



Vermont Department of Environmental Conservation

Agency of Natural Resources

WATER INVESTMENT DIVISION
National Life Building, DAVIS 3
1 National Life Drive
Montpelier, VT 05620-3510
FAX: (802) 828-1552

John Choate, Utility Manager

Authorized Representative
City of Winooski
27 West Allen Street
Winooski VT 05404

May 16, 2024

Effective Date: September 7, 2023

Re: Approval of Final Design Plans and Specifications and Eligibility Determination
Main Street Revitalization Project
Vermont/ USEPA Drinking Water Loan Number RF3-443
Vermont/ USEPA Clean Water Loan Number RF1-212

Dear John:

The Water Investment Division performed a technical review of the project design and finds that it meets accepted scientific and engineering standards. The approved plans and contract documents were submitted to our office on September 7, 2023, by VHB of South Burlington, Vermont.

LEGAL AUTHORITY AND APPROVED PROJECT SCOPE

In accordance with requirements of Environmental Protection Rule Chapter 1, the requirements of the Operating Agreement between the Department and the United States Environmental Protection Agency (USEPA) dated June 29, 2022, the Department finds that these plans and contract documents meet all applicable requirements of the Vermont/USEPA revolving loan and grant programs and hereby approves the plans and contract documents for those purposes.

Scope. Replacement of approximately 4,000 linear feet of sewer mains and water mains, and appurtenant water and wastewater service lines, and appurtenant work as part of the larger Main Street Revitalization Project. The project is located on Main Street between the Winooski/Colchester Town line and the bridge over the New England Central Railroad (length approximately 4,000 linear feet).

APPROVED DOCUMENTS

1. Plans titled "Winooski Main Street Revitalization Project" dated 14-Jul-23, and stamped by David Saladino, PE, of Vanasse Hangen Brustlin of South Burlington, VT.
2. Contract Documents and Specifications titled "Winooski Main Street Revitalization Project" dated July, 2023, and stamped by David Saladino, PE, of Vanasse Hangen Brustlin of South Burlington, VT.

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STANDARD CONDITIONS. The following provisions are applicable because the City will apply for a revolving fund loan containing funds from the USEPA:

1. PROCUREMENT

Bidding shall be performed in accordance with the herein approved construction contract documents.

2. NATIONAL ENVIRONMENTAL POLICY ACT

The disturbed area allowed in the project is limited to the physical area reviewed for environmental impacts through the Environmental Review Process. Additionally, project scope shall not be expanded without prior environmental review and approval. In addition to the time required to review the changes, there is a 30-day comment period on the proposed impacts.

3. PROJECT SCOPE

Project cannot be expanded beyond those scope items fully developed in the approved Preliminary Engineering Report.

4. CONTAMINATION

If petroleum hydrocarbon and/or chlorinated solvent contaminated soils are encountered during any phase of construction, buried pipe materials for potable water must be ductile iron pipe with fluorocarbon elastomer gaskets, water service piping must be copper pipe, and all other appurtenances shall be of material resistant to contamination.

5. TESTING

The project shall be tested and inspected in accordance with the approved engineering drawings and specifications named above. Copies of all test results shall be submitted to the loan recipient.

6. CONSTRUCTION SERVICES

The scope of work and level of effort shall be approved by the Construction Engineer assigned to this project at WID. Field inspection of the project shall be performed under the responsible charge of a Vermont licensed professional engineer.

7. OPERATION AND MAINTENANCE MANUAL

~~An Operation and Maintenance Manual must be submitted to the Wastewater Management Program of the Watershed Management Division within 60 days of final completion of this project. The Construction Engineer at WID must be copied on the Transmittal Letter.~~

8. RECORD DRAWINGS

Record drawings shall be prepared by the professional engineering firm responsible for observation of construction and shall depict the system as it was constructed, including any field modifications. Record Drawings shall be dated, contain the engineer's Construction Certification, shall include the professional engineer's seal and signature, and shall be submitted to Design Engineer at WID and loan recipient within 60 days of final field inspection and approval by the responsible professional engineer.

