



Vermont Better Roads Grant Program Application

Please complete one application per category and/or project you are applying for. You may make copies of the application for multiple applications per category and/or multiple categories.

Please check the Category you are applying for:

- B. Correction of a Road Related Erosion Problem and/or Stormwater Mitigation Retrofit for both gravel and paved roads
- C. Correction of a Stream Bank or Slope Related Problem
- D. Structure/culvert upgrades

Town/Organization: _____

Project Name: _____

Road Name: _____ TH #: _____ Structure # (if applicable): _____

Road Type: Paved or Unpaved (circle one) Curbed or Uncurbed (circle one)

Class 1 Class 2 Class 3 Class 4 (circle one)

Watershed: _____

Please provide a thorough description of the problem (ex. Roadway has steep slope with no ditch which is causing roadway erosion):

Description of Project and how you plan to complete the work (ex. Stone line 500' of ditch by reshaping ditch and stone lining, working from the top of the project down to the bottom):

Expected Effects (+ & -) on water quality (ex. Erosion will be eliminated by placing the stone ditch):



Distance from end of project to nearest water (stream, lake, or stormwater system that outlets directly to water). Please circle one: 0-50' 50-250' 250'+

Progress to Date:

Is there an emergency reason this project must be completed quickly? If yes, please explain:

Has this project been identified through a municipal road inventory, capital budget plan, tactical basin plan, culvert inventory, or other management plan? If yes, please list which.

Yes: _____

No

Please list any professionals you may have contacted for assistance with this project (ANR River Management Engineer, Army Corps of Engineers, VTrans District Technical staff, Basin Planner etc.):

Is the project located in the town "Right of Way?" Yes, No, Both (if "Both" please explain further).

Will the town road crew complete this work? Yes, No, Some (if "some" please explain further).



Describe how the grant funds will be spent and/or attach a project budget:

How do you plan to meet the required 20% match on this grant?:

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D): _____

Estimated Total Project Cost (including 20% local match): _____

Estimated Completion Date: _____

REQUIRED ATTACHMENTS:

- Itemized Cost Estimate (labor, equipment, materials)
(For assistance, call Better Backroads at 802-828-4585)
- Project Location Map
(Please show location of affected water; 1:12,000 USGS map, if possible)
- Sketch of proposed erosion control measures, including:
 - Distances (ft.)
 - Estimate of waste & borrow quantities
 - Approx. location of town/other right-of-way and/or property lines
- Photo(s) of the project area.
- Agreement for Entry and/or Deed of Easement (if project is outside Town ROW).
- If project involves stream or river/road conflict, include documentation of consultation with a River Management Engineer.
- Other appropriate supporting documents.

By signing this application I certify that all the information provided is accurate to the best of my knowledge. We will comply with all the requirements of the grant including making our books available for audit if required.

SIGNATURE OF APPLICANT: (Must be Town Administrator/Manager or Select Board Chair)

Name: _____ Title: _____

Cost Estimate Worksheet

Town and Road Name: Town of Monkton, Monkton Rd.

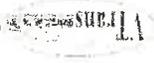
Project Name: Monkton Rd. Culvert Replacement

| Labor | Rate | # Hours | Total (Rate x Hours) |
|----------------------|-------|---------|----------------------|
| 2 laborers | \$62- | 4 hrs | \$248- |
| 2 truck Drivers | \$62- | 4 hrs | \$248- |
| 1 Excavator Operator | \$31- | 4 hrs | \$124- |
| Labor Total | | | \$620- |

| Equipment | Rate | # Hours | Total (Rate x Hours) |
|-----------------|------------------|---------|----------------------|
| Excavator | \$150 per hour | 4 | \$600 |
| Dump truck | \$70 per hour | 4 | \$280 |
| Dump truck | \$70 per hour | 4 | \$280 |
| Compactor | \$11.60 per hour | 1 hrs | \$11.60 |
| Equipment Total | | | \$1,171.60 |

| Materials | Rate | Amount | Total (Rate x Amount) |
|--|------------------|----------|-----------------------|
| 2 1/4 yard loads of 1" Stone | \$10.25 per yard | 28 yards | \$287- |
| 1 1/4 yard load of 3/4" crushed gravel | \$9.50 per yard | 14 yards | \$133- |
| 50' of 24" Steel Culvert | \$18.84 per foot | 50 feet | \$942- |
| 2 24" Culvert bands | \$18.84 per foot | 4 feet | \$75.36- |
| Materials Total | | | \$1,437.36 |

| Miscellaneous | Rate | Amount | Total (Rate x Hours) |
|---------------------|------|--------|----------------------|
| Miscellaneous Total | | | |
| Grand Total | | | \$3,228.96 |
| Match | | | |





