2021-2022 Projects Budget Requests 11/18/2020

Projects

Highway	21-22	22-23	23-24	24-25	25-26	26-27
1) Rt 132 reclaim, pave 1 mile Twin State Sand & Gravel budget estimate	$243,000					
2) Beaver Meadow Road - Reclaim, Pave Includes sidewalk, curb, drainage issues Main st. to Brigham Hill Rd 4000' engineering phase T Mgr scheduled 22-23		$100,000				
3) Beaver Meadow Road - Reclaim, Pave Includes sidewalk, curb, drainage issues Main st. to Brigham Hill Rd 4000' construction phase T Mgr scheduled 22-23 Twin State estimate			$431,500			
4) Beaver Meadow Road - Shim & Overlay from Brigham Hill Road 2.5 miles				$317,000		
5) Beaver Meadow Road - Shim & Overlay from previous end to Sharon townline					$248,000	
6) Pave steep hills currently gravel Tucker Hill Rd, Tilden Hill Rd, Blood Hill East Bragg - beginning, Dutton east, Bowen Rd,						$250,000
Sub Total	**$243,000**	**$100,000**	**$431,500**	**$317,000**	**$248,000**	**$250,000**

Bridges	21-22	22-23	23-24	24-25	25-26	26-27
7) Bridge Inventory of all bridges/culverts >5' RFQ cost for engineering - Stantec budget estimate	$57,000					
8) Tigertown Box Culvert	$487,643					
9) Rt 132 Bridge - construction Stantec estimate - concrete box culvert Vtrans Structures Grant Application	$300,000					
10) Chapel Hill South Bridge - abutment repair		$36,000				
11) Elm St. Bridge - design			$100,000			
12) Elm St. Bridge - construction				$500,000		
13) Beaver Meadow Road Bridge No. 39 - design					$150,000	
14) Beaver Meadow Road Bridge No. 39-construction						$700,000
Sub Total	**$844,643**	**$36,000**	**$100,000**	**$500,000**	**$150,000**	**$700,000**

Buildings & Grounds	21-22	22-23	23-24	24-25	25-26	26-27
15) Tracy Hall generator replacement	$49,095					
16) Public Works Dept generator replacement utilizing old PBS generator	$7,671					
17) Tracy Hall underground fuel storage tank replacement		$60,000				
18) Tracy Hall boiler replacement (L. Wiggins Estimate)		$15,000				
19) Public Works Garage - create aggregate storage bins 108 concrete blocks	$5,000					
20) Public Works Garage - break room appurtenances	$5,000					
Transfer Station						
21) Transfer Station building	$13,000					
Sub Total	**$79,766**	**$75,000**	**$0**	**$0**	**$0**	**$0**
Total	**$1,167,409**	**$211,000**	**$531,500**	**$817,000**	**$398,000**	**$950,000**

Detailed Capital Budget Request Form

1. Project Details

Project Name CBR #1-- Rt. 132 Road Rehabilitation Life (years) 20

Project Originator L. Wiggins Phone

Department Public Works - Highway

Desired project timing 2021 - 2022 Completion Date 2021

2. Project Description/Justification

Rehabilitation approximately 1 mile of RT 132 between Union Village and Bowen Road.

3. Project Cost Estimate

(Reference Blaktop 10/09/2020 Estimate)

Total cost = $243,000

BLAKTOP, INC
P.O. Box 5243, West Lebanon, NH 03784
603-298-8885
Fax 298-6120
www.blaktop.com
Member, NATIONAL ASPHALT PAVEMENT ASSN

BLAKTOP INC
WE PAVE THE WAY
WEST LEBANON, NH · 603-298-8885
LITTLETON, NH · 603-444-8882

BUDGETARY PROPOSAL

Proposal submitted to:
Town of Norwich
PO Box 376
Norwich, VT 05055

Date: 10/9/2020

Job Name: Route 132 Road Reconstruction
Job Location: Norwich, Vermont
Phone: (802) 649-2209
Attn: Larry Wiggins
e-mail: lwiggins@norwich.vt.us

We hereby submit specifications and estimates for:

Project: Reconstruction of 1 mile segment, Route 132 in Norwich, Vermont

This budgetary proposal provides preliminary figures for the reconstruction of a 1 mile segment of Route 132 in Norwich, Vermont. This proposal includes reclaiming, with a sheepsfoot roller, calcium chloride application, shouldering and asphalt road paving at 22' width, as outlined below; requisite elements pertinent to performance of this scope are included, including traffic control, grading and mobilization; total area for this budgetary proposal is 12,907 square yards (116,160 square feet)

Blaktop scope of work:

- **Reclaim 1 mile segment of Route 132 & Grade** **$3.89/SY** **$50,303.40**
  - Mobilize equipment and reclaim 1 mile of Route 132
  - Remix with CaCl2, rate of 1 gallon per sq. yd.
  - Compact with sheepsfoot roller
  - Rough grade to form road profile using existing reclaimed subbase material
  - Fine grade (+/- 1") and compact existing subbase material

- **Shouldering 1 mile segment of Route 132** **$32.67/Ton** **$7,187.45**
  - Mobilize shouldering equipment and laborer crew to work area
  - Supply ¾" twinpack gravel to laydown machine
  - Place and compact 2' shoulders on each side of 1 mile segment
  - Sweep loose material from edges of road

- **Asphalt Paving, 3 ½" compacted thickness** **$72.25/Ton** **$185,339.64**
  - Mobilize paving crew & equipment to work area

Asphalt cement escalation/de-escalation:
Paving prices contained in this proposal will be adjusted, if necessary, in relation to changes in asphalt cement costs at the time the paving is done. The paving prices contained in this proposal are based on the current month Agency of Transportation Monthly Average Posted Price for Asphalt Cement.

Prices, if accepted, are valid for 2020 paving season

Terms: Full payment due within 30 days of invoice.

Submitted by: Bryan Sicard

Acceptance of Proposal:
The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work specified. Payment will be made as outlined in the terms above. This proposal becomes invalid and may be withdrawn if not accepted within 30 days.

Date of Acceptance: _____ Signature _____ Title _____

BLAKTOP, INC
P.O. Box 5243, West Lebanon, NH 03784
603-298-8885
Fax 298-6120
www.blaktop.com
Member, NATIONAL ASPHALT PAVEMENT ASSN

BLAKTOP INC
WE PAVE THE WAY
WEST LEBANON, NH · 603-298-8885
LITTLETON, NH · 603-444-8882

BUDGETARY PROPOSAL

Proposal submitted to:
Town of Norwich
PO Box 376
Norwich, VT 05055

Date: 10/9/2020

Job Name: Route 132 Road Reconstruction
Job Location: Norwich, Vermont
Phone: (802) 649-2209
Attn: Larry Wiggins
e-mail: lwiggins@norwich.vt.us

- Pave a 2.5" binder course of ¾" hot mix asphalt, 22' width
- Apply asphalt emulsion (tack) prior to top course paving
- Pave a 1" top course of 3/8" hot mix asphalt, 22' width

Total Price: $242,830.49

Asphalt cement escalation/de-escalation:
Paving prices contained in this proposal will be adjusted, if necessary, in relation to changes in asphalt cement costs at the time the paving is done. The paving prices contained in this proposal are based on the current month Agency of Transportation Monthly Average Posted Price for Asphalt Cement.

Prices, if accepted, are valid for 2020 paving season

Terms: Full payment due within 30 days of invoice.

Submitted by: Bryan Sicard

Acceptance of Proposal:
The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work specified. Payment will be made as outlined in the terms above. This proposal becomes invalid and may be withdrawn if not accepted within 30 days.

Date of Acceptance: _____ Signature _____ Title _____

Detailed Capital Budget Request Form

1. Project Details

Project Name CBR #2--Beaver Meadow Road Paving, Sidewalk, Drainage Engineering

Life (years) 20

Project Originator H. Durfee / L. Wiggins Phone

Department Public Works - Highway

Desired project timing 2022 - 2023 Completion Date 2022

2. Project Description/Justification

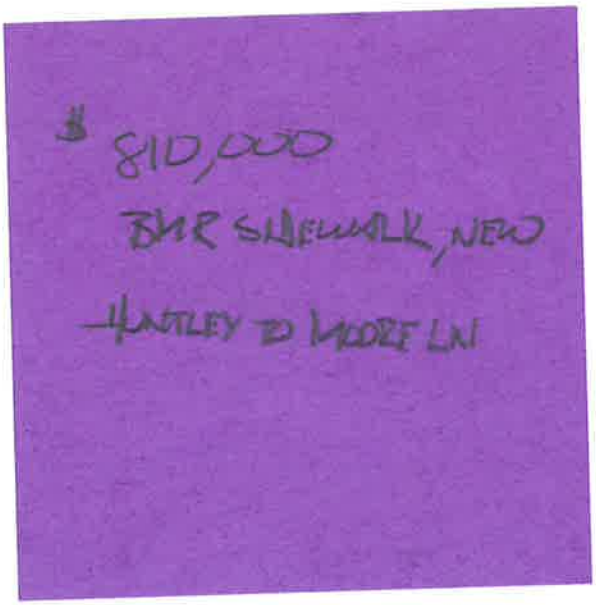
Engineering, grant application / administration of Beaver Meadow Road from Main St. to Brigham Hill Road for road and side walk reconstruction drainage improvement.

Approximately 4000'

New sidewalk to be designed and located as determined by the Beaver Meadow Scoping Study.

3. Project Cost Estimate

Approximate cost is $100,000. (LAW estimate) Final estimated cost to be provided by conceptual planning of 2019 VTRANS Pedestrian and Bicycle Grant



Beaver Meadow Road Sketch Alternatives

Draft Review

October 2020

DRAFT

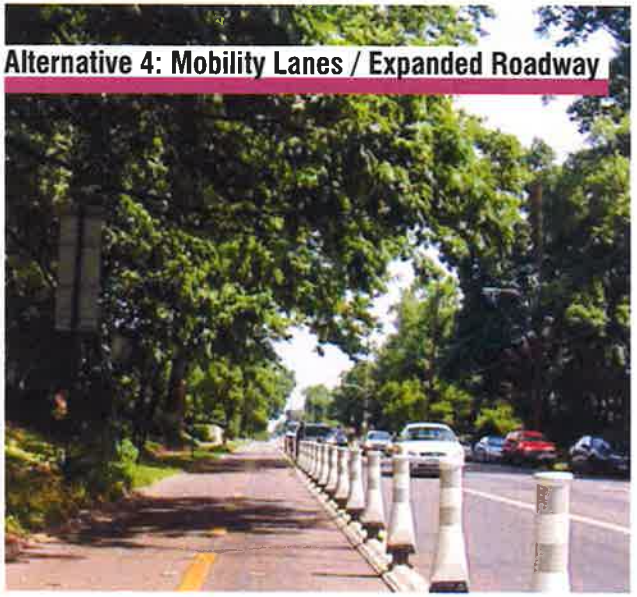
These slides are intended to provide a cursory overview of the Beaver Meadow Road Sidewalk Scoping Study alternatives. These alternatives are conceptual in nature, and do not represent final design direction. They are presented here to allow for public discourse and weighing of benefits and drawbacks of each.

PLEASE NOTE: CONCECEPT COSTS REPRESENT AN OPINION OF PROBABLE CONSTRUCTION COST, AND ARE FOR PLANNING PURPOSES ONLY. THEY ARE SUBJECT TO CHANGE.
After you've reviewed these alternatives, please vote for your preferred alternative at

http://tinyurl.com/beavermeadowsidewalk

DRAFT

DuBois & King

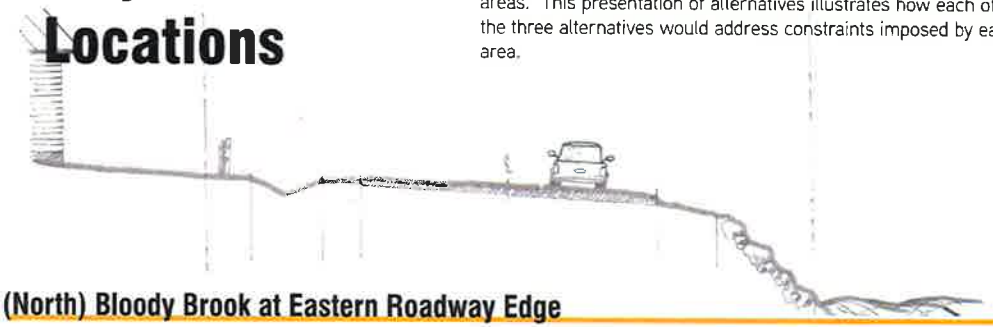


ALTERNATIVE CONCEPTS

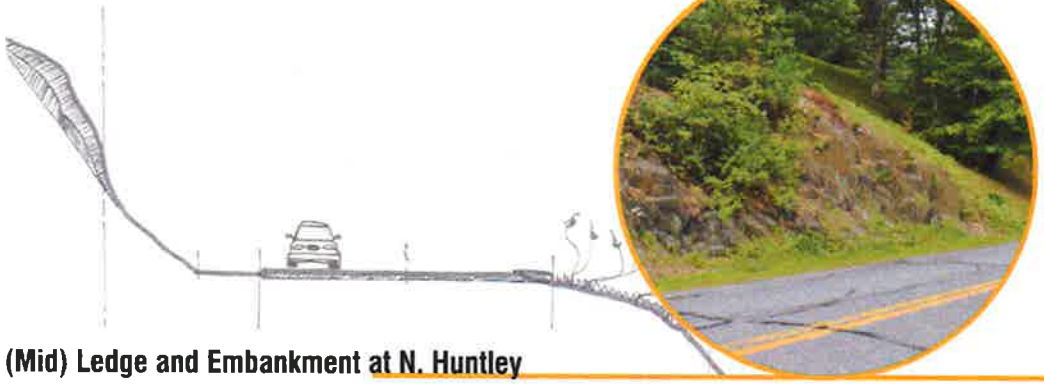
DuBois & King

Major Constraint Locations

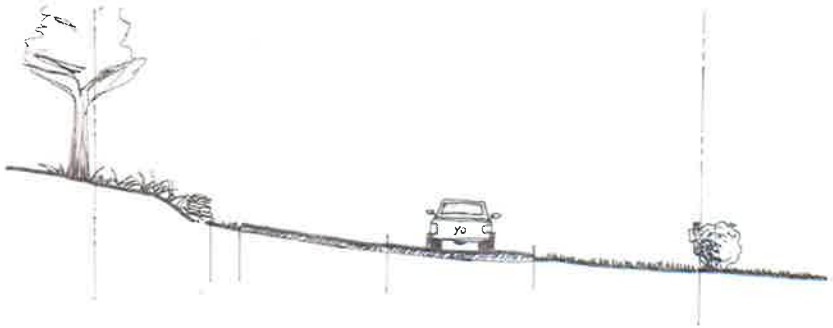
Existing Conditions analysis along the roadway shows a reasonably consistent corridor, but with three major constraint areas. This presentation of alternatives illustrates how each of the three alternatives would address constraints imposed by each area.



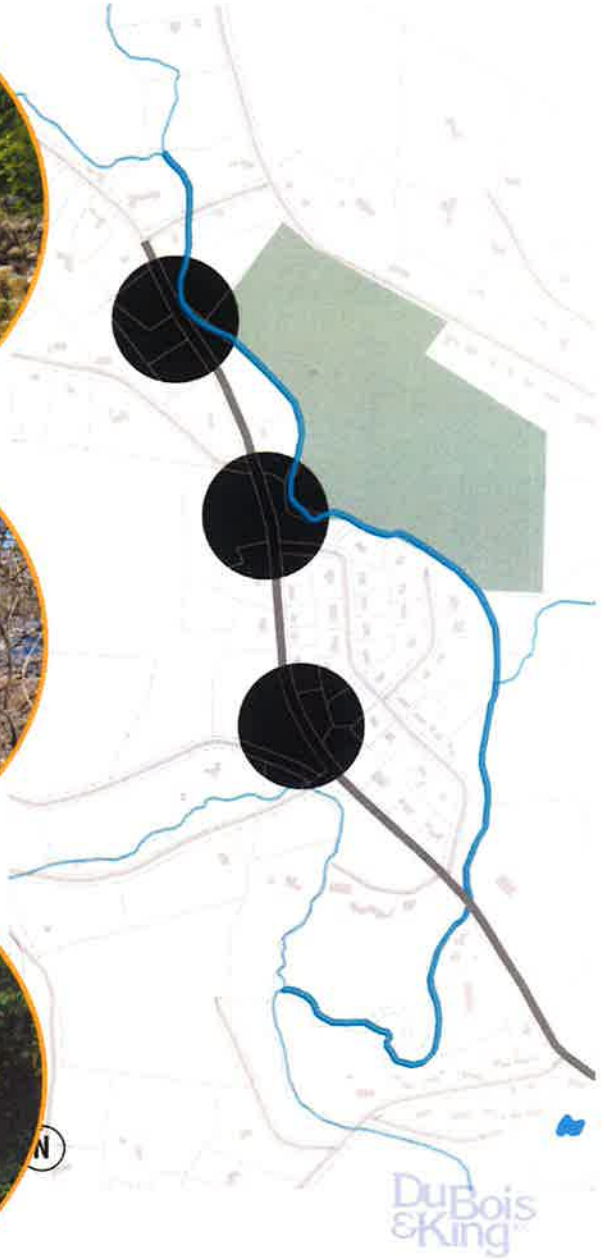
(North) Bloody Brook at Eastern Roadway Edge



(Mid) Ledge and Embankment at N. Huntley



(South) Rock wall & Trees north of Bragg Hill



Alternative 1: SW West

A sidewalk project on the west side of Beaver Meadow Road would require a crossing at the southern end of the roadway to connect with existing sidewalk infrastructure.

Requirements:

Relocation of overhead utilities throughout corridor
Minor crossings at Bragg Hill Road intersection

Benefits:

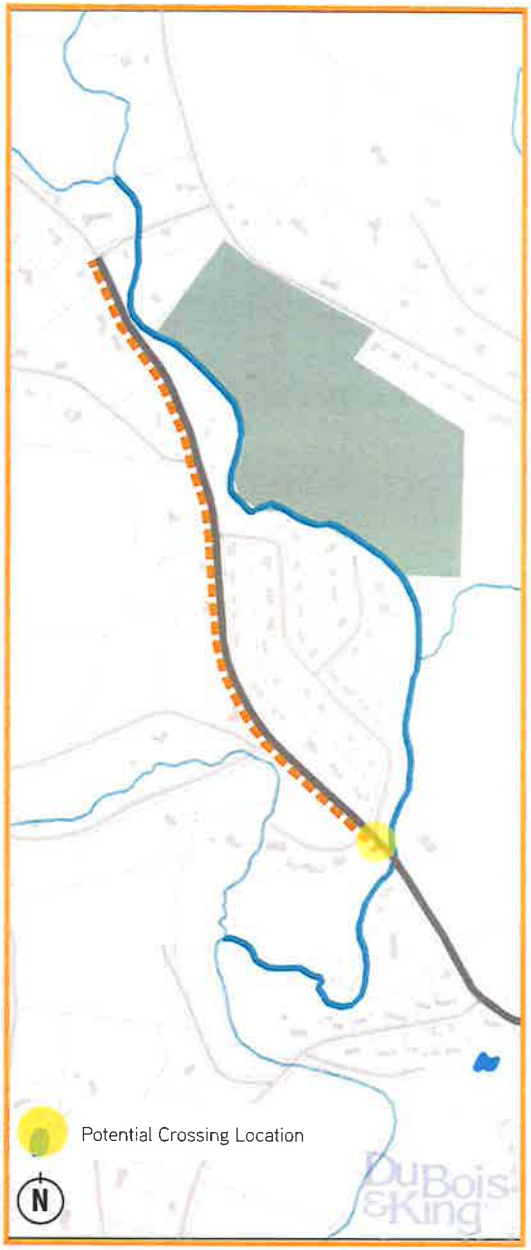
Direct access to Norwich pizza oven
Avoids Bloody Brook adjacencies and potential complications

Drawbacks:

Crossings at southern and northern end required to access existing sidewalk network.

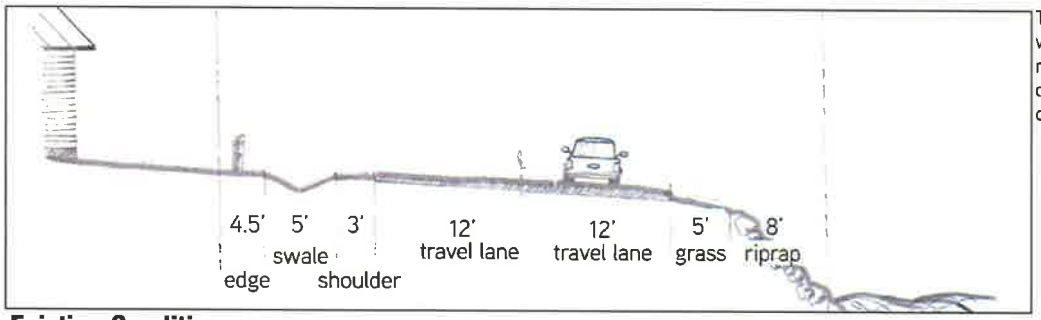
Planning Level Cost Estimate

$840,000



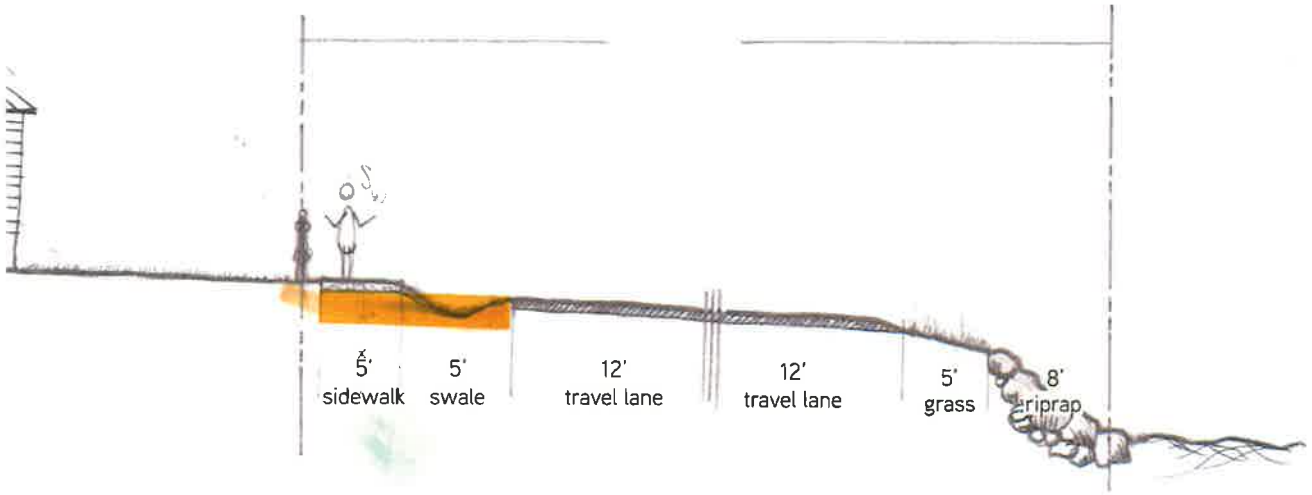
Alternative 1: SW West

Northern Constraint



The site of a former Bloody Brook flood washing out a portion of Beaver Meadow road is still adjacent to a shored-up section of waterway that could impact future construction.

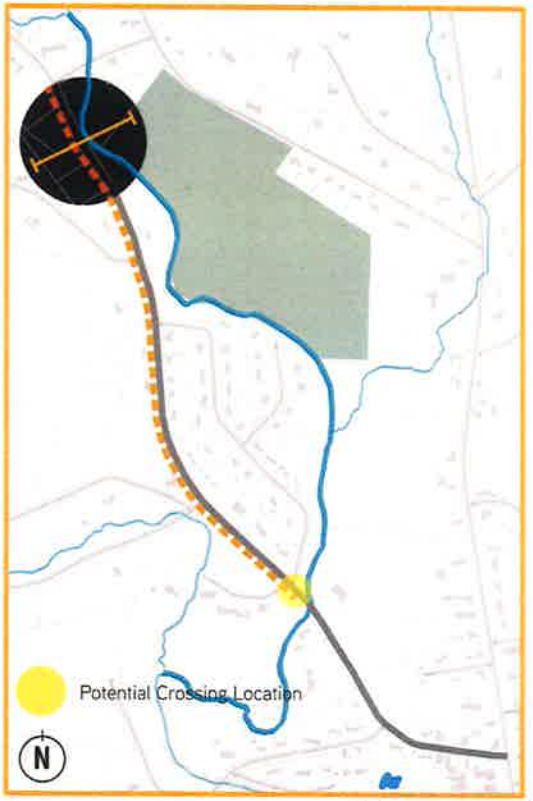
Existing Conditions



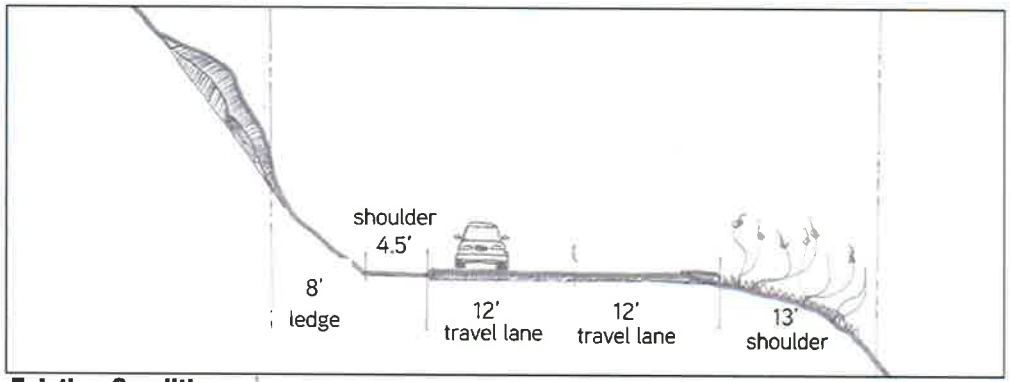
Proposed

New Construction

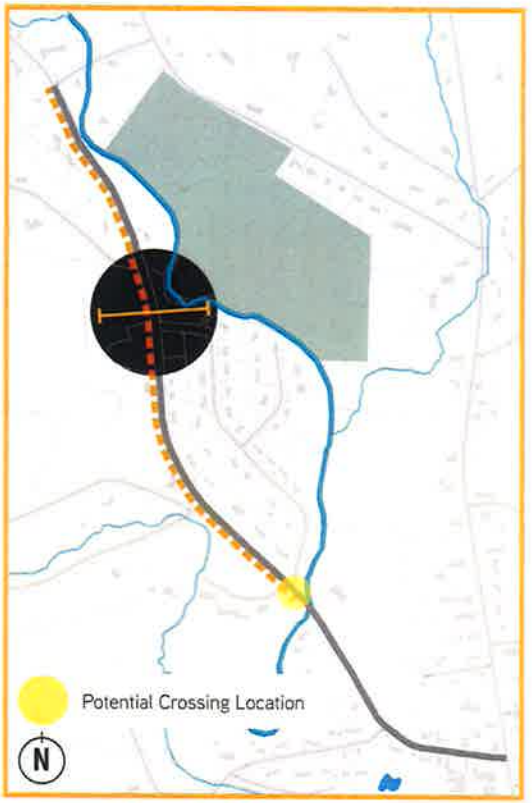
Reconstruct drainage swale adjacent to western edge of roadway
Build sidewalk adjacent to property line
Relocate fence to precise property line.



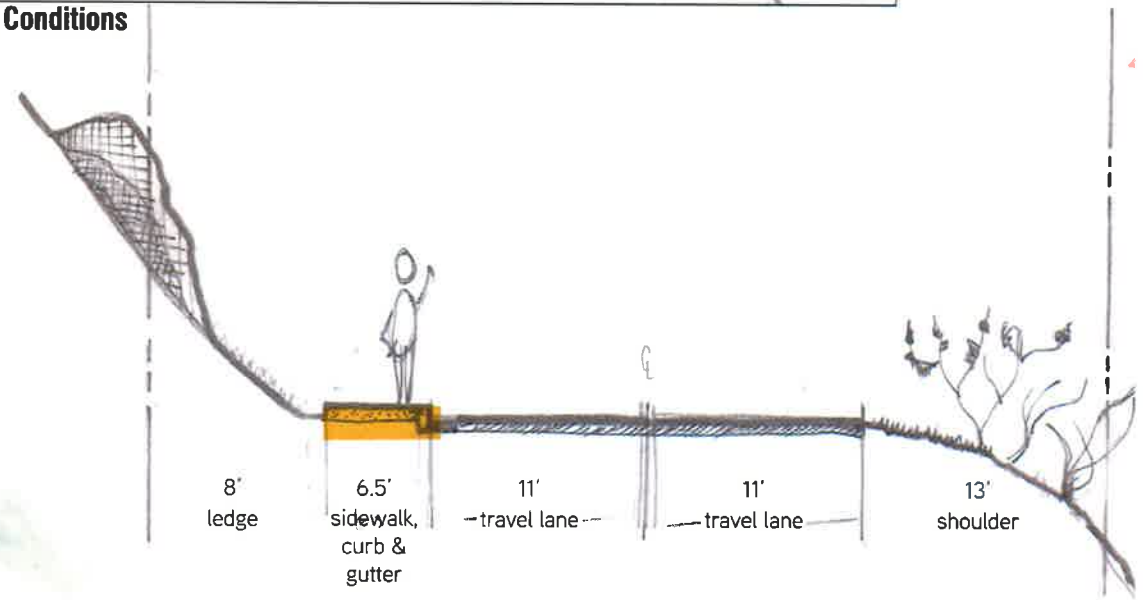
Alternative 1: SW West Middle Constraint



This pinch point just north of Huntley St is bounded by rock ledge immediately west of the roadway, and steep slopes to Bloody Brook to the east. These physical constraints limit construction opportunities here.



Existing Conditions



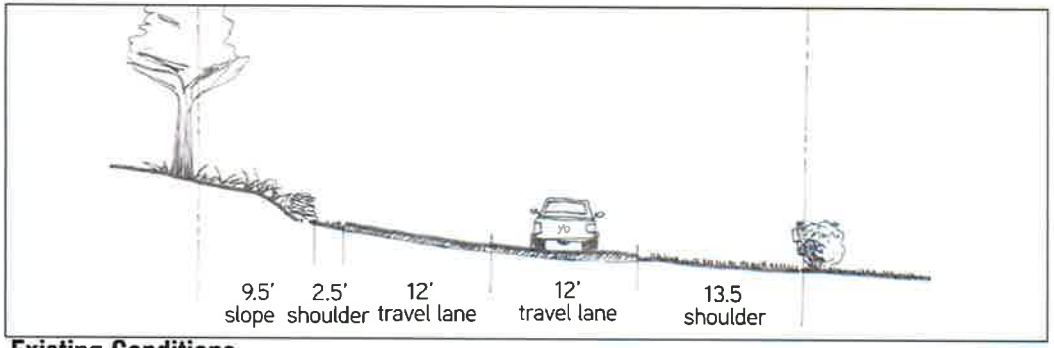
Proposed

New Construction

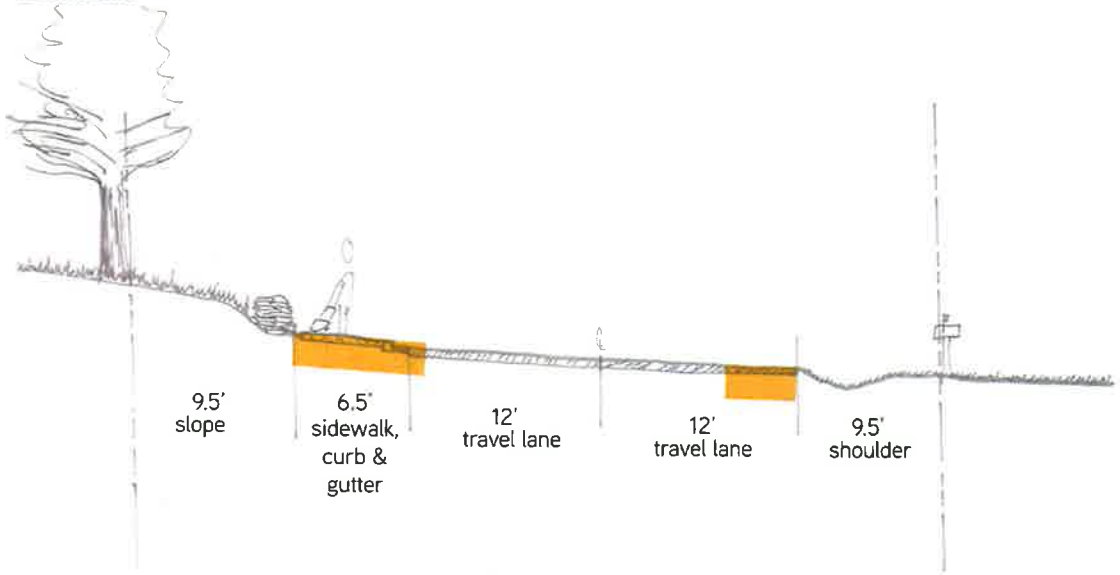
Construct sidewalk, curb and gutter on western side of roadway against toe of slope. Narrow travel lanes to 11' in either direction to accommodate sidewalk.

Alternative 1: SW West

Southern Constraint



Existing Conditions

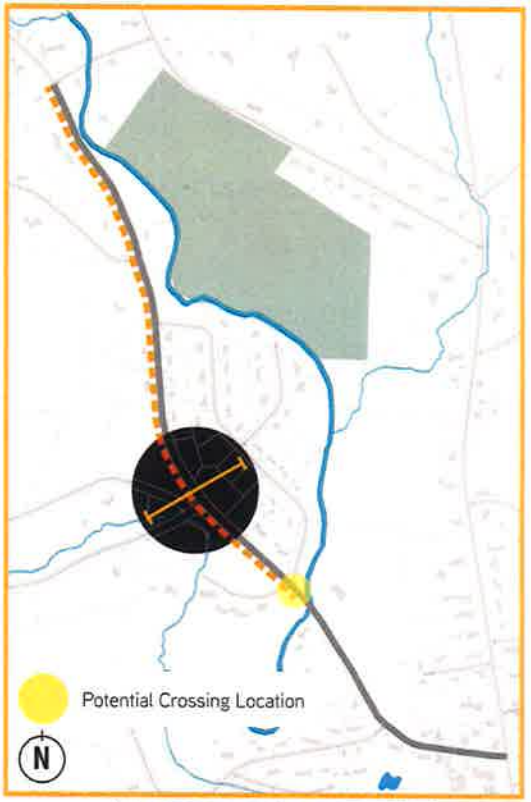


Proposed

New Construction

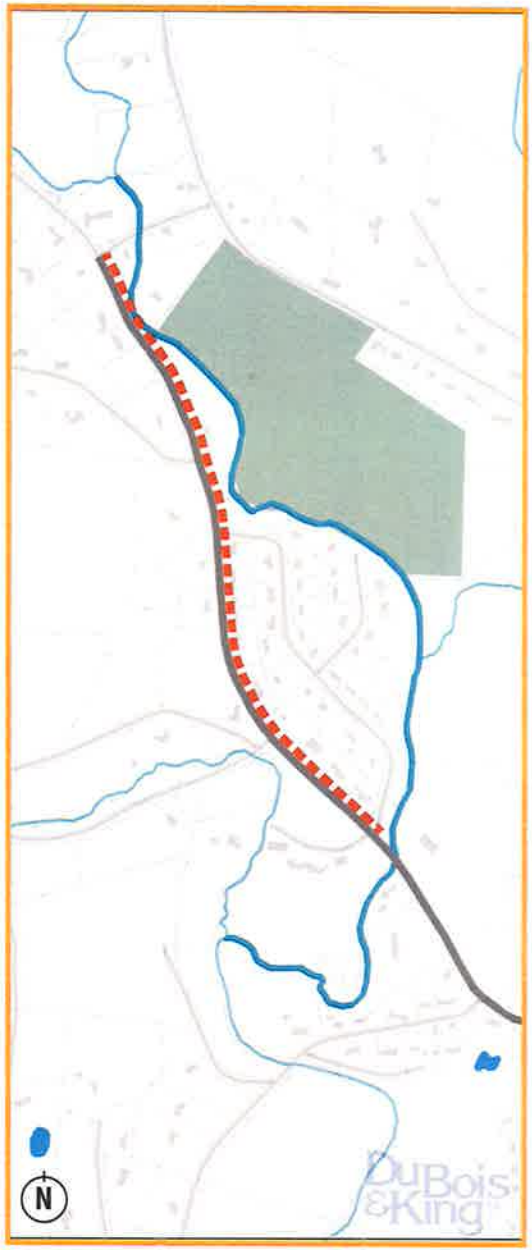
Construct sidewalk curb and gutter between road edge and historic stone wall. Expand roadway to east in order to maintain sufficient width for two 12' travel lanes.

A significant historic rock wall within the right of way creates a challenge for any construction on the west side of the roadway.



Alternative 2: SW East

A sidewalk developed on the eastern side of Beaver Meadow road would connect directly to existing sidewalk corridor to the south.



Requirements:

Relocation of overhead utilities throughout corridor
Minor crossings along Huntley St. (North and South)
Address access at American Legion

Benefits:

Direct connection to existing sidewalk corridor.
Sidewalk location stays consistent along entirety of Beaver Meadow Road
Potential for direct access to Huntley meadow via planned access north of American Legion.