9. REVISIONS

Any revisions (changes, additions, deletions or other modifications) made to the documents reviewed and stamped "Approved" by WID must be addressed by Addendum, Change Order or other WID-approved method. Prior to issuance of the change, WID must review and concur with the change.

Note: Additional conditions and requirements are included in other DEC issued permits and documents.

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PROJECT SPECIFIC CONDITIONS OF APPROVAL

Table of Approval Conditions

	Condition
1	The original Environmental Review approval for this project expired on 9/17/2023. The City requested a reaffirmation of the Environmental Review before the expiration date. No conditions related to the environmental review have changed. New Federal Environmental Review Criteria added to the Environmental Review since the original review do not apply to this project. The new Expiration Date is 9/17/2028. The construction loan must be processed before that date to qualify for CWSRF program funding or the environmental review will need to be amended.
2	The plans and contract documents have been approved by this office. It is requested that the approved set of plans and contract documents be available at the project site at all times.
3	If any leaded drinking water system components, including lead service lines, appurtenances, goosenecks, or pigtails are encountered, exposed, broken, or damaged during construction, the loan recipient shall immediately notify the drinking water system, the Public Drinking Water Program in the DEC Drinking Water and Groundwater Protection Division, and the Water Investment Division Construction Engineer assigned to this project. The notification shall include the address of all properties being served or affected by the leaded components. The location of the leaded components encountered shall be identified on the Record Drawings.
4	For work not defined as minor repair or minor replacement under § 1-201(63)(A) and (B) of the Wastewater System and Potable Water Supply Rules (Rules) and pursuant to § 1-304(11) and (12) of the Rules, the Town shall: 1. provide any landowner of a lot that has a new sanitary sewer service line or a new water service line that is replaced or installed as part of this project a design certification by a designer that states “I hereby certify that, in the exercise of my reasonable professional judgment, the design-related information submitted with this application is true and correct and the design included in this application for a permit complies with the Vermont Wastewater System and Potable Water Supply Rules”; 2. provide any landowner of a lot that has a new sanitary sewer service line or a new water service line that is replaced or installed as part of this project an installation certification by a designer that states “I hereby certify that, in the exercise of my reasonable professional judgment, the installation-related information submitted is true and correct and the wastewater system and potable water supply were installed in accordance with the permitted design and all the permit conditions, were inspected, were properly tested, and have successfully met those performance tests”, or which otherwise satisfies the requirements of §1-311 of the referenced Rules; 3. record all design and installation certifications in the municipal Land Records; 4. submit all design and installation certifications to the Regional Office Program in the DEC Drinking Water and Groundwater Protection Division using ANROnline (https://anronline.vermont.gov/), and 5. notify all affected landowners that the design and installation certifications will be recorded in the municipal Land Records.

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PRELIMINARY ELIGIBILITY DETERMINATIONS

Drinking Water State Revolving Fund:

This eligibility determination for the Vermont/EPA Drinking Water Revolving Loan Fund is based on the finding that the eligible construction cost of \$2,588,344.32 derived from the City’s 2/29/2024 project cost summary identifying eligible items, and received by this office on March 1, 2024 plus contingency is a suitable cost for the purpose of DWSRF Loan of which only \$673,254.49 is anticipated to be requested by the City as DWSRF loan.

Table of Drinking Water Eligible Construction Item Work

Item	Eligibility by Cost
Contract 1	\$673,254.49

Drinking Water Asset Life Determination. The cost-weighted average asset life of the eligible assets involved in the project has an asset life of approximately 64 years. See attached DWSRF Useful Life calculation.

Clean Water State Revolving Fund:

This eligibility determination for the Vermont/EPA Clean Water Revolving Loan Fund is based on the finding that the eligible construction cost of \$7,119,501.24 derived from the City’s 2/29/2024 project cost summary identifying eligible items, and received by this office on March 1, 2024 plus contingency is a suitable cost for the purpose of CWSRF Loan of which only \$997,500 is anticipated to be requested by the City as CWSRF loan.

