

Estimated Quantities RIC-30-1156

Multi span bridge

LEFT STRUCTURE (W.B.B.)

RIGHT STRUCTURE (E.B.B)

ITEM	EXT.	QUANTITY	QUANTITY	UNIT	DESCRIPTION	LEFT STRUCTURE (W.B.B.)				RIGHT STRUCTURE (E.B.B)				SHEET NO.
						ABUT.	PIERS	SUPER.	GEN.	ABUT.	PIERS	SUPER.	GEN.	
202	98200	286	286	FT	REMOVAL MISC.: EXISTING ELASTOMERIC STRIP SEAL			286				286		7/8
512	10100	4,095	4,092	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	56	417	3,623		53	417	3,623		
512	10600	311	426	FT	CONCRETE REPAIR BY EPOXY INJECTION			311				426		
512	73500	9,429	9,429	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN			9,429				9,429		
512	74000	3,995	3,992	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	56	417	3,522		53	417	3,522		
516	01301	286	286	FT	ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS, AS PER PLAN			286				286		3/8,7/8
516	31001	115	115	FT	JOINT SEALER, AS PER PLAN			115				115		7/8
516	46701	28	28	EACH	RESET BEARING, AS PER PLAN			28				28		3/8
516	47001	LUMP	LUMP		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN			LUMP				LUMP		3/8
519	11101	25	25	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN			25				25		3/8
848	10200	666	666	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION (1 3/4" THICK)			666				666		
848	20000	666	666	SY	SURFACE PREPARATION USING HYDRODEMOLITION			666				666		
848	30200	2	2	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY			2				2		
848	50000	7	7	SY	HAND CHIPPING			7				7		
848	50100	LUMP	LUMP		TEST SLAB			LUMP				LUMP		
848	90000	666	666	SY	OVERLAY, MISC.: PARTIAL DEPTH SURFACE PREPARATION BY MILLING			666				666		8/8
848	60348	434		SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY			434						

512	10100	8162	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
Beams		5.62	FT	perimeter interior beam
		10.00	FT	LENGTH
		10.00	BOTH	INTERIOR BEAM(LT BRG+RT BRG)
		3.00	LOCATION	LOCATION
		1.06	FT	perimeter exterior beam
		10.00	FT	LENGTH
		4.00	BOTH	EXTERIOR BEAM(LT BRG+RT BRG)
		3.00	LOCATION	LOCATION
		1813.71	SF	TOTAL BEAM
		202	SY	TOTAL BEAM
Pier cap	PIER 6	13.00	FT	Top+Bottom width
		57.89	FT	LENGTH
		752.57	SF	Area
		45.51	SF	Deduction area under beam
		707.06	SF	Sealing Area
		7.00	FT	Side of cap
		57.89	FT	LENGTH
	PIER 12	10.00	FT	Top+Bottom width
		54.42	FT	LENGTH
		544.20	SF	Area
		45.51	SF	Deduction area under beam
		498.69	SF	Sealing Area
		3.50	FT	Side of cap
		54.42	FT	LENGTH
Pier column	PIER 6	12.56	FT	PERIMETER
		27.39	FT	HEIGHT
		5.00	NUMBER	NUMBER
	PIER 12	6.28	FT	PERIMETER
		7.43	FT	HEIGHT
		5.00	NUMBER	NUMBER

		2.00
		7509.70
		834
PARAPET	1 -12 & 17	9.60
		1457.88
	13-16	10.64
		174.00
		4.00
		63393.88
		7044
Rear Abutment	RA - EBB	10.27
		9.17
		6.08
		12.63
		10.00
		3.33
		9.41
		4.05
		242
		27
RA -WBB		6.32
		13.42
		10.07
		9.19
		9.88
		5.66
		9.54
		3.31
		265
		29
		56
Fwd Abutment	FA - EBB	5.99
		11.19
		10.30
		8.42
		9.22
		4.38
		10.30
		3.58
		231
		26
FA - WBB		10.18
		8.50
		5.98
		11.78
		10.22
		3.26
		9.20
		4.89
		235
		26

