

STATE		FEDERAL AID		STATE	SHEET
STATE	ROUTE	PROJECT	ROUTE	PROJECT	N0.
VA.					I

Notes:

- I. Concrete in abutment shall be class A3 (f'c =3000psi).
- 2. Deformed reinforcment bars shall conform to ASTM A615, Grade 60. All reinforcing bar dimensions on the detailed drawings are to center of bars except where otherwise noted and are subject to fabrication and construction tolerances.
- 3. Mortar between masonry stones on reconstructed abutments shall be Type S (f'm = 1800psi).
- 4. Concrete armour for abutments shall rest on firm material.
- 5. Remove stones with care for abutment reconstruction in order to protect workers and avoid damage to stones.
- 6. Probe creek in vicinity of bridge to salvage all large facing stones available.
- Install sheeting, allowing minimum of 1'-6" from face of original abutment, embedded approximately 4'-0" below mud line.
- 8. Excavate approximately 2'-0" to 3'-0" of soil to firm material and de-water inside of sheeting.
- 9. Remove any loose masonry and stabilize any masonry with questionable support revealed through de-watering.
- 10. Place concrete along abutments as shown on the plans up to 5'-0" below the top of masonry abutment wall.
- II. Replace and rebuild east abutment breastwall one course at time, placing single row of stone inset 1'-6" around perimeter of armour, watching the original exterior face.
- 12. Replace any missing stones discovered on the east and west abutment breastwall.
- 13. Each stone shall be cleaned and moistened before placement and shall be set on a clean and well moistened mortar bed.
- Stones shall be gently placed with full mortar joints before mortar sets.
- 15. Following placement of each course of stone, concrete should be placed behind the stones filling to the undisturbed soil surface. The top course may require pumping the concrete or possibly finishing the placement with dry-packed concrete.
- 16. Repoint the east and west abutments.
- 17. After final inspection and approval of reconstructed bridge abutments remove temporary support.
- 18. NOVA Parks will hire a geotechnical engineer to verify the depth to firm soils. Any additional work necessary to achieve this depth will be considered a change to the original contract. The Contractor shall be responsible to coordinate when the geotechnical engineer will be on site.

INDEX OF SHEETS						
Sheet No.	Description					
I	Plan, General Notes, and Estimated Quantities					
2	East Abutment Repair I					
3	East Abutment Repair 2					
4	Reinforcing Schedule and Bar Bending Diagrams					

ESTIMATED QUANTITIES									
	Concrete Class A3	Reinforcing Steel	Struct. Excav.	Sheet Piles	Stone Masonry Abutment Reconstr.				
	СҮ	LB	CY	SF	SF				
East Abutment	6	434	6	188	79				
Total	6	434	6	188	79				

SION	NOVA PARKS	Plan No.	Sheet No.
	FOUR MILE RUN BRIDGE #2 PLAN AND ELEVATION	_	l of 4







Designed: RDG	STRUCTURE AND BRIDGE DIVISION	NOVA PARKS	Plan No.	Sheet No.
Drawn:CA	DATE:SEPT 2021	FOUR MILE RUN BRIDGE #2		
Checked: .ALC		EAST ABUTMENT REPAIR I		2 01 4

STATE		FEDERAL AID		STATE	SHEET
STATE	ROUTE	PROJECT	ROUTE	PROJECT	NO.
VA.					2

LEGEND:

X = Void in the East Abutment masonry wall and backfill on north end at the bottom. Dimension of void 10'-8" L x 7'-5" H x 4'-6" D contractor to verify prior to commencing work and repair in kind.