Table of Eligible Construction Item Work

Item	Eligibility by Cost
Contract 1	\$997,500

Clean Water Asset Life Determination. The cost-weighted average asset life of the assets involved in the project have an asset life of approximately 30 years. See attached PCS.

CWSRF Loan Subsidy. This project may qualify for loan subsidy. Please contact the CWSRF Project Lead for details.

Green Project Reserve. We note that no items are being tracked for Green Project Reserve. While the project does have some Green Stormwater Infrastructure elements, those elements have not been funded by the CWSRF.

Vermont Pollution Control Grant:

The project is eligible to apply for Vermont Pollution Control Grant. The grant percentage (10% eligibility) is determined by the priority point system in the Environmental Protection Rules; Chapter 2 (Municipal Pollution Control Priority System). The Vermont Pollution Control Grant eligibility determination for this project is shown in the table below. Eligible costs include all the current clean water related work.

This is NOT a grant award, this is to establish the amount that is preliminarily eligible in the event that a grant is awarded. The availability of PC Grants is subject to: funds being appropriated, the project’s inclusion on the SFY 24 Priority List for a PC Grant, and project is in the fundable range for a grant.

Table of Preliminary PC Grant Eligibility Calculation

Cost Eligible for PC Grant	Grant Percentage	Eligible PC Grant Amount
\$8,337,273.69	10%	\$833,727.37

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Ineligible Items

The following items have been determined to be ineligible or partially eligible for grant or loan:

	Ineligible Work or Item	Current Ineligible Cost
1	Engineering Costs not fundable under the Engineering Fee Policy.	\$0
2	Pavement, sidewalk, and curbing costs outside those allowed in the Pavement Policy.	\$0
3	Landscaping element costs outside the Landscaping Elements Policy.	\$0
4	Any spare parts that are called for by the specifications must be parts that the manufacturer of the equipment states (in the operations and maintenance manual) must be replaced within the first year of operation of the equipment and must be available on site to maintain reliability of the equipment. No other spare parts will be considered eligible for the grant or loan. The Department reserves the right to determine eligibility of any spare parts that are procured under the Contract.	\$0
5	Ineligible items are too numerous to list, however, WID concurs with the eligibility breakdowns as provided by the City, attached to this letter.	N/A

Exceedances

If, at any point during further development of the project, the estimated or actual construction cost should exceed the Engineer's most recent estimate as specified above by more than ten percent, increased by the necessary amount of inflation, this office will reevaluate this eligibility determination to determine if the project will meet the requirements of the Vermont/USEPA Revolving Loan and Vermont Pollution Control Grant Program.

Change Orders

Generally, change orders that exceed the original contract value by more than 20% are not allowed.

Loan and Grant Summary

This project is currently eligible for a CWSRF loan amount of \$ 1,524,311.40 and a DWSRF loan amount of \$924,036.17 based on availability of other funding. This project is eligible for a PC Grant amount of \$833,727.37. Grant, loan, and subsidy amounts are subject to change based on final audited costs. See the attached project cost summary (PCS) for additional details.

Please call Lynnette Claudon, PE at **802-490-6226** if you have any questions regarding this **Final Design Approval and Eligibility Determination**.

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NEXT STEP

Please contact your assigned WID Construction Engineer for a list of requirements. Any changes to the plans, contract documents, and specifications stamped "Approved" will need to be reviewed and concurred with as part of the authorization to bid. Failure to do so may result in reduced SRF loan eligibility or loan termination.

We look forward to the successful completion of this project.