Drawbacks:

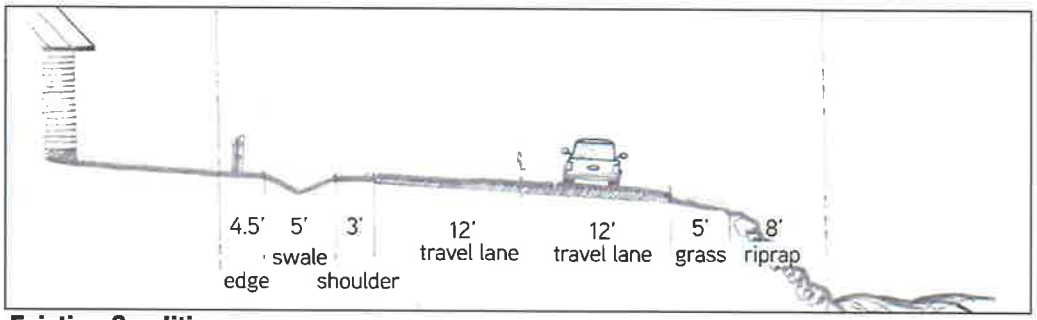
Construction adjacent to Bloody Brook could prove costly and complex.
Most costly of sidewalk options

Planning Level Cost Estimate

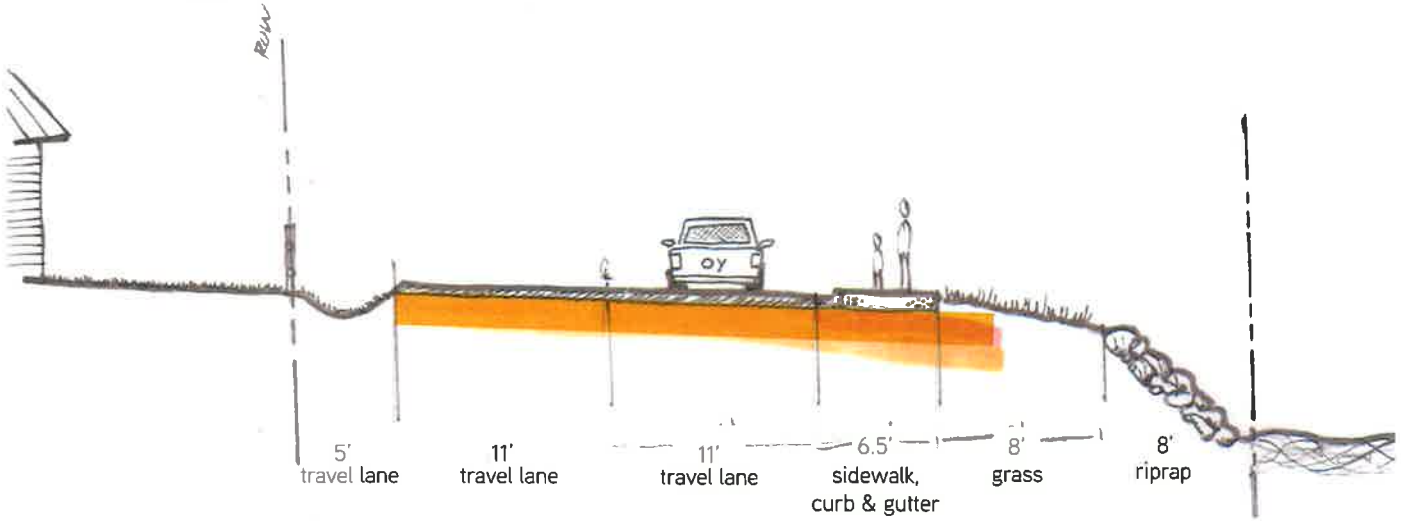
$880,000

Alternative 2: SW East

Northern Constraint



Existing Conditions

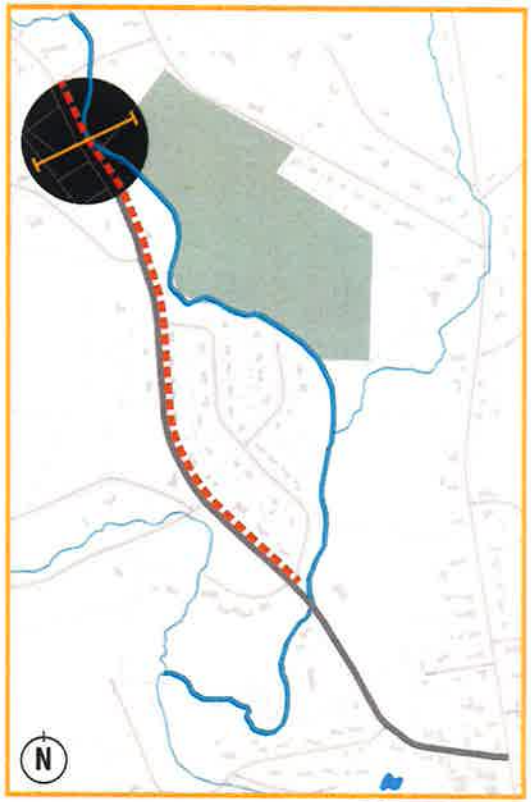


Proposed

New Construction

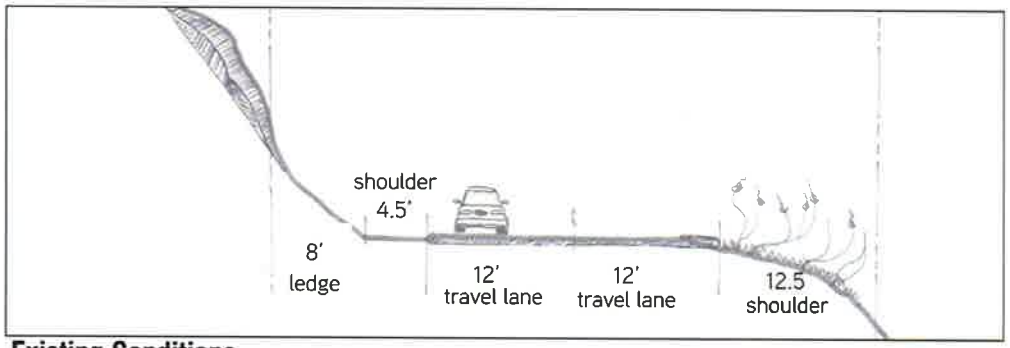
Reconstruct roadway to move entire corridor west.
Build sidewalk, curb and gutter against new 11' travel lanes
Expand existing buffer against Bloody Brook Shoreline
Relocate fence to ROW line and reconstruct drainage swale within public ROW.

The site of a former Bloody Brook flood washing out a portion of Beaver Meadow road is still adjacent to a shored-up section of waterway that could impact future construction.

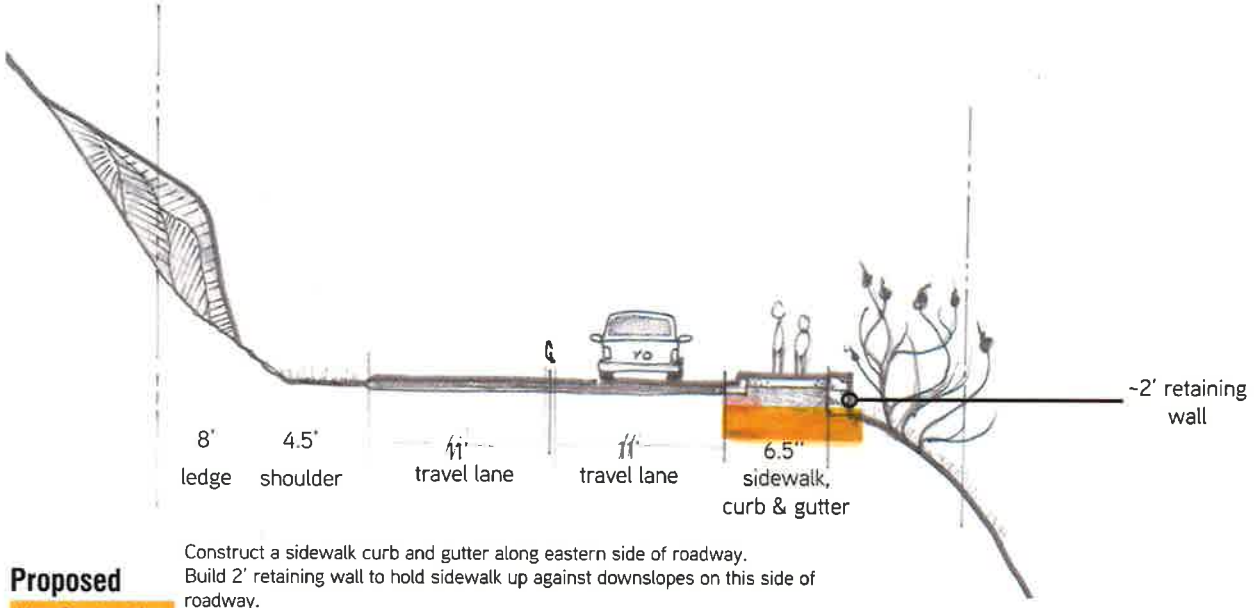


Alternative 2: SW East

Middle Constraint



Existing Conditions

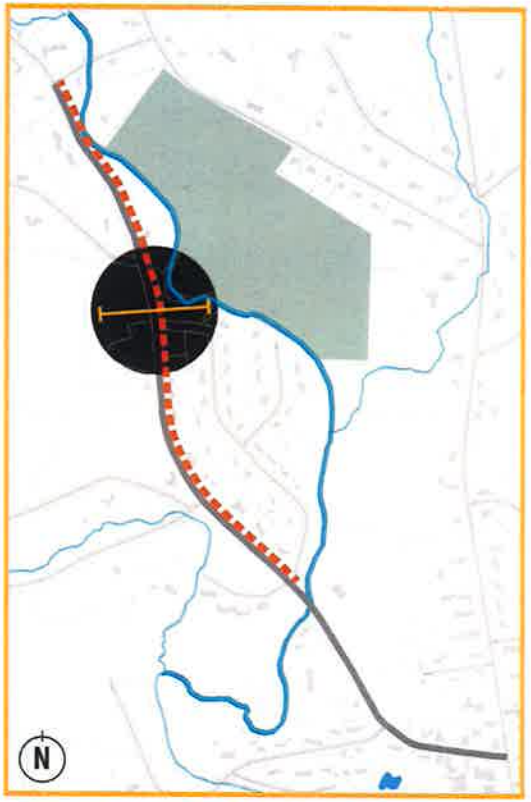


Proposed

New Construction

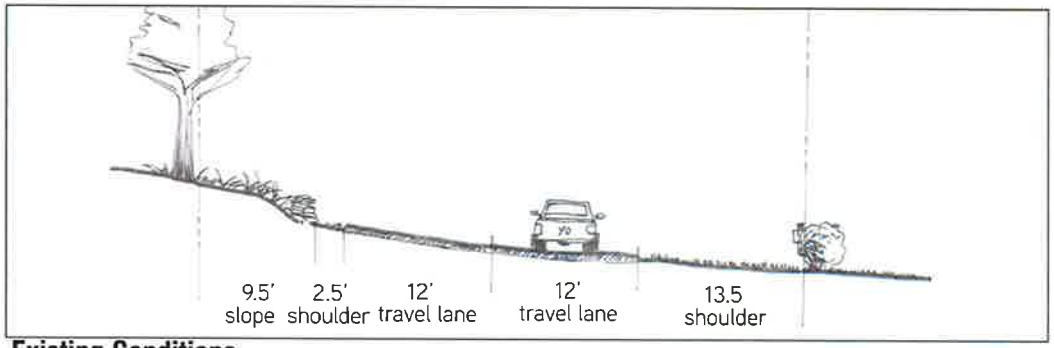
Construct a sidewalk curb and gutter along eastern side of roadway.
Build 2' retaining wall to hold sidewalk up against downslopes on this side of roadway.
Narrow travel lanes to 11' to accommodate sidewalk width.

This pinch point just north of Huntley St is bounded by rock ledge immediately west of the roadway, and steep slopes to Bloody Brook to the east. These physical constraints limit construction opportunities here.



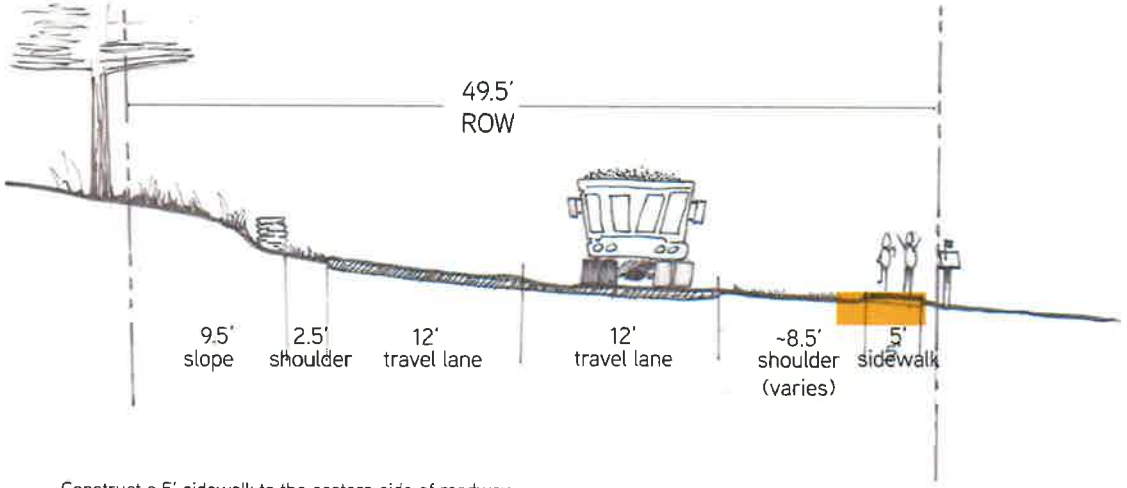
Alternative 2: SW East

Southern Constraint



Existing Conditions

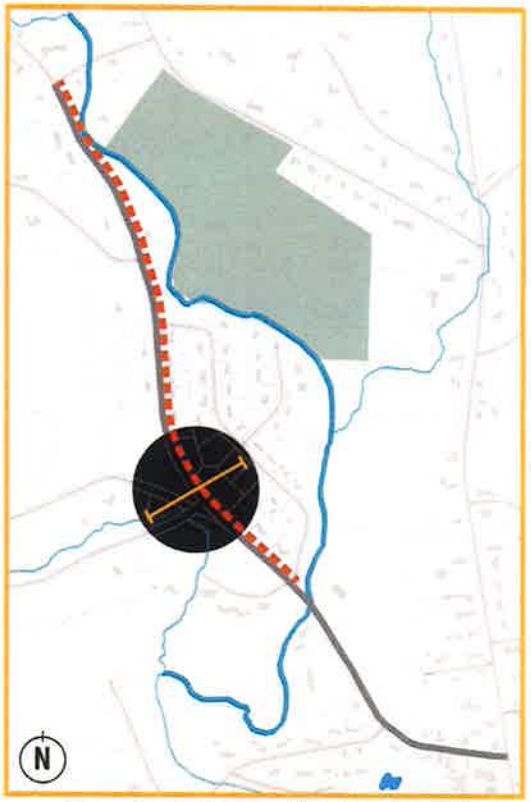
A significant historic rock wall within the right of way creates a challenge for any construction on the west side of the roadway.



Proposed

New Construction

Construct a 5' sidewalk to the eastern side of roadway.
Vary exact location within Right Of Way to reduce cost of relocating utilities, etc.



Alternative 3: Sidewalk Alternates East/West

A mix of alternative 1 and 2, this alternative seeks to reduce cost and construction complexity by crossing the street just north of Huntley Street. Impacts in constrained areas are identical to alternative 1 (northern and middle constraint) and alternative 2 (southern constraint)

Requirements:

Relocation of overhead utilities throughout corridor
Develop a safe crossing design north of Huntley St.

Benefits:

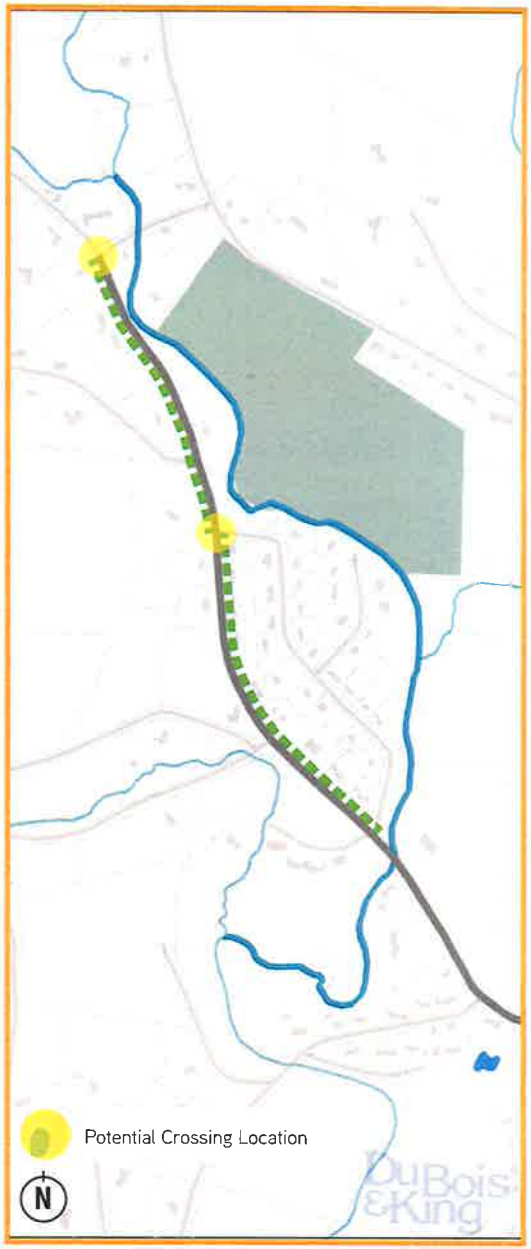
Lowest cost of sidewalk options

Drawbacks:

Road crossing introduces safety concern

Planning Level Cost Estimate

$810,000



Alternative 3: Mobility Lanes

An expansion of the roadway pavement surface to allow for town painting and maintaining of a two-way, buffered (when possible) bike and pedestrian travel lane. This alternatives' construction would allow the town future flexibility in programming the use of this street.

Requirements:

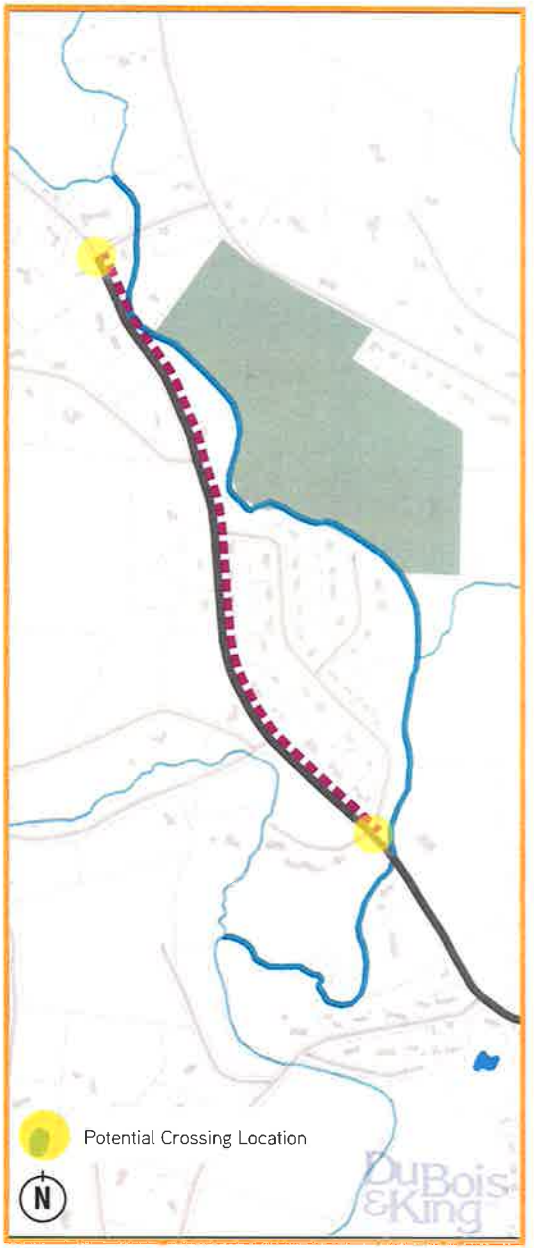
Relocation of overhead utilities throughout corridor
Design parking and access solutions for American Legion ($)
Develop safe access at either end of corridor, as bicycle and pedestrian traffic must cross travel lanes to access mobility lanes

Benefits:

Lower cost option when compared to sidewalk construction
Flexible alternative that could be re-designed as 2 way bike lanes by re striping roadway

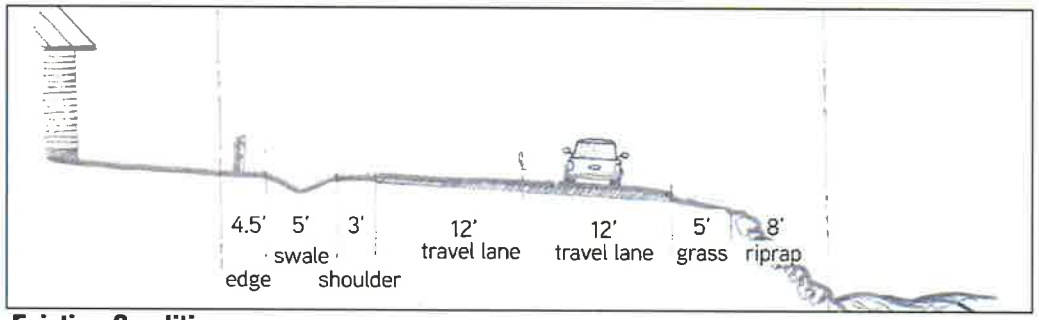
Planning Level Cost Estimate

$340,000



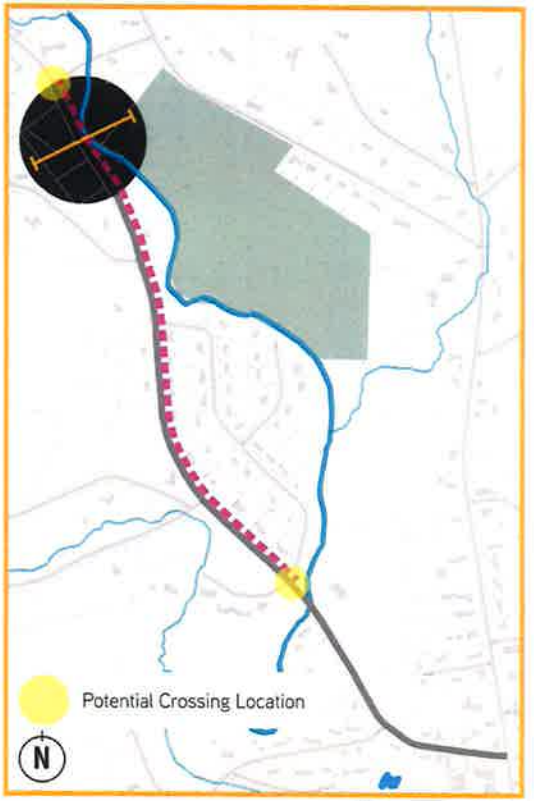
Alternative 3: Mobility Lanes

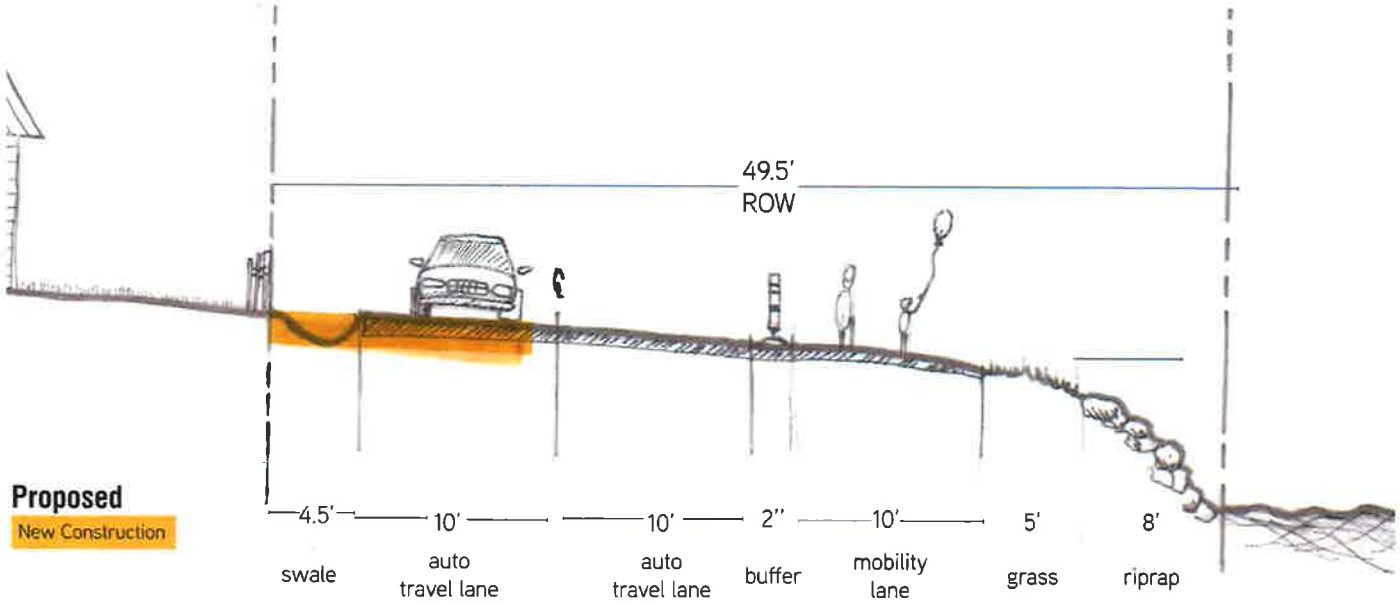
Northern Constraint



Existing Conditions

The site of a former Bloody Brook flood washing out a portion of Beaver Meadow road is still adjacent to a shored-up section of waterway that could impact future construction.





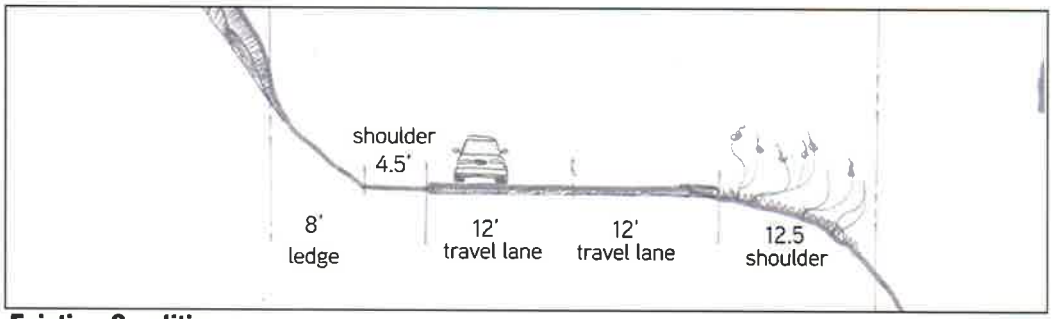
Proposed

New Construction

Expand pavement to west, maintain stormwater swale against private property.
Relocate property fence.
Narrow travel lanes to 10' in either direction.
Create a two way mobility lane with a 2' painted and barricaded buffer
Requires relocation of overhead utilities

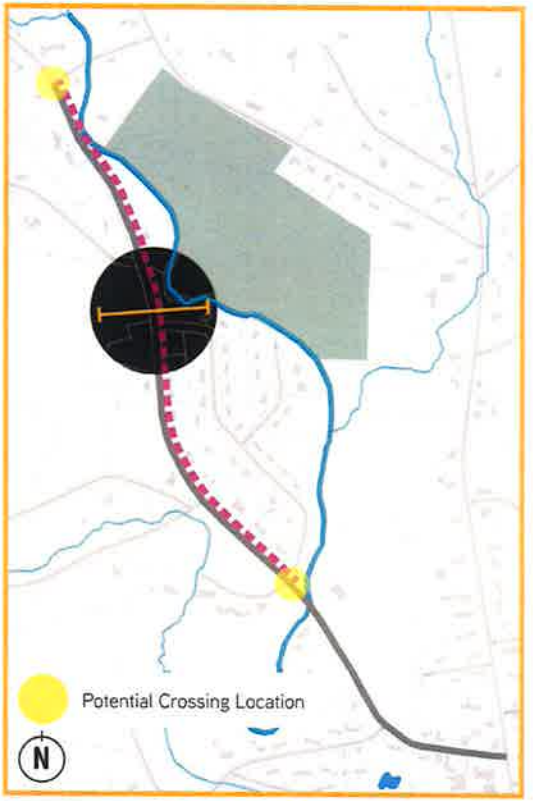
Alternative 3: Mobility Lanes

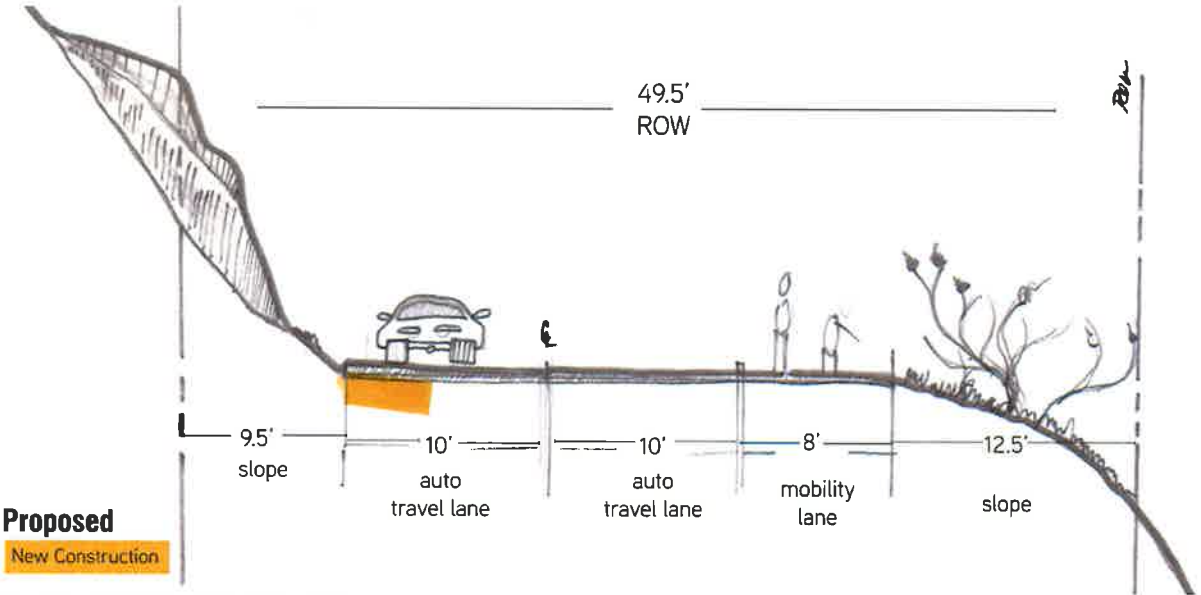
Middle Constraint



Existing Conditions

This pinch point just north of Huntley St is bounded by rock ledge immediately west of the roadway, and steep slopes to Bloody Brook to the east. These physical constraints limit construction opportunities here.





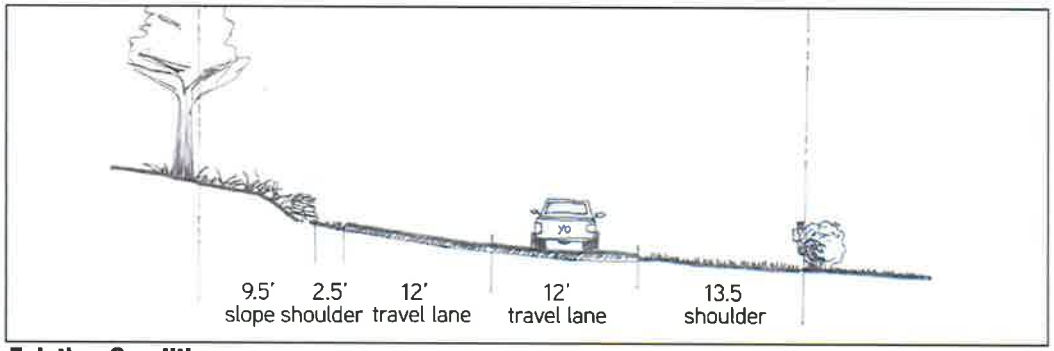
Proposed

New Construction

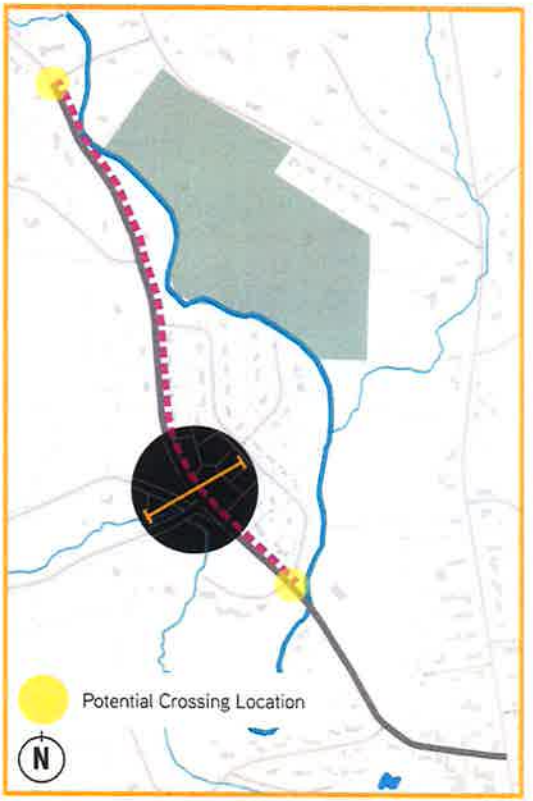
Narrow travel lanes to 10' in either direction.
Expand pavement to edge of ledge slope on western side of roadway.
Create two way travel mobility lane of 8', demarcated by road striping.

Alternative 3: Mobility Lanes

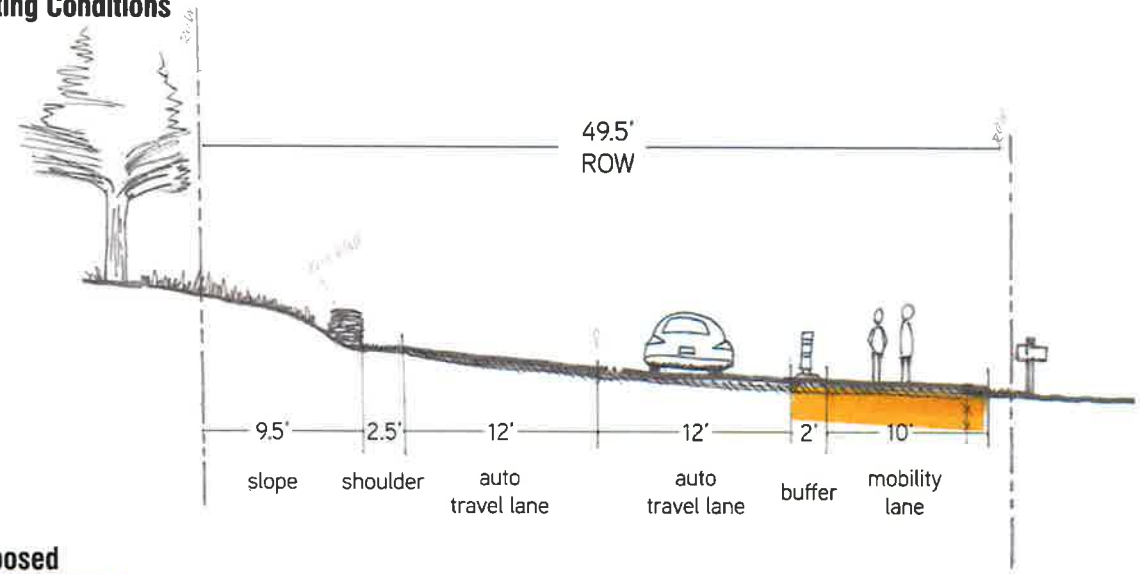
Southern Constraint



A significant historic rock wall within the right of way creates a challenge for any construction on the west side of the roadway.



Existing Conditions



Proposed

New Construction

Expand pavement to eastern side by 12'
Create a two way mobility lane with a 2' painted and barricated buffer
Requires relocation of overhead utility poles

ALTERNATIVE CONCEPTS

Vote for your preferred alternative at:
tinyurl.com/beavermeadowsidewalk

DuBois & King

Detailed Capital Budget Request Form

1. Project Details

Project Name CBR #3 -- Beaver Meadow Road (Main St. to Brigham Hill Road) Road / Sidewalk Project — Life (years) 20

Project Originator Herb Durfee / L. Wiggins — Phone

Department Public Works - Highway

Desired project timing 2023 - 2024 — Completion Date 2024 (TM Scheduled)

2. Project Description/Justification

1) Reclaim and pave Beaver Meadow Road from Main St. to Brigham Hill Road

2) Reconstruct Existing sidewalk on Beaver Meadow Road.

3) Construct new sidewalk o Beaver Meadow Road from Existing sidewalk to Brigham Hill Road.

3. Project Cost Estimate

1) Blacktop estimate 10/09/2020 (Page 3 of 3) $245,550

2) Blacktop estimate 10/09/2020 (Page 1 of 3) $ 55,240

3) Blacktop estimate 10/09/2020 (Page 2 of 3) $130,650

Total Project Cost = $431,500

BLAKTOP, INC
P.O. Box 5243, West Lebanon, NH 03784
603-298-8885
Fax 298-6120
www.blaktop.com
Member, NATIONAL ASPHALT PAVEMENT ASSN.

BLAKTOP
WE PAVE THE WAY
WEST LEBANON, NH · 603-298-8885
LITTLETON, NH · 603-444-8882

BUDGETARY PROPOSAL

Proposal submitted to:
Town of Norwich
PO Box 376
Norwich, VT 05055

Date: 10/9/2020

Job Name: Sidewalk Reconstruction
Job Location: Norwich, Vermont
Phone: (802) 649-2209
Attn: Larry Wiggins
e-mail: lwiggins@norwich.vt.us

We hereby submit specifications and estimates for:

Project: Sidewalk Reconstruction – Beaver Meadow Road, from Main Street to Brigham Hill Road in Norwich, Vermont

This budgetary proposal provides preliminary figures to reclaim existing asphalt sidewalk along Beaver Meadow Road in Norwich, Vermont, and reconstruct. This proposal includes reclaiming, gravel preparation, curbing and asphalt sidewalk paving at 5' width, as outlined below; requisite elements pertinent to performance of this scope are included, including traffic control, grading and mobilization; total area for this budgetary proposal is approximately 690 square yards (6,210 square feet)

Blaktop scope of work:

- **Reclaim Sidewalk & Grading** **$30.08/SY** **$20,760.40**
  - Provide traffic control during work hours
  - Mobilize equipment and reclaim 1035' segment of Beaver Meadow Road sidewalk
  - Remix with CaCl2, rate of 1 gallon per sq. yd.
  - Reconstruct subbase with ¾" twinpack gravel
  - Fine grade (+/- 1") and compact subbase material

- **Asphalt Curbing & Sidewalk Paving, 2" compacted thickness** **$34,476.32**
  - Provide traffic control during work hours
  - Mobilize paving crew & equipment to work area
  - Pave 1,035' new asphalt curbing, reveal of 6"
  - Pave a 2" top course of 3/8" hot mix asphalt, 5' width

Asphalt cement escalation/de-escalation:
Paving prices contained in this proposal will be adjusted, if necessary, in relation to changes in asphalt cement costs at the time the paving is done. The paving prices contained in this proposal are based on the current month Agency of Transportation Monthly Average Posted Price for Asphalt Cement.

Prices, if accepted, are valid for 2020 paving season

Terms: Full payment due within 30 days of invoice.

Submitted by: Bryan Sicard

Acceptance of Proposal:
The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work specified. Payment will be made as outlined in the terms above. This proposal becomes invalid and may be withdrawn if not accepted within 30 days.

Date of Acceptance: _____ Signature _____ Title _____

BLAKTOP, INC
P.O. Box 5243, West Lebanon, NH 03784
603-298-8885
Fax 298-6120
www.blaktop.com
Member, NATIONAL ASPHALT PAVEMENT ASSN

BLAKTOP INC
WE PAVE THE WAY
WEST LEBANON, NH · 603-298-8885
LITTLETON, NH · 603-444-8882

BUDGETARY PROPOSAL

Proposal submitted to:
Town of Norwich
PO Box 376
Norwich, VT 05055

Date: 10/9/2020

Job Name: Sidewalk Reconstruction
Job Location: Norwich, Vermont
Phone: (802) 649-2209
Attn: Larry Wiggins
e-mail: lwiggins@norwich.vt.us

Total Price: $55,236.72

Asphalt cement escalation/de-escalation:
Paving prices contained in this proposal will be adjusted, if necessary, in relation to changes in asphalt cement costs at the time the paving is done. The paving prices contained in this proposal are based on the current month Agency of Transportation Monthly Average Posted Price for Asphalt Cement.

