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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
 May 8, 2018

REQUESTED ACTION

1. Authorize the Department of Transportation to enter into a contract with F.L. Merrill Construction, Inc. (Vendor 156850) of Loudon, NH on the basis of a low bid of \$1,488,252.90 for reconstruction work at the unsignalized NH 101 EB off ramp/NH 101A interchange in Amherst, near the Milford town line, from the date of Governor and Council approval through October 5, 2018 unless extended by the Department in accordance with the Standard Specifications. 100% Federal Funds.

Funding is available in State Fiscal Year 2018 and 2019 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 2018</u>	<u>FY 2019</u>
04-96-96-963515-3054		
Consolidated Federal Aid		
400-500870 Highway Contract Payments	\$300,000.00	\$1,188,252.90

2. Further authorize that a contingency in the amount of \$148,825.29 be approved for payment of latent conditions, which may appear during the construction of the project. The contingency requested is 10% of the contract amount.

Funding is available as follows:	<u>FY 2018</u>	<u>FY 2019</u>
04-96-96-963515-3054		
Consolidated Federal Aid		
400-500870 Highway Contract Payments		\$148,825.29

EXPLANATION

This project is part of the State's Ten Year Transportation Improvement Plan. This project consists of reconstruction work at the unsignalized NH 101 EB off ramp/NH 101A interchange in Amherst, near the Milford town line. All work will be located within existing State right-of-way.

Proposed work includes widening the single lane NH 101 EB off-ramp to provide lane separation between left and right turning traffic. The eastbound slip-ramp is improved to include an acceleration lane onto NH 101A (eastbound) for improved operation (merging into the NH 101A traffic flow). The proposed improvements will accommodate peak hour demand volumes for right turn movements, thus improving the capacity and operation of the intersection. These improvements also include the construction of a water quality basin along the north side of NH 101A at this location, to address water quality needs.

This project was identified in the Milford-Nashua 10136 Corridor Study. One goal of the study was to address problems in the NH 101A corridor by identifying specific transportation improvements within the corridor; traffic volumes/peak hour demand for NH 101 east bound ramp was one of the problems chosen to be addressed. Traffic demand for right turn movements at this intersection exceed the ramp capacity, resulting in lengthy delays and queueing, with the queue for right turning traffic often extending down the ramp.

The contingency amount is proposed to be approximately 10% of the Contract amount. Uncertainties with ledge removal and Limited Re-use Soils (LRS) may increase the risk of overruns; additionally there has been a recent escalation in the asphalt and fuel adjustment rates.

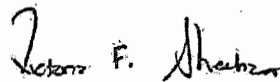
Although the bid costs exceeded the Department's estimate by 5.60%, the low bid of 2 bids received is felt to be reasonable for the work involved. Re-advertising this project would result, in our opinion, in higher prices and prevent the completion of the work in a timely manner. The Department considers 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 80% federal funds with 20% 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: \$1,409,360.50
Contract Amount: \$1,488,252.90
Over Estimate: \$ 78,892.40
Attachments

SUPPLEMENTAL PROJECT INFORMATION SHEET

DESCRIPTION: This project consists of reconstruction work at the unsignalized NH 101 EB off ramp/NH 101A interchange in Amherst, near the Milford town line. All work will be located within existing State right-of-way.

Proposed work includes widening the single lane NH 101 EB off-ramp to provide lane separation between left and right turning traffic. The eastbound slip-ramp is improved to include an acceleration lane onto NH 101A (eastbound) for improved operation (merging into the NH 101A traffic flow). The proposed improvements will accommodate peak hour demand volumes for right turn movements, thus improving the capacity and operation of the intersection. These improvements also include the construction of a water quality basin along the north side of NH 101A at this location, to address water quality needs.

FEDERAL FUNDING: 80% utilizing Turnpike Toll credits as the State's 20% match

CONTINGENCY: The contingency amount is proposed to be approximately 10% of the Contract amount. Uncertainties with ledge removal and Limited Re-use Soils (LRS) may increase the risk of overruns; additionally there has been a recent escalation in the asphalt and fuel adjustment rates.

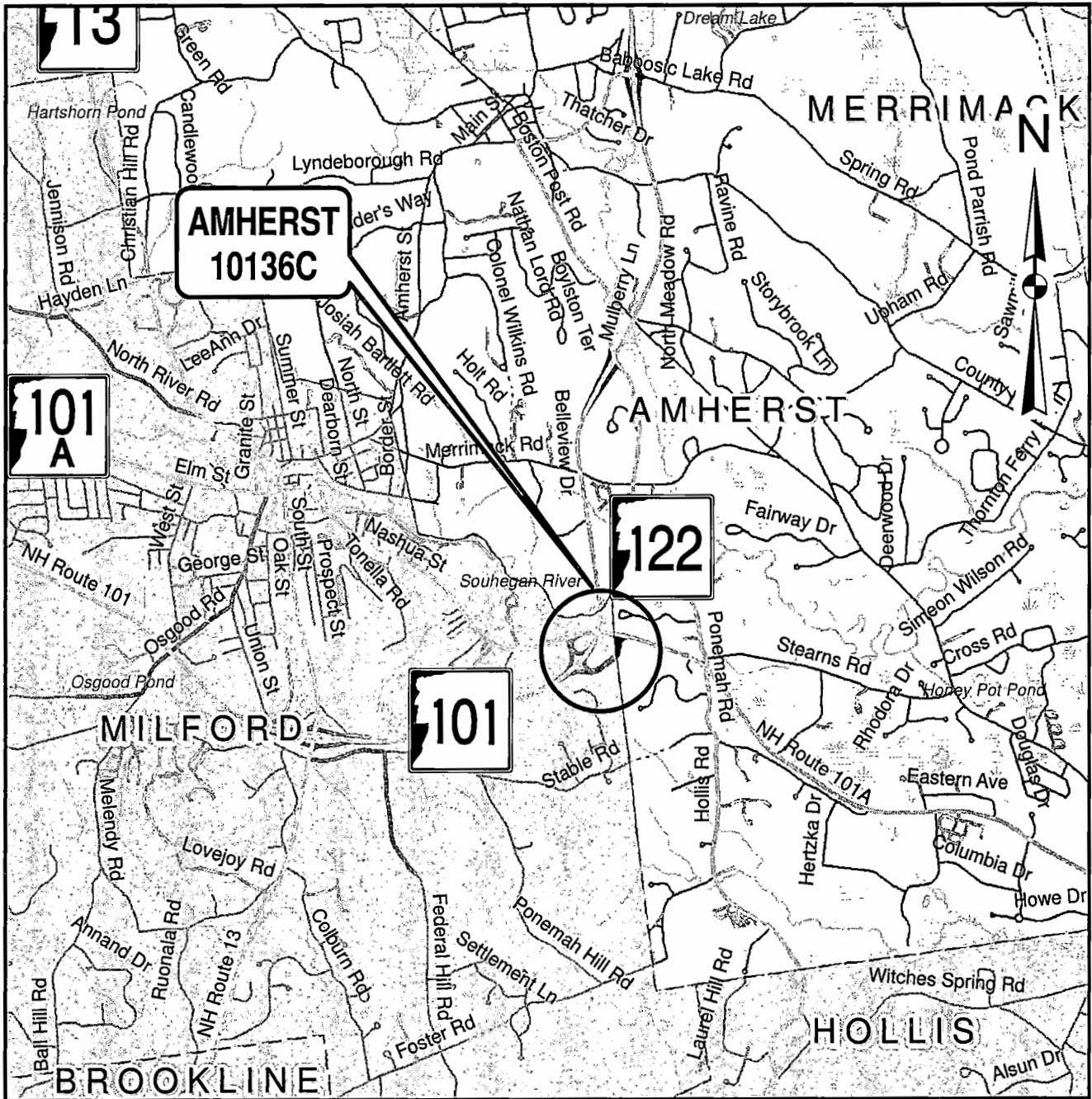
PROJECT INITIATED: State's 10-Year Transportation Improvement Plan.