Sincerely,

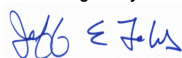
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Lynnette W. Claudon, PE
Senior Water Infrastructure Program Engineer
Water Investment Division

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Jeff Fehrs, PE, Supervisor
Design and Construction Engineering Section
Water Investment Division

DocuSigned by:



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Eric Blatt, PE, Director of Engineering
Water Investment Division

Attachment:

WID Project Cost Summary (PCS)
Winooski Eligibilities 2/29/2024
DWSRF Useful Life Calculation

cc: **Nathan Shaffer**, Construction Engineer, VT-DEC, Water Investment Division
Tom Brown, CWSRF Lead, VT-DEC, Water Investment Division
Amy Galford, DWSRF Lead, VT-DEC, Water Investment Division
Willie Nickerson, PE, Engineering Section Supervisor, VT-DEC DWGPD
Kevin Burke, VT-DEC Watershed Management Division
Amy Polaczyk & Aaron Krymkowski, VT-DEC, Watershed Management Division
Bruce Douglas & Alison Lowry, VT-DEC, Groundwater Protection Division
Jonathan Harries, P.E., USDA Rural Development
David Saladino, P.E., VHB

Construction Costs (Kubricky-Jointa Lime, LLC Bid)		QUANTITY		UNIT	UNIT PRICE		FUND ELIGIBILITY			WATER FUND		WASTEWATER FUND		GENERAL FUND		TOTAL		
ITEM NUMBER	ITEM DESCRIPTION	BASE BID	ADD-ALT 1		BASE BID	ADD-ALT 1	% Water	% Wastewater	% General	QUANTITY	TOTAL PRICE	QUANTITY	TOTAL PRICE	QUANTITY	TOTAL PRICE	QUANTITY	PRICE	
201.10	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND	1		LS	\$ 50,000.00				100%	0	\$ -	0	\$ -	1	\$ 50,000.00	1	\$ 50,000.00	
201.15	REMOVING MEDIUM TREES	14		EACH	\$ 1,400.00				100%	0	\$ -	0	\$ -	14	\$ 19,600.00	14	\$ 19,600.00	
201.20	REMOVING MEDIUM STUMPS	1		EACH	\$ 3,900.00				100%	0	\$ -	0	\$ -	1	\$ 3,900.00	1	\$ 3,900.00	
203.15	COMMON EXCAVATION	26310		CY	\$ 36.00		10%	30%	60%	26310	\$ 94,716.00	15786	\$ 284,148.00	0	\$ 568,296.00	26310	\$ 947,160.00	
203.16	SOLID ROCK EXCAVATION	350		CY	\$ 32.00			100%	100%	0	\$ -	350	\$ 11,200.00	0	\$ -	350	\$ 11,200.00	
203.30	EARTH BORROW	50		CY	\$ 98.50				100%	0	\$ -	0	\$ -	50	\$ 4,925.00	50	\$ 4,925.00	
204.20	TRENCH EXCAVATION OF EARTH	1570		CY	\$ 99.00			100%	100%	0	\$ -	1570	\$ 155,430.00	0	\$ -	1570	\$ 155,430.00	
204.21	TRENCH EXCAVATION OF ROCK	77		CY	\$ 74.00				100%	0	\$ -	77	\$ 5,698.00	0	\$ -	77	\$ 5,698.00	
204.22	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	1		CY	\$ 75.00				100%	0	\$ -	0	\$ -	1	\$ 75.00		\$ 75.00	
204.30	GRANULAR BACKFILL FOR STRUCTURES	450		CY	\$ 24.00				100%	0	\$ -	450	\$ 10,800.00	0	\$ -	450	\$ 10,800.00	
210.10	COARSE-MILLING, BITUMINOUS PAVEMENT	2925	750	SY	\$ 11.00	\$ 11.00			100%	0	\$ -	0	\$ -	2925	750	\$ 40,425.00	3675	\$ 40,425.00
