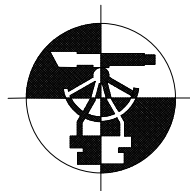


**VILLAGE OF ESSEX JUNCTION**

**Capital Projects  
Construction Cost Estimates**

**May 1, 2017**



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136 Pearl Street  
Essex Junction, Vermont 05452  
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# SUMMARY

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Summary of Capital Projects Estimates**

Cost Reference Date: 5/1/2017

Revision Date: 5/1/2017

			Original Capital	Estimate Preparation	Cost Reference	Construction	Engineering	Total
	Street Name	Project Description	Plan Date	Date	Date	Cost	Fees	Cost
A	Abnaki Avenue	Reconstruction of 525 L.F. of Roadway	11/24/2003	5/1/2017	5/1/2017	\$ 276,824.02	\$ 55,364.80	\$ 332,188.82
B	Algonquin Avenue	Reconstruction of 230 L.F. of Roadway and Install New Waterline	11/24/2003	Completed Summer of 2012				
C	Algonquin Avenue	New Waterline Installation, Cherokee Ave to Iroquois Ave	10/17/2005	5/1/2017	5/1/2017	\$ 192,323.34	\$ 38,464.67	\$ 230,788.01
D	Briar Lane	Sidewalk Replacement	9/28/2001	Completed Summer of 2016				
E	Briar Lane	Waterline and Sidewalk Replacement	9/29/2005	Completed Summer of 2016				
F	Briar Lane	Road Reconstruction, Conventional Construction	9/28/2001	Rebuilt using Innovative Concstruction see Project "G"				
G	Briar Lane	Road Reconstruction, Innovative Construction	9/28/2001	Completed Summer of 2016				
H	Central Street	Waterline Replacement, Lincoln Street to Main Street	9/29/2005	5/1/2017	5/1/2017	\$ 1,093,982.78	\$ 196,916.90	\$ 1,290,899.68
I	Church Street	Waterline Replacement, Main Street to East Street	9/29/2005	5/1/2017	5/1/2017	\$ 231,658.18	\$ 46,331.64	\$ 277,989.82
J	Densmore Drive	Partial Reconstruction and Culvert Replacement	10/17/2005	5/1/2017	5/1/2017	\$ 386,633.26	\$ 77,326.65	\$ 463,959.91
K	Fairview Farms	Stormwater Pond Improvements	12/16/2008	Completed Summer of 2010				
L	Grant Street	Waterline Replacement, Jackson Street to Maple Street	9/29/2005	5/1/2017	5/1/2017	\$ 295,681.24	\$ 59,136.25	\$ 354,817.49
M	Grove Street	Replace Sanitary Sewer, Road Reconstruction	1/6/2009	Completed Summer of 2010				
N	Hillcrest Road	Drainage Improvements on Hillcrest, Water & Drainage Improvements on North Hillcrest	9/29/2005	Completed Summer of 2015				
O	Iroquois Avenue	Road Reconstruction, South Summit Street to Park Street, Conventional Construction	9/28/2001	5/1/2017	5/1/2017	\$ 1,017,089.33	\$ 183,076.08	\$ 1,200,165.40
P	Iroquois Avenue	Road Reconstruction, South Summit Street to Park Street, Innovative Construction	9/28/2001	5/1/2017	5/1/2017	\$ 1,000,405.39	\$ 180,072.97	\$ 1,180,478.36
Q	Lamoille Street	Waterline Replacement and Roadway Reconstruction	9/29/2005	5/1/2017	5/1/2017	\$ 631,247.63	\$ 119,937.05	\$ 751,184.68
R	Main Street	Enclose Drainage from Educational Dr. to Athens Dr., New Bridge at Indian Brook	10/15/2003	5/1/2017	5/1/2017	\$ 2,103,451.31	\$ 378,621.24	\$ 2,482,072.54
S	North Street	Replace Waterline, Grove Street to Central Street	9/29/2005	5/1/2017	5/1/2017	\$ 1,151,340.23	\$ 207,241.24	\$ 1,358,581.48
T	Old Colchester Road	New Sanitary Sewer	12/16/2008	5/1/2017	5/1/2017	\$ 768,015.36	\$ 145,922.92	\$ 913,938.28
U	Orchard Terrace	Sidewalk Replacement	10/17/2005	5/1/2017	5/1/2017	\$ 145,767.48	\$ 29,153.50	\$ 174,920.98
V	Pearl Street	New Waterline, 235 Pearl Street to Susie Wilson Road	9/29/2005	5/1/2017	5/1/2017	\$ 278,117.33	\$ 55,623.47	\$ 333,740.80
W	Pearl Street	Waterline Replacement, CVE Water Vault to Hillcrest Road	9/29/2005	Does not need to be completed per Rick Jones				
X	Pearl Street	Waterline Replacement, Hillcrest Road to Curtis Avenue	9/29/2005	Does not need to be completed per Rick Jones				
Y	Railroad Avenue	New Waterline, South of Lincoln Place to Central Street	9/29/2005	5/1/2017	5/1/2017	\$ 163,695.08	\$ 32,739.02	\$ 196,434.10
Z	River Street	Section A, New Curb and Sidewalk, Park Street to Stanton Drive	9/29/2005	5/1/2017	5/1/2017	\$ 165,141.48	\$ 33,028.30	\$ 198,169.78

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

			Original Capital	Estimate Preparation	Cost Reference	Construction	Engineering	Total
	Street Name	Project Description	Plan Date	Date	Date	Cost	Fees	Cost
AA	River Street	Section B, New Curb and Sidewalk, Stanton Drive to Riverside in the Village	9/29/2005	5/1/2017	5/1/2017	\$ 239,866.45	\$ 47,973.29	\$ 287,839.74
BB	Rosewood Lane	Sidewalk Replacement, Mansfield to Briar, north side	9/28/2001	5/1/2017	5/1/2017	\$ 207,045.51	\$ 41,409.10	\$ 248,454.61
CC	South Street	Waterline Replacement, Park Street to Doon Way	6/21/2001	5/1/2017	5/1/2017	\$ 750,134.56	\$ 142,525.57	\$ 892,660.13
DD	South Street	Municipal Water and Sanitary Sewer Improvements	1/10/2009	Does not need to be completed per Rick Jones				
EE	South Summit St	Waterline Replacement, Pearl Street to Cherry Street	6/21/2001	Completed Summer of 2010				
FF	Summit Street	Waterline Replacement, Pearl Street to Prospect Street	9/29/2005	Completed Summer of 2011				
GG	Thasha Lane	Waterline Installation	9/29/2005	Does not need to be completed, Private Development				
HH	West Street	Waterline Replacement, South Summit to Hayden Drive	9/29/2005	5/1/2017	5/1/2017	\$ 838,597.35	\$ 159,333.50	\$ 997,930.84
II	Woods End	Road Reconstruction, Conventional Construction	9/28/2001	Rebuilt using Innovative Concstruction see Project "JJ"				
JJ	Woods End	Road Reconstruction, Innovative Construction	9/28/2001	Completed Summer of 2014				
KK	Main Street	New Drainage, Curb & Sidewalk-Pleasant Street to Bridge, Elevate Educational Drive Intersection	11/24/2003	5/1/2017	5/1/2017	\$ 487,172.81	\$ 97,434.56	\$ 584,607.38
LL	Main Street	New Bridge at Indian Brook, Enclose Drainage, New Curb & Sidewalk, Bridge to Crestview Road	11/24/2003	5/1/2017	5/1/2017	\$ 940,626.23	\$ 178,718.98	\$ 1,119,345.21
MM	Main Street	Enclose Drainage, New Curb & Sidewalk, Crestview Road to Taft Street	11/24/2003	5/1/2017	5/1/2017	\$ 694,984.75	\$ 132,047.10	\$ 827,031.85
NN	Main Street	Enclose Drainage, New Curb & Sidewalk, Taft Street to Athens Drive	2/24/2003	5/1/2017	5/1/2017	\$ 457,781.93	\$ 91,556.39	\$ 549,338.31
SS	Pearl Street	Sidewalk & Lighting Improvements from Mac's Market to Willeys Court	2/3/2009	Completed Summer of 2010				
TT	Pearl Street	Sidewalk and Lighting Improvements from Willeys Court to West Street Extension	2/3/2009	5/1/2017	5/1/2017	\$ 1,318,491.80	\$ 237,328.52	\$ 1,555,820.32
UU	Pearl Street	Sidewalk and Roadway Improvements from West Street to Susie Wilson Road	2/3/2009	5/1/2017	5/1/2017	\$ 771,107.11	\$ 146,510.35	\$ 917,617.46
VV	West Street	Sidewalk Improvements from South Street to Clems Drive	2/18/2009	5/1/2017	5/1/2017	\$ 580,536.53	\$ 110,301.94	\$ 690,838.47
WW	School Street	Water & Sanitary Sewer Improvements, Road Reconstruction	10/3/2013	Completed Summer of 2014				
XX	Maple Street	Replace Existing Drainage Pipe that Crosses Maple Street	11/1/2013	Completed Summer of 2015				
YY	Main Street	Enclose Drainage, New Curb, Bridge to Crestview Road	12/13/2013	Completed Summer of 2015				
YYa	Main Street	Install New Sidewalk and Lighting from Bridge to Crestview Road on the West Side	4/21/2014	5/1/2017	5/1/2017	\$ 226,192.06	\$ 45,238.41	\$ 271,430.48
ZZ	Main Street	Enclose Drainage, New Curb, Crestview Road to Top of Hill	12/13/2013	Completed Summer of 2015				
AAA	Main Street	Enclose Drainage, New Curb, Bridge to Top of Hill on West Side	1/7/2014	Completed Summer of 2015				
BBB	West Street	West St. & West St. Ext. Intersection Improvements	6/14/2014	5/1/2017	5/1/2017	\$ 79,854.24	\$ 15,970.85	\$ 95,825.09
CCC	Maple Street	Replace 300' of Waterline near Maple Street Park	2/20/2015	Completed Summer of 2015				
DDD	Hillcrest Road	Sidewalk Improvements from Pearl Street to Fleming School	4/6/2015	5/1/2017	5/1/2017	\$ 383,169.65	\$ 76,633.93	\$ 459,803.58
EEE	Greenwood Avenue	Drainage Course Improvements at 17 Greenwood Avenue	10/6/2015	5/1/2017	11/1/2016	\$ 33,194.79	\$ 6,638.96	\$ 39,833.75
FFF	West of Pearl	ANR PATH	5/1/2016	5/1/2017	5/1/2017	\$ 605,949.78	\$ 115,130.46	\$ 721,080.23
GGG	South Street	Sidewalk and Drainage Improvements	5/1/2016	5/1/2017	11/1/2016	\$ 94,740.28	\$ 18,948.06	\$ 113,688.34

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

			Original Capital	Estimate Preparation	Cost Reference	Construction	Engineering	Total
	Street Name	Project Description	Plan Date	Date	Date	Cost	Fees	Cost
HHH	Lincoln Hall	Sidewalk, Handicap Ramp and Parking Improvements	5/1/2016	5/1/2017	5/1/2017	\$ 35,073.01	\$ 7,014.60	\$ 42,087.61
III	Rosewood Lane	Road Reconstruction and Sidewalk Replacement	11/3/2016	5/1/2017	5/1/2017	\$ 1,218,676.75	\$ 219,361.82	\$ 1,438,038.57
JJJ	Main Street	Install 8' Wide Pedestrian Bridge over Indian Brook on East Side Main Street	12/9/2016	5/1/2017	5/1/2017	\$ 221,984.94	\$ 44,396.99	\$ 266,381.92

**Note: Use ENR conversion factor for correction to projected construction date.**

Enr Construction Index - December 2008 =	8551.32	
Enr Construction Index - February 2012 =	9198.29	7.5657%
Enr Construction Index - August 2012 =	9359.99	1.7579%
Enr Construction Index - November 2012 =	9398.41	0.4105%
Enr Construction Index - October 2013 =	9551.58	1.6297%
Enr Construction Index - August 2016 =	10385.65	8.7323%

# **WORK CLASSIFICATION SUMMARY**

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Summary of Capital Projects Estimates**

Cost Reference Date: 5/1/2017

Revision Date: 5/1/2017

	Street Name	Project Description	Year Constructed	Construction Category						Total Cost
				Pavement Overlay	Roadway	Waterline	Sanitary Sewer	Storm Drainage	Sidewalk	
A	Abnaki Avenue	Reconstruction of 525 L.F. of Roadway		\$ -	\$ 276,824.02	\$ -	\$ -	\$ -	\$ -	\$ 276,824.02
B	Algonquin Avenue	Reconstruct 230 L.F. of Roadway & Install New Waterline	2012							
C	Algonquin Avenue	New Waterline Installation, Cherokee Ave to Iroquois Ave		\$ -	\$ 138,856.81	\$ 53,466.53	\$ -	\$ -	\$ -	\$ 192,323.34
D	Briar Lane	Sidewalk Replacement	2016							
E	Briar Lane	Waterline and Sidewalk Replacement	2016							
F	Briar Lane	Road Reconstruction, Conventional Construction	No Build							
G	Briar Lane	Road Reconstruction, Innovative Construction	2016							
H	Central Street	Waterline Replacement, Lincoln Street to Main Street		\$ -	\$ 654,104.26	\$ 362,606.53	\$ 5,841.49	\$ 12,053.87	\$ 59,376.62	\$ 1,093,982.78
I	Church Street	Waterline Replacement, Main Street to East Street		\$ 23,226.79	\$ -	\$ 208,431.39	\$ -	\$ -	\$ -	\$ 231,658.18
J	Densmore Drive	Partial Reconstruction and Culvert Replacement		\$ -	\$ 101,620.83	\$ -	\$ -	\$ 269,443.14	\$ 15,569.29	\$ 386,633.26
K	Fairview Farms	Stormwater Pond Improvements	2010							
L	Grant Street	Waterline Replacement, Jackson Street to Maple Street		\$ 26,332.05	\$ 63,450.23	\$ 205,898.95	\$ -	\$ -	\$ -	\$ 295,681.24
M	Grove Street	Replace Sanitary Sewer, Road Reconstruction	2010							
N	Hillcrest Road	Drainage Improvements on Hillcrest, Water & Drainage Improvements on North Hillcrest	2015							
O	Iroquois Avenue	Road Reconstruction, South Summit Street to Park Street, Conventional Construction		\$ -	\$ 860,987.12	\$ 1,920.18	\$ 7,610.34	\$ 146,571.69	\$ -	\$ 1,017,089.33
P	Iroquois Avenue	Road Reconstruction, South Summit Street to Park Street, Innovative Construction		\$ -	\$ 970,996.71	\$ 1,496.62	\$ 7,722.83	\$ 20,189.23	\$ -	\$ 1,000,405.39
Q	Lamoille Street	Waterline Replacement and Roadway Reconstruction		\$ -	\$ 416,756.18	\$ 206,378.18	\$ -	\$ 8,113.27	\$ -	\$ 631,247.63
R	Main Street	Enclose Drainage from Educational Dr. to Athens Dr., New Bridge at Indian Brook		\$ -	\$ 1,375,937.53	\$ -	\$ 18,782.85	\$ 473,534.12	\$ 235,196.81	\$ 2,103,451.31
S	North Street	Replace Waterline, Grove Street to Central Street		\$ -	\$ 623,117.19	\$ 295,165.15	\$ 14,944.73	\$ 120,786.99	\$ 97,326.18	\$ 1,151,340.23
T	Old Colchester Road	New Sanitary Sewer		\$ -	\$ 528,550.83	\$ -	\$ 239,464.53	\$ -	\$ -	\$ 768,015.36
U	Orchard Terrace	Sidewalk Replacement		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 145,767.48	\$ 145,767.48
V	Pearl Street	New Waterline, 235 Pearl Street to Susie Wilson Road		\$ -	\$ -	\$ 278,117.33	\$ -	\$ -	\$ -	\$ 278,117.33
W	Pearl Street	Waterline Replacement, CVE Water Vault to Hillcrest Road	No Build							
X	Pearl Street	Waterline Replacement, Hillcrest Road to Curtis Avenue	No Build							
Y	Railroad Avenue	New Waterline, South of Lincoln Place to Central Street		\$ -	\$ 78,231.26	\$ 85,463.82	\$ -	\$ -	\$ -	\$ 163,695.08
Z	River Street	Section A, New Curb and Sidewalk, Park Street to Stanton Drive		\$ -	\$ 31,393.67	\$ -	\$ -	\$ 29,212.60	\$ 104,535.22	\$ 165,141.48
AA	River Street	Section B, New Curb and Sidewalk, Stanton Drive to Riverside in the Village		\$ -	\$ 42,458.28	\$ -	\$ -	\$ 158,706.86	\$ 38,701.31	\$ 239,866.45
BB	Rosewood Lane	Sidewalk Replacement, Mansfield to Briar, north side		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 207,045.51	\$ 207,045.51
CC	South Street	Waterline Replacement, Park Street to Doon Way		\$ -	\$ 131,530.30	\$ 462,969.34	\$ -	\$ -	\$ 155,634.93	\$ 750,134.56
DD	South Street	Municipal Water and Sanitary Sewer Improvements	No Build							
EE	South Summit	Waterline Replacement, Pearl Street to Cherry Street	2010							
FF	Summit Street	Waterline Replacement, Pearl Street to Prospect Street	2011							
GG	Thasha Lane	Waterline Installation	No Build							
HH	West Street	Waterline Replacement, South Summit to Hayden Drive		\$ -	\$ 334,810.14	\$ 503,787.20	\$ -	\$ -	\$ -	\$ 838,597.35

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Summary of Capital Projects Estimates**

Cost Reference Date: 5/1/2017

Revision Date: 5/1/2017

				Construction Category						
	Street Name	Project Description	Year Constructed	Pavement Overlay	Roadway	Waterline	Sanitary Sewer	Storm Drainage	Sidewalk	Total Cost
II	Woods End	Road Reconstruction, Conventional Construction	No Build							
JJ	Woods End	Road Reconstruction, Innovative Construction	2014							
KK	Main Street	New Drainage, Curb & Sidewalk-Pleasant Street to Bridge, Elevate Educational Drive Intersection		\$ 56,798.07	\$ 231,976.76	\$ -	\$ 7,771.07	\$ 84,828.47	\$ 105,798.44	\$ 487,172.81
LL	Main Street	New Bridge at Indian Brook, Enclose Drainage, New Curb & Sidewalk, Bridge to Crestview Road		\$ 158,051.54	\$ 522,746.15	\$ -	\$ 5,676.76	\$ 147,770.68	\$ 106,381.09	\$ 940,626.23
MM	Main Street	Enclose Drainage, New Curb & Sidewalk, Crestview Road to Taft Street		\$ 125,150.88	\$ 303,570.73	\$ -	\$ 7,691.90	\$ 155,242.43	\$ 103,328.80	\$ 694,984.75
NN	Main Street	Enclose Drainage, New Curb & Sidewalk, Taft Street to Athens Drive		\$ 77,252.13	\$ 182,198.76	\$ -	\$ 1,568.33	\$ 127,142.03	\$ 69,620.68	\$ 457,781.93
SS	Pearl Street	Sidewalk & Lighting Improvements from Mac's Market to Willeys Court	2010							
TT	Pearl Street	Sidewalk and Lighting Improvements from Willeys Court to West Street Extension		\$ -	\$ 180,352.49	\$ 6,807.49	\$ -	\$ 17,775.93	\$ 1,113,555.88	\$ 1,318,491.80
UU	Pearl Street	Sidewalk and Roadway Improvements from West Street to Susie Wilson Road		\$ -	\$ 223,604.16	\$ 8,588.62	\$ -	\$ 47,579.32	\$ 491,335.01	\$ 771,107.11
VV	West Street	Sidewalk Improvements from South Street to Clems Drive		\$ -	\$ -	\$ 17,469.87	\$ -	\$ -	\$ 563,066.66	\$ 580,536.53
WW	School Street	Water & Sanitary Sewer Improvements, Road Reconstruction	2014							
XX	Maple Street	Replace Existing Drainage Pipe that Crosses Maple Street	2015							
YY	Main Street	Enclose Drainage, New Curb, Bridge to Crestview Road	2015							
YYa	Main Street	Install New Sidewalk and Lighting from Bridge to Crestview Road on the West Side		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 226,192.06	\$ 226,192.06
ZZ	Main Street	Enclose Drainage, New Curb, Crestview Road to Top of Hill	2015							
AAA	Main Street	Enclose Drainage, New Curb, Bridge to Top of Hill on West Side	2015							
BBB	West Street	West St. & West St. Ext. Intersection Improvements		\$ 10,671.47	\$ 48,864.57	\$ -	\$ -	\$ 16,289.39	\$ 4,028.80	\$ 79,854.24
CCC	Maple Street	Replace 300' of Waterline near Maple Street Park	2015							
DDD	Hillcrest Road	Sidewalk Improvements from Pearl Street to Fleming School		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 383,169.65	\$ 383,169.65
EEE	Greenwood Avenue	Drainage Course Improvements at 17 Greenwood Avenue		\$ -	\$ -	\$ -	\$ -	\$ 33,194.79	\$ -	\$ 33,194.79
FFF	Pearl Street	ANR Multi Use Path		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 605,949.78	\$ 605,949.78
GGG	South Street	Sidewalk and Drainage Improvements		\$ -	\$ -	\$ -	\$ -	\$ 33,061.51	\$ 57,708.27	\$ 94,740.28
HHH	Lincoln Hall	Sidewalk, Handicap Ramp and Parking Improvements		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 35,073.01	\$ 35,073.01
III	Rosewood Lane	Road Reconstruction and Sidewalk Replacement		\$ -	\$ 1,028,532.18	\$ -	\$ 48,307.70	\$ 12,912.01	\$ 128,924.87	\$ 1,218,676.75
JJJ	Main Street	Install 8' Wide Pedestrian Bridge over Indian Brook on East Side Main Street		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 221,984.94	\$ 221,984.94
Total By Category				\$ 477,482.94	\$ 9,351,471.16	\$ 2,698,567.21	\$ 365,382.53	\$ 1,914,408.32	\$ 5,275,271.29	\$ 20,086,553.95

**Note: All prices shown are 2016 estimated construction dollars. Use ENR conversion factor for correction to projected construction date.**

Enr Construction Index - December 2008 =  
Enr Construction Index - February 2012 =  
Enr Construction Index - August 2012 =  
Enr Construction Index - November 2012 =  
Enr Construction Index - October 2013 =  
Enr Construction Index - August 2016 =

8551.32  
9198.29  
9359.99  
9398.41  
9551.58  
10385.65

7.5657%  
1.7579%  
0.4105%  
1.6297%  
8.7323%

Enterprise Funds Totals \$ 3,063,949.74  
General Funds Total \$ 16,541,150.77  
Pavement Overlay Total \$ 477,482.94  
All Categories Total \$ 20,082,583.45



# **INDIVIDUAL PROJECTS**

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Abnaki Avenue**

**Reconstruction of 525 L.F. of Roadway**

Cost Reference Date: 5/1/2017  
Estimate Preparation Date: 5/1/2017  
Original Capital Plan Date: 11/24/2003

Primary Project Reason:

The existing roadway is subject to severe frost action.

Secondary Project Reason:

Assumptions:

New roadway will have a pavement width of 24' with 1' gravel shoulder.

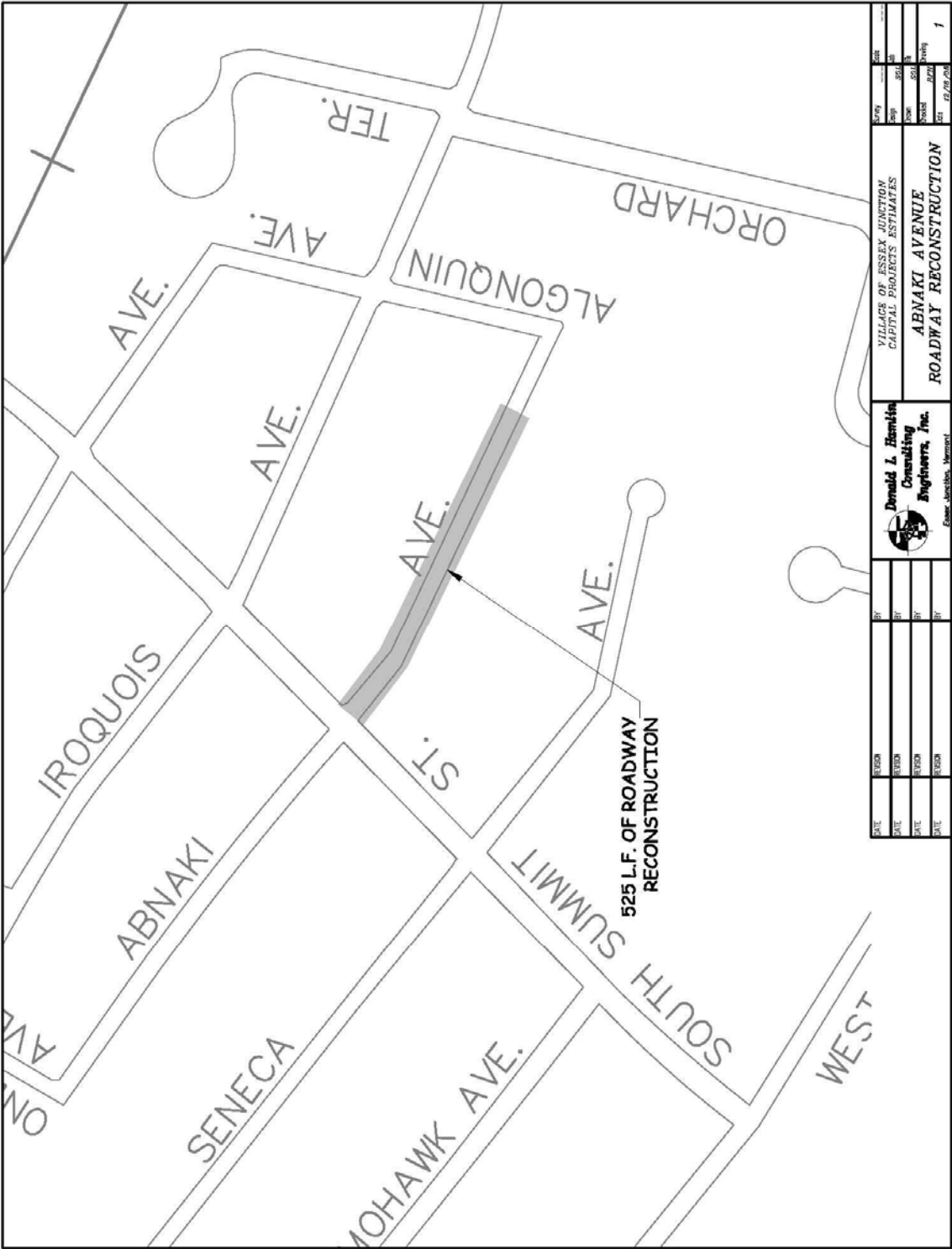
Existing drainage structures will set to new finish grade.

Insulation will be utilized versus underdrain.

A portion of each residential driveway will be rebuilt to match new roadway.