BOTH	SIDE (LT+RT)
SF	
SY	TOTAL PIER
FT	PARAPET+SLAB THCK + 6" UNDERNEATH
FT	
FT	PARAPET+SLAB THCK + 6" UNDERNEATH
FT	LENGTH
EACH	
SF	
SY	TOTAL PARAPET
FT	RT wingwall surface
FT	RT LENGTH
FT	LT WINGWALL SURFACE
FT	LT LENGTH
FT	RT surface (Short stretch of backwall from outside face of beam to start of wingwall)
FT	RT length
FT	LT Surface (Short stretch of backwall from outside face of beam to start of wingwall)
FT	LT length
SF	EBB
SY	EBB TOTAL
FT	RT wingwall surface
FT	RT LENGTH
FT	LT WINGWALL SURFACE
FT	LT LENGTH
FT	RT Surface (Short stretch of backwall from outside face of beam to start of wingwall)
FT	RT length
FT	LT Surface (Short stretch of backwall from outside face of beam to start of wingwall)
FT	LT length
SF	WBB
SY	WBB TOTAL
SY	TOTAL RA
FT	RT wingwall surface
FT	RT LENGTH
FT	LT WINGWALL SURFACE
FT	LT LENGTH
FT	RT surface (Short stretch of backwall from outside face of beam to start of wingwall)
FT	RT length
FT	LT Surface (Short stretch of backwall from outside face of beam to start of wingwall)
FT	LT length
SF	EBB
SY	EBB TOTAL
FT	RT wingwall surface
FT	RT LENGTH
FT	LT WINGWALL SURFACE
FT	LT LENGTH
FT	RT surface (Short stretch of backwall from outside face of beam to start of wingwall)
FT	RT length
FT	LT Surface (Short stretch of backwall from outside face of beam to start of wingwall)
FT	LT length
SF	WBB
SY	WBB TOTAL

52

SY TOTAL FA

total 8162

sy

512	73,500	9,429	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
left	length	1632	FT	Bridge Limits
	width	52	FT	Toe to Toe Parapet
		84858	sf	TOTAL LEFT
right	length	1632	FT	Bridge Limits
	width	52	FT	Toe to Toe Parapet
		84858	sf	TOTAL RIGHT
		169716	SF	TOTAL
		18857	sy	TOTAL

512	74000	7986	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES
	ABUTMENT	108	SY	
	PIER	834	SY	
	SUPERSTRUCTU	7044	SY	PARAPET
	TOTAL	7986	SY	

516	31001	230	FT	JOINT SEALER, AS PER PLAN
Rear Approach length		119	ft	lt + rt
Forward Apprc length		111	ft	lt + rt
total		230	ft	

516	46701	56	EACH	RESET BEARING, AS PER PLAN
RA+Pier 6 + Pier 1		56		Total

516	47001	LUMP	0	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN
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848	10200	1331	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION (1 3/4" THICK)
left bridge		3.67	ft	width
		1631.88	ft	length
		5989	sf	
right bridge		3.67	ft	width
		1631.88	ft	length
		5989	sf	
		11977.9992	sf	total
		1331	sy	total

848	20000	1331	SY	SURFACE PREPARATION USING HYDRODEMOLITION
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848	30200	4	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY
		1,197.80	sf	assume 10% of variable thickness qty
		0.08	ft	assume 1" depth
		99.42	cu ft	
		4	cu yd	

848	50000	14	SY	HAND CHIPPING
		120	sf	assume 10% of variable thickness qty

		14		sy	
848	50100	LUMP			TEST SLAB
848	90000	1331		SY	OVERLAY, MISC.: PARTIAL DEPTH SURFACE PREPARATION BY MILLING
848	50240	134		SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY
		134		cy	
516	01301	285.5		FT	ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS, AS PER PLAN
lt+rt	length	119.00		ft	
		2.00		location	R. A. and Pier 6
	length	110.98		ft	
		3.00		location	Pier 12, Pier 16 and F.A.
	total length	571.00		ft	
512	10600	736.00		FT	CONCRETE REPAIR BY EPOXY INJECTION
lt+rt	length WB	270.00		ft	
	WB	310.50		FT	ADD 15% CONTINGENCY
	length EB	370.00		ft	
	EB	425.50		FT	ADD 15% CONTINGENCY
	total length	736.00		ft	EB+WB
519	11101	50		SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN
	eb+wb	50		sf	Assume 25 sf contingency for each side. (EB + WB)
lt+rt	length-WB	183.43		ft	66%-assumed
	width	4.00		ft	
	length-EB	167.23		ft	90%-assumed
	width	4.00		ft	
	total length	340.66		sf	