301.26	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	6880	30	CY	\$ 55.50	\$ 61.50	10%	30%	60%	688	\$ 38,368.50	2064	\$ 115,105.50	4128	\$ 230,211.00	6910	\$ 383,685.00	
301.35	SUBBASE OF DENSE GRADED CRUSHED STONE	9665	120	CY	\$ 33.50	\$ 24.50	10%	30%	60%	966.5	\$ 32,671.75	2889.5	\$ 98,015.25	5799	\$ 196,030.50	9785	\$ 326,717.50	
401.10	AGGREGATE SURFACE COURSE	10		CY	\$ 465.00				100%	0	\$ -	0	\$ -	10	\$ 4,650.00	10	\$ 4,650.00	
404.65	EMULSIFIED ASPHALT	308	7	CWT	\$ 55.50	\$ 55.50		50%	50%	0	\$ -	154	\$ 8,741.25	154	\$ 8,741.25	315	\$ 17,482.50	
406.35	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	8920	285	TON	\$ 120.00	\$ 120.00		50%	50%	0	\$ -	4460	\$ 552,300.00	4460	\$ 552,300.00	9205	\$ 1,104,600.00	
406.38	HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES	1950		SY	\$ 44.50				100%	0	\$ -	0	\$ -	1950	\$ 86,775.00	1950	\$ 86,775.00	
409.5	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	1		LU	\$ 1.00				100%	0	\$ -	0	\$ -	1	\$ 1.00		\$ 1.00	
541.25	CONCRETE, CLASS B	430		CY	\$ 255.00			50%	50%	0	\$ -	215	\$ 54,825.00	215	\$ 54,825.00	430	\$ 109,650.00	
541.45	CONTROLLED DENSITY (FLOWABLE) FILL	50		CY	\$ 260.00				100%	0	\$ -	50	\$ 13,000.00	0	\$ -	50	\$ 13,000.00	
604.18.04	PRECAST REINFORCED CONCRETE DROP INLET WITH CAST IR	37		EACH	\$ 4,650.00				100%	0	\$ -	37	\$ 172,050.00	0	\$ -	37	\$ 172,050.00	
604.18.05	PRECAST REINFORCED CONCRETE DROP INLET WITH CAST IR	13		EACH	\$ 8,850.00				100%	0	\$ -	13	\$ 115,050.00	0	\$ -	13	\$ 115,050.00	
604.18.06	PRECAST REINFORCED CONCRETE DROP INLET WITH CAST IR	8		EACH	\$ 7,500.00				100%	0	\$ -	8	\$ 60,000.00	0	\$ -	8	\$ 60,000.00	
604.18.08	PRECAST REINFORCED CONCRETE DROP INLET WITH CAST IR	4		EACH	\$ 10,400.00				100%	0	\$ -	4	\$ 41,600.00	0	\$ -	4	\$ 41,600.00	
604.20	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST I	4		EACH	\$ 4,300.00				100%	0	\$ -	4	\$ 17,200.00	0	\$ -	4	\$ 17,200.00	
604.21.04	PRECAST REINFORCED CONCRETE MANHOLE WITH CAST IRON	4		EACH	\$ 5,700.00				100%	0	\$ -	0	\$ -	0	\$ -	1	\$ 22,800.00	
604.21.05	PRECAST REINFORCED CONCRETE MANHOLE WITH CAST IRON	1		EACH	\$ 5,700.00				100%	0	\$ -	1	\$ 5,700.00	0	\$ -	1	\$ 5,700.00	
604.21.06	PRECAST REINFORCED CONCRETE MANHOLE WITH CAST IRON	2		EACH	\$ 7,200.00				100%	0	\$ -	2	\$ 14,400.00	0	\$ -	2	\$ 14,400.00	
604.21.08	PRECAST REINFORCED CONCRETE MANHOLE WITH CAST IRON	2		EACH	\$ 9,850.00				100%	0	\$ -	2	\$ 19,700.00	0	\$ -	2	\$ 19,700.00	
604.412	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	8		EACH	\$ 1,350.00				100%	0	\$ -	8	\$ 10,800.00	0	\$ -	8	\$ 10,800.00	
604.415	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	8		EACH	\$ 2,600.00				100%	0	\$ -	8	\$ 20,800.00	0	\$ -	8	\$ 20,800.00	
