

**A RESOLUTION OF THE TOWNSHIP OF NORTH BRUNSWICK AMENDING  
CONTRACT BID22001 WITH LUCAS BROTHERS INC.  
FOR THE 2022 ROAD IMPROVEMENT PROGRAM PROJECT  
CLOSEOUT CHANGE ORDER (\$409,189.02)**

**WHEREAS**, the Mayor and Council have continued to fund and support the Municipal Road Program initiated in 2000 for pavement and reconstruction improvements of municipal streets, roads and curbing; and

**WHEREAS**, the Department of Community Development works with the CME Associates as the Municipal Engineer to oversee the Municipal Road Program; and

**WHEREAS**, in May of 2022, pursuant to Resolution 157-5.22, the Township Council authorized Contract BID22001 with Lucas Brothers Inc. of Morganville, New Jersey with a base bid of \$3,690,689.97 for Items 1 through 131, which is inclusive of Deletion Item A in the amount of \$170,049.09 and Deletion Item B in the amount of \$204,375.45; and

**WHEREAS**, there have been no previous change orders for this project; and

**WHEREAS**, with favorable conditions encountered throughout the project, Lucas Brothers Inc. has presented a Closeout Change Order that reflects reductions and increases in contract quantities and supplementary items required to satisfactorily complete the work, resulting in a net reduction in the contract amount of (\$409,189.02); and

**WHEREAS**, CME Associates, engineering firm for this project, has reviewed and indicated in a report attached hereto that this Closeout Change Order reflects reductions and increases in contract quantities and supplementary items required to satisfactorily complete the work; and

**WHEREAS**, a recommendation is hereby made to authorize an amendment to the contract with Lucas Brothers Inc. reducing the contract amount by (\$409,189.02) pursuant to the Closeout Change Order prepared by CME Associates, for a revised contract amount of \$3,281,500.95.

**NOW THEREFORE, BE IT RESOLVED**, on this 18<sup>th</sup> day of December 2023, the Township Council of the Township of North Brunswick does hereby authorize the Mayor to execute Closeout Change Order documents for the 2022 Road Improvements Program contract, which reflects a net contract reduction of (\$409,189.02).

\_\_\_\_\_  
Cavel Gallimore  
Chief Financial Officer

\_\_\_\_\_  
Michael C. Hritz  
Director of Community Development

\_\_\_\_\_  
Justine Progebin  
Business Administrator

\_\_\_\_\_  
Ronald Gordon, Esq.  
Township Attorney  
Approved as to legal form

**RECORDED VOTE:**

<b>COUNCIL MEMBER</b>	<b>YES</b>	<b>NO</b>	<b>ABSTAIN</b>	<b>NOTES</b>
HUTCHINSON				
GUADAGNINO				
ANDREWS				
DAVIS				
SOCIO				
MEHTA				
MAYOR WOMACK				

I hereby certify that the above Resolution was duly adopted by the Township Council of the Township of North Brunswick, County of Middlesex, at its meeting held on December 18, 2023.

\_\_\_\_\_  
Lisa Russo  
Township Clerk

JOHN H. ALLGAIR, PE, PP, LS (1983-2001)  
DAVID J. SAMUEL, PE, PP, CME  
JOHN J. STEFANI, PE, LS, PP, CME  
JAY B. CORNELL, PE, PP, CME  
MICHAEL J. McCLELLAND, PE, PP, CME  
GREGORY R. VALES, PE, PP, CME



BRUCE M. KOCH, PE, PP, CME  
LOUIS J. PLOSKONKA, PE, CME  
TREVOR J. TAYLOR, PE, PP, CME  
BEHRAM TURAN, PE, LSRP  
LAURA J. NEUMANN, PE, PP  
DOUGLAS ROHMEYER, PE, CFM, CME  
ROBERT J. RUSSO, PE, PP, CME  
JOHN J. HESS, PE, PP, CME  
KEITH CHIARAVALLO, PE, CME

October 30, 2023

Mayor and Township Council  
Township of North Brunswick  
710 Hermann Road  
North Brunswick, NJ 08902

**Re: Township of North Brunswick  
2022 Road Improvement Program  
Contract No. 22-001  
Our File No.: PNO-00656.02**

Dear Mayor and Township Council:

The 2022 Road Improvement Program, Contract No. 22-001 which included improvements to Antonio Drive, Hartland Commons, Hickory Lane, Hidden Lake Drive, How Lane, La Rose Avenue, Princess Drive, Regal Court, Riverbend Drive and Todd Circle have been satisfactorily completed by the Contractor, Lucas Brothers, Inc. and we are pleased to inform you that the final construction cost is under the original contract amount for the project due primarily to favorable conditions encountered throughout the project, which resulted in the reduction of items originally included in the Contract for contingency purposes.

Accordingly, please find enclosed a completed Voucher and Closeout Change Order and Final Payment Estimate No. 8 for work performed from June 3, 2023 to October 25, 2023.

Please note the Closeout Change Order reflects reductions and increases in contract quantities as well as supplementary items required to satisfactorily perform the work and reduces the contract amount from \$3,690,689.97 to \$3,281,500.95 for a net overall reduction of \$409,189.02.

The supplementary work described herein could not, in our opinion, have reasonably been effectuated by a separately bid contract without unduly disrupting the basic work and imposing adverse cost consequences on the Township and provides an improved level of service to the Residents of the Township.



Mayor and Township Council  
Township of North Brunswick  
Re: 2022 Road Improvement Program

October 30, 2023  
Our File No. PNO00656.02  
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Accordingly, we recommend final acceptance of the work, approval of Closeout Change Order and Final Payment Estimate No. 8 and payment to the Contractor in the amount of \$271,950.47, subject to the submission of a one (1) year 15% Maintenance Guarantee in the amount of \$492,225.14 and review and approval by the Township Attorney of the attached Closeout Change Order.

Should you have any questions regarding this matter, please do not hesitate to contact this office.

Very truly yours,



Michael J. McClelland, P.E.  
Township Engineer

MJM/JCW/pb  
Enclosures

cc: Justine Progebin, Business Administrator  
Lisa Russo, Township Clerk  
Ronald Gordon, Esq., Township Attorney  
Michael Hritz, Director of Community Development  
Lucas Brothers, Inc.

# VOUCHER

Date: 10/30/2023

## TOWNSHIP OF NORTH BRUNSWICK, NEW JERSEY

710 Hermann Road North Brunswick, NJ 08902

PAY TO:	LUCAS BROTHERS, INC	<b>Contract #</b> 22-001
ADDRESS:	80 AMBOY ROAD, MORGANVILLE NJ 07751	All bills must be itemized and accurately show for what service or material the same are presented
Contract #	22-001	

ACCOUNT CHARGED \_\_\_\_\_

DATE	DESCRIPTION	UNIT PRICE	TOTAL
	FOR WORK PERFORMED BY CONTRACTOR ON THE NORTH BRUNSWICK 2022 ROAD IMPROVEMENT PROGRAM FROM		
	06/03/2023 - 10/25/2023		
	IN ACCORDANCE WITH THE ATTACHED		
	CLOSEOUT CHANGE ORDER AND FINAL PAY ESTIMATE NO. 8		
	TOTAL VALUE OF WORK COMPLETED		\$3,281,500.95
	LESS RETAINAGE		\$0.00
	BALANCE		\$3,281,500.95
	LESS PREVIOUS PAYMENTS		\$3,009,550.48
	TOTAL AMOUNT DUE	<b>TOTAL</b>	\$271,950.47