SECTION A-A



Designed: RDG	STRUCTURE AND BRIDGE DIV
Drawn:CA	DATE:SEPT 2021
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STATE		FEDERAL AID		STATE	SHEET
STATE	ROUTE	PROJECT	ROUTE	PROJECT	NO.
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IVISION	NOVA PARKS	Plan No.	Sheet No.
	FOUR MILE RUN BRIDGE #2 EAST ABUTMENT REPAIR 2		3 of 4

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MARK	NO.	BAR SIZE	PIN DIA. FT-IN	F T - IN	LENGTH	H FT-IN	WEIGHT	LOCATION	TYPE	A FT-IN	B FT-IN	C FT-IN	D FT-IN	E P FT-IN	F Q FT-IN	G R FT-IN	H FT-IN	I S FT-IN	J T FT-IN	K U FT-IN	L FT-IN	V FT-IN	N			DIN
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AB0506 AB0507 AB0508	 5	5 5 5	3 3/4 3 3/4	20-09 20-09 6-11	TO 7	7-05	22 22 37	Breastwall Breastwall Wingwall	2 2 1	14-03 14-03 VARY				1-07 5/8 1-08 5/8	6-03 6-03	6-05 3/8 6-05 5/8								AB0508	I A	3-01 6-11
AB0509 AB0510 AB0511	8 2 2	5 5 5	3 3/4	4-10 18-00 20-06			40 38 43	Wingwall Breastwall Breastwall	7	18-00 20-06	3-01	I-00	1-00											AB0512		6-11
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NOTES:

Dimensions in Bending Diagram are out-to-out of bars.

Weights in schedule are based on density of 490 lb/ft.

If fabrication of deck slab bar is not possible for length detailed and multiple bars are required, bars shall have the least number of Class B splices possible. Splices shall be located approximately at points of contraflexure and splices in alternate bars shall be located in different bays.

Straight bars (top and bottom) may be substituted for truss bars (SB series) in the deck superstructure at no extra cost to the Department.

-----EALTH (DANIEL G. DAVIS Lic. No. 032685 ONA -----

PRIME AE Group, Inc.

FIN	FINAL PLAN REVISIONS SUBMITTAL DATE:							
N0.	DATE	AUTH.	DESCRIPTION	NO.	DATE	AUTH.	DESCRIPTION	

ProjectWise File Location: \\$PWVARVAULTPATHDESC\$ Plotted by: \$USER Date & Time: \$DATE\$

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STATE		FEDERAL AID	STATE					
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Notes:

- I. Concrete in abutment shall be class A3 (f'c =3000psi).
- 2. Deformed reinforcment bars shall conform to ASTM A615, Grade 60. All reinforcing bar dimensions on the detailed drawings are to center of bars except where otherwise noted and are subject to fabrication and construction tolerances.
- 3. Mortar between masonry stones on reconstructed abutments shall be Type S (f'm = 1800psi).
- 4. Concrete abutments shall rest on firm material.
- 5. Remove stones with care for abutment reconstruction in order to protect workers and avoid damage to stones.
- 6. Probe creek in vicinity of bridge to salvage all large facing stones available.
- Install sheeting, allowing minimum of 1'-6" from face of original abutment, embedded approximately 4'-0" below mud line.
- 8. Excavate approximately 2'-0" to 3'-0" of soil to firm material and de-water inside of sheeting.
- 9. Remove any loose masonry and stabilize any masonry with questionable support revealed through de-watering.
- Place concrete along abutments as shown on the plans up to 3'-0" below the top of masonry.
- II. Replace and rebuild east abutment breastwall one course at time, placing single row of stone inset 1'-6" around perimeter of armour, watching the original exterior face.
- Replace any missing stones discovered on east and west abutment breastwalls.
- 13. Each stone shall be cleaned and moistened before placement and shall be set on a clean and well moistened mortar bed.
- 14. Stones shall be gently placed with full mortar joints before mortar sets.
- 15. Following placement of each course of stone, concrete should be placed behind the stones filling to the undisturbed soil surface. The top course may require pumping the concrete or possibly finishing the placement with dry-packed concrete.
- 16. Repoint the east and west stone masonry abutments.
- After final inspection and approval of reconstructed bridge abutments remove temporary support.
- 18. NOVA Parks will hire a geotechnical engineer to verify the depth to firm soils. Any additional work necessary to achieve this depth will be considered a change to the original contract. The Contractor shall be responsible to coordinate when the geotechnical engineer will be on site.