Cedar Lake

Town Row

Estimate of (1) 14 yard load of waste and borrow Removed

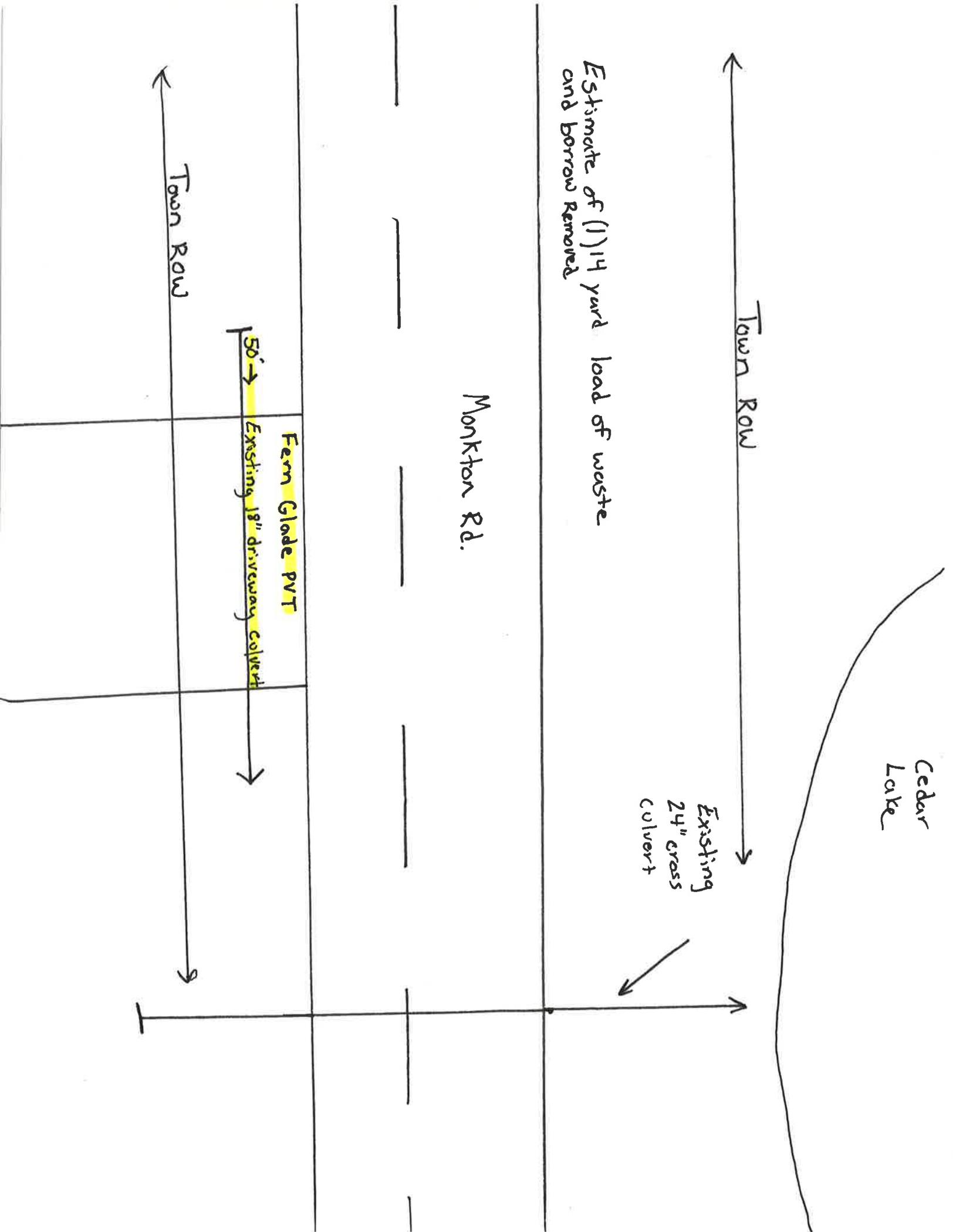
Existing 24" grass culvert

Monkton Rd.

Fern Glade PVT

50' → Existing 18" driveway culvert

Town Row









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Please check the Category you are applying for:

- B. Correction of a Road Related Erosion Problem and/or Stormwater Mitigation Retrofit for both gravel and paved roads
- C. Correction of a Stream Bank or Slope Related Problem
- D. Structure/culvert upgrades

Town/Organization: Town of Monkton

Project Name: Monkton Rd. Ditch Stabilization

Road Name: Monkton Rd. TH #: _____ Structure # (if applicable): _____

Road Type: Paved Uncurbed

Class 2

Watershed: Monkton Pond/Cedar Lake

Please provide a thorough description of the problem (ex. Roadway has steep slope with no ditch which is causing roadway erosion):

The roadway has steep ditch banks with constant water flow which is eroding the bottom of the ditch. There is a steep hill adjacent to the roadway that has about three spots where the water runs off of the hill at a high rate of speed almost all year. When the water enters the ditch it erodes the shoulder of the road. All of the surface water and silt drains into Cedar Lake, which is most of the reason why we would like to correct this issue. The Section of ditch that we would like to address with this grant is approximately 500'.