<p style="text-align: center; margin-top: 0;"><b>CLAIMANTS CERTIFICATION AND DECLARATION</b></p> <p style="font-size: small;">I do solemnly declare and certify under the penalties of the law that the within bill is correct in all its particulars; that the articles have been furnished or services rendered as stated therein; that no bonus has been given or received by any person or persons with the knowledge of this claimant in connection with the above claim; that the amount therein stated is justly due and owing; and that the amount charged is a reasonable one.</p> <p style="margin-top: 20px;">(Sign Here)  _____</p> <p>Official Position <u>Sr. Project Manager</u></p> <p>T.I.N.#/S.S.# _____</p>	<p style="text-align: center; margin-top: 0;"><b>MUNICIPAL OFFICER'S CERTIFICATION</b></p> <p style="font-size: small;">Having knowledge of the facts in the course of regular procedures, I certify that the materials and supplies have been received or the services rendered; said certification is based on delivery slips acknowledged by a municipal official or employee or other reasonable procedures.</p> <p style="margin-top: 20px;">(Sign Here) _____</p> <p>Official Position _____</p>	<p style="text-align: center; margin-top: 0;"><b>APPROVED BY:</b></p> <p style="text-align: center; margin-top: 10px;">_____ Certified Financial Officer</p> <p>Date _____</p> <hr/> <p style="text-align: center;"><b>PAYMENT RECORD</b></p> <p>DATE: _____</p> <p>CHECK: _____</p>
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**CLOSEOUT CHANGE ORDER AND  
FINAL PAYMENT ESTIMATE NO. 8**

PROJECT NO. PNO-00656.02  
PROJECT NAME: 2022 Road Improvement Program  
OWNER: Township of North Brunswick

Period Included: 06/03/2023 - 10/25/2023  
Date Submitted: October 30, 2023  
Contractor: Lucas Brothers, Inc.

ITEM	DESCRIPTION	UNIT	WORK COMPLETED								
			UNIT PRICE		ORIGINAL BID	TOTAL		PREVIOUS ESTIMATE		CURRENT ESTIMATE	
			(Dollars	Cents)	Quantity	(Dollar	Cents)	Quantity	Extension	Quantity	Extension
1	Mobilization	LS	\$258,804.33		1	\$258,804.33	1.00	\$258,804.33	1.00	\$258,804.33	
2	Breakaway barricade	UN	\$0.01		77	\$0.77	0.00	\$0.00	0.00	\$0.00	
3	Drum	UN	\$0.01		274	\$2.74	0.00	\$0.00	0.00	\$0.00	
4	Traffic cone	UN	\$0.01		854	\$8.54	0.00	\$0.00	0.00	\$0.00	
5	Construction signs	SF	\$0.01		1174	\$11.74	0.00	\$0.00	0.00	\$0.00	
6	Traffic director, Municipal Police Allowance (\$150,000.00)	ALLOW	\$150,000.00		1	\$150,000.00	0.56986	\$85,479.32	0.61166	\$91,748.72	
7	Flashing arrow board, 4'x8'	UN	\$0.01		3	\$0.03	0.00	\$0.00	0.00	\$0.00	
8	Portable variable message sign	UN	\$0.01		3	\$0.03	3.00	\$0.03	3.00	\$0.03	
9	Traffic control truck with mounted crash cushion	UN	\$0.01		3	\$0.03	0.00	\$0.00	0.00	\$0.00	
10	Asphalt price adjustment (\$80,000.00)	ALLOW	\$80,000.00		1	\$80,000.00	-0.110122	-\$8,809.76	-0.110122	-\$8,809.76	
11	Fuel price adjustment (\$45,000.00)	ALLOW	\$45,000.00		1	\$45,000.00	-0.082613	-\$3,717.58	-0.082613	-\$3,717.58	
12	Allowance for work not specified (\$50,000.00)	ALLOW	\$50,000.00		1	\$50,000.00	0.00	\$0.00	0.84	\$42,000.00	
13	Remove existing curb or rolled curb and gutter	LF	\$0.01		7315	\$73.15	5,185.50	\$51.86	5,185.50	\$51.86	
14	Remove existing curb or rolled curb and gutter (Hickory Lane)	LF	\$0.01		2537	\$25.37	2,110.00	\$21.10	2,110.00	\$21.10	
15	Remove existing walks	SF	\$1.00		16124	\$16,124.00	16,022.00	\$16,022.00	16,022.00	\$16,022.00	
16	Remove existing walks (Hickory Lane)	SF	\$1.00		4120	\$4,120.00	7,680.28	\$7,680.28	7,680.28	\$7,680.28	
17	Remove and dispose of existing storm sewer structures (salvage castings)	UN	\$1.00		4	\$4.00	2.00	\$2.00	2.00	\$2.00	
18	Remove and dispose of existing storm sewer pipes	LF	\$1.00		190	\$190.00	117.00	\$117.00	117.00	\$117.00	
19	Remove existing fire hydrant, run-out and valve along municipal roadway, salvage hydrant to owner	UN	\$1.00		4	\$4.00	0.00	\$0.00	0.00	\$0.00	
20	Clearing site (L.S. \$45,000.00)	LS	\$45,000.00		1	\$45,000.00	0.850000	\$38,250.00	1.00	\$45,000.00	
21	Removal of pavement up to 14" deep	SY	\$0.01		1762	\$17.62	1,680.00	\$16.80	1,680.00	\$16.80	
22	Excavation, unclassified	CY	\$0.01		2163	\$21.63	682.00	\$6.82	682.00	\$6.82	
23	Remove and replace roadway base	SY	\$0.01		10861	\$108.61	2,377.00	\$23.77	2,377.00	\$23.77	
24	Driveway excavation, unclassified	CY	\$1.00		505	\$505.00	423.00	\$423.00	423.00	\$423.00	
25	Excavation, unclassified, test pit	CY	\$0.01		494	\$4.94	85.55	\$0.86	85.55	\$0.86	
26	Disposing of contaminated (Hazardous) soil (Allowance: \$50,000.00)	ALLOW	\$50,000.00		1	\$50,000.00	0.00	\$0.00	0.00	\$0.00	
27	2" to 2-1/2" clean stone subbase (Minimum unit price bid \$10.00/CY)	CY	\$10.00		656	\$6,560.00	0.00	\$0.00	0.00	\$0.00	
28	Geotextile roadway stabilization	SY	\$0.01		1961	\$19.61	0.00	\$0.00	0.00	\$0.00	
29	Dense graded aggregate base course (Minimum unit price bid \$10.00/CY)	CY	\$10.00		1235	\$12,350.00	1,118.00	\$11,180.00	1,228.00	\$12,280.00	
30	HMA milling, 3" or less	SY	\$2.90		44977	\$130,433.30	50,303.79	\$145,880.99	50,303.79	\$145,880.99	
31	HMA milling, 3" or less (Hickory Lane)	SY	\$1.65		5667	\$9,350.55	6,269.00	\$10,343.85	6,269.00	\$10,343.85	
32	Polymerized joint adhesive	LF	\$0.01		51642	\$516.42	4,105.00	\$41.05	4,105.00	\$41.05	
33	Prepare and seal existing transverse cracks in asphalt pavement with pavement repair geo composite membrane	LF	\$0.01		4384	\$43.84	4,134.00	\$41.34	4,134.00	\$41.34	
34	Tack Coat	GAL	\$0.01		8183	\$81.83	3,960.98	\$39.61	3,960.98	\$39.61	
35	Prime Coat	GAL	\$0.01		4863	\$48.63	0.00	\$0.00	0.00	\$0.00	

**CLOSEOUT CHANGE ORDER AND  
FINAL PAYMENT ESTIMATE NO. 8**

PROJECT NO. PNO-00656.02  
PROJECT NAME: 2022 Road Improvement Program  
OWNER: Township of North Brunswick

Period Included: 06/03/2023 - 10/25/2023  
Date Submitted: October 30, 2023  
Contractor: Lucas Brothers, Inc.

