



**THE STATE OF NEW HAMPSHIRE**  
DEPARTMENT OF TRANSPORTATION



*Victoria F. Sheehan*  
Commissioner

*William Cass, P.E.*  
Assistant Commissioner

His Excellency, Governor Christopher T. Sununu  
and the Honorable Council  
State House  
Concord, New Hampshire 03301

Bureau of Construction  
October 2, 2018

**REQUESTED ACTION**

1. Authorize the Department of Transportation to enter into a contract with Brox Industries, Inc. (Vendor 177569) of Dracut, MA on the basis of a low bid of \$476,806.55 for constructing a two-way left turn lane on NH 125 in Rochester, from the date of Governor and Council approval through September 27, 2019 unless extended by the Department in accordance with the Standard Specifications. 100% Federal Funds.

Funding is available in State Fiscal Year 2019 and is contingent upon the availability and continued appropriation of funds in Fiscal Year 2020 as follows, with the ability to adjust encumbrances through the Budget Office between State Fiscal Years if needed and justified:

Funding is available as follows:	<u>FY 2019</u>	<u>FY 2020</u>
04-96-96-963515-3054 Consolidated Federal Aid		
400-500870 Highway Contract Payments	\$376,806.55	\$100,000.00

2. Further authorize that a contingency in the amount of \$28,608.39 be approved for payment of latent conditions, which may appear during the construction of the project. The contingency requested is 6% of the contract amount.

Funding is available as follows:	<u>FY 2019</u>	<u>FY 2020</u>
04-96-96-963515-3054 Consolidated Federal Aid		
400-500870 Highway Contract Payments		\$28,608.39

**EXPLANATION**

This project is part of the State's Ten Year Transportation Improvement Plan under Highway Safety Improvement Program (HSIP). This project involves constructing a two-way left turn lane (TWLTL) on NH 125 (Gonic Rd) in Rochester, starting approximately 550 feet north of the NH 125/Flagg Rd/Rochester Neck Rd intersection, proceeding ½ mile north, and ending approximately 600 feet north of the NH 125/Gear Rd intersection.

The proposed TWLTL will be constructed utilizing the existing 44-foot pavement width and will entail applying a 2-inch full width pavement overlay (½-inch leveling course and 1½-inch high strength wearing course) and restriping the existing 12-foot travel lanes and 10-foot shoulders to two 11-foot travel lanes, one 12-foot center turn lane, and two 5-foot shoulders. Additional work includes traffic signal upgrades at the NH 125/Rochester Neck Rd/Flagg Rd intersection, 1,800 linear feet of extended centerline striping beyond the northern project limits to eliminate the existing passing zone, pavement matches at all side roads and driveways, and minor drainage work.

There have been approx. 40 crashes within the past 10 years that have occurred within the proposed project limits, including 1 fatal. This project will improve safety for motorists by reducing the number of turning conflicts entering and exiting the commercial properties along this corridor.

The contingency is proposed to be 6% of the contract amount. The project was not surveyed and therefore, items have been quantified based on field observations, as-built plans, and aerial photos. Field adjustments may be required (for paving work, pavement striping, and shoulder work) due to varying field conditions. Additionally, traffic signal upgrades may run into unanticipated costs during the process of replacing the existing equipment.

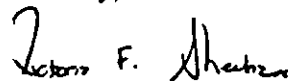
Although the bid costs exceeded the Department's estimate by 12.08%, the low bid of 2 bids received is felt to be reasonable for the work involved. Re-advertising this project would result, in our opinion, in higher prices and prevent the completion of the work in a timely manner. The Department considers it to be in the best interest of the State to accept this bid to accomplish these needed repairs.

The Contractor has been prequalified by this Department. The Contract has been approved by the Attorney General as to form and execution, and the Department has certified that the necessary funds are available and the bid reasonably conforms to the engineer's estimate in accordance with State procedure. Copies of the fully executed contract are on file at the Secretary of State's Office and the Department of Administrative Service's Office, and subsequent to Governor and Council approval will be on file at the Department of Transportation.

This project funding is 90% federal funds with 10% state match. Turnpike toll credit is being utilized for match requirements, effectively using 100% federal funds.

A copy of the Tabulation of Bids received for this project is attached along with the Contract Supplemental Sheet and a map indicating the location of the project.