Prices, if accepted, are valid for 2020 paving season

Terms: Full payment due within 30 days of invoice.

Submitted by: Bryan Sicard

Acceptance of Proposal:
The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work specified. Payment will be made as outlined in the terms above. This proposal becomes invalid and may be withdrawn if not accepted within 30 days.

Date of Acceptance: _____ Signature _____ Title _____

BLAKTOP, INC
P.O. Box 5243, West Lebanon, NH 03784
603-298-8885
Fax 298-6120
www.blaktop.com
Member, NATIONAL ASPHALT PAVEMENT ASSN.

BLAKTOP
WE PAVE THE WAY
WEST LEBANON, NH · 603-298-8885
LITTLETON, NH · 603-444-8882

BUDGETARY PROPOSAL

Proposal submitted to:
Town of Norwich
PO Box 376
Norwich, VT 05055

Date: 10/9/2020

Job Name: New Sidewalk Construction
Job Location: Norwich, Vermont
Phone: (802) 649-2209
Attn: Larry Wiggins
e-mail: lwiggins@norwich.vt.us

We hereby submit specifications and estimates for:

Project: New Sidewalk Construction – Beaver Meadow Road, from Existing Sidewalk to Moore Lane junction in Norwich, Vermont

This budgetary proposal provides preliminary figures to construct a new asphalt sidewalk, approximately 3,150' in length, along a segment of Beaver Meadow Road, from the end of the existing sidewalk near the Bloody Brook Bridge, and ending at the junction with Moore Lane in Norwich, Vermont. This proposal includes excavation, subbase and gravel preparation, curbing and asphalt sidewalk paving at 5' width, as outlined below; requisite elements pertinent to performance of this scope are incorporated, including traffic control, grading and mobilization; total area for this budgetary proposal is approximately 2,100 square yards (18,900 square feet)

Blaktop scope of work:

- **Prepare New Sidewalk Subbase** **$61,275.00**
  - Provide traffic control during preparation work hours
  - Mobilize necessary equipment
  - Excavate native soils to 18" depth (below finish grade) at 6' width
  - Reconstruct subbase with crushed stone
  - Fine grade (+/- 1") and compact subbase material

- **Asphalt Sidewalk Paving, 2" compacted thickness & Curb** **$69,405.81**
  - Provide traffic control during paving work hours
  - Mobilize paving crew & equipment to work area
  - Pave 3,796' new asphalt curbing, reveal of 6"
  - Pave a 2" top course of 3/8" hot mix asphalt, 5' width

Asphalt cement escalation/de-escalation:
Paving prices contained in this proposal will be adjusted, if necessary, in relation to changes in asphalt cement costs at the time the paving is done. The paving prices contained in this proposal are based on the current month Agency of Transportation Monthly Average Posted Price for Asphalt Cement.

Prices, if accepted, are valid for 2020 paving season

Terms: Full payment due within 30 days of invoice.

Submitted by: Bryan Sicard

Acceptance of Proposal:
The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work specified. Payment will be made as outlined in the terms above. This proposal becomes invalid and may be withdrawn if not accepted within 30 days.

Date of Acceptance: _____ Signature _____ Title _____

BLAKTOP, INC
P.O. Box 5243, West Lebanon, NH 03784
603-298-8885
Fax 298-6120
www.blaktop.com
Member, NATIONAL ASPHALT PAVEMENT ASSN.

BLAKTOP INC
WE PAVE THE WAY
WEST LEBANON, NH · 603-298-8885
LITTLETON, NH · 603-444-8882

BUDGETARY PROPOSAL

Proposal submitted to:
Town of Norwich
PO Box 376
Norwich, VT 05055

Date: 10/9/2020

Job Name: New Sidewalk Construction
Job Location: Norwich, Vermont
Phone: (802) 649-2209
Attn: Larry Wiggins
e-mail: lwiggins@norwich.vt.us

Total Price: $130,680.81

Asphalt cement escalation/de-escalation:
Paving prices contained in this proposal will be adjusted, if necessary, in relation to changes in asphalt cement costs at the time the paving is done. The paving prices contained in this proposal are based on the current month Agency of Transportation Monthly Average Posted Price for Asphalt Cement.

Prices, if accepted, are valid for 2020 paving season

Terms: Full payment due within 30 days of invoice.

Submitted by: Bryan Sicard

Acceptance of Proposal:
The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work specified. Payment will be made as outlined in the terms above. This proposal becomes invalid and may be withdrawn if not accepted within 30 days.

Date of Acceptance: _____ Signature _____ Title _____

BLAKTOP, INC
P.O. Box 5243, West Lebanon, NH 03784
603-298-8885
Fax 298-6120
www.blaktop.com
Member, NATIONAL ASPHALT PAVEMENT ASSN.

BLAKTOP
WE PAVE THE WAY
WEST LEBANON, NH · 603-298-8885
LITTLETON, NH · 603-444-8882

BUDGETARY PROPOSAL

Proposal submitted to:
Town of Norwich
PO Box 376
Norwich, VT 05055

Date: 10/9/2020

Job Name: Beaver Meadow Road Reconstruction
Job Location: Norwich, Vermont
Phone: (802) 649-2209
Attn: Larry Wiggins
e-mail: lwiggins@norwich.vt.us

We hereby submit specifications and estimates for:

Project: Road Reconstruction – Beaver Meadow Road from Main Street to Brigham Hill Road in Norwich, Vermont

This budgetary proposal provides preliminary figures to reclaim approximately 5,527' of Beaver Meadow Road, from Main Street to Brigham Hill Road in Norwich, Vermont. This proposal includes reclaiming, with a sheepsfoot roller, calcium chloride application, and asphalt paving, as outlined below; requisite elements pertinent to performance of this scope are included, including traffic control, grading and mobilization; total area for this budgetary proposal is 13,511 square yards (121,594 square feet)

Blaktop scope of work:

- **Reclaim 5,527' of Beaver Meadow Road & Grading** **$3.90/SY**
  $52,740.66
  - Provide traffic control during work hours
  - Mobilize equipment and reclaim segment of Beaver Meadow Road
  - Remix with CaCl2, rate of 1 gallon per sq. yd.
  - Compact with sheepsfoot roller
  - Rough grade to form road profile using existing reclaimed subbase material
  - Fine grade (+/- 1") and compact existing subbase material

- **Asphalt Paving, 3 ½" compacted thickness** **$71.78/Ton** **$192,812.22**
  - Provide traffic control during work hours
  - Mobilize paving crew & equipment to work area
  - Pave a 2.5" binder course of ¾" hot mix asphalt, 22' width

Asphalt cement escalation/de-escalation:
Paving prices contained in this proposal will be adjusted, if necessary, in relation to changes in asphalt cement costs at the time the paving is done. The paving prices contained in this proposal are based on the current month Agency of Transportation Monthly Average Posted Price for Asphalt Cement.

Prices, if accepted, are valid for 2020 paving season

Terms: Full payment due within 30 days of invoice.

Submitted by: Bryan Sicard

Acceptance of Proposal:
The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work specified. Payment will be made as outlined in the terms above. This proposal becomes invalid and may be withdrawn if not accepted within 30 days.

Date of Acceptance: _____ Signature _____ Title _____

BLAKTOP, INC
P.O. Box 5243, West Lebanon, NH 03784
603-298-8885
Fax 298-6120
www.blaktop.com
Member, NATIONAL ASPHALT PAVEMENT ASSN.

BLAKTOP INC
WE PAVE THE WAY
WEST LEBANON, NH · 603-298-8885
LITTLETON, NH · 603-444-8882

BUDGETARY PROPOSAL

Proposal submitted to:
Town of Norwich
PO Box 376
Norwich, VT 05055

Date: 10/9/2020

Job Name: Beaver Meadow Road Reconstruction
Job Location: Norwich, Vermont
Phone: (802) 649-2209
Attn: Larry Wiggins
e-mail: lwiggins@norwich.vt.us

- Apply asphalt emulsion (tack) prior to top course paving
- Pave a 1" top course of 3/8" hot mix asphalt, 22' width

Total Price: $245,552.88

Asphalt cement escalation/de-escalation:
Paving prices contained in this proposal will be adjusted, if necessary, in relation to changes in asphalt cement costs at the time the paving is done. The paving prices contained in this proposal are based on the current month Agency of Transportation Monthly Average Posted Price for Asphalt Cement.

Prices, if accepted, are valid for 2020 paving season

Terms: Full payment due within 30 days of invoice.

Submitted by: Bryan Sicard

Acceptance of Proposal:
The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work specified. Payment will be made as outlined in the terms above. This proposal becomes invalid and may be withdrawn if not accepted within 30 days.

Date of Acceptance: _____ Signature _____ Title _____

Detailed Capital Budget Request Form

1. Project Details

Project Name CBR #4 -- Beaver Meadow Road Paving – from 2.5 miles from Brigham Hill Rd

Life (years) 20

Project Originator L. Wiggins Phone

Department Public Works – Highway

Desired project timing 2024 - 2025 Completion Date 2025

2. Project Description/Justification

Shim and overlay of Beaver Meadow Road from Brigham Hill Road 2.5 miles towards Sharon town line. Estimate includes shoulder gravel.

Approximately 12,000 feet.

Reference Blaktop, Inc budgetary quote

Total project cost = $206,208

3. Project Cost Estimate

Project to be issued for bid on a unit cost basis. Director will apply for VTRANS paving grant.

Detailed Capital Budget Request Form

1. Project Details

Project Name CBR #5 -- Beaver Meadow Road Paving – from 2.5 miles to Sharon Life (years) 20

Project Originator L. Wiggins Phone

Department Public Works – Highway

Desired project timing 20225 - 2026 Completion Date 2026

2. Project Description/Justification

Shim and overlay of Beaver Meadow Road from previous paving project end to Sharon. Estimate includes shoulder gravel.

Approximately 9800 feet.

Shim 1" and overlay 1" = approximately 2800 tons at $80/ton = $225,000

Shoulder gravel 560 tons at $40/ton = $23,000

Total project cost = $248,000

3. Project Cost Estimate

Project to be issued for bid on a unit cost basis. Director will apply for VTRANS paving grant.

Detailed Capital Budget Request Form

1. Project Details

Project Name CBR#6 -- Paving of hill sections of selected roads Life (years) 20

Project Originator L. Wiggins Phone

Department Public Works - Highway

Desired project timing 2026 - 2027 Completion Date 2027

2. Project Description/Justification

Paving of the steep hill sections of gravel roads.

Tucker Hill Rd., Tilden Hill Rd., Blood Hill East Rd., Bragg Hill Rd., Dutton East Rd., Bowen Rd.

3. Project Cost Estimate

LAW estimate $250,000

(3)

October 17, 2020

FYI

Norwich Selectboard
Tracy Hall
300 Main Street
Norwich, VT 05055

Dear Chair Brochu and Members:

The Selectboard packet for the August 26, 2020, meeting included a draft Capital Budget and Program for fiscal years ending in 2021 through 2026. Capital Program #5 for 2026 included an item for paving Blood Hill Road East.

While this item is "for planning purposes only," we, the residents of Blood Hill Road East, all of whom own our properties, do not want to see the road paved and believe the paving of Blood Hill Road East is an unnecessary expense and should be removed from the budget now and in future years.

The road has many stately sugar maples, nearly 100 years old, along with other mature trees and vegetation that contribute to the rural and scenic character of the road. It is a corridor that is enjoyed by many in the area, in addition to its residents, for its relaxed and calming atmosphere and the opportunities it provides for syrup making, hiking, dog walking, horseback riding, and bike riding.

Reasons for not paving Blood Hill Road East include:

- Paving would dramatically impact the scenic character of the road
- Existing sugar maples would suffer from adjacent construction and pavement and potentially would need to be removed if paving includes a standard width section and side drainage ditches
- Salt in the runoff from a paved road will harm adjacent trees and downstream habitat
- It is an unnecessary expense in these times of constrained budgets
- Increasing the amount of impervious surface would impact the health of the surrounding trees and vegetation and increase the volume of storm water runoff
- We should look toward ways to reduce the use of petroleum–based products and annual grading seems to be a reasonable alternative
- Erosion has been a minor issue and has not posed problems for those of us driving the road
- A paved road may attract more traffic
- Fears of black ice forming on asphalt pavement leading to winter accidents that we don't currently experience

Thank you for your consideration and we look forward to a future budget that does not include paving Blood Hill Road East.

Sincerely,

Dave & Ellen Hobson

John & Jean Lawe

John & Carla Vincent

Jeff & Brie Swenson

Iain Wallis

Graham & Suzie Wallis

Sue Jennings & Harley Clark

Detailed Capital Budget Request Form

1. Project Details

Project Name	CBR #7 – Bridge Inventory	Life (years)	50
Project Originator	L. Wiggins	Phone	
Department	Public Works - Highway		
Desired project timing	2021 - 2022	Completion Date	2022

2. Project Description/Justification

Town wide bridge inventory of all bridges / culverts greater than 5' in width.

Inventory shall provide bridge information, repair / replacement with priority and estimated cost.

3. Project Cost Estimate

Stantec estimates = $57,000.
Director do prepare and issue an RFP for bridge inventory submittals.

Detailed Capital Budget Request Form

1. Project Details

Project Name CBR#8 -- Tigertown Box Culverts Life (years) 50

Project Originator L. Wiggins Phone

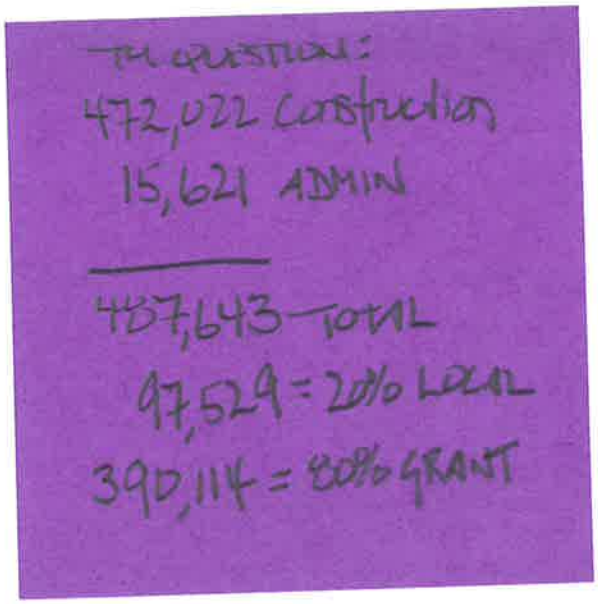
Department Public Works - Highway

Desired project timing 2021- 2022 Completion Date 2021

2. Project Description/Justification

Construction and construction administration of (2) box culverts on Tigertown Road.

Stantec designed (2) Concrete box culverts to be constructed in summer of 2021.



3. Project Cost Estimate

Stantec estimates of construction cost = $472,022.

Town portion (20%) = $94,404.

Construction administration and inspections

Costs = $15,621

(Provided by TRORC Contract)

Total Cost Estimate = $472,022 + $15,621 = $487,643

Detailed Capital Budget Request Form

1. Project Details

Project Name CBR ~~#8~~ #9 -- Rt. 132 Bridge Project – Construction Life (years) 50

Project Originator L. Wiggins Phone

Department Public Works - Highway

Desired project timing 2021 - 2022 Completion Date 2021

2. Project Description/Justification

Construction and construction administration of the Rt/ 132 Bridge Project. Stantec designed concrete box culvert to be constructed in summer of 2021.

3. Project Cost Estimate

Stantec estimate of construction cost = $300,000. (see attached concept estimate)

Construction administration and inspection costs = $15,621. (Provided by TRORC)

Director will apply for VTRANS Structures Grant.

Stantec

55 Green Mountain Drive
South Burlington, VT 05403
Tel: (802) 864-0223

Quantity Summary

Norwich

Route 132 Culvert Replacement

CONCEPTUAL ESTIMATE

	Initials	Date
Calc'd By:	ISM	9/17/2020
Checked By:		
Revised By:		
Checked By:		

Item No.	Item Description	Unit	Unit Price	Quantity	$
201.10	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	LS	$10,000.00	1	$10,000.00
203.15	COMMON EXCAVATION	CY	$25.00	150	$3,750.00
203.27	UNCLASSIFIED CHANNEL EXCAVATION	CY	$30.00	25	$750.00
204.25	STRUCTURE EXCAVATION	CY	$30.00	240	$7,200.00
204.30	GRANULAR BACKFILL FOR STRUCTURES	CY	$55.00	175	$9,625.00
210.10	COARSE-MILLING, BITUMINOUS PAVEMENT	SY	$10.00	115	$1,150.00
301.35	SUBBASE OF DENSE GRADED CRUSHED STONE	CY	$60.00	75	$4,500.00
404.65	EMULSIFIED ASPHALT	CWT	$50.00	3	$150.00
406.35	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	TON	$120.00	85	$10,200.00
514.10	WATER REPELLENT, SILANE	GAL	$100.00	4	$400.00
519.20	SHEET MEMBRANE WATERPROOFING, TORCH APPLIED	SY	$25.00	76	$1,902.78
529.15	REMOVAL OF STRUCTURE (5'-0" x 7'-0" X 25'-0" BOX)	EACH	$25,000.00	1	$25,000.00
540.10	PRECAST CONCRETE STRUCTURE (9'-0" X 6'-0" X 50'-0" BOX)	LS	$125,000.00	1	$125,000.00
613.06	STONE FILL, STREAM BED MATERIAL	CY	$70.00	65	$4,550.00
613.11	STONE FILL, TYPE II	CY	$70.00	50	$3,473.81
621.20	STEEL BEAM GUARDRAIL, GALVANIZED	LF	$20.00	163	$3,260.00
621.60	ANCHOR FOR STEEL BEAM RAIL	EACH	$800.00	4	$3,200.00
630.15	FLAGGERS	HR	$28.00	200	$5,600.00
635.11	MOBILIZATION/DEMOBILIZATION	LS	$35,000.00	1	$35,000.00
641.10	TRAFFIC CONTROL	LS	$10,000.00	1	$10,000.00
649.31	GEOTEXTILE UNDER STONE FILL	SY	$2.50	53	$132.50
651.15	SEED	LB	$20.00	1	$20.00
651.35	TOPSOIL	CY	$80.00	5	$400.00
653.45	FILTER BAG	EACH	$400.00	2	$800.00
653.476	SILT FENCE, TYPE II	LF	$4.00	50	$200.00
				Construction Cost	$266,264.09
				Contingency (10%)	$26,626.41
				Total	$292,890.50
				SAY	$300,000.00

Detailed Capital Budget Request Form

1. Project Details

#10

Project Name	CBR #9 – Chapel Hill Road Bridge	Life (years)	50
Project Originator	L. Wiggins	Phone	
Department	Public Works - Highway		
Desired project timing	2022 - 2023	Completion Date	2023

2. Project Description/Justification

The Chapel Hill Road (South) bridge abutments have large voids washed out by previous floods.

Project is to place concrete under abutments to reinstate solid bearing on the soil.

3. Project Cost Estimate

Daniel Construction cost estimate = $36,000.
Director to apply for Vtrans Structures Grant.

Detailed Capital Budget Request Form

1. Project Details

Project Name CBR ~~#10~~ #11 -- Elm St. Bridge Project – Engineering Life (years) 50

Project Originator L. Wiggins Phone

Department Public Works - Highway

Desired project timing 2022 - 2023 Completion Date 2023

2. Project Description/Justification

Engineering, grant application/administration of Elm St. Bridge Project. Engineering to determine best rehab or reconstruction alternative. Perform survey, geotechnical (if required), preliminary design, environmental permitting, ROW and easements (if necessary), final design and load rating.

Bridge alternatives range from deck replacement to complete replacement.

3. Project Cost Estimate

Approximate cost is $156,000. Final estimated cost to be provided by conceptual planning of 2020.

Director to apply for VTRANS Structures Grant.

Detailed Capital Budget Request Form

1. Project Details

Project Name CBR ~~#11~~ #12 -- Elm St. Bridge Project – Construction Life (years) 50

Project Originator L. Wiggins Phone

Department Public Works - Highway

Desired project timing 2023 - 2024 Completion Date 2024

2. Project Description/Justification

Construction and construction administration of the Elm St. Bridge Project. Selected bridge repair/reconstruction alternative will determine the construction cost.

Bridge alternatives range from deck replacement to complete replacement.

3. Project Cost Estimate

Approximate cost is $500,000. Final estimated cost to be provided by conceptual planning of 2020.

Director to apply for VTRANS Structures Grant.

Detailed Capital Budget Request Form

1. Project Details

Project Name CBR ~~#12~~ #13 -- Beaver Meadow Bridge #39 Project – Engineering Life (years) 50

Project Originator L. Wiggins Phone

Department Public Works - Highway

Desired project timing 2024 - 2025 Completion Date 2025

2. Project Description/Justification

Engineering, grant application/administration of Beaver Meadow Bridge #39 Project. Engineering to determine best rehab or reconstruction alternative. Perform survey, geotechnical (if required), preliminary design, environmental permitting, ROW and easements (if necessary), final design and load rating.

Bridge alternatives range from deck replacement to complete replacement.

3. Project Cost Estimate

Approximate cost is $150,000.

Director to apply for VTRANS Structures Grant.

Detailed Capital Budget Request Form

1. Project Details #14

Project Name CBR #~~13~~ -- Beaver Meadow Bridge #39 Project – Construction Life (years) 50

Project Originator L. Wiggins Phone

Department Public Works - Highway

Desired project timing 2025 - 2026 Completion Date 2026

2. Project Description/Justification

Construction and construction administration of the Beaver Meadow Bridge #39 Project. Selected bridge repair/reconstruction alternative will determine the construction cost.

3. Project Cost Estimate

Approximate cost is $700,000. Final estimated cost to be provided by engineering of 2024.

Director to apply for VTRANS Structures Grant.

Detailed Capital Budget Request Form

1. **Project Details** #15

Project Name CBR~~#14~~ – Tracy Hall Generator Replacement

Life (years) 20

Project Originator L. Wiggins Phone

Department Public Works - Buildings & Grounds

Desired project timing 2021 - 2022 Completion Date 2022

2. **Project Description/Justification**

Replace existing non-functional 100kw diesel generator with new 100kw diesel generator.

Current generator was second hand when purchased and has been rebuilt since the Town owned it. Its operation is unreliable and it has a fuel injector leak. The injector has been rebuilt several times.

If not replaced Tracy Hall could be without power for an extended period of time.

Total Cost = $49,095.

3. **Project Cost Estimate**

See Brookfield Service proposal dated 11/12/2020

Brook Field Service

Providing Shelter from the Storm

PO Box 47 Northfield, VT 05663 – Toll Free: 866–POWER–97

November 12, 2020

Town of Norwich
Larry Wiggins
300 Main Street
Norwich, VT

Subject: Tracy Hall Generator

Dear Larry,

Thanks for the opportunity to bid on your project. Please be guided by the following:

- Disconnect old diesel generator and ATS and dispose of the units.
- Install a new Blue star/John Deere or Kohler/John Deere diesel generator. (Blue Star 2 yr. warranty, Kohler 1 yr.)
  - 100kW, 120/208V
  - Sound attenuated housing
  - NFPA 110 equipped
  - Annunciator panel to be installed in main hall of building
- Install (1) new ASCO 400A Nema 3R. Automatic Transfer Switch
  - Install a condensation heater into the ATS
  - Install surge protection into the ATS.
- Provide a generator rental to run building during power cut-over.
- Freight to your site
- VT State electrical and VT building inspections and permits.
- Start-up process, of generator and programming automatic transfer switch and a building load test.
  - **$49,095.00 –installed per the scope of work above.**

Other Notes:

- We are factory authorized/trained for service for the generators that we sell.
- We are local
- Removal and replacement of crash poles and snow guard removed and re-installed by others and is not part of this quote.
- Note, windows near generator must be permanently closed. Work to be done by others.
- Brook Field Service provides 24-hour 7 day a week emergency service for our customers. We have the largest generator tech team in Vermont.
- Brook Field Service has a 40-year history of selling and servicing generators.
- Techs are Blue Star, John Deere, Briggs & Stratton, Kohler and ASCO factory trained and TQP certified by the State of VT for generators.
- The above quote is valid for 30 days from above date.
- Terms: Net 30 days from electrical install date.

If you should have any questions or comments please email or call at your earliest convenience.

Best regards,

Jim Brochhausen

Customers Name: _____

Accept Proposal and terms of payment:_____Date:_____

We provide Factory Trained Service, for what we Sell!

CONFIDENTIALITY:

This quote contains information that is privileged and confidential. Unless you are authorized, by Brook Field Service, you may not use, copy, or disclose this quote to anyone. Thank you.

Detailed Capital Budget Request Form

1. **Project Details** #16

Project Name CBR~~#15~~ – Public Works Garage Generator Replacement

Life (years) 20

Project Originator L. Wiggins Phone

Department Public Works - Buildings & Grounds

Desired project timing 2021 - 2022 Completion Date 2022

2. **Project Description/Justification**

Replace existing non-functional 100kw diesel generator with the Public Safety Building propane generator.

Current generator was second hand when purchased and has been rebuilt since the Town owned it. Its operation is unreliable and it has a fuel tank leak.

If not replaced the Public Works Garage could be without power for an extended period time.

Total Cost = $7,671

3. **Project Cost Estimate**

See Attached budgetary quote sheets from Brooke Field Services dated 11/11/2020.

Brook Field Service

Providing Shelter from the Storm

PO Box 47 Northfield, VT 05663 – Toll Free: 866–POWER–97

November 11, 2020

Town of Norwich
Larry Wiggins
300 Main Street
Norwich, VT

Subject: Town Garage Generator

Dear Larry,

Thanks for the opportunity to bid on your project. Please be guided by the following:

- Disconnect old diesel generator at town garage and dispose of the unit.
- Move current public safety generator to the town garage and electrically install it.
- Install an emergency E-Stop button on the generator.
- Install (1) new ATS Kohler model RDT, 200 amps, Nema 3R.
  - Install a condensation heater into the ATS
  - Install surge protection into the ATS.
- Provide a generator rental to run building during power cut-over.
- Trenching of propane line and fuel installation by others.
- Freight to your site
- VT State electrical Inspection and permit.
- Start-up process, of generator and programming automatic transfer switch and a building load test.
  - **$7,671.00 -installed per the scope of work above.**

Other Notes:

- We are factory authorized/trained for service for the generators that we sell.
- We are local
- Fuel and gas connection/equipment to be provided and connected by your supplier and is directly billed by them. We will coordinate with them.

- Brook Field Service provides 24-hour 7 day a week emergency service for our customers. We have the largest generator tech team in Vermont.
- Brook Field Service has a 40-year history of selling and servicing generators.
- Techs are Blue Star, John Deere, Briggs & Stratton, Kohler and ASCO factory trained and TQP certified by the State of VT for generators.
- The above quote is valid for 30 days from above date.
- Terms: Net 30 days from electrical install date.

If you should have any questions or comments please email or call at your earliest convenience.

Best regards,

Jim Brochhausen

Customers Name:_____

Accept Proposal and terms of payment:_____Date:_____

We provide Factory Trained Service, for what we Sell!

CONFIDENTIALITY:

This quote contains information that is privileged and confidential. Unless you are authorized, by Brook Field Service, you may not use, copy, or disclose this quote to anyone. Thank you.

Detailed Capital Budget Request Form

1. **Project Details**

Project Name CBR#16 (#17) -- Replace Tracy Hall underground fuel storage tank (UST) for heating fuel

Life (years) 20

Project Originator L. Wiggins

Phone

Department Public Works - Buildings & Grounds

Desired project timing 2022 - 2023

Completion Date 2023

2. **Project Description/Justification**

Replacing existing 1000 gallon underground fuel storage tank with new 1000 gallon underground fuel storage tank.

Tank Had 1968 inscribed on tank. These tanks are costly to replace but replacement before contamination is less expensive.

3. **Project Cost Estimate**

Estimated cost is $60,000. L. Wiggins estimate.

Detailed Capital Budget Request Form

1. Project Details

Project Name CBR~~#17~~ #18 – Tracy Hall Boiler Replacement Life (years) 20

Project Originator L. Wiggins Phone

Department Public Works - Buildings & Grounds

Desired project timing 2022 - 2023 Completion Date 2023

2. Project Description/Justification

Replace the two existing oil boilers in Tracy Hall.

3. Project Cost Estimate

L. Wiggins estimates $15,000.

Detailed Capital Budget Request Form

1. Project Details #19

Project Name CBR~~#18~~ – Public Work Garage – Storage Bins Life (years) 20

Project Originator L. Wiggins Phone

Department Public Works - Garage

Desired project timing 2021 - 2022 Completion Date 2021

2. Project Description/Justification

Construct aggregate storage bins at the Public Works Garage from concrete blocks.

Bins will keep pavement and gravel materials separate and reduce loss.

3. Project Cost Estimate

L. Wiggins estimates $5,000.

Detailed Capital Budget Request Form

1. **Project Details**

Project Name CBR~~#20~~ #21 – Transfer Station Building Life (years) 20

Project Originator L. Wiggins Phone

Department Public Works - Transfer Station Building

Desired project timing 2021 - 2022 Completion Date 2022

2. **Project Description/Justification**

Purchase a LaValley garage for plastic film, freon gas appliance and other item processing. See attached budgetary quote sheets LaValley Building Supply.

Plastic film needs storage and processing area. Freon gas appliance building is currently a fabric building which is in disrepair. Other items which need storage and processing (currently in other building corners) batteries, light bulbs. A hazardous waste area is required for haz mat material which is dropped off without attendants knowledge.

3. **Project Cost Estimate**

Estimate cost = $13, 000

Larry Wiggins

From: Jeff Farnsworth <jfarnsworth@lavalleys.com>
Sent: Monday, October 28, 2019 2:16 PM
To: Larry Wiggins
Subject: 16' x 22' Hudson garage

16' x 22' Hudson Garage built by Lavalley Building Supply. Building would have 2x4x8' walls with T1-11 Smartpanel for siding. 4-1/2/ 12 pitched roof with your color of shingles. 2- Vinyl single hung windows.1-Thermatru fiberglass entry door. 1-- 9'x7' Wayne Dalton 9605 metal insulated garage door.Lavalleys would also pour the slab on your prepped site,prepped to our guidelines 12" of 3/4 stone. Total without Tax is $13,000.00.Note :that could go up $300.00-$500.00 May 1st 2020. Also we would vent eaves and ridge for --$400.00 Also all trim is #2 pine we would install all Primed Pine for $300.00.I have a site prep. sheet if you would like me to send that out. Jeff

LaValley BUILDING SUPPLY, INC.

MIDDLETON BUILDING SUPPLY INC. DIPRIZIO PINE SALES INC.

Serving Builders with Quality Products & Services for over 39 Years!

We very much appreciate your order for a new garage. We will do all we possibly can to make things go smoothly.

I will be your contact person for the scheduling. I can be reached by calling Newport at (603) 863-1050 or 1-800-528-2553 or you can email me mross@lavalleys.com

Before we can begin the following items must be done:

1. You must obtain a building permit.
2. Power must be available for our carpenters. If this is not possible, we have to rent a generator and your cost is $200.00. We do have long power cords, but a 100' is the maximum practical distance. If you have any questions regarding this, please give me a call.
3. Your site must be accessible for a concrete truck and crane truck to maneuver into and must be free of any overhead power lines, trees, etc.
4. Site should be level and be approximately 2'-0" over size of garage. If your site requires a lot of fill, you may need to make it even bigger to avoid any possibility of dirt falling away from under the concrete.
5. Site MUST have an 8" to 12"- ¾" STONE BASE.
6. Your garage location should be staked out.
7. When a customer does his own concrete, he should follow a foundation plan furnished by LaValley Building Supply, Inc.
8. Please indicate where electrical panel will be (If any) so that we may leave a grounding device in the correct location.

As a precaution, whoever prepares your site should check it for level. If it were not, it would cause additional work for which there would be an additional charge.
We will not do additional work without authorization, and carelessness in preparation usually results in delay, in addition to an expense neither of us wants.
When the concrete is in, we will send our inspector to examine it.
When we've completed our contract, our inspector, Frank Fratzel, will again inspect, take pictures for our records and scrapbook, and certify to us that our job has been done in a workmanship-like manner.
If you have any questions concerning any of the above, please give me a call.

Customers signature-

Yours truly,

Michael W. Ross
LaValley Building Supply, Inc.

2021-2022 Public Works Dept Equipment **Capital Budget Requests** 11162020

	Highway		21-22	22-23	23-24	24-25	25-26	26-27
1	Freightliner dump truck Trk #4	replace 2010 truck	167,461					
2	Tank truck (used)	capital reserve request	25,000					
3	JD Grader 672	replace 2004 CAT 143h grader		315,000				
4	Holder sidewalk tractor	replace 2007 Holder			120,420			
5	2WD pick up truck Trk #13	replace 1989 pick up			26,000			
6	Freightliner dump truck Trk #8	replace 2012 truck				168,016		
7	Woodchipper						47,000	
8	Freightliner dump truck Trk #5	replace 2015 truck						168,016

2021-2022 Public Works Dept Equipment **Capital Budget Requests** 10212020

	Buildings & Grounds	21-22	22-23	23-24	24-25	25-26	26-27
9	Buildings & Grounds riding mower and bagger/cart	15000					
	Transfer Station						
10	Compactor replacement 20 yrs old in 2019		45,000				

PWD Equipment Capital Budget Requests

Fiscal Yr. 2021-2022

Dept : Public Works Dept - Highway

By: L. Wiggins

Equipment Capital Budget Request #1

1. **Capital Budget Request**

   2021 Freightliner 4WD 6 wheel dump truck to replace current 2010 Freightliner 4WD

   6 wheel dump truck

   See attached budgetary quote sheets from:

Freightliner Cab & Chassis	$119,294
and	
Viking Cives dump body, plow, wing, sander and	$68,500
Sander controls	
Estimated trade in value (Freightliner)	($25,000)

   Hydrid/electric trucks not available.
   Trade value unknown.

Total	**$167,461**

2. **Capital Budget Request Justification**

   Replace current 2010 4WD dump truck

   (cab is 2010 but dump body, etc is at least 2006)

   Truck is a front line plow truck

   Mileage = 49808 mi (10/22/2020)

   Engine was replaced in 2020

   Truck should be traded when still has some trade value

   and not so old it's routinely out of service.

3. **Financing –**

   2021-2022 budget request.
   Highway Equipment Designated Fun

Larry Wiggins

From: Bill Wiley <bwiley@advantagetruckne.com>
Sent: Friday, November 6, 2020 12:47 PM
To: Larry Wiggins
Subject: TRADE ALLOWANCE

Good Afternoon Larry,

Just wanted to get back to you with a budgetary trade allowance for your 2010 Freightliner # 4-10.

Keeping in mind that we probably won't have this truck to sell until early 2022 our allowance would be $25,000.00.

We can certainly revisit this and try and fine tune it when you get ready to place the order.

I hope this helps Larry.

Thank you,

Bill

Bill Wiley
ATG Lebanon LLC
Freightliner/Western Star
165 Heater Road
Lebanon, NH 03766
Tel. 603-443-9955
Fax 603-443-9966
Cel. 603-359-4855
bwiley@advantagetruckne.com

Larry Wiggins

From: Larry Wiggins
Sent: Friday, October 2, 2020 10:30 AM
To: 'Bill Wiley'
Subject: RE: 2021 ALL WHEEL DRIVE QUOTE

Thanks Bill
Look forward to seeing you
Larry

From: Bill Wiley <bill.wiley@fnh.com>
Sent: Friday, October 2, 2020 9:35 AM
To: Larry Wiggins <LWiggins@norwich.vt.us>
Subject: 2021 ALL WHEEL DRIVE QUOTE

Good Morning Larry,

I hope all is well.

In answer to your question on Electric Vehicles, we do not offer any at this time. Freightliner does have a delivery truck model and a highway tractor model with test fleets now. But I think it will several years before we have any Vocational model trucks available for sale. I will let you know any updated information as it becomes available.

Here is a quote for a model year 2022 Freightliner 108SD All-Wheel Drive cab & chassis for the Highway Department.

I will call you next week to schedule a time to come over and look at your trade-in.