ITEM	DESCRIPTION	UNIT	WORK COMPLETED						
			UNIT PRICE	ORIGINAL BID	TOTAL	PREVIOUS ESTIMATE		CURRENT ESTIMATE	
			(Dollars Cents)	Quantity	(Dollar Cents)	Quantity	Extension	Quantity	Extension
36	Hot mix asphalt 9.5M64 surface and leveler course	TON	\$91.00	6863	\$624,533.00	7,020.12	\$638,830.92	7,020.12	\$638,830.92
37	Hot mix asphalt 9.5M64 surface and leveler course (Hickory Lane)	TON	\$95.00	1150	\$109,250.00	919.73	\$87,374.35	919.73	\$87,374.35
38	Hot mix asphalt 19M64 base course	TON	\$110.00	2564	\$282,040.00	964.61	\$106,107.10	964.61	\$106,107.10
39	Reset existing concrete modular block retaining wall	SF	\$175.00	14	\$2,450.00	0.00	\$0.00	12.00	\$2,100.00
40	6" dia. smooth wall interior, corrugated, perforated polyethylene tubing (PPT) underdrains with filter fabric, stone backfill for subsurface drains, bedding and backfill	LF	\$32.00	2186	\$69,952.00	1,974.00	\$63,168.00	2,049.00	\$65,568.00
41	PVC, SDR-35 Leader drain extension or reconstruction	UN	\$110.00	25	\$2,750.00	23.00	\$2,530.00	23.00	\$2,530.00
42	Connect leader or sump drain to proposed 6" dia. PPT underdrain including fittings, cleanout and brass cap	UN	\$110.00	29	\$3,190.00	23.00	\$2,530.00	23.00	\$2,530.00
43	Subbase outlet drain	LF	\$0.01	143	\$1.43	0.00	\$0.00	0.00	\$0.00
44	4" dia. Perforated polyethylene tubing (PPT) pipe bedding drains	LF	\$20.00	73	\$1,460.00	70.00	\$1,400.00	70.00	\$1,400.00
45	12" dia. reinforced concrete pipe (RCP), Class V storm sewer with flexible watertight gaskets	LF	\$95.00	66	\$6,270.00	48.00	\$4,560.00	64.00	\$6,080.00
46	15" dia. reinforced concrete pipe (RCP), Class V storm sewer with flexible watertight gaskets	LF	\$90.00	670	\$60,300.00	658.00	\$59,220.00	658.00	\$59,220.00
47	18" dia. reinforced concrete pipe (RCP), Class V storm sewer with flexible watertight gaskets	LF	\$140.00	41	\$5,740.00	37.00	\$5,180.00	37.00	\$5,180.00
48	Dense graded aggregate for pipe trench	CY	\$0.01	2918	\$29.18	481.91	\$4.82	481.91	\$4.82
49	Manhole, 4' dia., storm sewer	UN	\$6,000.00	1	\$6,000.00	1.00	\$6,000.00	1.00	\$6,000.00
50	Inlet type B, 6" head	UN	\$4,300.00	3	\$12,900.00	3.00	\$12,900.00	3.00	\$12,900.00
51	Inlet type B, 8" head	UN	\$4,300.00	4	\$17,200.00	4.00	\$17,200.00	4.00	\$17,200.00
52	Inlet type D, 8" head	UN	\$3,500.00	1	\$3,500.00	1.00	\$3,500.00	1.00	\$3,500.00
53	Inlet type B1, 8" head	UN	\$500.00	1	\$500.00	1.00	\$500.00	1.00	\$500.00
54	Handhole with casting (Minimum unit price bid \$200.00/UN)	UN	\$3,000.00	3	\$9,000.00	3.00	\$9,000.00	3.00	\$9,000.00
55	Reset existing casting	UN	\$650.00	98	\$63,700.00	93.00	\$60,450.00	93.00	\$60,450.00
56	Reconstruct inlet, type B, 8" head	UN	\$1,700.00	14	\$23,800.00	14.00	\$23,800.00	14.00	\$23,800.00
57	Set manhole casting	UN	\$150.00	1	\$150.00	1.00	\$150.00	1.00	\$150.00
58	Manhole cover	UN	\$550.00	1	\$550.00	1.00	\$550.00	1.00	\$550.00
59	Bicycle safe grate	UN	\$375.00	26	\$9,750.00	22.00	\$8,250.00	22.00	\$8,250.00
60	Curb piece type N-ECO	UN	\$320.00	52	\$16,640.00	48.00	\$15,360.00	48.00	\$15,360.00
61	Slope protection, excelsior curlex II matting or approved equal, including topsoil, fertilizer, and seed	SY	\$30.00	50	\$1,500.00	36.00	\$1,080.00	36.00	\$1,080.00
62	Hot mix asphalt sidewalks, 6" thick	SY	\$70.00	133	\$9,310.00	124.00	\$8,680.00	124.00	\$8,680.00
63	Concrete sidewalks, 4" thick	SF	\$7.50	15024	\$112,680.00	16,032.00	\$120,240.00	16,032.00	\$120,240.00
64	Concrete sidewalks, 4" thick (Hickory Lane)	SF	\$7.50	4120	\$30,900.00	7,680.28	\$57,602.10	7,680.28	\$57,602.10
65	Concrete driveways, reinforced, 6" thick	SF	\$8.00	10290	\$82,320.00	10,071.09	\$80,568.72	10,243.09	\$81,944.72

**CLOSEOUT CHANGE ORDER AND  
FINAL PAYMENT ESTIMATE NO. 8**

PROJECT NO. PNO-00656.02  
PROJECT NAME: 2022 Road Improvement Program  
OWNER: Township of North Brunswick

Period Included: 06/03/2023 - 10/25/2023  
Date Submitted: October 30, 2023  
Contractor: Lucas Brothers, Inc.