Sincerely,



Victoria F. Sheehan  
Commissioner

VFS/md

Department Estimate: \$425,409.00  
Contract Amount: \$476,806.55  
Over Estimate: \$ 51,397.55  
Attachments

July 30, 2018

## SUPPLEMENTAL PROJECT INFORMATION SHEET

**DESCRIPTION:** This project involves constructing a two-way left turn lane (TWLTL) on NH 125 (Gonic Rd) in Rochester, starting approximately 550 feet north of the NH 125/Flagg Rd/Rochester Neck Rd intersection, proceeding ½ mile north, and ending approximately 600 feet north of the NH 125/Gear Rd intersection.

The proposed TWLTL will be constructed utilizing the existing 44-foot pavement width and will entail applying a 2-inch full width pavement overlay (½-inch leveling course and 1½-inch high strength wearing course) and restriping the existing 12-foot travel lanes and 10-foot shoulders to two 11-foot travel lanes, one 12-foot center turn lane, and two 5-foot shoulders. Additional work includes traffic signal upgrades at the NH 125/Rochester Neck Rd/Flagg Rd intersection, 1,800 linear feet of extended centerline striping beyond the northern project limits to eliminate the existing passing zone, pavement matches at all side roads and driveways, and minor drainage work.

**FEDERAL FUNDING:** 90% Federal (HSIP), 10% State Turnpike Toll Credits.

**CONTINGENCY:** The contingency is proposed to be 6% of the contract amount. The project was not surveyed and therefore, items have been quantified based on field observations, as-built plans, and aerial photos. Field adjustments may be required (for paving work, pavement striping, and shoulder work) due to varying field conditions. Additionally, traffic signal upgrades may run into unanticipated costs during the process of replacing the existing equipment.

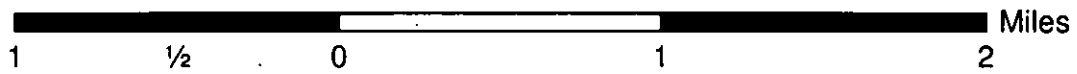
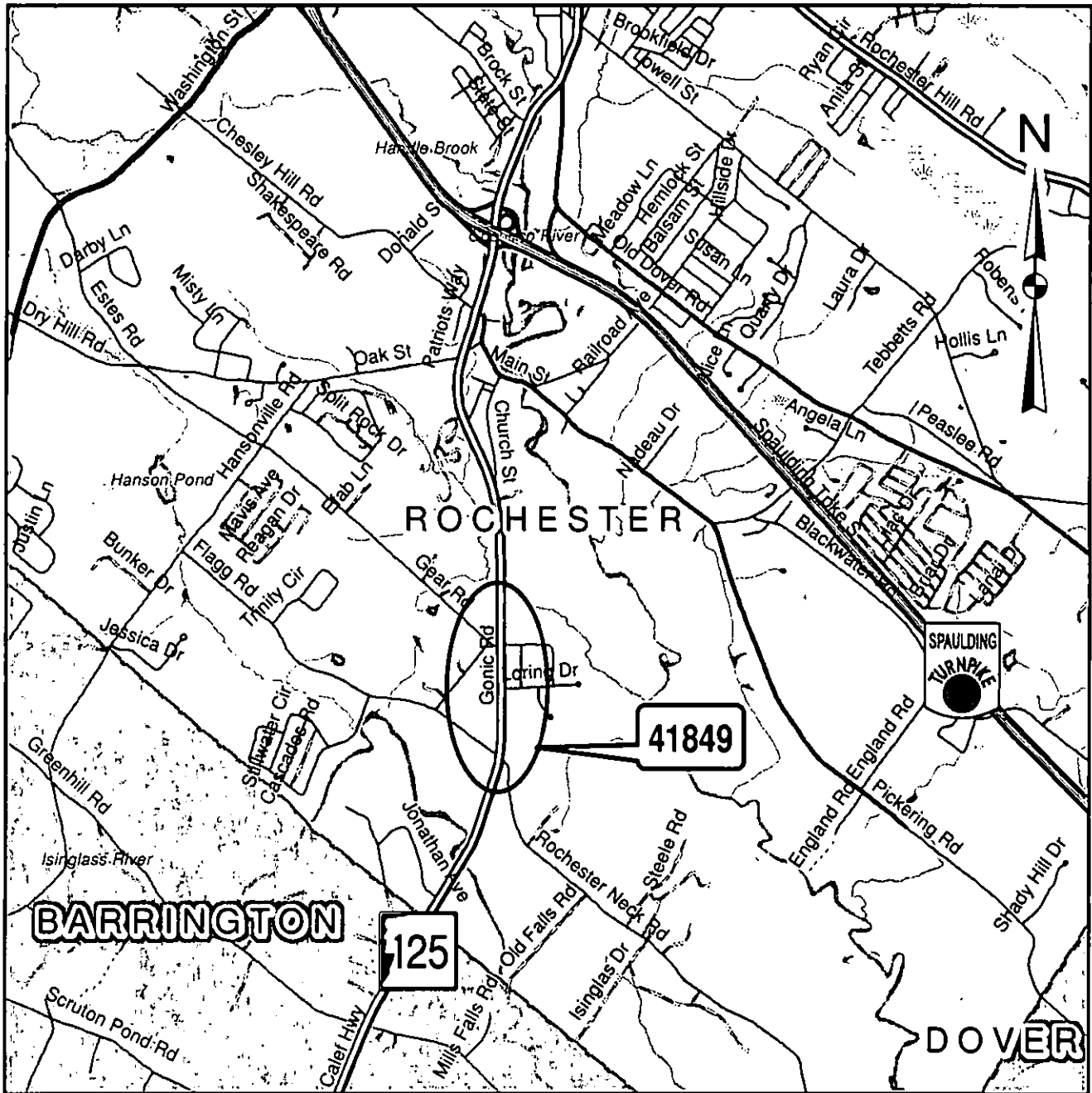
**PROJECT INITIATED:** Highway Safety Improvement Program (HSIP)

