

Slate Rock and Gravel Company

1960 Gravel Pitt Road • Bedrock, North Carolina 01966

(123) 437-7890

February 29, 2020

NCDOT

Attn: Fred Flagstone, PE

26 Water Buffalo Street

Stone Age, North Carolina 40166

Re: C987654/B-1960C – Rock County (Division 15)

Lodge Bridge Rehabilitation

Value Engineering Proposal

Note: There is a new VEP Submittal Form that will be required starting January 1, 2021.

This sample VEP is being provided to demonstrate how the information contained in a traditional VEP is streamlined in the new form, for ease of compiling information and review. The new form is to be completed by the Contractor and serve as the VEP submission, with attachments added, as necessary.

Dear Mr. Flagstone:

Slate Rock and Gravel Company would like to propose value engineering at the plan locations of Retaining Walls One, Two, Six and Seven on this project. The original design is to construct Wall One and Two as Cast in Place and Wall Six and Seven as Soldier Pile walls. The NCDOT would incur a \$2,227,239 cost to construct these walls as well as disrupting the traffic flow 24 hours a day for an extended time. Slate Rock and Gravel Company is purposing that the Retaining Walls One, Two, Six and Seven are eliminated and replaced with Rock Embankments with a small Soldier Pile Wall at Sta 125+00 to 126+00. This would provide the NCDOT with a cost savings of \$1,600,739 as well as limit the traffic disruptions to the public. We have included line item costs for your review.

Please feel free to contact me with any questions. Thank you for your consideration in this matter.

Thank you

George Slate

George Slate, PE

Project Manager

NCDOT PROJECT 987654- Lodge Bridge Rehabilitation

Rock County (Division 15)

ORIGINAL DESIGN PROJECTED COST

LINE ITEM	QTY.	UNIT	DESCRIPTION	UNIT PRICE	UNIT COST
5	806	CY	UNCLASSIFIED EXCAVATION	\$ 13.00	\$ 10,478.00
13	6645	SF	TEMPORARY SHORING	\$ 60.00	\$ 398,700.00
86	564	LF	TEMPORARY STEEL BEAM GUARDRAIL	\$ 12.00	\$ 6,768.00
88	2	EA	TEMPORARY STEEL BEAM GUARDRAIL END UNITS TL-3	\$ 2,300.00	\$ 4,600.00
93	96	SF	WORK ZONE SIGNS (STATIONARY)	\$ 12.00	\$ 1,152.00
97	1	EA	TEMPORARY PORTABLE TRAFFIC SIGNAL SYSTEM	\$ 28,000.00	\$ 28,000.00
102	6	EA	TEMPORARY CRASH CUSHIONS	\$ 6,500.00	\$ 39,000.00
103	2	EA	REMOVE & RESET TEMPORARY CRASH CUSHIONS	\$ 3,000.00	\$ 6,000.00
105	1524	LF	PORTABLE CONCRETE BARRIER	\$ 25.00	\$ 38,100.00
106	696	LF	REMOVE & RESET PORTABLE CONCRETE BARRIER	\$ 8.00	\$ 5,568.00
116	9652	LF	PAINT PAVEMENT MARKING LINES (4")	\$ 0.25	\$ 2,413.00
178	4726	SF	SOLDIER PILE RETAINING WALLS	\$ 160.00	\$ 756,160.00
179	6645	SF	CIP GRAVITY RETAINING WALLS	\$ 140.00	\$ 930,300.00

\$ 2,227,239.00

V.E. DESIGN PROJECTED COST

LINE ITEM	QTY.	UNIT	DESCRIPTION	UNIT PRICE	UNIT COST
2	1	LS	CONST. SURVEYING/DRAWINGS	\$ 12,500.00	\$ 12,500.00
3	1	LS	GRADING	\$ 35,000.00	\$ 35,000.00
101	30	DAY	FLAGGER	\$ 250.00	\$ 7,500.00
185	4500	CY	ROCK EMBANKMENTS	\$ 95.00	\$ 427,500.00
178	900	SF	SOLDIER PILE RETAINING WALLS	\$ 160.00	\$ 144,000.00

\$626,500.00

NCDOT COST PER ORIGINAL DESIGN \$ 2,227,239.00

NCDOT COST PER VALUE ENGINEERING DESIGN \$ 626,500.00

TOTAL OVERALL SAVINGS BY VALUE ENGINEERING \$ 1,600,739.00

NCDOT PROJECT 987654- Lodge Bridge Rehabilitation Rock County (Division 15)