ITEM	DESCRIPTION	UNIT	WORK COMPLETED							
			UNIT PRICE		ORIGINAL BID	TOTAL	PREVIOUS ESTIMATE		CURRENT ESTIMATE	
			(Dollars	Cents)	Quantity	(Dollar Cents)	Quantity	Extension	Quantity	Extension
66	Hot mix asphalt driveway, 2" thick	SY	\$55.00		489	\$26,895.00	386.00	\$21,230.00	431.53	\$23,734.15
67	Hot mix asphalt driveway, 6" thick, commercial	SY	\$100.00		42	\$4,200.00	49.00	\$4,900.00	49.00	\$4,900.00
68	Aggregate driveway, 4" thick	SY	\$50.00		9	\$450.00	0.00	\$0.00	0.00	\$0.00
69	Driveway restoration, pavers	SF	\$10.00		1329	\$13,290.00	1,320.00	\$13,200.00	1,320.00	\$13,200.00
70	Detectable warning surface	SY	\$330.00		55	\$18,150.00	43.00	\$14,190.00	43.00	\$14,190.00
71	8" x 16" concrete vertical curb	LF	\$27.50		700	\$19,250.00	614.50	\$16,898.75	614.50	\$16,898.75
72	8" x 18" concrete vertical curb	LF	\$27.50		4445	\$122,237.50	4,235.00	\$116,462.50	4,235.00	\$116,462.50
73	Concrete curb and gutter	LF	\$37.50		481	\$18,037.50	495.00	\$18,562.50	495.00	\$18,562.50
74	Cleaning and sealing existing joints in concrete curb and gutter	LF	\$39.00		344	\$13,416.00	285.00	\$11,115.00	285.00	\$11,115.00
75	Reset granite block curb	LF	\$27.50		49	\$1,347.50	16.00	\$440.00	16.00	\$440.00
76	Granite block curb	LF	\$27.50		1893	\$52,057.50	864.50	\$23,773.75	1,253.60	\$34,474.00
77	Granite block curb (Hickory Lane)	LF	\$27.50		2419	\$66,522.50	2,086.00	\$57,365.00	2,086.00	\$57,365.00
78	Paint concrete curbing	LF	\$1.00		21	\$21.00	0.00	\$0.00	0.00	\$0.00
79	Traffic stripes, long-life, "thermoplastic", 4" wide, with glass beads	LF	\$0.85		20318	\$17,270.30	22,100.50	\$18,785.43	24,058.00	\$20,449.30
80	Traffic stripes, long-life, "thermoplastic", 8" wide, with glass beads	LF	\$1.75		66	\$115.50	310.00	\$542.50	1,724.00	\$3,017.00
81	Traffic stripes, long-life, "thermoplastic", 24" wide, with glass beads	LF	\$5.20		456	\$2,371.20	401.00	\$2,085.20	1,388.00	\$7,217.60
82	Traffic markings, "thermoplastic"	SF	\$8.00		2880	\$23,040.00	2,796.00	\$22,368.00	2,796.00	\$22,368.00
83	Signs	SF	\$45.00		201	\$9,045.00	0.00	\$0.00	160.90	\$7,240.50
84	Roadway trench repair	SY	\$0.01		1631	\$16.31	1,217.47	\$12.17	1,217.47	\$12.17
85	Temporary trench repair	SY	\$0.01		2113	\$21.13	96.38	\$0.96	96.38	\$0.96
86	Impervious trench stops	UN	\$0.01		7	\$0.07	0.00	\$0.00	0.00	\$0.00
87	Remove existing water distribution piping from municipal roadway	LF	\$0.01		1194	\$11.94	0.00	\$0.00	0.00	\$0.00
88	Furnish and install 8" dia. cement lined DIP Class 52 water main along municipal roadway	LF	\$99.00		1891	\$187,209.00	1,816.00	\$179,784.00	1,816.00	\$179,784.00
89	Furnish and install 8" dia. cement lined DIP Class 52 water main along municipal roadway with M.J. type joints	LF	\$200.00		22	\$4,400.00	0.00	\$0.00	0.00	\$0.00
90	Furnish and install 10" dia. cement lined DIP Class 52 water main along municipal roadway	LF	\$240.00		11	\$2,640.00	2.00	\$480.00	2.00	\$480.00
91	Furnish and install 12" dia. cement lined DIP Class 52 water main along municipal roadway	LF	\$145.00		350	\$50,750.00	311.50	\$45,167.50	311.50	\$45,167.50
92	Furnish and install 20" dia. cement lined DIP Class 52 water main along municipal roadway	LF	\$275.00		77	\$21,175.00	0.00	\$0.00	0.00	\$0.00
93	Furnish and install 10" dia. hdpe dr9 water main by trenchless installation	LF	\$965.00		116	\$111,940.00	0.00	\$0.00	0.00	\$0.00
94	Furnish and install 1" water service corporation stop, curb boxes, curb stop, adapters, fittings, pavement removal, excavation, backfill & restoration	UN	\$2,600.00		4	\$10,400.00	8.00	\$20,800.00	8.00	\$20,800.00
95	Furnish and install 1" K copper pipe water service and connection using open cut method to proposed water main	LF	\$35.00		118	\$4,130.00	107.00	\$3,745.00	107.00	\$3,745.00



**CLOSEOUT CHANGE ORDER AND  
FINAL PAYMENT ESTIMATE NO. 8**

PROJECT NO. PNO-00656.02  
PROJECT NAME: 2022 Road Improvement Program  
OWNER: Township of North Brunswick

Period Included: 06/03/2023 - 10/25/2023  
Date Submitted: October 30, 2023  
Contractor: Lucas Brothers, Inc.

ITEM	DESCRIPTION	UNIT	WORK COMPLETED							
			UNIT PRICE		ORIGINAL BID	TOTAL	PREVIOUS ESTIMATE		CURRENT ESTIMATE	
			(Dollars	Cents)	Quantity	(Dollar Cents)	Quantity	Extension	Quantity	Extension
96	Furnish and install fire hydrant assembly along municipal roadway	UN	\$11,000.00		5	\$55,000.00	5.00	\$55,000.00	5.00	\$55,000.00
97	Furnish and install 8" buried M.J. gate valve and valve box within a proposed water main along municipal roadway	UN	\$6,600.00		13	\$85,800.00	13.00	\$85,800.00	13.00	\$85,800.00
98	Furnish and install 12" buried M.J. gate valve and valve box within a proposed water main along municipal roadway	UN	\$8,900.00		7	\$62,300.00	7.00	\$62,300.00	7.00	\$62,300.00
99	Furnish and install 20" buried M.J. butterfly valve and valve box within a proposed water main along municipal roadway	UN	\$11,700.00		2	\$23,400.00	0.00	\$0.00	0.00	\$0.00
100	Furnish and install 8" buried insertion valve and valve box within an existing water main	UN	\$0.01		1	\$0.01	2.00	\$0.02	2.00	\$0.02
101	Furnish and install 12" buried insertion valve and valve box within an existing water main	UN	\$0.01		1	\$0.01	0.00	\$0.00	0.00	\$0.00
102	Furnish and install water main utility crossings in accordance with the details	UN	\$0.01		3	\$0.03	0.00	\$0.00	0.00	\$0.00
103	Furnish and install inline connection between proposed and existing water mains	UN	\$2,300.00		8	\$18,400.00	8.00	\$18,400.00	8.00	\$18,400.00
104	Reset water valve box to grade	UN	\$70.00		57	\$3,990.00	86.00	\$6,020.00	86.00	\$6,020.00
105	4' Precast concrete sanitary sewer manhole, 2' to 4' deep	UN	\$22,500.00		1	\$22,500.00	1.00	\$22,500.00	1.00	\$22,500.00
106	4' Precast concrete sanitary sewer manhole, 4' to 6' deep	UN	\$22,500.00		1	\$22,500.00	1.00	\$22,500.00	1.00	\$22,500.00
107	4' Precast concrete sanitary sewer manhole, 6' to 8' deep	UN	\$22,500.00		1	\$22,500.00	1.00	\$22,500.00	1.00	\$22,500.00
108	8" C900 DR21 gravity sanitary sewer, 2' to 4' deep	LF	\$90.00		249	\$22,410.00	249.00	\$22,410.00	249.00	\$22,410.00
109	8" C900 DR21 gravity sanitary sewer, 4' to 6' deep	LF	\$100.00		179	\$17,900.00	146.00	\$14,600.00	146.00	\$14,600.00
110	8" PVC SDR-35 gravity sanitary sewer, 2' to 4' deep	LF	\$150.00		6	\$900.00	0.00	\$0.00	0.00	\$0.00
111	8" PVC SDR-35 gravity sanitary sewer, 4' to 6' deep	LF	\$175.00		6	\$1,050.00	0.00	\$0.00	0.00	\$0.00
112	8" PVC SDR-35 gravity sanitary sewer, 6' to 8' deep	LF	\$200.00		6	\$1,200.00	10.00	\$2,000.00	10.00	\$2,000.00
113	8"x 4" C900 DR21 wye	UN	\$750.00		1	\$750.00	1.00	\$750.00	1.00	\$750.00
114	4" dia. PVC SDR-35 cleanouts	UN	\$55.00		1	\$55.00	2.00	\$110.00	2.00	\$110.00
115	4" PVC SDR-35 sanitary sewer lateral	LF	\$200.00		13	\$2,600.00	14.00	\$2,800.00	14.00	\$2,800.00
116	Connect to existing sanitary sewer main	UN	\$800.00		3	\$2,400.00	3.00	\$2,400.00	3.00	\$2,400.00
117	Furnish and install temporary by-pass potable water distribution piping on Hidden Lake Drive	LS	\$0.01		1	\$0.01	0.00	\$0.00	0.00	\$0.00
118	Raise and adjust sanitary sewer cleanout	UN	\$100.00		16	\$1,600.00	0.00	\$0.00	0.00	\$0.00
119	Relocate existing sanitary sewer lateral	UN	\$400.00		8	\$3,200.00	0.00	\$0.00	0.00	\$0.00
120	Relocate existing sanitary sewer cleanout	UN	\$100.00		8	\$800.00	0.00	\$0.00	0.00	\$0.00
121	Miscellaneous concrete, Class B	CY	\$1.00		26	\$26.00	0.00	\$0.00	0.00	\$0.00
122	Speed hump	UN	\$7,820.00		1	\$7,820.00	1.00	\$7,820.00	1.00	\$7,820.00
123	Remove additional trees over 4" up to and including 8" caliper	UN	\$0.01		14	\$0.14	0.00	\$0.00	0.00	\$0.00
124	Remove additional trees over 8" up to and including 12" caliper	UN	\$0.01		16	\$0.16	0.00	\$0.00	0.00	\$0.00
125	Remove additional trees over 12" up to and including 16" caliper	UN	\$0.01		12	\$0.12	6.00	\$0.06	6.00	\$0.06
126	Remove additional trees over 16" caliper	UN	\$0.01		11	\$0.11	0.00	\$0.00	0.00	\$0.00
127	Topsoiling, 4" thick	SY	\$5.75		5653	\$32,504.75	5,567.00	\$32,010.25	5,567.00	\$32,010.25
128	Fertilizing	SY	\$1.00		5653	\$5,653.00	5,567.00	\$5,567.00	5,567.00	\$5,567.00

