



620782P  
August 12, 2010

Mr. Steve Gladczyk  
Senior Transportation Planner  
Central Vermont Regional Planning Commission  
29 Main St. Suite 4  
Montpelier, VT 05602

Re: Town of Moretown – Sidewalk Study Update  
Contract #0981674  
Off Street Sidewalks at Moretown Elementary School

Dear Steve:

As part of the Moretown Sidewalk Conceptual Alignment Update, we were requested to develop a cost estimate for sidewalks to connect Vermont Route 100B with entrances to the Moretown Elementary School. We have taken into consideration the discussion with the schools' principal, discussion at the Alternatives Presentation Meeting, conducted a field visit, prepared a conceptual plan and developed cost estimates. This letter includes the plan, estimate and a brief statement on each proposed sidewalk.

### **Existing Conditions**

Moretown Elementary School currently has a sidewalk in very good condition that leads from Vermont Route 100B to the stairs at the historic front entrance. There is additional sidewalk along the northern and eastern sides of the parking lot that leads to the new entrance on the north side of the school, but this sidewalk does not connect to Vermont Route 100B; is in very poor condition; and lacks truncated dome warning devices.

Two vehicular driveways provide access from Vermont Route 100B to the school. One is located next to the Town Clerk's office and has a paved width of 22 feet. The other is located between the school and the adjacent church and is approximately 15 feet wide. The schools' parking lot has a drainage swale that runs north through it, which drains into the field east of the Town Clerk's office, as well as several storm drains.

### **Alignments**

Six proposed sidewalk routes have been considered. These are:

1. An curbed sidewalk along the south side of the driveway adjacent to the Town Clerk's Office, then along the western edge of the school parking lot towards the existing sidewalk on the north side of the school.
2. A curbed sidewalk following the driveway located between the school and the adjacent church, which would lead to the existing sidewalk and to the entrance on the north side of the school.

3. A curbed sidewalk following the driveway adjacent to the Town Clerk's office, then following the northern and eastern edges of the parking lot to join the existing sidewalk, and then towards the entrance on the north side of the school.
4. A combination of curbed and uncurbed sidewalk that parallels the driveway adjacent to the Town Clerk's office, but which passes on the northern side of the office, and then follows the northern and eastern edges of the parking lot to join the existing sidewalk.
5. An uncurbed sidewalk along the southern edge of the school utilizing the south entrance to the school.
6. Simply using the existing sidewalk that leads from VT 100B to the historic front entrance of the school

## Estimates

DuBois & King has developed cost estimates for the construction of new sidewalks at the elementary school. An estimate for the reconstruction of the existing sidewalk at the north entrance to the school that is in poor condition has also been included. The estimates were prepared using the latest copy of the VTrans 2-year Averaged Price List and the prepared conceptual plan. It has been assumed that no right of way acquisition will be necessary and that any sidewalks would be constructed on land owned by the Town or school. Design and inspection costs were estimated to be approximately 20% and 10% of the construction costs respectively. The total estimated cost of constructing each sidewalk alternative is presented in the following table. More detailed breakdowns of the construction estimates are attached.

Description	Construction	Engineering	Inspection	Total
Option 1 - New Sidewalk on south side of Town Clerk and west side of school parking lot	\$73,000	\$14,600	\$7,300	\$94,900
Option 2 - New sidewalk between school and church	\$32,000	\$6,400	\$3,200	\$41,600
Option 3 - New sidewalk on south side of Town Clerk and north/east side of school parking lot	\$81,000	\$16,200	\$8,100	\$105,300
Option 4 - New sidewalk on north side of Town Clerk and north/east side of school parking lot	\$60,000	\$12,000	\$6,000	\$78,000
Option 5 - New sidewalk on south side of school	\$40,000	\$8,000	\$4,000	\$52,000
Option 6 – Existing Sidewalk to front of school	\$0	\$0	\$0	\$0
Reconstruct Existing Sidewalk at north entrance	\$62,000	\$12,400	\$6,200	\$80,600

## Discussion

The choice of sidewalk alignments is largely dependant upon which entrance to the school is determined to be the best for the safety and security of the students. Other factors that should be considered are costs, impacts to vehicular traffic circulation, and safety.

Option 1 would follow the south side of the driveway adjacent to the Town Clerk's office, and then the western edge of the existing school parking lot to the north entrance of the school. It avoids the falling ice hazard between the school and the church, and is shorter overall than the other options that follow the edge of the parking lot to join with the existing school sidewalk. The driveway adjacent to the Town Clerk's office is already narrow at 22 feet. There is approximately 26 feet between the guard rail adjacent to the Town Clerk's office and the fence along the driveway. Adding a sidewalk would most likely require narrowing the driveway to approximately 19 feet. Ledge was observed near the northwestern corner of the parking lot, and this would need to be removed in order to maintain the width of the drive. This option will require narrowing the driveway by the Town Clerk's office to approximately 19 feet. Students and motorists will need to be careful where this route crosses the drive by the church.