**PROJECT EXPLANATION:** A request for a Road Safety Audit was received from the City of Rochester officials and supported by a neighborhood petition. Their request cited safety concerns caused by the high volume of traffic, 50 mph posted speed limits, and the large number of commercial and residential driveways. Their request recommended the addition of a two-way left turn lane. There have been approx. 40 crashes within the past 10 years that have occurred within the proposed project limits, including 1 fatal. This project will improve safety for motorists by reducing the number of turning conflicts entering and exiting the commercial properties along this corridor.

**TRAFFIC IMPLICATIONS:** Construction activities requiring a single lane closure will only be permitted during nighttime hours utilizing a one lane, alternating two-way traffic configuration. Existing traffic patterns will be restored during non-work hours. Any daytime construction activities will be required to maintain two-way traffic flows, using a temporary lane shift and/or shoulder closure and will be limited to off peak hours. Portable message signs will be installed for advance notice of the construction activities and an operational speed limit reduction will be employed during work hours, only, using trailer mounted speed limit signs with driver feedback displays.

**COMPLETION DATE:** September 27, 2019

# ROCHESTER - NH ROUTE 125



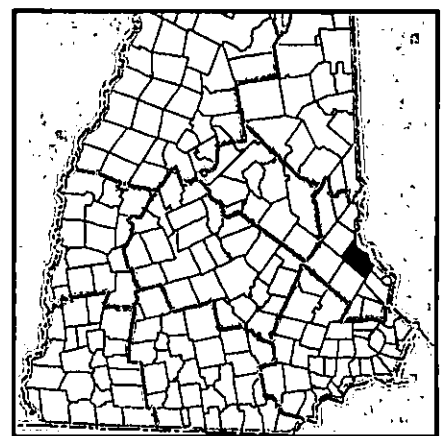
**LEGEND**

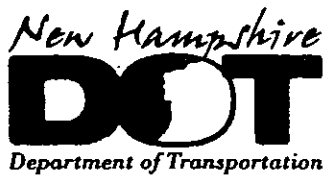
- Streams
- Water Bodies
- US Routes
- State Routes
- Interstates
- Local Roads
- Town Boundary

*New Hampshire*  
**DOT**  
 Department of Transportation

State #: 41849  
 Federal #: X-A004 (762)

**LOCATION MAP**





# ABC Bid Data

ROCHESTER  
41849  
X-A004(762)

<b>PROJECT:</b>	ROCHESTER	<b>Awarded To:</b>	BROX INDUSTRIES, INC.	<b>Certified by:</b>	<b>PETER.E.STAMNAS</b>
<b>STATE PROJECT NUMBER:</b>	41849		1471 METHUEN STREET		<small>Director of Project Development</small>
<b>FED. PROJECT NUMBER:</b>	X-A004(762)		DRACUT, MA 01826		
<b>DATE BIDS OPEN:</b>	September 20, 2018,	<b>Amount:</b>	\$476,806.55	<b>Award Date:</b>	
<b>SCOPE OF WORK:</b>	NH 125 corridor safety improvements				
<b>COMPLETION DATE:</b>	September 27, 2019				
<b>LOCATION:</b>	Strafford				

