STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

January 3, 2020

Addendum No. 1

Contract No.: DA00477

WBS Element: 2020CPT.01.09.10271.1 & 2020CPT.01.09.20271.1

Milling, OGAFC & Resurfacing of US 158 and a portion of SR 1222 (Tulls Creek Rd.), in Currituck County

To Whom It May Concern:

Reference is made to the proposal and plans previously furnished for this project.

The following revision has been made to the proposal and plans:

Page 5, "Intermediate Contract Time Number 1 & Liquidated Damages" has been revised to adjust the Date of Availability and Completion Date. Please replace the original Page 5, "Intermediate Contract Time Number 1 & Liquidated Damages" with the attached revised Page 5, "Intermediate Contract Time Number 1 & Liquidated Damages".

Page 33A – 33B, "Fine Milling" has been included in the proposal. Please insert Page 33A – 33B, "Fine Milling", in the appropriate location.

Pages 73 - 74, "Bid Form" has been revised to include a "Fine Milling" line item, adjust the pavement marking quantities and revise the thickness of the "Hot Sprayed Thermoplastic". Please replace the original Pages 73 - 74, "Bid Form" with the attached revised Pages 73 - 74, "Bid Form".

Plan Sheet 5, "Summary of Quantities" has been revised to include a "Fine Milling" line item and adjust the pavement marking quantities. Please replace the original Plan Sheet 5, "Summary of Quantities" with the attached revised Plan Sheet 5, "Summary of Quantities".

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
DIVISION ONE
113 AIRPORT DRIVE, SUITE 100
EDENTON, NC 27932

Telephone: (252) 482-1850
Fax: (252) 482-8722
Customer Service: 1-877-368-4968

Website: www.ncdot.gov

Location:
113 AIRPORT DRIVE, SUITE 100
EDENTON, NC 27932

The amended EBS File (DA00477.001x) has been uploaded. We apologize for any inconvenience.

Sincerely,

DocuSigned by:
CDAEAC77A6394FB...

C. E. Slachta
Division Proposals Engineer

Cc: J. D. Jennings, PE
C. W. Bridgers Jr., PE
G. A. Byrum, PE
R. W. Midgett, PE
D. B. Otts, PE

PROJECT SPECIAL PROVISIONS

BOND REQUIREMENTS:

(06-01-16) 102-8, 102-10 SPD 01-420A

A Bid Bond is required in accordance with Article 102-10 of the *2018 Standard Specifications for Roads and Structures.*

Contract Payment and Performance Bonds are required in accordance with Article 103-7 of the *2018 Standard Specifications for Roads and Structures*.

CONTRACT TIME AND LIQUIDATED DAMAGES:

(7-1-95) (Rev. 12-18-07) 108 SP1 G10 A

The date of availability for this contract is **July 1, 2020.**

The completion date for this contract is **December 3, 2021**.

Except where otherwise provided by the contract, observation periods required by the contract will not be a part of the work to be completed by the completion date and/or intermediate contract times stated in the contract. The acceptable completion of the observation periods that extend beyond the final completion date shall be a part of the work covered by the performance and payment bonds.

The liquidated damages for this contract are **Five Hundred Dollars ($ 500.00)** per calendar day.

INTERMEDIATE CONTRACT TIME NUMBER 1 AND LIQUIDATED DAMAGES:

The Contractor shall not perform any work on **US 158** during the following time restrictions:

DAY AND TIME RESTRICTIONS

JUNE 1st FROM THIRTY (30) MINUTES BEFORE SUNSET
TO THIRTY (30) MINUTES AFTER SUNRISE **SEPTEMBER 1st**

The time of availability for this intermediate contract work shall be the time the Contractor begins to install all traffic control devices for lane closures according to the time restrictions listed herein.

The completion time for this intermediate contract work shall be the time the Contractor is required to complete the removal of all traffic control devices for lane closures according to the time restrictions stated above and place traffic in the existing traffic pattern.

The liquidated damages are **Five Hundred Dollars** ($ **500.00**) per hour.

FINE MILLING:

(8-9-13) 607 SPI 6-17

Description

This work includes fine milling of existing asphalt concrete pavement to remove the existing Ultra-thin Bonded Wearing Course as indicated in the Plans and as directed by the Engineer. The fine milled surface shall provide a texture suitable for use as a temporary riding surface and an immediate overlay with Ultra-thin Bonded Wearing Course with no further treatment or overlays.