604.418	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	2		EACH	\$ 6,000.00				100%	0	\$ -	2	\$ 12,000.00	0	\$ -	2	\$ 12,000.00	
609.10	DUST CONTROL WITH WATER	1300		MGAL	\$ 95.00			50%	50%	0	\$ -	650	\$ 62,400.00	650	\$ 62,400.00	1300	\$ 124,800.00	
616.21	VERTICAL GRANULAR CURB	8954		LF	\$ 61.50			50%	50%	0	\$ -	4477	\$ 273,335.50	4477	\$ 273,335.50	8954	\$ 546,671.00	
616.28	CAST-IN-PLACE CONCRETE CURB, TYPE B	340		LF	\$ 73.50			50%	50%	0	\$ -	170	\$ 12,495.00	170	\$ 12,495.00	340	\$ 24,990.00	
617.10	REMOVE AND RESET MAILBOX, SINGLE SUPPORT	3		EACH	\$ 150.00				100%	0	\$ -	0	\$ -	3	\$ 450.00	3	\$ 450.00	
618.10	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	4600	15	SY	\$ 130.00	\$ 190.00			100%	0	\$ -	0	\$ -	4600	\$ 600,850.00	4615	\$ 600,850.00	
618.11	PORTLAND CEMENT CONCRETE SIDEWALK, 6 INCH	1250		SY	\$ 165.00				100%	0	\$ -	0	\$ -	1250	\$ 206,250.00	1250	\$ 206,250.00	
618.30	DETECTABLE WARNING SURFACE	650		SF	\$ 41.50				100%	0	\$ -	0	\$ -	650	\$ 26,975.00	650	\$ 26,975.00	
619.14	BOLLARDS	24		EACH	\$ 2,300.00				100%	0	\$ -	0	\$ -	24	\$ 55,200.00	24	\$ 55,200.00	
620.50	REMOVING AND RESETTING FENCE	460		LF	\$ 12.00				100%	0	\$ -	0	\$ -	460	\$ 5,520.00	460	\$ 5,520.00	
620.55	REMOVAL OF EXISTING FENCE	30		LF	\$ 13.50				100%	0	\$ -	0	\$ -	30	\$ 405.00	30	\$ 405.00	
622.10	INSULATION BOARD (4" THICK)	5		MFBM	\$ 1,350.00		100%			5	\$ 6,750.00	0	\$ -	0	\$ -	5	\$ 6,750.00	
623.30	REMOVE HYDRANT	7		EACH	\$ 1,150.00		100%			7	\$ 8,050.00	0	\$ -	0	\$ -	7	\$ 8,050.00	
630.10	UNIFORMED TRAFFIC OFFICERS	1800		HR	\$ 83.50			50%	50%	0	\$ -	900	\$ 75,150.00	900	\$ 75,150.00	1800	\$ 150,300.00	
630.15	FLAGGERS	1200		HR	\$ 50.00			50%	50%	0	\$ -	600	\$ 300,000.00	600	\$ 300,000.00	1200	\$ 600,000.00	
635.11	MOBILIZATION/DEMOLITION	1		LS	\$ 2,000.000.00		10%	50%	40%	0.1	\$ 200,000.00	0.5	\$ 1,000,000.00	0.4	\$ 800,000.00	1	\$ 2,000,000.00	
641.11	TRAFFIC CONTROL, ALL-INCLUSIVE	1	1	LS	\$ 862,985.75	\$ 14,800.00	10%	50%	40%	0.1	\$ 87,778.58	0.5	\$ 438,892.88	0.4	\$ 351,114.32	2	\$ 877,785.75	
641.15	PORTABLE CHANGEABLE MESSAGE SIGN	6		EACH	\$ 16,200.00				100%	0	\$ -	3	\$ 48,600.00	3	\$ 48,600.00	6	\$ 97,200.00	
646.201	4 INCH WHITE LINE, WATERBORNE PAINT	12200		LF	\$ 0.42				100%	0	\$ -	0	\$ -	12200	\$ 5,124.00	12200	\$ 5,124.00	
646.2111	4 INCH YELLOW LINE, WATERBORNE PAINT	8850		LF	\$ 0.42				100%	0	\$ -	0	\$ -	8850	\$ 3,717.00	8850	\$ 3,717.00	
646.231	8 INCH YELLOW LINE, WATERBORNE PAINT	340		LF	\$ 3.60				100%	0	\$ -	0	\$ -	340	\$ 1,224.00	340	\$ 1,224.00	
646.241	12 INCH WHITE LINE, WATERBORNE PAINT	25		LF	\$ 4.75				100%	0	\$ -	0	\$ -	25	\$ 118.75	25	\$ 118.75	
646.261	24 INCH STOP BAR, WATERBORNE PAINT	130		LF	\$ 9.50				100%	0	\$ -	0	\$ -	130	\$ 1,245.50	130	\$ 1,245.50	