PROJECT EXPLANATION: This project was identified in the Milford-Nashua 10136 Corridor Study. One goal of the study was to address problems in the NH 101A corridor by identifying specific transportation improvements within the corridor; traffic volumes/peak hour demand for NH 101 east bound ramp was one of the problems chosen to be addressed. Traffic demand for right turn movements at this intersection exceed the ramp capacity, resulting in lengthy delays and queueing, with the queue for right turning traffic often extending down the ramp.

TRAFFIC IMPLICATIONS: One lane operation along NH 101A for select construction operations, during non-peak week-day traffic hours utilizing uniformed officers with vehicles, will be required. In addition, there will be traffic shutdowns on NH 101 and NH 101A during blasting operations. Portable changeable message signs will be utilized on NH 101 and 101A to provide construction/traffic impact updates, as appropriate

COMPLETION DATE: Friday, October 5, 2018

TOWN - ROUTE/ROAD



LEGEND

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

New Hampshire
DOT
 Department of Transportation

State #: 10136C
 Federal #: X-A001(264)
LOCATION MAP





ABC Bid Data

AMHERST
10136C
X-A001(264)

PROJECT: AMHERST
STATE PROJECT NUMBER: 10136C
FED. PROJECT NUMBER: X-A001(264)
DATE BIDS OPEN: May 03, 2018, 2:00 PM
SCOPE OF WORK: Reconstruction of EB ramps at NH 101 and NH 101A
COMPLETION DATE: October 05, 2018
LOCATION: Hillsborough

Awarded To: MERRILL F L
CONSTRUCTION
35 VETERANS DRIVE
LOUDON, NH 03307

Amount: \$1,488,252.90

Award Date:

Certified by: PETER.E.STAMNAS
Director of Project Development

Summary of Bidders

Contractor	Bid Amount	Rank
MERRILL F L CONSTRUCTION 35 VETERANS DRIVE LOUDON NH 03307	\$1,488,252.90	A
NORTHEAST EARTH MECHANICS INC 159 BARNSTEAD ROAD, PITTSFIELD NH 03263	\$1,640,841.50	B

Item No.	Description	Unit	Quantity	PS&E		MERRILL F L CONSTRUCTION 35 VETERANS DRIVE LOUDON, NH 03307		NORTHEAST EARTH MECHANICS INC 159 BARNSTEAD ROAD PITTSFIELD, NH 03263	
				Unit Price	Total	Unit Price	Total	Unit Price	Total