Construction Method

(A) Equipment

Use power-driven, self-propelled fine-milling equipment possessing the size and shape to allow traffic safe passage through areas adjacent to the work. Also, ensure the fine-milling equipment will be:

(1) Equipped with a cutting mandrel with carbide or equivalent tipped cutting teeth designed for fine-milling (5/16 inch spacing) bituminous pavement full lane width to close tolerances.
(2) Equipped with grade and slope controls operating from a string line or ski and based on mechanical or sonic operation.
(3) Capable of removing pavement to an accuracy of 3/8 in.
(4) Furnished with a lighting system for night work, as necessary.
(5) Provided with conveyors capable of side, rear, or front loading to transfer the milled material from the roadway to a truck.

(B) Fine Milling Operation

Follow the Plans to fine-mill the designated areas and depths, as required. Ensure the following requirements are met:

(1) Ensure fine-milling methods produce a uniform finished surface and maintain a constant cross slope between extremities in each lane.
(2) Provide positive drainage to prevent water accumulation on the fine-milled pavement, as shown on the Plans or directed by the Engineer.
(3) Bevel back the longitudinal vertical edges greater than 2 inch produced by the removal process and left exposed to traffic. Bevel the vertical edges back at least 3 inch for each 2 inch of material removed. Use an attached mold board or other approved method.
(4) Taper the transverse edges 10 feet to avoid creating a traffic hazard and to produce a smooth surface when removing material at ramp areas and ends of milled sections.
(5) Protect with a temporary asphaltic concrete tie-in (paper joint) vertical edges at other areas such as bridge approach slabs, drainage structures, and utility appurtenances greater than 1/2 inch areas left open to transversing vehicles. Place the temporary tie-in at taper rate of at least 6 to 1 horizontal to vertical distance.

(6) Remove dust, residue, and loose milled material from the fine-milled surface. Do not allow traffic on the milled surface and do not place asphaltic concrete on the milled surface until removal is complete.

(C) Quality Acceptance

Provide a fine-milled test section of a minimum of 400 feet in length for approval by the Engineer to ensure the fine milling operation provides a surface texture suitable as a temporary riding surface using a fine milling drum with adequate bit spacing and wrap configuration and proper forward cutting speed.

Ensure the fine-milling operation produces a uniform pavement texture true to line, grade, and cross section.

Fine-mill additional depth to eliminate excessive scabbing of the in place material as directed by the Engineer.

Fine-milled pavement surfaces are subject to visual and straightedge inspections. Ensure a 10 ft. straightedge is kept at the fine-milling operation to measure surface irregularities of the milled pavement surface.

Ensure the cross slope is uniform and no depressions or slope misalignments greater than 1/4 inch per 12 foot exist when the slope is tested with a straightedge placed perpendicular to the center line.

Measurement and Payment

Fine Milling will be measured and paid as the actual number of square yards of pavement surface milled in accordance with this Specification. In measuring this quantity, the length will be the actual length milled, measured along the pavement surface. The width will be the width required by the plans or directed, measured along the pavement surface. Such price and payment will be full compensation for furnishing equipment, fine-milling, hauling, stockpiling milled material, and satisfactorily performing the work.

Payment will be made under:

Pay Item	**Pay Unit**
Fine Milling (3/4”)	Square Yard

County : Currituck

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
			ROADWAY ITEMS			
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	1220000000-E	545	INCIDENTAL STONE BASE	20 TON		
0003	1297000000-E	607	MILLING ASPHALT PAVEMENT, ***" DEPTH (1.5")	45,599 SY		
0004	1330000000-E	607	INCIDENTAL MILLING	1,846 SY		
0005	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	3,965 TON		
0006	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	266 TON		
0007	1577000000-E	620	POLYMER MODIFIED ASPHALT BIN-DER FOR PLANT MIX	1,165 TON		
0008	1662000000-E	650	OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-1 MODIFIED	19,101 TON		
0009	1840000000-E	665	MILLED RUMBLE STRIPS (ASPHALT CONCRETE)	112,358 LF		
0010	1880000000-E	SP	GENERIC PAVING ITEM (FULL DEPTH PATCHING, 0-5")	677 TON		
0011	1880000000-E	SP	GENERIC PAVING ITEM (MILL PATCHING, 0-2.5")	250 TON		
0012	1891000000-E	SP	GENERIC PAVING ITEM (FINE MILLING, 3/4")	424,465 SY		
0013	4413000000-E	SP	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	1,512 SF		
0014	4457000000-N	SP	TEMPORARY TRAFFIC CONTROL	Lump Sum	L.S.	
0015	4688000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS)	140,448 LF		
0016	4690000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (6", 120 MILS)	280,896 LF		
0017	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	382 EA		

