BID TABULATION
Bridge Repairs Annual Contract
IFB# 18017-AG

Item No.	Item Description	Reference Spec. Section	Approx. Quanity	Unit	Earley Marine Unit Price	Earley Marine Total Amount	T.J. Crooks Inc. Unit Price	T.J. Crooks Inc. Total Amount	The Marksmen Co. Unit Price	The Marksmen Co. Total Amount
	DECK REPAIRS									
	CONCRETE DECK REPAIRS									
1	Type A Milling	VDOT 412								
	A. 0.1 S.Y. - 5 S.Y.		100	s.y.	$75.00	$7,500.00	$45.00	$4,500.00	$30.00	$3,000.00
	B. 5.0 + S.Y.		100	s.y.	$50.00	$5,000.00	$30.00	$3,000.00	$30.00	$3,000.00
2	Type A Patching									
	A. 0.1 S.Y. - 5 S.Y.		100	s.y.	$285.00	$28,500.00	$350.00	$35,000.00	$200.00	$20,000.00
	B. 5.0 + S.Y.		100	s.y.	$250.00	$25,000.00	$250.00	$25,000.00	$200.00	$20,000.00
	2" to 3" repair depth; horizontal position									
3	Type B Patching									
	A. 0.1 S.Y. - 5 S.Y.		100	s.y	$550.00	$55,000.00	$750.00	$75,000.00	$700.00	$70,000.00
	B. 5.0 + S.Y.		100	s.y	$450.00	$45,000.00	$650.00	$65,000.00	$700.00	$70,000.00
	3" to 4" repair depth; horizontal position									
4	Type C Patching									
	A. 0.1 S.Y. - 5 S.Y.		100	s.y	$650.00	$65,000.00	$700.00	$70,000.00	$750.00	$75,000.00
	B. 5.0 + S.Y.		100	s.y	$600.00	$60,000.00	$600.00	$60,000.00	$750.00	$75,000.00
	8" to full depth of pavement; horizontal position									
5	Epoxy Mortor Patching	VDOT 412	25	gal.	$75.00	$1,875.00	$131.00	$3,275.00	$100.00	$2,500.00
6	Rout and Seal Cracks	VDOT 412	50	l.f.	$30.00	$1,500.00	$54.00	$2,700.00	$50.00	$2,500.00
7	Bridge Deck Grooving	VDOT 404	200	s.y.	$30.00	$6,000.00	$47.00	$9,400.00	$25.00	$5,000.00
8	Surface Preparation and Waterproofing of Bridge Deck	VDOT 416	100	s.y.	$40.00	$4,000.00	$50.00	$5,000.00	$75.00	$7,500.00
	Epoxy Resin and Waterproof membrane System A									
9	Bridge Deck Overlay Repairs	VDOT 412	1000	s.y.	$75.00	$75,000.00	$180.00	$180,000.00	$175.00	$175,000.00
	Deck material same as Type A, Type B, Type C path material; Overlay will be depth of 1.25"									
10	Replacement of damaged reinforcement and placement of new reinforcement	VDOT 406								
	A. Bare steel reinforcement		250	lb.	$3.00	$750.00	$8.00	$2,000.00	$5.00	$1,250.00
	B. Epoxy mortar patching		250	lb.	$5.00	$1,250.00	$12.00	$3,000.00	$0.01	$2.50
Item No.	Item Description	Reference Spec. Section	Approx. Quanity	Unit	Unit Price	Total Amount	Unit Price	Total Amount	Unit Price	Total Amount
	CONCRETE SUPERSTRUCTURE SURFACE REPAIRS OF RAISED MEDIANS, MEDIAN BARRIERS, PARAPETS, POSTS RAILS, CURBS AND SIDEWALK									
11	Type B Patching	VDOT 412	25	s.y.	$520.00	$13,000.00	$650.00	$16,250.00	$600.00	$15,000.00
	3" to 4" repair depth; horizontal & vertical position									
12	Epoxy Mortor Patching	VDOT 412	15	gal.	$75.00	$1,125.00	$225.00	$3,375.00	$75.00	$1,125.00
13	Rout and Seal Cracks	VDOT 412	100	l.f.	$45.00	$4,500.00	$60.00	$6,000.00	$85.00	$8,500.00
	RAILING AND PARAPET REPLACEMENT									
14	Concrete Parapet Replacement	VDOT 410	100	l.f.	$146.00	$14,600.00	$150.00	$15,000.00	$400.00	$40,000.00