This option provides a shorter walking path to the main entrance than some of the other options, but students may still be tempted to leave the sidewalk and walk to the entrance through the parking lot.

Option 2, which would follow the drive between the church and school, would narrow the existing driveway from 15 feet to 10 feet, and would require that vehicular traffic be restricted to one direction. Vehicles entering the driveway would need to watch for pedestrians accessing the sidewalk or walking adjacent to it. A second point of vehicle/pedestrian conflict would occur near the signed handicap parking spaces located near the entrance approximately 120 feet from Vermont Route 100B. Signs currently warn of falling snow and ice in this drive, and placing a sidewalk here would subject pedestrians to these hazards. This option appears to be located on school property but would require deed research to confirm.

Option 3 is more expensive than the first two since it is longer. This option will require narrowing the driveway by the Town Clerk's office to approximately 19 feet. This alignment would cross the parking spaces at the Town Clerk's office and the access road to the recreational fields, creating points of vehicle and pedestrian conflict. This alignment, as well as Option 4, does not lead pedestrians to the school entrance in a straight line. Pedestrians may choose to shortcut through the parking lot rather than remaining on the sidewalk, creating additional pedestrian and vehicle conflicts. This option appears to require the use of private property to relocate the driveway.

Option 4 would also be expensive, but would pose fewer challenges related to vehicular traffic since it would avoid the existing driveway. Pedestrians would still need to cross the access road to the recreational fields, and drainage structures would be required where the sidewalk crosses the existing swale. This option appears to avoid encroachment onto private property.

Option 5 would be in the middle of the estimated price range and would avoid pedestrian and vehicular conflicts. It would route pedestrians close to the utility connections for the building, and be difficult to see portions of the sidewalk from the roadway. This option would use the south entrance to the school and would have greater impacts on the landscaped vegetation than any of the other options. This option appears to be located entirely on the school's property.

Option 6 is to use the existing sidewalk that makes a direct connection between the sidewalk along VT 100B and the school's front entrance. The sidewalk is in good condition and could be used as is, if the school was to determine the front entrance is appropriate for use.

The existing sidewalks adjacent to the school parking lot are in very poor condition. These should be reconstructed regardless of the new option chosen due to the tripping hazard that they pose.

If you have any questions about our estimate, conceptual plan or analysis, please do not hesitate to call me at (802) 728-3376.

Very truly yours,  
DuBOIS & KING, INC.



Evan P. Detrick, P.E.  
Project Manager

Encl.



**NOT TO SCALE**

**PLOTTED 8/3/2000**

**TOWN OF MORETOWN**  
**SIDEWALK STUDY**  
**SCHOOL SIDEWALK**  
**POTENTIAL ALIGNMENTS**

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**Dubois & King, Inc.**  
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JULY 2010	JDM	EFD	0012		JDM		



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JOB 620782 Moretown Sidewalk Study

SHEET NO. 1 OF 6

CALCULATED BY: JDM DATE: 30-Jul-10

CHECKED BY: EPD DATE:

SCALE:

## ENGINEER'S PRELIMINARY ESTIMATE OF PROBABLE CONSTRUCTION COST

### NEW FRONT ENTRANCE - PCC SIDEWALK GOING PAST TOWN CLERK ON SOUTH SIDE

ITEM NO.	DESCRIPTION	UNIT	QUANT.	UNIT PRICE	AMOUNT			
201.11	CLEARING AND GRUBBING, INCL. INDV. TREES AND STUMPS	LS	1.0	\$500.00	\$500.00			
203.15	COMMON EXCAVATION	CY	155.0	\$7.00	\$1,085.00			
203.16	SOLID ROCK EXCAVATION	CY	90.0	\$20.00	\$1,800.00			
301.15	SUBBASE OF GRAVEL	CY	155.0	\$28.00	\$4,340.00			
406.25	BITUMINOUS CONCRETE PAVEMENT	T	55.0	\$150.00	\$8,250.00			
616.21	VERTICAL GRANITE CURB	LF	360.0	\$38.00	\$13,680.00			
618.10	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SY	205.0	\$75.00	\$15,375.00			
618.30	DETECTABLE WARNING SURFACE	SF	30.0	\$50.00	\$1,500.00			
631.16	TESTING EQUIPMENT, CONCRETE	LS	1.0	\$900.00	\$900.00			
631.17	TESTING EQUIPMENT, BITUMINOUS	LS	1.0	\$650.00	\$650.00			
635.11	MOBILIZATION/DEMOBILIZATION	LS	1.0	\$7,500.00	\$7,500.00			
641.10	TRAFFIC CONTROL	LS	1.0	\$2,500.00	\$2,500.00			
651.15	SEED	LB	2.5	\$10.00	\$25.00			
651.18	FERTILIZER	LB	25.0	\$3.00	\$75.00			
651.20	AGRICULTURAL LIMESTONE	T	0.10	\$500.00	\$50.00			
651.25	HAY MULCH	T	0.10	\$600.00	\$60.00			
651.35	TOPSOIL	CY	15.0	\$25.00	\$375.00			
652	EROSION CONTROL	LS	1.0	\$2,000.00	\$2,000.00			
SUBTOTAL				\$60,665.00				
CONTINGENCY (20%)				\$12,133.00				
TOTAL				\$72,798.00				
USE		\$73,000.00						
Surface Material:	PCC	Length	360	ft	Cost per foot:	\$203		

**Note:** In providing opinions of probable construction cost, the Client understands that D&K has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's method of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. D&K makes no warranty, expressed or implied, that the bids or the negotiated cost of the Work will not vary from the Opinion of Probable Construction Cost provided herein.



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JOB 620782 Moretown Sidewalk Study

SHEET NO. 2 OF 6

CALCULATED BY: JDM DATE: 30-Jul-10

CHECKED BY: EPD DATE:

SCALE:

## ENGINEER'S PRELIMINARY ESTIMATE OF PROBABLE CONSTRUCTION COST

### NEW ENTRANCE - PCC SIDEWALK GOING PAST CHURCH

ITEM NO.	DESCRIPTION	UNIT	QUANT.	UNIT PRICE	AMOUNT
201.11	CLEARING AND GRUBBING, INCL. INDV. TREES AND STUMPS	LS	1.0	\$500.00	\$500.00
203.15	COMMON EXCAVATION	CY	50.0	\$7.00	\$350.00
301.15	SUBBASE OF GRAVEL	CY	40.0	\$28.00	\$1,120.00
406.25	BITUMINOUS CONCRETE PAVEMENT	T	6.0	\$150.00	\$900.00
616.21	VERTICAL GRANITE CURB	LF	165.0	\$38.00	\$6,270.00
618.10	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SY	95.0	\$75.00	\$7,125.00
618.30	DETECTABLE WARNING SURFACE	SF	20.0	\$50.00	\$1,000.00
631.16	TESTING EQUIPMENT, CONCRETE	LS	1.0	\$900.00	\$900.00
631.17	TESTING EQUIPMENT, BITUMINOUS	LS	1.0	\$650.00	\$650.00
635.11	MOBILIZATION/DEMOBILIZATION	LS	1.0	\$2,500.00	\$2,500.00
641.10	TRAFFIC CONTROL	LS	1.0	\$2,500.00	\$2,500.00
651.15	SEED	LB	1.2	\$10.00	\$12.00
651.18	FERTILIZER	LB	10.0	\$3.00	\$30.00
651.20	AGRICULTURAL LIMESTONE	T	0.05	\$500.00	\$25.00
651.25	HAY MULCH	T	0.05	\$600.00	\$30.00
651.35	TOPSOIL	CY	6.0	\$25.00	\$150.00
652	EROSION CONTROL	LS	1.0	\$2,000.00	\$2,000.00
<b>SUBTOTAL</b>				<b>\$26,062.00</b>	
<b>CONTINGENCY (20%)</b>				<b>\$5,212.40</b>	
<b>TOTAL</b>				<b>\$31,274.40</b>	
<b>USE</b>				<b>\$32,000.00</b>	
Surface Material:	PCC	Length	165	ft	Cost per foot: \$194

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JOB 620782 Moretown Sidewalk Study

SHEET NO. 3 OF 6

CALCULATED BY: JDM DATE: 30-Jul-10

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SCALE:

## ENGINEER'S PRELIMINARY ESTIMATE OF PROBABLE CONSTRUCTION COST

### NEW FRONT ENTRANCE - PCC SIDEWALK GOING PAST TOWN CLERK ON SOUTH SIDE

ITEM NO.	DESCRIPTION	UNIT	QUANT.	UNIT PRICE	AMOUNT
201.11	CLEARING AND GRUBBING, INCL. INDV. TREES AND STUMPS	LS	1.0	\$500.00	\$500.00
203.15	COMMON EXCAVATION	CY	165.0	\$7.00	\$1,155.00
203.16	SOLID ROCK EXCAVATION	CY	90.0	\$20.00	\$1,800.00
301.15	SUBBASE OF GRAVEL	CY	165.0	\$28.00	\$4,620.00
406.25	BITUMINOUS CONCRETE PAVEMENT	T	55.0	\$150.00	\$8,250.00
616.21	VERTICAL GRANITE CURB	LF	400.0	\$38.00	\$15,200.00
618.10	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SY	225.0	\$75.00	\$16,875.00
618.30	DETECTABLE WARNING SURFACE	SF	20.0	\$50.00	\$1,000.00
631.16	TESTING EQUIPMENT, CONCRETE	LS	1.0	\$900.00	\$900.00
631.17	TESTING EQUIPMENT, BITUMINOUS	LS	1.0	\$650.00	\$650.00
635.11	MOBILIZATION/DEMOLITION	LS	1.0	\$6,000.00	\$6,000.00
641.10	TRAFFIC CONTROL	LS	1.0	\$2,500.00	\$2,500.00
651.15	SEED	LB	3.0	\$10.00	\$30.00
651.18	FERTILIZER	LB	25.0	\$3.00	\$75.00
651.20	AGRICULTURAL LIMESTONE	T	0.10	\$500.00	\$50.00
651.25	HAY MULCH	T	0.10	\$600.00	\$60.00
651.35	TOPSOIL	CY	13.0	\$25.00	\$325.00
652	EROSION CONTROL	LS	1.0	\$2,000.00	\$2,000.00
	CATCH BASIN	LS	1.0	\$5,000.00	\$5,000.00
<b>SUBTOTAL</b>				<b>\$66,990.00</b>	
<b>CONTINGENCY (20%)</b>				<b>\$13,398.00</b>	
<b>TOTAL</b>				<b>\$80,388.00</b>	
<b>USE</b>				<b>\$81,000.00</b>	
Surface Material:	PCC	Length	400	ft	Cost per foot: \$203

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SHEET NO. 4 OF 6

CALCULATED BY: JDM DATE: 30-Jul-10

CHECKED BY: EPD DATE:

SCALE:

### ENGINEER'S PRELIMINARY ESTIMATE OF PROBABLE CONSTRUCTION COST

#### NEW FRONT ENTRANCE - PCC SIDEWALK GOING PAST TOWN CLERK ON NORTH SIDE

ITEM NO.	DESCRIPTION	UNIT	QUANT.	UNIT PRICE	AMOUNT
201.11	CLEARING AND GRUBBING, INCL. INDV. TREES AND STUMPS	LS	1.0	\$500.00	\$500.00
203.15	COMMON EXCAVATION	CY	105.0	\$7.00	\$735.00
301.15	SUBBASE OF GRAVEL	CY	80.0	\$28.00	\$2,240.00
406.25	BITUMINOUS CONCRETE PAVEMENT	T	10.0	\$150.00	\$1,500.00
616.21	VERTICAL GRANITE CURB	LF	245.0	\$38.00	\$9,310.00
618.10	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SY	225.0	\$75.00	\$16,875.00
618.30	DETECTABLE WARNING SURFACE	SF	20.0	\$50.00	\$1,000.00
631.16	TESTING EQUIPMENT, CONCRETE	LS	1.0	\$900.00	\$900.00
631.17	TESTING EQUIPMENT, BITUMINOUS	LS	1.0	\$650.00	\$650.00
635.11	MOBILIZATION/DEMOBILIZATION	LS	1.0	\$6,000.00	\$6,000.00
641.10	TRAFFIC CONTROL	LS	1.0	\$2,500.00	\$2,500.00
651.15	SEED	LB	3.0	\$10.00	\$30.00
651.18	FERTILIZER	LB	25.0	\$3.00	\$75.00
651.20	AGRICULTURAL LIMESTONE	T	0.10	\$500.00	\$50.00
651.25	HAY MULCH	T	0.10	\$600.00	\$60.00
651.35	TOPSOIL	CY	13.0	\$25.00	\$325.00
652	EROSION CONTROL	LS	1.0	\$2,000.00	\$2,000.00
	CATCH BASIN	LS	1.0	\$5,000.00	\$5,000.00

**SUBTOTAL** \$49,750.00

**CONTINGENCY (20%)** \$9,950.00

**TOTAL** \$59,700.00

**USE**

**\$60,000.00**

Surface Material:	PCC	Length	400	ft	Cost per foot:	\$150			
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**Note:** In providing opinions of probable construction cost, the Client understands that D&K has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's method of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. D&K makes no warranty, expressed or implied, that the bids or the negotiated cost of the Work will not vary from the Opinion of Probable Construction Cost provided herein.