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4	Reinforcing Schedule and Rebar Bending Diagrams									

E	ESTIMATED QUANTITIES														
	Concrete Class A3	Reinforcing Steel	Struct. Excav.	Sheet Piles	Stone Masonry Abutment Reconstr.										
	CY	LB	СҮ	SF	SF										
East Abutment	10	502	4	140	22										
Total	10	502	4	140	22										

ION	NOVA PARKS	Plan No.	Sheet No.
	FOUR MILE RUN BRIDGE #3 PLAN AND ELEVATION		l of 4

Stone masonry wingwall

Stone masonry wingwall

SECTION A-A

Scale: $\frac{1}{2}$ " = 1'-0"

Designed: RDG STRUCTURE AND BRIDGE DIV Drawn:CA DATE:SEPT. 2021..... Checked: ALC

STATE		FEDERAL AID	STATE					
STATE	ROUTE	PROJECT	ROUTE	PROJECT	NO.			
VA.					2			

LEGEND:

X = Void in the East Abutment masonry wall and backfill on south end at the bottom. Dimension of void 6'-7" L x 5'-4" H" x 5'-0" D contractor to verify prior to commencing work and repair in kind.

VISION	NOVA PARKS	Plan No.	Sheet No.
	FOUR MILE RUN BRIDGE #3 EAST ABUTMENT REPAIR I	_	2 of 4

Designed: RDG	STRUCTURE AND BRIDGE DIV
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			REINFORCI	ING STE	EL SC	HEDUL							DIMENS	ΙΟΝ ΤΑ	BLE]	STATE ROUTE
MARK	N0.	BAR SIZE	PIN DIA. FT-IN FT-	LENGTH-	I FT-IN	WEIGHT (LBS.)	LOCATION	TYPE	E A FT-IN	B FT-IN	C FT-IN	D F T - IN	E P FT-IN	F Q FT-IN	G R F T - IN	H FT-IN	I S FT-IN	J T FT-IN	K U FT-IN	L FT-IN	V FT-IN	N]	DI
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AB0503 AB0504 AB0505	8 10 1	5 5 5	8-(3 3/4 7- 3 3/4 14-(05 TO S 11 01	9-05	74 82 15	Wingwall Wingwall Breastwall	7	VARY 8-09	6-02	I-00	I-00	11 3/8	5-03	5-03 7/8								AB0503 AB0510	I A 8-05 I A 5 1/
AB0506 AB0507 AB0508		5 5 5	3 3/4 14-0 3 3/4 14-0 3 3/4 14-0	02 02 02		15 15 15	Breastwall Breastwall Breastwall	2 2 2	8-09 8-09 8-09				I-00 7/8 I-02 3/8 I-03 7/8	5-03 5-03 5-03	5-04 1/8 5-04 1/2 5-04 7/8									P 6-02 R 6-02
AB0509 AB0510 AB0511	 6 2	5 5 5	3 3/4 4-(3 3/4 6-(-	03 09 TO 9 10	9-09	15 51 25	Breastwall Breastwall Breastwall	22 22	8-09 VARY 11-10			VARY	1-05 3/8 VARY	5-03 0 5/8	5-05 1/4 VARY									
AB0512 AB0513 AB0514	2 	5 5 5	3 3/4 14-0 3 3/4 14-0 3 3/4 14-0	00 03 03		29 15 15	Breastwall Breastwall Breastwall	2	14-00 8-09 8-09				I-06 7/8 I-08 3/8	5-03 5-03	5-05 5/8 5-06									
AB0515 TOTA	AL WEIGH	-T IN	PRECEDING GROUP	05 TO S OF BARS	9-05	19 502	Wingwall		VARY															
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NOTES:

Dimensions in Bending Diagram are out-to-out of bars.

Weights in schedule are based on density of 490 lb/ft^3 .