	CONSTRUCTION JOINTS, EXPANSION JOINTS, OR EXPANSION JOINT DEVICES REPAIR/REPLACEMENTS									
15	Preformed elastomeric joint sealer	VDOT 420								
	A. 1 3/4" wide		100	l.f.	$50.00	$5,000.00	$83.00	$8,300.00	$100.00	$10,000.00
	B. 2" wide		100	l.f.	$60.00	$6,000.00	$89.00	$8,900.00	$100.00	$10,000.00
	C. 2 1/2" wide		100	l.f.	$75.00	$7,500.00	$93.00	$9,300.00	$100.00	$10,000.00
	D. 4" wide		100	l.f.	$90.00	$9,000.00	$151.00	$15,100.00	$125.00	$12,500.00
16	Seal construction joints	VDOT 212	100	l.f.	$50.00	$5,000.00	$40.00	$4,000.00	$85.00	$8,500.00
	A. Hot Pour, Class B									
	B. Silicone, Class A									
17	Concrete reconstructioin at expansion joints	VDOT 412								
	A. 0-25 L.F.		100	l.f.	$125.00	$12,500.00	$180.00	$18,000.00	$250.00	$25,000.00
	B. 25 + L.F.		100	l.f.	$115.00	$11,500.00	$170.00	$17,000.00	$250.00	$25,000.00
	2' wide, 8" depth									
18	Rapid cure silicon	VDOT 412								
	A. 0-25 L.F.		25	l.f.	$45.00	$1,125.00	$80.00	$2,000.00	$75.00	$1,875.00
	B. 25 + L.F.		100	l.f.	$30.00	$3,000.00	$70.00	$7,000.00	$75.00	$7,500.00
19	Asphalt sealer	VDOT 212								
	A. 0-25 L.F.		250	l.f.	$15.00	$3,750.00	$25.00	$6,250.00	$90.00	$22,500.00
	B. 25 + L.F.		100	l.f.	$10.00	$1,000.00	$20.00	$2,000.00	$125.00	$12,500.00
20	Replace elastomeric expansion dam	VDOT 421	150	l.f.	$40.00	$6,000.00	$160.00	$24,000.00	$150.00	$22,500.00
21	Elastomeric Expansion Dam (0"-2 ")	VDOT 421	150	l.f.	$140.00	$21,000.00	$165.00	$24,750.00	$300.00	$45,000.00
22	Elastomeric Expansion Dam (2"-3 ")	VDOT 421	150	l.f.	$143.00	$21,450.00	$170.00	$25,500.00	$300.00	$45,000.00
23	Elastomeric Expansion Dam (3"-4 ")	VDOT 421	150	l.f.	$148.00	$22,200.00	$175.00	$26,250.00	$300.00	$45,000.00

	SUPERSTRUCTURE REPAIRS									
	BEARING DEVICES AND ANCHORS REPAIR/REPLACEMENT									
24	Bearing Adjustment	VDOT 408	5	ea.	$1,200.00	$6,000.00	$500.00	$2,500.00	$5,000.00	$25,000.00
	Rocket type bearing 1.5' length and 1' wide		5	ea.	$1,200.00	$6,000.00	$500.00	$2,500.00	$5,000.00	$25,000.00
	Elastomeric bearing 2.5' length and 1' wide									
25	Sole plate slot elongation		10	ea.	$1,200.00	$12,000.00	$280.00	$2,800.00	$5,000.00	$50,000.00
	elastomeric bearing 2.5' length and 1' wide									
26	Anchor bolt replacement	VDOT 408	10	ea.	$1,150.00	$11,500.00	$250.00	$2,500.00	$1,500.00	$15,000.00
	elastomeric bearing 2.5' length and 1' wide									
27	Clean and paint bearings		20	ea.	$1,750.00	$35,000.00	$250.00	$5,000.00	$1,500.00	$30,000.00
	elastomeric bearing 2.5' length and 1' wide									
	CONCRETE BEAMS AND DIAPHRAGMS									
28	Type B Hand Patching	VDOT 412	25	s.y.	$500.00	$12,500.00	$650.00	$16,250.00	$1,500.00	$37,500.00
	3" to 4" repair depth; horizontal or vertical position									
29	Epoxy mortar patching		25	gal.	$75.00	$1,875.00	$220.00	$5,500.00	$75.00	$1,875.00
30	Rout and Seal Cracks		100	l.f.	$50.00	$5,000.00	$60.00	$6,000.00	$100.00	$10,000.00
31	Epoxy inject cracks		25	gal.	$200.00	$5,000.00	$200.00	$5,000.00	$100.00	$2,500.00