Thank you,

Bill

Bill Wiley
Sales Manager
Freightliner of New Hampshire, Inc.
165 Heater Road
Lebanon, NH 03766
Tel. 603-443-9955
Fax 603-443-9966
Cel. 603-359-4855
bill.wiley@fnh.com

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

A proposal for
NORWICH TOWN OF

Prepared by
FREIGHTLINER OF NEW HAMPSHIRE, INC.
Bill Wiley

Oct 02, 2020

Freightliner 108SD

4WD

Components shown may not reflect all spec'd options and are not to scale

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

SPECIFICATION PROPOSAL

Data Code	Description	Weight Front	Weight Rear	Retail Price
Price Level				
PRL-23D	SD PRL-23D (EFF:01/21/20)			STD
Data Version				
DRL-036	SPECPRO21 DATA RELEASE VER 036			N/C
Vehicle Configuration				
001-176	108SD CONVENTIONAL CHASSIS	6,829	3,748	$122,790.00
004-222	2022 MODEL YEAR SPECIFIED			N/C
002-004	SET BACK AXLE - TRUCK			STD
019-001	TRAILER TOWING PROVISION AT END OF FRAME FOR TRUCK	10	10	$1,025.00
003-001	LH PRIMARY STEERING LOCATION			STD
General Service				
AA1-003	TRUCK/TRAILER CONFIGURATION			N/C
AA6-002	DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES)			STD
A85-010	UTILITY/REPAIR/MAINTENANCE SERVICE			N/C
A84-1GM	GOVERNMENT BUSINESS SEGMENT			N/C
AA4-010	DIRT/SAND/ROCK COMMODITY			N/C
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS			STD
AB1-008	MAXIMUM 8% EXPECTED GRADE			STD
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE			STD
995-1A0	FREIGHTLINER SD VOCATIONAL WARRANTY			STD
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 18000.0 lbs			
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 27120.0 lbs			
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 45120.0 lbs			
A70-99D	EXPECTED GROSS COMBINATION WEIGHT : 80000.0 lbs			

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

	Data Code	Description	Weight Front	Weight Rear	Retail Price
Truck Service					
	AA3-018	FRONT PLOW/END DUMP BODY			N/C
	A88-99D	EXPECTED TRUCK BODY LENGTH : 0.0 ft			
	A89-99D	BRAKING-EXPECTED CAB TO BODY CLEARANCE : 5.0 in			
	AF3-2A4	TENCO USA, INC.			N/C
Tractor Service					
	AA2-005	FLATBED TRAILER			N/C
	AH6-001	SINGLE (1) TRAILER			N/C
Engine					
	101-3BN	CUM L9 300 HP @ 2200 RPM, 2200 GOV RPM, 860 LB/FT @ 1200 RPM			$1,517.00
Electronic Parameters					
	79A-055	55 MPH ROAD SPEED LIMIT			N/C
	79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT			N/C
	79G-104	5 MINUTE IDLE SHUTDOWN - TIMER RESET WITH CLUTCH AND SERVICE BRAKE			N/C
	79K-007	PTO MODE ENGINE RPM LIMIT - 1100 RPM			N/C
	79M-001	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED			N/C
	79P-002	PTO RPM WITH CRUISE SET SWITCH - 700 RPM			N/C
	79Q-003	PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM			N/C
	79S-001	PTO MODE CANCEL VEHICLE SPEED - 5 MPH			N/C
	79U-007	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND			N/C
N	80G-002	PTO MINIMUM RPM - 700			N/C
	80J-002	REGEN INHIBIT SPEED THRESHOLD - 5 MPH			N/C
Engine Equipment					
	99C-021	2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/GHG21 CONFIGURATION			N/C
	99D-009	2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LEFT SIDE OF HOOD)			$109.00
	13E-005	OIL PAN FOR AWD AND AWD CONVERSIONS			$1,822.00
	105-015	OIL FILL AND DIPSTICK LOCATED FOR ENHANCED SERVICEABILITY			$83.00

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

Data Code	Description	Weight Front	Weight Rear	Retail Price
014-1C5	SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER AND INSIDE/OUTSIDE AIR WITH SNOW DOOR	10		$578.00
124-1D7	DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE			STD
292-235	(2) DTNA GENUINE, FLOODED STARTING, MIN 2000CCA, 370RC, THREADED STUD BATTERIES			STD
290-017	BATTERY BOX FRAME MOUNTED			STD
281-001	STANDARD BATTERY JUMPERS			STD
282-001	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB			$18.00
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN			STD
289-001	NON-POLISHED BATTERY BOX COVER			STD
87P-001	CAB AUXILIARY POWER CABLE	5		$62.00
293-058	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT	8		$206.00
295-029	POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	2		$88.00
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE			STD
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM			STD
126-1AN	C-BRAKE BY JACOBS WITH HIGH MED LOW BRAKE WITH BRAKE LAMPS	80		$2,574.00
016-1C2	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	30	25	$816.00
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH			STD
239-032	11 FOOT 00 INCH (132 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT			N/C
233-017	STANDARD CURVE BRIGHT UPPER STACK(S)			$123.00
237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP			N/C
23U-001	6 GALLON DIESEL EXHAUST FLUID TANK	-35	-10	N/C
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL			($17.00)
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING			STD

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

Data Code	Description	Weight Front	Weight Rear	Retail Price
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION			STD
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP			STD
242-001	STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD			$48.00
273-018	HORTON DRIVEMASTER ADVANTAGE ON/OFF FAN DRIVE			STD
276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED			STD
110-003	CUMMINS SPIN ON FUEL FILTER			STD
118-008	COMBINATION FULL FLOW/BYPASS OIL FILTER			STD
266-104	1115 SQUARE INCH ALUMINUM RADIATOR			STD
103-039	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT			STD
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT			STD
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES			STD
270-016	RADIATOR DRAIN VALVE			STD
360-013	1350 ADAPTER FLANGE FOR FRONT PTO PROVISION	20		$487.00
136-011	PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER	4		$92.00
140-022	CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR			$6.00
132-004	ELECTRIC GRID AIR INTAKE WARMER			STD
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH			STD
Transmission				
342-584	ALLISON 3500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION			($75.00)
Transmission Equipment				
343-339	ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, HS, MH AND TRV			STD
84B-012	ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES			N/C
84C-022	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 5, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

	Data Code	Description	Weight Front	Weight Rear	Retail Price
	84D-020	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 3, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C
	84E-017	S5 PERFORMANCE LIMITING PRIMARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C
	84F-016	S5 PERFORMANCE LIMITING SECONDARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C
	84G-013	2100 RPM PRIMARY MODE SHIFT SPEED			N/C
	84H-013	2100 RPM SECONDARY MODE SHIFT SPEED			N/C
	84N-200	FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED			STD
	84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES			STD
	84V-001	DIRECTION CHANGE ENABLED WITH MULTIPLEXED SERVICE BRAKES - ALLISON 5TH GEN TRANSMISSIONS			STD
	353-023	VEHICLE INTERFACE WIRING CONNECTOR WITHOUT BLUNT CUTS, AT END OF FRAME			$53.00
	34C-001	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED			$23.00
	341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN			STD
	345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED			STD
	97G-004	TRANSMISSION PROGNOSTICS - ENABLED 2013			STD
	370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK			STD
	346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK			STD
	373-026	MARMON-HERRINGTON MVG-1600 2-SPEED LONG DROP TRANSFER CASE	500	200	$21,255.00
	376-001	TRANSFER CASE SHIFT CONTROLS WITH TRANSFER CASE PTO ON/OFF SWITCH WHEN APPLICABLE			N/C
	35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)			STD
Front Axle and Equipment					
*	400-1H0	MT-22 23,000# SINGLE FRONT DRIVE AXLE	2,080		$29,464.00
	398-611	6.11 FRONT AXLE RATIO			N/C

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

	Data Code	Description	Weight Front	Weight Rear	Retail Price
	389-073	MXL 17T MERITOR EXTENDED LUBE FRONT STEERING AXLE DRIVELINE WITH HALF ROUND YOKES	10		N/C
	402-027	MARMON-HERRINGTON 16.5X7 CAM FRONT BRAKES			N/C
	403-002	NON-ASBESTOS FRONT BRAKE LINING			STD
	419-019	MARMON-HERRINGTON CAST IRON FRONT BRAKE DRUMS			N/C
	427-001	FRONT BRAKE DUST SHIELDS			N/C
	409-006	FRONT OIL SEALS			STD
	416-022	STANDARD SPINDLE NUTS FOR ALL AXLES			STD
	405-013	MARMON-HERRINGTON AUTOMATIC FRONT SLACK ADJUSTERS			N/C
	406-001	STANDARD KING PIN BUSHINGS			STD
	536-055	TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR	130		N/C
	539-003	POWER STEERING PUMP			STD
	534-003	4 QUART POWER STEERING RESERVOIR			N/C
	533-001	OIL/AIR POWER STEERING COOLER			N/C
	40T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 FRONT AXLE LUBE			$17.00
Front Suspension					
	620-013	18,000# TAPERLEAF FRONT SUSPENSION	200		$1,428.00
	619-002	THREADED SPRING PINS AND BUSHINGS - FRONT SUSPENSION			($353.00)
	62G-998	NO FRONT SUSPENSION OPTIONS			STD
	410-001	FRONT SHOCK ABSORBERS			STD
Rear Axle and Equipment					
	420-024	RS-30-185 30,000# U-SERIES SINGLE REAR AXLE		275	$7,269.00
	421-614	6.14 REAR AXLE RATIO			N/C
	424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING			STD
	386-073	MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	20	20	STD
	382-073	MXL 17T MERITOR EXTENDED LUBE INTERTRANSMISSION DRIVELINE WITH HALF ROUND YOKES			N/C
	452-001	DRIVER CONTROLLED TRACTION DIFFERENTIAL - SINGLE REAR AXLE		20	$734.00
	878-018	(1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR VALVE FOR SINGLE DRIVE AXLE			N/C

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

	Data Code	Description	Weight Front	Weight Rear	Retail Price
	87B-004	BLINKING LAMP WITH EACH MODE SWITCH, DIFFERENTIAL UNLOCK WITH IGNITION OFF, ACTIVE <5 MPH			N/C
	423-010	MERITOR 16.5X7 P CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, CAST SHOES		20	N/C
	433-002	NON-ASBESTOS REAR BRAKE LINING			STD
	434-011	BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S)			N/C
	451-018	WEBB CAST IRON REAR BRAKE DRUMS		50	N/C
	425-002	REAR BRAKE DUST SHIELDS		5	$56.00
	440-006	REAR OIL SEALS			STD
	426-1B8	BENDIX EVERSURE LONGSTROKE 36/36 1-DRIVE AXLE SPRING PARKING CHAMBERS			$175.00
	428-003	HALDEX AUTOMATIC REAR SLACK ADJUSTERS			$47.00
	41T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE			STD
	42T-001	STANDARD REAR AXLE BREATHER(S)			STD
Rear Suspension					
	622-1DF	30,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD		160	$463.00
	621-001	SPRING SUSPENSION - NO AXLE SPACERS			STD
	431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP			STD
	623-005	FORE/AFT CONTROL RODS			STD
Brake System					
	490-100	WABCO 4S/4M ABS			STD
	871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES			STD
	904-001	FIBER BRAID PARKING BRAKE HOSE			STD
	412-001	STANDARD BRAKE SYSTEM VALVES			STD
	46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM			STD
	413-002	STD U.S. FRONT BRAKE VALVE			STD
	432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE			STD
	480-088	WABCO SYSTEM SAVER HP WITH INTEGRAL AIR GOVERNOR AND HEATER			STD
	479-003	AIR DRYER MOUNTED INBOARD ON LH RAIL			N/C
	460-093	STEEL AIR BRAKE RESERVOIRS; CUSTOMER ACCEPTS TANKS MOUNTED PERPENDICULAR TO RAIL	10	10	$390.00

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

Data Code	Description	Weight Front	Weight Rear	Retail Price
477-004	PULL CABLES ON ALL AIR RESERVOIR(S)			$3.00
Trailer Connections				
914-025	AIR CONNECTIONS TO END OF FRAME WITH GLAD HANDS FOR TRUCK AND DUST COVERS			$18.00
296-010	PRIMARY CONNECTOR/RECEPTACLE WIRED FOR SEPARATE STOP/TURN, ABS CENTER PIN POWERED THROUGH IGNITION			N/C
297-001	SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE MOUNTED END OF FRAME			N/C
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT			STD
331-001	SUPPLEMENTAL J560 7-WAY RECEPTACLE LOCATED WITH PRIMARY RECEPTACLE			$91.00
Wheelbase & Frame				
545-430	4300MM (169 INCH) WHEELBASE			N/C
546-102	7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI	170	150	$720.00
548-803	BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW			N/C
552-030	1600MM (63 INCH) REAR FRAME OVERHANG			STD
55W-006	FRAME OVERHANG RANGE: 61 INCH TO 70 INCH			N/C
549-002	24 INCH INTEGRAL FRONT FRAME EXTENSION	140	-20	$4.00
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 103.74 in			
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 98.74 in			
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 297.44			
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 43.19 in			N/C
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 131.69 in			N/C
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 103.45 in			
553-001	SQUARE END OF FRAME			STD
550-001	FRONT CLOSING CROSSMEMBER			STD
559-003	LIGHTWEIGHT HEAVY DUTY ALUMINUM ENGINE CROSSMEMBER	-12		$50.00
562-041	HEAVY DUTY STEEL 6 PIECE BOLTED CONSTRUCTION MIDSHIP CROSSMEMBER(S)			$74.00
572-038	REARMOST CROSSMEMBER MOUNTED WITH LAST CROSSMEMBER 13 INCHES FROM END OF FRAME			$4.00

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

	Data Code	Description	Weight Front	Weight Rear	Retail Price
*	565-002	HEAVY DUTY SUSPENSION CROSSMEMBER		10	N/C
Chassis Equipment					
	556-997	OMIT FRONT BUMPER, CUSTOMER INSTALLED SPECIAL BUMPER, DOES NOT COMPLY WITH FMCSR 393.203	-110		($488.00)
	551-002	HUCK-SPIN ROUND COLLAR CHASSIS FASTENERS			$369.00
Fuel Tanks					
	204-152	70 GALLON/264 LITER ALUMINUM FUEL TANK - LH	5		$72.00
	218-006	25 INCH DIAMETER FUEL TANK(S)			STD
	215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS			STD
	212-007	FUEL TANK(S) FORWARD			STD
	664-001	PLAIN STEP FINISH			STD
	205-001	FUEL TANK CAP(S)			STD
	122-1J1	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR, HAND PRIMER AND 12 VOLT PREHEATER	-5		$51.00
	216-020	EQUIFLO INBOARD FUEL SYSTEM			STD
	202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE			STD
Tires					
	093-1RJ	MICHELIN X WORKS Z 315/80R22.5 20 PLY RADIAL FRONT TIRES	100		$474.00
	094-0E3	MICHELIN XDS 12R22.5 16 PLY RADIAL REAR TIRES		156	$968.00
*	510-0E3	MICHELIN XDS 12R22.5 16 PLY RADIAL SPARE TIRE		125	$959.00
*	508-0E3	MICHELIN XDS 12R22.5 16 PLY RADIAL ADDITIONAL SPARE TIRE		131	$959.00
Hubs					
	418-022	MARMON-HERRINGTON IRON FRONT HUBS			N/C
	450-014	WEBB IRON REAR HUBS		280	N/C
Wheels					
	502-1CR	ALCOA 89652X 22.5X9.00 335-HUB PILOT 6.02 INSET ALUMINUM DISC FRONT WHEELS	-32		$444.00
	505-356	ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB PILOT 5.99 INSET ALUMINUM REAR WHEELS		-56	$792.00

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

	Data Code	Description	Weight Front	Weight Rear	Retail Price
*	511-356	ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB PILOT 5.99 INSET ALUMINUM SPARE WHEEL		103	$394.00
*	51A-356	ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB PILOT 5.99 INSET ALUMINUM ADDITIONAL SPARE WHEEL		70	$394.00
	498-011	NYLON WHEEL GUARDS FRONT AND REAR ALL INTERFACES			$29.00
Cab Exterior					
	829-1A5	108 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB			STD
	650-008	AIR CAB MOUNTING			STD
	648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE			STD
	667-037	SHORT FENDER WITH MUDFLAP			$141.00
	754-017	BOLT-ON MOLDED FLEXIBLE FENDER EXTENSIONS	10		$115.00
	678-001	LH AND RH GRAB HANDLES			STD
	645-002	BRIGHT FINISH RADIATOR SHELL/HOOD BEZEL			$253.00
	646-042	STATIONARY BLACK GRILLE WITH BRIGHT ACCENTS			$88.00
	65X-003	CHROME HOOD MOUNTED AIR INTAKE GRILLE			$15.00
	644-006	FIBERGLASS HOOD WITH ACCESS HATCHES	10		$682.00
	727-066	DUAL 26 INCH RECTANGULAR POLISHED ALUMINUM AIR HORNS ROOF MOUNTED	4		$79.00
	726-001	SINGLE ELECTRIC HORN			STD
	728-002	DUAL HORN SHIELDS			N/C
	657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME			STD
	78G-002	KEY QUANTITY OF 2			STD
	575-001	REAR LICENSE PLATE MOUNT END OF FRAME			STD
*	312-080	HALOGEN COMPOSITE HEADLIGHTS WITH BRIGHT BEZELS; NON-COMPLIANT WITH FMVSS 108 HEADLIGHT HEIGHT REQUIREMENT			N/C
	302-001	(5) AMBER MARKER LIGHTS			STD
	294-017	INTEGRAL STOP/TAIL/BACKUP LIGHTS WITH 7 EXTRA FEET OF WIRE MOUNTED AT END OF FRAME			$16.00
	300-015	STANDARD FRONT TURN SIGNAL LAMPS			STD
	744-1BM	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS			$140.00
	797-001	DOOR MOUNTED MIRRORS			STD
	796-001	102 INCH EQUIPMENT WIDTH			STD

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

	Data Code	Description	Weight Front	Weight Rear	Retail Price
	743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS			N/C
	74B-1B4	RH AND LH 8 INCH HEATED STAINLESS STEEL FENDER MOUNTED CONVEX MIRRORS WITH TRIPOD BRACKETS	12		$281.00
	729-001	STANDARD SIDE/REAR REFLECTORS			STD
	764-010	COMPOSITE EXTERIOR SUN VISOR	10		$247.00
	768-043	63X14 INCH TINTED REAR WINDOW			STD
	661-004	TINTED DOOR GLASS LH AND RH WITH TINTED OPERATING WING WINDOWS			STD
	654-027	RH AND LH ELECTRIC POWERED WINDOWS, PASSENGER SWITCHES ON DOOR(S)	4		$218.00
	769-002	LOWER RH DOOR WINDOW WITH FRESNEL LENS	7		$206.00
	663-013	1-PIECE SOLAR GREEN GLASS WINDSHIELD			STD
	659-007	8 LITER (2 GAL) WINDSHIELD WASHER RESERVOIR, CAB MOUNTED, WITHOUT FLUID LEVEL INDICATOR			STD
Cab Interior					
	707-1AK	OPAL GRAY VINYL INTERIOR			STD
	706-026	MOLDED PLASTIC DOOR PANEL WITHOUT VINYL INSERT WITH ALUMINUM KICKPLATE LOWER DOOR			$27.00
	708-026	MOLDED PLASTIC DOOR PANEL WITHOUT VINYL INSERT WITH ALUMINUM KICKPLATE LOWER DOOR			$27.00
	772-006	BLACK MATS WITH SINGLE INSULATION			STD
	785-001	DASH MOUNTED ASH TRAYS AND LIGHTER			($2.00)
	691-998	NO FORWARD ROOF MOUNTED CONSOLE			($12.00)
	696-012	CENTER STORAGE CONSOLE MOUNTED ON BACKWALL	20		$26.00
	742-007	(2) CUP HOLDERS LH AND RH DASH			STD
	680-007	GRAY/CHARCOAL WING DASH			$387.00
	860-004	SMART SWITCH EXPANSION MODULE			$196.00
	720-003	5 LB. FIRE EXTINGUISHER	10		$60.00
	700-002	HEATER, DEFROSTER AND AIR CONDITIONER			STD
	701-008	STANDARD HVAC DUCTING WITH SNOW SHIELD FOR FRESH AIR INTAKE			$31.00
	703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH			STD
	170-019	STANDARD HEATER PLUMBING WITH BALL SHUTOFF VALVES			$37.00

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

Data Code	Description	Weight Front	Weight Rear	Retail Price
130-041	VALEO HEAVY DUTY A/C REFRIGERANT COMPRESSOR			STD
702-002	BINARY CONTROL, R-134A			STD
739-034	PREMIUM INSULATION			$145.00
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES			STD
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM			STD
324-011	DOME DOOR ACTIVATED LH AND RH, DUAL READING LIGHTS, FORWARD CAB ROOF			$63.00
655-005	LH AND RH ELECTRIC DOOR LOCKS			$36.00
284-023	(1) 12 VOLT POWER SUPPLY IN DASH			STD
722-002	TRIANGULAR REFLECTORS WITHOUT FLARES	10		$24.00
756-1D9	PREMIUM HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 3 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION, FORWARD AND REAR CUSHION TILT, ADJUSTABLE SHOCK ABSORBER	70		$414.00
760-1DC	BASIC HIGH BACK NON SUSPENSION PASSENGER SEAT			STD
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS			STD
758-014	BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER			$2.00
761-014	BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER			$4.00
763-101	BLACK SEAT BELTS			STD
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN	10		$478.00
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL			STD
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS			STD
Instruments & Controls				
732-004	GRAY DRIVER INSTRUMENT PANEL			STD
734-004	GRAY CENTER INSTRUMENT PANEL			STD
870-001	BLACK GAUGE BEZELS			STD
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM			STD
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES			STD
198-025	INTAKE MOUNTED AIR RESTRICTION INDICATOR WITHOUT GRADUATIONS			STD
149-017	ELECTRONIC CRUISE CONTROL WITH SWITCHES ON AUXILIARY GAUGE PANEL (B DASH PANEL)			$3.00

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

Data Code	Description	Weight Front	Weight Rear	Retail Price
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY			STD
811-042	ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED			STD
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH			STD
844-001	2 INCH ELECTRIC FUEL GAUGE			STD
148-003	PROGRAMMABLE RPM CONTROL - ELECTRONIC ENGINE			STD
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE			STD
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE			STD
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY			STD
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE			STD
679-001	OVERHEAD INSTRUMENT PANEL			$74.00
35M-001	SMARTPLEX HUB MODULE WITH OVERHEAD SWITCH MOUNTING, DRIVER SIDE ONLY (6 SWITCH SLOTS)	44		$1,354.00
746-115	AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH AND USB AND AUXILIARY INPUTS, J1939	10		$490.00
747-001	DASH MOUNTED RADIO			N/C
750-002	(2) RADIO SPEAKERS IN CAB			N/C
753-001	AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF			$23.00
748-001	POWER AND GROUND STUDS IN/UNDER DASH			$11.00
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER			STD
817-008	STANDARD VEHICLE SPEED SENSOR WITH ADDITIONAL SIGNAL FOR CUSTOMER USE LOCATED BETWEEN DRIVER AND PASSENGER SEATS			$10.00
812-001	ELECTRONIC 3000 RPM TACHOMETER			STD
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP			STD
44R-006	6 ON/OFF LATCHING SMARTPLEX SWITCHES			$73.00
482-001	BW TRACTOR PROTECTION VALVE			N/C
883-001	TRAILER HAND CONTROL BRAKE VALVE			N/C
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY			STD

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

	Data Code	Description	Weight Front	Weight Rear	Retail Price
	660-001	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY AND ARCTIC TYPE BLADES			$17.00
	304-039	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH AND DUAL CONNECTORS AND SWITCH FOR CUSTOMER FURNISHED SNOW PLOW LIGHTS, LOW BEAMS OFF WITH HIGH BEAMS			$214.00
	882-021	TWO VALVE PARKING BRAKE SYSTEM WITH DASH VALVE CONTROL AUTONEUTRAL AND WARNING INDICATOR			$13.00
	299-013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE			STD
	298-039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS			STD
Design					
	065-000	PAINT: ONE SOLID COLOR			STD
Color					
	980-2PW	CAB COLOR A: L0662EY SCHOOL BUS YELLOW ELITE EY			N/C
	986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT			STD
	976-995	SUNVISOR PAINTED SAME AS CAB COLOR A			N/C
	963-003	STANDARD E COAT/UNDERCOATING			STD
Certification / Compliance					
	996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS			STD
Secondary Factory Options					
*	99X-019	OBD 2019 MISFIRE MONITORING			N/C
Raw Performance Data					
	AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 98.74 in			
	AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 103.45 in			
Sales Programs					
		NO SALES PROGRAMS HAVE BEEN SELECTED			

TOTAL VEHICLE SUMMARY

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

Adjusted List Price

Adjusted List Price **	$206,460.00

Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight*	10400 lbs	5482 lbs	15882 lbs
Dealer Installed Options	0 lbs	0 lbs	0 lbs
Total Weight*	10400 lbs	5482 lbs	15882 lbs

ITEMS NOT INCLUDED IN ADJUSTED LIST PRICE

Other Factory Charges

PMV-021	GHG21 ENHANCEMENT PRICE	$510.00
RAG-020	CUMMINS TARIFF CHARGE - $205	$205.00
P73-2FT	STANDARD DESTINATION CHARGE	$2,200.00

Dealer Installed Options

		Weight Front	Weight Rear	Price
11113	FURNISH TWO EXTRA ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB PILOT 5.99 INSERT ALUMINUM WHEELS	0	0	$800.00
11114	SUPPLY COMPLETE SERVICE AND PARTS MANUALS	0	0	$350.00
11116	PAINT TOP OF HOOD FLAT BLACK	0	0	$350.00
11111	INSTALL TIMBREN KITS FOR FRONT AXLE	0	0	$1,100.00
11117	RADIO SWAP BY BURLINGTON COMMUNICATIONS CENTER	0	0	$500.00
	Total Dealer Installed Options	0 lbs	0 lbs	$3,100.00

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

(+) Weights shown are estimates only.
If weight is critical, contact Customer Application Engineering.
(**) Prices shown do not include taxes, fees, etc... "Net Equipment Selling Price" is located on the Quotation Details Proposal Report.

(***) All cost increases for major components (Engines, Transmissions, Axles, Front and Rear Tires) and government mandated requirements, tariffs, and raw material surcharges will be passed through and added to factory invoices.

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

QUOTATION

108SD CONVENTIONAL CHASSIS

- SET BACK AXLE - TRUCK
- CUM L9 300 HP @ 2200 RPM, 2200 GOV RPM, 860 LB/FT @ 1200 RPM
- ALLISON 3500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
- RS-30-185 30,000# U-SERIES SINGLE REAR AXLE
- 30,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD
- MT-22 23,000# SINGLE FRONT DRIVE AXLE
- 18,000# TAPERLEAF FRONT SUSPENSION
- 108 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
- 4300MM (169 INCH) WHEELBASE
- 7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI
- 1600MM (63 INCH) REAR FRAME OVERHANG
- BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW

			PER UNIT		TOTAL
VEHICLE PRICE	**TOTAL # OF UNITS (1)**	$	116,194	$	116,194
EXTENDED WARRANTY		$	0	$	0
DEALER INSTALLED OPTIONS		$	3,100	$	3,100
CUSTOMER PRICE BEFORE TAX		**$**	***119,294***	**$**	***119,294***
TAXES AND FEES					
TAXES AND FEES		$	0	$	0
OTHER CHARGES		$	0	$	0
TRADE-IN					
TRADE-IN ALLOWANCE		$	(0)	$	(0)
BALANCE DUE	**(LOCAL CURRENCY)**	**$**	**119,294**	**$**	**119,294**

COMMENTS:
Projected delivery on ___ / ___ / ___ provided the order is received before ___ / ___ / ___.

APPROVAL:
Please indicate your acceptance of this quotation by signing below:

Customer: X_____ Date: ___ / ___ / ___.

Daimler Truck Financial
Financing that works for you.

See your local dealer for a competitive quote from Daimler Truck Financial, or contact us at Information@dtfoffers.com.
Daimler Truck Financial offers a variety of finance, lease and insurance solutions to fit your business needs. For more information about our products and services, visit our website at www.daimler-truckfinancial.com.

Cives Corporation, dba
Viking Cives (USA)
14331 Mill Street
Harrisville, NY 13648
Phone: (315) 543-2321
Fax: (315) 543-2366
www.vikingcives.com

QUOTATION

Quote ID: 90010

Fall '08 Factory Install Catalog

Customer: TOWN OF NORWICH
Contact: Larry Wiggins
Address: 300 MAIN STREET
NORWICH, VT 05055

Phone: 802-649-2209
Fax:
Attn: Larry Wiggins

6 WHL DUMP
TWO WAY

Quote Number: 90010
Quote Date: 09/23/2020
Quote valid until: 06/23/2021
For:
Terms: Net 30 Days
Salesperson: Mike Murray
FOB: Williston, VT

QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
1	Power Tilt Hitch w/Wing Mount and Twin Chain Tilt	$0.00	$0.00
1	FAH33 Hydraulic Front Mast Assembly w/Ribbed Slide	$0.00	$0.00
1	Full Trip Hinge – 10 Degree w/Lockout	$0.00	$0.00
1	H1059V Rear Shelving Support w/Quick Detach	$0.00	$0.00
1	120WHD Wing	$0.00	$0.00
1	HD Full Trip Hydraulic Arms (Cushion Spring Lower)	$0.00	$0.00
1	Sabre Blades	$0.00	$0.00
1	Carbide Moldboard Shoes (Pair)	$0.00	$0.00
1	R1142FE Full Trip Reversing Moldboard	$0.00	$0.00
1	PRR Hydraulic Ram Reversing Push Frame w/Cushion Valve Relief	$0.00	$0.00
1	Full Trip Compression Spring Arms	$0.00	$0.00
1	Three Chain Level Lift	$0.00	$0.00
1	Standard Push Lug Swivel	$0.00	$0.00
1	HD Sabre Blades	$0.00	$0.00
1	Rubber Deflector	$0.00	$0.00
1	Front Mounted Large Volume Pump w/Shutdown	$0.00	$0.00
1	Behind Cab Mounted Oil Reservoir	$0.00	$0.00
1	Nine Section Load Sharing/Proportional Implement/Spreader Valve in Enclosure	$0.00	$0.00
1	Cable Actuated Implement Controls w/Front and Rear (2) Remotes	$0.00	$0.00
1	Cirus EZ Spread 2 Electronic Spreader Control	$0.00	$0.00
1	Stainless Steel Hydraulic Piping to the Front and Rear	$0.00	$0.00
1	PLHW10' BiDi Radius Body w/Front Cross Conveyor and Rear Discharge	$0.00	$0.00
1	¼" AR450 Floor	$0.00	$0.00
1	3/16" Corten Front and Radius Sides	$0.00	$0.00
1	Tailgate w/Air Release	$0.00	$0.00
1	½ Cab Shield	$0.00	$0.00
1	DA Telescopic Hoist and Rear Hinge w/Integral Dump Locks	$0.00	$0.00
1	Hydraulic Feed Gate	$0.00	$0.00
1	Ladder	$0.00	$0.00
1	Shovel Holder and 30" Stainless Steel Bawer Tool Box	$0.00	$0.00
1	Electric Load Cover w/30 Degree Aluminum Arms and Mesh Tarp	$0.00	$0.00
1	Pintle Plate w/20 Ton Hook, D-Rings, and Electrical Plug	$0.00	$0.00
1	Front and Rear Mud Flaps w/Anti Sails on the Front Flaps	$0.00	$0.00
1	**Shot Blasted, Zinc Primed, Epoxy Primed, and High Temperature Baked**	$0.00	$0.00
1	**Painted Dupont Imron Yellow and High Temperature Baked**	$0.00	$0.00

Cives Corporation, dba
Viking Cives (USA)
14331 Mill Street
Harrisville, NY 13648
Phone: (315) 543-2321
Fax: (315) 543-2366
www.vikingcives.com

QUOTATION

Quote ID: 90010

Fall '08 Factory Install Catalog

QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
1	LED Cab Shield (4) and LED Heated Corner Post Mounted Strobe System	$0.00	$0.00
1	LED Heated Stop/Tail/Turns, LED Heated Back Ups, and LED Markers	$0.00	$0.00
1	LED Heated Plow Lights	$0.00	$0.00
5	LED Spot Lights (3+2 Heated in Stainless Guards)	$0.00	$0.00
		Quote Total:	$68,500.00

The following options may be added:

QUANTITY	DESCRIPTION	PRICE EACH	AMOUNT
OPT		$0.00	$0.00

Customer must fill out the information below before the order can be processed...

Accepted by:	
Date:	
P.O. number:	

The price and terms on this quotation are not subject to verbal changes or other agreements unless approved in writing by the Home Office of the Seller. All quotations and agreements are contingent upon strikes, accidents, fires, availability of material and all other causes beyond our control. Prices are based on costs and conditions existing on date of quotation and are subject to change by the Seller before final acceptance.

- Typographical and stenographic errors subject to corrections. Purchaser agrees to accept either overage or shortage not in excess of ten percent to be charged pro-rata. Purchaser assumes liability for patent and copyright infringement when goods are mode to Purchaser's specifications. When quotation specifies material to be furnished by the purchaser, ample allowance must be made for reasonable spoilage and material must be of suitable quality to facilitate efficient production.
- Conditions not specifically stated herein shall be governed by the established trade customs. Terms inconsistent with those stated herein which may appear on Purchaser's formal order will not be binding on the Seller.
- Unless otherwise stated, Installation charges do not include modifications to exhaust systems, cab protectors or bumpers.

PWD Equipment Capital Budget Requests

Fiscal Yr. 2021-2022

Dept: Public Works Dept - Highway

By: L. Wiggins

Equipment Capital Budget Request #2

1. **Capital Budget Request**
   Request $25,000 capital reserve fund to replace current tank truck (Trk #3) with used tank truck or a cab and chassis. Propose to install current tank and spray assembly on used cab and chassis.
   Hydrid trucks not available.
   Trade value unknown.

2. **Capital Budget Request Justification**

   Current tank truck is 1981 Ford L900.

   DPW has made numerous repairs but due to truck's age parts are difficult,

   if not impossible, to obtain. Truck is currently out of service.

   Backup tank (from Innovative) is ½ size of the tank truck and is manually operated.

   It will therefore take twice as long to apply dust control.

   Norwich has 46 miles of gravel roads.

3. **Financing –**

   2021-2022 budget request.
   Highway Equipment Designated Fund

PWD Equipment Capital Budget Requests

Fiscal Yr. 2022-2023

Dept: Public Works Dept - Highway

By: L. Wiggins

Capital Budget Request #3 – JD Grader 672

1. **Capital Budget Request**
   Highway Dept. Grader to replace CAT 143 grader.
   See attached budgetary quote sheets from:
   Nortrax sheet $315,000

   Hydrid grader not available.
   Trade value of CAT 143 unknown.

2. **Capital Budget Request Justification**
   Current CAT 143 is 2004 and therefore 15 yrs. old. It has 1950 hours.
   Current grader will be 20 years old when replaced.
   This grader has historically been used on a regular basis.
   If this grader is not replaced, the department will have one grader to maintain all roads.
   Since it appears the residents demand smooth roads on a daily basis, two graders are required.
   Miles of gravel roads = 46

3. **Financing** – 2022-2023 budget request.

   Highway Equipment Designated Fund.

MILTON CAT
One (1) New 2020 Caterpillar 140AWD Motor Grader
Standard and Optional Equipment, Town of Norwich, VT

140AWD Motor Grader
Caterpillar C9.3, 9.3 Liter, VHP 192-255 SAE J1349 Net HP Turbocharged, Air/Air Aftercooled Tier 4i Diesel Engine, with 920 ft lb of Torque
Engine Precleaner
Ether Start Aid
Extended Life Anti-Freeze, Electric Coolant Heater
Direct Drive, 8 Speeds Forward & 6 Speeds Reverse Powershift Transmission, with Autoshift
Four (4) Working Gears Below Seven (7) mph
Transmission Bottom Guards
Rear Tandem Drive, with Locking Rear Axle
17.5-25 Michelin Snow Plus Radials, on Multi Piece Wheels
2.0" Pitch Tandem Drive Chains
Outboard Hydraulic Wet Disk Brakes (left and right sides independent), with Secondary Braking
Secondary Steering
Spring Applied/Hydraulically Released Parking Brake
Deluxe Cab with AC/Heater/Pressurizer with Window Ducting and Rear Defroster Fan
Left and Right Cab Door with Wipers
Side Cab Windows with Wipers, Rear Window Wipers/Washers
Deluxe Fabric Air Suspension Seat
Deluxe Floor Mat
Deluxe Monitor/Alarm System
Side-Front, Side and Rear Windshield Wipers/Washers
Dual Outside Heated Mirrors, Single Inside Rear View Mirror
Rear View Camera
Anti-Glare Front/Rear Vision Paint
Closed Center, Load Sensing 55.7 gpm Hydraulic Pump
Electric over Hydraulic Joystick Operational Controls
Auto Articulation Demo Mode
A Frame Style Draw Bar
14-Foot Moldboard (27" High, 1" Thick) with High Wear Cutting Edges and End Bits
Circle Drive Slip Clutch
Blade Lift Accumulators
Two (2) 1400 CCA Heavy Duty Batteries, 150 Amp. Alternator, 1000 Amp. Starter
AM/FM//WB Radio
Product Link
(1) 25 Amp, (1) 5 Amp 24/12 Volt Converter, with 12V powerpoint
Color Coded and Numbered Electrical Wires
High Style Front LED Headlights, Front Turn Signals, Rear "Drop Down" LED Tail/Stop Lights
Four (4) Forward Facing LED, Two (2) Rear Facing Cab LED Work Lights
Two (2) Rear Facing Radiator Mounted LED Work Lights
Two (2) Front Facing LED Work Lights Mounted on Frame
Two (2) Front Facing LED Work Lights Mounted Under Cab
One (1) Rear Facing LED Wing Light
Engine Compartment LED Lights
Back Up Lights, with Back-Up Alarm
Strobe Light
Rear Hitch
Tool Box
Vandalism Package
Lubrication Test Ports
Craig 301-12 RM Snow Wing
Craig PH100 Front Plow Harness
Owners, Parts Manuals
7 Year/4000 Hour Machine Premier Warranty

$400,000.00 Caterpillar 140AWD, as per specifications on page 2
$100,000.00 Less Caterpillar 143H Trade
$300,000.00 Net Trade

Should the Town of Norwich wish to lease the Caterpillar motor grader. Caterpillar Financial offers governmental agencies low rate lease programs for up to 10 years* with monthly, quarterly, semi-annual and annual payments. I would be more than happy to provide you with lease payments for any specific lease term or amounts, should you so desire.

*8-10 Year lease terms require an approval/exemption process from Caterpillar Financial

Again, I want to thank you for allowing Milton Cat the opportunity to provide you with this information regarding for your equipment needs. Should you have any questions, please feel free to contact me.

Sincerely,

Jeffrey E. Slade
Territory Manager
Governmental Accounts
New Hampshire/Vermont

JES
surface/norwichvt140awdbudgetquote19

PWD Equipment Capital Budget Requests

Fiscal Yr. 2023-2024

Dept: Public Works Dept - Highway

By: L. Wiggins

Capital Budget Request #4 – Sidewalk tractor with attachments

1. **Capital Budget Request**
   Highway Dept. Holder sidewalk tractor to replace 2007 Holder sidewalk tractor with attachments of plow, liquid tank, blower, v plow.
   See attached budgetary quote sheets from:
   Chadwick Bay Ross sheet $120,420

   Hydrid sidewalk tractor not available.
   Trade value of 2007 Holder unknown.

2. **Capital Budget Request Justification**
   Current Holder tractor is 2007 and is therefore 12 yrs. old. It has 2955 hours.
   Current Holder tractor will be 17 years old when replaced.
   The sidewalk tractor is the only equipment which plows and treats the sidewalks.
   If this tractor is not replaced, the department will have to use walk behind snowblowers. This will be extremely slow, expensive and not cost effective. Since the department will not have a dedicated sidewalk tractor operator, a walk behind snowblower would also jeopardize the maintenance of the roads due to the use of Highway truck drivers to operate sidewalk equipment. Rentals of sidewalk tractors is almost impossible.

3. **Financing** – 2023-2024 budget request.

   Highway Equipment Designated Fund

Chadwick-BaRoss

OCTOBER 3. 2019

NORWICH DEPT OF PUBLIC WORKS
26 NEW BOSTON ROAD
NORWICH, VERMONT 05055
ATTN: LARRY WIGGINS- 802-356-3926

QUOTATION
HOLDER MODEL C 270 PRICE SHEET

Includes 4 cylinder, 4 stroke Kubota 67 HP engine, Hydrostatic all-wheel drive, Frame design , wheel motors, load sensing, 43" width, 3,748 pounds, Air Conditioning, ıeated air ride seat, sliding right window, tilt steering wheel, dual Double-acting steering cylinders, active hydraulic front lift, oscillation with float, rear hydraulic Platform, 3 pairs front and I pair couplers, AM/FM CD/MP3 , beacon, 31x10.50.15 Winter Tires, Backup alarm, Working lights, corrosion protection, delivery.

Includes 2 year warranty

Options:
Sander.
Dump Body
44' Dual auger Blower
60" Folding V-Plow
50" Power Angle Plow

TOTAL **$120,420.00**

Leigh C Burrall
Sales Representative
978-479-1520 cell
Authorized Holder Dealer/ Available on FAC 88

15 Katrina Road, Chelmsford, MA 01824 ~ 800.804.0775 Toll Free – 978.256.8802 Fax

PWD Equipment Capital Budget Requests

Fiscal Yr. 2023-2024

Dept: Public Works Dept - Highway

By: L. Wiggins

Capital Budget Request #5 – 2 Wheel Drive Pickup Truck

1. **Capital Budget Request**
   Highway Dept. pickup truck to replace Truck #13.
   See attached budgetary quote sheets from:

   Vermont State contract ----------$26,000.00

   Hydrid trucks not available.
   Trade value unknown.

2. **Capital Budget Request Justification**
   Current Truck #13 is 1989 and therefore 30 yrs. old. It has 10,974 miles.
   Pickup is used to transport welder, generator, tools to emergency field repairs on equipment and therefore emergency response. It is also used to transport signs, cones, barricades, sawcut machine, computer and crew to each work site on regular basis.
   If this truck is not replaced then equipment repairs/emergency response will be impacted. Towing costs can be extremely expensive for larger equipment.

3. **Financing** – 2025-2026 budget request.