If fabrication of deck slab bar is not possible for length detailed and multiple bars are required, bars shall have the least number of Class B splices possible. Splices shall be located approximately at points of contraflexure and splices in alternate bars shall be located in different bays.

Straight bars (top and bottom) may be substituted for truss bars (SB series) in the deck superstructure at no extra cost to the Department.

FINAL PLAN REVISIONS SUBMITTAL DATE: NO. DATE AUTH. DESCRIPTION DESCRIPTION NO. DATE AUTH.

ProjectWise File Location: \$PWVARVAULTPATHDESCPlotted by: \$USER Date & Time: \$DATE\$

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STRUCTURE AND BRIDGE DIVISION

STATE		FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT	NO.
VA.					I

Notes:

- I. Concrete in abutment shall be class A3 (f'c =3000psi).
- 2. Deformed reinforcment bars shall conform to ASTM A615, Grade 60. All reinforcing bar dimensions on the detailed drawings are to center of bars except where otherwise noted and are subject to fabrication and construction tolerances.
- 3. Mortar between masonry stones on reconstructed abutments shall be Type S (f'm = 1800psi).
- 4. Concrete abutments shall rest on firm material.
- 5. Remove stones with care for abutment reconstruction in order to protect workers and avoid damage to stones.
- 6. Probe creek in vicinity of bridge to salvage all large facing stones available.
- 7. Install sheeting, allowing minimum of I'-6" from face of original abutment, embedded approximately 4'-0" below mud line.
- 8. Excavate approximately 2'-0" to 3'-0" of soil to firm material and de-water inside of sheeting.
- 9. Remove any loose masonry and stabilize any masonry with questionable support revealed through de-watering.
- 10. Place concrete along abutments as shown on the plans up to 1'-3" below the top of masonry abutment wall.
- II. Replace and rebuild west abutment breastwall one course at a time, placing single row of stone inset 1'-6" around perimeter of armour, watching the original exterior face.
- 12. Replace any missing stones discovered on east and west abutment breastwalls.
- 13. Each stone shall be cleaned and moistened before placement and shall be set on a clean and well moistened mortar bed.
- 14. Stones shall be gently placed with full mortar joints before mortar sets.
- 15. Following placement of each course of stone, concrete should be placed behind the stones filling to the undisturbed soil surface. The top course may require pumping the concrete or possibly finishing the placement with dry-packed concrete.
- 16. Repoint the east and west stone masonry abutments.
- 17. After final inspection and approval of reconstructed bridge abutments remove temporary support.
- 18. NOVA Parks will hire a geotechnical engineer to verify the depth to firm soils. Any additional work necessary to achieve this depth will be considered a change to the original contract. The Contractor shall be responsible to coordinate when the geotechnical engineer will be on site.
- 19. Stream bed to be graded such that stream bed is 3'-0" below top of concrete wall on each abutment.

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2	2 West Abutment Repair I		
3	West Abutment Repair 2		
4	East Abutment Repair I		
5	5 East Abutment Repair 2		
6	Reinforcing Schedule and Rebar Bending Diagrams		

ESTIMATED QUANTITIES							
Concrete Reinforcing Struct. Sheet Stone Class A3 Steel Excav. Piles Masonry Abutmer Reconst							
	СҮ	LB	CY	SF	SF		
West Abutment	10	435	3	142	13		
East Abutment	30	1326	8	784	28		
Total	40	1761		926	41		

N	NOVA PARKS	Plan No.	Sheet No.
	FOUR MILE RUN BRIDGE #4 PLAN AND ELEVATION		l of 6

Designed: RDG	STRUCTURE AND BRIDGE DI
Drawn:CA	DATE:SEPT.2021
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STATE		FEDERAL AID		STATE	SHEET
	ROUTE	PROJECT	ROUTE	PROJECT	NO.
VA.					2

LEGEND:

X = Void in the West Abutment masonry wall and backfill on north end at the bottom. Dimension of void 2'-11" L x 5'-4" H x 5'-2" D contractor to verify prior to commencing work and repair in kind.