O	Pavement Overlay	\$	-
R	Roadway Reconstruction	\$	276,824.02
W	Waterline Improvements	\$	-
S	Sanitary Sewer Improvements	\$	-
D	Storm Drainage Improvements	\$	-
P	Sidewalk Improvements	\$	-
	Combined Total	\$	276,824.02

Village of Essex Junction  
 Capital Projects  
 Construction Cost Estimate



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Abnaki Avenue**

Cost Reference Date: 5/1/2017

**Reconstruction of 525 L.F. of Roadway**

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	70	lf	\$ 3.35	\$ 234.50
2) Excavation of Pavement 4" to 6" Thick	1,475	sy	\$ 10.19	\$ 15,030.25
3) Excavation for New Roadway Subbase	1,375	cy	\$ 21.00	\$ 28,875.00
4) Sand Borrow	140	cy	\$ 26.47	\$ 3,705.80
5) Dense Graded Crushed Stone	800	cy	\$ 35.96	\$ 28,768.00
6) Plant Mixed Gravel	275	cy	\$ 35.39	\$ 9,732.25
7) 2" Thick Extruded Polystyrene Panels	28,600	sf	\$ 2.07	\$ 59,202.00
8) Bituminous Concrete Pavement - 1-3/4", Type II	1,475	sy	\$ 12.37	\$ 18,245.75
9) Bituminous Concrete Pavement - 1-1/4", Type III	1,475	sy	\$ 9.49	\$ 13,997.75
10) Remove Existing Manhole Frame and Cover, Replace with New	1	each	\$ 1,101.95	\$ 1,101.95
11) Remove & Reset Catch Basin Frame & Grate	6	each	\$ 813.33	\$ 4,879.98
12) Supply & Spread Topsoil	70	cy	\$ 39.89	\$ 2,792.30
13) Seed, Fertilize, Lime and Matting	615	sy	\$ 2.88	\$ 1,771.20
14) New Bituminous Concrete Driveway and Apron	335	sy	\$ 48.34	\$ 16,193.90
15) New Gravel Driveway	70	sy	\$ 35.88	\$ 2,511.60
16) Traffic Control - Type I	20	day	\$ 460.34	\$ 9,206.80
17) Dust Control - Type II	1	ls	\$ 3,452.57	\$ 3,452.57
18) Mobilization	---	---	5%	\$ 10,985.08
Contingency	---	---	20%	\$ 46,137.34

Subtotal	\$	276,824.02
Design Engineering Services	\$	27,682.40
Bidding and Construction Services	\$	27,682.40
Grand Total	\$	332,188.82

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Algonquin Avenue**

**New Waterline Installation, Cherokee Ave to Iroquois Ave**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

Original Capital Plan Date: 10/17/2005

Primary Project Reason:

Install new waterline to complete loop between Cherokee Avenue  
and Iroquois Avenue

Secondary Project Reason:

The existing roadway is subject to severe frost action.

Assumptions:

New roadway will have a pavement width of 24' with 1' gravel shoulder.

Existing drainage structures will set to new finish grade.

Insulation will be utilized versus underdrain.

A portion of each residential driveway will be rebuilt to match new roadway.

O	Pavement Overlay		
R	Roadway Reconstruction	\$	138,856.81
W	Waterline Improvements	\$	53,466.53
S	Sanitary Sewer Improvements		
D	Storm Drainage Improvements		
P	Sidewalk Improvements		
	Combined Total	\$	192,323.34



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Algonquin Avenue**

Cost Reference Date: 5/1/2017

**New Waterline Installation, Cherokee Ave to Iroquois Ave**

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	100	lf	\$ 3.35	\$ 335.00
2) Excavation of Pavement 4" to 6" Thick	750	sy	\$ 10.19	\$ 7,642.50
3) Excavation for New Roadway Subbase	700	cy	\$ 21.00	\$ 14,700.00
4) Sand Borrow	70	cy	\$ 26.47	\$ 1,852.90
5) Dense Graded Crushed Stone	405	cy	\$ 35.96	\$ 14,563.80
6) Plant Mixed Gravel	135	cy	\$ 35.39	\$ 4,777.65
7) 2" Thick Extruded Polystyrene Panels	14,625	sf	\$ 2.07	\$ 30,273.75
8) Bituminous Concrete Pavement - 1-3/4", Type II	750	sy	\$ 12.37	\$ 9,277.50
9) Bituminous Concrete Pavement - 1-1/4", Type III	750	sy	\$ 9.49	\$ 7,117.50
10) Remove & Reset Catch Basin Frame & Grate	2	each	\$ 813.33	\$ 1,626.66
11) Supply & Spread Topsoil	35	cy	\$ 39.89	\$ 1,396.15
12) Seed, Fertilize and Matting	312	sy	\$ 2.88	\$ 898.56
13) Wet Tap (6x6)	1	each	\$ 4,771.79	\$ 4,771.79
14) 8" Ductile Iron Pipe, CL 52	281	lf	\$ 96.53	\$ 27,124.93
15) 8" Gate Valve	1	each	\$ 2,447.87	\$ 2,447.87
16) 8" Mechanical Bends	3	each	\$ 1,150.86	\$ 3,452.58
17) Reducer (8x6)	2	each	\$ 824.97	\$ 1,649.94
18) New Bituminous Concrete Driveway and Apron	105	sy	\$ 35.88	\$ 3,767.40
19) Traffic Control - Type I	20	day	\$ 460.34	\$ 9,206.80
20) Dust Control - Type II	1	ls	\$ 5,754.29	\$ 5,754.29
21) Mobilization	---	---	5%	\$ 7,631.88
Contingency	---	---	20%	\$ 32,053.89

Subtotal	\$	192,323.34
Design Engineering Services	\$	19,232.33
Bidding and Construction Services	\$	19,232.33
Grand Total	\$	230,788.01

**Village of Essex Junction  
Capital Improvements  
Construction Cost Estimate**

**Central Street**

**Waterline Replacement, Lincoln Street to Main Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

Original Capital Plan Date: 9/29/2005

Primary Project Reason:

Replace old and undersized waterline

Secondary Project Reason:

Rebuild roadway

Remove and replace existing sidewalk

Assumptions:

New roadway will have a pavement width of 24' with curb on both sides.

Existing drainage structures will set to new finish grade.

New sidewalk to be 5' wide.

A portion of each residential driveway will be rebuilt to match new roadway.

Existing waterline to remain in service until new waterline is operational.

O	Pavement Overlay	\$	-
R	Roadway Reconstruction	\$	654,104.26
W	Waterline Improvements	\$	362,606.53
S	Sanitary Sewer Improvements	\$	5,841.49
D	Storm Drainage Improvements	\$	12,053.87
P	Sidewalk Improvements	\$	59,376.62
	Combined Total	\$	1,093,982.78





**Village of Essex Junction  
Capital Improvements  
Construction Cost Estimate**

**Central Street**

**Waterline Replacement, Lincoln Street to Main Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Wet Tap (8x8)	1	each	\$ 5,418.62	\$ 5,418.62
2) Wet Tap (6x6)	1	each	\$ 4,771.79	\$ 4,771.79
3) 8" Ductile Iron Pipe, CI 52	1,670	lf	\$ 96.53	\$ 161,205.10
4) 8" Gate Valve with valve box	7	each	\$ 2,447.87	\$ 17,135.09
5) 6" Gate Valve with valve box	2	each	\$ 1,990.98	\$ 3,981.96
6) 8"x8" Tee	6	each	\$ 2,190.08	\$ 13,140.48
7) 8"x6" Tee	2	each	\$ 2,190.08	\$ 4,380.16
8) 4"x4" Tee	1	each	\$ 1,165.53	\$ 1,165.53
9) 8" Mechanical Bends	7	each	\$ 1,150.86	\$ 8,056.02
10) 4" Mechanical Bends	2	each	\$ 627.91	\$ 1,255.82
11) 8"x6" Reducer	1	each	\$ 824.97	\$ 824.97
12) 8"x4" Reducer	1	each	\$ 824.97	\$ 824.97
13) 3/4" Copper Waterline	450	lf	\$ 44.41	\$ 19,984.50
14) 3/4" Corporation Stop	19	each	\$ 636.42	\$ 12,091.98
15) 3/4" Curb Stop	19	each	\$ 287.14	\$ 5,455.66
16) New Hydrant Assembly (Tee, Valve, Hydrant, Glands and 6' Pipe)	2	each	\$ 6,439.05	\$ 12,878.10
17) Saw Cut Existing Pavement 4" Thick	1,000	lf	\$ 3.35	\$ 3,350.00
18) Excavation of Pavement 4" to 6" Thick	4,450	sy	\$ 10.19	\$ 45,345.50
19) Remove Existing Concrete Sidewalk	400	sy	\$ 13.23	\$ 5,292.00
20) Remove Existing Concrete Curb	750	lf	\$ 5.58	\$ 4,185.00
21) Remove and Reset Existing Granite Curb	250	lf	\$ 19.45	\$ 4,862.50
22) Excavation for New Roadway Subbase	4,100	cy	\$ 21.00	\$ 86,100.00
23) Mirafi 500X Geotextile Fabric	4,825	sy	\$ 1.67	\$ 8,057.75
24) Dense Graded Crushed Stone - 24"	3,280	cy	\$ 35.96	\$ 117,948.80
25) Plant Mixed Gravel - 6"	820	cy	\$ 35.39	\$ 29,019.80
26) New Bituminous Concrete Pavement - 1-3/4", Type II	4,450	sy	\$ 12.37	\$ 55,046.50
27) New Bituminous Concrete Pavement - 1-1/4", Type III	4,450	sy	\$ 9.49	\$ 42,230.50
28) New Bituminous Concrete Driveway and Apron	650	sy	\$ 48.34	\$ 31,421.00

**Village of Essex Junction  
Capital Improvements  
Construction Cost Estimate**

**Central Street**

Cost Reference Date: 5/1/2017

**Waterline Replacement, Lincoln Street to Main Street**

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
29) Remove and Reset Existing Catch Basin Frame and Grate	12	each	\$ 813.33	\$ 9,759.96
30) Remove Existing Manhole Frame and Cover, Replace with New	4	each	\$ 1,101.95	\$ 4,407.80
31) New Cement Concrete Sidewalk - 4" Thick	340	sy	\$ 67.90	\$ 23,086.00
32) New Cement Concrete Sidewalk - 6" Thick	170	sy	\$ 92.95	\$ 15,801.50
33) New Cement Concrete Curb	750	lf	\$ 28.20	\$ 21,150.00
34) Supply and Spread Topsoil	425	cy	\$ 39.89	\$ 16,953.25
35) Seed, Fertilize, Lime and Matting	3,700	sy	\$ 2.88	\$ 10,656.00
36) Traffic Control - Type III	60	day	\$ 920.69	\$ 55,241.40
37) Dust Control - Type III	1	ls	\$ 5,754.29	\$ 5,754.29
38) Mobilization	---	---	5%	\$ 43,412.02
Contingency	---	---	20%	\$ 182,330.46

Subtotal \$ 1,093,982.78

Design Engineering Services \$ 87,518.62

Bidding and Construction Services \$ 109,398.28

Grand Total \$ 1,290,899.68

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Church Street**

Cost Reference Date: 5/1/2017

**Waterline Replacement, Main Street to East Street**

Estimate Preparation Date: 5/1/2017

Original Capital Plan Date: 9/29/2005

Primary Project Reason:

Replace existing old and undersized waterline

Secondary Project Reason:

Overlay roadway

Assumptions:

Existing waterline to remain in service until new waterline is operational.

A portion of each residential driveway will be rebuilt to match new roadway.

1-1/4" bituminous pavement overlay.

O	Pavement Overlay	\$	23,226.79
R	Roadway Reconstruction	\$	-
W	Waterline Improvements	\$	208,431.39
S	Sanitary Sewer Improvements	\$	-
D	Storm Drainage Improvements	\$	-
P	Sidewalk Improvements	\$	-
	Combined Total	\$	231,658.18



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Church Street**

Cost Reference Date: 5/1/2017

**Waterline Replacement, Main Street to East Street**

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	1,286	lf	\$ 3.35	\$ 4,308.10
2) Excavation of Pavement 4" to 6" Thick	640	sy	\$ 10.19	\$ 6,521.60
3) Wet Tap (8x8)	2	each	\$ 5,418.62	\$ 10,837.24
4) 8" Ductile Iron Pipe, CI 52	643	lf	\$ 96.53	\$ 62,068.79
5) 3/4" Copper Waterline	200	lf	\$ 44.41	\$ 8,882.00
6) 3/4" Corporation Stop	10	each	\$ 636.42	\$ 6,364.20
7) 3/4" Curb Stop	10	each	\$ 287.14	\$ 2,871.40
8) 24" Plant Mixed Gravel	430	cy	\$ 35.39	\$ 15,217.70
9) New Bituminous Concrete Pavement - 3" Thick Over Trench	640	sy	\$ 55.47	\$ 35,500.80
10) New Bituminous Concrete Pavement - 1-1/4", Type III	1,720	sy	\$ 9.49	\$ 16,322.80
11) Traffic Control - Type I	25	day	\$ 460.34	\$ 11,508.50
12) Dust Control - Type II	1	ls	\$ 3,452.57	\$ 3,452.57
13) Mobilization	---	---	5%	\$ 9,192.79
Contingency	---	---	20%	\$ 38,609.70

Subtotal	\$	231,658.18
Design Engineering Services	\$	23,165.82
Bidding and Construction Services	\$	23,165.82
Grand Total	\$	277,989.82

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Densmore Drive**

**Partial Reconstruction and Culvert Replacement**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

Original Capital Plan Date: 10/17/2005

Primary Project Reason:

The existing GMP culverts are in fair to poor condition and should be replaced.

Secondary Project Reason:

Rebuild roadway and replace sidewalk at culvert replacement.

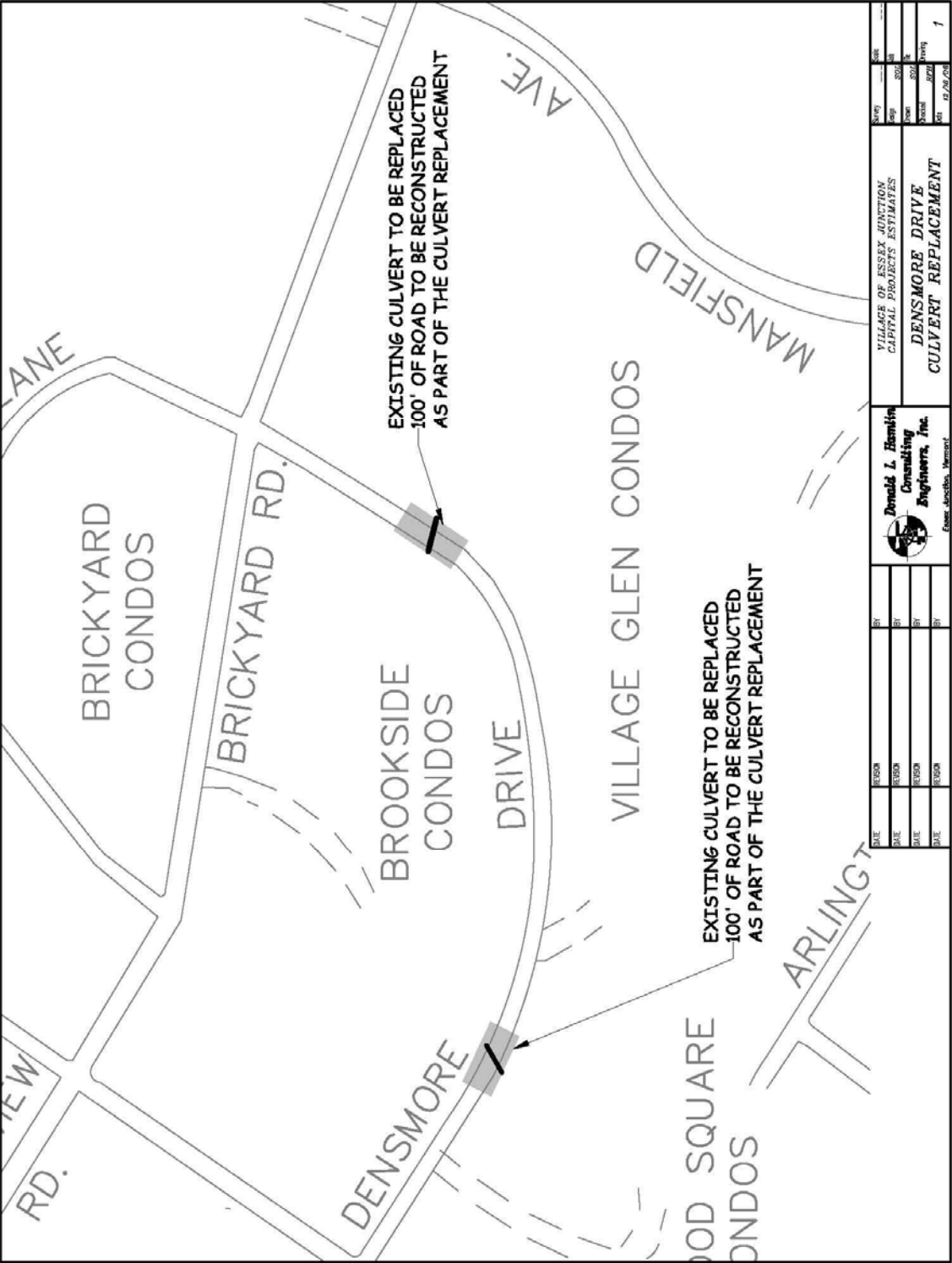
Assumptions:

100' of roadway will be rebuilt over each culvert.

New sidewalk will be installed at the new culvert locations.

O	Pavement Overlay	\$	-
R	Roadway Reconstruction	\$	101,620.83
W	Waterline Improvements	\$	-
S	Sanitary Sewer Improvements	\$	-
D	Storm Drainage Improvements	\$	269,443.14
P	Sidewalk Improvements	\$	15,569.29
	Combined Total	\$	386,633.26

Village of Essex Junction  
 Capital Projects  
 Construction Cost Estimate





**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Densmore Drive**

**Partial Reconstruction and Culvert Replacement**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	180	lf	\$ 3.35	\$ 603.00
2) Excavation of Pavement 4" to 6" Thick	675	sy	\$ 10.19	\$ 6,878.25
3) Excavation for New Roadway Subbase	575	cy	\$ 21.00	\$ 12,075.00
4) Mirafi 500X Geotextile Fabric	675	sy	\$ 1.67	\$ 1,127.25
5) Sand Borrow - 12"	225	cy	\$ 26.47	\$ 5,955.75
6) Dense Graded Crushed Stone - 24"	450	cy	\$ 35.96	\$ 16,182.00
7) Plant Mixed Gravel - 6"	115	cy	\$ 35.39	\$ 4,069.85
8) New Bituminous Concrete Pavement - 1-3/4", Type II	675	sy	\$ 12.37	\$ 8,349.75
9) New Bituminous Concrete Pavement - 1-1/4", Type III	675	sy	\$ 9.49	\$ 6,405.75
10) New Bituminous Concrete Driveway and Apron	30	sy	\$ 48.34	\$ 1,450.20
11) Remove and Reset Existing Catch Basin Frame and Grate	4	each	\$ 813.33	\$ 3,253.32
12) 10' x 4' Concrete Box Culvert	170	lf	\$ 1,179.05	\$ 200,438.50
13) Remove Existing Concrete Sidewalk	115	sy	\$ 13.23	\$ 1,521.45
14) Remove Existing Concrete Curb	400	lf	\$ 5.58	\$ 2,232.00
15) New Cement Concrete Sidewalk - 4" Thick	115	sy	\$ 67.90	\$ 7,808.50
16) New Cement Concrete Curb	400	lf	\$ 28.20	\$ 11,280.00
17) Supply and Spread Topsoil	35	cy	\$ 39.89	\$ 1,396.15
18) Seed, Fertilize, Lime and Matting	300	sy	\$ 2.88	\$ 864.00
19) Traffic Control - Type I	25	day	\$ 460.34	\$ 11,508.50
20) Dust Control - Type II	1	ls	\$ 3,452.57	\$ 3,452.57
21) Mobilization	---	---	5%	\$ 15,342.59
Contingency	---	---	20%	\$ 64,438.88

Subtotal \$ 386,633.26  
Design Engineering Services \$ 38,663.33  
Bidding and Construction Services \$ 38,663.33  
Grand Total \$ 463,959.91

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Grant Street**

**Waterline Replacement, Jackson Street to Maple Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

Original Capital Plan Date: 9/29/2005

Primary Project Reason:

Replace existing old and undersized waterline

Secondary Project Reason:

Overlay roadway

Assumptions:

Existing waterline to remain in service until new waterline is operational.

A portion of each residential driveway will be rebuilt to match new roadway.

1-1/4" bituminous pavement overlay.

O	Pavement Overlay	\$	26,332.05
R	Roadway Reconstruction	\$	63,450.23
W	Waterline Improvements	\$	205,898.95
S	Sanitary Sewer Improvements		
D	Storm Drainage Improvements		
P	Sidewalk Improvements		
	Combined Total	\$	295,681.24

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**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Grant Street**

Cost Reference Date: 5/1/2017

**Waterline Replacement, Jackson Street to McGregor Street**

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	1,600	lf	\$ 3.35	\$ 5,360.00
2) Excavation of Pavement 4" to 6" Thick	750	sy	\$ 10.19	\$ 7,642.50
3) Wet Tap (12x8)	1	each	\$ 6,870.62	\$ 6,870.62
4) Wet Tap (6x6)	1	each	\$ 4,771.79	\$ 4,771.79
5) 8" Ductile Iron Pipe, CI 52	650	lf	\$ 96.53	\$ 62,744.50
6) 8" Mechanical Bends	1	each	\$ 1,150.86	\$ 1,150.86
7) 8" Gate Valve	2	each	\$ 2,447.87	\$ 4,895.74
8) 8" x 6" Reducer	2	each	\$ 824.97	\$ 1,649.94
9) 8" X 6" Tee	1	each	\$ 2,190.08	\$ 2,190.08
10) 12" x 8" Reducer	1	each	\$ 1,685.00	\$ 1,685.00
11) 6" Mechanical Bends	3	each	\$ 799.85	\$ 2,399.55
12) 3/4" Corporation Stop	13	each	\$ 636.42	\$ 8,273.46
13) 3/4" Curb Stop	13	each	\$ 287.14	\$ 3,732.82
14) 3/4" Copper Waterline	260	lf	\$ 44.41	\$ 11,546.60
15) 24" Plant Mixed Gravel	500	cy	\$ 35.39	\$ 17,695.00
16) New Bituminous Concrete Pavement - 3" Thick Over Trench	750	sy	\$ 55.47	\$ 41,602.50
17) New Bituminous Concrete Pavement - 1-1/4", Type III	1,800	sy	\$ 9.49	\$ 17,082.00
18) Traffic Control - Type II	40	day	\$ 690.51	\$ 27,620.40
19) Dust Control - Type III	1	ls	\$ 5,754.29	\$ 5,754.29
20) Mobilization	---	---	5%	\$ 11,733.38
Contingency	---	---	20%	\$ 49,280.21

Subtotal \$ 295,681.24  
Design Engineering Services \$ 29,568.12  
Bidding and Construction Services \$ 29,568.12  
Grand Total \$ 354,817.49

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Iroquois Avenue**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Road Reconstruction, South Summit Street to Park Street, Conventional Construction**

Original Capital Plan Date: 9/28/2001

Primary Project Reason:

Reconstruct the existing 24' wide roadway

Secondary Project Reason:

Assumptions:

New roadway will have a pavement width of 24'

Existing drainage structures will set to new finish grade.

Remove and reset existing granite curb.

A portion of each residential driveway will be rebuilt to match new roadway.

O	Pavement Overlay	\$	-
R	Roadway Reconstruction	\$	860,987.12
W	Waterline Improvements	\$	1,920.18
S	Sanitary Sewer Improvements	\$	7,610.34
D	Storm Drainage Improvements	\$	146,571.69
P	Sidewalk Improvements	\$	-
	Combined Total	\$	1,017,089.33

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**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Iroquois Avenue**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Road Reconstruction, South Summit Street to Park Street, Conventional Construction**

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	950	lf	\$ 3.35	\$ 3,182.50
2) Excavation of Pavement 4" to 6" Thick	5,350	sy	\$ 10.19	\$ 54,516.50
3) Excavation for New Roadway Subbase	6,250	cy	\$ 21.00	\$ 131,250.00
4) Mirafi 500X Geotextile Fabric	4,950	sy	\$ 1.67	\$ 8,266.50
5) Sand Borrow - 12"	1,800	cy	\$ 26.47	\$ 47,646.00
6) Dense Graded Crushed Stone - 24"	3,575	cy	\$ 35.96	\$ 128,557.00
7) Plant Mixed Gravel - 6"	900	cy	\$ 35.39	\$ 31,851.00
8) New Bituminous Concrete Pavement - 1-3/4", Type II	4,950	sy	\$ 12.37	\$ 61,231.50
9) New Bituminous Concrete Pavement - 1-1/4", Type III	4,950	sy	\$ 9.49	\$ 46,975.50
10) New Bituminous Concrete Driveway and Apron	460	sy	\$ 48.34	\$ 22,236.40
11) Remove and Reset Existing Catch Basin Frame and Grate	17	each	\$ 813.33	\$ 13,826.61
12) Adjust Existing Gate Valve Box to New Finish Grade	6	each	\$ 203.33	\$ 1,219.98
13) Underdrain	3,700	lf	\$ 23.49	\$ 86,913.00
14) Underdrain Cleanout	8	each	\$ 258.94	\$ 2,071.52
15) Connect New Underdrain to Existing Structure	8	each	\$ 918.80	\$ 7,350.40
16) Remove Existing Manhole Frame and Cover, Replace with New	5	each	\$ 1,101.95	\$ 5,509.75
17) Remove and Reset Existing Granite Curb	3,700	lf	\$ 19.45	\$ 71,965.00
18) Supply and Spread Topsoil	200	cy	\$ 39.89	\$ 7,978.00
19) Seed, Fertilize, Lime and Matting	1,550	sy	\$ 2.88	\$ 4,464.00
20) Traffic Control - Type III	70	day	\$ 920.69	\$ 64,448.30
21) Dust Control - Type III	1	ls	\$ 5,754.29	\$ 5,754.29
22) Mobilization	---	---	5%	\$ 40,360.69
Contingency	---	---	20%	\$ 169,514.89

Subtotal \$ 1,017,089.33  
Design Engineering Services \$ 81,367.15  
Bidding and Construction Services \$ 101,708.93  
Grand Total \$ 1,200,165.40

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Iroquois Avenue**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Road Reconstruction, South Summit Street to Park Street, Innovative Construction**

Original Capital Plan Date: 9/28/2001

Primary Project Reason:

Reconstruct the existing 24' wide roadway

Secondary Project Reason:

Assumptions:

New roadway will have a pavement width of 24'

Existing drainage structures will set to new finish grade.

Remove and reset existing granite curb.

A portion of each residential driveway will be rebuilt to match new roadway.

Insulation will be utilized instead of underdrain.

O	Pavement Overlay	\$	-
R	Roadway Reconstruction	\$	970,996.71
W	Waterline Improvements	\$	1,496.62
S	Sanitary Sewer Improvements	\$	7,722.83
D	Storm Drainage Improvements	\$	20,189.23
P	Sidewalk Improvements	\$	-
	Combined Total	\$	1,000,405.39





**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Iroquois Avenue**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Road Reconstruction, South Summit Street to Park Street, Innovative Construction**

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	950	lf	\$ 3.35	\$ 3,182.50
2) Excavation of Pavement 4" to 6" Thick	5,350	sy	\$ 10.19	\$ 54,516.50
3) Excavation for New Roadway Subbase	4,325	cy	\$ 21.00	\$ 90,825.00
3) Sand Borrow - 3"	460	cy	\$ 26.47	\$ 12,176.20
4) New 2" Thick Extruded Polystyrene Insulation	96,000	sf	\$ 2.07	\$ 198,720.00
5) Dense Graded Crushed Stone - 18"	2,700	cy	\$ 35.96	\$ 97,092.00
6) Plant Mixed Gravel - 6"	900	cy	\$ 35.39	\$ 31,851.00
7) New Bituminous Concrete Pavement - 1-3/4", Type II	4,950	sy	\$ 12.37	\$ 61,231.50
8) New Bituminous Concrete Pavement - 1-1/4", Type III	4,950	sy	\$ 9.49	\$ 46,975.50
9) New Bituminous Concrete Driveway and Apron	460	sy	\$ 48.34	\$ 22,236.40
10) Remove and Reset Existing Catch Basin Frame and Grate	17	each	\$ 813.33	\$ 13,826.61
11) Adjust Existing Gate Valve Box to New Finish Grade	6	each	\$ 203.33	\$ 1,219.98
12) Remove Existing Manhole Frame and Cover, Replace with New	5	each	\$ 1,101.95	\$ 5,509.75
13) Remove and Reset Existing Granite Curb	3,700	lf	\$ 19.45	\$ 71,965.00
14) Supply and Spread Topsoil	200	cy	\$ 39.89	\$ 7,978.00
15) Seed, Fertilize, Lime and Matting	1,550	sy	\$ 2.88	\$ 4,464.00
16) Traffic Control - Type III	70	day	\$ 920.69	\$ 64,448.30
17) Dust Control - Type III	1	ls	\$ 5,754.29	\$ 5,754.29
18) Mobilization	---	---	5%	\$ 39,698.63
Contingency	---	---	20%	\$ 166,734.23

Subtotal \$ 1,000,405.39

Design Engineering Services \$ 80,032.43

Bidding and Construction Services \$ 100,040.54

Grand Total \$ 1,180,478.36

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Lamoille Street**

**Waterline Replacement and Roadway Reconstruction**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

Original Capital Plan Date: 9/29/2005

Primary Project Reason:

Replace existing undersized and old waterline

Secondary Project Reason:

Rebuild roadway in area of waterline replacement

Assumptions:

New roadway will have a pavement width of 24' with 1' gravel shoulder.