## Summary of Bidders

Contractor	Bid Amount	Rank
BROX INDUSTRIES, INC. 1471 METHUEN STREET, DRACUT, MA 01826	\$476,806.55	A
SUR CONSTRUCTION, INC. 233 Chestnut Hill Road, ROCHESTER NH 03867	\$558,141.25	B

Item No.	Description	Unit	Quantity	P&A		BROX INDUSTRIES, INC. 1471 METHUEN STREET DRACUT, MA 01825		SUR CONSTRUCTION, INC. 233 Chestnut Hill Road Rochester, NH 03067	
				Unit Price	Total	Unit Price	Total	Unit Price	Total

Items

304.32	CRUSHED GRAVEL FOR SHOULDER LEVELING	TON	230.00	\$35.00	\$8,050.00	\$30.00	\$6,900.00	\$55.00	\$12,850.00
403.119	HOT BITUMINOUS PAVEMENT, MACHINE METHOD, HIGH STRENGTH	TON	1,025.00	\$95.00	\$97,375.00	\$100.00	\$102,500.00	\$85.00	\$87,125.00
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	TON	380.00	\$115.00	\$43,700.00	\$110.00	\$41,800.00	\$135.00	\$51,300.00
403.4	MATERIAL TRANSFER VEHICLE (MTV)	TON	1,025.00	\$2.50	\$2,562.50	\$3.00	\$3,075.00	\$3.00	\$3,075.00
403.6	PAVEMENT JOINT ADHESIVE	LF	14,000.00	\$0.35	\$4,900.00	\$0.30	\$4,200.00	\$0.25	\$3,500.00
403.98	HOT BITUMINOUS CONCRETE LEVELING, MACHINE METHOD	TON	325.00	\$80.00	\$26,000.00	\$80.00	\$26,000.00	\$95.00	\$30,875.00
410.22	ASPHALT EMULSION FOR TACK COAT	GAL	1,050.00	\$5.00	\$5,250.00	\$5.50	\$5,775.00	\$6.00	\$6,300.00
411.1	HOT BITUMINOUS CONCRETE LEVELING COURSE	TON	335.00	\$85.00	\$28,475.00	\$98.00	\$32,830.00	\$95.00	\$31,825.00
417.	COLD PLANING BITUMINOUS SURFACES	SY	3,350.00	\$4.00	\$13,400.00	\$8.00	\$26,800.00	\$7.00	\$23,450.00
604.0007	POLYETHYLENE LINER	EA	4.00	\$215.00	\$860.00	\$115.00	\$460.00	\$300.00	\$1,200.00
604.4	RECONSTRUCTING/ADJUSTING CATCH BASIN & DROP INLET	LF	4.00	\$400.00	\$1,600.00	\$625.00	\$2,500.00	\$500.00	\$2,000.00
614.511	CONCRETE PULL BOX 14"	EA	4.00	\$1,025.00	\$4,100.00	\$1,000.00	\$4,000.00	\$800.00	\$3,200.00
615.0301	TRAFFIC SIGN TYPE C	SF	117.00	\$42.00	\$4,914.00	\$38.40	\$4,492.80	\$50.00	\$5,850.00
615.033	REMOVING TRAFFIC SIGN, TYPE C	U	22.00	\$50.00	\$1,100.00	\$25.00	\$550.00	\$60.00	\$1,320.00
615.0601	TRAFFIC SIGN TYPE CC	SF	21.00	\$20.00	\$420.00	\$12.50	\$262.50	\$55.00	\$1,155.00
616.191	ALTERATIONS TO TRAFFIC SIGNALS	U	1.00	\$62,500.00	\$62,500.00	\$76,000.00	\$76,000.00	\$81,000.00	\$81,000.00
618.61	UNIFORMED OFFICERS WITH VEHICLE	\$	8,000.00	\$1.00	\$8,000.00	\$1.00	\$8,000.00	\$1.00	\$8,000.00
618.7	FLAGGERS	HR	200.00	\$25.00	\$5,000.00	\$33.00	\$6,600.00	\$40.00	\$8,000.00
619.1	MAINTENANCE OF TRAFFIC	U	1.00	\$20,000.00	\$20,000.00	\$35,000.00	\$35,000.00	\$68,215.00	\$68,215.00
619.25	PORTABLE CHANGEABLE MESSAGE SIGN	U	2.00	\$4,000.00	\$8,000.00	\$2,400.00	\$4,800.00	\$3,500.00	\$7,000.00
619.279	AUTOMATED TRAILER-MOUNTED SPEED LIMIT SIGN	U	2.00	\$5,000.00	\$10,000.00	\$4,800.00	\$9,600.00	\$4,500.00	\$9,000.00
628.2	SAWED BITUMINOUS PAVEMENT	LF	800.00	\$2.50	\$2,000.00	\$1.50	\$1,200.00	\$1.50	\$1,200.00
632.0104	RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE	LF	13,800.00	\$0.30	\$4,140.00	\$0.25	\$3,450.00	\$0.25	\$3,450.00
632.3104	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 4" LINE	LF	75.00	\$2.50	\$187.50	\$1.75	\$131.25	\$1.75	\$131.25
632.3118	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 18" LINE	LF	140.00	\$10.00	\$1,400.00	\$6.75	\$945.00	\$6.75	\$945.00
632.32	RETROREFLECT. THERMOPLAS. PAVEMENT MARKING, SYMBOL OR WORD	SF	200.00	\$12.00	\$2,400.00	\$7.75	\$1,550.00	\$7.75	\$1,550.00
641.	LOAM	CY	200.00	\$40.00	\$8,000.00	\$40.00	\$8,000.00	\$35.00	\$7,000.00
645.512	COMPOST SOCK FOR PERIMETER BERM	LF	200.00	\$6.50	\$1,300.00	\$7.30	\$1,460.00	\$5.00	\$1,000.00
648.31	TURF ESTABLISHMENT WITH MULCH AND TACKIFIERS	SY	1,850.00	\$1.50	\$2,775.00	\$0.50	\$925.00	\$1.00	\$1,850.00