Description of Project and how you plan to complete the work (ex. Stone line 500' of ditch by reshaping ditch and stone lining, working from the top of the project down to the bottom):

We would like to reshape the ditch. We wouldn't have to dig the ditch any deeper just fix the shoulder and side hill where the water has caused deep washes. After we get our ditch shaped we would be lining the ditch with 6" to 12" erosion stone at a thickness of at least 12". We would also be adding some stone check dams where the water comes off the adjacent side hill to control the water velocity to better manage any future eroding issues.

Expected Effects (+ & -) on water quality (ex. Erosion will be eliminated by placing the stone ditch):

By reshaping and stone lining this specific ditch we hope to accomplish little to no erosion issues in the future. The water running down the ditch will be slowed by stone lining the ditch with erosion stone. The water running off the side hill into the ditch will be slowed by putting stone check dams where they enter the ditch. That will help eliminate the shoulder of the road from washing away. A large portion of this projects initiative is to keep the run off and silt out of Cedar Lake.



Distance from end of project to nearest water (stream, lake, or stormwater system that outlets directly to water). 50-250'

Progress to Date:

None

Is there an emergency reason this project must be completed quickly? If yes, please explain:

No

Has this project been identified through a municipal road inventory, capital budget plan, tactical basin plan, culvert inventory, or other management plan? If yes, please list which.

Yes: _____

No

Please list any professionals you may have contacted for assistance with this project (ANR River Management Engineer, Army Corps of Engineers, VTrans District Technical staff, Basin Planner etc.):
Alan May from Better Roads of Vermont

Is the project located in the town "Right of Way?" Yes, No, Both (if "Both" please explain further).

Yes

Will the town road crew complete this work? Yes, No, Some (if "some" please explain further).

Some. We would be hiring a private contractor for all of the excavation portion of the project.



Describe how the grant funds will be spent and/or attach a project budget:

Attached is a project budget sheet.

How do you plan to meet the required 20% match on this grant?:

We plan on meeting the required 20% match for this grant by using our own dump trucks and truck operators and if necessary we will use some of our 2016 budget on erosion stone.

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D): \$ 14,662.00

Estimated Total Project Cost (including 20% local match): \$ 18,327.50

Estimated Completion Date: 09/30/2016

REQUIRED ATTACHMENTS:

- Itemized Cost Estimate (labor, equipment, materials)
(For assistance, call Better Backroads at 802-828-4585)
- Project Location Map
(Please show location of affected water; 1:12,000 USGS map, if possible)
- Sketch of proposed erosion control measures, including:
 - Distances (ft.)
 - Estimate of waste & borrow quantities
 - Approx. location of town/other right-of-way and/or property lines
- Photo(s) of the project area.
- Agreement for Entry and/or Deed of Easement (if project is outside Town ROW).
- If project involves stream or river/road conflict, include documentation of consultation with a River Management Engineer.
- Other appropriate supporting documents.

By signing this application I certify that all the information provided is accurate to the best of my knowledge. We will comply with all the requirements of the grant including making our books available for audit if required.

SIGNATURE OF APPLICANT: (Must be Town Administrator/Manager or Select Board Chair)

Name: _____ Title: Road Commissioner

Cost Estimate Worksheet

Town and Road Name: Monkton, Monkton Rd.

Project Name: Monkton Rd. Ditch Stabilization



| Labor | Rate | # Hours | Total (Rate x Hours) |
|-------------------------|----------------|----------|-----------------------|
| Truck Driver | \$31.00 | 25 | \$775- |
| Truck Driver | \$31.00 | 25 | \$775- |
| Truck Driver | \$31.00 | 25 | \$775- |
| Excavator Operator | \$31.00 | 25 | \$775- |
| Labor Total | | | \$3,100- |
| Equipment | Rate | # Hours | Total (Rate x Hours) |
| Excavator | \$150 per hour | 25 | \$3,750.00 |
| Dump Truck | \$70 per hour | 25 | \$1,750- |
| Dump Truck | \$70 per hour | 25 | \$1,750- |
| Dump Truck | \$70 per hour | 25 | \$1,750- |
| Equipment Total | | | \$9,000- |
| Materials | Rate | Amount | Total (Rate x Amount) |
| 6" to 12" Erosion Stone | \$8 per ton | 630 tons | \$5,040.00 |
| Materials Total | | | \$5,040.00 |
| Miscellaneous | Rate | Amount | Total (Rate x Hours) |
| Traffic Control | \$47.50 per hr | 25 hours | \$1,187.50 |
| Miscellaneous Total | | | \$1,187.50 |
| Grand Total | | | \$18,327.50 |