**CLOSEOUT CHANGE ORDER AND  
FINAL PAYMENT ESTIMATE NO. 8**

PROJECT NO. PNO-00656.02  
PROJECT NAME: 2022 Road Improvement Program  
OWNER: Township of North Brunswick

Period Included: 06/03/2023 - 10/25/2023  
Date Submitted: October 30, 2023  
Contractor: Lucas Brothers, Inc.

ITEM	DESCRIPTION	UNIT	WORK COMPLETED						
			UNIT PRICE	ORIGINAL BID	TOTAL	PREVIOUS ESTIMATE		CURRENT ESTIMATE	
			(Dollars Cents)	Quantity	(Dollar Cents)	Quantity	Extension	Quantity	Extension
129	Sodding	SY	\$8.00	5653	\$45,224.00	5,567.00	\$44,536.00	5,567.00	\$44,536.00
130	Replacement trees	UN	\$0.01	25	\$0.25	0.00	\$0.00	0.00	\$0.00
131	Replacement shrubs	UN	\$0.01	11	\$0.11	0.00	\$0.00	0.00	\$0.00
SUP-1	Furnishing and installation of 24" diameter steel casing, appurtenances and all associated work as required by Enbridge Gas Pipelines for the installation of the water main crossing over the two natural gas pipelines crossing Hidden Lake Drive at Sta 17+00 in lieu of micro-tunnelling and installation of 10" HDPE water main crossing under the gas lines.	LS	\$90,403.61			1.00	\$90,403.61	1.00	\$90,403.61
SUP-2	Replacement of concrete driveway and storm drainage structure at 747 Cedar Avenue as per the Township request	LS	\$19,000.00					1.00	\$19,000.00
SUP-3	Replacement of existing deteriorated 24" and 30" CMP storm pipe located between Lots 60 and 61 in Block 262 including manhole and inlet reconstruction as per Township request.	LS	\$98,300.00					1.00	\$98,300.00
			<b>SUBTOTAL</b>		<b>\$3,690,689.97</b>		<b>\$3,070,969.88</b>		<b>\$3,281,500.95</b>

The undersigned CONTRACTOR certifies that 1) all previous progress payments received from Owner on account of Work done under the Contract referred to above have been applied to discharge in full all obligations of CONTRACTOR incurred in connection with Work covered by Prior Payment Estimates; and 2) title to all materials and equipment incorporated in said Work or otherwise listed in or covered by this Payment Estimate will pass to OWNER at time of payment free and clear of all liens, claims, security interests and encumbrances (except such as covered by Bond acceptable to OWNER).

CURRENT TO DATE	\$3,281,500.95
LESS RETAINAGE @ 0%	\$0.00
BALANCE	\$3,281,500.95
LESS PREVIOUS PAYMENTS	\$3,009,550.48
<b>BALANCE DUE</b>	<b>\$271,950.47</b>

PREPARED BY:



Lucas Brothers, Inc.

**Gary Roth - Sr. Project Manager** 10/31/2023



Township Engineer Representative

PROJECT NO.: PNO - 00656.02  
 PROJECT: 2022 Road Improvement Program  
 CONTRACTOR:

**PAYMENT ESTIMATE NO. 8**

**LUMP SUM COST BREAKDOWN FOR ITEM 12 - ALLOWANCE FOR WORK NOT SPECIFIED \$50,000.00**

Item	Description	Total Amount	Current Completion	Extended Total Price
12.1	Replacement of concrete pavement edge and replacement brick pavers on Commerce Boulevard as requested by the Township	\$ 26,000.00	100.00%	\$26,000.00
12.02	Roadway repair on Finnegans Lane including excavation and disposal of excavated materials, installation of HMA Base Course and the installation of HMA Surface course.	\$ 16,000.00	100.00%	\$16,000.00
	Allocated Subtotal	\$ 42,000.00		
	Not Allocated	\$ 8,000.00		
	Allowance Amount	<b>\$50,000.00</b>		
<b>Total Amount To Date for Item 12</b>				<b>\$42,000.00</b>

PROJECT NO. PNO-00656.02  
 PROJECT NAME: 2022 Road Improvement Program  
 CONTRACTOR: Lucas Brothers, Inc