Existing drainage structures will set to new finish grade.

Existing waterline will remain in service until new waterline is operational.

A portion of each residential driveway will be rebuilt to match new roadway.

O	Pavement Overlay	\$	-
R	Roadway Reconstruction	\$	416,756.18
W	Waterline Improvements	\$	206,378.18
S	Sanitary Sewer Improvements	\$	-
D	Storm Drainage Improvements	\$	8,113.27
P	Sidewalk Improvements	\$	-
	Combined Total	\$	631,247.63

**VILLAGE OF ESSEX FUNCTION CAPITAL PROJECTS ESTIMATES**

**LAMOILLE STREET WATERLINE**

Donald L. Hamilton  
Consulting Engineers, Inc.

DATE	REVISION	BY	CHKD	APP'D

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Lamoille Street**

Cost Reference Date: 5/1/2017

**Waterline Replacement and Roadway Reconstruction**

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	725	lf	\$ 3.35	\$ 2,428.75
2) Excavation of Pavement 4" to 6" Thick	2,750	sy	\$ 10.19	\$ 28,022.50
3) Excavation for New Roadway Subbase	3,450	cy	\$ 21.00	\$ 72,450.00
4) Mirafi 500X Geotextile Fabric	3,000	sy	\$ 1.67	\$ 5,010.00
5) Sand Borrow - 12"	990	cy	\$ 26.47	\$ 26,205.30
6) Dense Graded Crushed Stone - 24"	1,975	cy	\$ 35.96	\$ 71,021.00
7) Plant Mixed Gravel - 6"	500	cy	\$ 35.39	\$ 17,695.00
8) New Bituminous Concrete Pavement - 1-3/4", Type II	2,725	sy	\$ 12.37	\$ 33,708.25
9) New Bituminous Concrete Pavement - 1-1/4", Type III	2,725	sy	\$ 9.49	\$ 25,860.25
10) New Bituminous Concrete Driveway and Apron	560	sy	\$ 48.34	\$ 27,070.40
11) Remove and Reset Existing Catch Basin Frame and Grate	7	each	\$ 813.33	\$ 5,693.31
12) Wet Tap (8x8)	1	each	\$ 5,418.62	\$ 5,418.62
13) 8" Gate Valve	2	each	\$ 4,771.79	\$ 1,897.76
14) 8" Ductile Iron Pipe, CI 52	1,020	lf	\$ 81.72	\$ 83,354.40
15) 8" Mechanical Bends	2	each	\$ 799.85	\$ 2,447.87
16) Reducer (8x6)	2	each	\$ 824.97	\$ 1,649.94
17) New Hydrant Assembly (Tee, Valve, Hydrant, Glands and 6' Pipe)	2	each	\$ 6,439.05	\$ 12,878.10
18) 3/4" Copper Waterline	520	lf	\$ 44.41	\$ 23,093.20
19) 3/4" Corporation Stop	26	each	\$ 636.42	\$ 16,546.92
20) 3/4" Curb Stop	26	each	\$ 287.14	\$ 7,465.64
21) Traffic Control - Type I	60	day	\$ 460.34	\$ 27,620.40
22) Dust Control - Type II	1	ls	\$ 3,452.57	\$ 3,452.57
23) Mobilization	---	---	5%	\$ 25,049.51
Contingency	---	---	20%	\$ 105,207.94

Subtotal	\$	631,247.63
Design Engineering Services	\$	56,812.29
Bidding and Construction Services	\$	63,124.76
Grand Total	\$	751,184.68

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Main Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Enclose Drainage from Educational Dr. to Athens Dr., New Bridge at Indian Brook**

Original Capital Plan Date: 10/15/2003

Primary Project Reason:

Install New 5' wide sidewalk

Enclose storm Drainage

Secondary Project Reason:

Replace old Bridge

Assumptions:

5' Wide sidewalk.

New bridge is an arch culvert

Two way traffic maintained

A portion of each residential driveway will be rebuilt to match new roadway.

O	Pavement Overlay	\$	-
R	Roadway Reconstruction	\$	1,375,937.53
W	Waterline Improvements	\$	-
S	Sanitary Sewer Improvements	\$	18,782.85
D	Storm Drainage Improvements	\$	473,534.12
P	Sidewalk Improvements	\$	235,196.81
	Combined Total	\$	2,103,451.31

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**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Main Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Enclose Drainage from Educational Dr. to Athens Dr., New Bridge at Indian Brook**

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	400	lf	\$ 3.35	\$ 1,340.00
2) Remove Existing Concrete Curb	1,100	lf	\$ 5.58	\$ 6,138.00
3) Excavation of Pavement 4" to 6" Thick	3,850	sy	\$ 10.19	\$ 39,231.50
4) Remove Existing Concrete Sidewalk	562	sy	\$ 13.23	\$ 7,435.26
5) Remove Existing Pipe - To 8' Deep	525	lf	\$ 16.22	\$ 8,515.50
6) Remove Existing Pipe - 8' to 12' Deep	600	lf	\$ 24.32	\$ 14,592.00
7) Remove Existing Structure - 8' to 12' Deep	9	each	\$ 1,086.41	\$ 9,777.69
8) Silt Fence	1,200	lf	\$ 3.05	\$ 3,660.00
9) Remove Existing Manhole Frame and Cover, Replace with New	13	each	\$ 1,101.95	\$ 14,325.35
10) Test Excavation	20	each	\$ 556.37	\$ 11,127.40
11) Remove and Reset Existing Catch Basin Frame and Grate	1	each	\$ 813.33	\$ 813.33
12) Catch Basin - 4' Dia., To 8' Deep	20	each	\$ 4,223.58	\$ 84,471.60
13) 18" HDPE Drainage Pipe - To 8' Deep	3,000	lf	\$ 68.05	\$ 204,150.00
14) Type I Rip Rap for Outfall Pads	40	cy	\$ 109.33	\$ 4,373.20
15) Excavation for New Roadway Subbase	2,200	cy	\$ 21.00	\$ 46,200.00
16) Sand Borrow	625	cy	\$ 26.47	\$ 16,543.75
17) Dense Graded Crushed Stone	1,300	cy	\$ 35.96	\$ 46,748.00
18) Plant Mixed Gravel	1,100	cy	\$ 35.39	\$ 38,929.00
19) New Cement Concrete Curb	4,350	lf	\$ 28.20	\$ 122,670.00
20) New Cement Concrete Sidewalk - 4" Thick	2,000	sy	\$ 67.90	\$ 135,800.00
21) New Cement Concrete Sidewalk - 6" Thick	300	sy	\$ 92.95	\$ 27,885.00
22) New Bituminous Concrete Pavement - 4" Thick Over Trench	5,750	sy	\$ 65.02	\$ 373,865.00
23) New Bituminous Concrete Driveway and Apron	975	sy	\$ 48.34	\$ 47,131.50
24) New Gravel Driveway	450	sy	\$ 35.88	\$ 16,146.00
25) 4" White Line - Painted	4,700	lf	\$ 1.07	\$ 5,029.00
26) 4" Yellow Line - Painted	2,000	lf	\$ 1.07	\$ 2,140.00
27) 24" Wide Stop Bar - Painted	175	lf	\$ 7.80	\$ 1,365.00
28) 12" Wide Crosswalk Bar - Painted	800	lf	\$ 7.48	\$ 5,984.00



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Main Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Enclose Drainage from Educational Dr. to Athens Dr., New Bridge at Indian Brook**

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
29) Symbol or Letter - Painted	40	each	\$ 127.75	\$ 5,110.00
30) Supply and Spread Topsoil	1,000	cy	\$ 39.89	\$ 39,890.00
31) Seed, Fertilize, Lime and Matting	8,500	sy	\$ 2.88	\$ 24,480.00
32) Temporary Bridge	1	ls	\$ 72,158.75	\$ 72,158.75
33) New Bridge (Arch Culvert) at Indian Brook	1	ls	\$ 108,238.13	\$ 108,238.13
34) Traffic Control = Type IV	85	day	\$ 1,381.03	\$ 117,387.55
35) Dust Control - Type III	1	ls	\$ 5,754.29	\$ 5,754.29
36) Mobilization	---	---	5%	\$ 83,470.29
Contingency	---	---	20%	\$ 350,575.22

Subtotal \$ 2,103,451.31  
Design Engineering Services \$ 168,276.10  
Bidding and Construction Services \$ 210,345.13  
Grand Total \$ 2,482,072.54

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**North Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Replace Waterline, Grove Street to Central Street**

Original Capital Plan Date: 9/29/2005

Primary Project Reason:

Replace old and undersized waterline

Secondary Project Reason:

Rebuild roadway because of deep excavation

Rebuild storm drainage

Assumptions:

New roadway will have a pavement width of 24' with curb.

Existing waterline will remain in use until new waterline is operational.

New 5' sidewalk on one side of the road.

O	Pavement Overlay	\$	-
R	Roadway Reconstruction	\$	623,117.19
W	Waterline Improvements	\$	295,165.15
S	Sanitary Sewer Improvements	\$	14,944.73
D	Storm Drainage Improvements	\$	120,786.99
P	Sidewalk Improvements	\$	97,326.18
	Combined Total	\$	1,151,340.23



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**North Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Replace Waterline, Grove Street to Central Street**

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	640	lf	\$ 3.35	\$ 2,144.00
2) Excavation of Pavement 4" to 6" Thick	3,940	sy	\$ 10.19	\$ 40,148.60
3) Remove Existing Concrete Curb	1,325	lf	\$ 5.58	\$ 7,393.50
4) Remove Existing Concrete Sidewalk	590	sy	\$ 13.23	\$ 7,805.70
5) Excavation for New Roadway Subbase	3,925	cy	\$ 21.00	\$ 82,425.00
6) Dense Graded Crushed Stone	3,140	cy	\$ 35.96	\$ 112,914.40
7) Plant Mixed Gravel	785	cy	\$ 35.39	\$ 27,781.15
8) Mirafi 500X Geotextile Fabric	4,715	sy	\$ 1.67	\$ 7,874.05
9) New Bituminous Concrete Pavement - 1-3/4", Type II	4,405	sy	\$ 12.37	\$ 54,489.85
10) New Bituminous Concrete Pavement - 1-1/4", Type III	4,405	sy	\$ 9.49	\$ 41,803.45
11) New Bituminous Concrete Driveway and Apron	600	sy	\$ 48.34	\$ 29,004.00
12) New Cement Concrete Curb	2,650	lf	\$ 28.20	\$ 74,730.00
13) New Cement Concrete Sidewalk - 4" Thick	510	sy	\$ 67.90	\$ 34,629.00
14) New Cement Concrete Sidewalk - 6" Thick	235	sy	\$ 92.95	\$ 21,843.25
15) Wet Tap (8x8)	1	each	\$ 5,418.62	\$ 5,418.62
16) Wet Tap (4x4)	1	each	\$ 4,280.35	\$ 4,280.35
17) 8" Ductile Iron Pipe, CI 52	1,365	lf	\$ 96.53	\$ 131,763.45
18) 8" Mechanical Bends	2	each	\$ 1,150.86	\$ 2,301.72
19) Reducer (8x4)	1	each	\$ 824.97	\$ 824.97
20) 8" Gate Valve with Valve Box	2	each	\$ 2,447.87	\$ 4,895.74
21) New Hydrant Assembly (Tee, Valve, Hydrant, Glands and 6' Pipe)	2	each	\$ 6,439.05	\$ 12,878.10
22) 3/4" Corporation Stop	27	each	\$ 636.42	\$ 17,183.34
23) 3/4" Curb Stop	27	each	\$ 287.14	\$ 7,752.78
24) 3/4" Copper Waterline	550	lf	\$ 44.41	\$ 24,425.50
25) Remove Existing Manhole Frame and Cover, Replace with New	5	each	\$ 1,101.95	\$ 5,509.75

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**North Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Replace Waterline, Grove Street to Central Street**

ITEM	QUANTITY	UNIT	PRICE	TOTAL
27) Connect New Pipe to Existing Structure	1	each	\$ 918.80	\$ 918.80
28) Catch Basin - 4' Dia., To 8' Deep	6	each	\$ 4,223.58	\$ 25,341.48
29) 15" HDPE Drainage Pipe - To 8' Deep	900	lf	\$ 58.51	\$ 52,659.00
30) Supply & Spread Topsoil	385	cy	\$ 39.89	\$ 15,357.65
31) Seed, Fertilize and Matting	3,500	sy	\$ 2.88	\$ 10,080.00
32) Traffic Control - Type II	60	day	\$ 690.51	\$ 41,430.60
33) Dust Control - Type III	1	ls	\$ 5,754.29	\$ 5,754.29
34) Mobilization	---	---	5%	\$ 45,688.10
Contingency	---	---	20%	\$ 191,890.04

Subtotal \$ 1,151,340.23

Design Engineering Services \$ 92,107.22

Bidding and Construction Services \$ 115,134.02

Grand Total \$ 1,358,581.48

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Old Colchester Road  
New Sanitary Sewer**

Cost Reference Date: 5/1/2017  
Estimate Preparation Date: 5/1/2017  
Original Capital Plan Date: 12/16/2008

Primary Project Reason:

Install New Municipal Sanitary Sewer.

Secondary Project Reason:

Roadway Reconstruction due to depth of sewer installation.

Assumptions:

New roadway will have a pavement width of 24' with 1' gravel shoulder.

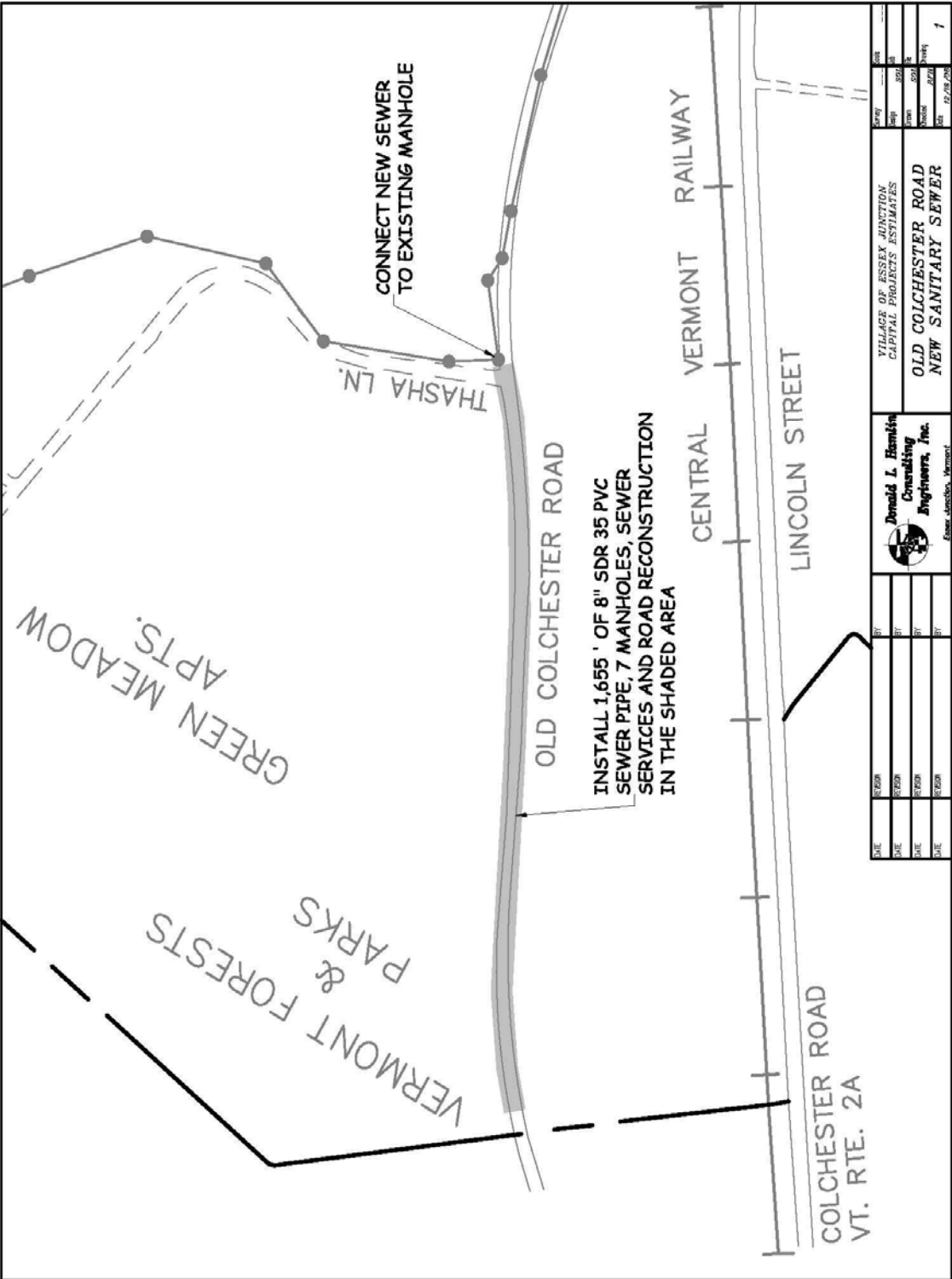
New 8" SDR PVC Sewer Pipe.

8' to 12' Deep Structures.

A portion of each residential driveway will be rebuilt to match new roadway.

O	Pavement Overlay	\$	-
R	Roadway Reconstruction	\$	528,550.83
W	Waterline Improvements	\$	-
S	Sanitary Sewer Improvements	\$	239,464.53
D	Storm Drainage Improvements	\$	-
P	Sidewalk Improvements	\$	-
	Combined Total	\$	768,015.36

Village of Essex Junction  
 Capital Projects  
 Construction Cost Estimate



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Old Colchester Road**

Cost Reference Date: 5/1/2017

**New Sanitary Sewer**

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	80	lf	\$ 3.35	\$ 268.00
2) Excavation of Pavement 4" to 6" Thick	4,535	sy	\$ 10.19	\$ 46,211.65
3) Excavation for New Roadway Subbase	4,100	cy	\$ 21.00	\$ 86,100.00
4) 24" Dense Graded Crushed Stone	3,275	cy	\$ 35.96	\$ 117,769.00
5) 6" Plant Mixed Gravel	825	cy	\$ 35.39	\$ 29,196.75
6) Bituminous Concrete Pavement - 1-3/4", Type II	4,550	sy	\$ 12.37	\$ 56,283.50
7) Bituminous Concrete Pavement - 1-1/4", Type III	4,550	sy	\$ 9.49	\$ 43,179.50
8) Sanitary Sewer Manhole - 4' Dia., 8' to 12' Deep	7	each	\$ 6,406.29	\$ 44,844.03
9) 8" SDR 35 PVC Sewer Pipe - 8' to 12' Deep	1,655	lf	\$ 69.05	\$ 114,277.75
10) 6" SDR 35 PVC Sewer Pipe - 8' to 12' Deep	360	lf	\$ 69.05	\$ 24,858.00
11) Supply & Spread Topsoil	200	cy	\$ 39.89	\$ 7,978.00
12) Seed, Fertilize and Matting	1,900	sy	\$ 2.88	\$ 5,472.00
13) New Bituminous Concrete Driveway and Apron	100	sy	\$ 48.34	\$ 4,834.00
14) New Gravel Driveway Repair	50	sy	\$ 35.88	\$ 1,794.00
15) Traffic Control - Type III	25	day	\$ 920.69	\$ 23,017.25
16) Dust Control - Type II	1	ls	\$ 3,452.57	\$ 3,452.57
17) Mobilization	---	---	5%	\$ 30,476.80
Contingency	---	---	20%	\$ 128,002.56

Subtotal	\$	768,015.36
Design Engineering Services	\$	69,121.38
Bidding and Construction Services	\$	76,801.54
Grand Total	\$	913,938.28



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Orchard Terrace  
Sidewalk Replacement**

Cost Reference Date: 5/1/2017  
Estimate Preparation Date: 5/1/2017  
Original Capital Plan Date: 10/17/2005

Primary Project Reason:

Replace existing sidewalk with new sidewalk

Secondary Project Reason:

Assumptions:

New walk on one side only.

New sidewalk to be 5' wide.

Walk removed from one side and replaced with new lawn.

A portion of each residential driveway will be rebuilt to match new sidewalk.

O	Pavement Overlay	\$	-
R	Roadway Reconstruction	\$	-
W	Waterline Improvements	\$	-
S	Sanitary Sewer Improvements	\$	-
D	Storm Drainage Improvements	\$	-
P	Sidewalk Improvements	\$	145,767.48
	Combined Total	\$	145,767.48

[illegible]

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Orchard Terrace  
Sidewalk Replacement**

Cost Reference Date: 5/1/2017  
Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 3" Thick or Less	400	lf	\$ 2.30	\$ 920.00
2) Excavation of Pavement to 3" Thick	375	sy	\$ 6.21	\$ 2,328.75
3) Remove Existing Concrete Sidewalk	500	sy	\$ 13.23	\$ 6,615.00
4) New Cement Concrete Sidewalk - 4" Thick	840	sy	\$ 67.90	\$ 57,036.00
5) New Cement Concrete Sidewalk - 6" Thick	190	sy	\$ 92.95	\$ 17,660.50
6) New Bituminous Concrete Driveway and Apron	375	sy	\$ 48.34	\$ 18,127.50
7) Supply and Spread Topsoil	50	cy	\$ 39.89	\$ 1,994.50
8) Seed, Fertilize, Lime and Matting	425	sy	\$ 2.88	\$ 1,224.00
9) Traffic Control - Type I	20	day	\$ 460.34	\$ 9,206.80
10) Dust Control - Type I	1	ls	\$ 575.43	\$ 575.43
11) Mobilization	---	---	5%	\$ 5,784.42
Contingency	---	---	20%	\$ 24,294.58

Subtotal \$ 145,767.48  
Design Engineering Services \$ 14,576.75  
Bidding and Construction Services \$ 14,576.75  
Grand Total \$ 174,920.98

The work includes the following components:

- A - Remove and replace walk on west side, north of Iroquois Avenue
- B - Remove and replace walk on west side, south of Iroquois Avenue

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Pearl Street**

**New Waterline, 235 Pearl Street to Susie Wilson Road**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

Original Capital Plan Date: 9/29/2005

Primary Project Reason:

Replace existing old and undersized waterline.

Secondary Project Reason:

Assumptions:

New waterline installed by directional bore.

All water services from new waterline to each resident

Existing waterline remains in use until new waterline is operationl.

O	Pavement Overlay	\$	-
R	Roadway Reconstruction	\$	-
W	Waterline Improvements	\$	278,117.33
S	Sanitary Sewer Improvements	\$	-
D	Storm Drainage Improvements	\$	-
P	Sidewalk Improvements	\$	-
	Combined Total	\$	278,117.33

REPLACE EXISTING 4" WATERLINE  
IN SHADED AREA WITH  
8" x 950' HDPE PIPE  
(7) SERVICE RECONNECTIONS

(3) NEW HYDRANT  
ASSEMBLIES

SUSIE WILSON ROAD

VT. RTE. 15

TOWN HYD. #1

PEARL STREET 4"

THE MAPLES  
CONDOS

20" D.I.  
CWD

6" C.I.

BASHA'S VAULT, M-19

PINE CT.

6" C.I.

ST. STREET 10'

XTENSION

DATE	REVISION	BY
DATE	REVISION	BY
DATE	REVISION	BY
DATE	REVISION	BY

**Donald L. Hamilton**  
Consulting  
Engineers, Inc.

VILLAGE OF ESSEX JUNCTION  
CAPITAL PROJECTS ESTIMATES

**PEARL STREET 1**  
**WATERLINE REPLACEMENT**

Drawn: [ ]  
Check: [ ]  
Date: [ ]  
Scale: [ ]  
Sheet: [ ] of [ ]

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Pearl Street**

Cost Reference Date: 5/1/2017

**New Waterline, 235 Pearl Street to Susie Wilson Road**

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	530	lf	\$ 3.35	\$ 1,775.50
2) Excavation of Pavement 4" to 6" Thick	200	sy	\$ 10.19	\$ 2,038.00
3) Remove and Reset Existing Granite Curb	160	lf	\$ 19.45	\$ 3,112.00
4) 8" HDPE Waterline by Directional Bore	920	lf	\$ 118.76	\$ 109,259.20
5) 6" Ductile Iron Pipe, CI 52	40	lf	\$ 81.72	\$ 3,268.80
6) 6" Tee	1	each	\$ 1,542.15	\$ 1,542.15
7) 6" Gate Valve with Valve Box	1	each	\$ 1,990.98	\$ 1,990.98
8) New Hydrant Assembly (Tee, Valve, Hydrant, Glands and 6' Pipe)	3	each	\$ 6,439.05	\$ 19,317.15
9) HDPE Fusing Coupling	8	each	\$ 776.31	\$ 6,210.48
10) 3/4" Copper Waterline	140	lf	\$ 44.41	\$ 6,217.40
11) 3/4" Corporation Stop	7	each	\$ 636.42	\$ 4,454.94
12) 3/4" Curb Stop	7	each	\$ 287.14	\$ 2,009.98
13) Cap and Abandon Existing 4" Waterline	2	each	\$ 3,826.89	\$ 7,653.78
14) Plant Mixed Gravel - 24"	100	cy	\$ 35.39	\$ 3,539.00
15) New Bituminous Concrete Pavement - 4" Thick Over Trench	40	sy	\$ 65.02	\$ 2,600.80
16) Excavation Pit on Route 15	11	each	\$ 1,150.86	\$ 12,659.46
17) Supply and Spread Topsoil	25	cy	\$ 39.89	\$ 997.25
18) Seed, Fertilize, Lime and Matting	350	sy	\$ 2.88	\$ 1,008.00
19) Traffic Control - Type IV	20	day	\$ 1,381.03	\$ 27,620.60
20) Dust Control - Type II	1	ls	\$ 3,452.57	\$ 3,452.57
21) Mobilization	---	---	5%	\$ 11,036.40
Contingency	---	---	20%	\$ 46,352.89

Subtotal \$ 278,117.33

Design Engineering Services \$ 27,811.73

Bidding and Construction Services \$ 27,811.73

Grand Total \$ 333,740.80

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Railroad Avenue**

Cost Reference Date: 5/1/2017

**New Waterline, South of Lincoln Place to Central Street**

Estimate Preparation Date: 5/1/2017

Original Capital Plan Date: 9/29/2005

Primary Project Reason:

Install new waterline for improved water quality and fire protection

Secondary Project Reason:

Assumptions:

New 8" Waterline

Pavement Replacement

O	Pavement Overlay	\$	-
R	Roadway Reconstruction	\$	78,231.26
W	Waterline Improvements	\$	85,463.82
S	Sanitary Sewer Improvements	\$	-
D	Storm Drainage Improvements	\$	-
P	Sidewalk Improvements	\$	-
	Combined Total	\$	163,695.08

[illegible]



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Railroad Avenue**

Cost Reference Date: 5/1/2017

**New Waterline, South of Lincoln Place to Central Street**

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	1,220	lf	\$ 3.35	\$ 4,087.00
2) Excavation of Pavement 4" to 6" Thick	542	sy	\$ 10.19	\$ 5,522.98
3) Wet Tap (4x4)	1	each	\$ 4,280.35	\$ 4,280.35
4) 8" Ductile Iron Pipe, CI 52	450	lf	\$ 96.53	\$ 43,438.50
5) 8" Tee	1	each	\$ 2,190.08	\$ 2,190.08
6) 8" Gate Valve with Valve Box	2	each	\$ 2,447.87	\$ 4,895.74
7) Reducer (8x4)	2	each	\$ 824.97	\$ 1,649.94
8) 4" Mechanical Bend	3	each	\$ 627.91	\$ 1,883.73
9) Plant Mixed Gravel - 24"	365	each	\$ 35.39	\$ 12,917.35
10) New Bituminous Concrete Pavement - 4" Thick Over Trench	542	sy	\$ 65.02	\$ 35,240.84
11) Traffic Control - Type II	15	day	\$ 690.51	\$ 10,357.65
12) Dust Control - Type II	1	ls	\$ 3,452.57	\$ 3,452.57
13) Mobilization	---	---	5%	\$ 6,495.84
Contingency	---	---	20%	\$ 27,282.51

Subtotal	\$	163,695.08
Design Engineering Services	\$	16,369.51
Bidding and Construction Services	\$	16,369.51
Grand Total	\$	196,434.10

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**River Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Section A, New Curb and Sidewalk, Park Street to Stanton Drive**

Original Capital Plan Date: 9/29/2005

Primary Project Reason:

Install new curb and sidewalk.