	STRUCTURAL STEEL BEAMS AND DIAPHRAGMS									
32	Replacement and repair of diaghragms, braces and stiffeners	VDOT 407								
	A. Steel cost		250	lb.	$4.00	$1,000.00	$8.00	$2,000.00	$10.00	$2,500.00
	B. Fabrication		250	lb.	$4.00	$1,000.00	$10.00	$2,500.00	$10.00	$2,500.00
	C. Erection		250	lb.	$6.00	$1,500.00	$20.00	$5,000.00	$20.00	$5,000.00
33	Painting of Steel	VDOT 411								
	A. Prepare and spot paint existing structure (Type A)		250	s.f.	$8.00	$2,000.00	$15.00	$3,750.00	$75.00	$18,750.00
	B. Prepare and spot paint existing structure (Type B)		250	s.f.	$15.00	$3,750.00	$25.00	$6,250.00	$75.00	$18,750.00
	SUBSTRUCTURE REPAIRS									
	CONCRETE SUBSTRUCTURE SURFACE REPAIR									
Item No.	Item Description	Reference Spec. Section	Approx. Quanity	Unit	Unit Price	Total Amount	Unit Price	Total Amount	Unit Price	Total Amount
34	Demolition	VDOT 412	100	s.f.	$10.00	$1,000.00	$60.00	$6,000.00	$100.00	$10,000.00
	3" to 4" repair depth; vertical or horizontal position									
35	Epoxy mortar patching	VDOT 412	100	gal.	$85.00	$8,500.00	$225.00	$22,500.00	$150.00	$15,000.00
36	Rout and Seal Cracks	VDOT 412	100	l.f.	$45.00	$4,500.00	$25.00	$2,500.00	$50.00	$5,000.00
37	Epoxy inject cracks		25	gal.	$175.00	$4,375.00	$200.00	$5,000.00	$50.00	$1,250.00
38	Grout injection	VDOT 218	50	c.y.	$800.00	$40,000.00	$225.00	$11,250.00	$250.00	$12,500.00
39	Replacement of damaged reinforcement and placement of new reinforcement	VDOT 406								
	A. Bare steel reinforcement		250	lb.	$3.00	$750.00	$10.00	$2,500.00	$5.00	$1,250.00
	B. Epoxy coated		250	lb.	$5.00	$1,250.00	$12.00	$3,000.00	$5.00	$1,250.00
40	Fiberglass Pile Jacketing (Diamater 18"-24")									
	Specifications will be on per job basis									
41	Pile Driving	VDOT 403								
	A. Timber Diamater (12 in)		200	l.f	$40.00	$8,000.00	$45.00	$9,000.00	$50.00	$10,000.00
	B. Concrete Square (12 in)		200	l.f	$225.00	$45,000.00	$150.00	$30,000.00	$250.00	$50,000.00
	D. Concrete Square (24 in)		200	l.f	$270.00	$54,000.00	$210.00	$42,000.00	$300.00	$60,000.00
	E. Steel H-Pile (12-14 in) ASTM A709 Grade 36		200	l.f	$95.00	$19,000.00	$105.00	$21,000.00	$100.00	$20,000.00
	Refer to VDOT Road and Bridge Specifications sections 236.02. In addition reinforcement steel will be applicable to the concrete cover required for reinforcing steel in Hydraulic Cement Concrete piles									
	TIMBER SUBSTRUCTURE REPAIR									
42	Remove/replacement of substructure timbers	VDOT 418	10	mfbm	$3,000.00	$30,000.00	$4,200.00	$42,000.00	$5,000.00	$50,000.00
43	Remove/replacement of substructure piles-ASTM D25	VDOT 418	250	l.f.	$40.00	$10,000.00	$50.00	$12,500.00	$60.00	$15,000.00
	Refer to item above, in addition to including removing hardware									
	CHANNEL/SLOPE PROTECTION									
	FENDER SYSTEM REPAIR									
44	Replacement of wales, braces, and blocking (includes all hardware)	VDOT 418	5	ea.	$3,000.00	$15,000.00	$4,000.00	$20,000.00	$3,500.00	$17,500.00
	Refer to specification 418.									