Items

201.1	CLEARING AND GRUBBING (F)	A	1.10	\$13,500.00	\$14,850.00	\$12,000.00	\$13,200.00	\$11,500.00	\$12,650.00
201.881	INVASIVE SPECIES CONTROL TYPE I	SY	2,600.00	\$4.00	\$10,400.00	\$9.00	\$23,400.00	\$3.00	\$7,800.00
201.882	INVASIVE SPECIES CONTROL TYPE II	SY	450.00	\$6.50	\$2,925.00	\$9.00	\$4,050.00	\$6.00	\$2,700.00
202.41	REMOVAL OF EXISTING PIPE 0-24" DIAMETER	LF	300.00	\$25.00	\$7,500.00	\$19.00	\$5,700.00	\$13.00	\$3,900.00
202.5	REMOVAL OF CATCH BASINS, DROP INLETS, AND MANHOLES	EA	2.00	\$375.00	\$750.00	\$365.00	\$730.00	\$350.00	\$700.00
202.6	CURB REMOVAL FOR SALVAGE	LF	760.00	\$4.00	\$3,040.00	\$3.50	\$2,660.00	\$1.00	\$760.00
202.841	REMOVAL OF PULL BOX	EA	14.00	\$250.00	\$3,500.00	\$600.00	\$8,400.00	\$200.00	\$2,800.00
202.843	REMOVAL OF LIGHT POLE	U	6.00	\$800.00	\$4,800.00	\$800.00	\$4,800.00	\$2,000.00	\$12,000.00
203.1	COMMON EXCAVATION	CY	2,000.00	\$18.00	\$36,000.00	\$18.00	\$36,000.00	\$10.00	\$20,000.00
203.11	COMMON EXCAVATION - LRS	CY	1,900.00	\$25.00	\$47,500.00	\$22.00	\$41,800.00	\$10.00	\$19,000.00
203.2	ROCK EXCAVATION	CY	2,900.00	\$25.00	\$72,500.00	\$38.00	\$110,200.00	\$60.00	\$174,000.00
203.53	LOW PERMEABILITY FILL (F)	CY	95.00	\$20.00	\$1,900.00	\$56.00	\$5,320.00	\$25.00	\$2,375.00
203.6	EMBANKMENT-IN-PLACE (F)	CY	712.00	\$12.00	\$8,544.00	\$10.00	\$7,120.00	\$10.00	\$7,120.00
203.91	ROCK SCALING - HAND METHOD	HR	120.00	\$200.00	\$24,000.00	\$275.00	\$33,000.00	\$150.00	\$18,000.00
206.1	COMMON STRUCTURE EXCAVATION	CY	930.00	\$19.00	\$17,670.00	\$26.75	\$24,877.50	\$13.00	\$12,090.00
206.19	COMMON STRUCTURE EXCAVATION EXPLORATORY	CY	40.00	\$50.00	\$2,000.00	\$70.00	\$2,800.00	\$40.00	\$1,600.00
206.2	ROCK STRUCTURE EXCAVATION	CY	90.00	\$75.00	\$6,750.00	\$99.00	\$8,910.00	\$95.00	\$8,550.00
209.1	GRANULAR BACKFILL	CY	5.00	\$45.00	\$225.00	\$24.50	\$122.50	\$35.00	\$175.00
209.3	GRANULAR BACKFILL (SAND)	CY	280.00	\$45.00	\$12,600.00	\$24.00	\$6,720.00	\$25.00	\$7,000.00
214.	FINE GRADING	U	1.00	\$15,000.00	\$15,000.00	\$25,000.00	\$25,000.00	\$30,000.00	\$30,000.00
304.1	SAND (F)	CY	2,084.00	\$18.00	\$37,512.00	\$24.00	\$50,016.00	\$23.00	\$47,932.00
304.2	GRAVEL (F)	CY	1,331.00	\$30.00	\$39,930.00	\$26.00	\$34,606.00	\$25.00	\$33,275.00
304.3	CRUSHED GRAVEL (F)	CY	776.00	\$40.00	\$31,040.00	\$31.40	\$24,366.40	\$31.00	\$24,056.00
304.4	CRUSHED STONE (FINE GRADATION) (F)	CY	129.00	\$25.00	\$3,225.00	\$38.00	\$4,902.00	\$32.00	\$4,128.00
403.11002	HOT BITUMINOUS PAVEMENT, MACHINE METHOD (QC/QA TIER 2)	TON	800.00	\$80.00	\$64,000.00	\$83.00	\$66,400.00	\$80.00	\$64,000.00
403.11902	HBP - MACHINE METHOD, HIGH STRENGTH (QC/QA TIER 2)	TON	570.00	\$90.00	\$51,300.00	\$90.00	\$51,300.00	\$90.00	\$51,300.00
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	TON	240.00	\$150.00	\$36,000.00	\$120.00	\$28,800.00	\$115.00	\$27,600.00
403.6	PAVEMENT JOINT ADHESIVE	LF	7,700.00	\$0.28	\$2,156.00	\$0.40	\$3,080.00	\$0.40	\$3,080.00
410.22	ASPHALT EMULSION FOR TACK COAT	GAL	400.00	\$8.00	\$3,200.00	\$4.00	\$1,600.00	\$4.00	\$1,600.00