Item No.6- Police Traffic Directors

Contract Amount: \$ 150,000.00

Date	Quantity (Hours)	Rate	Amount	Invoice #	
10/3/2022	63.5	\$82.05	\$5,210.20	2022494	PAY ESTIMATE NO. 2
10/3/2022	16.5	\$82.05	\$1,353.83	2022495	
10/4/2022	8.5	\$82.05	\$697.43	2022-273	
10/4/2022	7	\$82.05	\$574.35	2022-270	
10/24/2022	10.5	\$89.63	\$941.12	2022-294	
11/4/2022	8.5	\$82.05	\$697.43	2022-304	PAY ESTIMATE NO. 3
1/30/2023	54	\$82.05	\$4,430.72	2022710	PAY ESTIMATE NO. 4
2/7/2023	91	\$82.05	\$7,466.60	2022722	
2/13/2023	82	\$82.05	\$6,728.14	2022732	
2/21/2023	30	\$82.05	\$2,461.50	2022746	PAY ESTIMATE NO. 5
2/27/2023	84	\$97.20	\$8,164.80	2022756	
3/7/2023	90	\$97.20	\$8,748.00	2022765	
3/14/2023	112	\$97.20	\$10,886.40	2022774	
4/19/2023	25.5	\$97.20	\$2,478.60	2022788	
4/14/2023	8.5	\$97.20	\$826.20	2023-024	PAY ESTIMATE NO. 6
4/17/2023	16	\$97.20	\$1,555.20	2022837	
5/23/2023	109.5	\$97.20	\$10,643.40	2022896	PAY ESTIMATE NO. 7
5/15/2023	69.5	\$97.20	\$6,755.40	2022884	
5/31/2023	50	\$97.20	\$4,860.00	2022908	
6/6/2023	14	\$97.20	\$1,360.80	2022917	PAY ESTIMATE NO. 8
6/23/2023	25.5	\$97.20	\$2,478.60	2022938	
6/15/2023	25	\$97.20	\$2,430.00	2022928	
<b>TOTAL TO DATE:</b>			<b>\$91,748.72</b>	<b>0.61165813</b>	

PROJECT NO. PNO-00656.02  
 PROJECT NAME: 2022 Road Improvement Program  
 OWNER: Township of North Brunswick

Contract amount = **\$80,000.00**

**Item # 10 - Asphalt Price Adjustment**  
 Bid = May 2022  
 Base Index = \$639.00 - April 2022

**NJDOT Asphalt Index**

	Item / Description	Unit	Factor	% Asphalt	Bid Time	Current	Difference	Add'l / Ton	Current Estimate	Extension
Sep - Mid 2022: Index = \$732.00	36. HOT MIX ASPHALT 9.5M64 SURFACE AND LEVELER COURSE	TON	1.00	4.2%	639.00	732.00	93.00	\$3.91	1229.29 TON	\$4,801.61
	37. HOT MIX ASPHALT 9.5M64 SURFACE AND LEVELER COURSE (Hickory Lane)	TON	1.00	4.2%	639.00	732.00	93.00	\$3.91	0.00 TON	\$0.00
	38. HOT MIX ASPHALT 19M64 BASE COURSE	TON	1.00	4.1%	639.00	732.00	93.00	\$3.81	771.02 TON	\$2,939.90
<b>Subtotal</b>										<b>\$7,741.51</b>
October 2022: Index = \$678	36. HOT MIX ASPHALT 9.5M64 SURFACE AND LEVELER COURSE	TON	1.00	4.2%	639.00	678.00	39.00	\$1.64	0.00 TON	\$0.00
	37. HOT MIX ASPHALT 9.5M64 SURFACE AND LEVELER COURSE (Hickory Lane)	TON	1.00	4.2%	639.00	678.00	39.00	\$1.64	0.00 TON	\$0.00
	38. HOT MIX ASPHALT 19M64 BASE COURSE	TON	1.00	4.1%	639.00	678.00	39.00	\$1.60	129.64 TON	\$207.29
<b>Subtotal</b>										<b>\$207.29</b>
October 2022- Mid: Index = \$645	36. HOT MIX ASPHALT 9.5M64 SURFACE AND LEVELER COURSE	TON	1.00	4.2%	639.00	645.00	6.00	\$0.25	1297.49 TON	\$326.97
	37. HOT MIX ASPHALT 9.5M64 SURFACE AND LEVELER COURSE (Hickory Lane)	TON	1.00	4.2%	639.00	645.00	6.00	\$0.25	0.00 TON	\$0.00
	38. HOT MIX ASPHALT 19M64 BASE COURSE	TON	1.00	4.1%	639.00	645.00	6.00	\$0.25	15.00 TON	\$3.69
<b>Subtotal</b>										<b>\$330.66</b>
November 2022: Index = \$597	36. HOT MIX ASPHALT 9.5M64 SURFACE AND LEVELER COURSE	TON	1.00	4.2%	639.00	597.00	-42.00	-\$1.76	0.00 TON	\$0.00
	37. HOT MIX ASPHALT 9.5M64 SURFACE AND LEVELER COURSE (Hickory Lane)	TON	1.00	4.2%	639.00	597.00	-42.00	-\$1.76	0.00 TON	\$0.00
	38. HOT MIX ASPHALT 19M64 BASE COURSE	TON	1.00	4.1%	639.00	597.00	-42.00	-\$1.72	0.00 TON	\$0.00
<b>Subtotal</b>										<b>\$0.00</b>

PROJECT NO. PNO-00656.02  
 PROJECT NAME: 2022 Road Improvement Program  
 OWNER: Township of North Brunswick

Contract amount = **\$80,000.00**

**Item # 10 - Asphalt Price Adjustment**

Bid = May 2022

Base Index = \$639.00 - April 2022

**NJDOT Asphalt Index**

	Item / Description	Unit	Factor	% Asphalt	Bid Time	Current	Difference	Add'l / Ton	Current Estimate	Extension
November-Mid 2022: Index = \$577	36. HOT MIX ASPHALT 9.5M64 SURFACE AND LEVELER COURSE	TON	1.00	4.2%	639.00	577.00	-62.00	-\$2.60	313.27 TON	-\$815.76
	37. HOT MIX ASPHALT 9.5M64 SURFACE AND LEVELER COURSE (Hickory Lane)	TON	1.00	4.2%	639.00	577.00	-62.00	-\$2.60	919.73 TON	-\$2,394.98
	38. HOT MIX ASPHALT 19M64 BASE COURSE	TON	1.00	4.1%	639.00	577.00	-62.00	-\$2.54	0.00 TON	\$0.00
<b>Subtotal</b>										<b>-\$3,210.74</b>
April - 2023: Index = \$553	36. HOT MIX ASPHALT 9.5M64 SURFACE AND LEVELER COURSE	TON	1.00	4.2%	639.00	553.00	-86.00	-\$3.61	720.45 TON	-\$2,602.27
	37. HOT MIX ASPHALT 9.5M64 SURFACE AND LEVELER COURSE (Hickory Lane)	TON	1.00	4.2%	639.00	553.00	-86.00	-\$3.61	0.00 TON	\$0.00
	38. HOT MIX ASPHALT 19M64 BASE COURSE	TON	1.00	4.1%	639.00	553.00	-86.00	-\$3.53	0.00 TON	\$0.00
<b>Subtotal</b>										<b>-\$2,602.27</b>
May - 2023: Index = \$559	36. HOT MIX ASPHALT 9.5M64 SURFACE AND LEVELER COURSE	TON	1.00	4.2%	639.00	559.00	-80.00	-\$3.36	673.55 TON	-\$2,263.13
	37. HOT MIX ASPHALT 9.5M64 SURFACE AND LEVELER COURSE (Hickory Lane)	TON	1.00	4.2%	639.00	559.00	-80.00	-\$3.36	0.00 TON	\$0.00
	38. HOT MIX ASPHALT 19M64 BASE COURSE	TON	1.00	4.1%	639.00	559.00	-80.00	-\$3.28	0.00 TON	\$0.00
<b>Subtotal</b>										<b>-\$2,263.13</b>
May - Mid - 2023: Index = \$563	36. HOT MIX ASPHALT 9.5M64 SURFACE AND LEVELER COURSE	TON	1.00	4.2%	639.00	563.00	-76.00	-\$3.19	2775.86 TON	-\$8,860.55
	37. HOT MIX ASPHALT 9.5M64 SURFACE AND LEVELER COURSE (Hickory Lane)	TON	1.00	4.2%	639.00	563.00	-76.00	-\$3.19	0.00 TON	\$0.00
	38. HOT MIX ASPHALT 19M64 BASE COURSE	TON	1.00	4.1%	639.00	563.00	-76.00	-\$3.12	48.95 TON	-\$152.53
<b>Subtotal</b>										<b>-\$9,013.08</b>