Secondary Project Reason:

Install new drainage for new curbed road.

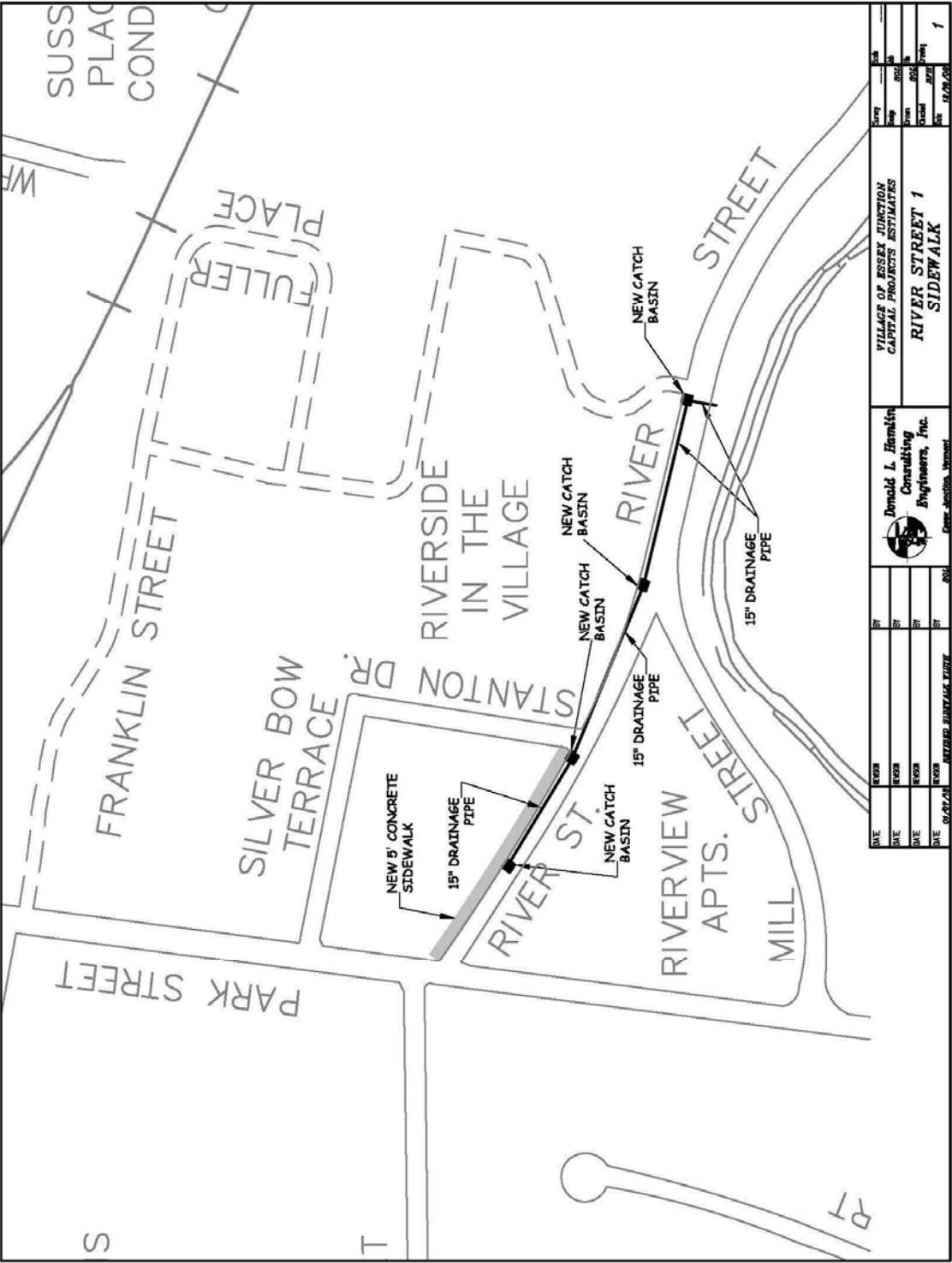
Assumptions:

New sidewalk is 5' wide

A portion of each residential driveway will be rebuilt to match new roadway.

O	Pavement Overlay		
R	Roadway Reconstruction	\$	31,393.67
W	Waterline Improvements		
S	Sanitary Sewer Improvements		
D	Storm Drainage Improvements	\$	29,212.60
P	Sidewalk Improvements	\$	104,535.22
	Combined Total	\$	165,141.48

Village of Essex Junction  
 Capital Projects  
 Construction Cost Estimate



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**River Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Section A, New Curb and Sidewalk, Park Street to Stanton Drive**

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 3" Thick or Less	450	lf	\$ 2.30	\$ 1,035.00
2) Excavation of Pavement to 3" Thick	50	sy	\$ 6.21	\$ 310.50
3) Mirafi 500X Geotextile Fabric	228	sy	\$ 1.67	\$ 380.76
4) New Cement Concrete Curb	450	lf	\$ 28.20	\$ 12,690.00
5) New Cement Concrete Sidewalk - 4" Thick	230	sy	\$ 67.90	\$ 15,617.00
6) New Cement Concrete Sidewalk - 6" Thick	23	sy	\$ 92.95	\$ 2,137.85
7) New Bituminous Concrete Pavement - 3" Thick Over Trench	50	sy	\$ 55.47	\$ 2,773.50
8) New Bituminous Concrete Driveway and Apron	45	sy	\$ 48.34	\$ 2,175.30
9) Supply and Spread Topsoil	20	cy	\$ 39.89	\$ 797.80
10) Seed, Fertilize, Lime and Matting	137	sy	\$ 2.88	\$ 394.56
11) Catch Basin - 4' Dia., To 8' Deep	1	each	\$ 4,223.58	\$ 4,223.58
12) 15" HDPE Drainage Pipe - To 8' Deep	215	lf	\$ 58.51	\$ 12,579.65
13) New Gas Lamp Style Light (Base, Pole and Fixture)	7	each	\$ 6,762.44	\$ 47,337.08
14) New Wired Conduit for Lighting	450	lf	\$ 19.85	\$ 8,932.50
15) Lighting Pedestal Meter Socket/Load Center (Includes Timer)	1	each	\$ 8,631.43	\$ 8,631.43
16) Traffic Control - Type II	15	day	\$ 690.51	\$ 10,357.65
17) Dust Control- Type II	1	ls	\$ 690.51	\$ 690.51
18) Mobilization	---	---	5%	\$ 6,553.23
Contingency	---	---	20%	\$ 27,523.58

Subtotal \$ 165,141.48

Design Engineering Services \$ 16,514.15

Bidding and Construction Services \$ 16,514.15

Grand Total \$ 198,169.78

\* If Section A constructed without Section B

The drainage elements of Section B must also be constructed, increasing the cost by: \$ 60,658.49

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**River Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Section B, New Curb and Sidewalk, Stanton Drive to Riverside in the Village**

Original Capital Plan Date: 9/29/2005

Primary Project Reason:

Install new curb and sidewalk.

Secondary Project Reason:

Install new drainage for new curbed road.

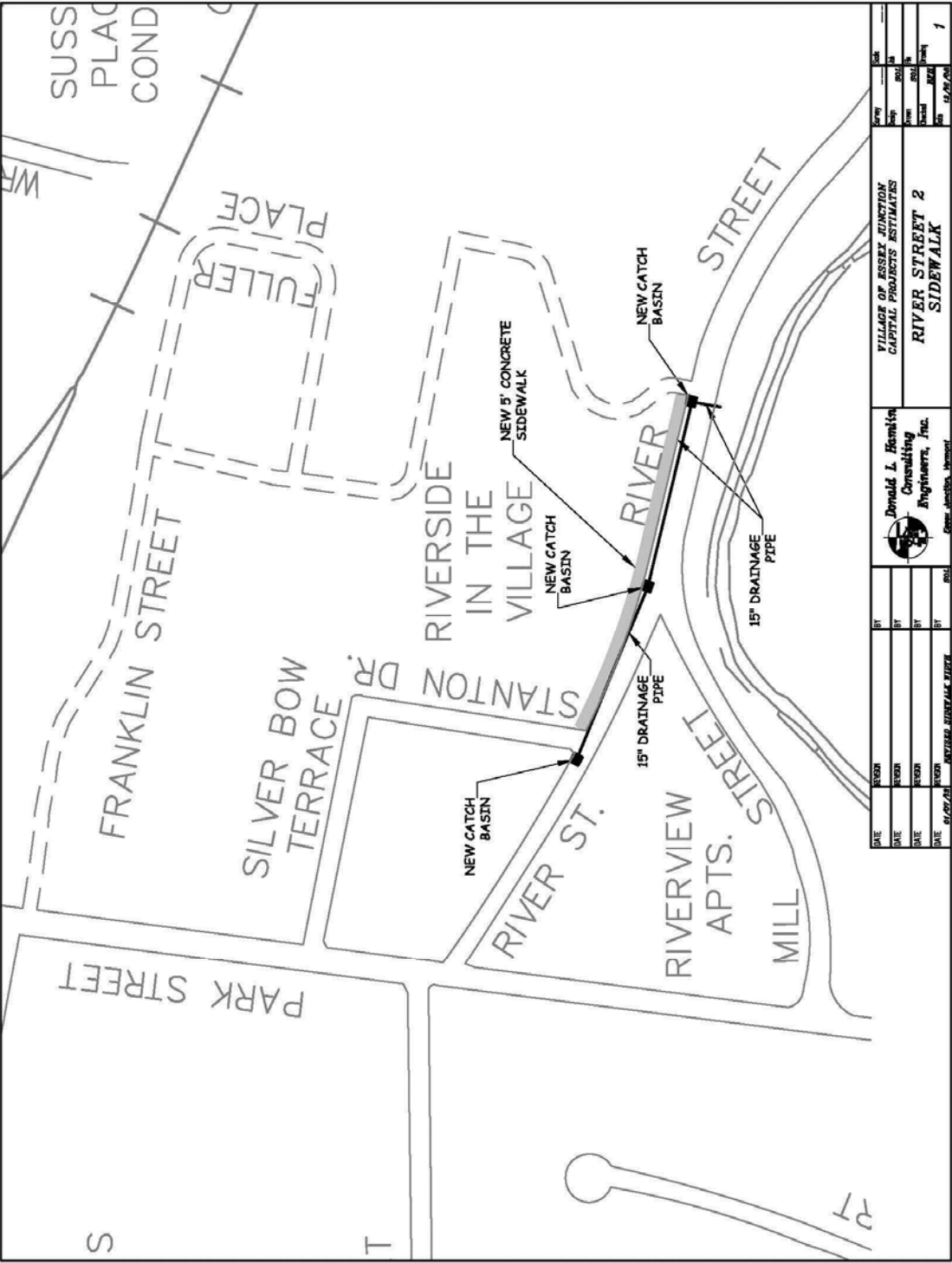
Assumptions:

New sidewalk is 5' wide

A portion of each residential driveway will be rebuilt to match new roadway.

O	Pavement Overlay		
R	Roadway Reconstruction	\$	42,458.28
W	Waterline Improvements		
S	Sanitary Sewer Improvements		
D	Storm Drainage Improvements	\$	158,706.86
P	Sidewalk Improvements	\$	38,701.31
	Combined Total	\$	239,866.45

Village of Essex Junction  
 Capital Projects  
 Construction Cost Estimate



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**River Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Section B, New Curb and Sidewalk, Stanton Drive to Riverside in the Village**

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 3" Thick or Less	650	lf	\$ 2.30	\$ 1,495.00
2) Excavation of Pavement to 3" Thick	100	sy	\$ 6.21	\$ 621.00
3) Mirafi 500X Geotextile Fabric	334	sy	\$ 1.67	\$ 557.78
4) New Cement Concrete Curb	600	lf	\$ 28.20	\$ 16,920.00
5) New Cement Concrete Sidewalk - 4" Thick	340	sy	\$ 67.90	\$ 23,086.00
6) Plant Mixed Gravel	40	cy	\$ 35.39	\$ 1,415.60
7) New Bituminous Concrete Pavement - 3" Thick Over Trench	100	sy	\$ 55.47	\$ 5,547.00
8) Supply and Spread Topsoil	25	cy	\$ 39.89	\$ 997.25
9) Seed, Fertilize, Lime and Matting	200	sy	\$ 2.88	\$ 576.00
10) Catch Basin - 4' Dia., To 8' Deep	3	each	\$ 4,223.58	\$ 12,670.74
11) 15" HDPE Drainage Pipe - To 8' Deep	665	lf	\$ 58.51	\$ 38,909.15
12) New Gas Lamp Style Light (Base, Pole and Fixture)	9	each	\$ 6,762.44	\$ 60,861.96
13) New Wired Conduit for Lighting	650	lf	\$ 19.85	\$ 12,902.50
14) Traffic Control - Type II	15	day	\$ 690.51	\$ 10,357.65
15) Dust Control - Type II	1	ls	\$ 3,452.57	\$ 3,452.57
16) Mobilization	---	---	5%	\$ 9,518.51
Contingency	---	---	20%	\$ 39,977.74

Subtotal	\$	239,866.45
Design Engineering Services	\$	23,986.65
Bidding and Construction Services	\$	23,986.65
Grand Total	\$	287,839.74

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Rosewood Lane**

**Sidewalk Replacement, Mansfield to Briar, north side**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

Original Capital Plan Date: 9/28/2001

Primary Project Reason:

Install new sidewalk along the south side of the road.

Secondary Project Reason:

Assumptions:

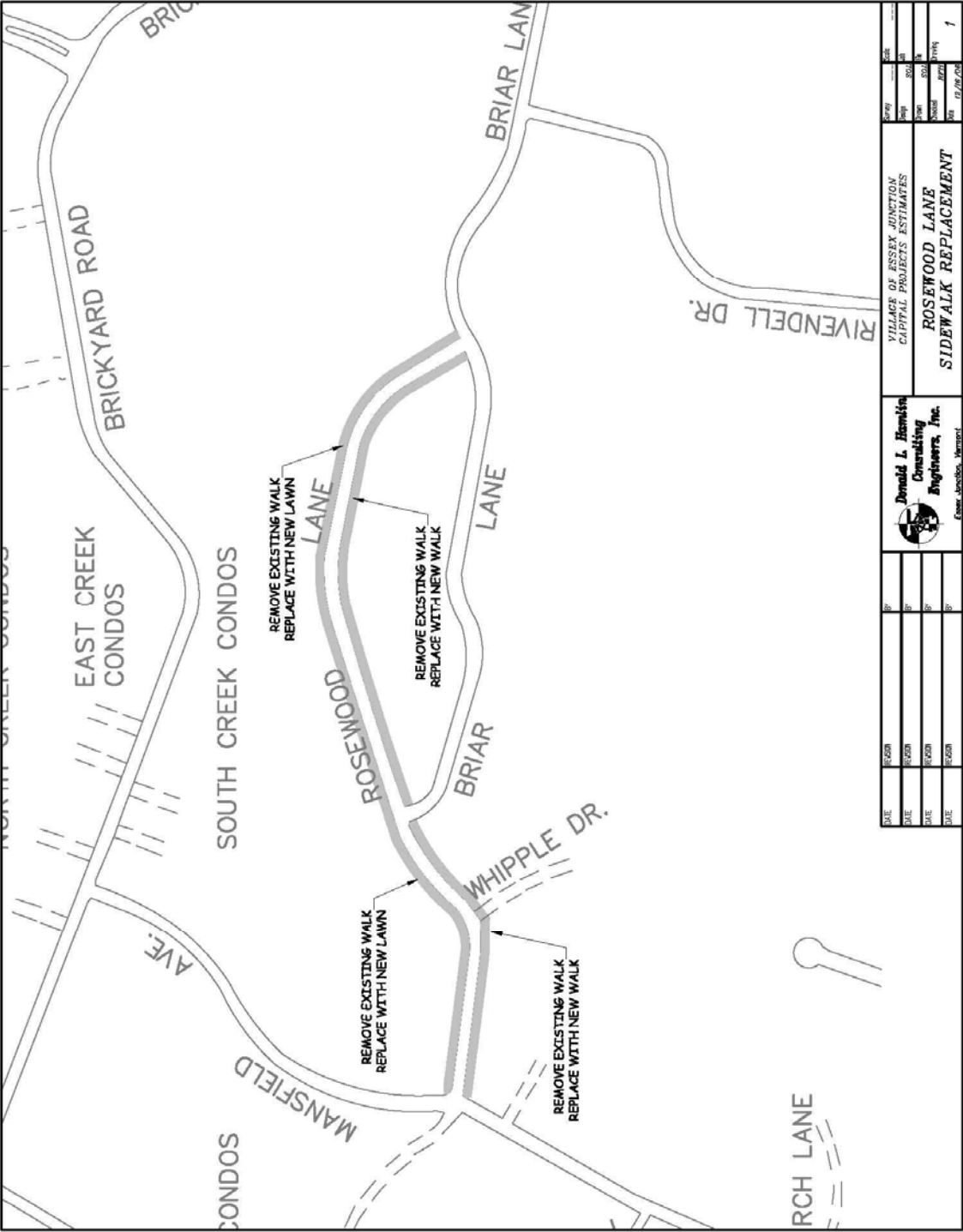
Existing walk on the north side to be removed and replaced with lawn.

A portion of each residential driveway will be rebuilt to match new roadway.

O	Pavement Overlay	\$	-
R	Roadway Reconstruction	\$	-
W	Waterline Improvements	\$	-
S	Sanitary Sewer Improvements	\$	-
D	Storm Drainage Improvements	\$	-
P	Sidewalk Improvements	\$	207,045.51
Combined Total		\$	207,045.51



Village of Essex Junction  
 Capital Projects  
 Construction Cost Estimate



DATE	REASON	BY	DATE	REASON	BY	DATE	REASON	BY	DATE	REASON	BY
DATE	REASON	BY	DATE	REASON	BY	DATE	REASON	BY	DATE	REASON	BY
DATE	REASON	BY	DATE	REASON	BY	DATE	REASON	BY	DATE	REASON	BY
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Donald L. Hamlin  
Consulting  
Engineers, Inc.

VILLAGE OF ESSEX JUNCTION  
CAPITAL PROJECTS  
ESTIMATES

ROSEWOOD LANE  
SIDEWALK REPLACEMENT

DATE: 12/08/2018  
BY: [Signature]

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Rosewood Lane**

**Sidewalk Replacement, Mansfield to Briar, north side**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 3" Thick or Less	700	lf	\$ 2.30	\$ 1,610.00
2) Excavation of Pavement to 3" Thick	675	sy	\$ 6.21	\$ 4,191.75
3) Remove Existing Sidewalk	1,605	sy	\$ 13.23	\$ 21,234.15
4) New Cement Concrete Sidewalk - 4" Thick	790	sy	\$ 67.90	\$ 53,641.00
5) New Cement Concrete Sidewalk - 6" Thick	175	sy	\$ 92.95	\$ 16,266.25
6) Mirafi 500X Geotextile Fabric	1,175	sy	\$ 1.67	\$ 1,962.25
7) Reconstruct Driveway Aprons	845	sy	\$ 48.34	\$ 40,847.30
8) Supply and Spread Topsoil	200	cy	\$ 39.89	\$ 7,978.00
9) Seed, Fertilize, Lime and Matting	1,565	sy	\$ 2.88	\$ 4,507.20
10) Traffic Control - Type I	25	day	\$ 460.34	\$ 11,508.50
11) Dust Control - Type I	1	ls	\$ 575.43	\$ 575.43
12) Mobilization	---	---	5%	\$ 8,216.09
Contingency	---	---	20%	\$ 34,507.58

Subtotal	\$	207,045.51
Design Engineering Services	\$	20,704.55
Bidding and Construction Services	\$	20,704.55
Grand Total	\$	248,454.61

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**South Street**

**Waterline Replacement, Park Street to Doon Way**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

Original Capital Plan Date: 6/21/2001

Primary Project Reason:

Replace old and undersized waterline

Secondary Project Reason:

Replace sidewalk

Assumptions:

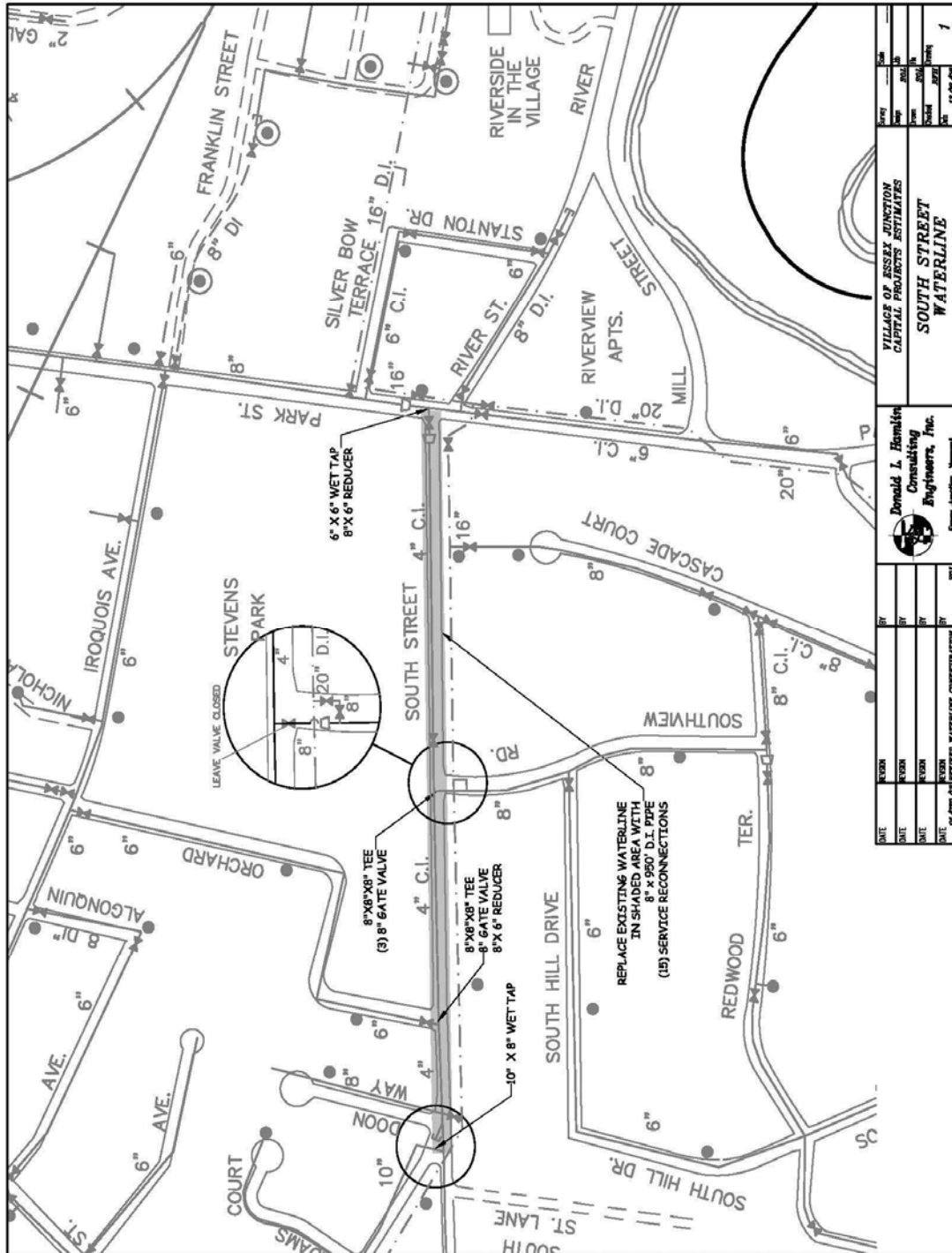
A portion of each residential driveway will be rebuilt to match new roadway.

8" D.I. Waterline to be installed

Existing waterline to remain in use until new waterline is operational.