646.301	LETTER OR SYMBOL, WATERBORNE PAINT	154		EACH	\$ 89.50				100%	0	\$ -	0	\$ -	154	\$ 13,783.00	154	\$ 13,783.00	
646.311	CROSSWALK MARKING, WATERBORNE PAINT	460		LF	\$ 15.50				100%	0	\$ -	0	\$ -	460	\$ 7,090.00	460	\$ 7,090.00	
646.480	DURABLE 24 INCH STOP BAR, RECESSED POLYUREA	200		LF	\$ 89.50				100%	0	\$ -	0	\$ -	200	\$ 17,900.00	200	\$ 17,900.00	
646.496	DURABLE LETTER OR SYMBOL, RECESSED POLYUREA	34		EACH	\$ 595.00				100%	0	\$ -	0	\$ -	34	\$ 20,230.00	34	\$ 20,230.00	
646.506	DURABLE CROSSWALK MARKING, RECESSED POLYUREA	270		LF	\$ 150.00				100%	0	\$ -	0	\$ -	270	\$ 40,500.00	270	\$ 40,500.00	
646.76	LINE STRIPING TARGETS	1600		EACH	\$ 0.85				100%	0	\$ -	0	\$ -	1600	\$ 1,360.00	1600	\$ 1,360.00	
651.15	SEED	60		LB	\$ 11.50				100%	0	\$ -	0	\$ -	60	\$ 690.00	60	\$ 690.00	
651.18	FERTILIZER	1		TON	\$ 1,184.50				100%	0	\$ -	0	\$ -	1	\$ 1,184.50	1	\$ 1,184.50	
651.20	AGRICULTURAL LIMESTONE	1		TON	\$ 860.00				100%	0	\$ -	0	\$ -	1	\$ 860.00	1	\$ 860.00	
651.35	TOPSOIL	250		CY	\$ 130.00				100%	0	\$ -	0	\$ -	250	\$ 32,500.00	250	\$ 32,500.00	
651.50	HAY MULCH	1		TON	\$ 860.00				100%	0	\$ -	0	\$ -	1	\$ 860.00	1	\$ 860.00	
653.41	INLET PROTECTION DEVICE, TYPE II	55		EACH	\$ 220.00		100%			55	\$ 12,100.00	0	\$ -	0	\$ -	55	\$ 12,100.00	
656.30.01	DECIDUOUS TREES (ACER X FREEMANI 'SIENNA')	44		EACH	\$ 645.00				100%	0	\$ -	0	\$ -	44	\$ 28,380.00	44	\$ 28,380.00	
656.30.02	DECIDUOUS TREES (GLEDISIA TRIACANTHOS INERMIS SHADE	45		EACH	\$ 673.00				100%	0	\$ -	0	\$ -	45	\$ 30,375.00	45	\$ 30,375.00	
656.30.03	DECIDUOUS TREES (ITALIA CORDATA 'GREENSPRUE')	40		EACH	\$ 645.00				100%	0	\$ -	0	\$ -	40	\$ 25,800.00	40	\$ 25,800.00	
656.30.04	DECIDUOUS TREES (GINKO BILOBA 'PRINCETON SENTRY')	3		EACH	\$ 890.00				100%	0	\$ -	0	\$ -	3	\$ 2,670.00	3	\$ 2,670.00	
656.41.01	PERENNIALS (CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER')	1		EACH	\$ 56.50				100%	0	\$ -	0	\$ -	0	\$ -	0	\$ -	
656.41.02	PERENNIALS (PANICUM VIRGATUM 'SHENANDOAH')	1		EACH	\$ 56.50				100%	0	\$ -	0	\$ -	0	\$ -	0	\$ -	
656.52	TRANSPLANTING AND COVER	25		SY	\$ 110.00				100%	0	\$ -	0	\$ -	0	\$ -	0	\$ -	
656.80	LANDSCAPE BACKFILL, TRUCK MEASUREMENT	1150		CY	\$ 82.50				100%	0	\$ -	0	\$ -	1150	\$ 94,875.00	1150	\$ 94,875.00	
675.20	TRAFFIC SIGN, TYPE A	700		SF	\$ 40.00				100%	0	\$ -	0	\$ -	700	\$ 28,000.00	700	\$ 28,000.00	
675.341	SQUARE TUBE SIGN POST AND ANCHOR	1035		LF	\$ 31.00				100%	0	\$ -	0	\$ -	1035	\$ 32,085.00	1035	\$ 32,085.00	
675.50	REMOVING SIGNS	163		EACH	\$ 13.50				100%	0	\$ -	0	\$ -	163	\$ 2,200.50	163	\$ 2,200.50	
675.60	RESETTING SIGNS	8		EACH	\$ 50.00				100%	0	\$ -	0	\$ -	8	\$ 400.00	8	\$ 400.00	
678.15	TRAFFIC CONTROL,																	

