



**North Carolina Department of Transportation**  
**Construction Unit - Value Management Office**  
**Value Engineering Proposal (VEP) - Submittal Form**



This form serves as statement that the modification request is being made as a VEP and summarizes the proposed VEP; add attachments, as necessary. See NCDOT Standard Specifications [§104-12](#) for VEP requirements. VEP should be submitted concurrently to the Resident Engineer, the State Value Management Engineer at [ValueManagementUnit@ncdot.gov](mailto:ValueManagementUnit@ncdot.gov), and Design-Build Unit (if applicable).

Section 1		Project Details			
Contract No.	987654	Resident		Contractor	
Let Date	October 2015	Name	Fred Flagstone, PE	Name	George Slate, PE
County/Division	Rock County Div 15	Contact	<a href="mailto:FFlagstone@ncdot.gov">FFlagstone@ncdot.gov</a> (987) 654-3210	Contact	<a href="mailto:GSlate@slaterock.com">GSlate@slaterock.com</a> (123) 437-7890
Project TIP No.	B-1960C	Project Name/ Description	Lodge Bridge Rehabilitation		
Section 2		Type of Proposal (CHECK ONE)			
<input checked="" type="checkbox"/> <b>PRELIMINARY</b>		<input type="checkbox"/> <b>FINAL</b>			
Description	OPTIONAL	Description	MANDATORY		
A Preliminary (concept) submittal <b>should include</b> :  <input type="checkbox"/> Sketches <input type="checkbox"/> Plan sheet markups (preferred) <input checked="" type="checkbox"/> Description of changes <input checked="" type="checkbox"/> Approximate cost savings (breakdown if available)  Acceptance of a preliminary proposal gives the contractor an approval of concept, but <b>formal acceptance for implementation can only be obtained through a final VEP.</b>		A Final Proposal must be in full compliance with NCDOT Standard Specifications and <b>must include</b> : <input type="checkbox"/> Design calculations (if applicable) <input type="checkbox"/> Modifications to Contract Plan Sheets <input type="checkbox"/> Changes to Contract Documents <input type="checkbox"/> Cost Savings Estimate based on Contract Line Items.  Once submitted, NCDOT reviews and decides acceptance. Only contractor-incurred costs (line items) can be included in VEP savings; Contractor is responsible for costs of developing VEP.			
Section 3		Description of Current Design & Change(s) Proposed			
Current Design	The original design is to construct Wall One and Two as Cast in Place and Wall Six and Seven as Soldier Pile walls.				
Proposed Change(s)	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.				
Cost/Time Savings (attach breakdown, if available)	Cost savings of \$1,600,739 (Breakdown Attached) Decreased schedule for task but no impact to overall project schedule.				
Impacted Plan Sheet(s)	Roadway Sheets 2 and 6			If plan sheet markups are not included as part of the VEP package, attach impacted plan sheets for ease of review.	
List the advantages and disadvantages of the proposed changes.	Limit the traffic disruptions to the public				

Contact the Value Management Office at [valuemanagementunit@ncdot.gov](mailto:valuemanagementunit@ncdot.gov), or (919) 707-6682 for questions.

# 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**

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