Match

Class B

Sketch of Erosion control Measures

█ = ROW

Cedar Lake

Town Row

Monkton Road

Approximately 170 yards of waste + borrow

18" culvert
50'

570' of proposed ditching w/ erosion stone

Water run off with proposed check dams

Cross

Culvert 18"

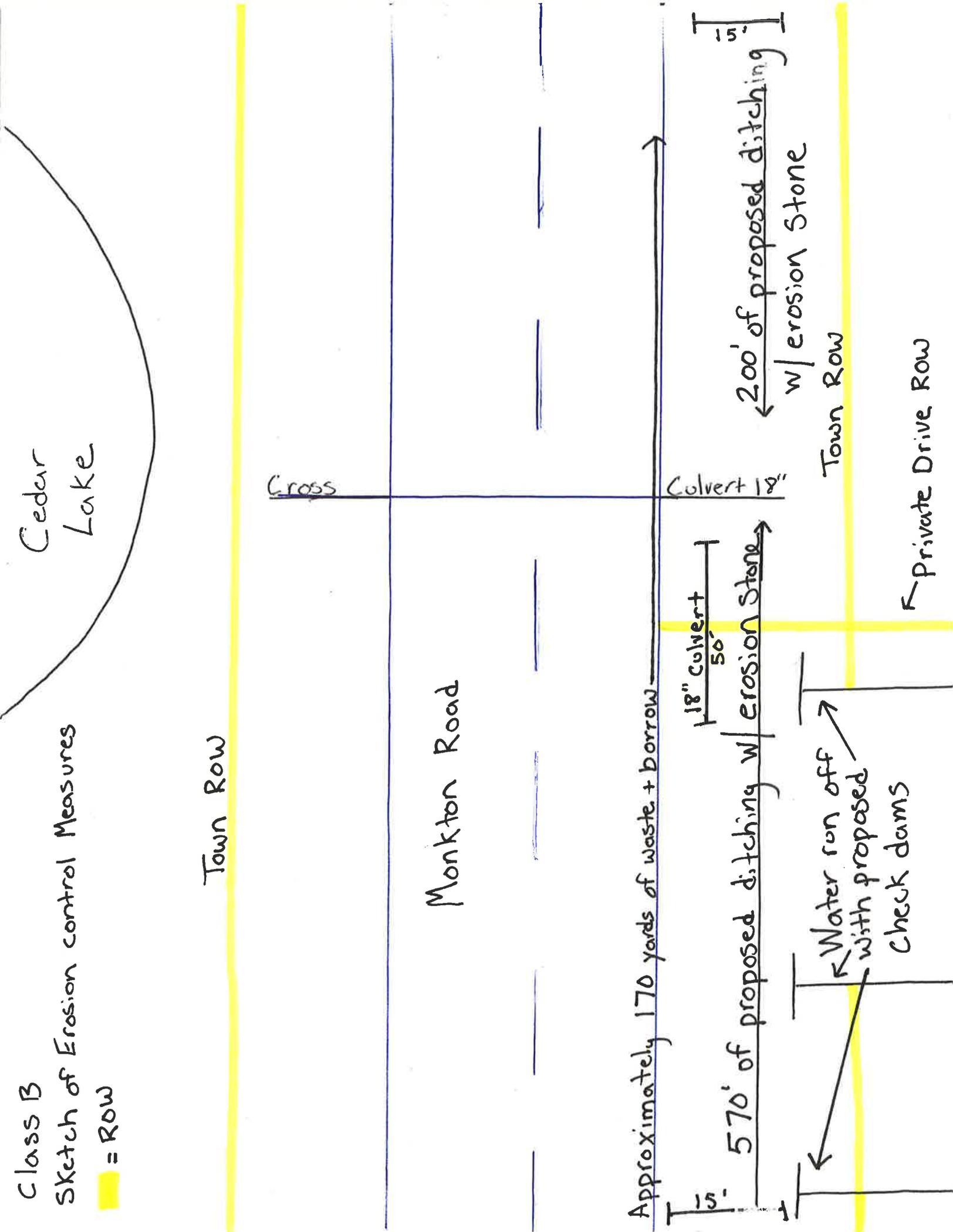
200' of proposed ditching w/ erosion stone

Town Row

Private Drive Row

15'

15'



Markton

B