   Highway Equipment Designated Fund

CONTRACT

State of Vermont
Buildings and General Services
Office of Purchasing & Contracting
109 State St
Montpelier VT 05609-3001
United States

Contract ID		Page
00000000000000000000030289		5 of 31
Contract Dates	**Origin**	
10/09/2015 to 10/09/2019	CPS	
Description:	**Contract Maximum**	
CPS-MODEL YEAR VEHICLES GMC	$99,999,999.99	
Buyer Name / **Buyer Phone**	**Contract Status**	
Steven D Smith 828-4681	Approved	

Vendor ID 0000001269
Shearer Chevrolet Co Inc
1675 Shelburne Rd
PO Box 566
Burlington VT 05402
United States

Phone #: 802-658-1111

Line #	Item ID	Item Desc	UOM	Unit Price	Max Qty	Max Amt
		20. FLOOR MATS: Manufacturer standard 21. WINDSHIELD WIPERS: Variable speed including intermittent 22. MUD FLAPS: Four installed 23. LICENSE PLATE: Front mounting bracket installed; visibility of license plates must not be obscured including the registration validation sticker area in the lower right corner, and/or the "Vermont" and "Green Mountain State" embossing on the top and bottom of the plate. 24. WARRANTY: Minimum 36/36,000 bumper to bumper GVWR: 6900 lbs. Mfr: GMC Model: Sierra 1500 4WD Regular Cab Model #:TK 10903 Model year: 2019 Base price: $26,096.00 Discount on MSRP options: 5% Discount on MSRP for trim upgrade: 5%				
8		1/2 TON PICKUP TRUCK, FOUR WHEEL DRIVE - EXTENDED CAB (T 2.15)	EA	26,706.00000	0.00	0.00
		1. TYPE: 1/2 Ton Pickup truck, extended cab, with 6-1/2 foot style side body 2. WHEELBASE: As required for body selected, 143.5" 3. ENGINE: 4.3 liter, 6 cylinder; regular unleaded 87 octane gasoline 4. TRANSMISSION: Automatic, 6 speed 5. COOLING SYSTEM: Manufacturer standard 6. DRIVE TRAIN: 4-wheel drive 7. AXLE: Rear Axle 3.42 Ratio (Standard on 4WD V6 models 8. BRAKES: Four wheel, electronic controlled, anti-lock brake system (ABS) 9. ELECTRICAL: Standard OEM battery; 12V DC power outlet in front compartment 10. HEATING / COOLING: Factory installed heating and air conditioning system 11. BODY/CAB: Truck bed length APPROX. 6-1/2 ft. 12. TIRES & WHEELS: i. TIRES: Five radial tires of the same size and ply to conform to GVW rating. All tires shall be all-terrain tread design. Tires and wheels shall be properly balanced. ii. SPARE TIRE CARRIER: Standard mounting iii. JACK: Stand jack and lug wrench for model bid 13. SUSPENSION: Manufacturer standard 14. AIR BAGS: Manufacturer standard air bag package 15. STABILITY/TRACTION CONTROL: When available as an option from manufacturer 16. SEATS: Upholstery Cloth, Front 40/20/40 split bench 17. SPEED CONTROL: Speed/cruise control, factory installed 18. STEERING: Power steering and tilt steering wheel 19. STEREO: AM/FM Radio 20. FLOOR MATS: Manufacturer standard 21. WINDSHIELD WIPERS: Variable speed including intermittent 22. MUD FLAPS: Four installed 23. LICENSE PLATE: Front mounting bracket installed; visibility of license plates must not be obscured including the registration validation sticker area in the lower right corner, and/or the "Vermont" and "Green Mountain State" embossing on the top and bottom of the plate. 24. WARRANTY: Minimum 36/36,000 bumper to bumper GVWR: 7100 Lbs. Mfr: GMC				

CONTRACT

State of Vermont
Buildings and General Services
Office of Purchasing & Contracting
109 State St
Montpelier VT 05609-3001
United States

Contract ID		Page
0000000000000000000030289		6 of 31
Contract Dates		**Origin**
10/09/2015 to 10/09/2019		CPS
Description:		**Contract Maximum**
CPS-MODEL YEAR VEHICLES GMC		$99,999,999.99
Buyer Name	**Buyer Phone**	**Contract Status**
Steven D Smith	828-4681	Approved

Vendor ID 0000001269
Shearer Chevrolet Co Inc
1675 Shelburne Rd
PO Box 566
Burlington VT 05402
United States

Phone #: 802-658-1111

Line #	Item ID	Item Desc	UOM	Unit Price	Max Qty	Max Amt
		Model: Sierra 1500 4WD Double Cab				
		Model #: TK 10753				
		Model year: 2019				
		Base price: $26,706.00				
		Discount on MSRP options: 5%				
		Discount on MSRP for trim upgrade: 5%				
9		1/2 TON PICKUP TRUCK, FOUR WHEEL DRIVE - CREW CAB (T2.17)	EA	29,403.00000	0.00	0.00

1. TYPE: 1/2 Ton Pickup truck, crew cab, with 5-1/2 foot style side body.
2. WHEELBASE: As required for body selected - 143.5"
3. ENGINE: 4.3 liter, 6 cylinder; regular unleaded 87 octane gasoline
4. TRANSMISSION: Automatic, 6 speed
5. COOLING SYSTEM: Manufacturer standard
6. DRIVE TRAIN: 4-wheel drive
7. AXLE: Rear axle 3.42 Ratio (Standard)
8. BRAKES: Four wheel, electronic controlled, anti-lock brake system (ABS)
9. ELECTRICAL: Standard OEM battery; 12V DC power outlet in front compartment
10. HEATING / COOLING: Factory installed heating and air conditioning system
11. BODY/CAB: Truck bed length APPROX. 5-1/2 ft., Full-size rear doors
12. TIRES & WHEELS:
I. TIRES: Five radial tires of the same size and ply to conform to GVW rating. All tires shall be all-terrain tread design. Tires and wheels shall be properly balanced.
II. SPARE TIRE CARRIER: Standard mounting
III. JACK: Stand jack and lug wrench for model bid
13. SUSPENSION: Manufacturer standard
14. AIR BAGS: Manufacturer standard air bag package
15. STABILITY/TRACTION CONTROL: When available as an option from manufacturer
16. SEATS: Upholstery Cloth, 40/20/40 Front split bench
17. SPEED CONTROL: Speed/cruise control, factory installed
18. STEERING: Power steering and tilt steering wheel
19. STEREO: AM/FM Radio
20. FLOOR MATS: Manufacturer standard
21. WINDSHIELD WIPERS: Variable speed including intermittent
22. MUD FLAPS: Four installed
23. LICENSE PLATE: Front mounting bracket installed; visibility of license plates must not be obscured including the registration validation sticker area in the lower right corner, and/or the "Vermont" and "Green Mountain State" embossing on the top and bottom of the plate.
24. WARRANTY: Minimum 36/36,000 bumper to bumper
GVWR: 7100 lbs.

Mfr: GMC

Model: Sierra 1500 4WD Crew Cab

Model #: TK 10543

Model year: 2019

Base price: $29,403.00

Discount on MSRP options: 5%

PWD Equipment Capital Budget Requests

Fiscal Yr. 2024-2025

Dept: Public Works Dept - Highway

By: L. Wiggins

Capital Budget Request #6 – 6 CY Dump Truck with plow, wing, controls

1. **Capital Budget Request**
   Highway Dept. 6CY dump truck with plow, wing and controls to replace Truck #8.
   See attached budgetary quote sheets from:

Freightliner	$92,846.00
Viking Cives – body, plow, wing and controls	$68,500.00
Estimated trade in value (freightliner) = ?	
Hydrid trucks not available.	
Trade value unknown.	
Total	**$161,346.00**

2. **Capital Budget Request Justification**
   Current Truck #8 is 2012 and therefore 9 yrs. old. It has 55,878 miles.
   This truck will be 14 years old when replaced.
   This truck is a front line plow truck and has a designated plow route and therefore is needed for winter maintenance response on a regular basis.
   If this truck is not replaced then winter response will be jeopardized and road conditions may be unsafe for travel for an extended period.

3. **Financing** – 2024-2025 budget request.

   Highway Equipment Designated Fund

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

A proposal for
NORWICH TOWN OF

Prepared by
FREIGHTLINER OF NEW HAMPSHIRE, INC.
Bill Wiley

Oct 02, 2020

Freightliner 108SD

SWB

Components shown may not reflect all spec'd options and are not to scale

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

SPECIFICATION PROPOSAL

Data Code	Description	Weight Front	Weight Rear	Retail Price
Price Level				
PRL-23D	SD PRL-23D (EFF:01/21/20)			STD
Data Version				
DRL-036	SPECPRO21 DATA RELEASE VER 036			N/C
Vehicle Configuration				
001-176	108SD CONVENTIONAL CHASSIS	6,829	3,748	$122,790.00
004-222	2022 MODEL YEAR SPECIFIED			N/C
002-004	SET BACK AXLE - TRUCK			STD
019-001	TRAILER TOWING PROVISION AT END OF FRAME FOR TRUCK	10	10	$1,025.00
003-001	LH PRIMARY STEERING LOCATION			STD
General Service				
AA1-003	TRUCK/TRAILER CONFIGURATION			N/C
AA6-002	DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES)			STD
A85-010	UTILITY/REPAIR/MAINTENANCE SERVICE			N/C
A84-1GM	GOVERNMENT BUSINESS SEGMENT			N/C
AA4-010	DIRT/SAND/ROCK COMMODITY			N/C
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS			STD
AB1-008	MAXIMUM 8% EXPECTED GRADE			STD
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE			STD
995-1A0	FREIGHTLINER SD VOCATIONAL WARRANTY			STD
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 14780.0 lbs			
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 27120.0 lbs			
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 41900.0 lbs			
A70-99D	EXPECTED GROSS COMBINATION WEIGHT : 80000.0 lbs			

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

	Data Code	Description	Weight Front	Weight Rear	Retail Price
Truck Service					
	AA3-018	FRONT PLOW/END DUMP BODY			N/C
	A88-99D	EXPECTED TRUCK BODY LENGTH : 0.0 ft			
	AF3-2A4	TENCO USA, INC.			N/C
Tractor Service					
	AA2-005	FLATBED TRAILER			N/C
	AH6-001	SINGLE (1) TRAILER			N/C
Engine					
	101-3BN	CUM L9 300 HP @ 2200 RPM, 2200 GOV RPM, 860 LB/FT @ 1200 RPM			$1,517.00
Electronic Parameters					
	79A-062	62 MPH ROAD SPEED LIMIT			N/C
	79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT			N/C
	79G-104	5 MINUTE IDLE SHUTDOWN - TIMER RESET WITH CLUTCH AND SERVICE BRAKE			N/C
	79K-007	PTO MODE ENGINE RPM LIMIT - 1100 RPM			N/C
	79M-001	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED			N/C
	79P-002	PTO RPM WITH CRUISE SET SWITCH - 700 RPM			N/C
	79Q-003	PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM			N/C
	79S-001	PTO MODE CANCEL VEHICLE SPEED - 5 MPH			N/C
	79U-007	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND			N/C
N	80G-002	PTO MINIMUM RPM - 700			N/C
	80J-002	REGEN INHIBIT SPEED THRESHOLD - 5 MPH			N/C
Engine Equipment					
	99C-021	2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/GHG21 CONFIGURATION			N/C
	99D-009	2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LEFT SIDE OF HOOD)			$109.00
	13E-001	STANDARD OIL PAN			STD
	105-015	OIL FILL AND DIPSTICK LOCATED FOR ENHANCED SERVICEABILITY			$83.00
	014-1C5	SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER AND INSIDE/OUTSIDE AIR WITH SNOW DOOR	10		$578.00

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

Data Code	Description	Weight Front	Weight Rear	Retail Price
124-1D7	DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE			STD
292-235	(2) DTNA GENUINE, FLOODED STARTING, MIN 2000CCA, 370RC, THREADED STUD BATTERIES			STD
290-017	BATTERY BOX FRAME MOUNTED			STD
281-001	STANDARD BATTERY JUMPERS			STD
282-001	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB			$18.00
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN			STD
289-001	NON-POLISHED BATTERY BOX COVER			STD
87P-001	CAB AUXILIARY POWER CABLE	5		$62.00
293-058	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT	8		$206.00
295-029	POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	2		$88.00
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE			STD
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM			STD
128-1AN	C-BRAKE BY JACOBS WITH HIGH MED LOW BRAKE WITH BRAKE LAMPS	80		$2,574.00
016-1C2	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	30	25	$816.00
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH			STD
239-026	10 FOOT 06 INCH (126 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT			($3.00)
233-017	STANDARD CURVE BRIGHT UPPER STACK(S)			$123.00
237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP			N/C
23U-001	6 GALLON DIESEL EXHAUST FLUID TANK	-35	-10	N/C
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL			($17.00)
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING			STD
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION			STD

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

	Data Code	Description	Weight Front	Weight Rear	Retail Price
	43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP			STD
	242-001	STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD			$48.00
	273-018	HORTON DRIVEMASTER ADVANTAGE ON/OFF FAN DRIVE			STD
	276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED			STD
	110-003	CUMMINS SPIN ON FUEL FILTER			STD
	118-008	COMBINATION FULL FLOW/BYPASS OIL FILTER			STD
	266-104	1115 SQUARE INCH ALUMINUM RADIATOR			STD
	103-039	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT			STD
	171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT			STD
	172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES			STD
	270-016	RADIATOR DRAIN VALVE			STD
	360-013	1350 ADAPTER FLANGE FOR FRONT PTO PROVISION	20		$487.00
	138-011	PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER	4		$92.00
	140-022	CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR			$6.00
	132-004	ELECTRIC GRID AIR INTAKE WARMER			STD
	155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH			STD
Transmission					
	342-584	ALLISON 3500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION			($75.00)
Transmission Equipment					
	343-339	ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, HS, MH AND TRV			STD
	84B-012	ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES			N/C
	84C-022	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 5, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C
	84D-020	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 3, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

Data Code	Description	Weight Front	Weight Rear	Retail Price
84E-017	S5 PERFORMANCE LIMITING PRIMARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C
84F-016	S5 PERFORMANCE LIMITING SECONDARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C
84G-013	2100 RPM PRIMARY MODE SHIFT SPEED			N/C
84H-013	2100 RPM SECONDARY MODE SHIFT SPEED			N/C
84N-200	FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED			STD
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES			STD
84V-001	DIRECTION CHANGE ENABLED WITH MULTIPLEXED SERVICE BRAKES - ALLISON 5TH GEN TRANSMISSIONS			STD
353-023	VEHICLE INTERFACE WIRING CONNECTOR WITHOUT BLUNT CUTS, AT END OF FRAME			$53.00
34C-001	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED			$23.00
341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN			STD
345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED			STD
97G-004	TRANSMISSION PROGNOSTICS - ENABLED 2013			STD
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK			STD
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK			STD
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)			STD
Front Axle and Equipment				
400-1AB	MFS-18-133A 18,000# FL1 71.0 INCH KPI/3.74 INCH DROP SINGLE FRONT AXLE	250		$2,531.00
402-030	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	10		N/C
403-002	NON-ASBESTOS FRONT BRAKE LINING			STD
419-023	CONMET CAST IRON FRONT BRAKE DRUMS			$8.00
427-001	FRONT BRAKE DUST SHIELDS	5		$102.00
409-006	FRONT OIL SEALS			STD
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL			STD

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW
HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

	Data Code	Description	Weight Front	Weight Rear	Retail Price
	416-022	STANDARD SPINDLE NUTS FOR ALL AXLES			STD
	405-003	HALDEX AUTOMATIC FRONT SLACK ADJUSTERS			$51.00
	406-001	STANDARD KING PIN BUSHINGS			STD
	536-012	TRW TAS-85 POWER STEERING	40		N/C
	539-003	POWER STEERING PUMP			STD
	534-003	4 QUART POWER STEERING RESERVOIR	5		$48.00
	40T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 FRONT AXLE LUBE			$17.00
Front Suspension					
	620-006	20,000# FLAT LEAF FRONT SUSPENSION	310		$815.00
	619-004	GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION			N/C
	62G-998	NO FRONT SUSPENSION OPTIONS			STD
	410-001	FRONT SHOCK ABSORBERS			$121.00
Rear Axle and Equipment					
	420-024	RS-30-185 30,000# U-SERIES SINGLE REAR AXLE		275	$7,269.00
	421-586	5.86 REAR AXLE RATIO			N/C
	424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING			STD
	386-073	MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	20	20	STD
	452-001	DRIVER CONTROLLED TRACTION DIFFERENTIAL - SINGLE REAR AXLE		20	$734.00
	878-018	(1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR VALVE FOR SINGLE DRIVE AXLE			N/C
	87B-004	BLINKING LAMP WITH EACH MODE SWITCH, DIFFERENTIAL UNLOCK WITH IGNITION OFF, ACTIVE <5 MPH			N/C
	423-010	MERITOR 16.5X7 P CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, CAST SHOES		20	N/C
	433-002	NON-ASBESTOS REAR BRAKE LINING			STD
	434-011	BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S)			N/C
	451-018	WEBB CAST IRON REAR BRAKE DRUMS		50	N/C
	425-002	REAR BRAKE DUST SHIELDS		5	$56.00
	440-006	REAR OIL SEALS			STD
	426-1B8	BENDIX EVERSURE LONGSTROKE 36/36 1-DRIVE AXLE SPRING PARKING CHAMBERS			$175.00
	428-003	HALDEX AUTOMATIC REAR SLACK ADJUSTERS			$47.00

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

	Data Code	Description	Weight Front	Weight Rear	Retail Price
	41T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE			STD
	42T-001	STANDARD REAR AXLE BREATHER(S)			STD
Rear Suspension					
	622-1DF	30,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD		160	$463.00
	621-001	SPRING SUSPENSION - NO AXLE SPACERS			STD
	431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP			STD
	623-005	FORE/AFT CONTROL RODS			STD
Brake System					
	490-100	WABCO 4S/4M ABS			STD
	871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES			STD
	904-001	FIBER BRAID PARKING BRAKE HOSE			STD
	412-001	STANDARD BRAKE SYSTEM VALVES			STD
	46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM			STD
	413-002	STD U.S. FRONT BRAKE VALVE			STD
	432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE			STD
	480-088	WABCO SYSTEM SAVER HP WITH INTEGRAL AIR GOVERNOR AND HEATER			STD
	479-003	AIR DRYER MOUNTED INBOARD ON LH RAIL			N/C
	460-008	STEEL AIR BRAKE RESERVOIRS MOUNTED INSIDE RAIL			$215.00
*	607-001	CLEAR FRAME RAILS FROM BACK OF CAB TO FRONT REAR SUSPENSION BRACKET BOTH RAILS OUTBOARD			$218.00
		NO AIR TANKS BELOW LH FRAME RAIL.			
	477-004	PULL CABLES ON ALL AIR RESERVOIR(S)			$3.00
Trailer Connections					
	914-025	AIR CONNECTIONS TO END OF FRAME WITH GLAD HANDS FOR TRUCK AND DUST COVERS			$18.00
	296-010	PRIMARY CONNECTOR/RECEPTACLE WIRED FOR SEPARATE STOP/TURN, ABS CENTER PIN POWERED THROUGH IGNITION			N/C
	297-001	SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE MOUNTED END OF FRAME			N/C
	335-004	UPGRADED CHASSIS MULTIPLEXING UNIT			STD

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

	Data Code	Description	Weight Front	Weight Rear	Retail Price
	331-001	SUPPLEMENTAL J560 7-WAY RECEPTACLE LOCATED WITH PRIMARY RECEPTACLE			$91.00
Wheelbase & Frame					
	545-427	4275MM (168 INCH) WHEELBASE			N/C
	546-102	7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI	170	150	$720.00
	548-803	BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW			N/C
	552-030	1600MM (63 INCH) REAR FRAME OVERHANG			STD
	55W-006	FRAME OVERHANG RANGE: 61 INCH TO 70 INCH			N/C
	549-002	24 INCH INTEGRAL FRONT FRAME EXTENSION	140	-20	$4.00
	AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 102.76 in			
	AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 99.76 in			
	AE4-99D	CALC'D FRAME LENGTH - OVERALL : 296.46			
	FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 42.21 in			N/C
	FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 130.71 in			N/C
	AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 102.45 in			
	553-001	SQUARE END OF FRAME			STD
	550-001	FRONT CLOSING CROSSMEMBER			STD
	559-003	LIGHTWEIGHT HEAVY DUTY ALUMINUM ENGINE CROSSMEMBER	-12		$50.00
*	562-041	HEAVY DUTY STEEL 6 PIECE BOLTED CONSTRUCTION MIDSHIP CROSSMEMBER(S)			$74.00
	572-001	STANDARD REARMOST CROSSMEMBER			STD
*	565-002	HEAVY DUTY SUSPENSION CROSSMEMBER		10	N/C
Chassis Equipment					
	556-997	OMIT FRONT BUMPER, CUSTOMER INSTALLED SPECIAL BUMPER, DOES NOT COMPLY WITH FMCSR 393.203	-110		($488.00)
	551-002	HUCK-SPIN ROUND COLLAR CHASSIS FASTENERS			$369.00
Fuel Tanks					
	204-152	70 GALLON/264 LITER ALUMINUM FUEL TANK - LH	5		$72.00
	218-006	25 INCH DIAMETER FUEL TANK(S)			STD

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

	Data Code	Description	Weight Front	Weight Rear	Retail Price
	215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS			STD
	212-007	FUEL TANK(S) FORWARD			STD
	664-001	PLAIN STEP FINISH			STD
	205-001	FUEL TANK CAP(S)			STD
	122-1J1	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR, HAND PRIMER AND 12 VOLT PREHEATER	-5		$51.00
	216-020	EQUIFLO INBOARD FUEL SYSTEM			STD
	202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE			STD
Tires					
	093-1RM	MICHELIN X WORKS Z 12R22.5 16 PLY RADIAL FRONT TIRES	76		$300.00
	094-0E3	MICHELIN XDS 12R22.5 16 PLY RADIAL REAR TIRES		156	$968.00
Hubs					
	418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS			STD
	450-014	WEBB IRON REAR HUBS		280	N/C
Wheels					
	502-356	ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB PILOT 5.99 INSET ALUMINUM FRONT WHEELS	-28		$396.00
	505-356	ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB PILOT 5.99 INSET ALUMINUM REAR WHEELS		-56	$792.00
*	511-356	ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB PILOT 5.99 INSET ALUMINUM SPARE WHEEL		103	$394.00
*	51A-356	ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB PILOT 5.99 INSET ALUMINUM ADDITIONAL SPARE WHEEL		70	$394.00
	498-011	NYLON WHEEL GUARDS FRONT AND REAR ALL INTERFACES			$29.00
Cab Exterior					
	829-1A5	108 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB			STD
	650-008	AIR CAB MOUNTING			STD
	648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE			STD
	667-037	SHORT FENDER WITH MUDFLAP			$141.00
	754-017	BOLT-ON MOLDED FLEXIBLE FENDER EXTENSIONS	10		$115.00

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

Data Code	Description	Weight Front	Weight Rear	Retail Price
678-001	LH AND RH GRAB HANDLES			STD
645-002	BRIGHT FINISH RADIATOR SHELL/HOOD BEZEL			$253.00
646-042	STATIONARY BLACK GRILLE WITH BRIGHT ACCENTS			$88.00
65X-003	CHROME HOOD MOUNTED AIR INTAKE GRILLE			$15.00
644-006	FIBERGLASS HOOD WITH ACCESS HATCHES	10		$682.00
727-066	DUAL 26 INCH RECTANGULAR POLISHED ALUMINUM AIR HORNS ROOF MOUNTED	4		$79.00
726-001	SINGLE ELECTRIC HORN			STD
728-002	DUAL HORN SHIELDS			N/C
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME			STD
78G-002	KEY QUANTITY OF 2			STD
575-001	REAR LICENSE PLATE MOUNT END OF FRAME			STD
312-067	HALOGEN COMPOSITE HEADLAMPS WITH BRIGHT BEZELS			N/C
302-001	(5) AMBER MARKER LIGHTS			STD
294-017	INTEGRAL STOP/TAIL/BACKUP LIGHTS WITH 7 EXTRA FEET OF WIRE MOUNTED AT END OF FRAME			$16.00
300-015	STANDARD FRONT TURN SIGNAL LAMPS			STD
744-1BM	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS			$140.00
797-001	DOOR MOUNTED MIRRORS			STD
796-001	102 INCH EQUIPMENT WIDTH			STD
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS			N/C
74B-1B4	RH AND LH 8 INCH HEATED STAINLESS STEEL FENDER MOUNTED CONVEX MIRRORS WITH TRIPOD BRACKETS	12		$281.00
729-001	STANDARD SIDE/REAR REFLECTORS			STD
764-010	COMPOSITE EXTERIOR SUN VISOR	10		$247.00
768-043	63X14 INCH TINTED REAR WINDOW			STD
661-004	TINTED DOOR GLASS LH AND RH WITH TINTED OPERATING WING WINDOWS			STD
654-027	RH AND LH ELECTRIC POWERED WINDOWS, PASSENGER SWITCHES ON DOOR(S)	4		$218.00
769-002	LOWER RH DOOR WINDOW WITH FRESNEL LENS	7		$206.00
663-013	1-PIECE SOLAR GREEN GLASS WINDSHIELD			STD

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

	Data Code	Description	Weight Front	Weight Rear	Retail Price
	659-007	8 LITER (2 GAL) WINDSHIELD WASHER RESERVOIR, CAB MOUNTED, WITHOUT FLUID LEVEL INDICATOR			STD
Cab Interior					
	707-1AK	OPAL GRAY VINYL INTERIOR			STD
	706-026	MOLDED PLASTIC DOOR PANEL WITHOUT VINYL INSERT WITH ALUMINUM KICKPLATE LOWER DOOR			$27.00
	708-026	MOLDED PLASTIC DOOR PANEL WITHOUT VINYL INSERT WITH ALUMINUM KICKPLATE LOWER DOOR			$27.00
	772-006	BLACK MATS WITH SINGLE INSULATION			STD
	785-001	DASH MOUNTED ASH TRAYS AND LIGHTER			($2.00)
	691-998	NO FORWARD ROOF MOUNTED CONSOLE			($12.00)
	696-012	CENTER STORAGE CONSOLE MOUNTED ON BACKWALL	20		$26.00
	742-007	(2) CUP HOLDERS LH AND RH DASH			STD
	680-007	GRAY/CHARCOAL WING DASH			$387.00
	860-004	SMART SWITCH EXPANSION MODULE			$196.00
	720-003	5 LB. FIRE EXTINGUISHER	10		$60.00
	700-002	HEATER, DEFROSTER AND AIR CONDITIONER			STD
	701-008	STANDARD HVAC DUCTING WITH SNOW SHIELD FOR FRESH AIR INTAKE			$31.00
	703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH			STD
	170-019	STANDARD HEATER PLUMBING WITH BALL SHUTOFF VALVES			$37.00
	130-041	VALEO HEAVY DUTY A/C REFRIGERANT COMPRESSOR			STD
	702-002	BINARY CONTROL, R-134A			STD
	739-034	PREMIUM INSULATION			$145.00
	285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES			STD
	280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM			STD
	324-011	DOME DOOR ACTIVATED LH AND RH, DUAL READING LIGHTS, FORWARD CAB ROOF			$63.00
	655-005	LH AND RH ELECTRIC DOOR LOCKS			$36.00
	284-023	(1) 12 VOLT POWER SUPPLY IN DASH			STD
	722-002	TRIANGULAR REFLECTORS WITHOUT FLARES	10		$24.00

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

Data Code	Description	Weight Front	Weight Rear	Retail Price
756-1D9	PREMIUM HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 3 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION, FORWARD AND REAR CUSHION TILT, ADJUSTABLE SHOCK ABSORBER	70		$414.00
760-1DC	BASIC HIGH BACK NON SUSPENSION PASSENGER SEAT			STD
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS			STD
758-014	BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER			$2.00
761-014	BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER			$4.00
763-101	BLACK SEAT BELTS			STD
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN	10		$478.00
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL			STD
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS			STD
Instruments & Controls				
732-004	GRAY DRIVER INSTRUMENT PANEL			STD
734-004	GRAY CENTER INSTRUMENT PANEL			STD
870-001	BLACK GAUGE BEZELS			STD
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM			STD
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES			STD
198-025	INTAKE MOUNTED AIR RESTRICTION INDICATOR WITHOUT GRADUATIONS			STD
149-017	ELECTRONIC CRUISE CONTROL WITH SWITCHES ON AUXILIARY GAUGE PANEL (B DASH PANEL)			$3.00
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY			STD
811-042	ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED			STD
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH			STD
844-001	2 INCH ELECTRIC FUEL GAUGE			STD
148-003	PROGRAMMABLE RPM CONTROL - ELECTRONIC ENGINE			STD
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE			STD

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

Data Code	Description	Weight Front	Weight Rear	Retail Price
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE			STD
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY			STD
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE			STD
679-001	OVERHEAD INSTRUMENT PANEL			$74.00
35M-001	SMARTPLEX HUB MODULE WITH OVERHEAD SWITCH MOUNTING, DRIVER SIDE ONLY (6 SWITCH SLOTS)	44		$1,354.00
746-115	AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH AND USB AND AUXILIARY INPUTS, J1939	10		$490.00
747-001	DASH MOUNTED RADIO			N/C
750-002	(2) RADIO SPEAKERS IN CAB			N/C
753-001	AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF			$23.00
748-001	POWER AND GROUND STUDS IN/UNDER DASH			$11.00
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER			STD
817-008	STANDARD VEHICLE SPEED SENSOR WITH ADDITIONAL SIGNAL FOR CUSTOMER USE LOCATED BETWEEN DRIVER AND PASSENGER SEATS			$10.00
812-001	ELECTRONIC 3000 RPM TACHOMETER			STD
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP			STD
44R-006	6 ON/OFF LATCHING SMARTPLEX SWITCHES			$73.00
482-001	BW TRACTOR PROTECTION VALVE			N/C
883-001	TRAILER HAND CONTROL BRAKE VALVE			N/C
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY			STD
660-001	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY AND ARCTIC TYPE BLADES			$17.00
304-039	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH AND DUAL CONNECTORS AND SWITCH FOR CUSTOMER FURNISHED SNOW PLOW LIGHTS, LOW BEAMS OFF WITH HIGH BEAMS			$214.00
882-021	TWO VALVE PARKING BRAKE SYSTEM WITH DASH VALVE CONTROL AUTONEUTRAL AND WARNING INDICATOR			$13.00
299-013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE			STD

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

	Data Code	Description	Weight Front	Weight Rear	Retail Price
	298-039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS			STD
Design					
	065-000	PAINT: ONE SOLID COLOR			STD
Color					
	980-2PW	CAB COLOR A: L0662EY SCHOOL BUS YELLOW ELITE EY			N/C
	986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT			STD
	976-995	SUNVISOR PAINTED SAME AS CAB COLOR A			N/C
	963-003	STANDARD E COAT/UNDERCOATING			STD
Certification / Compliance					
	996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS			STD
Secondary Factory Options					
*	99X-019	OBD 2019 MISFIRE MONITORING			N/C
Raw Performance Data					
	AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 99.76 In			
	AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 102.45 In			
Sales Programs					
		NO SALES PROGRAMS HAVE BEEN SELECTED			

TOTAL VEHICLE SUMMARY

Adjusted List Price

Adjusted List Price **	$154,416.00

Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight*	8070 lbs	5016 lbs	13086 lbs

Prepared for:
LARRY WIGGINS
NORWICH TOWN OF
PO BOX 376
NULL
NORWICH, VT 05055
Phone: 802-649-2209

Prepared by:
Bill Wiley
FREIGHTLINER OF NEW HAMPSHIRE, INC.
165 HEATER ROAD
LEBANON, NH 03766
Phone: 603-443-9955

QUOTATION

108SD CONVENTIONAL CHASSIS

SET BACK AXLE - TRUCK
CUM L9 300 HP @ 2200 RPM, 2200 GOV RPM, 860 LB/FT @ 1200 RPM
ALLISON 3500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
RS-30-185 30,000# U-SERIES SINGLE REAR AXLE
30,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD
MFS-18-133A 18,000# FL1 71.0 INCH KPI/3.74 INCH DROP SINGLE FRONT AXLE
20,000# FLAT LEAF FRONT SUSPENSION
108 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
4275MM (168 INCH) WHEELBASE
7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI
1600MM (63 INCH) REAR FRAME OVERHANG
BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW

			PER UNIT		TOTAL
VEHICLE PRICE	**TOTAL # OF UNITS (1)**	$	89,746	$	89,746
EXTENDED WARRANTY		$	0	$	0
DEALER INSTALLED OPTIONS		$	3,100	$	3,100
CUSTOMER PRICE BEFORE TAX		**$**	***92,846***	**$**	***92,846***
TAXES AND FEES					
TAXES AND FEES		$	0	$	0
OTHER CHARGES		$	0	$	0
TRADE-IN					
TRADE-IN ALLOWANCE		$	(0)	$	(0)
BALANCE DUE	**(LOCAL CURRENCY)**	**$**	**92,846**	**$**	**92,846**

COMMENTS:
Projected delivery on ___ / ___ / ___ provided the order is received before ___ / ___ / ___.

APPROVAL:
Please indicate your acceptance of this quotation by signing below:

Customer: X_____ Date: ___ / ___ / ___.

Daimler Truck Financial
Financing that works for you.

See your local dealer for a competitive quote from Daimler Truck Financial, or contact us at Information@dtfoffers.com.
Daimler Truck Financial offers a variety of finance, lease and insurance solutions to fit your business needs. For more information about our products and services, visit our website at www.daimler-truckfinancial.com.

Cives Corporation, dba
Viking Cives (USA)
14331 Mill Street
Harrisville, NY 13648
Phone: (315) 543-2321
Fax: (315) 543-2366
www.vikingcives.com

QUOTATION

Quote ID: 90010

Fall '08 Factory Install Catalog

Customer: TOWN OF NORWICH
Contact: Larry Wiggins
Address: 300 MAIN STREET
NORWICH, VT 05055

Phone: 802-649-2209
Fax:
Attn: Larry Wiggins

Quote Number: 90010
Quote Date: 09/23/2020
Quote valid until: 06/23/2021
For:
Terms: Net 30 Days
Salesperson: Mike Murray
FOB: Williston, VT

QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
1	Power Tilt Hitch w/Wing Mount and Twin Chain Tilt	$0.00	$0.00
1	FAH33 Hydraulic Front Mast Assembly w/Ribbed Slide	$0.00	$0.00
1	Full Trip Hinge – 10 Degree w/Lockout	$0.00	$0.00
1	H1059V Rear Shelving Support w/Quick Detach	$0.00	$0.00
1	120WHD Wing	$0.00	$0.00
1	HD Full Trip Hydraulic Arms (Cushion Spring Lower)	$0.00	$0.00
1	Sabre Blades	$0.00	$0.00
1	Carbide Moldboard Shoes (Pair)	$0.00	$0.00
1	R1142FE Full Trip Reversing Moldboard	$0.00	$0.00
1	PRR Hydraulic Ram Reversing Push Frame w/Cushion Valve Relief	$0.00	$0.00
1	Full Trip Compression Spring Arms	$0.00	$0.00
1	Three Chain Level Lift	$0.00	$0.00
1	Standard Push Lug Swivel	$0.00	$0.00
1	HD Sabre Blades	$0.00	$0.00
1	Rubber Deflector	$0.00	$0.00
1	Front Mounted Large Volume Pump w/Shutdown	$0.00	$0.00
1	Behind Cab Mounted Oil Reservoir	$0.00	$0.00
1	Nine Section Load Sharing/Proportional Implement/Spreader Valve in Enclosure	$0.00	$0.00
1	Cable Actuated Implement Controls w/Front and Rear (2) Remotes	$0.00	$0.00
1	Cirus EZ Spread 2 Electronic Spreader Control	$0.00	$0.00
1	Stainless Steel Hydraulic Piping to the Front and Rear	$0.00	$0.00
1	PLHW10' BiDi Radius Body w/Front Cross Conveyor and Rear Discharge	$0.00	$0.00
1	¼" AR450 Floor	$0.00	$0.00
1	3/16" Corten Front and Radius Sides	$0.00	$0.00
1	Tailgate w/Air Release	$0.00	$0.00
1	½ Cab Shield	$0.00	$0.00
1	DA Telescopic Hoist and Rear Hinge w/Integral Dump Locks	$0.00	$0.00
1	Hydraulic Feed Gate	$0.00	$0.00
1	Ladder	$0.00	$0.00
1	Shovel Holder and 30" Stainless Steel Bawer Tool Box	$0.00	$0.00
1	Electric Load Cover w/30 Degree Aluminum Arms and Mesh Tarp	$0.00	$0.00
1	Pintle Plate w/20 Ton Hook, D-Rings, and Electrical Plug	$0.00	$0.00
1	Front and Rear Mud Flaps w/Anti Sails on the Front Flaps	$0.00	$0.00
1	**Shot Blasted, Zinc Primed, Epoxy Primed, and High Temperature Baked**	$0.00	$0.00
1	**Painted Dupont Imron Yellow and High Temperature Baked**	$0.00	$0.00

Cives Corporation, dba
Viking Cives (USA)
14331 Mill Street
Harrisville, NY 13648
Phone: (315) 543-2321
Fax: (315) 543-2366
www.vikingcives.com

QUOTATION

Quote ID: 90010

Fall '08 Factory Install Catalog

QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
1	LED Cab Shield (4) and LED Heated Corner Post Mounted Strobe System	$0.00	$0.00
1	LED Heated Stop/Tail/Turns, LED Heated Back Ups, and LED Markers	$0.00	$0.00
1	LED Heated Plow Lights	$0.00	$0.00
5	LED Spot Lights (3+2 Heated in Stainless Guards)	$0.00	$0.00
		Quote Total:	**$68,500.00**

The following options may be added:

QUANTITY	DESCRIPTION	PRICE EACH	AMOUNT
OPT		$0.00	$0.00

Customer must fill out the information below before the order can be processed...

Accepted by:	
Date:	
P.O. number:	

The price and terms on this quotation are not subject to verbal changes or other agreements unless approved in writing by the Home Office of the Seller. All quotations and agreements are contingent upon strikes, accidents, fires, availability of material and all other causes beyond our control. Prices are based on costs and conditions existing on date of quotation and are subject to change by the Seller before final acceptance.

- Typographical and stenographic errors subject to corrections. Purchaser agrees to accept either overage or shortage not in excess of ten percent to be charged pro-rata. Purchaser assumes liability for patent and copyright infringement when goods are mode to Purchaser's specifications. When quotation specifies material to be furnished by the purchaser, ample allowance must be made for reasonable spoilage and material must be of suitable quality to facilitate efficient production.
- Conditions not specifically stated herein shall be governed by the established trade customs. Terms inconsistent with those stated herein which may appear on Purchaser's formal order will not be binding on the Seller.
- Unless otherwise stated, Installation charges do not include modifications to exhaust systems, cab protectors or bumpers.

PWD Equipment Capital Budget Requests

Fiscal Yr. 2025-2026

Dept: Public Works Dept - Highway

By: L. Wiggins

Capital Budget Request #7 – Wood Chipper

1. **Capital Budget Request**
   Highway Dept. wood chipper to replace 1994 chipper
   Estimated cost $47,000 (L. Wiggins estimate)

   Trade value unknown.

2. **Capital Budget Request Justification**
   Current chipper is 1994 and therefore 25 yrs. old. It has 252 hours.
   Chipper has not been used routinely in past. Trees and brush have been hauled to the Public Works Garage. This practice has to stop as there is very little room left.
   If the chipper is not replaced then trees and brush will have to be hauled away (not to Public Works Garage) at a large expense.