Item No.	Description	Unit	Quantity	PS&E		MERRILL F L CONSTRUCTION 35 VETERANS DRIVE LOUDON, NH 03307		NORTHEAST EARTH MECHANICS INC 159 BARNSTEAD ROAD PITTSFIELD, NH 03263	
				Unit Price	Total	Unit Price	Total	Unit Price	Total
417.	COLD PLANING BITUMINOUS SURFACES	SY	3,700.00	\$3.50	\$12,950.00	\$3.00	\$11,100.00	\$3.00	\$11,100.00
520.1	CONCRETE CLASS A	CY	2.00	\$850.00	\$1,700.00	\$870.00	\$1,740.00	\$2,000.00	\$4,000.00
585.3	STONE FILL, CLASS C	CY	40.00	\$50.00	\$2,000.00	\$55.00	\$2,200.00	\$50.00	\$2,000.00
593.421	GEOTEXTILE; PERM CONTROL CL.2, NON-WOVEN	SY	190.00	\$5.00	\$950.00	\$3.30	\$627.00	\$2.50	\$475.00
593.521	PVC GEOMEMBRANE LINER (40 MIL)	SY	660.00	\$10.00	\$6,600.00	\$10.15	\$6,699.00	\$20.00	\$13,200.00
603.0001	VIDEO INSPECTION	LF	1,030.00	\$3.00	\$3,090.00	\$3.30	\$3,399.00	\$1.50	\$1,545.00
603.00215	15" R.C. PIPE, 2000D	LF	130.00	\$50.00	\$6,500.00	\$55.00	\$7,150.00	\$55.00	\$7,150.00
603.00218	18" R.C. PIPE, 2000D	LF	130.00	\$65.00	\$8,450.00	\$60.00	\$7,800.00	\$59.00	\$7,670.00
603.00315	15" R.C. PIPE, 3000D	LF	80.00	\$61.00	\$4,880.00	\$145.00	\$11,600.00	\$55.00	\$4,400.00
603.30115	15" R.C. END SECTIONS	EA	1.00	\$500.00	\$500.00	\$960.00	\$960.00	\$850.00	\$850.00
603.30118	18" R.C. END SECTIONS	EA	1.00	\$800.00	\$800.00	\$1,015.00	\$1,015.00	\$900.00	\$900.00
603.82212	12" PE PIPE (TYPE S)	LF	110.00	\$55.00	\$6,050.00	\$45.00	\$4,950.00	\$50.00	\$5,500.00
603.82215	15" PE PIPE (TYPE S)	LF	40.00	\$60.00	\$2,400.00	\$48.00	\$1,920.00	\$52.00	\$2,080.00
604.0007	POLYETHYLENE LINER	EA	10.00	\$160.00	\$1,600.00	\$180.00	\$1,800.00	\$200.00	\$2,000.00
604.124	CATCH BASINS TYPE B, 4-FOOT DIAMETER	U	13.00	\$2,500.00	\$32,500.00	\$3,360.00	\$43,680.00	\$2,500.00	\$32,500.00
604.324	DRAINAGE MANHOLES, 4-FOOT DIAMETER	U	2.00	\$3,000.00	\$6,000.00	\$3,150.00	\$6,300.00	\$2,500.00	\$5,000.00
604.4	RECONSTRUCTING/ADJUSTING CATCH BASIN & DROP INLET	LF	25.00	\$440.00	\$11,000.00	\$420.00	\$10,500.00	\$450.00	\$11,250.00
604.9101	OUTLET CONTROL STRUCTURE	U	1.00	\$7,500.00	\$7,500.00	\$4,450.00	\$4,450.00	\$4,000.00	\$4,000.00
605.518	18" PERF. CORR. POLYETHYLENE PIPE UNDERDRAIN	LF	380.00	\$70.00	\$26,600.00	\$50.00	\$19,000.00	\$44.00	\$16,720.00
605.524	24" PERF. CORR. POLYETHYLENE PIPE UNDERDRAIN	LF	180.00	\$90.00	\$16,200.00	\$55.00	\$9,900.00	\$55.00	\$9,900.00
606.417	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL	LF	950.00	\$25.00	\$23,750.00	\$43.75	\$41,562.50	\$45.00	\$42,750.00
606.9513	TEMP. IMPACT ATTENUATION DEVICE (REDIRECTIVE), TEST LEVEL 3	U	1.00	\$10,000.00	\$10,000.00	\$5,500.00	\$5,500.00	\$9,000.00	\$9,000.00
607.350	CHAIN LINK FENCE WITH VINYL COATED STEEL FABRIC, 5' HIGH	LF	450.00	\$28.00	\$12,600.00	\$22.70	\$10,215.00	\$23.00	\$10,350.00
607.4350	POST ASSEMBLIES FOR CHAIN LINK FENCE WITH VINYL CTD STL FABRIC, 5' HIGH	EA	11.00	\$120.00	\$1,320.00	\$165.00	\$1,815.00	\$165.00	\$1,815.00
607.5180	WOOD FENCE (STOCKADE), 8'-0" HIGH	LF	590.00	\$30.00	\$17,700.00	\$39.20	\$23,128.00	\$40.00	\$23,600.00
607.73518	18' OPENING DOUBLE GATE, CHAIN LINK VINYL COATED STEEL FABRIC, 5' HIGH	U	1.00	\$1,800.00	\$1,800.00	\$1,740.00	\$1,740.00	\$1,700.00	\$1,700.00
608.26	6" CONCRETE SIDEWALK (F)	SY	7.00	\$55.00	\$385.00	\$85.00	\$595.00	\$125.00	\$875.00
609.01	STRAIGHT GRANITE CURB	LF	340.00	\$30.00	\$10,200.00	\$25.00	\$8,500.00	\$20.00	\$6,800.00
609.214	STRAIGHT GRANITE SLOPE CURB, 4" HIGH	LF	680.00	\$20.00	\$13,600.00	\$22.00	\$14,960.00	\$16.25	\$11,050.00
609.224	STRAIGHT GRANITE SLOPE CURB WITH RADIAL JOINTS, 4" HIGH	LF	20.00	\$25.00	\$500.00	\$22.00	\$440.00	\$16.25	\$325.00
609.234	CURVED GRANITE SLOPE CURB 4" HIGH	LF	10.00	\$75.00	\$750.00	\$82.00	\$820.00	\$75.00	\$750.00

Item No.	Description	Unit	Quantity	PS&E		MERRILL F L CONSTRUCTION 35 VETERANS DRIVE LOUDON, NH 03307		NORTHEAST EARTH MECHANICS INC 159 BARNSTEAD ROAD PITTSFIELD, NH 03263	
				Unit Price	Total	Unit Price	Total	Unit Price	Total
609.5	RESET GRANITE CURB	LF	760.00	\$15.00	\$11,400.00	\$13.40	\$10,184.00	\$8.00	\$6,080.00
614.331	3" STEEL CONDUIT	LF	110.00	\$55.00	\$6,050.00	\$40.00	\$4,400.00	\$45.00	\$4,950.00
614.523	MOLDED PULL BOX 17"X30"	EA	4.00	\$750.00	\$3,000.00	\$2,500.00	\$10,000.00	\$600.00	\$2,400.00
614.73114	3" PVC CONDUIT, SCHEDULE 40	LF	360.00	\$24.00	\$8,640.00	\$25.00	\$9,000.00	\$20.00	\$7,200.00
614.73118	3" PVC CONDUIT, SCHEDULE 80	LF	230.00	\$26.00	\$5,980.00	\$30.00	\$6,900.00	\$25.00	\$5,750.00
615.02201	TRAFFIC SIGN TYPE B, BREAKAWAY MOUNTS	SF	60.00	\$165.00	\$9,900.00	\$135.00	\$8,100.00	\$135.00	\$8,100.00
615.023	REMOVING TRAFFIC SIGN TYPE B	U	2.00	\$75.00	\$150.00	\$75.00	\$150.00	\$75.00	\$150.00
615.0301	TRAFFIC SIGN TYPE C	SF	110.00	\$53.00	\$5,830.00	\$92.00	\$10,120.00	\$92.00	\$10,120.00
615.033	REMOVING TRAFFIC SIGN, TYPE C	U	19.00	\$50.00	\$950.00	\$35.00	\$665.00	\$35.00	\$665.00
615.0401	TRAFFIC SIGN TYPE AA	SF	210.00	\$40.00	\$8,400.00	\$37.00	\$7,770.00	\$37.00	\$7,770.00
615.043	REMOVING TRAFFIC SIGN TYPE AA	U	2.00	\$300.00	\$600.00	\$450.00	\$900.00	\$450.00	\$900.00
615.0501	TRAFFIC SIGN TYPE BB	SF	4.00	\$19.00	\$76.00	\$12.00	\$48.00	\$12.00	\$48.00
615.0601	TRAFFIC SIGN TYPE CC	SF	60.00	\$15.00	\$900.00	\$9.00	\$540.00	\$9.00	\$540.00
618.61	UNIFORMED OFFICERS WITH VEHICLE	\$	73,000.00	\$1.00	\$73,000.00	\$1.00	\$73,000.00	\$1.00	\$73,000.00
618.7	FLAGGERS	HR	2,070.00	\$25.00	\$51,750.00	\$30.00	\$62,100.00	\$30.00	\$62,100.00
619.1	MAINTENANCE OF TRAFFIC	U	1.00	\$50,000.00	\$50,000.00	\$80,000.00	\$80,000.00	\$100,000.00	\$100,000.00
619.25	PORTABLE CHANGEABLE MESSAGE SIGN	U	4.00	\$5,100.00	\$20,400.00	\$1,650.00	\$6,600.00	\$3,500.00	\$14,000.00
621.31	SINGLE DELINEATOR WITH POST	EA	30.00	\$35.00	\$1,050.00	\$35.00	\$1,050.00	\$45.00	\$1,350.00
622.1	STEEL WITNESS MARKERS	EA	10.00	\$30.00	\$300.00	\$35.00	\$350.00	\$45.00	\$450.00
625.2	CONCRETE LIGHT POLE BASES, TYPE B	EA	2.00	\$2,000.00	\$4,000.00	\$2,650.00	\$5,300.00	\$1,500.00	\$3,000.00
625.55140	LIGHT POLE WITH LED LUMINAIRE (40' TALL, SINGLE HEAD)	EA	3.00	\$3,500.00	\$10,500.00	\$6,500.00	\$19,500.00	\$7,500.00	\$22,500.00
628.2	SAWED BITUMINOUS PAVEMENT	LF	1,400.00	\$1.50	\$2,100.00	\$1.50	\$2,100.00	\$1.25	\$1,750.00
632.0104	RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE	LF	6,500.00	\$0.25	\$1,625.00	\$0.35	\$2,275.00	\$0.30	\$1,950.00
632.1104	PREFORMED RETROREFLECTIVE TAPE, TYPE I (REMOVABLE) 4" LINE	LF	3,400.00	\$1.50	\$5,100.00	\$2.00	\$6,800.00	\$1.50	\$5,100.00
632.3104	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 4" LINE	LF	1,600.00	\$1.00	\$1,600.00	\$2.00	\$3,200.00	\$1.00	\$1,600.00
632.3108	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 8" LINE	LF	410.00	\$1.75	\$717.50	\$4.00	\$1,640.00	\$2.25	\$922.50
632.3118	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 18" LINE	LF	30.00	\$5.00	\$150.00	\$8.00	\$240.00	\$5.00	\$150.00
632.32	RETROREFLECT. THERMOPLAS. PAVEMENT MARKING, SYMBOL OR WORD	SF	160.00	\$7.00	\$1,120.00	\$11.00	\$1,760.00	\$10.00	\$1,600.00
643.21	FERTILIZER FOR REFERTILIZATION	LB	3,600.00	\$2.50	\$9,000.00	\$0.50	\$1,800.00	\$0.50	\$1,800.00
644.62	WET BASIN/MEADOW SEED TYPE 62	LB	80.00	\$250.00	\$20,000.00	\$190.00	\$15,200.00	\$200.00	\$16,000.00
645.119	MULCH WITH TACKIFIERS	A	4.20	\$1,100.00	\$4,620.00	\$950.00	\$3,990.00	\$1,000.00	\$4,200.00