O	Pavement Overlay	\$	-
R	Roadway Reconstruction	\$	131,530.30
W	Waterline Improvements	\$	462,969.34
S	Sanitary Sewer Improvements	\$	-
D	Storm Drainage Improvements	\$	-
P	Sidewalk Improvements	\$	155,634.93
	Combined Total	\$	750,134.56

# Village of Essex Junction Capital Projects Construction Cost Estimate



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**South Street**

Cost Reference Date: 5/1/2017

**Waterline Replacement, Park Street to Doon Way**

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	1,700	lf	\$ 3.35	\$ 5,695.00
2) Excavation of Pavement 4" to 6" Thick	750	sy	\$ 10.19	\$ 7,642.50
3) Remove Existing Concrete Sidewalk	950	sy	\$ 13.23	\$ 12,568.50
4) Remove and Reset Existing Granite Curb	600	lf	\$ 19.45	\$ 11,670.00
5) Wet Tap (6x6)	1	each	\$ 4,771.79	\$ 4,771.79
6) 8" Ductile Iron Pipe, CI 52	1,900	lf	\$ 96.53	\$ 183,407.00
7) 6" Ductile Iron Pipe, CI 52	20	lf	\$ 71.35	\$ 1,427.00
8) 8" Gate Valve with Valve Box	4	each	\$ 2,447.87	\$ 9,791.48
9) Wet Tap (10x8)	1	each	\$ 8,239.29	\$ 8,239.29
10) 8" Tee	2	each	\$ 2,190.08	\$ 4,380.16
11) Reducer (8x6)	1	each	\$ 1,685.00	\$ 824.97
12) 8" Mechanical Bend	12	each	\$ 1,150.86	\$ 13,810.32
13) 3/4" Copper Waterline	680	lf	\$ 44.41	\$ 30,198.80
14) 3/4" Corporation Stop	34	each	\$ 636.42	\$ 21,638.28
15) 3/4" Curb Stop	34	each	\$ 287.14	\$ 9,762.76
16) Cap and Abandon Existing 4" Waterline	3	each	\$ 3,826.89	\$ 11,480.67
17) Plant Mixed Gravel - 24"	500	cy	\$ 35.39	\$ 17,695.00
18) New Bituminous Concrete Pavement - 4" Thick Over Trench	750	sy	\$ 65.02	\$ 48,765.00
19) New Cement Concrete Sidewalk - 4" Thick	900	sy	\$ 67.90	\$ 61,110.00
20) New Cement Concrete Sidewalk - 6" Thick	170	sy	\$ 92.95	\$ 15,801.50
21) Hold Existing Utility Pole	16	each	\$ 949.46	\$ 15,191.36
22) Supply and Spread Topsoil	250	cy	\$ 39.89	\$ 9,972.50
23) Seed, Fertilize, Lime and Matting	3,000	sy	\$ 2.88	\$ 8,640.00
24) 24" Wide Stop Bar - Painted	48	lf	\$ 7.80	\$ 374.40
25) 12" Wide Crosswalk Bar - Painted	144	lf	\$ 7.48	\$ 1,077.12
26) Traffic Control - Type III	80	day	\$ 920.69	\$ 73,655.20
27) Dust Control - Type III	1	ls	\$ 5,754.29	\$ 5,754.29

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**South Street**

Cost Reference Date: 5/1/2017

**Waterline Replacement, Park Street to Doon Way**

Estimate Preparation Date: 5/1/2017

ITEM		QUANTITY	UNIT	PRICE	TOTAL
28)	Mobilization	---	---	5%	\$ 29,767.24
	Contingency	---	---	20%	\$ 125,022.43

Subtotal \$ 750,134.56

Design Engineering Services \$ 67,512.11

Bidding and Construction Services \$ 75,013.46

Grand Total \$ 892,660.13

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**West Street**

**Waterline Replacement, South Summit to Hayden Drive**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

Original Capital Plan Date: 9/29/2005

Primary Project Reason:

Replace old and undersized waterline

Secondary Project Reason:

Assumptions:

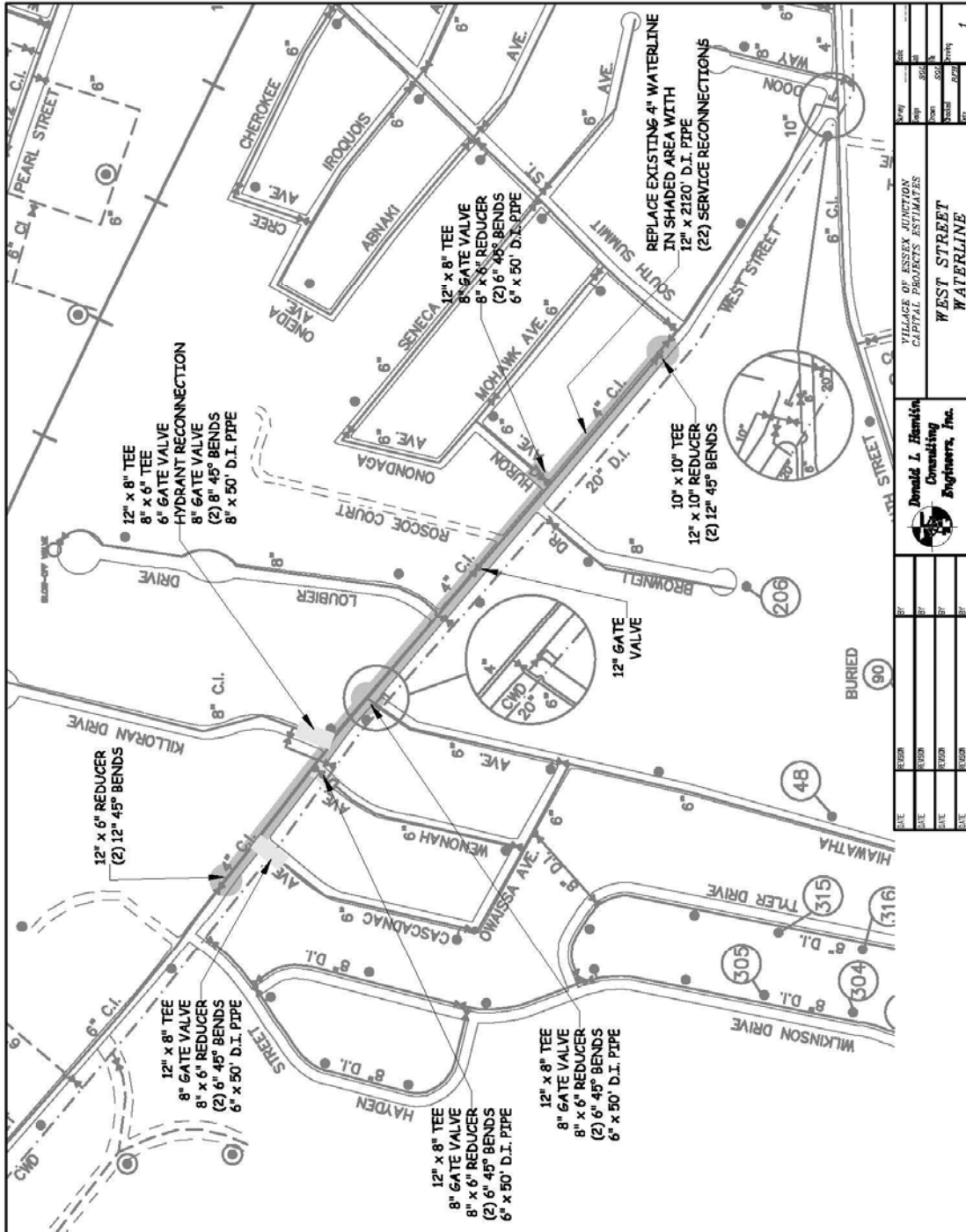
Pavement repair over waterline trench

New 12' D.I. pipe to be installed

Existing waterline to remain in use until new waterline is operational.

O	Pavement Overlay	\$	-
R	Roadway Reconstruction	\$	334,810.14
W	Waterline Improvements	\$	503,787.20
S	Sanitary Sewer Improvements	\$	-
D	Storm Drainage Improvements	\$	-
P	Sidewalk Improvements	\$	-
	Combined Total	\$	838,597.35

# Village of Essex Junction Capital Projects Construction Cost Estimate





**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**West Street**

Cost Reference Date: 5/1/2017

**Waterline Replacement, South Summit to Hayden Drive**

Estimate Preparation Date: 5/1/2017

1)	Saw Cut Existing Pavement 4" Thick	5,200	lf	\$ 3.35	\$ 17,420.00
2)	Excavation of Pavement 4" to 6" Thick	2,302	sy	\$ 10.19	\$ 23,457.38
3)	12" Ductile Iron Pipe, CI 52	2,120	lf	\$ 108.04	\$ 229,044.80
4)	8" Ductile Iron Pipe, CI 52	50	lf	\$ 96.53	\$ 4,826.50
5)	6" Ductile Iron Pipe, CI 52	200	lf	\$ 81.72	\$ 16,344.00
6)	12" Mechanical Bend	4	each	\$ 2,014.00	\$ 8,056.00
7)	8" Mechanical Bend	2	each	\$ 1,150.86	\$ 2,301.72
8)	6" Mechanical Bend	8	each	\$ 799.85	\$ 6,398.80
9)	Reducer (12x10)	1	each	\$ 2,638.78	\$ 2,638.78
10)	Reducer (12x6)	1	each	\$ 1,907.55	\$ 1,907.55
11)	Reducer (8x6)	4	each	\$ 824.97	\$ 3,299.88
12)	12" Gate Valve with Valve Box	1	each	\$ 4,252.42	\$ 4,252.42
13)	8" Gate Valve with Valve Box	5	each	\$ 2,447.87	\$ 12,239.35
14)	6" Gate Valve with Valve Box	1	each	\$ 1,990.98	\$ 1,990.98
15)	Tee (12x8)	5	each	\$ 3,702.31	\$ 18,511.55
16)	Tee (10x10)	1	each	\$ 3,702.31	\$ 3,702.31
17)	Tee (8x6)	1	each	\$ 2,190.08	\$ 2,190.08
18)	New Hydrant Assembly (Tee, Valve, Hydrant, Glands and 6' Pipe)	1	each	\$ 6,439.05	\$ 6,439.05
19)	3/4" Copper Waterline	550	lf	\$ 44.41	\$ 24,425.50
20)	3/4" Corporation Stop	22	each	\$ 636.42	\$ 14,001.24
21)	3/4" Curb Stop	22	each	\$ 287.14	\$ 6,317.08
22)	24" Plant Mixed Gravel	1,535	cy	\$ 35.39	\$ 54,323.65
23)	New Bituminous Concrete Pavement - 4" Thick Over Trench	2,302	sy	\$ 65.02	\$ 149,676.04
24)	Traffic Control - Type III	50	day	\$ 920.69	\$ 46,034.50
25)	Dust Control - Type III	1	ls	\$ 5,754.29	\$ 5,754.29
26)	Mobilization	---	---	5%	\$ 33,277.67
	Contingency	---	---	20%	\$ 139,766.22

Subtotal \$ 838,597.35  
Design Engineering Services \$ 75,473.76  
Bidding and Construction Services \$ 83,859.73  
Grand Total \$ 997,930.84

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Main Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**New Drainage, Curb & Sidewalk-Pleasant Street to Bridge, Elevate Educational Drive Intersection**

Original Capital Plan Date: 11/24/2003

Primary Project Reason:

Install New 5' wide sidewalk

Enclose storm drainage

Secondary Project Reason:

Elevate Educational Drive Intersection

Assumptions:

5' Wide sidewalk.

One way traffic maintained

A portion of each residential driveway will be rebuilt to match new roadway.

Existing utility poles to be relocated by others.

O	Pavement Overlay	\$	56,798.07
R	Roadway Reconstruction	\$	231,976.76
W	Waterline Improvements		
S	Sanitary Sewer Improvements	\$	7,771.07
D	Storm Drainage Improvements	\$	84,828.47
P	Sidewalk Improvements	\$	105,798.44
	Combined Total	\$	487,172.81

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**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Main Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**New Drainage, Curb & Sidewalk - Pleasant Street to Bridge, Elevate Educational Drive Intersection**

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	120	lf	\$ 3.35	\$ 402.00
2) Remove Existing Curb	1,225	lf	\$ 5.58	\$ 6,835.50
3) Excavation of Pavement 4" to 6" Thick	2,900	sy	\$ 10.19	\$ 29,551.00
4) Remove Existing Concrete Sidewalk	480	sy	\$ 13.23	\$ 6,350.40
5) Remove Existing Structure - To 8' Deep	4	each	\$ 724.27	\$ 2,897.08
6) Remove Existing Pipe - To 8' Deep	175	lf	\$ 16.22	\$ 2,838.50
7) Silt Fence	250	lf	\$ 3.05	\$ 762.50
8) Remove Existing Manhole Frame and Cover, Replace with New	5	each	\$ 1,101.95	\$ 5,509.75
9) Test Excavation	5	each	\$ 556.37	\$ 2,781.85
10) Catch Basin - 4' Dia., To 8' Deep	4	each	\$ 4,223.58	\$ 16,894.32
11) 18" HDPE Drainage Pipe - To 8' Deep	450	lf	\$ 68.05	\$ 30,622.50
12) Type I Rip Rap for Outfall Pads	10	cy	\$ 109.33	\$ 1,093.30
13) New Cement Concrete Curb	1,300	lf	\$ 28.20	\$ 36,660.00
14) New Cement Concrete Sidewalk - 4" Thick	525	sy	\$ 67.90	\$ 35,647.50
15) New Cement Concrete Sidewalk - 6" Thick	100	sy	\$ 92.95	\$ 9,295.00
16) New Bituminous Concrete Pavement - 3", Type II	2,900	sy	\$ 20.16	\$ 58,464.00
17) New Bituminous Concrete Pavement - 1-1/4", Type III	2,900	sy	\$ 9.49	\$ 27,521.00
18) New Bituminous Concrete Driveway and Apron	275	sy	\$ 48.34	\$ 13,293.50
19) New Gravel Driveway	225	sy	\$ 35.88	\$ 8,073.00
20) 4" White Line - Painted	1,500	lf	\$ 1.07	\$ 1,605.00
21) 4" Yellow Line - Painted	1,200	lf	\$ 1.07	\$ 1,284.00
22) 24" Wide Stop Bar - Painted	50	lf	\$ 7.80	\$ 390.00
23) 12" Wide Crosswalk Bar - Painted	480	lf	\$ 7.48	\$ 3,590.40
24) Symbol or Letter - Painted	30	each	\$ 127.75	\$ 3,832.50
25) Supply and Spread Topsoil	300	cy	\$ 39.89	\$ 11,967.00
26) Seed, Fertilize, Lime and Matting	2,600	sy	\$ 2.88	\$ 7,488.00
27) Traffic Control - Type IV	40	day	\$ 1,381.03	\$ 55,241.20

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Main Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**New Drainage, Curb & Sidewalk - Pleasant Street to Bridge, Elevate Educational Drive Intersection**

ITEM		QUANTITY	UNIT	UNIT PRICE	TOTAL
28)	Dust Control - Type III	1	ls	\$ 5,754.29	\$ 5,754.29
29)	Mobilization	---	---	5%	\$ 19,332.25
	Contingency	---	---	20%	\$ 81,195.47

Subtotal \$ 487,172.81

Design Engineering Services \$ 48,717.28

Bidding and Construction Services \$ 48,717.28

Grand Total \$ 584,607.38

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Main Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**New Bridge at Indian Brook, Enclose Drainage, New Curb & Sidewalk, Bridge to Crestview Road**

Original Capital Plan Date: 11/24/2003

Primary Project Reason:

- Install New 5' wide sidewalk
- Enclose storm drainage
- Slip Lane onto Educational Drive

Secondary Project Reason:

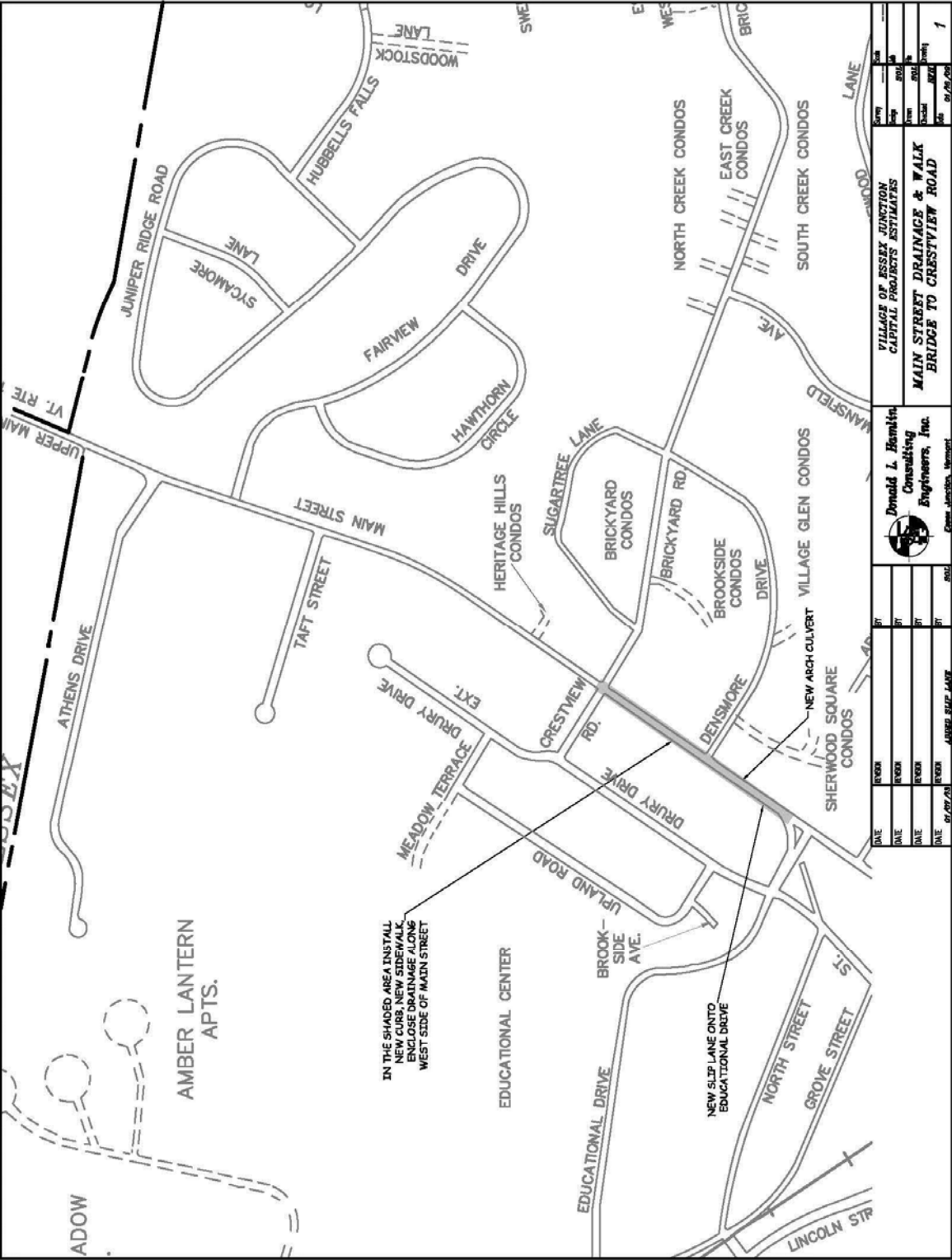
- Replace old Bridge

Assumptions:

- 5' Wide sidewalk.
- New bridge is an arch culvert
- Two way traffic maintained
- A portion of each residential driveway will be rebuilt to match new roadway.
- Existing utility poles to be relocated by others.

O	Pavement Overlay	\$	158,051.54
R	Roadway Reconstruction	\$	522,746.15
W	Waterline Improvements		
S	Sanitary Sewer Improvements	\$	5,676.76
D	Storm Drainage Improvements	\$	147,770.68
P	Sidewalk Improvements	\$	106,381.09
	Combined Total	\$	940,626.23

# Village of Essex Junction Capital Projects Construction Cost Estimate



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Main Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**New Bridge at Indian Brook, Enclose Drainage, New Curb & Sidewalk, Bridge to Crestview Road**

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	1,575	lf	\$ 3.35	\$ 5,276.25
2) Excavation of Pavement 4" to 6" Thick	375	sy	\$ 10.19	\$ 3,821.25
3) Remove Existing Structure - To 8' Deep	3	each	\$ 724.27	\$ 2,172.81
4) Remove Existing Pipe - To 8' Deep	260	lf	\$ 16.22	\$ 4,217.20
5) Silt Fence	300	lf	\$ 3.05	\$ 915.00
6) Remove Existing Manhole Frame and Cover, Replace with New	4	each	\$ 1,101.95	\$ 4,407.80
7) Remove and Reset Existing Catch Basin Frame and Grate	4	each	\$ 813.33	\$ 3,253.32
8) Test Excavation	10	each	\$ 556.37	\$ 5,563.70
9) Catch Basin - 4' Dia., To 8' Deep	5	each	\$ 4,223.58	\$ 21,117.90
10) 18" HDPE Drainage Pipe - To 8' Deep	825	lf	\$ 68.05	\$ 56,141.25
11) Type I Rip Rap for Outfall Pads	10	cy	\$ 109.33	\$ 1,093.30
12) Excavation for New Roadway Subbase	100	cy	\$ 21.00	\$ 2,100.00
13) Sand Borrow	250	cy	\$ 26.47	\$ 6,617.50
14) Dense Graded Crushed Stone	480	cy	\$ 35.96	\$ 17,260.80
15) Plant Mixed Gravel	1,150	cy	\$ 35.39	\$ 40,698.50
16) New Cement Concrete Curb	1,125	lf	\$ 28.20	\$ 31,725.00
17) New Cement Concrete Sidewalk - 4" Thick	555	sy	\$ 67.90	\$ 37,684.50
18) New Cement Concrete Sidewalk - 6" Thick	70	sy	\$ 92.95	\$ 6,506.50
19) New Bituminous Concrete Pavement - 3" Thick Over Trench	1,000	sy	\$ 55.47	\$ 55,470.00
20) New Bituminous Concrete Pavement - 1-1/4", Type III	4,850	sy	\$ 9.49	\$ 46,026.50
21) Cold Plane Pavement	4,000	sy	\$ 6.31	\$ 25,240.00
22) New Bituminous Concrete Driveway and Apron	200	sy	\$ 48.34	\$ 9,668.00
23) New Gravel Driveway	150	sy	\$ 35.88	\$ 5,382.00
24) 4" White Line - Painted	2,400	lf	\$ 1.07	\$ 2,568.00
25) 4" Yellow Line - Painted	4,950	lf	\$ 1.07	\$ 5,296.50
26) 24" Wide Stop Bar - Painted	300	lf	\$ 7.80	\$ 2,340.00
27) 12" Wide Crosswalk Bar - Painted	250	lf	\$ 7.48	\$ 1,870.00
28) Symbol or Letter - Painted	35	each	\$ 127.75	\$ 4,471.25



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Main Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**New Bridge at Indian Brook, Enclose Drainage, New Curb & Sidewalk, Bridge to Crestview Road**

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
29) Supply and Spread Topsoil	200	cy	\$ 39.89	\$ 7,978.00
30) Seed, Fertilize, Lime and Matting	1,750	sy	\$ 2.88	\$ 5,040.00
31) Temporary Bridge	1	ls	\$ 72,158.75	\$ 72,158.75
32) New Bridge (Arch Culvert) at Indian Brook	1	ls	\$ 108,238.13	\$ 108,238.13
33) Loop Detectors	1,440	lf	\$ 14.63	\$ 21,067.20
34) Traffic Control - Type IV	85	day	\$ 1,381.03	\$ 117,387.55
35) Dust Control - Type III	1	ls	\$ 5,754.29	\$ 5,754.29
36) Mobilization	---	---	5%	\$ 37,326.44
Contingency	---	---	20%	\$ 156,771.04

Subtotal	\$	940,626.23
Design Engineering Services	\$	84,656.36
Bidding and Construction Services	\$	94,062.62
Grand Total	\$	1,119,345.21

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Main Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Enclose Drainage, New Curb & Sidewalk, Crestview Road to Taft Street**

Original Capital Plan Date: 11/24/2003

Primary Project Reason:

Install New 5' wide sidewalk

Enclose storm drainage

Secondary Project Reason:

Assumptions:

5' Wide sidewalk.

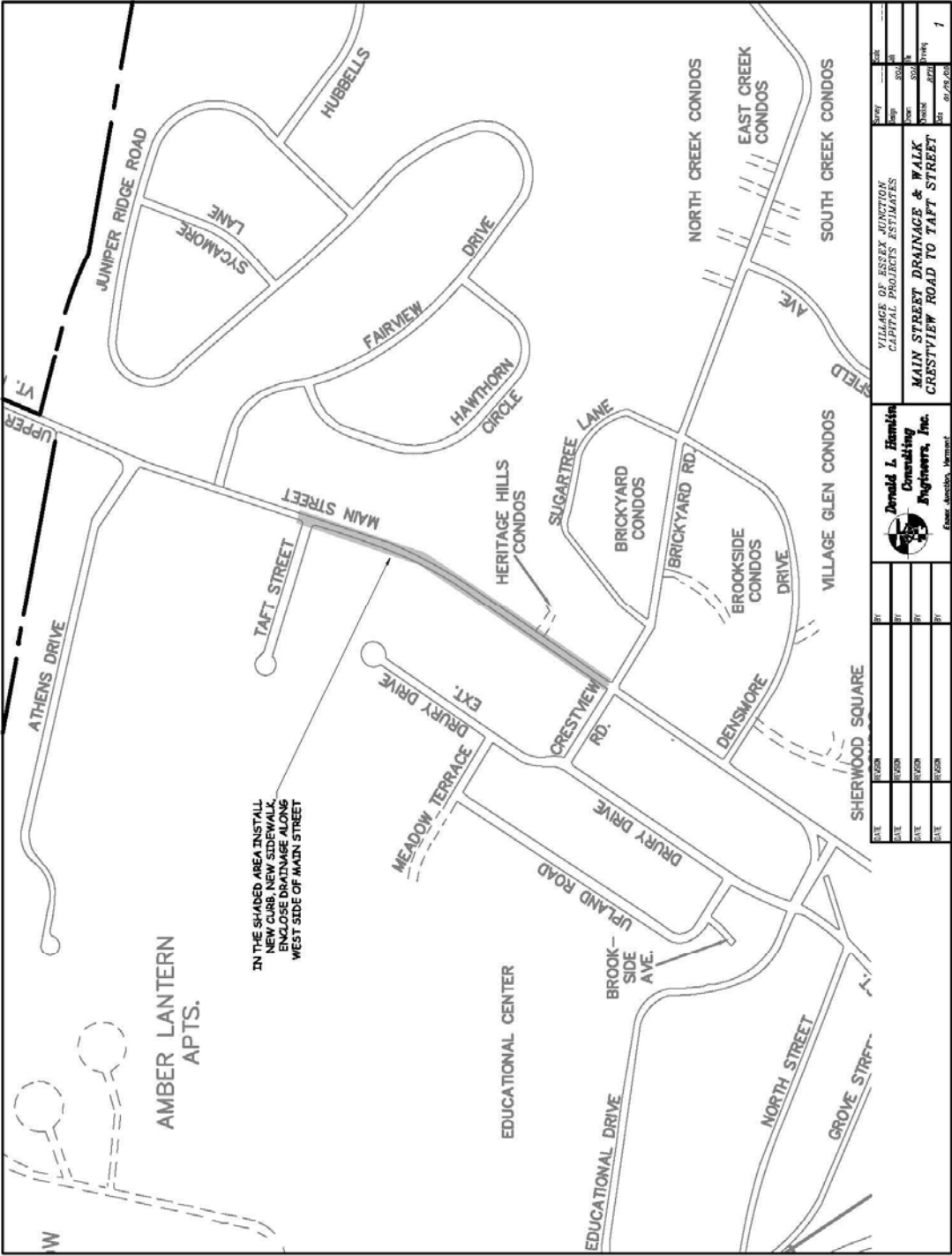
One way traffic maintained

A portion of each residential driveway will be rebuilt to match new roadway.

Existing utility poles to be relocated by others.

O	Pavement Overlay	\$	125,150.88
R	Roadway Reconstruction	\$	303,570.73
W	Waterline Improvements		
S	Sanitary Sewer Improvements	\$	7,691.90
D	Storm Drainage Improvements	\$	155,242.43
P	Sidewalk Improvements	\$	103,328.80
	Combined Total	\$	694,984.75

# Village of Essex Junction Capital Projects Construction Cost Estimate



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Main Street**

Cost Reference Date: 5/1/2017  
Estimate Preparation Date: 5/1/2017

**Enclose Drainage, New Curb & Sidewalk, Crestview Road to Taft Street**

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	1,550	lf	\$ 3.35	\$ 5,192.50
2) Excavation of Pavement 4" to 6" Thick	575	sy	\$ 10.19	\$ 5,859.25
3) Remove Existing Structure - To 8' Deep	1	each	\$ 724.27	\$ 724.27
4) Remove Existing Pipe - To 8' Deep	380	lf	\$ 16.22	\$ 6,163.60
5) Silt Fence	100	lf	\$ 3.05	\$ 305.00
6) Remove Existing Manhole Frame and Cover, Replace with New	5	each	\$ 1,101.95	\$ 5,509.75
7) Remove and Reset Existing Catch Basin Frame and Grate	2	each	\$ 813.33	\$ 1,626.66
8) Test Excavation	10	each	\$ 556.37	\$ 5,563.70
9) Catch Basin - 4' Dia., To 8' Deep	6	each	\$ 4,223.58	\$ 25,341.48
10) 18" HDPE Drainage Pipe - To 8' Deep	1,000	lf	\$ 68.05	\$ 68,050.00
11) Connect New Pipe to Existing Structure	2	each	\$ 918.80	\$ 1,837.60
12) Excavation for New Roadway Subbase	1,300	cy	\$ 21.00	\$ 27,300.00
13) Sand Borrow	360	cy	\$ 26.47	\$ 9,529.20
14) Dense Graded Crushed Stone	730	cy	\$ 35.96	\$ 26,250.80
15) Plant Mixed Gravel	210	cy	\$ 35.39	\$ 7,431.90
16) New Cement Concrete Curb	1,400	lf	\$ 28.20	\$ 39,480.00
17) New Cement Concrete Sidewalk - 4" Thick	660	sy	\$ 67.90	\$ 44,814.00
18) New Cement Concrete Sidewalk - 6" Thick	85	sy	\$ 92.95	\$ 7,900.75
19) New Bituminous Concrete Pavement - 3" Thick Over Trench	1,100	sy	\$ 55.47	\$ 61,017.00
20) New Bituminous Concrete Pavement - 1-1/4", Type III	5,400	sy	\$ 9.49	\$ 51,246.00
21) Cold Plane Pavement	4,300	sy	\$ 6.31	\$ 27,133.00
22) New Bituminous Concrete Driveway and Apron	400	sy	\$ 48.34	\$ 19,336.00
23) New Gravel Driveway	75	sy	\$ 35.88	\$ 2,691.00
24) 4" White Line - Painted	2,900	lf	\$ 1.07	\$ 3,103.00
25) 4" Yellow Line - Painted	3,200	lf	\$ 1.07	\$ 3,424.00
26) 24" Wide Stop Bar - Painted	24	lf	\$ 7.80	\$ 187.20
27) 12" Wide Crosswalk Bar - Painted	250	lf	\$ 7.48	\$ 1,870.00
28) Supply and Spread Topsoil	275	cy	\$ 39.89	\$ 10,969.75

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Main Street**

Cost Reference Date: 5/1/2017  
Estimate Preparation Date: 5/1/2017

**Enclose Drainage, New Curb & Sidewalk, Crestview Road to Taft Street**

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
29) Seed, Fertilize, Lime and Matting	2,400	sy	\$ 2.88	\$ 6,912.00
30) Traffic Control - Type IV	50	day	\$ 1,381.03	\$ 69,051.50
31) Dust Control - Type III	1	ls	\$ 5,754.29	\$ 5,754.29
32) Mobilization	---	---	5%	\$ 27,578.76
Contingency	---	---	20%	\$ 115,830.79

Subtotal \$ 694,984.75  
Design Engineering Services \$ 62,548.63  
Bidding and Construction Services \$ 69,498.48  
Grand Total \$ 827,031.85

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Main Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Enclose Drainage, New Curb & Sidewalk, Taft Street to Athens Drive**

Original Capital Plan Date: 2/24/2003

Primary Project Reason:

Install New 5' wide sidewalk

Enclose storm drainage

Secondary Project Reason:

Assumptions:

5' Wide sidewalk.