Useful Life Calculation

Water System Name: City of Winooski, Vermont

WSID 5102

PTC(s) #: C-3992-21.0

DWSRF loan #: RF3-443

Category I - Transmission & Distribution Pipes			
Asset	Cost Estimate (dollars)	x Asset Useful Life	= Extension
Ductile Iron Pipe	\$1,272,275.00	75	95,420,625.00
Copper Pipe	\$24,130.00	75	1,809,750.00
			0.00
Category II - Wells and Springs			
Asset	Cost Estimate (dollars)	x Asset Useful Life	= Extension
			0.00
Category III - Buildings, Tanks, and Other Structures			
Asset	Cost Estimate (dollars)	x Asset Useful Life	= Extension
			0.00
Category IV - Process Equipment, Pumps & Meters			
Asset	Cost Estimate (dollars)	x Asset Useful Life	= Extension
			0.00
Category V - Auxiliary Equipment			
Asset	Cost Estimate (dollars)	x Asset Useful Life	= Extension
			0.00
Category VI - Valves & Hydrants			
Asset	Cost Estimate (dollars)	x Asset Useful Life	= Extension
Hydrants and Assemblies	\$87,300.00	50	4,365,000.00
Pressure Reducing Valve	\$28,900.00	40	1,156,000.00
Gate Valves	\$203,700.00	40	8,148,000.00
Tapping Saddles with Gate Valves	\$40,200.00	40	1,608,000.00
Corporation Stops	\$221,000.00	40	8,840,000.00
Curb Stop Valves	\$53,750.00	40	2,150,000.00
			0.00
Category VII - Reservoirs, Landscaping & Grading			
Asset	Cost Estimate (dollars)	x Asset Useful Life	= Extension
			0.00
Totals	\$1,931,255.00	63.95	123,497,375.00