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645.3	EROSION STONE	TON	470.00	\$30.00	\$14,100.00	\$27.00	\$12,690.00	\$22.00	\$10,340.00
645.45	PERMANENT CHANNEL MATTING TYPE A	SY	920.00	\$3.50	\$3,220.00	\$6.00	\$5,520.00	\$6.00	\$5,520.00
645.512	COMPOST SOCK FOR PERIMETER BERM	LF	4,200.00	\$5.00	\$21,000.00	\$3.00	\$12,600.00	\$3.50	\$14,700.00
645.52	RYEGRASS FOR TEMPORARY EROSION CONTROL	LB	170.00	\$3.00	\$510.00	\$4.00	\$680.00	\$4.00	\$680.00
645.531	SILT FENCE	LF	4,200.00	\$2.50	\$10,500.00	\$2.50	\$10,500.00	\$2.50	\$10,500.00
645.7	STORM WATER POLLUTION PREVENTION PLAN	U	1.00	\$5,000.00	\$5,000.00	\$2,800.00	\$2,800.00	\$3,000.00	\$3,000.00
645.71	MONITORING SWPPP AND EROSION AND SEDIMENT CONTROLS	HR	100.00	\$80.00	\$8,000.00	\$82.00	\$8,200.00	\$65.00	\$6,500.00
646.2	TURF ESTABLISHMENT WITHOUT MULCH	A	4.20	\$1,200.00	\$5,040.00	\$1,100.00	\$4,620.00	\$1,100.00	\$4,620.00
647.1	HUMUS	CY	1,160.00	\$17.00	\$19,720.00	\$13.00	\$15,080.00	\$12.00	\$13,920.00
670.02	SEDIMENT SUMP MEASURING BLOCK	EA	1.00	\$700.00	\$700.00	\$365.00	\$365.00	\$1,000.00	\$1,000.00
670.104	TEMPORARY PORTABLE LIGHTING	U	1.00	\$4,000.00	\$4,000.00	\$11,000.00	\$11,000.00	\$2,000.00	\$2,000.00
692.	MOBILIZATION	U	1.00	\$125,000.00	\$125,000.00	\$82,000.00	\$82,000.00	\$285,000.00	\$285,000.00
697.11	INVASIVE SPECIES CONTROL AND MANAGEMENT PLAN	U	1.00	\$3,500.00	\$3,500.00	\$1,300.00	\$1,300.00	\$2,500.00	\$2,500.00
697.31	PROJECT OPERATIONS PLAN	U	1.00	\$3,500.00	\$3,500.00	\$11,000.00	\$11,000.00	\$5,000.00	\$5,000.00
698.13	FIELD OFFICE TYPE C	MON	6.00	\$1,500.00	\$9,000.00	\$2,050.00	\$12,300.00	\$2,000.00	\$12,000.00
699.	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	\$	10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00
1010.15	FUEL ADJUSTMENT	\$	20,000.00	\$1.00	\$20,000.00	\$1.00	\$20,000.00	\$1.00	\$20,000.00
1010.2	ASPHALT CEMENT ADJUSTMENT	\$	10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00
1010.3	QUALITY CONTROL QUALITY ASSURANCE (QC/QA) ASPHALT	\$	5,970.00	\$1.00	\$5,970.00	\$1.00	\$5,970.00	\$1.00	\$5,970.00
Totals:					\$1,409,360.50		\$1,488,252.90		\$1,640,841.50
Alt. Totals:									
Totals:					\$1,409,360.50		\$1,488,252.90		\$1,640,841.50