One way traffic maintained

A portion of each residential driveway will be rebuilt to match new roadway.

Existing utility poles to be relocated by others.

O	Pavement Overlay	\$	77,252.13
R	Roadway Reconstruction	\$	182,198.76
W	Waterline Improvements		
S	Sanitary Sewer Improvements	\$	1,568.33
D	Storm Drainage Improvements	\$	127,142.03
P	Sidewalk Improvements	\$	69,620.68
	Combined Total	\$	457,781.93

IN THE SHADED AREA INSTALL  
NEW CURB, NEW SIDEWALK,  
ENCLOSE DRAINAGE ALONG  
WEST SIDE OF MAIN STREET

AMBER LANTERN  
APTS.

EDUCATIONAL CENTER

EDUCATIONAL DRIVE

BROOK-  
SIDE  
AVE.

UPLAND ROAD

MEADOW TERRACE  
DRURY DRIVE  
EXT.

CRESTVIEW  
RD.

DRURY DRIVE

DENSMORE  
DRIVE

BROOKSIDE  
CONDOS

BRICKYARD  
CONDOS

SUGAR TREE LANE

HERITAGE HILLS  
CONDOS

HAWTHORN  
CIRCLE

FAIRVIEW  
DRIVE

HUBBELLS

SYCAMORE  
LANE

JUNIPER RIDGE ROAD

VT.  
UPPER

ATHENS DRIVE

TAFT STREET

MAIN STREET

NORTH CREEK CONDOS

EAST CREEK  
CONDOS

SOUTH CREEK CONDOS

VILLAGE GLEN CONDOS

SHERWOOD SQUARE

NORTH STREET

GROVE STREET

VILLAGE OF ESSEX JUNCTION  
CAPITAL PROJECTS ESTIMATES

MAIN STREET DRAINAGE & WALK  
TAFT STREET TO ATHENS DRIVE

Donald L. Hamlin  
Consulting  
Engineers, Inc.

DATE	BY	DATE	BY
11-20-08	DLH	11-20-08	DLH
11-20-08	DLH	11-20-08	DLH
11-20-08	DLH	11-20-08	DLH

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Main Street**

Cost Reference Date: 5/1/2017  
Estimate Preparation Date: 5/1/2017

**Enclose Drainage, New Curb & Sidewalk, Taft Street to Athens Drive**

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	850	lf	\$ 3.35	\$ 2,847.50
2) Excavation of Pavement 4" to 6" Thick	250	sy	\$ 10.19	\$ 2,547.50
3) Remove Existing Structure - To 8' Deep	3	each	\$ 724.27	\$ 2,172.81
4) Remove Existing Pipe - To 8' Deep	125	lf	\$ 16.22	\$ 2,027.50
5) Silt Fence	600	lf	\$ 3.05	\$ 1,830.00
6) Remove Existing Manhole Frame and Cover, Replace with New	1	each	\$ 1,101.95	\$ 1,101.95
7) Remove and Reset Existing Catch Basin Frame and Grate	2	each	\$ 813.33	\$ 1,626.66
8) Test Excavation	5	each	\$ 556.37	\$ 2,781.85
9) Catch Basin - 4' Dia., To 8' Deep	6	each	\$ 4,223.58	\$ 25,341.48
10) 18" HDPE Drainage Pipe - To 8' Deep	650	lf	\$ 68.05	\$ 44,232.50
11) Type I Rip Rap for Outfall Pads	30	cy	\$ 109.33	\$ 3,279.90
12) Connect Existing Pipe to New Structure	3	each	\$ 918.80	\$ 2,756.40
13) Excavation for New Roadway Subbase	550	cy	\$ 21.00	\$ 11,550.00
14) Earth Borrow	1,850	cy	\$ 16.00	\$ 29,600.00
15) Sand Borrow	160	cy	\$ 26.47	\$ 4,235.20
16) Dense Graded Crushed Stone	310	cy	\$ 35.96	\$ 11,147.60
17) Plant Mixed Gravel	80	cy	\$ 35.39	\$ 2,831.20
18) New Cement Concrete Curb	700	lf	\$ 28.20	\$ 19,740.00
19) New Cement Concrete Sidewalk - 4" Thick	375	sy	\$ 67.90	\$ 25,462.50
20) New Cement Concrete Sidewalk - 6" Thick	10	sy	\$ 92.95	\$ 929.50
21) New Bituminous Concrete Pavement - 3" Thick Over Trench	550	sy	\$ 55.47	\$ 30,508.50
22) New Bituminous Concrete Pavement - 1-1/4", Type III	2,750	sy	\$ 9.49	\$ 26,097.50
23) Cold Plane Pavement	2,750	sy	\$ 6.31	\$ 17,352.50
24) New Bituminous Concrete Driveway and Apron	50	sy	\$ 48.34	\$ 2,417.00
25) 4" White Line - Painted	1,550	lf	\$ 1.07	\$ 1,658.50
26) 4" Yellow Line - Painted	2,500	lf	\$ 1.07	\$ 2,675.00
27) 24" Wide Stop Bar - Painted	24	lf	\$ 7.80	\$ 187.20
28) 12" Wide Crosswalk Bar - Painted	250	lf	\$ 7.48	\$ 1,870.00



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Main Street**

Cost Reference Date: 5/1/2017  
Estimate Preparation Date: 5/1/2017

**Enclose Drainage, New Curb & Sidewalk, Taft Street to Athens Drive**

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
29) Symbol or Letter - Painted	15	each	\$ 127.75	\$ 1,916.25
30) Supply and Spread Topsoil	300	cy	\$ 39.89	\$ 11,967.00
31) Seed, Fertilize, Lime and Matting	2,650	sy	\$ 2.88	\$ 7,632.00
32) Traffic Control - Type IV	40	day	\$ 1,381.03	\$ 55,241.20
33) Dust Control - Type III	1	ls	\$ 5,754.29	\$ 5,754.29
34) Mobilization	---	---	5%	\$ 18,165.95
Contingency	---	---	20%	\$ 76,296.99

Subtotal \$ 457,781.93  
Design Engineering Services \$ 45,778.19  
Bidding and Construction Services \$ 45,778.19  
Grand Total \$ 549,338.31

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Pearl Street**

Cost Reference Date: 5/1/2017  
Estimate Preparation Date: 5/1/2017

**Sidewalk and Lighting Improvements from Willeys Court to West Street Extension**

Original Capital Plan Date: 2/3/2009

Primary Project Reason:

Improve Streetscape along Pearl Street

Secondary Project Reason:

Assumptions:

New sidewalk will be 5' wide.

5' wide green belt.

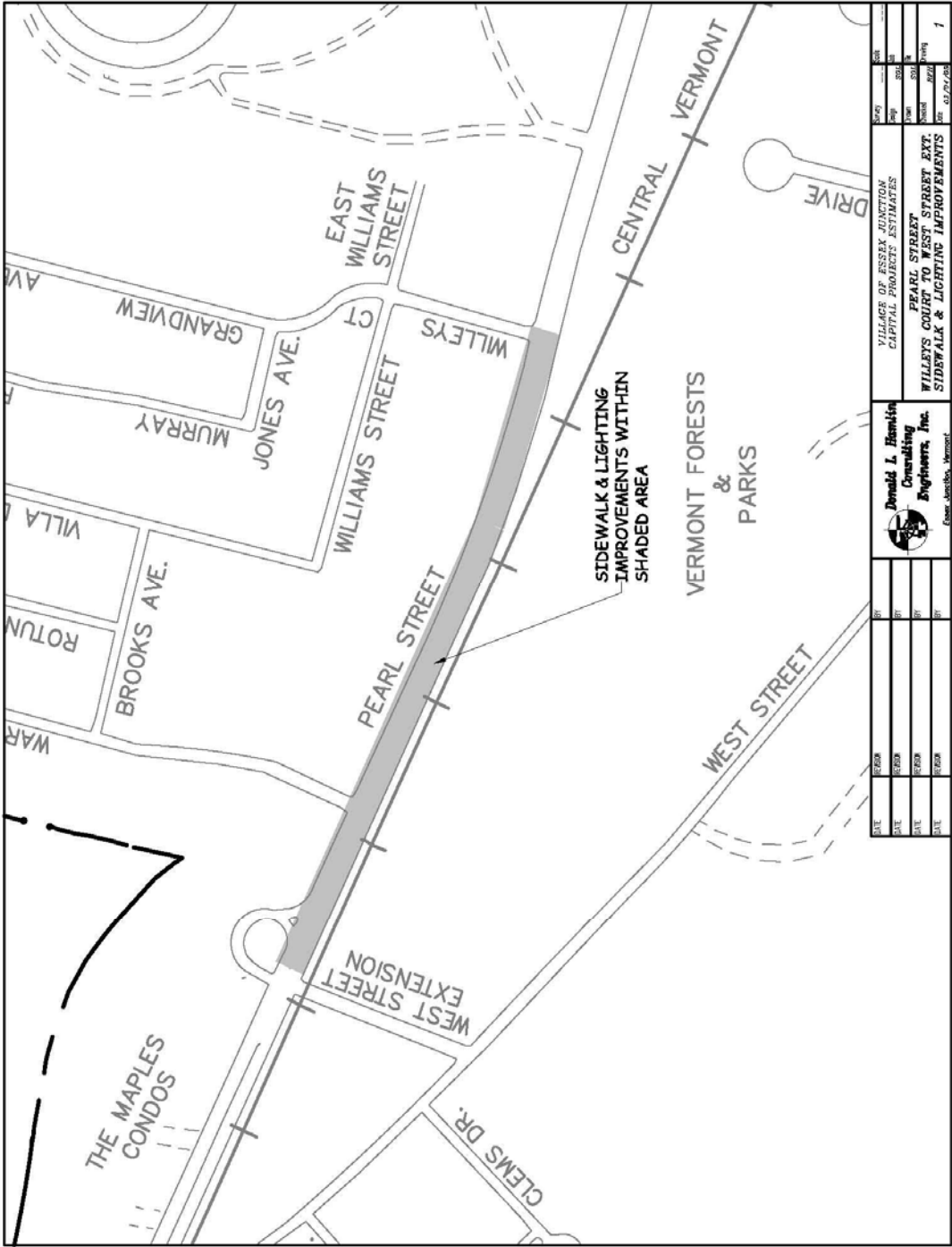
New lights shall be the Gas Style Lamps.

A portion of each residential driveway will be rebuilt to match new sidewalk.

Green Mountain Power to remove existing Cobra Head Lights.

O	Pavement Overlay		
R	Roadway Reconstruction	\$	180,352.49
W	Waterline Improvements	\$	6,807.49
S	Sanitary Sewer Improvements		
D	Storm Drainage Improvements	\$	17,775.93
P	Sidewalk Improvements	\$	1,113,555.88
	Combined Total	\$	1,318,491.80

# Village of Essex Junction Capital Projects Construction Cost Estimate



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Pearl Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Sidewalk and Lighting Improvements from Willeys Court to West Street Extension**

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	2,600	lf	\$ 3.35	\$ 8,710.00
2) Excavation of Pavement 4" to 6" Thick	1,680	sy	\$ 10.19	\$ 17,119.20
3) Remove Existing Concrete Sidewalk	1,750	sy	\$ 13.23	\$ 23,152.50
4) Remove Existing Concrete Curb	100	lf	\$ 5.58	\$ 558.00
5) Remove and Reset Existing Granite Curb	1,010	lf	\$ 19.45	\$ 19,644.50
6) New Granite Curb	550	lf	\$ 42.35	\$ 23,292.50
7) Cold Plane Pavement 12" Strip at Joint	1,375	sy	\$ 25.32	\$ 34,815.00
8) Excavation for New Roadway Subbase	100	cy	\$ 21.00	\$ 2,100.00
9) Dense Graded Crushed Stone	80	cy	\$ 35.96	\$ 2,876.80
10) Plant Mixed Gravel	25	cy	\$ 35.39	\$ 884.75
11) Mirafi 500X Geotextile Fabric	125	sy	\$ 1.67	\$ 208.75
12) New Cement Concrete Sidewalk - 5" Thick	1,525	sy	\$ 74.06	\$ 112,941.50
13) New Cement Concrete Sidewalk - 8" Thick (eared section)	450	sy	\$ 121.42	\$ 54,639.00
14) Detectable Warning Surface	7	sy	\$ 310.73	\$ 2,175.11
15) New Bituminous Concrete Pavement - 3", Type II	350	sy	\$ 20.16	\$ 7,056.00
16) New Bituminous Concrete Pavement - 1-1/4", Type III	450	sy	\$ 9.49	\$ 4,270.50
17) New Bituminous Concrete Pavement - 3" Thick Over Trench	830	sy	\$ 55.47	\$ 46,040.10
18) New Bituminous Concrete Pavement - 1-1/4", Type III (HW)	1,005	sy	\$ 18.99	\$ 19,084.95
19) New Gas Lamp Style Light (Base, Pole and Fixture)	48	each	\$ 6,762.44	\$ 324,597.12
20) New Wired Conduit for Lighting	3,800	lf	\$ 19.85	\$ 75,430.00
21) Lighting Pedestal Meter Socket/Load Center (Includes Timer)	1	ls	\$ 8,631.43	\$ 8,631.43
22) Catch Basin - 4' dia., To 8' Deep	2	each	\$ 4,223.58	\$ 8,447.16
23) 15" HDPE Drainage Pipe - To 8' Deep	30	lf	\$ 58.51	\$ 1,755.30
24) Connect New Pipe to Existing Structure	2	each	\$ 918.80	\$ 1,837.60
25) Remove and Reset Existing Catch Basin Frame and Grate	2	each	\$ 813.33	\$ 1,626.66
26) Concrete Cap for Island	140	sy	\$ 67.90	\$ 9,506.00

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Pearl Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Sidewalk and Lighting Improvements from Willeys Court to West Street Extension**

ITEM	QUANTITY	UNIT	PRICE	TOTAL
27) Supply and Spread Topsoil	325	cy	\$ 39.89	\$ 12,964.25
28) New Landscaping	1	ls	\$15,000.00	\$ 15,000.00
29) Seed, Fertilize, Lime and Matting	2,875	sy	\$ 2.88	\$ 8,280.00
30) Changeable Message Boards	185	day	\$ 258.94	\$ 47,903.90
31) Remove Existing Sign	20	each	\$ 43.11	\$ 862.20
32) New Sign	120	sf	\$ 23.41	\$ 2,809.20
33) New Sign Post	20	each	\$ 108.10	\$ 2,162.00
34) Raise Existing Hydrant	3	each	\$ 858.25	\$ 2,574.75
35) Adjust Existing Curb Stop Box to New Finish Grade	7	each	\$ 136.88	\$ 958.16
36) Adjust Existing Gate Valve Box to New Finish Grade	6	each	\$ 203.33	\$ 1,219.98
37) 12" Wide Crosswalk Bar - Painted	192	each	\$ 7.48	\$ 1,436.16
38) Replace Existing Utility Pole (Includes Utility Transfer)	6	each	\$ 8,372.49	\$ 50,234.94
39) Traffic Control - Type IV	60	day	\$ 1,381.03	\$ 82,861.80
40) Dust Control - Type III	1	ls	\$ 5,754.29	\$ 5,754.29
41) Mobilization	---	---	5%	\$ 52,321.10
Contingency	---	---	20%	\$ 219,748.63

Subtotal \$ 1,318,491.80

Design Engineering Services \$ 105,479.34

Bidding and Construction Services \$ 131,849.18

Grand Total \$ 1,555,820.32

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Pearl Street**

Cost Reference Date: 5/1/2017  
Estimate Preparation Date: 5/1/2017

**Sidewalk and Roadway Improvements from West Street to Susie Wilson Road**

Original Capital Plan Date: 2/3/2009

Primary Project Reason:

Improve Streetscape along Pearl Street

Secondary Project Reason:

Traffic Calming

Added a bike lane on both east and west bound portions of Route 15.

Assumptions:

New sidewalk will be 5' wide.

5' wide green belt.

Pearl Street to be re-striped to change lane configurations

A portion of each residential driveway will be rebuilt to match new sidewalk.

Green Mountain Power to remove existing Cobra Head Lights.

O	Pavement Overlay		
R	Roadway Reconstruction	\$	223,604.16
W	Waterline Improvements	\$	8,588.62
S	Sanitary Sewer Improvements		
D	Storm Drainage Improvements	\$	47,579.32
P	Sidewalk Improvements	\$	491,335.01
	Combined Total	\$	771,107.11

TRAVEL LANE AND BIKE PATH REALIGNMENT, SIDEWALK IMPROVEMENTS WITHIN SHADED AREA.

PEARL STREET

THE MAPLES CONDOS

WEST STREET EXTENSION

CLEMS DR.

PINE CT.

SUSIE WILSON

VT. RTE. 15

PEARL STREET

WEST STREET EXT. TO SUSIE WILSON RD. ROADWAY LANE & SIDEWALK IMPROVEMENTS

Donald L. Hamlin Consulting Engineers, Inc.

VILLAGE OF ASSEY HUNTON CAPITAL PROJECTS ESTIMATES

DATE	BY	REVISION	DESCRIPTION
12/15/2010	DLH	1	INITIAL DESIGN
12/15/2010	DLH	2	REVISIONS
12/15/2010	DLH	3	REVISIONS
12/15/2010	DLH	4	REVISIONS

1

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Pearl Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Sidewalk and Roadway Improvements from West Street to Susie Wilson Road**

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	3,780	lf	\$ 3.35	\$ 12,663.00
2) Excavation of Pavement 4" to 6" Thick	775	sy	\$ 10.19	\$ 7,897.25
3) Remove Existing Bituminous Concrete Sidewalk	900	sy	\$ 6.21	\$ 5,589.00
4) Remove and Reset Existing Granite Curb	1,850	lf	\$ 19.45	\$ 35,982.50
5) New Granite Curb	100	lf	\$ 42.35	\$ 4,235.00
6) Cold Plane Pavement 12" Strip at Joint	275	sy	\$ 25.32	\$ 6,963.00
7) Excavation for New Roadway Subbase	700	cy	\$ 21.00	\$ 14,700.00
8) Dense Graded Crushed Stone	550	cy	\$ 35.96	\$ 19,778.00
9) Plant Mixed Gravel	150	cy	\$ 35.39	\$ 5,308.50
10) Mirafi 500X Geotextile Fabric	825	sy	\$ 1.67	\$ 1,377.75
11) New Cement Concrete Sidewalk - 5" Thick	800	sy	\$ 74.06	\$ 59,248.00
12) New Cement Concrete Sidewalk - 8" Thick (eared section)	500	sy	\$ 121.42	\$ 60,710.00
13) Detectable Warning Surface	10	sy	\$ 310.73	\$ 3,107.30
14) New Bituminous Concrete Pavement - 3" Thick Over Trench	1,575	sy	\$ 55.47	\$ 87,365.25
15) New Bituminous Concrete Pavement - 1-1/4", Type III (HW)	1,850	sy	\$ 18.99	\$ 35,131.50
16) Catch Basin - 4' dia., To 8' Deep	5	each	\$ 4,223.58	\$ 21,117.90
17) Connect Existing Pipe to New Structure	10	each	\$ 918.80	\$ 9,188.00
18) Remove and Reset Existing Catch Basin Frame and Grate	5	each	\$ 813.33	\$ 4,066.65
19) Concrete Cap for Island	425	sy	\$ 67.90	\$ 28,857.50
20) Supply and Spread Topsoil	200	cy	\$ 39.89	\$ 7,978.00
21) Seed, Fertilize, Lime and Matting	1,600	sy	\$ 2.88	\$ 4,608.00
22) Changeable Message Boards	125	day	\$ 258.94	\$ 32,367.50
23) Remove Existing Sign	15	each	\$ 43.11	\$ 646.65
24) New Sign	90	sf	\$ 23.41	\$ 2,106.90
25) New Sign Post	15	each	\$ 108.10	\$ 1,621.50
26) Raise Existing Hydrant	3	each	\$ 858.25	\$ 2,574.75



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Pearl Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Sidewalk and Roadway Improvements from West Street to Susie Wilson Road**

ITEM	QUANTITY	UNIT	PRICE	TOTAL
27) Adjust Existing Curb Stop Box to New Finish Grade	13	each	\$ 136.88	\$ 1,779.44
28) Adjust Existing Gate Valve Box to New Finish Grade	10	each	\$ 203.33	\$ 2,033.30
29) 12" Wide Crosswalk Bar - Painted	125	each	\$ 7.48	\$ 935.00
30) 4" White Line - Painted	10,260	lf	\$ 1.07	\$ 10,978.20
31) 4" Yellow Line - Painted	9,200	lf	\$ 1.07	\$ 9,844.00
32) Replace Existing Utility Pole (Includes Utility Transfer)	6	each	\$ 8,372.49	\$ 50,234.94
33) Traffic Control - Type IV	40	day	\$ 1,381.03	\$ 55,241.20
34) Dust Control - Type III	1	ls	\$ 5,754.29	\$ 5,754.29
35) Mobilization	---	---	5%	\$ 30,599.49
Contingency	---	---	20%	\$ 128,517.85

Subtotal	\$	771,107.11
Design Engineering Services	\$	69,399.64
Bidding and Construction Services	\$	77,110.71
Grand Total	\$	917,617.46

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**West Street**

Cost Reference Date: 5/1/2017

**Sidewalk Improvements from South Street to Clems Drive**

Estimate Preparation Date: 5/1/2017

Original Capital Plan Date: 2/18/2009

Primary Project Reason:

Replace narrow and decaying sidewalk

Secondary Project Reason:

Assumptions:

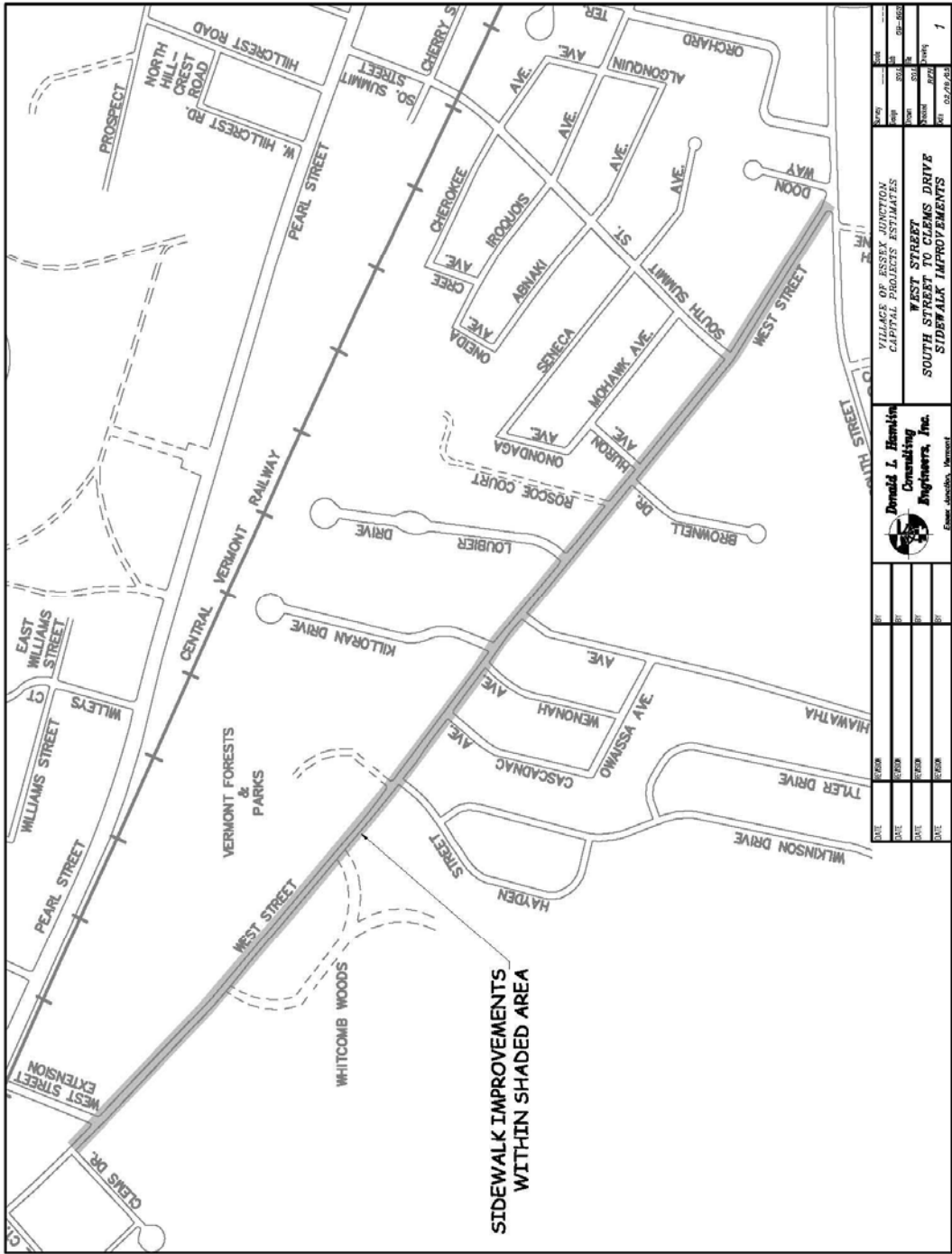
New sidewalk will be 5' wide.

5' wide green belt.

A portion of each residential driveway will be rebuilt to match new sidewalk.

O	Pavement Overlay		
R	Roadway Reconstruction		
W	Waterline Improvements	\$	17,469.87
S	Sanitary Sewer Improvements		
D	Storm Drainage Improvements		
P	Sidewalk Improvements	\$	563,066.66
	Combined Total	\$	580,536.53

# Village of Essex Junction Capital Projects Construction Cost Estimate



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**West Street**

Cost Reference Date: 5/1/2017

**Sidewalk Improvements from South Street to Clems Drive**

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 3" Thick	1,000	lf	\$ 2.30	\$ 2,300.00
2) Excavation of Pavement to 3" Thick	2,250	sy	\$ 6.21	\$ 13,972.50
3) Remove Existing Concrete Sidewalk	1,100	sy	\$ 13.23	\$ 14,553.00
4) Remove and Reset Existing Granite Curb	40	lf	\$ 19.45	\$ 778.00
5) New Cement Concrete Sidewalk - 4" Thick	2,160	sy	\$ 67.90	\$ 146,664.00
6) New Cement Concrete Sidewalk - 6" Thick	790	sy	\$ 92.95	\$ 73,430.50
7) Detectable Warning Surface	25	sy	\$ 310.73	\$ 7,768.25
8) New Bituminous Concrete Driveway and Apron	1,100	sy	\$ 48.34	\$ 53,174.00
9) Supply and Spread Topsoil	525	cy	\$ 39.89	\$ 20,942.25
10) Seed, Fertilize, Lime and Matting	4,800	sy	\$ 2.88	\$ 13,824.00
11) Changeable Message Boards	125	day	\$ 258.94	\$ 32,367.50
12) Raise Existing Hydrant	6	each	\$ 858.25	\$ 5,149.50
13) Adjust Existing Curb Stop Box to New Finish Grade	43	each	\$ 136.88	\$ 5,885.84
14) Adjust Existing Gate Valve Box to New Finish Grade	10	each	\$ 203.33	\$ 2,033.30
15) Traffic Control - Type IV	45	day	\$ 1,381.03	\$ 62,146.35
16) Dust Control - Type III	1	ls	\$ 5,754.29	\$ 5,754.29
17) Mobilization	---	---	5%	\$ 23,037.16
18) Contingency	---	---	20%	\$ 96,756.09

Subtotal	\$	580,536.53
Design Engineering Services	\$	52,248.29
Bidding and Construction Services	\$	58,053.65
Grand Total	\$	690,838.47

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Main Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Install New Sidewalk and Lighting from Bridge to Crestview Road on the West Side**

Original Capital Plan Date: 4/21/2014

Primary Project Reason:

Install new 5' wide cement concrete sidewalk along west side of a  
Class I Highway and install new lighting to improve pedestrian safety.