45	Install timber pile (typical length 60 ft.)	VDOT 418 VDOT 403	150	l.f.	$24.00	$3,600.00	$50.00	$7,500.00	$100.00	$15,000.00
	Refer to VDOT section 418 and 236									
46	Remove timber pile (typical length 60 ft.)	VDOT 418 VDOT 403	150	l.f.	$15.00	$2,250.00	$12.00	$1,800.00	$50.00	$7,500.00
	Refer to VDOT section 418 and 236									
47	Treatment of pile heads - Method A- Zinc coating	VDOT 418	5	ea.	$18.00	$90.00	$350.00	$1,750.00	$50.00	$250.00

	DRIVEN SHEET PILES										
48	Steel PZ-27 25'	VDOT 402	1000	s.f.	$20.00	$20,000.00	$40.00	$40,000.00	$75.00	$75,000.00
49	Temporary-PZ-27 25'	VDOT 402	1000	s.f.	$10.00	$10,000.00	$20.00	$20,000.00	$75.00	$75,000.00
	Refer to VDOT section 418 and 236									
	EMBANKMENT AND SLOPE PROTECTION									
50	Dumped Riprap	VDOT 414								
	A. Type I		25	ton	$170.00	$4,250.00	$190.00	$4,750.00	$185.00	$4,625.00
	B. Type II		25	ton	$175.00	$4,375.00	$200.00	$5,000.00	$185.00	$4,625.00
	Refer to VDOT 414									
51	Mortared Riprap- Class II Dry Rip Rap	VDOT 414	25	s.y.	$80.00	$2,000.00	$90.00	$2,250.00	$150.00	$3,750.00
52	Grouted Riprap-Class I Dry Rip Rap	VDOT 414	25	s.y	$80.00	$2,000.00	$105.00	$2,625.00	$150.00	$3,750.00
53	Erosion Control Stone	VDOT 414								
	A. Class I		5000	ton	$45.00	$225,000.00	$55.00	$275,000.00	$60.00	$300,000.00
	B. Class II		25	ton	$50.00	$1,250.00	$125.00	$3,125.00	$75.00	$1,875.00
	Refer to VDOT 414									
54	Erosion Control Riprap	VDOT 414	25	ton	$55.00	$1,375.00	$85.00	$2,125.00	$65.00	$1,625.00
	Refer to VDOT 414									
55	Concrete Riprap in Bags	VDOT 414	25	c.y.	$80.00	$2,000.00	$350.00	$8,750.00	$150.00	$3,750.00
56	Stone Riprap for Foundation Protection	VDOT 414	2000	ton	$30.00	$60,000.00	$40.00	$80,000.00	$55.00	$110,000.00
	Refer to VDOT 414									
57	Slope Protection	VDOT 415								
	A. Installation of concrete slab slope protection		25	s.y.	$200.00	$5,000.00	$210.00	$5,250.00	$500.00	$12,500.00
58	Placement of Structural Fill and compaction	VDOT 303	1000	c.y.	$20.00	$20,000.00	$27.00	$27,000.00	$50.00	$50,000.00
59	**PLEASE LEAVE BLANK**									
60	Waterway Debris Removal (Unclassified)		25	ton	$100.00	$2,500.00	$160.00	$4,000.00	$500.00	$12,500.00
	Shall be estimated utilizing a work platform or floatation device with piece of equipment capable to reach debris and remove from waterway.									
	MISC. REPAIRS/REPLACEMENTS									
	STRUCTURE EXCAVATION AND HAULING									
61	Hand	VDOT 401	25	c.y.	$50.00	$1,250.00	$100.00	$2,500.00	$500.00	$12,500.00
62	Machine		1000	ton	$8.00	$8,000.00	$12.00	$12,000.00	$75.00	$75,000.00
63	Hauling	VDOT 107	1000	ton	$6.00	$6,000.00	$10.00	$10,000.00	$75.00	$75,000.00
	MAINTAINING TRAFFIC									
64	Electronic arrow Board		100	day	$30.00	$3,000.00	$50.00	$5,000.00	$0.01	$1.00
65	Construction Surveying		20	hour	$130.00	$2,600.00	$180.00	$3,600.00	$125.00	$2,500.00
66	Outside Lane closure operation on a four lane roadway (TTC-16.0)	VWAPM	1	each	$1,000.00	$1,000.00	$2,000.00	$2,000.00	$3,000.00	$3,000.00
67	Inside Lane closure operation on a four lane roadway (TTC-17.0)	VWAPM	1	each	$1,250.00	$1,250.00	$2,000.00	$2,000.00	$3,000.00	$3,000.00
68	Lane closure on a two-lane roadway using flaggers (TTC-23.0)	VWAPM	1	each	$1,800.00	$1,800.00	$2,200.00	$2,200.00	$3,000.00	$3,000.00
69	Work operation in the vicinity of an exit ramp (TTC-37)	VWAPM	1	each	$1,000.00	$1,000.00	$2,400.00	$2,400.00	$3,000.00	$3,000.00
70	Truck mounted attenuator	VWAPM	1	each	$1,000.00	$1,000.00	$550.00	$550.00	$3,000.00	$3,000.00
	TOTAL BASE BID					**$1,288,715.00**		**$1,611,825.00**		**$2,272,128.50**