3. **Financing** – 2025-2026 budget request.

   Highway Equipment Designated Fund

PWD Equipment Capital Budget Requests

Fiscal Yr. 2026-2027

Dept: Public Works Dept - Highway

By: L. Wiggins

Capital Budget Request #8 – 6 CY Dump Truck with plow, wing, controls

1. **Capital Budget Request**
   Highway Dept. 6CY dump truck with plow, wing and controls to replace Truck #8.
   See attached budgetary quote sheets from:

Freightliner	$92,846
Viking Cives – body, plow, wing and controls –	$68,500
Estimated trade in Value (Freightliner) = ?	
Hydrid trucks not available.	
Trade value unknown.	
Total	**$161,346**

2. **Capital Budget Request Justification**
   Current Truck #5 is 2015 and therefore 5 yrs. old. It has 42998 miles.
   This truck will be 13 years old when replaced.
   This truck is a front line plow truck and has a designated plow route and therefore is needed for winter maintenance response on a regular basis.
   If this truck is not replaced then winter response will be jeopardized and road conditions may be unsafe for travel for an extended period.

3. **Financing** – 2026 -2027 budget request.

   Highway Equipment Designated Fund

PWD Equipment Capital Budget Requests

Fiscal Yr. 2021-2022

Dept: Public Works Dept – Buildings & Grounds

By: L. Wiggins

Equipment Capital Budget Request #9 –

1. **Capital Budget Request - Purchase 72" riding mower with bagger**
   Purchase 72" riding mower to replace (1) Wright mower and (1) Hustler mower ($15,000 L. Wiggins estimate)
   Sale value of current mowers is unknown.

2. **Capital Budget Request Justification**

   New 72" mower will cut mowing of Huntley field significantly thus saving man hours.

   DPW has new responsibilities as of 7/1/2020 - Maintenance of school (mow, trim, week, mulch, leaf removal)

3. **Financing** – 2021-2022 budget request.

   Building & Grounds Equipment Designated Fund

PWD Equipment Capital Budget Requests

Fiscal Yr. 2022-2023

Dept: Public Works Dept – Transfer Station

By: L. Wiggins

Equipment Capital Budget Request #10

1. **Capital Budget Request**
   Compactor replacement $45,000

2. **Capital Budget Request Justification**

   Cardboard compactor was 20 years old in 2019

3. **Financing** – 2022-2023 budget request.

   Transfer Station Equipment Designated Fund

Atlantic Recycling Equipment, LLC

Refuse Equipment Sales and Service

PO Box 609

Rollinsford,NH 03869

Phone: 603-749-2414 Fax: 603-749-2421

WWW.ATLANTICRECYCLINGEQUIPMENT.COM

Quotation

Date 9/18/2019

Quotation # 1451

Quotation Valid until: 10/18/2019

Prepared by: TMH

Submitted To:
Town of Norwich, VT 300 Main St. PO Box 376 Norwich, VT 05055
Notes: 445HD Compactor Quote

Project
"Norwich Dept of Public Works: Compactor Bid"
Terms: Net 30

Qty	Item	Description	Rate	Total
1	WQ445HD	Wastequip Model 445HD - 4yd Stationary Compactor with the following specifications: Internal 15HP Power unit, Tri-volt, TEFC High Efficiency Motor, UL/CUL Listed, Wastec Rated, Multi-cycle Timer, 100% Full Light, ANSI Z.245.2 Compliant, Guardian Control System, NEMA 4 Rated Control Panel, Heavy Duty Ratchet Binders, Override-Packout Hydraulic Pressure Boost, (AMS) Automatic Maintenance Scheduler, Low Temperature Hydraulic Oil, Compactor controls are in the face of control cabinet. Factory Warranty: Three (3) Years Structural, One (1) Year Parts and Labor. Painted Any standard color. Please see the attached Brochure for compactor details and paint color choices	15,975.00	15,975.00
1	Misc	Remote 15HP, Tri-volt 208,230,460, Three (3) phase power unit mounted to the rear of the compactor. Power unit will be wired for 230 volt, Three (3) phase power and prepped for the VFD hook up.	250.00	250.00
1	WQCO122	Controls on 15' remote pendent in lieu of mounting in panel face, Factory option for Stationary & Self-Contained Models	240.00	240.00

THESE PRICES DO NOT INCLUDE ANY APPLICABLE TAXES.

Total

Payment Terms: 30 DAYS

Any alterations or deviations from the above specifictions involving extra costs will be executed only upon written orders, and will become an extra charge to this quotation. All agreements are contingent upon strikes, accidents, or delays beyond our control. Owner to carry all necessary insurance coverage. Our employees are fully covered by workers compensation insurance.

PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Acceptance:
The above quoted pricing, specifications and conditions are satisfactory and are hereby accepted. You are authorized to perform the job.

Authorized Signature: _____ **Date:** _____

Please email signed quote to admin@arenh.com or fax to 603-749-2421

THANK YOU FOR YOUR BUSINESS!

Atlantic Recycling Equipment, LLC
Refuse Equipment Sales and Service
PO Box 609
Rollinsford,NH 03869
Phone: 603-749-2414 Fax: 603-749-2421
WWW.ATLANTICRECYCLINGEQUIPMENT.COM

Quotation

Date 9/18/2019

Quotation # 1451

Quotation Valid until: 10/18/2019

Prepared by: TMH

Submitted To:
Town of Norwich, VT 300 Main St. PO Box 376 Norwich, VT 05055
Notes: 445HD Compactor Quote

Project
"Norwich Dept of Public Works: Compactor Bid"
Terms: Net 30

Qty	Item	Description	Rate	Total
1	WQCO166	Pressure gauge - color coded and numeric - on 15' hose-mounted	275.00	275.00
1	WQCO403	Oil heater thermostatically controlled, 10-60 gallon reservoir	526.00	526.00
1	WQCO201	Guide Rails - 5' standard, available on 145-245-265X & 345	250.00	250.00
1	Trade-In	Used Equipment Trade-in on the existing Compactor and power unit "AS-IS"	-1,000.00	-1,000.00
1	FABRICATION	Two (2) Door Dog House, as requested in the bid, built to meet ANSI & OSHA Safety Regulations, includes Magnetic Interlock Switches and painted to match the compactor.	1,895.00	1,895.00

THESE PRICES DO NOT INCLUDE ANY APPLICABLE TAXES.

Total

Payment Terms: 30 DAYS

Any alterations or deviations from the above specifictions involving extra costs will be executed only upon written orders, and will become an extra charge to this quotation. All agreements are contingent upon strikes, accidents, or delays beyond our control. Owner to carry all necessary insurance coverage. Our employees are fully covered by workers compensation insurance.

PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Acceptance:
The above quoted pricing, specifications and conditions are satisfactory and are hereby accepted. You are authorized to perform the job.

Authorized Signature: _____ **Date:** _____

Please email signed quote to admin@arenh.com or fax to 603-749-2421

THANK YOU FOR YOUR BUSINESS!

Atlantic Recycling Equipment, LLC
Refuse Equipment Sales and Service
PO Box 609
Rollinsford,NH 03869
Phone: 603-749-2414 Fax: 603-749-2421
WWW.ATLANTICRECYCLINGEQUIPMENT.COM

Quotation

Date 9/18/2019

Quotation # 1451

Quotation Valid until: 10/18/2019

Prepared by: TMH

Submitted To:
Town of Norwich, VT 300 Main St. PO Box 376 Norwich, VT 05055
Notes: 445HD Compactor Quote

Project
"Norwich Dept of Public Works: Compactor Bid"
Terms: Net 30

Qty	Item	Description	Rate	Total
1	VFD	Variable Frequency Drive (VFD) - Rated to operate a 15HP power unit wired for 230 volt, Three (3) phase power. The VFD will convert your in-coming 220 volt, Single Phase power to 230 volt. The Town of Norwich, VT will be responsible to hire the registered Electrician to install the VFD unit prior to installation and run the required wiring to the power unit location, Atlantic will be responsible to hook all the wires, program the VFD and start up the compactor. Atlantic will deliver the VFD unit ahead of the install and will need to meet the Electrician on site to go over the installation.	3,995.00	3,995.00
1	Installations	Installation of the Compactor System, hook up to the control cabinet from the VFD, Programming the VFD for proper operation & Demo the Operation of the Compactor to Transfer Station Personnel. Current Factory Lead Time 6 - 8 weeks for the compactor after receipt of a signed order.	2,300.00	2,300.00
			Total	$24,706.00

THESE PRICES DO NOT INCLUDE ANY APPLICABLE TAXES.

Payment Terms: 30 DAYS

Any alterations or deviations from the above specifictions involving extra costs will be executed only upon written orders, and will become an extra charge to this quotation. All agreements are contingent upon strikes, accidents, or delays beyond our control. Owner to carry all necessary insurance coverage. Our employees are fully covered by workers compensation insurance.

PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Acceptance:
The above quoted pricing, specifications and conditions are satisfactory and are hereby accepted. You are authorized to perform the job.

Authorized Signature: _____ **Date:** _____

Please email signed quote to admin@arenh.com or fax to 603-749-2421

THANK YOU FOR YOUR BUSINESS!

STATIONARY COMPACTORS

445HD & 445XHD

Wastequip's efficient, powerful, and long-lasting industrial 4-yard compactor has a large 65" x 60" clear top opening, and is ideal for dry waste and recycling material.

Guardian™ Control System

- New user-friendly controls
- Automatic Maintenance Tracking
- Superior 24-volt control
- NEMA 4 rated enclosure
- Remote power unit with weather protection cover

Heavy-Duty Ratchet Binders

- 1" thick hooks
- Greasable fittings

Performance

- 14" ram penetration minimizes spring-back of material
- Heavy-duty 8" x 8" x 1" breaker bar

Large-Access Openings for Maintenance and Service

- Removable rear panel
- Removable side panels

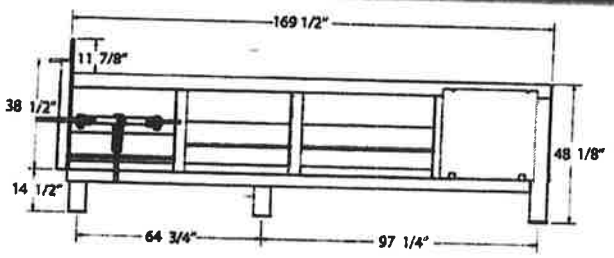
Easy-to-use 24-volt Guardian Control System (optional remote pendant shown)

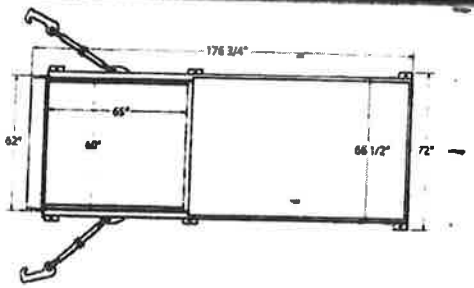
** Use of an oil heater or extreme cold weather hydraulic oil is recommended in extreme cold conditions.*

WASTEQUIP®

STATIONARY COMPACTORS

445HD & 445XHD





Standard Features

- 1/2" thick ram floor
- 57-second cycle time
- Controls in panel face
- Automatic Maintenance Tracking
- Full container light
- Low temperature oil
- Multi-cycle timer
- Operational and service manual
- NEMA 4 control panel protects against windblown dust, splashing water, and hose-directed water
- Primed and painted in multiple colors
- Remote power unit with weather cover

Options

- Advance warning light
- Color-coded pressure gauge
- Guide rails with/without stops
- Oil heater
- Photo electric eye
- Odor control system
- Cart dumper
- Biodegradable oil

Warranty

- 3-1-1 warranty (3-year structural, 1-year parts, 1-year labor)

Specifications		445HD	445XHD*
Charge Box	Wastequip rating	4.00 cu. yds.	
	Wastec rating	2.59 cu. yds.	
	Clear top opening	65" Length x 60" Width	64" Length x 60" Width
	Compactor weight with power unit	6,700 lbs.	6,900 lbs.
Ram	Ram height	30.50"	
	Ram penetration	14.00"	
	Face plate	1/2" steel with 3/4" stiffener plates	
	Base plate	3/8" steel with 10 gauge formed stiffeners	
	Top plate	1/4" steel with 10 gauge formed stiffeners	
	Side plates	1/4" formed plate	
Compactor Head	Floor	1/2" steel with 10 gauge channels at 12" spacing	
	Sides	1/4" steel formed vertical stiffeners and formed horizontal stiffeners	1/4" steel formed vertical stiffeners and formed horizontal stiffeners; side stiffeners, gussets in discharge area
	Breaker bar	8" x 8", 1" angled steel	1" thick breaker bar plate
	Top deck	12 gauge steel (standard)	
Electrical	Electric motor, fan cooled	15 hp	
	Voltage	208/230/460, 3 phase 60 Hz	
	Power box	UL rated, TEFC housing	
	Automated cycle operation	Push-button start extends, retracts & stops automatically	
Hydraulic Performance	Pump	16.4 gpm	
	Pump type	Fixed gear	
	Hydraulic oil tank	25-gallon reservoir	
	Cylinder bore/rod/stroke	6.25" bore, 4.75" rod, 80" stroke	
	Normal ram face pressure	52,100 lbs.	64,400 lbs.
	Max. ram face pressure	56,500 lbs.	70,500 lbs.
	Normal ram psi	28.47 psi	35.19 psi
	Maximum ram psi	31.80 psi	38.52 psi
	Cubic yards per hour	164	
	Power unit location	Remote	
	Cycle time	57 seconds	

Specifications are the same as the 445HD, except where indicated.

GO TO PARTS

Replacement parts available online at www.gotoparts.com.

Standard Color Choices

White, Gray, Black, Teal, Med. Blue, Dark Blue, Med. Green, Dark Green, Cream, Yellow, Orange, Red, Burgundy, Brown

Colors shown are as accurate as printing allows. The actual color is subject to variation from the printed color sample. Color choices vary by plant location. Please contact your local sales representative for available colors. Custom colors are available upon request and are subject to an additional charge.

WASTEQUIP

Tel: 877.468.9278 | sales@wastequip.com | www.wastequip.com

Recreation

5 Year Plan

Bridge across Blood Brook to Huntley Meadows ($35,00-50,000)

In the next five years, Norwich Recreation would like to add to the walkability score of Norwich by installing a bridge from Beaver Meadow Road to Huntley Meadows. This bridge (a Rolling Barge aluminum trail bridge) will be funded via private donations, and built by the community.

Re-finishing the tennis courts (est. $80,000-150,000 – surface dependent)

The Huntley tennis courts have significant cracks in the surfacing, and have been evaluated by the contractor chosen to complete the resurfacing last year as having a limited life. They will need to be completely renovated within the next 2-5years.

Multiuse machine for trails and Huntley ($16,000)

The current snow machine that is used to groom Huntley Meadows is nearing the end of its life, and requires constant maintenance. A new, multi-use trail groomer would allow the Town committees to perform trail maintenance, groom more public land for skiing, and would be ecologically more responsible than the current machine, which expels copious amounts of smoke when in use.

10 Year Plan

Accessible bathrooms on Huntley Meadows ($150,000)

We are estimate spending $1,200 annually on the portable toilets on Huntley Meadows between the months of April-October. Huntley Meadows is seeing an increase in year-round traffic, and would benefit greatly from a stand-alone composting toilet system housed in a solar-lit enclosure for low light events.

Bridge across Blood Brook at Betty Booth ($35,000-50,000)

The Betty Booth Trail is an in-town trail system on 32 acres of rolling hills, forest and streamside beaches. The students at Marion Cross currently use the trail for their Community Service projects, and stream studies. The Norwich Naturalist summer camp visits the Betty Booth trail weekly, as do our mountain biking and trail running programs. There are large boulders across the brook that are being undercut by the varying force of Blood Brook. A bridge across the stream would allow all residents to enjoy the trail system on both sides of the brook without having to enter the stream itself.

20 Year Plan

Identify and build an in-town Community Center

This center would house Recreation, Community Outreach, Wellness Resources. During the academic year, the center would be staffed by Hanover High School students, and would serve as a drop-in site for all Norwich youth, providing recreation, study areas, a kitchen and lounge. The center would be located in the village, accessible both by foot and Advanced Transit. Costs associated would be purchase, renovation and operating costs of the center.

Full footpath, off-road, roadside connectivity for BMR, UVR and GFC/132

A roadside footpath, within the Town ROW, would be a large step in increasing the accessibly for foot and bicycle commuters in Norwich. Costs associated would be construction, and where needed, easements across privately-owned parcels deemed integral to the project.

Print Form

Detailed Capital Budget Request Form

(To be completed for all individual expenditures/projects > $25,000 in accordance with the Capital Expenditure Policy)

Date Submitted: 11/18/2020

1. Project Details

Project Name: Huntley Meadows Tennis Courts

Life (years): 20+

Project Originator (Name): Brie Swenson

Phone: 802-649-1419

Department: Recreation

Location:

Desired project timing: Start Date: 5/2022

Completion Date: 6/2022

2. Project Description/Justification

Include a detailed description of the project and justification. Attach addt'l documentation as necessary.

Rebuilding the Huntley Meadows tennis courts is necessary, according to representatives from Vermont Tennis and Advantage Tennis. They have both evaluated the courts this year, and expressed doubt that any future patches will carry us through a full season. Their recommendations have been to completely rebuild the courts from the ground up at a cost between $80,000-150,000 - surface dependent.

There is a rolling application grant from US Tennis Association that, if we are awarded the funding, pays for 50% of a tennis court rebuild.

3. Project Cost Estimate

Attach detailed breakdown of costs. If the project relates to construction/remodeling, please attach a Facilities Department Cost Estimate.

Included in Fiscal Year Budget: ☐ YES ☒ NO Amount: $

Project Cost Estimate:

Total Project Cost: $ 150,000/75000

Timing of Project Costs

FY	22	Amount $	37500/18750
FY	23	Amount $	37500/18750
FY	24	Amount $	37500/18750
FY	25	Amount $	37500/18750
		Total $	150000/75000

4. Project Funding Sources If the project is going to be funded/partially funded by a specific grant/gift account rather than the capital budget pool, please specify the account number and amount of funding below.

Accounting Unit/Account Number		Amount: $	
Accounting Unit/Account Number		Amount: $	

5. Annual Operating Cost Impact Provide cost estimates relating to the annual impact of this project on the operating budget. For example, estimate increased maintenance or energy costs associated with new facilities. If this project is related to a new or expanded program, provide cost data, including costs for increased staff. Estimate the annual savings to the operating budget such as reduced energy costs associated with an energy conservation project or reduced staff associated with an IT project. Also estimate the increased revenue to be generated, if any.

	Annual Increase In Operating Costs	Annual Operating Savings
Maintenance Costs:		
Energy Costs:		
Salary Costs:		
Other:		
Other:		
Total:		

Additional Estimated Revenue to be Generated $

*Approval of this form does not indicate approval of increases to any unit's operating budget. Any increase in operating budget must be approved through the normal budgeting process.

6. Financial Analysis
(only required on some projects)

Payback Period	
Internal Rate of Return	
Net Present Value	

Town of Norwich, VT
Capital Budget & Program - FYE 2022 - 2027 (July 1 through June 30)

Department:	Life Span	Estimated Cos	Source(s) of Funding	New Impact on Operational Expenditures ($)	Replacement Date	Fiscal Year, Ending June 30					
						Capital Budget 2022	* FOR PLANNING PURPOSES ONLY * Capital Program #1 2023	Capital Program #2 2024	Capital Program #3 2025	Capital Program #4 2026	Capital Program #5 2027
Police Department:											
Vehicles (assumes 5/6yr rotation):											
EQ1	5 Years	##	Police Cruiser Fund (Lease Option)	$13K/yr into Cruiser Fund	2022	$ -	$ -	$ -	$ -	$ 68,316	
EQ2	N/A	N/A	Police Cruiser Fund	$ -	N/A	$ -	$ -	$ -	$ -	$ -	$ -
EQ203	5 Years	##	Police Cruiser Fund	$ -	2026	$ -	$ -	$ -		$ 67,640	$ -
EQ4	5 Years	##	Police Cruiser Fund (Lease Option)	$13K/yr into Cruiser Fund	2021	$ -	$ -	$ -	$ -		$ 68,316
Equipment:											
Special Equipment:											
Ballistic Vests	5 Years	$4,000	USDOJ Grant ($2,600)/Equip. Fund ($2,600)	$520/yr into Equip. Fund	2024	$ -	$ -	$ 5,200		$ -	$ -
Camera/audio system - car/body (4)		##			2021	$ 5,000					
Firearms (Handguns & Long Guns) (5+3)	10 Years	$8,000	Special Equipment Fund	$500/yr into Equip. Fund	2023,29	$ -	$ 1,500	$ 1,500	$ 1,500	$ -	$ -
Radios (Portable & Desktop) (6+1)	10 Years	##	Special Equipment Fund	$1,700/yr into Equip. Fund	2021	$ 2,000	$ 4,000			$ -	$ -
Shield & Helmets), 1 set/cruiser (4)	10 Years	$5,000	PACIF Grant ($2,500)/Equip. Fund ($2,500)		2021	$ -	$ -	$ -	$ -	$ -	$ -
IT Equipment:											
Computers (MDTs & Peripherals)	5 Years	$6,000	Special Equip. (MDT's)/Gen'l Adm. (Office)	$4K/yr into Equip Fund	2025	$ -	$ -	$ -	$ 6,000		
Behavioral Safety:											
Preliminary Breath Test (PBT) Meters	10 Years	$2,000	Behavioral Safety Unit Grant/Equip Fund	$500/yr into Equip Fund	2030	$ -	$ -	$ -			$ -
RADAR/LIDAR (Handheld) (4)	6 Years	$6,000	Behavioral Safety Unit Grant/Equip Fund	$1,200/yr into Equip Fund	2023		$ 2,400				$ -
Speed Signs (Driver Feedback Units)	10 Years	##	Behavioral Safety Unit Grant/Equip Fund	$400/yr into Equip Fund		$ -	$ -	$ -	$ -		
Total, Capital Project Expense						**$ 7,000**	**$ 7,900**	**$ 6,700**	**$ 7,500**	**$ 135,956**	**$ 68,316**

Norwich Police Department
FYE21/22 Budget
- Capital -

Submitted by: Chief Jennifer Frank

INTRODUCTION

The Norwich Police Department submits annually to the Town Manager two budgets, the Operational Budget and the Capital Budget. While the operational budget addresses personnel costs and day to day operating expenditures, the capital budget addresses the first year of anticipated large-scale expenditures based on the five-year Capital Improvement Program (CIP) plan. These large-scale expenditures, outlined in detail in the Norwich Police Department Capital Asset Manual, are critical to the ability of the Norwich Police Department to meet the level of service required for protecting and serving the citizens and visitors to the Town of Norwich. Through capital budgeting, we as a department are able to plan for future operating expenditures and ensure that that the infrastructure is properly maintained for successful operation. To that end, in 2019, the Norwich Police Department created and implemented a Capital Asset Manual, a sample of which has been included as an addendum to this document as supporting justifications.

DEFINITIONS

While the Town of Norwich defines a capital expenditure as those items valued at greater than $10,000, the Norwich Police Department finds it useful for the purpose of budgeting to account and plan for those assets, tangible and/or intangible in nature, that have a useful life greater than one year and an acquisition cost equal to or greater than $500.00. As more than 80% of the NPD budget is expended on wages and benefits, only a small portion of the budget is dedicated to the purchase of large-scale items; as such, many of the necessary required assets must be planned and budgeted for over a series of budget cycles.

Capital Asset	A capital asset is defined as Norwich Police Department property that is tangible and/or intangible in nature, has a useful life greater than one year and an acquisition cost equal to or greater than or equal to the $500 capitalization threshold.
Non-Capitalized Assets	A non-capitalized asset is a non-expendable item which has a life expectancy greater than one year and has an acquisition cost below the $500 threshold. These are assets that are sensitive in nature.
Acquisition Cost	Acquisition cost is defined as the purchase price plus any cost incurred to place the asset in service.
Ancillary Cost	Ancillary costs are costs in addition to purchase or construction costs, related to placing a capital asset into its intended state of operation. Normally, ancillary costs are included in the cost of a capital asset. However, some minor ancillary costs may be expensed.
Capitalization Threshold	The capitalization threshold for NPD is $500. The threshold may be applied to individual capital assets or to a similarly grouped set of assets.
Tangible Assets	Tangible Assets are defined as having a long-term physical existence and/or acquired for use in the operations of the police department.

Intangible Assets	Intangible assets are defined as non-physical property owned by the Police Department that have a lasting value. These types of assets cannot be physically touched, seen, or held.

DEPRECIATION

In planning for the replacement and initial purchase of capital budget related assets, the Norwich Police Department utilizes the "straight-line" depreciation and/or amortization methods for all capital assets. Depreciation and/or amortization is recorded annually at the end of each fiscal year. The "in-service" date is determined by the acquisition date. The following guidelines were used to determine "in-service" date: If the acquired date was between 1st and 14th of the month, the 1st of the acquired month will be used. If the acquired date was between the 15th and 30th/31st of the month, the 15th of the acquired month will be used. Normal useful life has been defined as the physical life, in terms of years, that an asset is expected to endure before it deteriorates to an unusable condition or does not function efficiently. All Norwich Police Department capital assets were assigned an estimated useful life determined by common standards and industry best practices. The life span for each asset or asset grouping has been identified and it should be noted that multiple NPD assets remain in use beyond their expected date of replacement and/or disposal expectancies.

CAPITAL BUDGET ITEMS – HISTORICAL REVIEW

The Norwich Police Department, under the previous administration, had not historically participated in the full town Capital Budget Plan[ning] (CBP) process since 2007. In that CBP, the Police Department included the following:

1. 3.6 Personnel (p. 9 of 28 – 2006 Capital Budget Report)
   a. 2006: POC/PH = 4 & FTE: 6
   b. 2011: POC/PH = 4 & FTE: 7
   c. 2021: POC/PH = 4 & FTE: 7
   d. "The projected increase for the Police Department is based on the addition of a full-time patrol officer by 2011. He police department also proposed an option that would maintain the same staffing levels for the next 15 years but increased the marked fleet from three vehicles to five vehicles and each patrol officer would be assigned a vehicle."
2. 9.2.2 Police Department cruiser replacement schedule (p. 19 of 28 – 2006 Capital Budget Report)
   a. "…The police department recommends the replacement of one marked vehicle every year based on an estimated service life of three years. The police department provided an option of adding two marked vehicles to the fleet and keeping the replacement schedule at one marked vehicle per year. The five marked vehicle option is intended to delay the hiring of additional patrol officers…The police department estimates that $30,000 needs to be contributed to the reserve fund in FY2008 and then increasing over time." The following table was the proposed police department equipment replacement schedule.

b.

Norwich Police Department
Cruiser Replacement Schedule

Fiscal Year	PD Request	Reserve Fund Balance	Current Proposal	Reserve Fund Balance	Expenditure	Equipment Replaced
2007	15,000	15,000	15,000	15,000	-	-
2008	30,000	45,000	30,000	45,000	30,000	EQ2
2009	31,050	46,050	31,050	46,050	31,050	EQ1
2010	32,150	47,150	32,150	47,150	40,000	EQ3
2011	33,275	40,425	33,275	40,425	33,275	EQ2
2012	34,450	41,600	34,450	41,600	34,450	EQ1
2013	35,650	42,800	35,650	42,800	42,800	EQ3
2014	36,900	36,900	36,900	36,900	36,900	EQ2
2015	38,200	38,200	38,200	38,200	38,200	EQ1
2016	47,750	47,750	47,750	47,750	47,750	EQ3
2017	40,800	40,800	40,800	40,800	40,800	EQ2

c. The Board of Selectman (E. Childs, A. May, G. Chapdelaine, J. Candon, S. Lupien) / Capital Budget committee recommended the following appropriations as identified below for maintenance of the current fleet of town vehicles, with reference to the police fleet in 10.4 (10):

Summary of Costs	Fiscal Year						
Item	2007	2008	2009	2010	2011	2012	Notes
Current Debt	$ 143,859	$139,450	$127,468	$121,546	$ 57,746	$ 54,952	Tracy Hall and PW Equipment
Public Safety Facility (7)	$ 18,000	$ 10,000	$109,664	$273,516	$267,632	$261,714	Annual debt costs. Estimate cost = $2.75M.
Fire Station Vehicle Exh Sys (15)		$ 4,100					Match for vehicle exhaust system of $81K.
FD Training Facility (8)		$ 30,000	$ 30,000	$ 30,000	$ 30,000	$ 30,000	
Public Works Facility (6)			$ 35,092	$ 87,525	$ 85,642	$ 83,748	Annual debt costs. Estimated cost = $1.2M.
Fleet							
Fire (10)	$ 95,000	$ 95,000	$ 95,000	$ 87,500	$ 87,500	$ 87,500	
Police (10)	$ 15,000	$ 30,000	$ 31,050	$ 32,150	$ 33,275	$ 34,450	
Public Works (10)	$ 90,000	$116,400	$119,900	$123,500	$127,200	$131,000	
Town Manager (10)	$ 4,800	$ 6,250	$ 6,250	$ 6,250	$ 6,250	$ 6,250	
Fire Department Equipment (11)	$ 10,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	
Tracy Hall (11)	$ -	$ 15,000					Replacement phone system
Solid Waste (11)	$ 17,000	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	Compactor replacement
Town Pool (14)		$ 5,000	$ 5,000	$ 5,000	$ 5,000	$ 5,000	Reconstruction or replacement of dam
Sidewalks (13)	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	
Main Street Corridor (17)		$ 47,000					Local share of $235,000.
Bike/Ped Project (16)			$ 48,203				Local share of $241,000.
Total	$ 418,459	$545,700	$655,127	$814,487	$747,745	$742,115	
Increase over FY 2007		$127,241	$236,668	$396,028	$329,286	$323,656	
Tax Impact (FY 07 GL=$643M)		$ 0.02	$ 0.03	$ 0.06	$ 0.05	$ 0.04	

d.

Department	Item	Type	FY07	FY08	FY09	FY10	FY11	FY12	Total	Notes
Subtotal			*105,000*	*381,225*	*300,000*	*292,500*	*292,500*	*292,500*	*1,663,725*	
Police										
Fleet	Fleet	R	15,000	30,000	31,050	32,150	33,275	34,450	175,925	See schedule of equipment replacement in police department presentation.
Facilities	Police Station	C							1,250,000	Capital project. Reserve funds allocated for continuing study.
Public Works										
Drainage	Main Street	O	4,547	5,601					10,147	Beaver Meadow to Trumbell.
	Beaver Meadow Road	O			2,725				2,725	From Main Street west 270'
	Curbing	O			28,520	8,525	39,990		77,035	Same area as drainage improvements.

CAPITAL BUDGET - ESTABLISHED LINE ITEMS:

In order to establish an effective system for maintaining and replacing the Norwich Police Department Capital Assets, this Capital Budget proposal is being submitted to assist with planning for future financial expenditures. While the prior capital budget only accounted for fleet related expenditures, this proposal addresses a broader range of assets to more appropriately plan for anticipated NPD needs.

Special Equipment Fund	$2,500
Cruiser Capital Exp	$20,000

CAPITAL BUDGET PROGRAM

Town of Norwich, VT
Capital Budget & Program - FYE 2022 - 2027 (July 1 through June 30)

Department:	Life Span	Estimated C	Source(s) of Funding	New Impact on Operational Expenditures (5)	Replacement Date	Fiscal Year, Ending June 30 * FOR PLANNING PURPOSES ONLY * Capital Budget 2022	Capital Program #1 2023	Capital Program #2 2024	Capital Program #3 2025	Capital Program #4 2026	Capital Program #5 2027
Police Department:											
Vehicles (assumes 5/6yr rotation):											
EQ1	5 Years	$60,000	Police Cruiser Fund (Lease Option)	$13K/yr into Cruiser Fund	2022	$ -	$ -	$ -	$ -	$ 68,316	
EQ2	N/A	N/A	Police Cruiser Fund	$ -	N/A	$ -	$ -	$ -	$ -	$ -	$ -
EQ203	5 Years	$60,000	Police Cruiser Fund	$ -	2026	$ -	$ -	$ -		$ 67,640	$ -
EQ4	5 Years	$60,000	Police Cruiser Fund (Lease Option)	$13K/yr into Cruiser Fund	2021	$ -	$ -	$ -	$ -		$ 68,316
Equipment:											
Special Equipment:											
Ballistic Vests	5 Years	$4,000	USDOJ Grant ($2,600)/Equip. Fund ($2,600	$520/yr into Equip. Fund	2024	$ -	$ -	$ 5,200		$ -	$ -
Camera/audio system - car/body (4)		$35,000			2021	$ 5,000					
Firearms (Handguns & Long Guns) (3+3)	10 Years	$8,000	Special Equipment Fund	$300/yr into Equip. Fund	2023,29	$ -	$ 1,500	$ 1,500	$ 1,500	$ -	$ -
Radios (Portable & Desktop) (6+1)	10 Years	$14,000	Special Equipment Fund	$1,700/yr into Equip. Fund	2021	$ 2,000	$ 4,000			$ -	$ -
Shield & Helmets), 1 set/cruiser (4)	10 Years	$5,000	PACIF Grant ($2,500)/Equip. Fund ($2,500)		2021	$ -	$ -	$ -	$ -	$ -	$ -
IT Equipment:											
Computers (MDT's & Peripherals)	5 Years	$6,000	Special Equip. (MDT's)/Gen'l Adm. (Office	$4K/yr into Equip Fund	2025	$ -	$ -	$ -	$ 6,000		
Behavioral Safety:											
Preliminary Breath Test (PBT) Meters	10 Years	$2,000	Behavioral Safety Unit Grant/Equip Fund	$500/yr into Equip Fund	2030	$ -	$ -	$ -			$ -
RADAR/LIDAR (Handheld) (4)	6 Years	$6,000	Behavioral Safety Unit Grant/Equip Fund	$1,200/yr into Equip Fund	2023		$ 2,400				$ -
Speed Signs (Driver Feedback Units)	10 Years	$16,000	Behavioral Safety Unit Grant/Equip Fund	$400/yr into Equip Fund		$ -	$ -	$ -	$ -		
Total, Capital Project Expense						$ 7,000	$ 7,900	$ 6,700	$ 7,500	$ 135,956	$ 68,316

CAPITAL BUDGET JUSTIFICATIONS

Ballistic Vests:	Support: Ballistic vests are an essential component of a law enforcement officers uniform, and have been widely utilized among law enforcement officers in the United States, to maximize safety, for more than three decades. The use of these vests has been directly correlated by the Federal Bureau of Investigation, the US Department of Justice and the National Institute of Justice, with the dramatic reduction in officer homicides. Furthermore, the Norwich Police Department requires officers to wear body armor while engaged in field activities and during uniformed extra-duty or detail employment, and the Union contract requires that the "Town will provide one bullet resistant vest per officer ... to be replaced in accordance with manufacturer's replacement guidelines..." ref: current Union Contract p.9. This purchase is required in order for the Town to remain compliant with the contracted agreement.
	Funding: The Norwich Police Department has applied for and was awarded funding from the 2020 Patrick Leahy Bulletproof Vest Partnership (BVP) funds which allows for 50% reimbursement of monies expended for qualifying ballistic vests.
Camera/audio system - car/body:	Support: On 07/13/2020, Governor Scott signed into law S. 219, an act relating to addressing racial bias and excessive use of force by law enforcement which mandates under Sec. 7. 20 V.S.A. § 1818 "The Department shall ensure that every Department law enforcement officer who exercises law enforcement powers is equipped with a body camera or other video recording device on his or her person." While the initial legislation is currently specifically targeting the State Police, the legislative minutes and notations indicate that this legislation is intended for broader municipal inclusion. Furthermore, the U.S. Department of Justice, through its

	research arm, the National Institute of Justice (NIJ) and the President's Task Force on 21st Century Policing include the use of body-worn cameras and in cruiser cameras as best practices for law enforcement. These studies concluded that officers utilizing body cameras had 87.5% fewer incidents of use of force and 59% fewer complaints than officers who did not utilize the technology. The current in-car camera system utilized by the Norwich Police Department, installed in 2013, is antiquated, unreliable, and incompatible with body-worn cameras. While body worn cameras and in-car camera systems were on the list of equipment to replace, research, and potentially implement, other budgetary needs were more immediate resulting in this line item receiving a lower immediacy rating for implementation. As a result of this new state mandated legislation, and in an effort to remain consistent with best practices, this equipment line item has been moved forward in budgetary expenditure fulfillment.
	Funding: In anticipation of this legislative equipment requirement, the Norwich Police Department has requested quotes for in-car and body camera units, the accompanying required software, license fees, installation costs, and server storage charges. The average anticipated costs of the above are approximately $40,000. As such, the Norwich Police Department is seeking grants to assist with funding this line item, investigating lease options to spread the unanticipated costs out over multiple budget cycles, and researching piece meal options for meeting the expected requirements.
EQ4:	Support: EQ4, is a 2013 Ford Taurus that was purchased approximately 8 years ago in February of 2013, and now has more than 107,000 miles on it. High mileage frequently equates to increased repair costs. Over the last two years EQ4 has undergone $7,000 of mechanical work (not accounting for routine maintenance or the work performed at DPW by the former mechanic). The vehicle has been in service for twice as long as the average service life for police cruisers. It is imperative that NPD officers have a well-maintained fleet that is reliable in performance and safe for officers to drive. As a result of a fire which decimated the NPD fleet, the Norwich Police Department does not currently have a replacement schedule; despite the 3-year replacement schedule established and approved by the Selectboard in 2006. A check of local police departments confirms an average replacement schedule of 4 years. In August of 2019 a 2020 Hybrid was approved for purchase and is anticipated to be on the road by January of 2021. Given the build schedule and average mileage usage of EQ4, the vehicle is expected to have more than 130,000 miles

	of drive time by the time of replacement. NPD intends to reduce the fleet from four vehicles to three, eliminating EQ2 upon the end of its useful life and not replacing it. It becomes even more imperative that the fleet be in proper operable condition with this anticipated reduction in vehicles as the department will not have another cruiser to utilize while the necessary repairs are being conducted.

Local Communities PD cruiser rotation schedules

	Local Police Department	Scheduled rotation	Confirming officer
1.	Enfield, NH Police	4 years	Lieutenant Luke Frye
2.	Hanover, NH Police	3 years	Dispatcher Coord. Doug Hackett
3.	Ludlow, VT Police	3-5 years	Chief Jeffrey Billings
4.	Plainfield, NH Police	5 years	Chief Paul Roberts
5.	Thetford, VT Police	4 years	Chief Michael Evans
6.	Windsor, VT Police	4 years	Sergeant Jon Adams
7.	Woodstock, VT Police	4 years	Chief Robbie Blish

	Funding: The Norwich Police Department has an established designated fund for cruiser replacements. Current fund: $91,032 Pending expenses: $37,267 – 2020 Hybrid vehicle = $53,765 Pending expenses: $17,706 – 2020 Hybrid upfit = $36,059 Pending revenue: $10,000 – Sale of EQ3 = $46,059 Allocated funding: $10,000 – 2020 Capital Budget = $56,059 Allocated funding: $20,000 – 2021 Capital Budget = $76,059 $76,059 available funds July 1, 2021 for replacement of EQ4 EQ4: Replacement order expected in 2021 EQ3: replaced in 12/2020 with EQ203 (ordered in 8/2019) EQ2: Will not be replaced – phased out at end of useful life reducing fleet by 1 vehicle EQ1: Replacement order expected in 2022
Firearms (Handguns & Long Guns) (5+3)	Support: Firearms are utilized when necessary to stop the threat of deadly force or serious bodily injury against one's self or a third party, or to dispatch injured wild animals. The U.S. Department of Justice Office of Justice Programs National Institute of Justice and the Federal Bureau of Investigation list the service life of police firearms as: 10 years. The current long guns in use were purchased in 02/2013 and are due for replacement in 2023. Due to budget constraints, NPD is recommending a capital budget replacement schedule of 2023, 2024 and 2025 which would result in a 10yr, 11yr, and 12 yr service life for the long guns, and limiting the replacement purchase to 3 instead of 4 long guns as the fleet would be reduced by 1 vehicle.

