estimated By: Anurag Agrawal			<b>TOTAL ESTIMATED COST</b>	<b>\$15,598,900</b>
Checked By: Mike Sutton			<b>TOWN CASH</b>	
Date of Estimate: Aug-2010				

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS  
PROJECT DEVELOPMENT UNIT  
PRELIMINARY COST ESTIMATE

Town of: **Waterbury****FIGURE 7-19**Project #: **124-164**

Width:

Depth:

Type:

From Sta:

To Sta:

A length of

Feet as shown on the  
plans

**Route 8 Deficiencies/Needs Study  
Interchange 29 - Medium & Long Term Alternative  
South Main Street at Platts Mill Road**

Item	Est. Quant.	Unit	Unit Price	Total
Pavement; Overlay \$100tonx3"x.0575/9		SF		
Pavement; Milling 0"-4" \$5/SY / 9= \$.56		SF		
Pavement; \$100/TON	13,550	SF	\$5.75	\$77,900
Processed Aggregate Base [CY/\$41.95]	650	CY	\$41.95	\$27,300
		SF		
Drainage; Total Pavement Area "All New" [ Suburban \$4.00 - CBD \$5.00]		SF		
Drainage; Total Pavement Area Overlay (\$0.40/SF)		SF		
Drainage; Pipe (12" - 15" - 24" - 48") [\$55/\$65/\$80/\$210]		LF		
Drainage; Catch Basins [\$2500]		EA.		
Drainage; Double Catch Basins [\$3500]		EA.		
Drainage; Reset Catch Basins [\$750.00]		EA.		
Drainage; Culvert Ends [\$800-\$1000]		EA.		
Curbing; BCLC [\$4-\$10]		LF		
Curbing; Add 1 foot strip of pavement X length		SF		
Curbing; Concrete [\$30-\$40]		LF		
Curbing; Granite [\$45]	870	LF	\$45.00	\$39,200
Earth Exv. [<500CY/\$48; 500-2500CY/\$33; 2500-5000CY/\$25; >5000CY/\$20]	1,150	CY	\$33.00	\$38,000
Rock Exv. [<500CY/\$138; 500-2500CY/\$108; 2500-5000/\$82 >5000/\$58]		CY		
Borrow [<500/\$38; 500-5000/\$23; >5000/\$14]		CY		
Guide Railing; R-I or 3 Cable [\$20]		LF		
Guide Railing; R-B (350) [\$30.00]		LF		
Guide Railing; Systems 2-6A [\$100]		LF		
Guide Railing; Anchors [\$1200]		EA.		
Precast Concrete Barrier Curb (15" x 32")		LF		
Precast Concrete Barrier Curb (24" x 32")		LF		
Concrete Sidewalk [\$14.00]		SF		
Bituminous Driveway [\$40/res;\$50/commercial]	90	SY	\$50.00	\$4,500
Turf Establishment [\$3.00]	1,150	SY	\$3.00	\$3,500
Furnishing & Placing Topsoil [\$8.00]		SY		
Sod [\$12.50]		SY		
Sedimentation Control [\$4]		LF		
Traffic Signals; New [\$100,000]		EA.		
Traffic Signals; Major Modification [\$60,000]		EA.		
Traffic Signals; Minor Modification [\$30,000]	1.0	EA.	\$30,000	\$30,000
Other Expense		FT		
Bridge; New [\$425overH2O/\$375overRdwy]		SF		
Bridge; Deck Replacement (\$150-\$200) Deck Overlay (\$15)		SF		
Bridge; Superstructure [\$150.00-\$200.00]		SF		
Retaining Wall; Double Wall & Reinforcing Earth [\$50.00-\$60.00]		SF		
Retaining Wall; Cast-in-Place Concrete (\$80-\$130/SF)		SF		
Noise Barrier Wall-Timber [\$25.00]		SF		
<b>Contract Items</b>			<b>SUBTOTAL</b>	<b>\$220,400</b>
Clearing and Grubbing Roadway (2%)		2%		\$4,400
M & P of Traffic (7%)		7%		\$15,000
Traffic Items (3%)		3%		\$7,000
Mobilization (7.5%)		7.5%		\$16,500
Construction Staking (1%)		1%		\$2,000
Minor Items (20%)		20%		\$44,000
Inflation Factor (6% per year)		0%		\$0
			<b>CONSTRUCTION TOTALS</b>	<b>\$309,300</b>
CONTINGENCIES [< \$50,000,000/10%] [> \$50,000,000/7%]		10%		\$31,000
INCIDENTALS (<\$1million/25%, \$1-5 million/21%, \$5-10 million/15%, >\$50m/12%		25%		\$77,000
UTILITIES		<b>Yes</b>		\$0
PRELIMINARY ENGINEERING AND ENVIRONMENTAL RIGHTS OF WAY				
RAILROAD FORCE ACCOUNT				
Estimated By: Anurag Agrawal	<b>TOTAL ESTIMATED COST</b>			<b>\$417,300</b>
Checked By: Mike Sutton	<b>TOWN CASH</b>			
Date of Estimate: Aug-2010				