PS&E Comparison

AMHERST
 10136C
 X-A001(264)

Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
Items								
201.1	CLEARING AND GRUBBING (F)	A	1.10	\$12,000.00	\$13,200.00	\$13,500.00	\$14,850.00	(\$1,650.00)
201.881	INVASIVE SPECIES CONTROL TYPE I	SY	2,600.00	\$9.00	\$23,400.00	\$4.00	\$10,400.00	\$13,000.00
201.882	INVASIVE SPECIES CONTROL TYPE II	SY	450.00	\$9.00	\$4,050.00	\$6.50	\$2,925.00	\$1,125.00
202.41	REMOVAL OF EXISTING PIPE 0-24" DIAMETER	LF	300.00	\$19.00	\$5,700.00	\$25.00	\$7,500.00	(\$1,800.00)
202.5	REMOVAL OF CATCH BASINS, DROP INLETS, AND MANHOLES	EA	2.00	\$365.00	\$730.00	\$375.00	\$750.00	(\$20.00)
202.6	CURB REMOVAL FOR SALVAGE	LF	760.00	\$3.50	\$2,660.00	\$4.00	\$3,040.00	(\$380.00)
202.841	REMOVAL OF PULL BOX	EA	14.00	\$600.00	\$8,400.00	\$250.00	\$3,500.00	\$4,900.00
202.843	REMOVAL OF LIGHT POLE	U	6.00	\$800.00	\$4,800.00	\$800.00	\$4,800.00	\$0.00
203.1	COMMON EXCAVATION	CY	2,000.00	\$18.00	\$36,000.00	\$18.00	\$36,000.00	\$0.00
203.11	COMMON EXCAVATION - LRS	CY	1,900.00	\$22.00	\$41,800.00	\$25.00	\$47,500.00	(\$5,700.00)
203.2	ROCK EXCAVATION	CY	2,900.00	\$38.00	\$110,200.00	\$25.00	\$72,500.00	\$37,700.00
203.53	LOW PERMEABILITY FILL (F)	CY	95.00	\$56.00	\$5,320.00	\$20.00	\$1,900.00	\$3,420.00
203.6	EMBANKMENT-IN-PLACE (F)	CY	712.00	\$10.00	\$7,120.00	\$12.00	\$8,544.00	(\$1,424.00)
203.91	ROCK SCALING - HAND METHOD	HR	120.00	\$275.00	\$33,000.00	\$200.00	\$24,000.00	\$9,000.00

206.1	COMMON STRUCTURE EXCAVATION	CY	930.00	\$26.75	\$24,877.50	\$19.00	\$17,670.00	\$7,207.50
206.19	COMMON STRUCTURE EXCAVATION EXPLORATORY	CY	40.00	\$70.00	\$2,800.00	\$50.00	\$2,000.00	\$800.00
206.2	ROCK STRUCTURE EXCAVATION	CY	90.00	\$99.00	\$8,910.00	\$75.00	\$6,750.00	\$2,160.00
209.1	GRANULAR BACKFILL	CY	5.00	\$24.50	\$122.50	\$45.00	\$225.00	(\$102.50)
209.3	GRANULAR BACKFILL (SAND)	CY	280.00	\$24.00	\$6,720.00	\$45.00	\$12,600.00	(\$5,880.00)
214.	FINE GRADING	U	1.00	\$25,000.00	\$25,000.00	\$15,000.00	\$15,000.00	\$10,000.00
304.1	SAND (F)	CY	2,084.00	\$24.00	\$50,016.00	\$18.00	\$37,512.00	\$12,504.00
304.2	GRAVEL (F)	CY	1,331.00	\$26.00	\$34,606.00	\$30.00	\$39,930.00	(\$5,324.00)
304.3	CRUSHED GRAVEL (F)	CY	776.00	\$31.40	\$24,366.40	\$40.00	\$31,040.00	(\$6,673.60)
304.4	CRUSHED STONE (FINE GRADATION) (F)	CY	129.00	\$38.00	\$4,902.00	\$25.00	\$3,225.00	\$1,677.00
403.11002	HOT BITUMINOUS PAVEMENT, MACHINE METHOD (QC/QA TIER 2)	TON	800.00	\$83.00	\$66,400.00	\$80.00	\$64,000.00	\$2,400.00
403.11902	HBP - MACHINE METHOD, HIGH STRENGTH (QC/QA TIER 2)	TON	570.00	\$90.00	\$51,300.00	\$90.00	\$51,300.00	\$0.00
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	TON	240.00	\$120.00	\$28,800.00	\$150.00	\$36,000.00	(\$7,200.00)
403.6	PAVEMENT JOINT ADHESIVE	LF	7,700.00	\$0.40	\$3,080.00	\$0.28	\$2,156.00	\$924.00
410.22	ASPHALT EMULSION FOR TACK COAT	GAL	400.00	\$4.00	\$1,600.00	\$8.00	\$3,200.00	(\$1,600.00)
417.	COLD PLANING BITUMINOUS SURFACES	SY	3,700.00	\$3.00	\$11,100.00	\$3.50	\$12,950.00	(\$1,850.00)
520.1	CONCRETE CLASS A	CY	2.00	\$870.00	\$1,740.00	\$850.00	\$1,700.00	\$40.00
585.3	STONE FILL, CLASS C	CY	40.00	\$55.00	\$2,200.00	\$50.00	\$2,000.00	\$200.00
593.421	GEOTEXTILE; PERM CONTROL CL.2, NON- WOVEN	SY	190.00	\$3.30	\$627.00	\$5.00	\$950.00	(\$323.00)
593.521	PVC GEOMEMBRANE LINER (40 MIL)	SY	660.00	\$10.15	\$6,699.00	\$10.00	\$6,600.00	\$99.00
603.0001	VIDEO INSPECTION	LF	1,030.00	\$3.30	\$3,399.00	\$3.00	\$3,090.00	\$309.00
603.00215	15" R.C. PIPE, 2000D	LF	130.00	\$55.00	\$7,150.00	\$50.00	\$6,500.00	\$650.00
603.00218	18" R.C. PIPE, 2000D	LF	130.00	\$60.00	\$7,800.00	\$65.00	\$8,450.00	(\$650.00)