Secondary Project Reason:

Assumptions:

Two way traffic maintained  
A portion of each residential driveway will be rebuilt to match new sidewalk.  
New Lights to be installed along new sidewalk.  
Project to enclose current open drainage has been completed,  
Construction in 2015

Public Works Accounts:

O	Pavement Overlay	\$	-
R	Roadway Reconstruction	\$	-
W	Waterline Improvements	\$	-
S	Sanitary Sewer Improvements	\$	-
D	Storm Drainage Improvements	\$	-
P	Sidewalk Improvements	\$	226,192.06
Combined Account Costs		\$	226,192.06
Project Management, Design and Resident Engineering		\$	45,238.41
Total Project Cost		\$	271,430.48

[illegible]

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Main Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Install New Sidewalk and Lighting from Bridge to Crestview Road on the West Side**

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1) Saw Cut Existing Pavement	120	lf	\$ 3.35	\$ 402.00
2) Excavation of Pavement	200	sy	\$ 10.19	\$ 2,038.00
3) New Cement Concrete Sidewalk - 4" Thick	360	sy	\$ 67.90	\$ 24,444.00
4) New Cement Concrete Sidewalk - 6" Thick	65	sy	\$ 92.95	\$ 6,041.75
5) New Bituminous Concrete Driveway and Apron	135	sy	\$ 48.34	\$ 6,525.90
6) Detectable Warning Surface	2	sy	\$ 310.73	\$ 621.46
7) New Gas Lamp Style Light (Base, Pole and Fixture)	11	each	\$ 6,762.44	\$ 74,386.84
8) New Wired Conduit for Lighting	750	lf	\$ 19.85	\$ 14,887.50
9) Lighting Pedestal Meter Socket/Load Center (Includes Timer)	1	each	\$ 8,631.43	\$ 8,631.43
10) Supply and Spread Topsoil	100	cy	\$ 39.89	\$ 3,989.00
11) Seed, Fertilize, Lime and Matting	1,050	sy	\$ 2.88	\$ 3,024.00
12) Traffic Control	20	day	\$ 920.69	\$ 18,413.80
13) Message Boards	30	day	\$ 517.88	\$ 15,536.40
14) Dust Control	1	ls	\$ 575.43	\$ 575.43
15) Mobilization	---	---	5%	\$ 8,975.88
16) Contingency	---	---	20%	\$ 37,698.68

Subtotal \$ 226,192.06  
 \* - Design Engineering Services \$ 22,619.21  
 Bidding and Construction Services \$ 22,619.21  
 Grand Total \$ 271,430.48

\* - Double this amount if project is run through the LTF Program.

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**West Street**

Cost Reference Date: 5/1/2017

**West St. & West St. Ext. Intersection Improvements**

Estimate Preparation Date: 5/1/2017

Original Capital Plan Date: 6/14/2014

Primary Project Reason:

- Improve the vehicular and pedestrian safety of the intersection.
- Improve traffic flow through the intersection.

Secondary Project Reason:

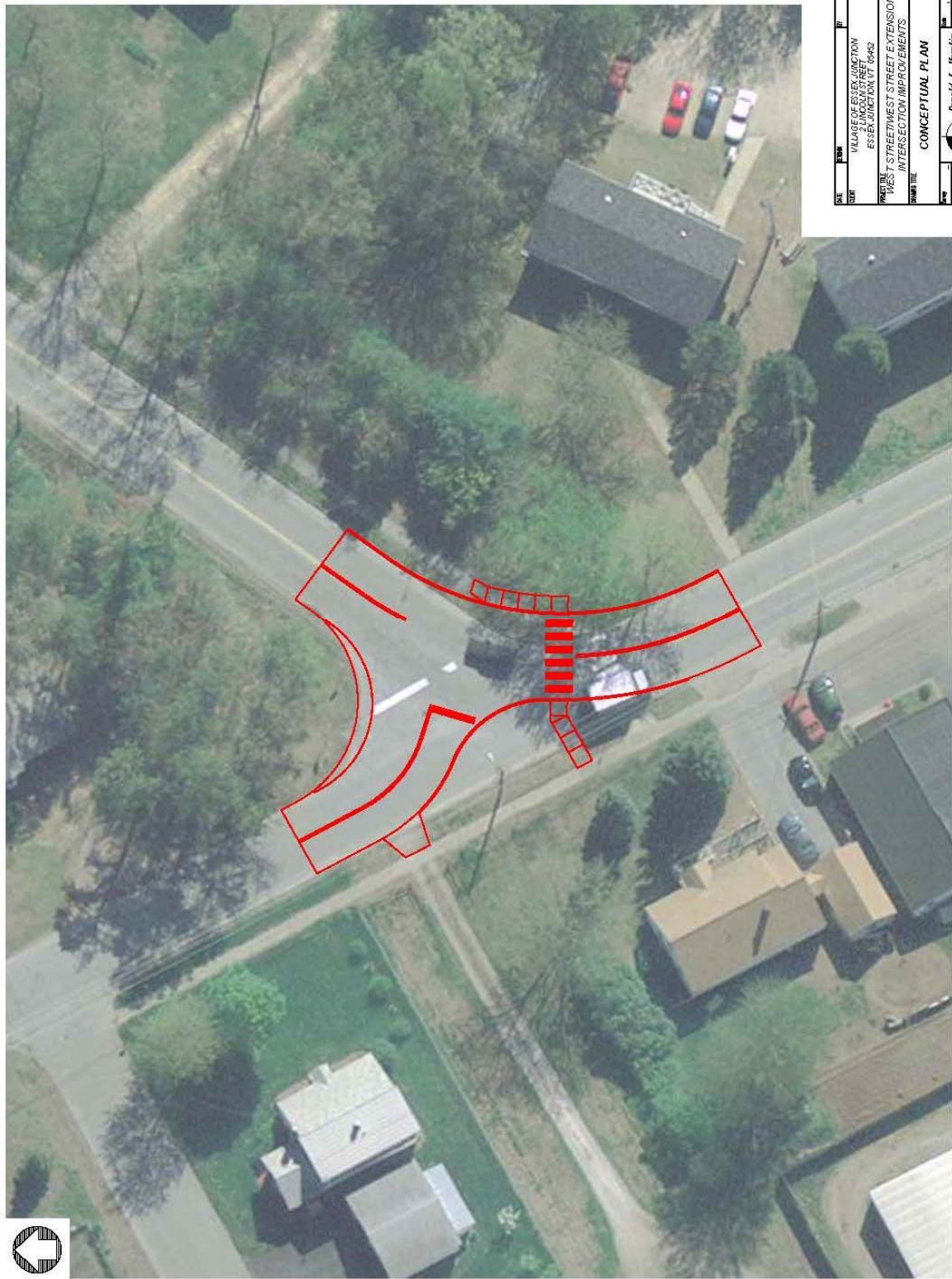
Assumptions:

- Entire intersection will receive an overlay and striping.
- Granite curb to be replaced with concrete curb.
- Existing signs will be utilized.
- Drainage improvements to accommodate new configuration.

O	Pavement Overlay	\$	10,671.47
R	Roadway Reconstruction	\$	48,864.57
W	Waterline Improvements		
S	Sanitary Sewer Improvements		
D	Storm Drainage Improvements	\$	16,289.39
P	Sidewalk Improvements	\$	4,028.80
	Combined Account Costs	\$	79,854.24
	Project Management, Design and Resident Engineering	\$	15,970.85
	Total Project Cost	\$	95,825.09



Village of Essex Junction  
Capital Projects  
Construction Cost Estimate



DATE	10/20/2011	BY	1
PROJECT	VILLAGE OF ESSEX JUNCTION 2 LINDEN STREET ESSEX JUNCTION, VT 05452		
PROJECT	WEST STREET/WEST STREET EXTENSION INTERSECTION IMPROVEMENTS		
DRAWN BY	CONCEPTUAL PLAN		
SCALE	1" = 40'	DATE	10/20/2011
BY	DL	DATE	10/20/2011
CHECKED	DL	DATE	10/20/2011
APPROVED	DL	DATE	10/20/2011
NO	10/20/2011	BY	DL

Donald L. Hamlin  
Consulting  
Engineers, Inc.  
1000 Main Street  
Essex Junction, VT 05452



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**West Street**

Cost Reference Date: 5/1/2017

**West St. & West St. Ext. Intersection Improvements**

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	225	lf	\$ 3.35	\$ 753.75
2) Excavation of Pavement 4" to 6" Thick	175	sy	\$ 10.19	\$ 1,783.25
3) Remove Existing Granite Curb	220	lf	\$ 5.66	\$ 1,245.20
4) Saw Cut Existing Cement Concrete 4" Thick	20	lf	\$ 4.17	\$ 83.40
5) Remove Existing Concrete Sidewalk	35	sy	\$ 13.23	\$ 463.05
6) Excavation for New Roadway Subbase	45	cy	\$ 21.00	\$ 945.00
7) Dense Graded Crushed Stone - 18"	35	cy	\$ 35.96	\$ 1,258.60
8) Plant Mixed Gravel - 6"	10	cy	\$ 35.39	\$ 353.90
9) New Bituminous Concrete Pavement - 3" Thick Over Trench	120	sy	\$ 55.47	\$ 6,656.40
10) New Bituminous Concrete Pavement - 1-1/2", Type III	585	sy	\$ 12.37	\$ 7,236.45
11) New Bituminous Concrete Driveway and Apron	10	sy	\$ 48.34	\$ 483.40
12) Remove Existing Structure - To 8' Deep	1	each	\$ 724.27	\$ 724.27
13) Remove Existing Pipe - To 8' Deep	20	lf	\$ 16.22	\$ 324.40
14) Connect New Structure to Existing Pipe	1	each	\$ 918.80	\$ 918.80
15) Catch Basin - 4' dia., To 8' Deep	2	each	\$ 4,223.58	\$ 8,447.16
16) 15" HDPE Drainage Pipe - To 8' Deep	30	lf	\$ 58.51	\$ 1,755.30
17) New Cement Concrete Sidewalk - 4" Thick	30	sy	\$ 67.90	\$ 2,037.00
18) New Cement Concrete Curb	325	lf	\$ 28.20	\$ 9,165.00
19) Detectable Warning Surface	2	sy	\$ 310.73	\$ 621.46
20) Remove and Reset Existing Sign	5	each	\$ 57.75	\$ 288.75
21) 24" Wide Stop Bar - Painted	13	lf	\$ 7.80	\$ 101.40
22) 12" Wide Crosswalk Bar - Painted	48	lf	\$ 7.48	\$ 359.04
23) 4" White Line - Painted	70	lf	\$ 1.07	\$ 74.90
24) 4" Yellow Line - Painted	400	lf	\$ 1.07	\$ 428.00
25) Supply and Spread Topsoil	40	cy	\$ 39.89	\$ 1,595.60
26) Seed, Fertilize, Lime and Matting	340	\$2.88	\$ 14.90	\$ 5,066.00

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**West Street**

Cost Reference Date: 5/1/2017

**West St. & West St. Ext. Intersection Improvements**

Estimate Preparation Date: 5/1/2017

ITEM		QUANTITY	UNIT	PRICE	TOTAL
27)	Traffic Control - Type III	10	day	\$ 920.69	\$ 9,206.90
28)	Dust Control - Type III	1	ls	\$ 1,000.00	\$ 1,000.00
29)	Mobilization	---	---	5%	\$ 3,168.82
	Contingency	---	---	20%	\$ 13,309.04

Subtotal	\$	79,854.24
Design Engineering Services	\$	7,985.42
Bidding and Construction Services	\$	7,985.42
Grand Total	\$	95,825.09

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Hillcrest Road**

Cost Reference Date: 5/1/2017

**Sidewalk Improvements from Pearl Street to Fleming School**

Estimate Preparation Date: 5/1/2017

Original Capital Plan Date: 4/6/2015

Primary Project Reason:

Requested by residents along the street

Secondary Project Reason:

Assumptions:

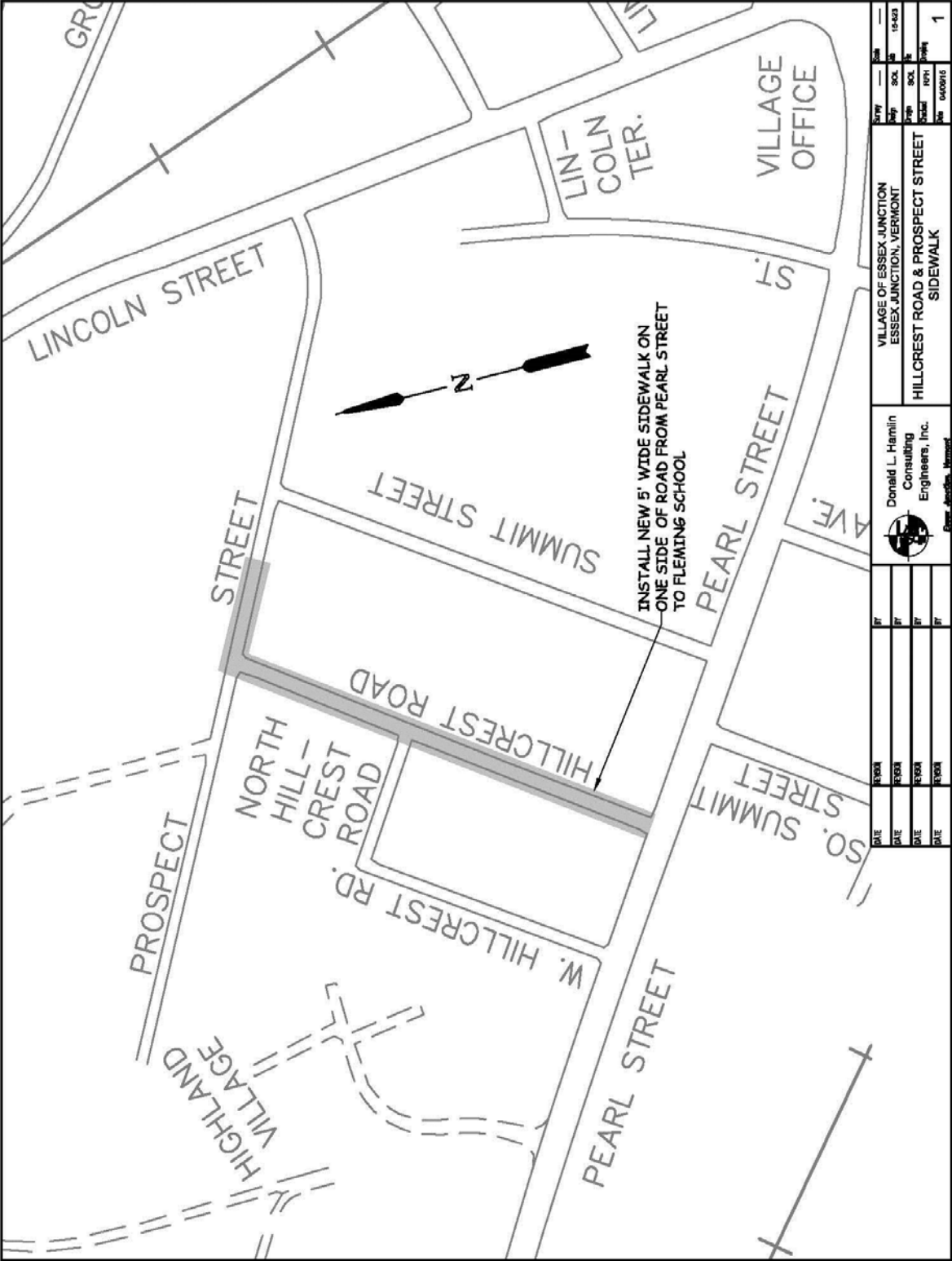
New sidewalk will be 5' wide.

3' wide green belt, except along new curb

A portion of each residential driveway will be rebuilt to match new sidewalk.

O	Pavement Overlay		
R	Roadway Reconstruction		
W	Waterline Improvements		
S	Sanitary Sewer Improvements		
D	Storm Drainage Improvements		
P	Sidewalk Improvements	\$	383,169.65
Combined Account Costs		\$	383,169.65
Project Management, Design and Resident Engineering		\$	76,633.93
Total Project Cost		\$	459,803.58

Village of Essex Junction  
 Capital Projects  
 Construction Cost Estimate



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Hillcrest Road**

Cost Reference Date: 5/1/2017

**Sidewalk Improvements from Pearl Street to Fleming School**

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 3" Thick	900	lf	\$ 2.30	\$ 2,070.00
2) Excavation of Pavement to 3" Thick	700	sy	\$ 6.21	\$ 4,347.00
3) Saw Cut Existing Cement Concrete 4" Thick	10	lf	\$ 4.17	\$ 41.70
4) Remove Existing Concrete Sidewalk	12	sy	\$ 13.23	\$ 158.76
5) Remove Existing Tree and Stump	8	each	\$ 949.46	\$ 7,595.68
6) Remove Existing Sign	5	each	\$ 43.11	\$ 215.55
7) Replace Existing Utility Pole (Includes Utility Transfer)	1	each	\$ 8,372.49	\$ 8,372.49
8) Remove and Reset Existing Blue Stone Walkway	22	sy	\$ 100.00	\$ 2,200.00
9) Remove and Reset Existing Fence	160	lf	\$ 25.00	\$ 4,000.00
10) New Wooden Guardrail	200	lf	\$ 24.00	\$ 4,800.00
11) Earth Borrow	300	cy	\$ 16.00	\$ 4,800.00
12) New Signs	108	sf	\$ 23.41	\$ 2,528.28
13) New Sign Posts	12	each	\$ 108.10	\$ 1,297.20
14) New Cement Concrete Sidewalk - 4" Thick	490	sy	\$ 74.06	\$ 36,289.40
15) New Cement Concrete Sidewalk - 6" Thick	100	sy	\$ 97.60	\$ 9,760.00
16) Detectable Warning Surface	4	sy	\$ 310.73	\$ 1,242.92
17) New Cement Concrete Curb	575	lf	\$ 28.20	\$ 16,215.00
18) Cold Plane Pavement 12" Strip at Joint	65	sy	\$ 25.32	\$ 1,645.80
19) New Bituminous Concrete Pavement - 1-1/4", Type III (HW)	200	sy	\$ 18.99	\$ 3,798.00
20) New Bituminous Concrete Pavement - 3" Thick Over Trench	130	sy	\$ 55.47	\$ 7,211.10
21) New Bituminous Concrete Driveway and Apron	445	sy	\$ 55.47	\$ 24,684.15
22) Adjust Existing Curb Stop Box to New Finish Grade	6	each	\$ 1,086.41	\$ 6,518.46
23) Adjust Existing Gate Valve Box to New Finish Grade	2	each	\$ 724.27	\$ 1,448.54
24) 4" SDR 35 PVC Carrier Pipe	350	lf	\$ 20.21	\$ 7,073.50
25) 4" SDR 35 PVC Underdrain Pipe	250	lf	\$ 23.49	\$ 5,872.50
26) New Retaining Walls	225	sy	\$ 435.00	\$ 97,875.00
27) New Tree	4	each	\$ 1,250.00	\$ 5,000.00

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Hillcrest Road**

Cost Reference Date: 5/1/2017

**Sidewalk Improvements from Pearl Street to Fleming School**

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
28) Supply and Spread Topsoil	200	cy	\$ 39.89	\$ 7,978.00
29) Seed, Fertilize, Lime and Matting	1,700	sy	\$ 2.88	\$ 4,896.00
30) Traffic Control - Type II	30	day	\$ 690.51	\$ 20,715.30
31) Dust Control - Type II	1	ls	\$ 3,452.57	\$ 3,452.57
32) Mobilization	---	---	5%	\$ 15,205.15
Contingency	---	---	20%	\$ 63,861.61

Subtotal \$ 383,169.65

Design Engineering Services \$ 38,316.97

Bidding and Construction Services \$ 38,316.97

Grand Total \$ 459,803.58

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Greenwood Avenue**

Cost Reference Date: 11/1/2015

**Drainage Course Improvements at 17 Greenwood Avenue**

Estimate Preparation Date: 5/1/2017

Original Capital Plan Date: 10/6/2015

Primary Project Reason:

Help reduce flooding of Greenwood Avenue residences during major rain storm events.

Secondary Project Reason:

Help reduce damage to 17 Greenwood Avenue during major rain storm events.

Assumptions:

Replace concrete sidewalk at driveway

Reconstruct entire driveway

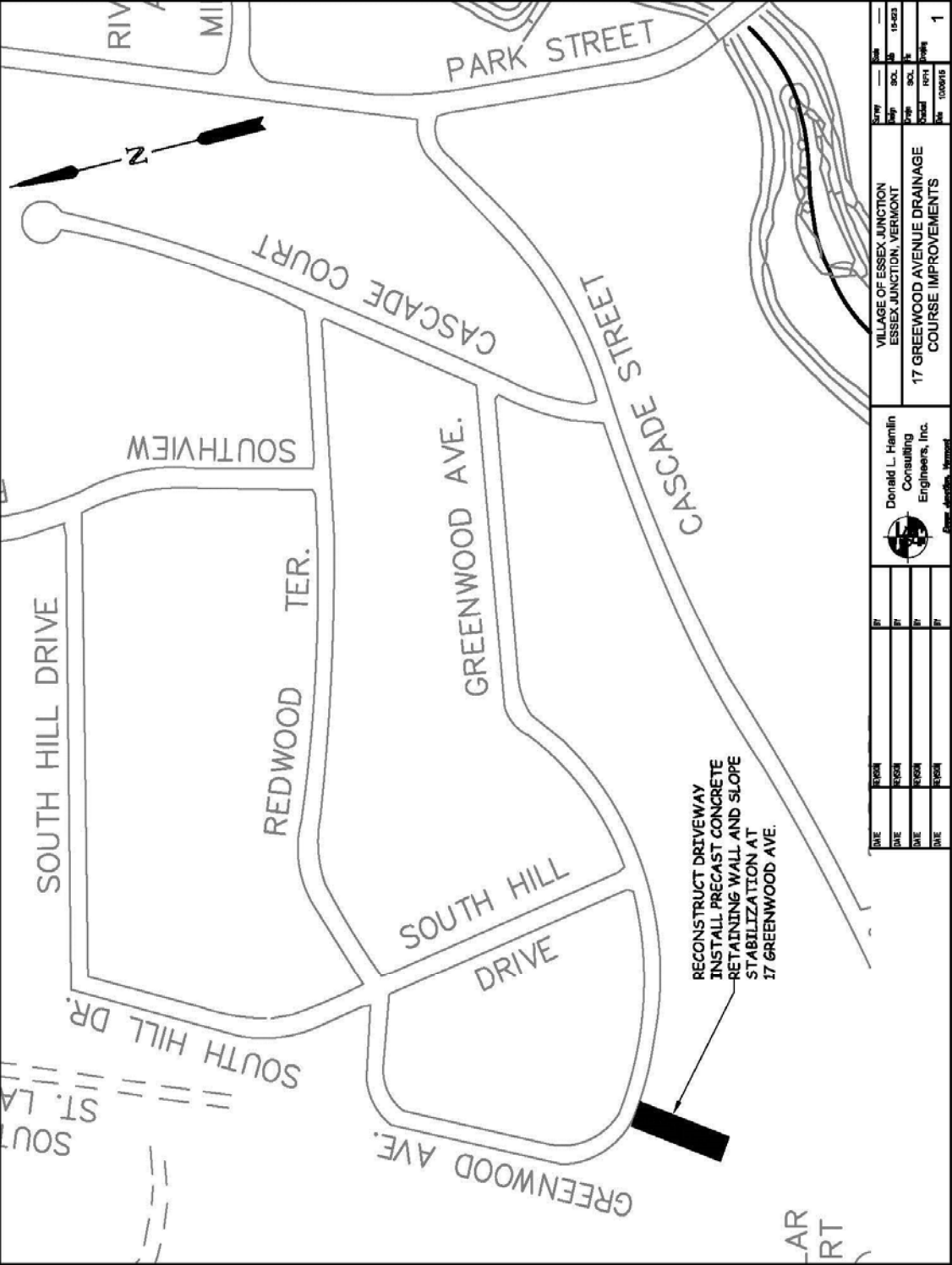
Install precast concrete block retaining wall

Install lawn reinforcement to prevent erosion

O	Pavement Overlay		
R	Roadway Reconstruction		
W	Waterline Improvements		
S	Sanitary Sewer Improvements		
D	Storm Drainage Improvements	\$	33,194.79
P	Sidewalk Improvements		
Combined Account Costs		\$	33,194.79
Project Management, Design and Resident Engineering		\$	6,638.96
Total Project Cost		\$	39,833.75



Village of Essex Junction  
 Capital Projects  
 Construction Cost Estimate



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Greenwood Avenue**

Cost Reference Date: 11/1/2015

**Drainage Course Improvements at 17 Greenwood Avenue**

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement	20	lf	\$ 3.35	\$ 67.00
2) Saw Cut Existing Cement Concrete	10	lf	\$ 4.17	\$ 41.70
3) Excavation of Pavement	235	sy	\$ 6.21	\$ 1,459.35
4) Remove Existing Concrete Sidewalk	22	sy	\$ 13.23	\$ 291.06
5) New Bituminous Concrete Driveway and Apron	240	sy	\$ 48.34	\$ 11,601.60
6) New Cement Concrete Curb	16	lf	\$ 28.20	\$ 451.20
7) New Cement Concrete Sidewalk - 4" Thick	4	sy	\$ 67.90	\$ 271.60
8) New Cement Concrete Sidewalk - 6" Thick	18	sy	\$ 92.95	\$ 1,673.10
9) Geoweb Slope Stabilization	700	sf	\$ 3.43	\$ 2,401.00
10) Supply and Spread Topsoil	35	cy	\$ 39.89	\$ 1,396.15
11) Seed, Fertilize, Lime and Matting	325	sy	\$ 2.88	\$ 936.00
12) 6' x 2' x 2' Precast Concrete Blocks	15	each	\$ 271.99	\$ 4,079.85
13) Wooden Guardrail	44	lf	\$ 38.08	\$ 1,675.46
14) Mobilization	---	---	5%	\$ 1,317.25
Contingency	---	---	20%	\$ 5,532.46

Subtotal	\$	33,194.79
Design Engineering Services	\$	3,319.48
Bidding and Construction Services	\$	3,319.48
Grand Total	\$	39,833.75

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Pearl Street**

**Multi-use Path through ANR from West St. to Pearl St.**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

Original Capital Plan Date: 5/1/2016

**Primary Project Reason:**

To provide a safe pedestrian and bicycle connection between West Street and Pearl Street, through the State parcel, as the nearest rail crossings are at West Street Extension and South Summit Street.