	Funding: The Norwich Police Department has an established designated fund for special equipment purchases. As in the replacement of the handguns, the police department intends to seek discounts and special municipal offerings to reduce the costs of replacement.
Preliminary Breath Test Meters:	Support: Preliminary breath test devices (PBT) are a standard tool utilized by law enforcement to estimate the measurement of an individual's deep lung alcohol concentration. During the last 9 months, the Norwich Police Department has responded to 11 motor-vehicle crashes that were alcohol related, some of which were fatalities, and to multiple other domestic related and civil disturbances of which alcohol use was a factor.
	Funding: The Norwich Police Department applied for and was awarded funding from the OP/DUI grant for four new PBT's and 300 breath tubes. The PBT's are valued at $555.00 each and the total cost for the tubes are $99.00 totaling a grant award of $2,319.00 to the Norwich Police Department. The grant was a no cost grant (ie: no 50/50 requirement) and was awarded to NPD via application through our joint task force with the Rutland County Sheriff's Office. Through the application and receipt of the grant, NPD was able to save the town $2,319.00 that would have typically been expended out of the Special equipment line item. As such, the PBT's have been removed from the 5-year projected Capital Budget schedule as they would have been up for replacement in 2023 but will now be due for replacement in 2030.
RADAR/LIDAR:	Support: Handheld radar units are utilized by officers in the department for speed enforcement activities. Unlike the mounted units in the patrol vehicles which are unidirectional allowing only for monitoring of front and rear moving vehicles, the handheld radar units offer increased flexibility for where an officer may stand and or park when running radar. This increases officer safety as police cruisers can be parked off of the roadway minimizing the likelihood of being struck by a distracted motorist. Traffic enforcement activities typically provide a revenue of $10,000 - $15,000 back to the Town of Norwich.
	Funding: The Norwich Police Department applied for and was awarded funding from the Distracted Driving Behavior Safety Unit grant for one mobile and one in-car radar unit. The grant was a no cost grant (ie: no 50/50 requirement) and was awarded to NPD via application through our joint Distracted Driving task force. Through the application and receipt of the grant, we were able to save the town $4,501.50 that would have been expended out of the Special Equipment and Designated cruiser replacement funds. As such, the RADAR expected

	expenditure line has been decreased in the Capital Budget to account for the partial fulfillment / replacement of equipment.
Radios (Portable & Desktop):	Support: The Norwich Police Department currently utilizes portable radios that were purchased in 2011 for interdepartmental transmissions and communication with Dispatch. These radios do not have sufficient bandwidth to transmit in multiple locations across Norwich, and are vulnerable to interference from nearby electronic equipment such as microwave ovens, cellular phones, Bluetooth devices, cameras, Wi-Fi hotspots, televisions, etc. They do not meet the specifications required to communicate with Hanover, NH Police Department, the closest full-time police department for agency assists, nor will they communicate with the Norwich Fire Department radios (VHF v UHF). The service life of police radios is 10 years with the expected replacement date of 2021.
	Funding: The Norwich Police Department continues to seek grant funding to assist with the replacement of radios. As this line item has not been filled since 2011, the budget does not currently have a mechanism for expending funding on radio equipment as the previous funding was obtained through a grant.
Shield & Helmets:	Support: The NEPBA Town of Norwich Union Contract, ratified on 10/15/2020 and scheduled to become effective 10/28/2020 upon Selectboard signing, with some provisions retroactive, negotiated an agreement for the Town, via the Police Department, to "…provide one bullet resistant vest per officer *and one shield and semi-universal helmet per cruiser* to be replaced in accordance with manufacturer's replacement guidelines…" ref: current Union Contract p.9. This was not a scheduled purchase, nor a component of the larger strategic plan however, this purchase is required in order for the Town to remain compliant with the contracted agreement.
	Funding: The Norwich Police Department applied for and was awarded the 2020 PACIF grant which allows for 50% reimbursement of 4 Law Enforcement Ballistic Helmets @ 309.00 each ($1,236) and 3 Entry Shields @ $1,260 each ($3,780) = Total $5,016 ($2,508 reimbursable expenses / $2,508 budgeted funds)

NEEDS ASSESSMENT:

REPLACING the NFD Fleet

Town of Norwich,
Vermont
Fire Department

It is a generally accepted fact that Fire Apparatus has a finite life. The length of that life depends on many factors, including vehicle mileage, engine hours, the quality of preventative maintenance, whether the fire apparatus was used within the design parameters, whether the apparatus was manufactured on a custom or commercial chassis, the quality of workmanship by the original manufacturer, the quality of the components used and the availability of replacement parts, to name a few.[1]

A fire apparatus is an emergency vehicle that must be relied upon to transport fire fighters safely to and from an incident and to operate reliably and properly to support the mission of the fire department. A piece of fire apparatus that breaks down at any time during an emergency operation not only compromises the success of the operation, it might jeopardize the safety of the fire fighters relying on that apparatus to support their role in the operation. An old, worn-out, or poorly maintained fire apparatus has no role in providing emergency services to a community.[2]

To maximize firefighting capabilities while minimizing risk of firefighter injuries, it is important that fire apparatus be equipped with the latest safety features and operating capabilities. Changes and upgrades to The National Fire Protection Association (NFPA) 1901 standard have been truly significant, especially in the area of safety. Fire departments should seriously consider the risk to fire fighters of keeping fire apparatus more than 15 years old in first-line service.[3]

The Norwich Fire Departments' fleet of vehicles is beginning to age-out and no longer conform to the strictures and requirements of NFPA 1901. NFPA 1901, the *Standard for Automotive Fire Apparatus*, is the accepted standard for fire departments organizing the purchase assessment and process. NFPA 1901 is a nationwide, nonbinding, voluntary, consensus standard describing minimum requirements for new apparatus.[4] NFPA 1901, requested consultations with subject matter experts and the NFD's own particular service requirements will be the guiding forces of this important capital purchase.

---

[1] *See* Annex D2 Guidelines for First-line & Reserve Fire Apparatus; NFPA 1901 2016 Ed.
[2] *See* Annex D6 Guidelines for First-line & Reserve Fire Apparatus; NFPA 1901 2016 Ed.
[3] *See* Annex D1 Guidelines for First-line & Reserve Fire Apparatus; NFPA 1901 2016 Ed.
[4] Meeting the Intent of NFPA 1901 Bill Adams; The Rig Fire Apparatus & Emergency Equipment Journal; August 8, 2018

Town of Norwich fire apparatus must be relied on to transport fire fighters safely to and from an incident and to operate reliably and properly to support the mission of our fire department. A piece of fire apparatus that breaks down at any time during an emergency operation not only compromises the success of the operation but might jeopardize the safety of the fire fighters relying on that apparatus to support their role in the operation. An old, worn-out piece of fire apparatus has no role in providing emergency services to our community.

Sincerely,

Alexander Northern

Town of Norwich Fire Chief

PENTHEON
holmatro
holmatro
holmatro
holmatro
holmatro
151.001.188
A
B
C

SCBA PACKAGE EXHIBIT

3M | SCOTT™ Fire & Safety

Features and Benefits

3M™ Scott™ Air-Pak™ X3 Pro SCBA

NFPA 1981/1982, 2018 Edition

Features	Benefits
As Long As You Own It Warranty	Gain peace of mind knowing that your most important investment is backed for the lifetime ownership of the product
New Harness Materials	**Offers greater resistance to chemical exposure and less water absorption, helping to minimize contamination;** **Provides improved durability to withstand the rigors of the fireground;** **Improves SCBA ergonomics to help reduce user fatigue and enhance comfort**
Removable Harness	Easy-to-remove harness allows for cleaning to help with exposure reduction, while also improving serviceability
New Shoulder Harness Design	**Improves the ease of donning the SCBA and minimizes pressure points to help reduce user fatigue and improve comfort**
Natural Articulation	Promotes greater range of motion to the firefighter, while transferring weight to the hips for a more balanced load; Minimizes wear and tear commonly found with mechanical articulation
Proven Regulator Design	**Offers low breathing resistance to help reduce user burden and improve operational efficiencies**
Redundant Safety Features	Affords firefighters peace of mind knowing that the SCBA will perform in the toughest environments; Provides reliability and performance to ensure the safety of firefighters
New Buckle Design	**Provides firm hold to prevent inadvertent loosening of shoulder and waist straps, to help provide a secure fit of SCBA on the firefighter**
Bluetooth® Enabled Electronics	Supports wireless connectivity between devices for improved configurability, data transmission/retrieval, firefighter safety and fireground accountability
Electronic PAR (ePAR)	**Provides wireless, bi-directional communication between the firefighter and incident command (using Monitor Pro telemetry software) to improve fireground accountability and communications**
System Integrity Alarm	Visual and audible alert to notify SCBA wearer and incident command (using Monitor Pro telemetry software) of impending electronics degradation due to elevated temperature

Features	Benefits
High Flow Alarm	Visual and audible alert to notify incident command (using Monitor Pro telemetry software) of a high flow condition from a firefighter's SCBA during a full-alarm PASS activation (i.e. heavy breathing, free flow, etc.)
No Flow Alarm	**Visual and audible alert to notify incident command (using Monitor Pro telemetry software) of a no flow condition from a firefighter's SCBA during a full-alarm PASS activation**
Integrated RFID Tags	Provides local storage of SCBA information that can be wirelessly interrogated for asset tracking
3M™ Scotchlite™ Reflective Material	**Enhances visibility of the SCBA harness and webbing when operating in low light conditions, improving safety and accountability on the fireground**
"Buddy" Lights	Optimally positioned on the backframe to enable a 360° view of the firefighter's air pressure and PASS status
Integrated Drag Rescue Loop	**Sewn into SCBA harness and attached to backframe, providing a horizontal pull strength of 1000 lbs to assist with rescuing a downed firefighter**
Aluminum Alloy Backframe	Lightweight, durable design to withstand the rigors of the fireground

3M Scott Fire & Safety
Personal Safety Division
Monroe Center, P.O. Box 569
Monroe, NC 28111

Phone 1-800-247-7257
Email Us-3m-ScottMonroeCSR@mmm.com
Web 3MScott.com

H/S 7617 RevE _EN 10/19 ISO 9001 Registered.
Please recycle. Printed in USA © 3M 2019. All rights reserved.
3M and Scott are trademarks of 3M.

NFD Capitol *Apparatus Designated Fund* Replacement Schedule

Apparatus	Build Year	Replacement Value (2021)	Replacement Year	Current Age	Usable Life	Replacement Age	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30
Engine 1	2005	$ 550,000	2030	15	22	25										$ 657,301
Engine 2	2000	$ 550,000	2022	20	20	22		$ 550,000								
Tanker 1	2002	$ 220,000	2028	18	25	26								$ 252,711		
Ladder 1	1991	$ 400,000	2026	29	30	35						$ 441,632				
Utility 1	2019	$ 125,000	2039	1	20	20										
Car 1	2013	$ 35,000	2024	7	10	11				$ 37,142						
Beginning Balance							$ 576,295	$ 636,295	$ 156,295	$ 236,295	$ 289,153	$ 389,153	$ 57,520	$ 177,520	$ 54,810	$ 194,810
Appropriation							$ 60,000	$ 70,000	$ 80,000	$ 90,000	$ 100,000	$ 110,000	$ 120,000	$ 130,000	$ 140,000	$ 150,000
Interest Earnings							$ 11,526	$ 12,726	$ 3,126	$ 4,726	$ 5,783	$ 7,783	$ 1,150	$ 3,550	$ 1,096	$ 3,896
Expenses							$ -	$ 550,000	$ -	$ 37,142	$ -	$ 441,632	$ -	$ 252,711	$ -	$ 657,301
Ending Balance							$ 636,295	$ 156,295	$ 236,295	$ 289,153	$ 389,153	$ 57,520	$ 177,520	$ 54,810	$ 194,810	$ (312,491)

Variables

Interest Rate Used for Interest Earnings: 2%
Inflation Rate Used for Equipment Purchases 2%
Annual Increase in Appropriation: $ 10,000

Notes

The current replacement value of the fleet is about $1.9 million.
Assuming a 20 year replacement schedule the annualized cost is about $95,000.
Engine 1, Engine 2 and Tanker 1 were replaced in a five year period from 2000 to 2005. We have tried to extend this replacement schedule to better distribute the expendatures.

NFD Capitol *Equipment Designated Fund* Replacement Schedule

Planned Equipment Replcement	Units	2020 Unit Replacement Value	2020 TOTAL Replacement Value	Model Year	Service Life	Replacement FY	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30
SCBA Package	18	$ 7,220	$ 129,960	2004	15	2023			$ 137,915							
SCBA Cylinders	42	$ 1,050	$ 44,100	Multiple	15	21, '22 & '	$ 1,071	$ 5,355								
Fire PPE	30	$ 3,000	$ 90,000	Multiple	10	3 sets / yr	$ 9,180	$ 9,364	$ 9,551	$ 9,742	$ 9,937	$ 10,135	$ 10,338	$ 10,545	$ 10,756	$ 10,971
Auto Extraction Tool	1	$ 16,000	$ 16,000	2004	15	2022		$ 16,646								
Portable Radios	30	$ 3,000	$ 90,000	2015	10-15	2030										$ 109,709
Beginning Balance							$ 107,617	$ 117,994	$ 116,629	$ 164	$ 16,422	$ 32,485	$ 48,349	$ 64,011	$ 79,466	$ 94,711
Appropriation							$ 20,628	$ 30,000	$ 31,000	$ 26,000	$ 26,000	$ 26,000	$ 26,000	$ 26,000	$ 26,000	$ 26,000
Interest Earnings							$ 2,152	$ 2,360	$ 2,333	$ 3	$ 328	$ 650	$ 967	$ 1,280	$ 1,589	$ 1,894
Expenses							$ 10,251	$ 31,365	$ 147,465	$ 9,742	$ 9,937	$ 10,135	$ 10,338	$ 10,545	$ 10,756	$ 120,680
Ending Balance							$ 117,994	$ 116,629	$ 164	$ 16,422	$ 32,485	$ 48,349	$ 64,011	$ 79,466	$ 94,711	$ 30

Variables

Interest Rate Used for Interest Earnings: 2%
Inflation Rate Used for Equipment Purchases: 2%

Justifications

SCBA Harness - NFPA 1852 requires SCBA harnesses to be replaced once the service life has been reached.
SCBA Cylinder - NFPA 1852 requires SCBA cylinders to be replaced once the 15 year service life has been reached; In 2023, we will have 22 cylinders that need replacing.
Fire PPE - NFPA 1851 requires that any element (helmet, hood, gloves, boots, turnout coat, and trousers) of the PPE ensemble be removed from service after ten years from the date of manufacter.

Notes

SCBA Package quoted are for SCOTT X3 Pro, HT Mask, with a 2 for 1 cylinder purchase that will replace our 22 retiring cylinders in 2023. This means 11 units with cylinders and 7 without. Price reflects state bid
SCBA Cylinders quoted are SCOTT 4500psi 30' bottles.
Fire PPE quoted is a set of GLOBE structural firefighting jacket and pants with Ranger rubber boots. Helmet, hood, gloves, highway vest, and eye protection are paid for out of our operating budget.
Auto Extrication Tools like Holmatro electric extrication tools cost roughly $12k for each cutter, spreader and ram ($36,000 total). A combi tool is roughly $16k.
Portable Radios quoted are Kenwood VP6000 Series with Charger, Battery, Speaker Mic, Antenna, MDC Coding and P25 SW License.

NFD Capitol Equipment Inventory (Exhibit A)

Item	Number	Unit Replacement Value	Replacement Value	Model Year	Usable Life	Annual Depreciation
SCBA	18	$ 6,600	$ 118,800	2004	20	$ 5,940
SCBA Cylinder	42	$ 1,040	$ 43,680	Multiple	15	$ 2,912
Thermal Imaging Cameras	2	$ 8,500	$ 17,000	2004	10	$ 1,700
Multi-Gas Meter	2	$ 1,700	$ 3,400	2014	10	$ 340
Rad-57 (SpO2 SpCO)	1	$ 1,300	$ 1,300	2005	10	$ 130
SCBA Compressor	1	$ 14,500	$ 14,500	2006	30	$ 483
Portable Pumps (500 & 750 gpm	2	$ 5,000	$ 10,000	2002	20	$ 500
Portable Generator	1	$ 1,300	$ 1,300		15	$ 87
PPV Fan	2	$ 2,500	$ 5,000		20	$ 250
NPV Fan	3	$ 1,000	$ 3,000		20	$ 150
Vent Saws	3	$ 1,300	$ 3,900		10	$ 390
Washer/Extractor	1	$ 10,000	$ 10,000	2004	20	$ 500
PowerHawk (Jaws)	1	$ 15,000	$ 15,000		20	$ 750
Fire PPE	30	$ 2,500	$ 75,000		10	$ 7,500
Fire Helmets	20	$ 300	$ 6,000		10	$ 600
Fire Boots	20	$ 250	$ 5,000		10	$ 500
EMS PPE	23	$ 600	$ 13,800		10	$ 1,380
Kenwood Portable Radios	30	$ 3,000	$ 90,000		10	$ 9,000
Pagers	40	$ 350	$ 14,000		10	$ 1,400
Computer	2	$ 1,200	$ 2,400		5	$ 480
AEDs	8	$ 1,700	$ 13,600		12	$ 1,133
Hi-Ex Foam Generator	1	$ 6,500	$ 6,500		50	$ 130
Salvage Master	1	$ 1,200	$ 1,200		20	$ 60
Hose						
4" (100')	50	$ 520	$ 26,000		20	$ 1,300
2½" (50')	60	$ 180	$ 10,800		20	$ 540
1¾" & 2" (50')	48	$ 120	$ 5,760		20	$ 288
1" (100')	25	$ 90	$ 2,250		15	$ 150
Nozzles	20	$ 800	$ 16,000		20	$ 800
Small Tools and Equipment			$ 10,000		20	$ 500
Total			**$ 545,190**			**$ 39,893**

Town of Norwich, VT
Capitol Equipment Budget Request Form
FYE 2021

Department: Norwich Fire Department
Date: 10/15/2020
Account/Title: Capitol Equipment Desig. Fund
Account #: 25-5-555-3222
Description of Activity: Purchase of Fire PPE
Funds to Purchase Capital Equipment Item

Detail (Sub-Line Item)			FYE 2021 Proposed
Purchase of Fire PPE			$9,180
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
Total:			**$ 9,180.00**

Justification:
Meeting the National Standard for replacement of PPE. NFPA 1
Fire PPE - NFPA 1851 requires that any element (helmet, hood,
Revenue Stream-Capital Equipment Designated Fund; Fema/Lo

Town of Norwich, VT
Capitol Equipment Budget Request Form
FYE 2022

Department: Norwich Fire Department
Date: 10/15/2020
Account/Title: Capitol Equipment Desig. Fund
Account #: 25-5-555-3222
Description of Activity: Purchase of Fire PPE
Funds to Purchase Capital Equipment Item

Detail (Sub-Line Item)			FYE 2022 Proposed
Purchase of Fire PPE			$9,364
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
Total:			**$ 9,364.00**

Justification:

Meeting the National Standard for replacement of PPE. NFPA 1
Revenue Stream-Capital Equipment Designated Fund; Fema/Lo

Town of Norwich, VT
Capitol Equipment Budget Request Form
FYE 2023

Department: Norwich Fire Department
Date: 10/15/2020
Account/Title: Capitol Equipment Desig. Fund
Account #: 25-5-555-3222
Description of Activity: Purchase of Fire PPE
Funds to Purchase Capital Equipment Item

Detail (Sub-Line Item)			FYE 2023 Proposed
Purchase of Fire PPE			$9,551
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
Total:			**$ 9,551.00**

Justification:

Meeting the National Standard for replacement of PPE. NFPA 1
Revenue Stream-Capital Equipment Designated Fund; Fema/Lo

Town of Norwich, VT
Capitol Equipment Budget Request Form
FYE 2024

Department: Norwich Fire Department
Date: 10/15/2020
Account/Title: Capitol Equipment Desig. Fund
Account #: 25-5-555-3222
Description of Activity: Purchase of Fire PPE
Funds to Purchase Capital Equipment Item

Detail (Sub-Line Item)			FYE 2024 Proposed
Purchase of Fire PPE			$9,742
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
Total:			**$ 9,742.00**

Justification:

Meeting the National Standard for replacement of PPE. NFPA 1
Revenue Stream-Capital Equipment Designated Fund; Fema/Lo

Town of Norwich, VT
Capitol Equipment Budget Request Form
FYE 2025

Department: Norwich Fire Department
Date: 10/15/2020
Account/Title: Capitol Equipment Desig. Fund
Account #: 25-5-555-3222
Description of Activity: Purchase of Fire PPE
Funds to Purchase Capital Equipment Item

Detail (Sub-Line Item)			FYE 2025 Proposed
Purchase of Fire PPE			$9,937
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
Total:			**$ 9,937.00**

Justification:

Meeting the National Standard for replacement of PPE. NFPA 1
Revenue Stream-Capital Equipment Designated Fund; Fema/Lo

Town of Norwich, VT
Capitol Equipment Budget Request Form
FYE 2026

Department: Norwich Fire Department
Date: 10/15/2020
Account/Title: Capitol Equipment Desig. Fund
Account #: 25-5-555-3222
Description of Activity: Purchase of Fire PPE
Funds to Purchase Capital Equipment Item

Detail (Sub-Line Item)			FYE 2026 Proposed
Purchase of Fire PPE			$10,135
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
Total:			**$ 10,135.00**

Justification:

Meeting the National Standard for replacement of PPE. NFPA 1
Revenue Stream-Capital Equipment Designated Fund; Fema/Lo

Town of Norwich, VT
Capitol Equipment Budget Request Form
FYE 2027

Department: Norwich Fire Department
Date: 10/15/2020
Account/Title: Capitol Equipment Desig. Fund
Account #: 25-5-555-3222
Description of Activity: Purchase of Fire PPE
Funds to Purchase Capital Equipment Item

Detail (Sub-Line Item)			FYE 2027 Proposed
Purchase of Fire PPE			$10,338
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
Total:			**$ 10,338.00**

Justification:

Meeting the National Standard for replacement of PPE. NFPA 1
Revenue Stream-Capital Equipment Designated Fund; Fema/Lo

Town of Norwich, VT
Capitol Equipment Budget Request Form
FYE 2023

Department: Norwich Fire Department
Date: 10/15/2020
Account/Title: Capitol Equipment Desig. Fund
Account #: 25-5-555-3222
Description of Activity: Purchase of SCBA Package
Funds to Purchase Capital Equipment Item

Detail (Sub-Line Item)	FYE 2023 Proposed
Purchase of SCBA Package	$137,915
	$ -
	$ -
	$ -
	$ -
	$ -
	$ -
	$ -
Total:	**$ 137,915.00**

Justification:

SCBA Package quote is for SCOTT X3 Pro, HT Mask, with a 2 for
SCBA Harness (SCOTT X3 Pro) - NFPA 1852 requires SCBA harne
Revenue Stream-Capital Equipment Designated Fund; Fema/Lo
See AirPak Features & Benefits; See also SCBA Package Exhibit

Town of Norwich, VT
Capitol Equipment Budget Request Form
FYE 2021

Department: Norwich Fire Department
Date: 10/15/2020
Account/Title: Capitol Equipment Desig. Fund
Account #: 25-5-555-3222
Description of Activity: Purchase of SCBA Cylinder
Funds to Purchase Capital Equipment Item

Detail (Sub-Line Item)			FYE 2021 Proposed
Purchase of SCBA Cylynder			$1,071
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
Total:			**$ 1,071.00**

Justification:
SCBA Cylinders quoted are SCOTT 4500psi 30' bottles
NFPA 1852 requires SCBA cylinders to be replaced once the 15 y
Revenue Stream-Capital Equipment Designated Fund; Fema/Lo

Town of Norwich, VT
Capitol Equipment Budget Request Form
FYE 2022

Department: Norwich Fire Department
Date: 10/15/2020
Account/Title: Capitol Equipment Desig. Fund
Account #: 25-5-555-3222
Description of Activity: Purchase of SCBA Cylinder
Funds to Purchase Capital Equipment Item

Detail (Sub-Line Item)			FYE 2022 Proposed
Purchase of SCBA Cylynder			$5,355
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
Total:			**$ 5,355.00**

Justification:
SCBA Cylinders quoted are SCOTT 4500psi 30' bottles
NFPA 1852 requires SCBA cylinders to be replaced once the 15 y
Revenue Stream-Capital Equipment Designated Fund; Fema/Lo

Town of Norwich, VT
Capitol Equipment Budget Request Form
FYE 2022

Department: Norwich Fire Department
Date: 10/15/2020
Account/Title: Capitol Equipment Desig. Fund
Account #: 25-5-555-3222
Description of Activity: Purchase of Auto Extrication Combi-Tool
Funds to Purchase Capital Equipment Item

Detail (Sub-Line Item)			FYE 2022 Proposed
Purchase of Auto Extrication Combi-Tool			$16,646
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
Total:			**$ 16,646.00**

Justification:
See Holmatro Combi-Tool jpg
Our current Combi-Tool is 16 yrs old and no longer technologica
Revenue Stream-Capital Equipment Designated Fund; Fema/Lo

Town of Norwich, VT
Capitol Equipment Budget Request Form
FYE 2030

Department: Norwich Fire Department
Date: 10/15/2020
Account/Title: Capitol Equipment Desig. Fund
Account #: 25-5-555-3222
Description of Activity: Purchase of Portable Radios
Funds to Purchase Capital Equipment Item

Detail (Sub-Line Item)	FYE 2030 Proposed
Purchase of Portable Radios	$109,709
	$ -
	$ -
	$ -
	$ -
	$
	$ -
	$ -
Total:	**$ 109,709.00**

Justification:
No longer technologically viable; increased maintenance costs;
Portable Radios quoted are Kenwood VP6000 Series with Charg
Revenue Stream-Capital Equipment Designated Fund; Fema/Lo

Town of Norwich, VT
Capitol Equipment Budget Request Form
FYE 2022

Department: Norwich Fire Department
Date: 10/15/2020
Account/Title: Capitol Apparatus Desig. Fund
Account #: 06-3-001300
Description of Activity: Purchase of Fire Apparatus
Funds to Purchase Capital Apparatus Item

Detail (Sub-Line Item)			FYE 2022 Proposed
Purchase Replacement of Engine 2			$ 550,000.00
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
Total:			**$ 550,000.00**

Justification:
See Engine 2 Justification-Needs Assesment Document

Revenue Stream-Capital Apparatus Designated Fund; Fema/Loca

Town of Norwich, VT
Capitol Equipment Budget Request Form
FYE 2024

Department: Norwich Fire Department
Date: 10/15/2020
Account/Title: Capitol Apparatus Desig. Fund
Account #: 06-3-001300
Description of Activity: Purchase of Fire Apparatus
Funds to Purchase Capital Apparatus Item

Detail (Sub-Line Item)			FYE 2024 Proposed
Purchase Replacement for Car 1			$37,142
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
Total:			**$ 37,142.00**

Justification:

See Engine 2 Justification-Needs Assesment Document
Revenue Stream-Capital Apparatus Designated Fund; Fema/Local

Town of Norwich, VT
Capitol Equipment Budget Request Form
FYE 2026

Department: Norwich Fire Department
Date: 10/15/2020
Account/Title: Capitol Apparatus Desig. Fund
Account #: 06-3-001300
Description of Activity: Purchase of Fire Apparatus
Funds to Purchase Capital Apparatus Item

Detail (Sub-Line Item)			FYE 2026 Proposed
Purchase of Replacement for Ladder 1			$441,632
			$ -
			$ -
			$ -
			$ -
			$
			$ -
			$ -
Total:			**$ 441,632.00**

Justification:
See Ladder 1 Justification-Needs Assesment Document
See Justification-Needs Assesment Document
Revenue Stream-Capital Apparatus Designated Fund; Fema/Loca

Town of Norwich, VT
Capitol Equipment Budget Request Form
FYE 2028

Department: Norwich Fire Department
Date: 10/15/2020
Account/Title: Capitol Apparatus Desig. Fund
Account #: 06-3-001300
Description of Activity: Purchase of Fire Apparatus
Funds to Purchase Capital Apparatus Item

Detail (Sub-Line Item)			FYE 2028 Proposed
Purchase of Replacement for Tanker 1 Fire Apparatus			$252,711
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
Total:			**$ 252,711.00**

Justification:

See FY21-22 Justification for Replacing NFD Fire Apparatus
Revenue Stream-Capital Apparatus Designated Fund; Fema/Loca

Town of Norwich, VT
Capitol Equipment Budget Request Form
FYE 2030

Department: Norwich Fire Department
Date: 10/15/2020
Account/Title: Capitol Apparatus Desig. Fund
Account #: 06-3-001300
Description of Activity: Purchase of Fire Apparatus
Funds to Purchase Capital Apparatus Item

Detail (Sub-Line Item)			FYE 2030 Proposed
Purchase of Replacement Engine 1			$657,301
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
Total:			**$ 657,301.00**

Justification:
FY21-22 Justification for Replacing NFD Fire Apparatus

Revenue Stream-Capital Equipment Designated Fund; Fema/Loca

Ladder 1 is still a benefit to the Town, and remains an integral part of the Fire Department fleet composition. It benefits the town both operationally and financially. It is worth keeping, maintaining and replacing.

Facts & Discussion: [1]

1. The circumstance that originally led to the aforementioned conclusion was a failed annual aerial ladder inspection, and the concomitant cost to repair what caused the failed inspection. The initial quoted cost of repair to bring the aerial ladder back into certification was quite pricey (~ $7,000). After seeking second and third repair opinions, the repairs actually turned out to be somewhat minor (~ 3,500) compared to the original estimate. This cost is being absorbed by our departmental operational repair & maint. budget.

2. Since the repair cost is no longer prohibitive, there is actually more utility in keeping the ladder as a part of the Norwich Fire Department fleet. There are two main reasons that we should have a Ladder Truck:

   (A) Operational Safety & Efficiency – The Ladder Truck allows the NFD to fight chimney fires and conduct other ladder-based operations in a manner that is both safer and more efficient than using ground ladders. We use our aerial ladder to access locations/fires that are either highly dangerous to our firefighters or impossible to reach using ground ladders. Norwich has many of these structures.

   NFD Ladder 1 is a 75 foot aerial ladder truck, equipped with a 1750 GPM pump and a 300 gallon water tank (see pictures at end of report). It serves multiple functions as a service truck, pumper and aerial, and has an assortment of ground and roof ladders that are *more versatile and longer* than the ones that can be carried on NFD Engines 1 & 2.

   Engines 1 & 2 have 8 total SCBAs (air packs) - not enough to support our high ISO rating – and Ladder 1 carries additional SCBA packs to fulfill that ISO requirement. Ladder 1 carries salvage covers, a water vacuum and other important equipment to minimize property damage. It has an aerial ladder which makes it safer and requires fewer firefighters to work on a roof or chimney fire. It functions as a backup pumper, if Engines 1 or 2 are out of service. It also provides elevated master stream water operations at major fires. And, while not it's operational purpose, it has been used to benefit the Norwich community for a variety of service details including replacing the

[1] Thanks to retired Chief Fulton and current Deputy Chief Swett for their contributions to this analysis.

crucifix on one of our Town churches, adding a weather vane to the top of MCS and serving as a flag anchor for important funeral services and community celebrations.

(B) Maintaining the Town's Excellent ISO Rating – The Ladder Truck serves multiple operational roles and therefore is integral in maintaining our town's high ISO rating. This rating saves taxpayers a significant amount of money on residential and commercial insurance – an estimated annual $75,000-80,000 community wide savings for our Class 4 rating verses a Class 5 rating. Removing the Ladder Truck from the fleet will trigger a full ISO review. Its removal will result in a lower ISO rating for the town – a Class 5 or possibly a Class 6 - and burden the administrative and volunteer resources to prepare the audit documentation and conduct the required water supply testing evolutions.

Understanding the importance of subsection "B" is vital. Therefore, I would like to elaborate on the history behind the current Norwich Fire Department fleet composition and what the Insurance Services Office (ISO) Public Protection Classification (PPC) is, and how it relates to keeping and maintaining Ladder 1.

Most insurance companies use the ISO PPC to determine fire and homeowners' costs. The ISO is a service company to the insurance industry. Fifty percent of the PPC is based on the fire department, 40% on fire protection water supply and 10% on emergency communications including dispatch services.

PPCs range from a low of Class 10, meaning no protection, to a high of Class 1, the highest level of protection. Prior to 1999, Norwich received a Class 5 within the areas served by the Fire District water system (a.k.a. the hydrant district), Class 9 within five road miles of the fire station and Class 10 for properties more than five road miles of the fire station.

Between 1995 and 1999, major improvements occurred in nearly every facet of our Fire Department. This included an increased number of inhouse trainings and Vermont Fire Academy required board certifications, significantly improving Personal Protective Equipment (PPE), complying with updated OSHA and NFPA standards, creating a set of Standard Operating Procedures, developing run-cards with auto-aid and mutual aid response assignments, developing a rural water supply plan with dry hydrants and certified drafting points and conducting an apparatus needs assessment and replacement plan. *This needs assessment identified that the minimum fleet composition to achieve operational efficiency and firefighter safety, provide a high level of fire and rescue services to Norwich and earn the best possible ISO rating was 2 pumpers (engines), 1 tanker, 1 ladder and 1 forestry/utility.* As a result of this plan, over time, the NFD fleet was reduced from 4 pumpers to 2. Norwich has had a ladder truck since, at least, 1985.

In 1999 the benefits of this multi-year overhaul were realized when an extensive on-site ISO evaluation resulted in significant improvements in the town's ISO PPC rating. The review of Norwich fire protection in accordance with the Fire Suppression Rating Schedule (FSRS) and the PPC was changed to Class 4 within 5 road miles of the fire station and 10 more than 5 road miles from the fire station. This resulted in a significant reduction, in some rural areas of Norwich as much as a 50% reduction, in the cost of homeowner's insurance for properties within 5 road miles from the fire station. A 2004 memo to the Town Manager noted that the improvement in our ISO rating resulted in "an annual community wide insurance savings of more than $225,000" (this was a conservative estimate for residential insurance savings in 2004).

At the time of the 1999 change in the PPC, there were only two other towns in Vermont with better fire protection classifications, and they both had full-time personnel. In addition, there were no towns in Vermont with a better classification than Norwich for an area not served by a municipal water system. This resulted in a significant insurance premium saving for properties within five road miles of the fire station, yet outside the Fire District's water service area.

In 2014, ISO reviewed the PPC for Norwich, based on a major revision to the Fire Suppression Rating Schedule, and kept it a 4/10, still one of the highest PPCs in Vermont for a paid-on-call fire department and without a town-wide municipal water supply. The PPC of 4 applies to the area within 5 road miles of the fire station and the 10 to areas beyond 5 road miles from the fire station.

As a further elaboration, our ISO PPC requires a 2,000 GPM basic fire flow from our pumping apparatus. To achieve this requirement, two engine companies and one backup engine company are required. Our ladder truck serves as the backup pumper. It also serves as the ISO required service ladder truck.

If we do not have a service ladder truck, an ISO review will drop our PPC from 4 to 5 and possibly lower. A decrease in the ISO PPC from 4 to 5 will probably increase homeowner's residential insurance costs by 4.8% and commercial building insurance costs by 3%. Many insurance companies group PPC 1-4 in the same rate table for homeowners insurance and the break comes in a change from 4 to 5. This clearly is a benefit the citizens of Norwich.

Conclusion: For all of the affore-mentioned reasons, it will serve the town well to keep and maintain the Norwich Fire Department's Ladder 1 as part of its fleet.

Herb Durfee

From: Neil Fulton <neil@nafulton.net>
Sent: Thursday, November 05, 2020 9:32 AM
To: Herb Durfee
Subject: New FD Engine

Herb,

The following is the schedule I put together for Alex and Matt. Normal build time is 12 to 18 months, depending on the supplier, so the new engine, if ordered in March 2021, would not be delivered until calendar 2022.

Possible New Engine 1 Bid Schedule

Public Notice and Distribution of RFB	Friday, November 13, 2020
Pre-Bid Conference	Friday, November 27, 2020
Bids Due	Wednesday, January 6, 2021
NFD Recommendation to TM	Wednesday, January 13, 2021
Normal SB Meeting	Wednesday, January 13, 2021
Normal SB Meeting	Wednesday, January 27, 2021
Last Day for SB to Provide Notice of TM	Sunday, January 31, 2021
Town Meeting	Tuesday, March 2, 2021

Neil

Norwich Fire Department

BID PACKAGE AND SPECIFICATIONS FOR:

One 1,500 gpm Rescue/Pumper

Mandatory Pre-Bid Conference:
_____ at 1000 Hours

Bids are due on:
_____ at1000 Hours

Date of Specifications:
_____

Table of Contents

1. Introduction 1
2. Form of Proposal 3
3. Form of Contract 6
4. General Requirements 9
5. Chassis 10
6. Cab 11
7. Pump and Pump Panel 12
8. Foam System 14
9. Water Tank 14
10. Hose Crosslays 14
11. Rear Hose Bed 15
12. Pumper/Rescue Body 15
13. Right Side of Body 16
14. Rear of Body 16
15. Left Side of Body 17
16. Lighting and Warning Devices 17
17. Electrical 18
18. Paint 19

1. Introduction

1.1 The Town of Norwich (hereinafter referred to as the Owner) is accepting sealed bids for the furnishing of a fire rescue/pumper as described in these specifications. Bids are to be received at the Town Managers Office, 300 Main Street, P.O. Box 376, Norwich, VT 05055-0376 on or before _____, 2020 at 1000 Hours. Bids will be opened immediately after the closing time for receiving bids in the Town Manager's Conference Room. Bids shall be marked "Fire Department Pumper Bid" on the outside of a sealed envelope. Late bids, email bids, telephone bids, or faxed bids will not be accepted.

1.2 A mandatory pre-bid conference will be held on _____ at 1000 hours at the Norwich Fire Station, Training Room located at 11 Fire House Lane in Norwich, Vermont. The conference is intended to clarify the bid requirements, review the layout and equipment storage on the current Engine 1 and provide an opportunity for questions and answers. If necessary an addendum to these specifications will be issued following the pre-bid conference. All questions related to this specification and any addenda shall be in writing and addressed to the Town Manager.

1.2.1 Attendance and sign-in at the pre-bid conference by an authorized representative of the bidding firm is required in order to be deemed responsive to this request for bids and bids from those not attending will deemed non-responsive

1.3 Bids are to be submitted in triplicate and on the Form of Proposal, with supplemental material, contained in Section 2. The Contractor shall submit a detailed description of the apparatus proposed to be furnished, including the manufacturer and model of all components not built by the Contractor, arranged in the same order as the specifications and drawings of the proposed apparatus from the front, left side, rear and right side as well as the layout of the hose bed with the bid. The detailed description of the chassis shall include a list of all standard and optional components proposed.