603.00315	15" R.C. PIPE, 3000D	LF	80.00	\$145.00	\$11,600.00	\$61.00	\$4,880.00	\$6,720.00
603.30115	15" R.C. END SECTIONS	EA	1.00	\$960.00	\$960.00	\$500.00	\$500.00	\$460.00
603.30118	18" R.C. END SECTIONS	EA	1.00	\$1,015.00	\$1,015.00	\$800.00	\$800.00	\$215.00
603.82212	12" PE PIPE (TYPE S)	LF	110.00	\$45.00	\$4,950.00	\$55.00	\$6,050.00	(\$1,100.00)
603.82215	15" PE PIPE (TYPE S)	LF	40.00	\$48.00	\$1,920.00	\$60.00	\$2,400.00	(\$480.00)
604.0007	POLYETHYLENE LINER	EA	10.00	\$180.00	\$1,800.00	\$160.00	\$1,600.00	\$200.00
604.124	CATCH BASINS TYPE B, 4-FOOT DIAMETER	U	13.00	\$3,360.00	\$43,680.00	\$2,500.00	\$32,500.00	\$11,180.00
604.324	DRAINAGE MANHOLES, 4-FOOT DIAMETER	U	2.00	\$3,150.00	\$6,300.00	\$3,000.00	\$6,000.00	\$300.00
604.4	RECONSTRUCTING/ADJUSTING CATCH BASIN & DROP INLET	LF	25.00	\$420.00	\$10,500.00	\$440.00	\$11,000.00	(\$500.00)
604.9101	OUTLET CONTROL STRUCTURE	U	1.00	\$4,450.00	\$4,450.00	\$7,500.00	\$7,500.00	(\$3,050.00)
605.518	18" PERF. CORR. POLYETHYLENE PIPE UNDERDRAIN	LF	380.00	\$50.00	\$19,000.00	\$70.00	\$26,600.00	(\$7,600.00)
605.524	24" PERF. CORR. POLYETHYLENE PIPE UNDERDRAIN	LF	180.00	\$55.00	\$9,900.00	\$90.00	\$16,200.00	(\$6,300.00)
606.417	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL	LF	950.00	\$43.75	\$41,562.50	\$25.00	\$23,750.00	\$17,812.50
606.9513	TEMP. IMPACT ATTENUATION DEVICE (REDIRECTIVE), TEST LEVEL 3	U	1.00	\$5,500.00	\$5,500.00	\$10,000.00	\$10,000.00	(\$4,500.00)
607.350	CHAIN LINK FENCE WITH VINYL COATED STEEL FABRIC, 5' HIGH	LF	450.00	\$22.70	\$10,215.00	\$28.00	\$12,600.00	(\$2,385.00)
607.4350	POST ASSEMBLIES FOR CHAIN LINK FENCE WITH VINYL CTD STL FABRIC, 5' HIGH	EA	11.00	\$165.00	\$1,815.00	\$120.00	\$1,320.00	\$495.00
607.5180	WOOD FENCE (STOCKADE), 8'-0" HIGH	LF	590.00	\$39.20	\$23,128.00	\$30.00	\$17,700.00	\$5,428.00
607.73518	18' OPENING DOUBLE GATE, CHAIN LINK VINYL COATED STEEL FABRIC, 5' HIGH	U	1.00	\$1,740.00	\$1,740.00	\$1,800.00	\$1,800.00	(\$60.00)
608.26	6" CONCRETE SIDEWALK (F)	SY	7.00	\$85.00	\$595.00	\$55.00	\$385.00	\$210.00
609.01	STRAIGHT GRANITE CURB	LF	340.00	\$25.00	\$8,500.00	\$30.00	\$10,200.00	(\$1,700.00)
609.214	STRAIGHT GRANITE SLOPE CURB, 4" HIGH	LF	680.00	\$22.00	\$14,960.00	\$20.00	\$13,600.00	\$1,360.00
609.224	STRAIGHT GRANITE SLOPE CURB WITH RADIAL JOINTS, 4" HIGH	LF	20.00	\$22.00	\$440.00	\$25.00	\$500.00	(\$60.00)

609.234	CURVED GRANITE SLOPE CURB 4" HIGH	LF	10.00	\$82.00	\$820.00	\$75.00	\$750.00	\$70.00
609.5	RESET GRANITE CURB	LF	760.00	\$13.40	\$10,184.00	\$15.00	\$11,400.00	(\$1,216.00)
614.331	3" STEEL CONDUIT	LF	110.00	\$40.00	\$4,400.00	\$55.00	\$6,050.00	(\$1,650.00)
614.523	MOLDED PULL BOX 17"X30"	EA	4.00	\$2,500.00	\$10,000.00	\$750.00	\$3,000.00	\$7,000.00
614.73114	3" PVC CONDUIT, SCHEDULE 40	LF	360.00	\$25.00	\$9,000.00	\$24.00	\$8,640.00	\$360.00
614.73118	3" PVC CONDUIT, SCHEDULE 80	LF	230.00	\$30.00	\$6,900.00	\$26.00	\$5,980.00	\$920.00
615.02201	TRAFFIC SIGN TYPE B, BREAKAWAY MOUNTS	SF	60.00	\$135.00	\$8,100.00	\$165.00	\$9,900.00	(\$1,800.00)
615.023	REMOVING TRAFFIC SIGN TYPE B	U	2.00	\$75.00	\$150.00	\$75.00	\$150.00	\$0.00
615.0301	TRAFFIC SIGN TYPE C	SF	110.00	\$92.00	\$10,120.00	\$53.00	\$5,830.00	\$4,290.00
615.033	REMOVING TRAFFIC SIGN, TYPE C	U	19.00	\$35.00	\$665.00	\$50.00	\$950.00	(\$285.00)
615.0401	TRAFFIC SIGN TYPE AA	SF	210.00	\$37.00	\$7,770.00	\$40.00	\$8,400.00	(\$630.00)
615.043	REMOVING TRAFFIC SIGN TYPE AA	U	2.00	\$450.00	\$900.00	\$300.00	\$600.00	\$300.00
615.0501	TRAFFIC SIGN TYPE BB	SF	4.00	\$12.00	\$48.00	\$19.00	\$76.00	(\$28.00)
615.0601	TRAFFIC SIGN TYPE CC	SF	60.00	\$9.00	\$540.00	\$15.00	\$900.00	(\$360.00)
618.61	UNIFORMED OFFICERS WITH VEHICLE	\$	73,000.00	\$1.00	\$73,000.00	\$1.00	\$73,000.00	\$0.00
618.7	FLAGGERS	HR	2,070.00	\$30.00	\$62,100.00	\$25.00	\$51,750.00	\$10,350.00
619.1	MAINTENANCE OF TRAFFIC	U	1.00	\$80,000.00	\$80,000.00	\$50,000.00	\$50,000.00	\$30,000.00
619.25	PORTABLE CHANGEABLE MESSAGE SIGN	U	4.00	\$1,650.00	\$6,600.00	\$5,100.00	\$20,400.00	(\$13,800.00)
621.31	SINGLE DELINEATOR WITH POST	EA	30.00	\$35.00	\$1,050.00	\$35.00	\$1,050.00	\$0.00
622.1	STEEL WITNESS MARKERS	EA	10.00	\$35.00	\$350.00	\$30.00	\$300.00	\$50.00
625.2	CONCRETE LIGHT POLE BASES, TYPE B	EA	2.00	\$2,650.00	\$5,300.00	\$2,000.00	\$4,000.00	\$1,300.00
625.55140	LIGHT POLE WITH LED LUMINAIRE (40' TALL, SINGLE HEAD)	EA	3.00	\$6,500.00	\$19,500.00	\$3,500.00	\$10,500.00	\$9,000.00
628.2	SAWED BITUMINOUS PAVEMENT	LF	1,400.00	\$1.50	\$2,100.00	\$1.50	\$2,100.00	\$0.00