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SHEET NO. 5 OF 6

CALCULATED BY: JDM DATE: 30-Jul-10

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SCALE:

## ENGINEER'S PRELIMINARY ESTIMATE OF PROBABLE CONSTRUCTION COST

### UNCURBED PCC SIDEWALK ON SOUTH SIDE OF SCHOOL

ITEM NO.	DESCRIPTION	UNIT	QUANT.	UNIT PRICE	AMOUNT
201.11	CLEARING AND GRUBBING, INCL. INDV. TREES AND STUMPS	LS	1.0	\$3,000.00	\$3,000.00
203.15	COMMON EXCAVATION	CY	85.0	\$7.00	\$595.00
301.15	SUBBASE OF GRAVEL	CY	55.0	\$28.00	\$1,540.00
618.10	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SY	225.0	\$75.00	\$16,875.00
618.30	DETECTABLE WARNING SURFACE	SF	10.0	\$50.00	\$500.00
631.16	TESTING EQUIPMENT, CONCRETE	LS	1.0	\$900.00	\$900.00
631.17	TESTING EQUIPMENT, BITUMINOUS	LS	1.0	\$650.00	\$650.00
635.11	MOBILIZATION/DEMOBILIZATION	LS	1.0	\$5,000.00	\$5,000.00
641.10	TRAFFIC CONTROL	LS	1.0	\$500.00	\$500.00
651.15	SEED	LB	10.0	\$10.00	\$100.00
651.18	FERTILIZER	LB	70.0	\$3.00	\$210.00
651.20	AGRICULTURAL LIMESTONE	T	0.30	\$500.00	\$150.00
651.25	HAY MULCH	T	0.30	\$600.00	\$177.30
651.35	TOPSOIL	CY	40.0	\$25.00	\$1,000.00
652	EROSION CONTROL	LS	1.0	\$2,000.00	\$2,000.00

SUBTOTAL	\$33,197.30
CONTINGENCY (20%)	\$6,639.46
TOTAL	\$39,836.76

USE

\$40,000.00

Surface Material:	PCC	Length	400	ft	Cost per foot:	\$100
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JOB 620782 Moretown Sidewalk Study

SHEET NO. 6 OF 6

CALCULATED BY: JDM DATE: 30-Jul-10

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SCALE: \_\_\_\_\_

## ENGINEER'S PRELIMINARY ESTIMATE OF PROBABLE CONSTRUCTION COST

### RECONSTRUCT EXISTING DAMAGED SIDEWALK

ITEM NO.	DESCRIPTION	UNIT	QUANT.	UNIT PRICE	AMOUNT
201.11	CLEARING AND GRUBBING, INCL. INDV. TREES AND STUMPS	LS	1.0	\$500.00	\$500.00
203.15	COMMON EXCAVATION	CY	110.0	\$7.00	\$770.00
301.15	SUBBASE OF GRAVEL	CY	90.0	\$28.00	\$2,520.00
406.25	BITUMINOUS CONCRETE PAVEMENT	T	15.0	\$150.00	\$2,250.00
616.21	VERTICAL GRANITE CURB	LF	370.0	\$38.00	\$14,060.00
618.10	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SY	210.0	\$75.00	\$15,750.00
618.30	DETECTABLE WARNING SURFACE	SF	50.0	\$50.00	\$2,500.00
631.16	TESTING EQUIPMENT, CONCRETE	LS	1.0	\$900.00	\$900.00
631.17	TESTING EQUIPMENT, BITUMINOUS	LS	1.0	\$650.00	\$650.00
635.11	MOBILIZATION/DEMOBILIZATION	LS	1.0	\$6,000.00	\$6,000.00
641.10	TRAFFIC CONTROL	LS	1.0	\$2,500.00	\$2,500.00
651.15	SEED	LB	3.0	\$10.00	\$30.00
651.18	FERTILIZER	LB	25.0	\$3.00	\$75.00
651.20	AGRICULTURAL LIMESTONE	T	0.10	\$500.00	\$50.00
651.25	HAY MULCH	T	0.10	\$600.00	\$60.00
651.35	TOPSOIL	CY	15.0	\$25.00	\$375.00
652	EROSION CONTROL	LS	1.0	\$2,000.00	\$2,000.00

**SUBTOTAL** **\$50,990.00**

**CONTINGENCY (20%)** **\$10,198.00**

**TOTAL** **\$61,188.00**

**USE**

**\$62,000.00**

Surface Material:	PCC	Length	400	ft	Cost per foot:	\$155			
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