1.4 It is the intent of the specifications to establish the functional requirements of a fire department rescue/pumper with a 1,500 gallon per minute (gpm) pump and a 1,000 gallon water tank.

1.5 All equipment furnished shall be manufacturer's latest model. Appurtenances and/or accessories not mentioned herein, but necessary to furnish a complete unit ready for use upon delivery, shall be included and shall conform to the best practice known to the fire apparatus trade in design, quality of workmanship and material.

1.6 These specifications shall be construed as minimum. Should the manufacturer's current published data or specifications exceed these, they shall be considered minimum and be furnished.

1.7 Full compliance is required with NFPA 1901 *Standard for Automotive Fire Apparatus* (2016 Edition) as if the Standard was fully incorporated herein, except where specifically waived by this specification. The fact that an item is not listed in these specifications does not relieve the Contractor from compliance with any requirement of the Standard. An exception is made for Minor Equipment as specified in NFPA 1901 Sections 5.9.3 and 5.9.4 which shall be provided as detailed elsewhere in these specifications. If a specific item of equipment is mentioned, for example ladders, pike poles, extinguishers, suction hose, etc. and if not specified as provided by Owner it shall be provided by the Contractor.

1.8 Full compliance is required with all applicable current Federal and State laws, rules and regulations.

1.9 "Owner" refers to the Town of Norwich. "Contractor" refers to the company making the proposal and building the fire apparatus.

1.10 The Contractor shall have insurance coverage to cover all liability and physical damage for the apparatus and equipment, as well as product liability insurance in the amount of $3,000,000, and shall be the primary insurer of same, regardless of other insurance available, until delivery of the apparatus and equipment to Owner and written acceptance by the Owner. The Contractor shall provide to the Owner, prior to execution of any contract, a "Certificate of Insurance" for the liability and physical damage insurance and the product liability insurance in a form acceptable to the Owner.

1.11 The Owner plans to make progress payments on the apparatus as defined in the Form of Contract. The Owner desires that its progress payments be protected against failure of the Contractor to perform for any reason including bankruptcy. The Contractor shall include in its bid package a proposal for guaranteeing the security of Owner's progress payments with a performance bond, irrevocable letter of credit or some other instrument that will protect the Owner against any loss because of non-performance of the Contractor for any reason. The Contractor may propose an alternative to the progress payments as defined in the Form of Contract if it meets the criteria in this paragraph for protection of the Owner for any payments made before the Owner gives written notice of acceptance of the apparatus.

1.12 The Town of Norwich shall be the sole interpreter of these specifications and sole judge as to whether any proposal complies with these specifications. The Town reserves the right to cancel the invitation for bids, reject any or all bids in whole or in part, and to waive any informality in any or all bids.

2. Form of Proposal

Date: _____

Norwich Fire Department
Town of Norwich
300 Main Street
P.O. Box 376
Norwich, VT 05055-0376

We propose and agree to furnish, conditioned upon your acceptance of our proposal and the execution and approval of a contract, one current-technology pumper/tanker fully complying with your specifications entitled "Bid Package and Specifications for One 1,500 gpm Rescue/Pumper " dated _____. Any modifications in layout and "as equal" substitutions are fully listed and detailed in the attached sheets entitled Modifications and Substitutions to Specifications.

The following describes the apparatus we propose to furnish:

Height	
Width	
Length	
Angle of approach	
Angle of departure	
Cramp Angle	
Total volume of compartments in cu. ft. The Contractor shall detail the location, size and volume of each compartment in their proposal	
Weight front axle (fully loaded)	
GAWR front axle	
Weight rear axle (fully loaded)	
GAWR rear axle	
GVW	
GVWR	
Calendar days from execution of contract to delivery of apparatus FOB Norwich	
Total price of apparatus FOB Norwich	

The following are itemized reductions in the total price of the apparatus if the following items are changed a described.

Paragraph No.	Description	Cost Reduction
7.2	Replace factory discharge manifold with supplier built discharge manifold	
5.3	Change Cummins L9 450 hp, 1250 lb ft to Cummins L9 380 hp, 1150 lb ft	

The following are itemized increases in the total price of the apparatus if the if the following items are changed as described.

Quantity	Description	Total Cost
1	Complete Smart Power Systems, Model HR-8 8 KW hydraulic hot shift PTO driven generator with command and control center and with breaker/switch panel, electric rewind Hannay 200' live reel with yellow 10/3 cable and Circle D 4 outlet Powerbox Yellow Junction Box with light (NS) with GFP and 2 – 110 volt covered outlets on each pump panel. Powerbox to be connected to reel cable with pigtail with strain relief. Hydraulic generator to provide full output at all engine speeds from 700 rpm to governed engine speed. All outlets and cable connections to be 15 amp twist lock. Contractor to supply cable and junction box. Junction box to be mounted in bracket on right pump panel. Control switches to be provided for cable reel, left pump panel outlets and right pump panel outlets.	
1	Cabin high-efficiency particulate air (HEPA) filter to remove toxic particles and contaminants that are airborne in the cab.	
2	FRC LED Tank Display, MAXVISION, Large Remote on left and right side of cab between front and rear windows	

This proposal shall remain in full force and effect for 90 calendar days from the date of the bid opening.

Attached to this proposal is a detailed description of the apparatus proposed to be furnished arranged in the same order as the specifications and drawings of the proposed apparatus from the top, front, left side, rear and right side and of the hose bed and the cab.

Submitted by: _____
Signature

Name	Title
Street Address	City, State Zip
Telephone Number	Email

Modifications and Substitutions to Specifications

Paragraph No.	Modifications or Substitutions

Use additional pages, if necessary.

3. Form of Contract

CONTRACT

CONTRACT made this _____ day of _____, 2021 by and between the TOWN OF NORWICH (hereinafter called "Owner") and _____ whose mailing address is _____ _____ (hereinafter called "Contractor").

The Owner and Contractor, in consideration of the mutual undertakings hereinafter set forth, agree as follows:

1. The Apparatus and Equipment:

The Contractor shall furnish to the Owner apparatus and equipment according to the Specifications required by Owner and Contractor's Proposal accepted by the Owner.

2. Contract Documents:

This Contract shall consist of the following contract documents:

A. This executed Contract;
B. Exhibit A, The Town's Bid package and Specifications for One 1,500 gpm Rescue/Pumper dated _____ ;
C. Exhibit B, the Contractor's Proposal in response to the Town's Invitation to Bid;
D. Exhibit C, Addendum; and
E. Exhibit D, Certificate of Insurance.

3. Delivery:

Delivery of the apparatus and equipment set forth in this Contract to Owner shall be FOB Norwich on or before _____. Delays occasioned by war, strike, explosion, or acts of God or an order of a court of competent jurisdiction are excepted.

4. Payment:

The Owner agrees to purchase and pay for the subject apparatus and equipment for the total sum of $_____ in the following manner:

The, Owner shall make monthly progress payments to Contractor towards the total balance due on the Contract less 10% retainage as follows: This balance due of the Contract price shall be payable on a monthly basis based on the material and labor supplied by the Contractor less ten percent (10%) of the material and labor amount which shall be withheld by Owner. The remaining 10 percent (10%) of the total Contract amount will be paid by Owner to the Contractor within thirty (30) days following the satisfactory completion of all terms of the Contract.

Satisfactory completion of all terms of the Contract shall include delivery of the apparatus and equipment to the Owner, testing of the apparatus and equipment by the Owner, written acceptance of the apparatus and equipment by the Owner to Contractor, which shall not be unreasonably withheld, and one eight-hour training course given by Contractor of the apparatus and equipment for Owner's fire department.

The Owner shall not owe interest to the Contractor on any retained amounts of money due to the Contractor under this Contract.

5. Security of Progress Payments:

To be added based on Contractor's proposal.

6. Warranty:

The Contractor shall warranty all material and workmanship for the following minimum periods of time, beginning on the date of satisfactory completion of all terms of the Contract and written acceptance by the Owner. The warranty shall include parts and labor with no deductibles.

- All material and workmanship not otherwise specified – 5 years
- Cab and Body structural cracks and corrosion – 10 years
- Paint – 15 years, 10 years non-prorated
- Frame rails and cross members – 25 years
- Water tank and foam tank – lifetime non-prorated

Further, Contractor guarantees that all materials and workmanship shall be of the best grade and quality and Contractor, at its own expense, shall replace such materials or parts that may fail or be defective if such failure is attributable to defective material or inferior workmanship within the terms of the warranty period.

If failures or defects should occur before written acceptance of the apparatus and equipment by Owner, Owner agrees to give Contractor a reasonable period of time, but no longer than 30 days, to correct same. The Owner shall give to the Contractor a notice in writing with specific detail as to any defective materials or workmanship.

7. Insurance:

The Contractor shall have insurance coverage to cover all liability and physical damage for the apparatus and equipment and shall be the primary insurer of same, regardless of other insurance available, until delivery of the apparatus and equipment to Owner in Norwich and written acceptance by the Owner. The Contractor shall have, and maintain during the period of the contract, product liability and physical damage insurance in the minimum amount of $3,000,000.

8. Assignment and Default

This Contract is not assignable. Bankruptcy or insolvency of the Contractor shall be considered a breach of the Contract and the Owner may declare the Contractor in default of the contract. Any other condition that a reasonable person would determine would prevent the Contractor from satisfactorily performing under the terms and conditions of this contract shall be considered a breach of the Contract and the Owner may declare the Contractor in default of the contract.

9. Dispute Resolution:

Any controversy arising out of or relating to the application or interpretation of this agreement may be settled by the assistance of a neutral party through mediation and/or arbitration. If the parties choose arbitration, the parties shall set forth in writing a submission agreement that sets forth the issues and agrees on the scope of the issue(s) for the arbitrator to decide and select an arbitrator. In the event the parties are unable to agree on the issue and scope of dispute prior to submission to arbitration, the dispute will be resolved in court. The arbitrator shall adopt appropriate arbitration rules similar to the American Arbitration Association or any other arbitration procedure. The place of arbitration shall be at a location chosen by the Owner in Windsor County, Vermont. The arbitration hearing shall be held within thirty (30) days after the notice of arbitration is delivered by one party to

the other party, unless otherwise agreed. In the event the parties are unable to agree on the arbitrator, then application may be made to the Windsor County Superior Court under the Vermont Arbitration rules for the appointment of an arbitrator or the dispute will be resolved in court.

The arbitrator shall have the power solely to construe or apply the terms of this agreement or to issue an order to cure a violation in order for the parties to implement its terms. Vermont law shall not be abridged or limited by the agreement and in the event of any inconsistency, Vermont law shall prevail. Moreover, the arbitrator shall have no power to change, amend, add to, subtract from, modify or amend any of the terms or provisions of this agreement and any errors of law in any award of an arbitrator shall be reviewable in an appeal to the appropriate court in addition to those issues that are reviewable under Vermont law.

10. Amendment of the Contract:

This contract shall only be amended by a document, in writing, signed by both parties.

11. Applicable Law:

This Contract is made and executed in the State of Vermont and shall be construed and interpreted in accordance with the laws of Vermont.

OWNER	CONTRACTOR
Town of Norwich	_____
P.O. Box 376	_____
Norwich, VT 05055-0376	_____
By:_____	By:_____
	Printed Name:_____
	Duly Authorized
Duly Authorized	
	[corporate seal]

4. General Requirements

4.1 One current-technology 1,500 gpm rescue/pumper with a short wheelbase and overall length and with a body top as low as possible with the maximum functional compartment space possible.

4.2 The maximum overall length of the pumper from the maximum front projection to the maximum rear projection shall not exceed 30'.

4.3 The maximum height of the pumper measured from the floor to the highest projection with the cab in normal position shall not be higher than the cab top or 10' whichever is higher and the maximum height with the hose cover doors open of not more than 13.5'.

4.4 The minimum angle of approach shall be 10° and the minimum angle of departure shall be 10°.

4.5 Wherever dissimilar metals are in contact they shall be separated by a corrosion and electrolysis inhibitor.

4.6 All lights are to be LEDs

4.7 Where a particular brand and model is specified, the specification should be read to include "or equal." unless otherwise specified by the abbreviation NS indicating "No Substitution". If an "or equal" product is proposed, Contractor shall detail same in their bid and provide specifications of the product. The Owner reserves the right to accept or reject any "or equal" product if the Owner determines that the product is not equivalent.

4.8 The pumper configuration, including hose bed layout and compartment size and location, described in these specifications is to demonstrate one layout that would be acceptable to the Owner. The Contractor may propose functionally equivalent layouts.

4.9 The Contractor shall provide a minimum of one pre-construction conference to go over the details of construction prior to starting construction of the apparatus. The pre-construction conference may be at the Owners location in Norwich or at the Contractor's factory. If the pre-construction conference is at the Contractor's factory the Contractor shall provide for attendance of two representatives of the Owner at the Contractor's cost.

4.10 The Contractor shall provide two inspection trips to the factory for two individuals at the Contractor's cost. The trip shall provide time for a complete inspection of the apparatus and a check against each item in these Specifications and NFPA 1901.

4.11 The Pump Certification Tests are to be certified by Underwriters Laboratories. Two copies of this certification and all other tests required by NFPA 1901 shall be provided by the Contractor to the Owner at the time of delivery of the apparatus.

4.12 The Contractor shall mount all equipment provided as part of this proposal and all other minor equipment specified in NFPA 1901 and provided by the Owner.

4.13 The apparatus shall be delivered by the Contractor to the Norwich Fire Department FOB Norwich.

4.14 The Contractor shall specify warranty on all components of the apparatus including those supplied by the chassis and pump manufacturer and service location(s). The minimum warranty shall be as specified in Section 6 of the Form of Contract.

4.15 The Contractor shall provide a minimum eight hours of training by a factory-authorized technician at a time and location to be determined by the Owner.

5. Chassis

5.1 Current-production-year four door custom cab over fire truck chassis with minimum of 10" crew area raised roof including all standard and optional equipment necessary to meet this specification. The cab and chassis may be made by the same builder as the body or may be made by Spartan, HME (Including SFO-MFD) or similar supplier as long as it meets all the requirements of this specification.
5.2 The chassis frame rails and cross members shall be galvanized or treated with another product that provides equivalent protection from corrosion and rust with a warranty as specified herein.
5.3 Cummins L9 450 HP turbocharged diesel with 1,250 lb-ft torque with Cummins E Brake.
5.4 The exhaust brake shall not be operative when the transmission is in pump mode.
5.5 The alternator shall be sized to handle the full electrical load required during the pump test without a load manager.
5.6 Allison 3000 EVS Series 5 speed automatic transmission with push-button controls. The transmission shall be equipped with a lock-up control circuit that will automatically shift the transmission into the appropriate lock-up gear when the pump is shifted into gear and shall be wired to prevent the transmission from shifting through the gears while the pump is engaged.
5.7 A 110 VAC air compressor shall be supplied of adequate size to maintain air system pressure from shore power. This does not change the NFPA 1901 requirement for a quick buildup air brake system.
5.8 The parking brake shall be controlled by a push-pull valve in the cab that engages the rear brakes using mechanical spring force.
5.9 Upon application of the parking brake the transmission shall shift into neutral.
5.10 A driver controlled differential lock shall be installed on the rear axle. This feature shall allow the main differential to be locked and unlocked when encountering poor road or highway conditions, where maximum traction is needed, for use at speeds no greater than 25 MPH. The differential lock shall be controlled by a lighted locking rocker switch accessible to the driver.
5.11 An Anti-Skid Braking System (ABS) shall be provided to improve braking control and reduce stopping distance in slippery conditions. This braking system shall be fitted to all of the axles.
5.12 An automatic traction control (ATC) system shall be provided. The ATC system shall apply the ABS when the drive wheels loose traction. There shall be a lighted switch accessible to the driver to disable the ATC system.
5.13 The front and rear steel wheels shall be painted the cab color with stainless lug nuts and hub covers.
5.14 The minimum fuel tank capacity shall be 50 gallons.
5.15 A fuel/water separator shall be provided.
5.16 The front tires shall be Michelin XZY-2 (NS).
5.17 The rear tires shall be Michelin XDN2 (NS).
5.18 The inner rear tires shall have a valve extender to allow easy access for checking and maintaining air pressure.
5.19 On-Spot chains for rear tires shall be provided with the control in cab. (NS)
5.20 The minimum turning cramp angle shall be 45°.
5.21 The front pumper shall be a minimum of 10" stainless steel painted with red/yellow chevrons.

5.22 Dual heated flat mirror heads shall be supplied with a convex mirror below the primary mirrors.
5.23 The horizontal exhaust shall discharge in front of right rear tires and be designed to connect to the Nederman Norwich Fire Station exhaust system.
5.24 Provide 2 - wheel chocks with horizontal mounting, in front of left rear wheels.
5.25 Provide 1 – automatic disconnect when the master switch is turned on male grounded shoreline receptacle with cover for 110 VAC power mounted near driver's door.
5.26 Provide 1 - green warning light adjacent to shoreline receptacle to indicate when master switch is on.

6. Cab

6.1 The ignition switch shall be keyless.

6.2 The cab shall have 5 seats as follows.

6.2.1 1 – Driver Bostrom Sierra high back ABTS with air suspension and upholstered with heavy duty low seam Durawear Plus material.

6.2.2 1 - Officer SCBA seat with Bostrom SecureALL SCBA bracket with storage compartment in pedestal and upholstered with heavy duty low seam Durawear Plus material. (Owner to provide SCBA.)

6.2.3 3 - SCBA rear seats with Bostrom SecureALL SCBA bracket with storage compartment in pedestal and upholstered with heavy duty low seam Durawear Plus material. (Owner to provide SCBA.)

6.3 Space provided for mounting 2 two-piece mobile radios (control head and transmitter/receiver) and one local repeater. For more information see the Electrical section.

6.4 The maximum first step for entering cab shall be 14" without reducing the required Angle of Approach. The first step may be a drop down, folding or similar configuration.

6.5 Provide a High-resolution color reverse (backup) CCD camera with minimum 5" TFT-LCD color display easily visible to the driver.

6.6 The heating and air conditioning shall be capable of cooling the interior of the cab from 120° F ambient to 80° in 30 minutes or less and heating the interior of the cab from 0° F to 80° F in 30 minutes or less. The heater shall be capable of defrosting the windshield and maintain a clear condition to 0° F. The heater shall have a defog mode that clears the windshield and the front side glass of any flash fogging in 30 seconds or less.

6.7 Provide 2 – Whelen 60CREGCS white/red dome light mounted in cab front right and left with separate switch for the red. The white lights shall operate when cab door is open.

6.8 Provide 2 - Whelen 60CREGCS white/red dome lights mounted in cab rear right and left with separate switches for the red. The white lights shall operate when cab door is open.

6.9 2 – Whelen Pioneer Plus Single Panel Combination Flood/Spot 10,000 lumen scene lights, one mounted on left side of cab and one on right side of cab.

6.10 Smooth bright finish aluminum map and book box mounted on engine cover with continuous-hinged lid, lift handle and hold open device. (Owner to approve location and design.)

6.11 Smooth bright finish aluminum EMS box with roll-up door with two adjustable shelves for carrying medical supplies, including EMS bag, ZOLL AED, backboard head blocks and straps and two E size oxygen tanks. (Owner to approve location and design.)

6.12 Mounting for one backboard. (Owner to provide back board and approve location and design.).

6.13 1 - gooseneck reading light to the left of officers seat. (Owner to approve location and design.)

6.14 Provide two powered USB ports and one 12 VDC port at locations approved by the Owner.

6.15 Outlets and wiring and mounting of five Streamlight Survivor chargers, five portable radio chargers, one MSA TIC charger, one MSA multi-gas meter charger with power supplied from the shoreline connection. (Owner to provide equipment and approve the locations.)

6.16 1 - 2½ gallon air pressurized water fire extinguisher with mounting bracket to be installed at a location to be approved by the Owner.

6.17 1 – 30# Ansul Redline Dry Chemical (FORAY) A/B/C Extinguisher. with mounting bracket to be installed at a location to be determined by Owner. (NS)

6.18 1 – set of Irons, Halligan and 6 lb. flat head axe, strap with mounting bracket to be installed at a location to be determined by Owner. (Owner to provide Irons)

7. Pump and Pump Panel

7.1 Maximum width of the pump panel shall be 44".

7.2 Midship-mounted-side-panel-operated Waterous Model CSU 1,500 gpm single-stage double suction centrifugal pump with pump manufacturer's manifolds and mechanical seals.

7.3 FRC INControl 400 pressure governor and instrument panel (TGA401-D00) with high idle control with transmission in neutral and the parking brake on (NS) The high idle control shall be pre-set to operate at 1400 rpm and automatically disconnect when the pump is engaged.

7.4 Waterous Overheat Protection Manager with control panel, light and audible alarm that discharges to water tank.

7.5 The pump suction side adjustable pressure relief valve shall be preset to 160 psi and adjustable without removing any panels.

7.6 Air-operated pump shift control with green "Okay to Pump" lights with one light in cab on control console next to pump shift control and one light on pump panel. Pump shift interlock so that pump cannot be shifted from road to pump or pump to road if transmission is not in neutral.

7.7 A Trident automatic 2 location with gauge air operated priming system shall be installed for priming the fire pump and for priming the front suction while pumping from the tank.

7.8 2 - 6" side suctions with long-handle chrome cap on the right side. Left side suction to have a behind-the-panel hand-wheel-operated butterfly valve with position indicator and externally adjustable intake side relief valve (Monarch Intake Valve) set at 160 psi and have a 6" x 4" Storz 30° elbow adapter with blind Storz cap.

7.9 1 - 5" stainless steel full flow front suction with electric slow open and close butterfly valve with position indicator and 6" male fitting with long handle chrome cap at right side of front bumper.

7.10 All discharges shall be individually-gated with controls on the pump panel.

7.11 All ball valves shall be full diameter, full flow, serviceable without removing the pipe fittings, with a brass body, stainless steel ball and dual self-adjusting seats.

7.12 All 2½" and 1½" valves are to be full flow Push–Pull, self-locking with bushing where the rod passes through the pump panel except for the valves for the 2½" pony suction and the two 2½" discharges on the driver side pump panel which shall have a handle that projects through the pump panel and moves vertically with open up and closed down.

7.13 1All discharges, including pre-connects, shall have a drain with valve on discharge side of the valve.

7.14 All intakes shall have a drain with valve on intake side of the valve.

7.15 Master drain valve for all drains except for the hose line side of discharge and intake valves.

7.16 All suction and discharge connections for hose shall be National Hose Thread (NHT) except 1½" threads which shall be National Pipe Straight Hose Thread (NPSH). The NPSH 1½" thread is an exception to NFPA 1901.

7.17 1 – full flow 2½" gated side (pony) suction on pump panel with chrome plug.

7.18 2 - 2½" discharges on left side pump panel directly connected to pump discharge manifold with 30° chrome discharge adapter with integral drain and a 2½" x 1½" reducer and 1½" chrome caps.

7.19 1 - 2½" discharge on right side directly connected to pump discharge manifold with 30° chrome discharge adapter with integral drain and a 2½" x 1½" reducer and 1½" chrome cap.

7.20 1 – 3½" discharge on right side with manual rotary control and valve position indicator directly connected to pump discharge manifold with integral drain and 3½" x 4" 30° chrome or polished aluminum alloy elbow with 4" Storz fitting with blind Storz cap.

7.21 2 - 1½" discharges with swivels for 1¾" crosslays.

7.22 1 - 1½" rear discharge at front of rear hose bed for 2" rear pre-connect.

7.23 1 - 2½" rear discharge at front of rear hose bed for 2½" rear pre-connect.

7.24 The minimum pipe size for the 1½" discharges is 2" and the 2" and 2½" discharges is 2½". The rated flow capacity of all 1¾" pre-connect discharges shall be 200 gpm, 2" pre-connect discharge shall be 250 gpm, 2½" discharges shall be 350 gpm, 4" discharge shall be 750 gpm and the Elkhart monitor shall be 1,000 gpm. The friction loss between the pump discharge manifold and discharge hose fitting shall not exceed 10 psi at the rated flow.

7.25 1 - 3" discharge with hand-wheel-operated valve and valve position indicator located on pump panel for an Elkhart Stinger 2.0 monitor to be mounted midship in front of hose bed with 18" TFT "Extend-a-gun" riser with top mount fixture (Elkhart 8298). Height to be adequate to allow operation over a 360° radius. The length of pipe and elbows or other fittings shall be kept to a minimum to reduce friction loss at high flows. (Owner to supply portable monitor but not top mount fixture.)

7.26 Minimum of 3½" full flow tank to pump suction line with check valve to allow a minimum flow of 500 gpm.

7.27 1½" gated tank fill line.

7.28 Brushed stainless steel non-glare finish side-mount pump panel located at front of body on left side with logically arranged controls and gauges to make identification of function easy. All push-pull control rods for valves shall have a remote control guide with nylon sleeve. (Owner to approve pump panel layout.)

7.29 Brushed stainless steel panel on right side to match pump panel.

7.30 1 FRC TankVision Pro Level gauge for water tank.

7.31 1 FRC TankVision Pro Level gauge for foam tank

7.32 Switches for ground lights, left scene lights, rear scene lights, right scene lights, left telescoping mast light, right telescoping mast light, pump panel lights, hose bed lights, pump house heater and 2 spares.

7.33 Air horn push button on pump panel with light switches.

7.34 2½" gauges for all discharges. The pressure tap for these gauges shall be as close to the discharge point or top mounted monitor as reasonably possible.

7.35 All gauges to be silicon filled and non-freezing.

7.36 Color code labels and controls for pre-connects and discharge ports. (Owner to approve color coding scheme.)

7.37 All piping shall be non-corrosive stainless steel, except for piping and fittings that are continuously wetted with foam concentrate or foam concentrate/water solution, with full flow flexible sections as needed. All piping that is continuously wetted with foam concentrate or foam concentrate/water solution shall be constructed of materials that will not be damaged or corroded by continuous exposure to the foam solution or foam concentrate.

7.38 Suction and discharge pressure test connections for pump service testing on pump panel.

7.39 Totally enclosed pump house with aluminum under-the-pump heat retention pan with easily removable sections and heat provided by a heater with fan able to maintain the pump house above freezing when the outside temperature is -10° F, with control switch on pump panel with on indicator light with other switches.

7.40 Mounting for 1 – Light Attack Vindicator Nozzles and 1 - New York Style 15/16" solid stream nozzle on right pump panel. (Owner to supply nozzles.)

7.41 Mounting for 1 – Light Attack Vindicator nozzle on left pump panel. (Owner to supply nozzle.)

7.42 1 – 6' Fire Hooks Unlimited New York Roof Hook mounted on left side pump panel.

8. Foam System

8.1 1 - FRC Model 2002, 5 gpm discharge side direct injection foam proportioning system with controls mounted on pump panel for two pre-connect 1¾" crosslays and rear 2" and 2½" pre-connects for foam. Adjustable in 0.1% increments from 0.1% to 10.0%. (NS)

9. Water Tank

9.1 Polypropylene tank with lifetime non-prorated warranty with capacity of 1,000 gallons of water and 50 gallons of foam. The foam tank fill tower shall incorporate a removable screen and arranged so that foam concentrate from a 5 gallon container can be dumped directly to the bottom of the tank to minimize aeration without the use of funnels or other special devices

10. Hose Crosslays

10.1 Three transverse hose beds at front of body as low as possible. Two for 200' of double jacket 1¾" hose one for 400' of 1¾" hose. The front two beds are for pre-connects and the third for a dead load. (Owner to provide hose.)

10.2 Owner to approve method to prevent unintentional deployment of hose which shall be designed to allow easy deployment of hose by firefighters.

10.3 Aluminum bright diamond plate hinged cover for easy loading.

11. Rear Hose Bed

11.1 The hose bed shall be of sufficient size to accommodate the following hose loads from left to right:

11.2 200' of 2½" double jacket hose pre-connect. (Owner to provide hose.)

11.3 200' of 2" double jacket hose pre-connect. (Owner to provide hose.)

11.4 2,000' of 4" synthetic Large Diameter Hose with Storz couplings split into two compartments of approximately the same size. (Owner to provide hose.)

11.5 800' of 2½" double jacket hose. (Owner to provide hose.)

11.6 Hosebed dividers shall be adjustable, removable smooth aluminum plate with extruded aluminum base welded to the bottom, sanded and deburred rounded edge at the back end of each divider with radius corner

11.7 Aluminum diamond plate hose bed cover strong enough to support three firefighters on top of cover with weighted red Hypalon rear flap that extends to bottom of hose bed at rear.

11.8 Owner to approve method to prevent unintentional deployment of hose which shall be designed to allow easy deployment of hose by firefighters.

12. Pumper/Rescue Body

12.1 All aluminum alloy construction. Body corners to be large diameter radius. Minimum thickness of aluminum plate is 3/16". All corners and joints to be smooth uniform radiuses, tight fitting and without pits or jagged edges. Equivalent stainless steel is an acceptable alternative.

12.2 The body shall be long enough to accommodate the specified extension and roof ladders and suction hose fully enclosed and not less than 15'.

12.3 Body and compartments of sufficient size to accommodate all NFPA required and recommended equipment and hose and equipment specified herein.

12.4 All compartments shall the maximum size available at location specified.

12.5 Rescue/Pumper style body with Buffalo butt style with compartments extending to rear of body, including back step, with square back and rounded corners.

12.6 All compartment doors shall be AMDOR roll-up shutter doors.

12.7 All compartments shall have interior lights actuated by opening of door with light in cab that notifies if a door is open.

12.8 All wearing and walking surfaces, including the area between the Buffalo butts, shall be constructed of bright finish diamond treadplate material with non-slip material as required by NFPA 1901.

12.9 All horizontal surfaces, vertical surfaces to right and left of pump panels, vertical surfaces on inside of and between the buffalo butts and compartment tops to be bright finish aluminum treadplate material.

12.10 All hose beds shall be vented, drained and constructed of extruded aluminum. The rear hose bed floor shall be easily removable for access to water tank. A removable panel shall be provided for access to water-level and foam gauge sending units without removing the entire hose bed floor.

12.11 All compartments, shelves and roll out trays shall have red removable modular Dri-Dek floor neatly fitted and finished. Compartment floors below adjustable roll-out shelves shall be fitted with Dry-Dek floor.

12.12 All compartments shall have sweep out floor and have vent and drain.

12.13 All compartments shall be fully gasketed and provided with drip rails.

12.14 Access shall be provided to telescoping lights, hose bed, monitor and other functional areas using permanent or folding steps constructed of aluminum or stainless steel with grab or hand rails.

12.15 All steps and running boards shall be well lit.

13. Right Side of Body

13.1 1 – compartment a minimum of 26" deep at bottom and 13" deep at top ahead of rear wheel with two adjustable roll-out shelves at bottom and one fixed and two adjustable shelves at top.

13.1.1 1 - 20# CO2 fire extinguisher.

13.2 1 – compartment a minimum of 13" deep with two adjustable shelves over wheel well.

13.3 1 – compartment a minimum of 26" deep at bottom and 13" deep at top compartment behind rear wheel with one roll-out shelf at bottom and one fixed and two adjustable shelves at top. Provide 110 VAC outlet at top for battery chargers. The roll-out shelf at bottom is for one battery powered PPV fan (22.88"W x 26"H x 11"D), one electric powered NPV smoke ejector (Supervac HF164 with Tilt Frame). (Both Owner provided.).

13.4 2 - SCBA bottle holders, each to hold two Scott 4,500 psi 30 minute bottles or Scott 5,500 psi 45 minute bottles, one ahead of and one behind rear wheel located so as to minimize reduction in adjacent compartment sizes. (Owner to provide bottles.)

13.5 2 - Whelen Pioneer Plus Single Panel Combination Flood/Spot 10,000 lumen scene light.

13.6 1 – Whelen Pioneer Plus Dual panel combination flood/spot 20,000 lumens 12-volt DC telescoping mast light with pole mount adapter on back of cab with switch on pump panel.

14. Rear of Body

14.1 Minimum of 26" deep compartment with a roll-out shelf at bottom and two adjustable shelves at top behind the water tank. This bottom of this compartment is to open into the right and left side compartments at the bottom behind the rear wheel. This roll-up door and adjacent rear body is to be painted with red/yellow chevrons and E1 on the roll-up door.

14.2 1- compartment with hinged door at upper right of body beside hose bed and above roll-up side doors for 1 – 15' length of 6" lightweight hard suction

14.3 1- compartment with hinged door at upper left of body beside hose bed and above roll-up side doors for 1 – 15' length of 6" lightweight hard suction.

14.4 1- compartment with hinged door at right side of body next to water tank for 1-2-section 28' extension (Duo-Safety 1200-A NS), 1-16' roof (Duo-Safety 875-A NS) and 1-10' folding (Duo-Safety 585-A NS) ladders and 1-6', 1-8', 1-10' and 1-12' fiberglass I-Beam pike poles.

14.5 2 - Whelen Pioneer Plus Single Panel Combination Flood/Spot 10,000 lumen scene lights.

14.6 2 - handrails, one on each side of buffalo butt.

14.7 Corner or folding steps at intersection of rear compartment and buffalo butts for access to hose bed and upper left and right compartments.

14.8 10" rear step between buffalo butts.

14.9 1 - rubber covered handrail between buffalo butts below hose bed.

14.10 Mounting for 1 – Heavy Attack Vindicator nozzles and 1 – Blitz Attack Vindicator nozzle on left side rear of buffalo butt. (Owner to supply nozzles.)

15. Left Side of Body

15.1 1 – minimum of 26" deep compartment with vertical reinforced divider ahead of rear wheel with two adjustable roll-out shelves at bottom and three adjustable shelves at top of left section. Right section to have mounting for 1- Ferno Model 71-S Two-Piece Basket Stretcher and two tubes for storage of Scott 4,500 psi 30 minute bottles or Scott 5,500 psi 45 minute bottles (Owner to provide SCBA bottles).

15.2 1 – minimum of 26" deep compartment with two adjustable shelves over wheel well plus one shelf without a lip attached to the lower adjustable shelf for an accountability board.

15.3 1 – minimum of 26" deep compartment behind rear wheel with one adjustable roll-out shelve at bottom and adjustable shelves and tubes and mounting for Paratech 7 bag 92 ton air bag set with plywood spacers with Master Control Package including case, one set of Paratech RescueStruts Vehicle Stabilization Kit, one Power Hawk Model P-16 IN-1 Rescue System including Power Pusher Rams, Extensions and Couplers. Provide 110 VAC outlet and mount Power Hawk 110 VAC charger. (All Owner provided.)

15.4 1 - SCBA bottle holder to hold 2 Scott 4,500 psi 30 minute bottles or Scott 5,500 psi 45 minute bottles ahead of rear wheel located so as to minimize reduction in adjacent compartment sizes. (Owner to provide bottles.)

15.5 2 - Whelen Pioneer Plus Single Panel Combination Flood/Spot 10,000 lumen scene light.

15.6 1 – Whelen Pioneer Plus Dual panel combination flood/spot 20,000 lumens 12-volt DC telescoping mast light with pole mount adapter on back of cab.

16. Lighting and Warning Devices

16.1 All warning, clearance, scene and ground lights shall be Whelen lights unless otherwise specified.

16.2 2 -Federal Signal Split-Vision 3 Pod SLR with Spectra Lux multicolor LED technology for center light with red end lights and center light programmed to be white when calling for ROW and red when blocking ROW to be mounted on left and right side of front cab top.

16.3 2 - Federal Signal Red SLR LED rotating beacon located at rear visible to the side and rear.

16.4 2 - Whelen SurfaceMax Series red wig-wag LEDs mounted on front of cab as far to the left and right as possible.

16.5 6 - Whelen red LEDs located on left and right side at front of front fender, over rear wheel well and at rear.

16.6 2 - Whelen SurfaceMax Series wig-wag amber LEDs mounted at rear on Buffalo butt as high as possible.

16.7 2 - Whelen SurfaceMax Series wig-wag red LEDs mounted at rear on Buffalo butt below amber lights.

16.8 2 - Whelen SurfaceMax Series mounted as a unit on the left and right side of the Buffalo butt with top light red brake lights, middle light amber arrow directional lights and the bottom light white backup lights.

16.9 1 – Whelen Eight light Traffic Advisor Dominator Series mounted above the rear compartment door with controls in cab.

16.10 1 - Federal Model PA-300MSC solid state electronic siren with attached noise-canceling microphone mounted for convenient access for driver and officer with one chrome or polished aluminum 100 watt speaker mounted in front bumper with low profile floor mounted switch for officer and horn operated control for driver that switches from horn to siren control when electronic siren is in the on position.

16.11 2 - Grover "Stuttertone" air horns with floor switch right side of cab and halyard on the left side of cab mounted in front bumper.

17. Electrical

17.1 Where high or low voltage electrical cord, that is not in a conduit or other protective sheath, penetrates a metal surface, rubber or plastic grommets or bushings shall be installed.

17.2 1 - Cole-Hersee master battery switch mounted to left of driver's seat.

17.3 1 - master switch for emergency lights in addition to individual switches for Federal Signal Split-Vision SLR lights, rear SLR lights, front emergency lights, side emergency lights and rear emergency lights in cab.

17.4 1 - master switch for all lights controlled at pump panel except as provided in the following item.

17.5 1 of the left side pump panel lights to be controlled by the parking brake.

17.6 All switches in cab for emergency lights and compartments lights and other lights to be functionally arranged in single console easily accessible to driver or officer. (Owner to approve location and design of console.)

17.7 Space to mount a VHF two piece mobile radio (control panel and separate receiver/transmitter) with the control panel in a position that will be convenient for use by the driver and officer and space for the receiver/transmitter. (Owner will supply and mount radio.)

17.8 Space to mount a VHF two piece mobile radio (control panel and separate receiver/transmitter) with the control panel in an accessible location with an in-channel mobile repeater with a bandpass and notch filter. (Owner will supply and mount radio and repeater.)

17.9 All interior switches to be heavy-duty toggle switches with integral indicator lights.

17.10 All exterior switches to be heavy-duty weatherproof toggle switches with indicator lights.

17.11 1 - battery charger/conditioner wired into batteries with 110 VAC power received from the shore line receptacle.

17.12 110 VAC power receptacle in left rear compartment for rescue tool charger with 110 VAC power received from the shoreline receptacle. (Owner to provide charger.)

17.13 110 VAC power receptacle in right rear compartment for battery chargers with 110 VAC power received from the shoreline receptacle. (Owner to provide charger.)

17.14 A minimum of 2 spare switches in cab for future use.

18. Paint

18.1 All exterior and exposed surfaces to be sanded, cleaned, primed, and painted with a minimum of three coats of Dupont Imron paint with a clear finish coat and buffed to provide a high gloss quality finish. Paint shall be red Imron 65296u. Contractor to provide paint samples to Owner for approval before painting.

18.2 Cab to be white Imron 817u over red. White to start below windows and above grill on front.

18.3 Front and rear wheels shall be painted the same red as body.

18.4 The interior of all compartments shall be painted with a high quality scratch and chip resistant grey on white splatter paint.

18.5 Contractor shall provide a container of touch-up-paint to the Owner.

18.6 6" Reflective striping to be white and location to be approved by Owner.

18.7 Gold leaf lettering and detailing to match current Norwich Engine 1. Apparatus designation will be "Engine 1". Left and right doors to have NORWICH and ENGINE 1. Front of cab to have NFD on left side and E1 on right side.

18.8 The rear of the apparatus and roll-up door is to be painted with red/yellow chevrons and have NFD and E1 in reflective stripping to match "Keep Back 500' marking.

18.9 The front bumper is to painted with red/yellow chevrons.

*****End of Document*****