632.0104	RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE	LF	6,500.00	\$0.35	\$2,275.00	\$0.25	\$1,625.00	\$650.00
632.1104	PREFORMED RETROREFLECTIVE TAPE, TYPE I (REMOVABLE) 4" LINE	LF	3,400.00	\$2.00	\$6,800.00	\$1.50	\$5,100.00	\$1,700.00
632.3104	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 4" LINE	LF	1,600.00	\$2.00	\$3,200.00	\$1.00	\$1,600.00	\$1,600.00
632.3108	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 8" LINE	LF	410.00	\$4.00	\$1,640.00	\$1.75	\$717.50	\$922.50
632.3118	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 18" LINE	LF	30.00	\$8.00	\$240.00	\$5.00	\$150.00	\$90.00
632.32	RETROREFLECT. THERMOPLAS. PAVEMENT MARKING, SYMBOL OR WORD	SF	160.00	\$11.00	\$1,760.00	\$7.00	\$1,120.00	\$640.00
643.21	FERTILIZER FOR REFERTILIZATION	LB	3,600.00	\$0.50	\$1,800.00	\$2.50	\$9,000.00	(\$7,200.00)
644.62	WET BASIN/MEADOW SEED TYPE 62	LB	80.00	\$190.00	\$15,200.00	\$250.00	\$20,000.00	(\$4,800.00)
645.119	MULCH WITH TACKIFIERS	A	4.20	\$950.00	\$3,990.00	\$1,100.00	\$4,620.00	(\$630.00)
645.3	EROSION STONE	TON	470.00	\$27.00	\$12,690.00	\$30.00	\$14,100.00	(\$1,410.00)
645.45	PERMANENT CHANNEL MATTING TYPE A	SY	920.00	\$6.00	\$5,520.00	\$3.50	\$3,220.00	\$2,300.00
645.512	COMPOST SOCK FOR PERIMETER BERM	LF	4,200.00	\$3.00	\$12,600.00	\$5.00	\$21,000.00	(\$8,400.00)
645.52	RYEGRASS FOR TEMPORARY EROSION CONTROL	LB	170.00	\$4.00	\$680.00	\$3.00	\$510.00	\$170.00
645.531	SILT FENCE	LF	4,200.00	\$2.50	\$10,500.00	\$2.50	\$10,500.00	\$0.00
645.7	STORM WATER POLLUTION PREVENTION PLAN	U	1.00	\$2,800.00	\$2,800.00	\$5,000.00	\$5,000.00	(\$2,200.00)
645.71	MONITORING SWPPP AND EROSION AND SEDIMENT CONTROLS	HR	100.00	\$82.00	\$8,200.00	\$80.00	\$8,000.00	\$200.00
646.2	TURF ESTABLISHMENT WITHOUT MULCH	A	4.20	\$1,100.00	\$4,620.00	\$1,200.00	\$5,040.00	(\$420.00)
647.1	HUMUS	CY	1,160.00	\$13.00	\$15,080.00	\$17.00	\$19,720.00	(\$4,640.00)
670.02	SEDIMENT SUMP MEASURING BLOCK	EA	1.00	\$365.00	\$365.00	\$700.00	\$700.00	(\$335.00)
670.104	TEMPORARY PORTABLE LIGHTING	U	1.00	\$11,000.00	\$11,000.00	\$4,000.00	\$4,000.00	\$7,000.00
692.	MOBILIZATION	U	1.00	\$82,000.00	\$82,000.00	\$125,000.00	\$125,000.00	(\$43,000.00)

697.11	INVASIVE SPECIES CONTROL AND MANAGEMENT PLAN	U	1.00	\$1,300.00	\$1,300.00	\$3,500.00	\$3,500.00	(\$2,200.00)
697.31	PROJECT OPERATIONS PLAN	U	1.00	\$11,000.00	\$11,000.00	\$3,500.00	\$3,500.00	\$7,500.00
698.13	FIELD OFFICE TYPE C	MON	6.00	\$2,050.00	\$12,300.00	\$1,500.00	\$9,000.00	\$3,300.00
699.	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	\$	10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00	\$0.00
1010.15	FUEL ADJUSTMENT	\$	20,000.00	\$1.00	\$20,000.00	\$1.00	\$20,000.00	\$0.00
1010.2	ASPHALT CEMENT ADJUSTMENT	\$	10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00	\$0.00
1010.3	QUALITY CONTROL QUALITY ASSURANCE (QC/QA) ASPHALT	\$	5,970.00	\$1.00	\$5,970.00	\$1.00	\$5,970.00	\$0.00
Total:					\$1,488,252.90	\$1,409,360.50	\$78,892.40	