Item No.	Description	Unit	Quantity	PS&E		BROX INDUSTRIES, INC. 1471 METHUEN STREET DRACUT, MA 01826		SUR CONSTRUCTION, INC. 233 Chestnut Hill Road Rochester, NH 03867	
				Unit Price	Total	Unit Price	Total	Unit Price	Total
692.	MOBILIZATION	U	1.00	\$30,000.00	\$30,000.00	\$40,000.00	\$40,000.00	\$77,975.00	\$77,975.00
699.	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	\$	6,000.00	\$1.00	\$5,000.00	\$1.00	\$5,000.00	\$1.00	\$5,000.00
1010.15	FUEL ADJUSTMENT	\$	2,000.00	\$1.00	\$2,000.00	\$1.00	\$2,000.00	\$1.00	\$2,000.00
1010.2	ASPHALT CEMENT ADJUSTMENT	\$	10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00
<b>Totals:</b>					<b>\$425,409.00</b>		<b>\$478,808.55</b>		<b>\$558,141.25</b>
<b>Alt. Totals:</b>									
<b>Totals:</b>					<b>\$425,409.00</b>		<b>\$478,808.55</b>		<b>\$558,141.25</b>

## PS&E Comparison

ROCHESTER

41849

X-A004(762)

Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
<b>Items</b>								
304.32	CRUSHED GRAVEL FOR SHOULDER LEVELING	TON	230.00	\$30.00	\$6,900.00	\$35.00	\$8,050.00	(\$1,150.00)
403.119	HOT BITUMINOUS PAVEMENT, MACHINE METHOD, HIGH STRENGTH	TON	1,025.00	\$100.00	\$102,500.00	\$95.00	\$97,375.00	\$5,125.00
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	TON	380.00	\$110.00	\$41,800.00	\$115.00	\$43,700.00	(\$1,900.00)
403.4	MATERIAL TRANSFER VEHICLE (MTV)	TON	1,025.00	\$3.00	\$3,075.00	\$2.50	\$2,562.50	\$512.50
403.6	PAVEMENT JOINT ADHESIVE	LF	14,000.00	\$0.30	\$4,200.00	\$0.35	\$4,900.00	(\$700.00)
403.98	HOT BITUMINOUS CONCRETE LEVELING, MACHINE METHOD	TON	325.00	\$80.00	\$26,000.00	\$80.00	\$26,000.00	\$0.00
410.22	ASPHALT EMULSION FOR TACK COAT	GAL	1,050.00	\$5.50	\$5,775.00	\$5.00	\$5,250.00	\$525.00
411.1	HOT BITUMINOUS CONCRETE LEVELING COURSE	TON	335.00	\$98.00	\$32,830.00	\$85.00	\$28,475.00	\$4,355.00
417.	COLD PLANING BITUMINOUS SURFACES	SY	3,350.00	\$8.00	\$26,800.00	\$4.00	\$13,400.00	\$13,400.00
604.0007	POLYETHYLENE LINER	EA	4.00	\$115.00	\$460.00	\$215.00	\$860.00	(\$400.00)
604.4	RECONSTRUCTING/ADJUSTING CATCH BASIN & DROP INLET	LF	4.00	\$625.00	\$2,500.00	\$400.00	\$1,600.00	\$900.00
614.511	CONCRETE PULL BOX 14"	EA	4.00	\$1,000.00	\$4,000.00	\$1,025.00	\$4,100.00	(\$100.00)