Total To Date =	-\$8,809.76
%-age To Date =	-11.012200%
Use =	-0.1101220
Adjustment =	-\$8,809.76

PROJECT NO. PNO-00656.02  
 PROJECT NAME: 2022 Road Improvement Program  
 OWNER: Township of North Brunswick

Contract Amount: \$ 45,000.00

Bid = May 2022  
 Base Index = \$4.61 - April 2022

Base Fuel Price Index: \$4.61  
 Fuel Price Adjustment Ineligible Range (5%) \$4.38 through \$4.84

Work Item	Fuel Usage Factor per NJDOT 160.03.01			Bid Quantity	Equivalent Quantity	Eligible for Adjustment?	Month of Installation: <b>Sep-Mid 22</b>			
	Per Unit	Gal	Min Qty for 500 GAL				Index: <b>\$4.30</b>	Quantity This Month	Extension	Use
							Eligible for Adjustment? <b>YES</b>			
22. EXCAVATION UNCLASSIFIED	CY	0.5	1000	2,163	2,163 CY	YES	682.00	(\$105.71)	(\$105.71)	
29. DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK	CY	1	500	1,235	1,235 CY	YES	0.00	\$0.00	\$0.00	
30. HMA MILLING, 3" AND VARIABLE DEPTH	SY	0.25	2000	44,977	44,977 SY	YES	9,761.00	(\$756.48)	(\$756.48)	
31. HMA MILLING, 3" AND VARIABLE DEPTH (HICKORY LANE)	SY	0.25	2000	5,667	5,667 SY	YES	0.00	\$0.00	\$0.00	
36. HOT MIX ASPHALT 12.5H76 SURFACE COURSE	TON	2.5	200	6,863	6,863 TON	YES	1,229.29	(\$852.70)	(\$852.70)	
37. HOT MIX ASPHALT 12.5H76 SURFACE COURSE (HICKORY LANE)	TON	2.5	200	1,150	1,150 TON	YES	0.00	\$0.00	\$0.00	
38. HOT MIX ASPHALT 19M64 - BASE COURSE	TON	2.5	200	2,564	2,564 TON	YES	771.02	(\$597.54)	(\$597.54)	
<b>SUBTOTAL:</b>									<b>(\$2,412.43)</b>	

Work Item	Fuel Usage Factor per NJDOT 160.03.01			Bid Quantity	Equivalent Quantity	Eligible for Adjustment?	Month of Installation: <b>Oct - 22</b>			
	Per Unit	Gal	Min Qty for 500 GAL				Index: <b>\$4.11</b>	Quantity This Month	Extension	Use
							Eligible for Adjustment? <b>YES</b>			
22. EXCAVATION UNCLASSIFIED	CY	0.5	1000	2,163	2,163 CY	YES	0.00	\$0.00	\$0.00	
29. DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK	CY	1	500	1,235	1,235 CY	YES	0.00	\$0.00	\$0.00	
30. HMA MILLING, 3" AND VARIABLE DEPTH	SY	0.25	2000	44,977	44,977 SY	YES	0.00	\$0.00	\$0.00	
31. HMA MILLING, 3" AND VARIABLE DEPTH (HICKORY LANE)	SY	0.25	2000	5,667	5,667 SY	YES	0.00	\$0.00	\$0.00	
36. HOT MIX ASPHALT 12.5H76 SURFACE COURSE	TON	2.5	200	6,863	6,863 TON	YES	0.00	\$0.00	\$0.00	
37. HOT MIX ASPHALT 12.5H76 SURFACE COURSE (HICKORY LANE)	TON	2.5	200	1,150	1,150 TON	YES	0.00	\$0.00	\$0.00	
38. HOT MIX ASPHALT 19M64 - BASE COURSE	TON	2.5	200	2,564	2,564 TON	YES	58.68	(\$73.35)	(\$73.35)	
<b>SUBTOTAL:</b>									<b>(\$73.35)</b>	

Work Item	Fuel Usage Factor per NJDOT 160.03.01			Bid Quantity	Equivalent Quantity	Eligible for Adjustment?	Month of Installation: <b>Oct - Mid 22</b>			
	Per Unit	Gal	Min Qty for 500 GAL				Index: <b>\$4.47</b>	Quantity This Month	Extension	Use
							Eligible for Adjustment? <b>NO</b>			
22. EXCAVATION UNCLASSIFIED	CY	0.5	1000	2,163	2,163 CY	YES	0.00	\$0.00	\$0.00	
29. DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK	CY	1	500	1,235	1,235 CY	YES	0.00	\$0.00	\$0.00	
30. HMA MILLING, 3" AND VARIABLE DEPTH	SY	0.25	2000	44,977	44,977 SY	YES	0.00	\$0.00	\$0.00	
31. HMA MILLING, 3" AND VARIABLE DEPTH (HICKORY LANE)	SY	0.25	2000	5,667	5,667 SY	YES	0.00	\$0.00	\$0.00	
36. HOT MIX ASPHALT 12.5H76 SURFACE COURSE	TON	2.5	200	6,863	6,863 TON	YES	0.00	\$0.00	\$0.00	
37. HOT MIX ASPHALT 12.5H76 SURFACE COURSE (HICKORY LANE)	TON	2.5	200	1,150	1,150 TON	YES	0.00	\$0.00	\$0.00	
38. HOT MIX ASPHALT 19M64 - BASE COURSE	TON	2.5	200	2,564	2,564 TON	YES	0.00	\$0.00	\$0.00	
<b>SUBTOTAL:</b>									<b>\$0.00</b>	

Work Item	Fuel Usage Factor per NJDOT 160.03.01			Bid Quantity	Equivalent Quantity	Eligible for Adjustment?	Month of Installation: <b>Nov - 22</b>			
	Per Unit	Gal	Min Qty for 500 GAL				Index: <b>\$4.78</b>	Quantity This Month	Extension	Use
							Eligible for Adjustment? <b>NO</b>			
22. EXCAVATION UNCLASSIFIED	CY	0.5	1000	2,163	2,163 CY	YES	0.00	\$0.00	\$0.00	
29. DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK	CY	1	500	1,235	1,235 CY	YES	0.00	\$0.00	\$0.00	
30. HMA MILLING, 3" AND VARIABLE DEPTH	SY	0.25	2000	44,977	44,977 SY	YES	0.00	\$0.00	\$0.00	
31. HMA MILLING, 3" AND VARIABLE DEPTH (HICKORY LANE)	SY	0.25	2000	5,667	5,667 SY	YES	0.00	\$0.00	\$0.00	
36. HOT MIX ASPHALT 12.5H76 SURFACE COURSE	TON	2.5	200	6,863	6,863 TON	YES	0.00	\$0.00	\$0.00	
37. HOT MIX ASPHALT 12.5H76 SURFACE COURSE (HICKORY LANE)	TON	2.5	200	1,150	1,150 TON	YES	0.00	\$0.00	\$0.00	
38. HOT MIX ASPHALT 19M64 - BASE COURSE	TON	2.5	200	2,564	2,564 TON	YES	0.00	\$0.00	\$0.00	
<b>SUBTOTAL:</b>									<b>\$0.00</b>	