County : Currituck

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0018	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	346,447 LF		
0019	4830000000-E	1205	PAINT PAVEMENT MARKING LINES (16")	40 LF		
0020	4835000000-E	1205	PAINT PAVEMENT MARKING LINES (24")	130 LF		
0021	4840000000-N	1205	PAINT PAVEMENT MARKING CHARAC-TER (RXR)	2 EA		
0022	4845000000-N	1205	PAINT PAVEMENT MARKING SYMBOL	382 EA		
0023	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM (HOT SPRAYED THERMO 4" 50MILS)	65,551 LF		
0024	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM (THERMO LINES, 16" 90 MILS)	40 LF		
0025	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM (THERMO LINES, 24" 90 MILS)	130 LF		
0026	4895000000-N	SP	GENERIC PAVEMENT MARKING ITEM (THERMO CHARACTER, 90 MILS, RX R)	2 EA		
0027	4905000000-N	1253	SNOWPLOWABLE PAVEMENT MARKERS	2,810 EA		
0028	6000000000-E	1605	TEMPORARY SILT FENCE	200 LF		
0029	6071012000-E	SP	COIR FIBER WATTLE	100 LF		
0030	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	400 LF		
0031	7456000000-E	1726	LEAD-IN CABLE (**********) (14-2)	100 LF		

PROJECT NO.	SHEET NO.
2020CPT.01.09.10271.1, ETC.	5

REVISED: 01/03/2020

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	MTV REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	MOBILIZATION	INCIDENTAL STONE BASE	MILLING ASPHALT PAVEMENT (1½")	FINE MILLING (3/4")	INCIDENTAL MILLING	ASP CONC SURFACE CRS, S9.5B	ASPHALT BINDER FOR PLANT MIX	POLYMER MODIFIED ASP BINDER FOR PLANT MIX	OGAFC, TYPE FC-1 MODIFIED	MILLED RUMBLE STRIPS (ASPHALT CONCRETE)	GENERIC PAVING ITEM (MILL PATCHING 0-2.5")	GENERIC PAVING ITEM (FULL DEPTH PATCHING 0-5")	TEMPORARY SILT FENCE	COIR FIBER WATTLE	WORK ZONE ADV/GEN WARNING SIGNS	TEMPORARY TRAFFIC CONTROL	INDUCTIVE LOOP SAWCUT	LEAD IN CABLE (14-2)	6" X 90 MIL WHITE THERMO	6" X 120 MIL YELLOW THERMO	THERMO SYMBOL (LT ARROW, 90 MILS)	4" WHITE PAINT	4" YELLOW PAINT	PAINT PAVEMENT MARKING LINES, 16"	PAINT PAVEMENT MARKING LINES, 24"	PAINT PAVEMENT MARKING CHARACTER (RxR)	PAINT PAVEMENT MARKING SYMBOLS (LT ARROW)	GENERIC PAVEMENT MARKING ITEM (THERMO LINES, 16" 90 MILS)	GENERIC PAVEMENT MARKING ITEM (THERMO LINES, 24" 90 MILS)	GENERIC PAVEMENT MARKING ITEM (HOT SPRAYED THERMO, 4" 50 MILS WHITE)	GENERIC PAVEMENT MARKING ITEM (HOT SPRAYED THERMO, 4" 50 MILS YELLOW)	GENERIC PAVEMENT MARKING ITEM (THERMO CHARACTER, 90 MILS, RxR)	SNOW PLOWABLE MARKERS
											MI	FT	LS	TONS	SY	SY	SY	TON	TON	TON	TON	LF	TON	LF	LF	SF	EA	LF	LF	LF	LF	EA	EA	LF	LF	EA	EA										
2020CPT.01.09.10271.1	Currituck	1	US 158	FROM SR 1127 TO WRIGHT MEMORIAL BRIDGE	1	5	MU	NO	YES	NO	10.64	68	1			424,465	272				1,165	19,101	112,358	250			1,330	1			140,448	280,896	374	140,448	140,448				374										2,810
2020CPT.01.09.20271.1	Currituck	2	SR 1222	FROM HWY 168 TO SR 1214	1	2	2WU	NO	NO	NO	3.25	24	*	20	45,599		1,574	3,965	266					677	200	100	182	*	400	100.00			8	37,237	28,314	40	130	2	8	40	130	37,237	28,314	2		
GRAND TOTAL											**13.89**		**1**	**20**	**45,599**	**424,465**	**1,846**	**3,965**	**266**	**1,165**	**19,101**	**112,358**	**250**	**677**	**200**	**100**	**1,512**	**1**	**400**	**100**	**421,344**		**382**	**346,447**		**40**	**130**	**2**	**382**	**40**	**130**	**65,551**		**2**	**2,810**