615.0301	TRAFFIC SIGN TYPE C	SF	117.00	\$38.40	\$4,492.80	\$42.00	\$4,914.00	(\$421.20)
615.033	REMOVING TRAFFIC SIGN, TYPE C	U	22.00	\$25.00	\$550.00	\$50.00	\$1,100.00	(\$550.00)



615.0601	TRAFFIC SIGN TYPE CC	SF	21.00	\$12.50	\$262.50	\$20.00	\$420.00	(\$157.50)
616.191	ALTERATIONS TO TRAFFIC SIGNALS	U	1.00	\$76,000.00	\$76,000.00	\$62,500.00	\$62,500.00	\$13,500.00
618.61	UNIFORMED OFFICERS WITH VEHICLE	\$	8,000.00	\$1.00	\$8,000.00	\$1.00	\$8,000.00	\$0.00
618.7	FLAGGERS	HR	200.00	\$33.00	\$6,600.00	\$25.00	\$5,000.00	\$1,600.00
619.1	MAINTENANCE OF TRAFFIC	U	1.00	\$35,000.00	\$35,000.00	\$20,000.00	\$20,000.00	\$15,000.00
619.25	PORTABLE CHANGEABLE MESSAGE SIGN	U	2.00	\$2,400.00	\$4,800.00	\$4,000.00	\$8,000.00	(\$3,200.00)
619.279	AUTOMATED TRAILER-MOUNTED SPEED LIMIT SIGN	U	2.00	\$4,800.00	\$9,600.00	\$5,000.00	\$10,000.00	(\$400.00)
628.2	SAWED BITUMINOUS PAVEMENT	LF	800.00	\$1.50	\$1,200.00	\$2.50	\$2,000.00	(\$800.00)
632.0104	RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE	LF	13,800.00	\$0.25	\$3,450.00	\$0.30	\$4,140.00	(\$690.00)
632.3104	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 4" LINE	LF	75.00	\$1.75	\$131.25	\$2.50	\$187.50	(\$56.25)
632.3118	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 18" LINE	LF	140.00	\$6.75	\$945.00	\$10.00	\$1,400.00	(\$455.00)
632.32	RETROREFLECT. THERMOPLAS. PAVEMENT MARKING, SYMBOL OR WORD	SF	200.00	\$7.75	\$1,550.00	\$12.00	\$2,400.00	(\$850.00)
641.	LOAM	CY	200.00	\$40.00	\$8,000.00	\$40.00	\$8,000.00	\$0.00
645.512	COMPOST SOCK FOR PERIMETER BERM	LF	200.00	\$7.30	\$1,460.00	\$6.50	\$1,300.00	\$160.00
646.31	TURF ESTABLISHMENT WITH MULCH AND TACKIFIERS	SY	1,850.00	\$0.50	\$925.00	\$1.50	\$2,775.00	(\$1,850.00)
692.	MOBILIZATION	U	1.00	\$40,000.00	\$40,000.00	\$30,000.00	\$30,000.00	\$10,000.00
699.	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	\$	5,000.00	\$1.00	\$5,000.00	\$1.00	\$5,000.00	\$0.00
1010.15	FUEL ADJUSTMENT	\$	2,000.00	\$1.00	\$2,000.00	\$1.00	\$2,000.00	\$0.00
1010.2	ASPHALT CEMENT ADJUSTMENT	\$	10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00	\$0.00

**Total:**

\$476,806.55

\$425,409.00

\$51,397.55