VISION	NOVA PARKS	Plan No.	Sheet No.
	FOUR MILE RUN BRIDGE #4 WEST ABUTMENT REPAIR I	_	2 of 6

C	Designed: RDG	STRUCTURE AND BRIDGE DIVISION	NOVA PARKS	Plan No.	Sheet No.
	Drawn:CA Checked: .ALC	DATE:SEPT.2021	FOUR MILE RUN BRIDGE #4 WEST ABUTMENT REPAIR 2		3 of 6

	STATE		FEDERAL AID		STATE	SHEET
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_Edge of stream

Voided area under wall, 5' below ordinary water level, full length of wall

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VA.					4

LEGEND:

See Sheet 5 for details of void in East Abutment masonry wall. Contractor to verify prior to commencing work.

FLOW	

PLAN VIEW

	AREA	OF
111110		

YEAR	2021							
LOC	VERTICAL	UNDER						
A	0.5'	1.5'						
В	2.0'	2.6'						
С	2.2'	1.7'						
D	0.4'	0.7'						
E	1.0'	1.0'						
F	1.0'	1.4'						
G	0.2'	0.1'						
н	0.2'	0.3'						
1	0.2'	0.4						
J	0.3'	1.0'						
K	0.1'	0.8'						
L	0.0'	0.0'						

Scale: $\frac{3}{4}$ " = 1'-0"

Designed: RDG	STRUCTURE AND BRIDGE DIVISION	NOVA PARKS	Plan No.	Sheet No.
Drawn:CA	DATE:SEPT 2021	FOUR MILE RUN BRIDGE #4		5 of 6
Checked: .ALC		EAST ABUTMENT REPAIR 2		5 01 6

STATE		FEDERAL AID	STATE				
	ROUTE	PROJECT	ROUTE	PROJECT	NO.		
VA.					5		

OF UNDERMINING

				REINFO	ORCING	STEEL	SC	HEDUL	E				
МА	RK	N0.	BAR	PIN DIA.		LENGTH		WEIGHT		LOCATION	1	ΓΥΡΕ	А
			SIZE	FT-IN	FT-IN	F	T-IN	(LBS.)					FT-I
ABC ABC)50 I)502	7 13	5 5	3 3/4	West Ab 12-02 6-00	utment (CRR)	CLASS	III) 89 81	Breast Breast	twall twall		22 I	2-05 6-00
ABC ABC)503)504)505	10 11 2	555	3 3/4	10-09 10-07 10-09	T0 12-02		20 2 24	Wingwa Wingwa Wingwa	ווכ ווכ וור		 7	VARY
	TOTAL	WEIG	HT IN	PRECEDING G	ROUP OF B	ARS		435				•	
				7.7/4	East Ab	utment (CRR (CLASS						
ABC ABC ABC)506)507)508	15 	5 5 5	3 3/4 3 3/4 3 3/4	32-10 32-11 33-00			514 34 34	Breast Breast Breast	twall twall		222	21-00 1 21-00 1 21-00 7
ABC ABC ABC)509)510)511	3 13 22	5 5 5	3 3/4 3 3/4 3 3/4	33-01 17-10 16-07	TO 18-06 TO 17-10		103 246 394	Breast Breast Breast	twall twall twall		2 22 22	21-01 3 2-05 2-05
	TOTAL	WEIG	HT IN	PRECEDING G	ROUP OF B	ARS		1326					
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		D	IMENSI	ON TA	BLE									STA	TE RO	UTE
В	С	D	E P	FQ	G R	Н	l S	J T	K	L	V	N			·•	
F T - IN	FT-IN	F T - IN	FT-IN	FT-IN	FT-IN	FT-IN	F T - IN	FT-IN	F T - IN	FT-IN	FT-IN		MARK	NO.	'ZZ	FROM
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and multiple ces possible. nd splices in

(SB series)

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