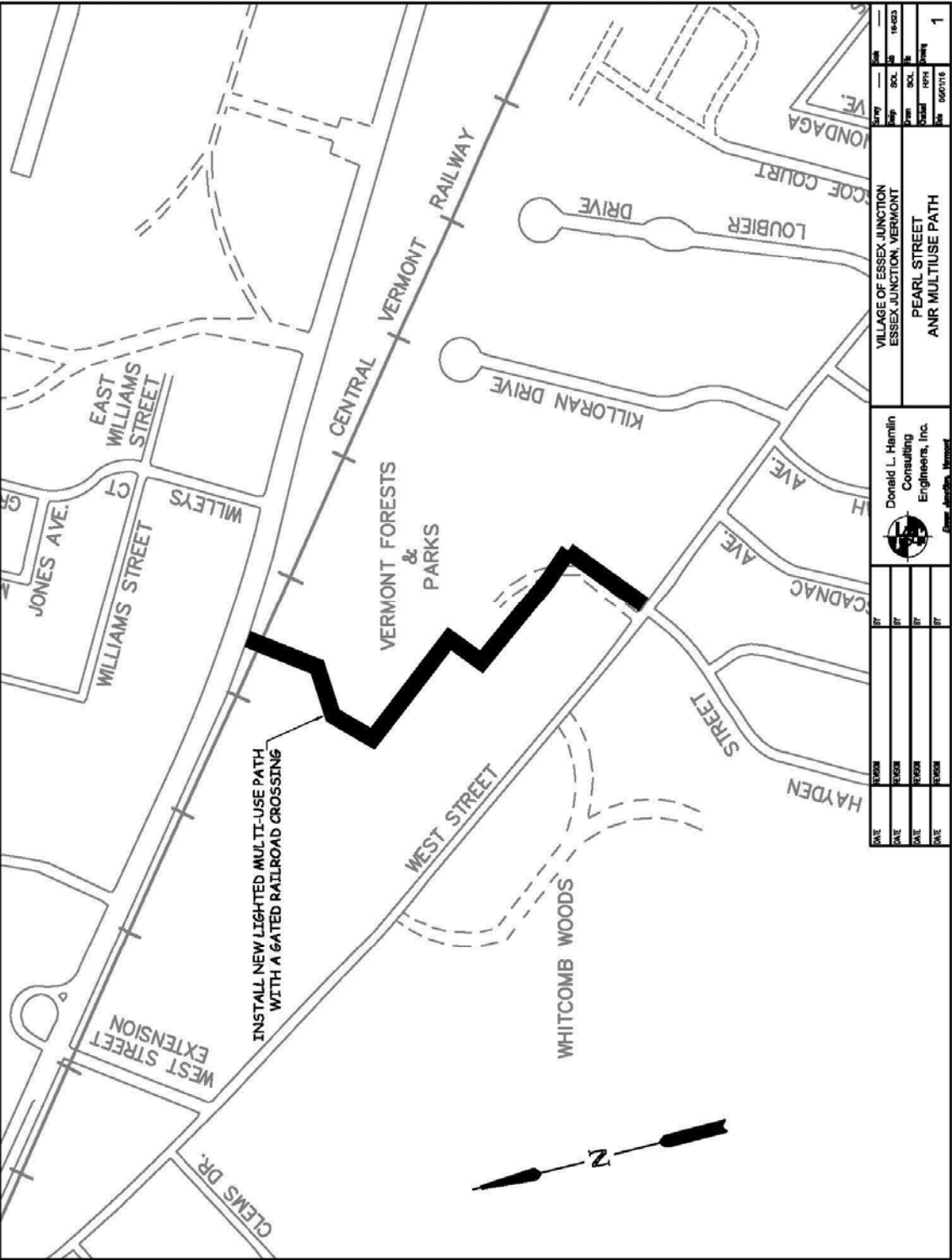
**Secondary Project Reason:**

A new multi-use path would provided greatly improved access to the community gardens and the dog park from Pearl Street and its adjacent neighbors.

**Assumptions:**

O	Pavement Overlay		
R	Roadway Reconstruction		
W	Waterline Improvements		
S	Sanitary Sewer Improvements		
D	Storm Drainage Improvements		
P	Sidewalk Improvements	\$	605,949.78
	Combined Account Costs	\$	605,949.78
	Project Management, Design and Resident Engineering	\$	115,130.46
	Total Project Cost	\$	721,080.23

# Village of Essex Junction Capital Projects Construction Cost Estimate



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Pearl Street**

Cost Reference Date: 5/1/2017

**Multi-use Path through ANR from West St. to Pearl St.**

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1) Clearing and Grubbing	1	ls	\$ 10,000.00	\$ 10,000.00
2) Saw Cut Existing Pavement	250	lf	\$ 3.35	\$ 837.50
3) Excavation of Pavement	300	sy	\$ 6.21	\$ 1,863.00
4) Saw Cut Existing Cement Concrete	20	lf	\$ 4.79	\$ 95.80
5) Remove Existing Concrete Sidewalk	20	sy	\$ 13.23	\$ 264.60
6) Remove Existing Concrete Curb	30	lf	\$ 5.58	\$ 167.40
7) Remove and Reset Existing Granite Curb	30	lf	\$ 19.45	\$ 583.50
8) New Cement Concrete Curb	30	lf	\$ 28.20	\$ 846.00
9) New Cement Concrete Sidewalk - 5" Thick	50	sy	\$ 74.06	\$ 3,703.00
10) Common Excavation	1,250	cy	\$ 21.00	\$ 26,250.00
11) Plant Mixed Gravel	1,350	cy	\$ 35.39	\$ 47,776.50
12) New Bituminous Concrete Pavement, Type II	80	ton	\$ 80.00	\$ 6,400.00
13) New Bituminous Concrete Pavement, Type IV	275	ton	\$ 80.00	\$ 22,000.00
14) Detectable Warning Surface	10	sy	\$ 310.73	\$ 3,107.30
15) New Box Light (Base, Pole and Fixture)	17	each	\$ 6,447.51	\$ 109,607.67
16) New Wired Conduit for Lighting	1,750	lf	\$ 19.85	\$ 34,737.50
17) Lighting Pedestal Meter Socket/Load Center (Includes Timer)	1	each	\$ 8,631.43	\$ 8,631.43
18) Supply and Spread Topsoil	275	cy	\$ 39.89	\$ 10,969.75
19) Seed, Fertilize, Lime and Matting	2,330	sy	\$ 2.88	\$ 6,710.40
20) Concrete Filled Steel Bollard	21	each	\$ 295.77	\$ 6,211.17
21) 6' Chain Link Fence	900	lf	\$ 33.50	\$ 30,150.00
22) Railroad Crossing	1	ls	\$ 150,000.00	\$ 150,000.00
23) Mobilization	---	---	5%	\$ 24,045.63
Contingency	---	---	20%	\$ 100,991.63

Subtotal \$ 605,949.78  
Design Engineering Services \$ 54,535.48  
Bidding and Construction Services \$ 60,594.98  
Grand Total \$ 721,080.23

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**South Street**

**Sidewalk and Drainage Improvements**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

Original Capital Plan Date: 5/1/2016

Primary Project Reason:

Help reduce flooding of South Street Residences during major rain storm events.

Secondary Project Reason:

Assumptions:

Replace 505' concrete sidewalk along South Street with new 5' wide concrete walk.

Reconstruct driveways

Install new overflow drainage pipe

O	Pavement Overlay		
R	Roadway Reconstruction		
W	Waterline Improvements		
S	Sanitary Sewer Improvements		
D	Storm Drainage Improvements	\$	33,061.51
P	Sidewalk Improvements	\$	57,708.27
Combined Account Costs		\$	94,740.28
Project Management, Design and Resident Engineering		\$	18,948.06
Total Project Cost		\$	113,688.34

**REVISIONS**

DATE	BY	CHKD	DESCRIPTION
04/10/2018	DLH	DLH	1.00

**PROJECT INFORMATION**

VILLAGE OF ESSEX JUNCTION  
 ESSEX JUNCTION, VERMONT  
 SOUTH STREET SIDEWALK AND  
 DRAINAGE IMPROVEMENTS

**DESIGNER**  
 Donald L. Hamlin  
 Consulting  
 Engineers, Inc.

**SCALE**  
 1" = 20'

**DATE**  
 04/10/2018

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**South Street  
Sidewalk and Drainage Improvements**

Cost Reference Date: 5/1/2017  
Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement	300	lf	\$ 3.35	\$ 1,005.00
2) Saw Cut Existing Cement Concrete	20	lf	\$ 4.17	\$ 83.40
3) Excavation of Pavement	250	sy	\$ 6.21	\$ 1,552.50
4) Remove Existing Concrete Sidewalk	290	sy	\$ 13.23	\$ 3,836.70
5) New Bituminous Concrete Driveway and Apron	205	sy	\$ 48.34	\$ 9,909.70
6) New Cement Concrete Sidewalk - 4" Thick	215	sy	\$ 67.90	\$ 14,598.50
7) New Cement Concrete Sidewalk - 6" Thick	75	sy	\$ 92.95	\$ 6,971.25
8) 12" HDPE Drainage Pipe	290	lf	\$ 58.51	\$ 16,967.90
9) Connect New Pipe to Existing Structure	2	each	\$ 918.80	\$ 1,837.60
10) Plant Mixed Gravel	150	cy	\$ 35.39	\$ 5,308.50
11) Sand Borrow	150	cy	\$ 26.47	\$ 3,970.50
12) New Bituminous Concrete Pavement - 3" Thick Over Trench	45	sy	\$ 55.47	\$ 2,496.15
13) Supply and Hand Dress Topsoil	100	cy	\$ 39.89	\$ 3,989.00
14) Seed, Fertilize, Lime and Matting	925	sy	\$ 2.88	\$ 2,664.00
15) Mobilization	---	---	5%	\$ 3,759.54
Contingency	---	---	20%	\$ 15,790.05

Subtotal \$ 94,740.28  
Design Engineering Services \$ 9,474.03  
Bidding and Construction Services \$ 9,474.03  
Grand Total \$ 113,688.34



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Lincoln Hall**

**Sidewalk, Handicap Ramp and Parking Improvements**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

Original Capital Plan Date: 5/1/2016

Primary Project Reason:

Reduce number of accidents with Senior Bus and separate bus and pedestrian traffic from the Village Office's parking lot traffic.

Secondary Project Reason:

Assumptions:

O	Pavement Overlay		
R	Roadway Reconstruction		
W	Waterline Improvements		
S	Sanitary Sewer Improvements		
D	Storm Drainage Improvements		
P	Sidewalk Improvements	\$	35,073.01
Combined Account Costs		\$	35,073.01
Project Management, Design and Resident Engineering		\$	7,014.60
Total Project Cost		\$	42,087.61

**VILLAGE OF ESSEX JUNCTION  
ESSEX JUNCTION, VERMONT**

**LINCOLN HALL  
SENIOR BUS PARKING IMPROVEMENTS**

Donald L. Hamlin  
Consulting  
Engineers, Inc.

DATE: 12/20/03 BY: [Signature]  
DATE: 12/20/03 BY: [Signature]  
DATE: 12/20/03 BY: [Signature]

SCALE: 1" = 100'

1

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Lincoln Hall**

**Sidewalk, Handicap Ramp and Parking Improvements**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement	100	lf	\$ 3.35	\$ 335.00
2) Saw Cut Existing Cement Concrete	40	lf	\$ 4.17	\$ 166.80
3) Excavation of Pavement	80	sy	\$ 6.21	\$ 496.80
4) Remove Existing Concrete Sidewalk	30	sy	\$ 13.23	\$ 396.90
5) Remove Existing Curb	110	lf	\$ 5.58	\$ 613.80
6) Remove Existing Sign	2	each	\$ 43.11	\$ 86.22
7) Remove Existing Steel Railings	1	ls	\$ 175.00	\$ 175.00
8) New 6" Concrete Curb	110	lf	\$ 28.20	\$ 3,102.00
9) New 8" Concrete Curb	15	lf	\$ 42.30	\$ 634.50
10) Plant Mixed Gravel	75	cy	\$ 35.39	\$ 2,654.25
11) Crushed Stone	25	cy	\$ 64.03	\$ 1,600.75
12) 4' Concrete Wall	40	lf	\$ 94.50	\$ 3,780.00
13) Concrete Sidewalk	25	sy	\$ 92.95	\$ 2,323.75
14) Stamped Colored Concrete	36	sy	\$ 200.00	\$ 7,200.00
15) Hand Railing	60	lf	\$ 49.00	\$ 2,940.00
16) Pavement Sealing	185	sy	\$ 3.27	\$ 604.95
17) New Signs	2	each	\$ 275.00	\$ 550.00
18) Pavement Markings 4" White Stripe	175	lf	\$ 1.00	\$ 175.00
19) Mobilization	---	---	5%	\$ 1,391.79
Contingency	---	---	20%	\$ 5,845.50

Subtotal	\$	35,073.01
Design Engineering Services	\$	3,507.30
Bidding and Construction Services	\$	3,507.30
Grand Total	\$	42,087.61

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Rosewood Lane**

**Road Reconstruction and Sidewalk Replacement**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

Original Capital Plan Date: 11/3/2016

Primary Project Reason:

The existing roadway is subject to severe frost action.

Secondary Project Reason:

Assumptions:

New roadway will have a pavement width of 30' and curb on both sides.

Existing drainage structures will set to new finish grade.

Insulation will be utilized versus underdrain.

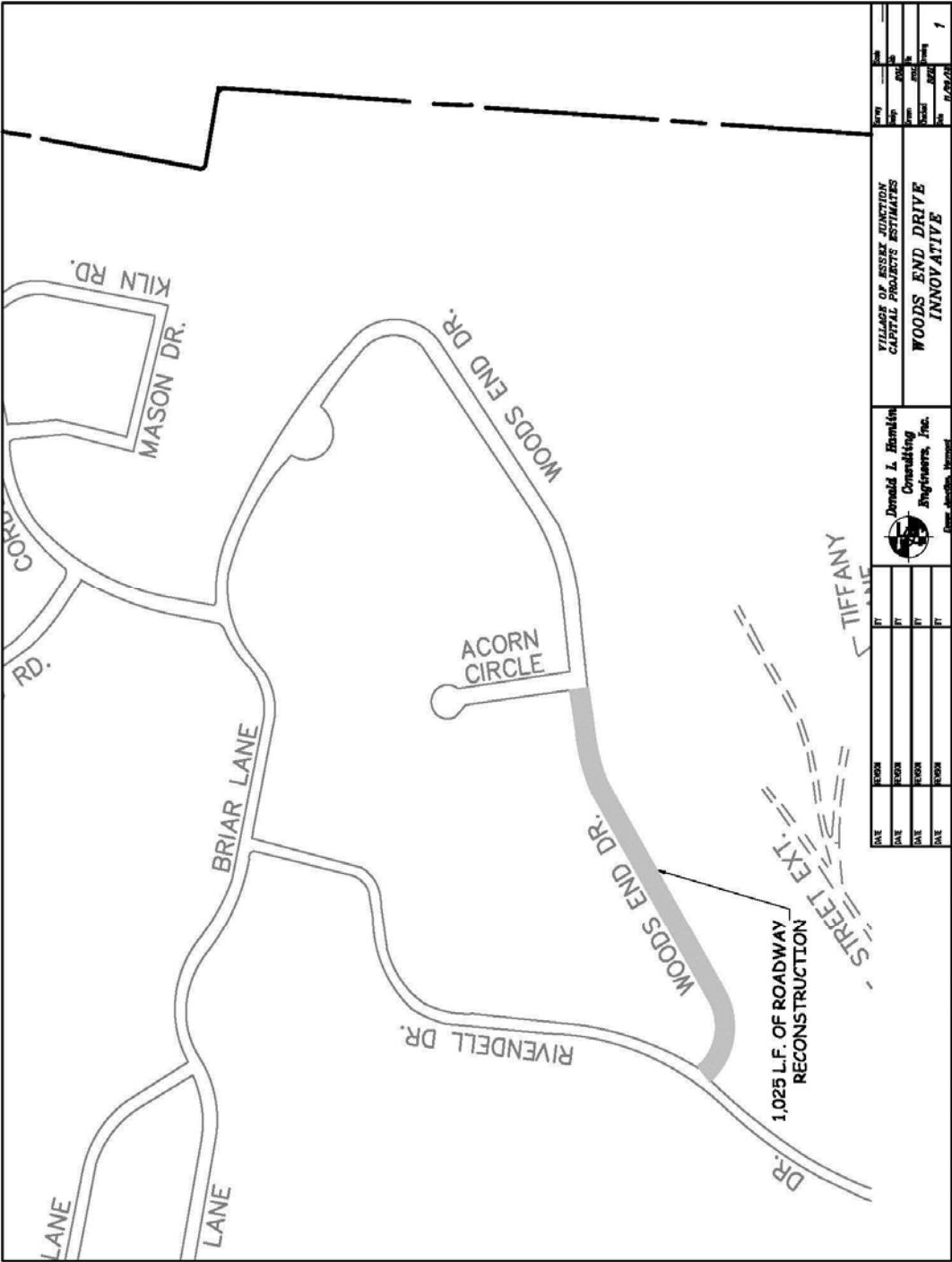
A portion of each residential driveway will be rebuilt to match new roadway.

The existing storm drainage pipe with the zone shall be inspected with a camera.

O	Pavement Overlay	\$	-
R	Roadway Reconstruction	\$	1,028,532.18
W	Waterline Improvements	\$	-
S	Sanitary Sewer Improvements	\$	48,307.70
D	Storm Drainage Improvements	\$	12,912.01
P	Sidewalk Improvements	\$	128,924.87
Combined Total		\$	1,218,676.75

Cost is based upon 2012 unit prices without ENR Construction Cost Index adjustment.

Village of Essex Junction  
 Capital Projects  
 Construction Cost Estimate



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Rosewood Lane**

**Road Reconstruction and Sidewalk Replacement**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	800	lf	\$ 3.35	\$ 2,680.00
2) Excavation of Pavement 4" to 6" Thick	7,375	sy	\$ 10.19	\$ 75,151.25
3) Remove Existing Concrete Curb	3,875	lf	\$ 5.58	\$ 21,622.50
4) Excavation for New Roadway Subbase	5,850	cy	\$ 21.00	\$ 122,850.00
5) Sand Borrow - 3"	675	cy	\$ 26.47	\$ 17,867.25
6) New 2" Thick Extruded Polystyrene Insulation	119,000	sf	\$ 2.07	\$ 246,330.00
7) Dense Graded Crushed Stone - 18"	3,400	cy	\$ 35.96	\$ 122,264.00
8) Plant Mixed Gravel - 6"	1,150	cy	\$ 35.39	\$ 40,698.50
9) New Bituminous Concrete Pavement - 2", Type II	6,175	sy	\$ 12.37	\$ 76,384.75
10) New Bituminous Concrete Pavement - 1-1/2", Type III	6,200	sy	\$ 9.49	\$ 58,838.00
11) Cold Plane Pavement 12" Strip at Joint	25	sy	\$ 25.32	\$ 633.00
12) New Bituminous Concrete Driveway and Apron	850	sy	\$ 48.34	\$ 41,089.00
13) Remove and Reset Existing Catch Basin Frame and Grate	7	each	\$ 813.33	\$ 5,693.31
14) Remove Existing Manhole Frame and Cover, Replace with New	6	each	\$ 1,101.95	\$ 6,611.70
15) Adjust Existing Gate Valve Box to New Finish Grade	8	each	\$ 203.33	\$ 1,626.64
16) New Cement Concrete Curb	3,900	lf	\$ 28.20	\$ 109,980.00
17) Saw Cut Existing Concrete	40	lf	\$ 4.79	\$ 191.60
18) Remove Existing Sidewalk	1,725	sy	\$ 13.23	\$ 22,821.75
19) New Cement Concrete Sidewalk - 4" Thick	675	sy	\$ 67.90	\$ 45,832.50
20) New Cement Concrete Sidewalk - 6" Thick	400	sy	\$ 92.95	\$ 37,180.00
21) Detectable Warning Surface	4	sy	\$ 310.73	\$ 1,242.92
22) Remove and Reset Existing Sign	10	each	\$ 109.25	\$ 1,092.50

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Rosewood Lane**

**Road Reconstruction and Sidewalk Replacement**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

ITEM	QUANTITY	UNIT	PRICE	TOTAL
23) Supply and Spread Topsoil	240	cy	\$ 39.89	\$ 9,573.60
24) Seed, Fertilize, Lime and Matting	2,100	sy	\$ 2.88	\$ 6,048.00
25) Traffic Control - Type II	40	day	\$ 690.51	\$ 27,620.40
26) Dust Control - Type II	1	ls	\$ 3,452.57	\$ 3,452.57
27) Mobilization	---	---	5%	\$ 55,268.79
Contingency	---	---	5%	\$ 58,032.23

Subtotal \$ 1,218,676.75

Design Engineering Services \$ 97,494.14

Bidding and Construction Services \$ 121,867.68

Grand Total \$ 1,438,038.57

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Main Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Install 8' Wide Pedestrian Bridge over Indian Brook on East Side Main Street**

Original Capital Plan Date: 12/9/2016

Primary Project Reason:

Replace existing pedestrian bridge which is failing

Secondary Project Reason:

Provide bicycle/pedestrian bridge on East side of Main Street

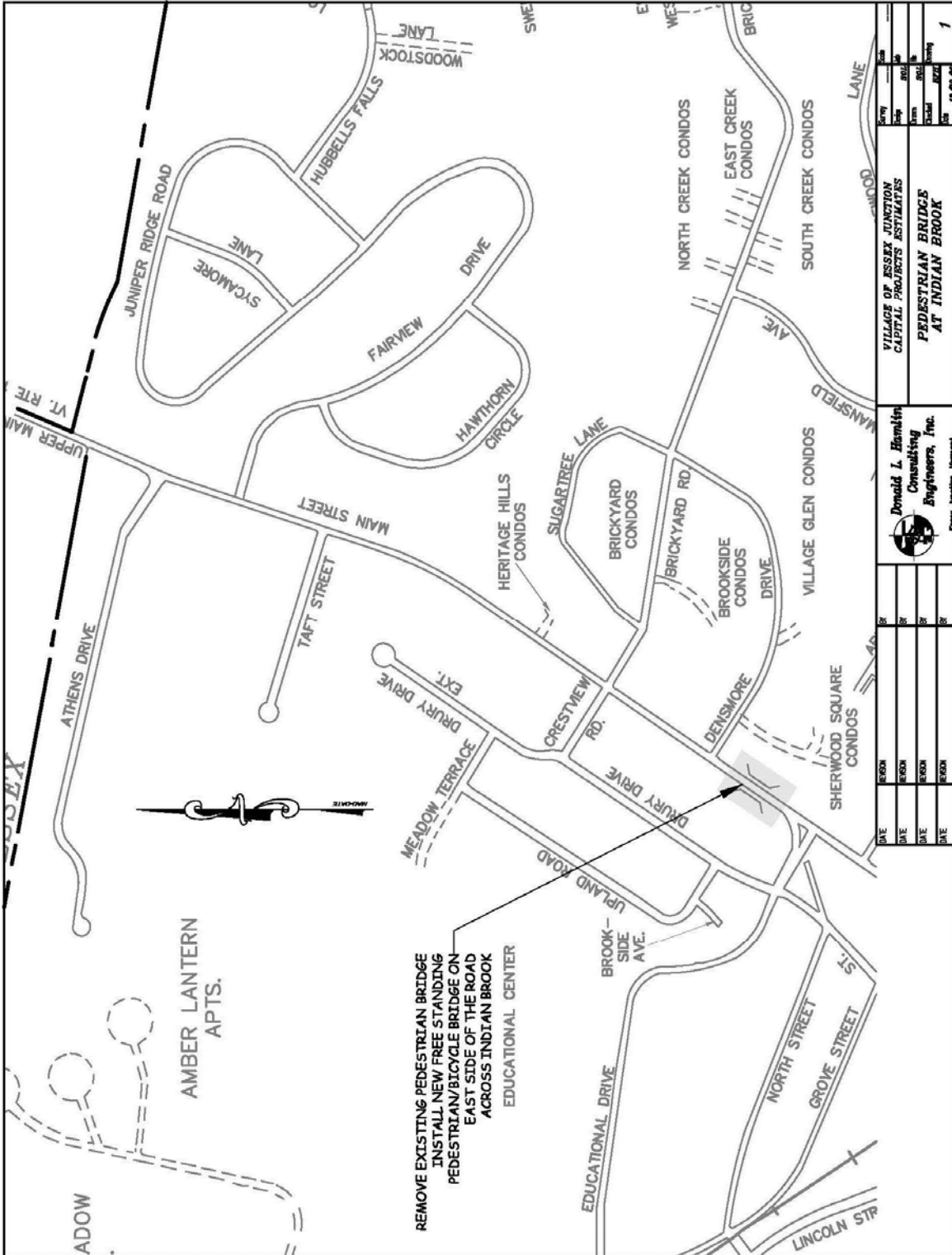
Assumptions:

Existing 5' wide sidewalk will transition to 8' bridge  
New bridge is free standing steel truss bridge  
Existing pedestrian bridge to be removed  
One way traffic maintained on Main Street during construction

O	Pavement Overlay		
R	Roadway Reconstruction		
W	Waterline Improvements		
S	Sanitary Sewer Improvements		
D	Storm Drainage Improvements		
P	Sidewalk Improvements	\$	221,984.94
Combined Total		\$	221,984.94



# Village of Essex Junction Capital Projects Construction Cost Estimate



**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Main Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Install 8' Wide Pedestrian Bridge over Indian Brook on East Side Main Street**

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1) Saw Cut Existing Pavement 4" Thick	125	lf	\$ 3.35	\$ 418.75
2) Remove Existing Concrete Curb	75	lf	\$ 5.58	\$ 418.50
3) Excavation of Pavement 4" to 6" Thick	20	sy	\$ 10.19	\$ 203.80
4) Remove Existing Concrete Sidewalk	40	sy	\$ 13.23	\$ 529.20
5) Remove Existing Pedestrian Bridge	1	ls	\$ 10,000.00	\$ 10,000.00
6) Steel Sheeting	1,200	sf	\$ 23.00	\$ 27,600.00
7) Wailers	2	ton	\$ 530.00	\$ 1,060.00
8) Concrete Footing	12	lf	\$ 117.00	\$ 1,404.00
9) Concrete Walls	12	lf	\$ 285.00	\$ 3,420.00
10) Excavation and Backfill for Abutments	1	ls	\$ 10,000.00	\$ 10,000.00
11) Anchor Bolts	16	each	\$ 1,200.00	\$ 19,200.00
12) Crane Rental	1	day	\$ 2,800.00	\$ 2,800.00
13) Bridge	1	each	\$ 39,600.00	\$ 39,600.00
14) Type I Rip Rap for Slopes	40	cy	\$ 109.33	\$ 4,373.20
15) Concrete for Bridge Deck	5	cy	\$ 250.00	\$ 1,250.00
16) Sand Borrow	30	cy	\$ 26.47	\$ 794.10
17) Dense Graded Crushed Stone	20	cy	\$ 35.96	\$ 719.20
18) Plant Mixed Gravel	20	cy	\$ 35.39	\$ 707.80
19) New Cement Concrete Curb	75	lf	\$ 28.20	\$ 2,115.00
20) New Cement Concrete Sidewalk - 4" Thick	30	sy	\$ 67.90	\$ 2,037.00
21) New Cement Concrete Sidewalk - 6" Thick	10	sy	\$ 92.95	\$ 929.50
22) New Bituminous Concrete Pavement - 4" Thick Over Trench	5	sy	\$ 65.02	\$ 325.10
23) New Bituminous Concrete Driveway and Apron	5	sy	\$ 48.34	\$ 241.70
24) 4" White Line - Painted	125	lf	\$ 1.07	\$ 133.75
25) 4" Yellow Line - Painted	100	lf	\$ 1.07	\$ 107.00
26) Supply and Spread Topsoil	20	cy	\$ 39.89	\$ 797.80
27) Seed, Fertilize, Lime and Matting	150	sy	\$ 2.88	\$ 432.00
28) Changeable Message Boards	30	day	\$ 258.94	\$ 7,768.20

**Village of Essex Junction  
Capital Projects  
Construction Cost Estimate**

**Main Street**

Cost Reference Date: 5/1/2017

Estimate Preparation Date: 5/1/2017

**Install 8' Wide Pedestrian Bridge over Indian Brook on East Side Main Street**

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
29) 12" Wide Crosswalk Bar - Painted	30	lf	\$ 7.48	\$ 224.40
30) Relocate Existing Utility Pole	1	each	\$ 8,372.49	\$ 8,372.49
31) Traffic Control = Type IV	20	day	\$ 1,381.03	\$ 27,620.60
32) Dust Control - Type III	1	ls	\$ 575.43	\$ 575.43
33) Mobilization	---	---	5%	\$ 8,808.93
Contingency	---	---	20%	\$ 36,997.49

Subtotal \$ 221,984.94

Design Engineering Services \$ 22,198.49

Bidding and Construction Services \$ 22,198.49

Grand Total \$ 266,381.92