Work Item	Fuel Usage Factor per NJDOT 160.03.01			Bid Quantity	Equivalent Quantity	Eligible for Adjustment?	Month of Installation: <b>Nov - Mid 22</b>			
	Per Unit	Gal	Min Qty for 500 GAL				Index: <b>\$4.94</b>	Quantity This Month	Extension	Use
							Eligible for Adjustment? <b>YES</b>			
22. EXCAVATION UNCLASSIFIED	CY	0.5	1000	2,163	2,163 CY	YES	0.00	\$0.00	\$0.00	
29. DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK	CY	1	500	1,235	1,235 CY	YES	0.00	\$0.00	\$0.00	
30. HMA MILLING, 3" AND VARIABLE DEPTH	SY	0.25	2000	44,977	44,977 SY	YES	3,386.00	\$279.35	\$279.35	
31. HMA MILLING, 3" AND VARIABLE DEPTH (HICKORY LANE)	SY	0.25	2000	5,667	5,667 SY	YES	6,269.00	\$517.19	\$517.19	
36. HOT MIX ASPHALT 12.5H76 SURFACE COURSE	TON	2.5	200	6,863	6,863 TON	YES	313.27	\$258.45	\$258.45	
37. HOT MIX ASPHALT 12.5H76 SURFACE COURSE (HICKORY LANE)	TON	2.5	200	1,150	1,150 TON	YES	919.73	\$758.78	\$758.78	
38. HOT MIX ASPHALT 19M64 - BASE COURSE	TON	2.5	200	2,564	2,564 TON	YES	0.00	\$0.00	\$0.00	
<b>SUBTOTAL:</b>									<b>\$1,813.77</b>	

PROJECT NO. PNO-00656.02  
 PROJECT NAME: 2022 Road Improvement Program  
 OWNER: Township of North Brunswick

Contract Amount: \$ 45,000.00

Bid = May 2022  
 Base Index = \$4.61 - April 2022

Base Fuel Price Index: \$4.61  
 Fuel Price Adjustment Ineligible Range (5%) \$4.38 through \$4.84

Work Item	Fuel Usage Factor per NJDOT 160.03.01			Bid Quantity	Equivalent Quantity	Eligible for Adjustment?	Month of Installation: <b>April - 23</b>					
	Per Unit	Gal	Min Qty for 500 GAL				Quantity This Month	Extension	Use	Index:		
										\$3.68	Eligible for Adjustment? <b>YES</b>	
22. EXCAVATION, UNCLASSIFIED	CY	0.5	1000	2,163	2,163 CY	YES	0.00	\$0.00	\$0.00			
29. DENSE-GRADED AGGRAGATE BASE COURSE, 6" THICK	CY	1	500	1,235	1,235 CY	YES	0.00	\$0.00	\$0.00			
30. HMA MILLING, 3" AND VARIABLE DEPTH	SY	0.25	2000	44,977	44,977 SY	YES	5,800.00	(\$1,348.50)	(\$1,348.50)			
31. HMA MILLING, 3" AND VARIABLE DEPTH (HICKORY LANE)	SY	0.25	2000	5,667	5,667 SY	YES	0.00	\$0.00	\$0.00			
36. HOT MIX ASPHALT 12.5H76 SURFACE COURSE	TON	2.5	200	6,863	6,863 TON	YES	720.45	(\$1,875.05)	(\$1,875.05)			
37. HOT MIX ASPHALT 12.5H76 SURFACE COURSE (HICKORY LANE)	TON	2.5	200	1,150	1,150 TON	YES	0.00	\$0.00	\$0.00			
38. HOT MIX ASPHALT 19M64 - BASE COURSE	TON	2.5	200	2,564	2,564 TON	YES	9.47	(\$22.02)	(\$22.02)			
<b>SUBTOTAL:</b>									<b>(\$3,045.57)</b>			

Work Item	Fuel Usage Factor per NJDOT 160.03.01			Bid Quantity	Equivalent Quantity	Eligible for Adjustment?	Month of Installation: <b>May - 23</b>					
	Per Unit	Gal	Min Qty for 500 GAL				Quantity This Month	Extension	Use	Index:		
										\$3.75	Eligible for Adjustment? <b>YES</b>	
22. EXCAVATION, UNCLASSIFIED	CY	0.5	1000	2,163	2,163 CY	YES	0.00	\$0.00	\$0.00			
29. DENSE-GRADED AGGRAGATE BASE COURSE, 6" THICK	CY	1	500	1,235	1,235 CY	YES	0.00	\$0.00	\$0.00			
30. HMA MILLING, 3" AND VARIABLE DEPTH	SY	0.25	2000	44,977	44,977 SY	YES	17,437.75	(\$3,749.12)	(\$3,749.12)			
31. HMA MILLING, 3" AND VARIABLE DEPTH (HICKORY LANE)	SY	0.25	2000	5,667	5,667 SY	YES	0.00	\$0.00	\$0.00			
36. HOT MIX ASPHALT 12.5H76 SURFACE COURSE	TON	2.5	200	6,863	6,863 TON	YES	673.55	(\$1,448.13)	(\$1,448.13)			
37. HOT MIX ASPHALT 12.5H76 SURFACE COURSE (HICKORY LANE)	TON	2.5	200	1,150	1,150 TON	YES	0.00	\$0.00	\$0.00			
38. HOT MIX ASPHALT 19M64 - BASE COURSE	TON	2.5	200	2,564	2,564 TON	YES	39.48	(\$84.88)	(\$84.88)			
<b>SUBTOTAL:</b>									<b>(\$5,282.14)</b>			

Work Item	Fuel Usage Factor per NJDOT 160.03.01			Bid Quantity	Equivalent Quantity	Eligible for Adjustment?	Month of Installation: <b>May - Mid 23</b>					
	Per Unit	Gal	Min Qty for 500 GAL				Quantity This Month	Extension	Use	Index:		
										\$3.64	Eligible for Adjustment? <b>YES</b>	
22. EXCAVATION, UNCLASSIFIED	CY	0.5	1000	2,163	2,163 CY	YES	0.00	\$0.00	\$0.00			
29. DENSE-GRADED AGGRAGATE BASE COURSE, 6" THICK	CY	1	500	1,235	1,235 CY	YES	0.00	\$0.00	\$0.00			
30. HMA MILLING, 3" AND VARIABLE DEPTH	SY	0.25	2000	44,977	44,977 SY	YES	7,644.04	(\$1,853.88)	(\$1,853.88)			
31. HMA MILLING, 3" AND VARIABLE DEPTH (HICKORY LANE)	SY	0.25	2000	5,667	5,667 SY	YES	0.00	\$0.00	\$0.00			
36. HOT MIX ASPHALT 12.5H76 SURFACE COURSE	TON	2.5	200	6,863	6,863 TON	YES	2,775.86	(\$6,731.46)	(\$6,731.46)			
37. HOT MIX ASPHALT 12.5H76 SURFACE COURSE (HICKORY LANE)	TON	2.5	200	1,150	1,150 TON	YES	0.00	\$0.00	\$0.00			
38. HOT MIX ASPHALT 19M64 - BASE COURSE	TON	2.5	200	2,564	2,564 TON	YES	0.00	\$0.00	\$0.00			
<b>SUBTOTAL:</b>									<b>(\$8,585.15)</b>			

Total To Date =	(\$3,717.58)
%-age To Date =	-8.2612889%
Use =	-0.0826129
Adjustment =	(\$3,717.58)