Bridge Estima	ted Quantities			Сомра	
Description	: 10010 : BUT-00004-14.800L : SR 4 SB over Gregory Greek : 0900184		Designer: JFK Checker: ERK	INFRASTRUCTURE Date: Date:	7/10/202 7/11/202
Item Number 202E11203	Description PORTIONS OF STRUCTURE REMOVED, OVER 20 FC		DLAN		
202211203	PORTIONS OF STRUCTURE REMOVED, OVER 20 FO	JUT SPAN, AS PER	PLAN		
	Area of Existing Deck Removed= Cost/SF of removal = Cost of deck removal =	299.31 ft^2 \$75/SF \$22,448			
	Volume of backwall concrete removed = Volume of Rear Right WW concrete removed = Volume of remaining WW's concrete removed = Volume of concrete removed = Cost/CY of removal =	638.37 ft^3 159.91 ft^3 303.35 ft^3 41 CY \$425/CY \$17,425			
	Total cost =	\$40,000			
	Total Quantity =	LS			
202E22900	APPROACH SLAB REMOVED				
	Area of existing approach slab =	<u>Rear</u> 600.00 ft^2	Forward 600.00 ft^2		
	Total removal =	1200.00 ft^2			
	Total Quantity =	134 SY			
202E23500	WEARING COURSE REMOVED				
	Area of existing approach slab =	<u>Rear</u> 600.00 ft^2	Forward 600.00 ft^2		
	Total removal =	1200.00 ft^2			
	Total Quantity =	134 SY			
503E11100	COFFERDAMS AND EXCAVATION BRACING				
	Length = Approximate Height = Area = Cost/SF =	Rear 12.25 ft 6.00 ft 73.50 ft^2	Forward 12.25 ft 6.00 ft 73.50 ft^2 \$100/sf		
	Total cost =	\$15,000			
	Total Quantity =	LS			
503E11101	COFFERDAMS AND EXCAVATION BRACING, AS PE	R PLAN			
	Quantity for temproary a	ccess fill			
	Total cost =	\$10,000			
	Total Quantity =	LS			
503E21300	UNCLASSIFIED EXCAVATION				
	Right Area = Left Area = Avg. Bottom of footing to Top of Ex. Soil = Volume =	Rear 72.92 ft*2 85.56 ft*2 9.00 ft 52.83 CY	Forward 43.51 ft^2 68.38 ft^2 9.00 ft 37.30 CY		
	Total Volume = Cost/CY of excavation =	91 CY \$85/CY			
	Total Cost =	\$8,000			

505E11100 F	PILE DRIVING EQUIPMENT MOBILIZATION					
	Total cost =	\$22,500				
	Total Quantity =	LS				
507E00600 1	4" CAST-IN-PLACE REINFORCED CONCRETE PILES,					
	4 CAST-IN-PLACE REINFORCED CONCRETE PILES,	, DRIVEN				
			Rear	Forward		
	No. of piles =	2 35.00 ft	3 35.00 ft	4 25.00 ft		
	Driven Length = Total Driven Length =	70.00 ft	105.00 ft	100.00 ft		
	iotal briven Length -	70.00 10	105.00 10	100.00 10		
	Total Quantity =	275 FT				
507E00651 1	4" CAST-IN-PLACE REINFORCED CONCRETE PILES,	, FURNISHED, AS PE	R PLAN			
			Rear	Forward		
	No. of piles =	2	3	4		
	Bottom of pile cap =	622.88	622.88	623.65		
	Extension into cap =	2.00 ft	1.00 ft	2.00 ft		
	Tip elevation from geotech report = Estimated Length =	594.00	594.00	604 21.65 ft		
	Estimated Length = Estimated Length (rounded) =	30.88 ft 35.00 ft	29.88 ft 35.00 ft	21.65 π 25.00 ft		
	Order Length =	40.00 ft	40.00 ft	30.00 ft		
	Total Furnished Length =	80.00 ft	120.00 ft	120.00 ft		
	Total Quantity =	320 FT				
0050004						
509E20001 C	CONCRETE REINFORCEMENT, REPLACEMENT OF E	AISTING CONCRETE	REINFURCEMENT, AS PER F	~LAN		
		Deck				
	Length of bar =	4.16 ft	4.16 ft	5.50 ft	5.50 ft	
	Number of bars =	74	62	38	38	
	Total Length = Bar size weight =	307.84 ft	257.92 ft	209.00 ft	209.00 ft	
	Rebar Weight =	0.668 lb/ft 206 lb	1.043 lb/ft 269 lb	1.043 lb/ft 218 lb	1.502 lb/ft 314 lb	
	Ratio =	25%	25%	25%	25%	
	Total =	51 lb	67 lb	54 lb	78 lb	
	Total Quantity =	252 LB				
09E26001	GALVANIZED STEEL REINFORCEMENT, AS PER PLA	N				
		Abutments	Superstructure			
	Total =	2836 lb	8140 lb			
	Total Quantity =	10976 LB				
510E10000	DOWEL HOLES WITH NONSHRINK, NONMETALLIC	GROUT				
			Forward			
	Number of Dowel holes =	<u>Rear</u> 27 each	Forward 28 each			
	Manuel of Dowerholes -	27 6001	20 0001			
	Total Quantity =	55 EACH				
511E33501 S	EMI-INTEGRAL DIAPHRAGM GUIDE, AS PER PLAN					
		Rear	Forward			
	Number of diaphragm guides =	1 each	1 each			
	Total Quantity =	2 EACH				
	· · · · · · · · · · · · · · · · · · ·					
11642510	CLASS QC1 CONCRETE, ABUTMENT INCLUDING FO					
511E43510 (Wingwall 1	Wingwall 2	Wingwall 3	Wingwall 4	
511E43510 C		Wingwall 1		5.50 ft	5.50 ft	
511E43510 C	Width of footing =	3.13 ft	5.50 ft			
511E43510 0	Height of footing =	3.13 ft 3.00 ft	4.45 ft	4.46 ft	4.36 ft	
511E43510 C	Height of footing = Length of footing extension =	3.13 ft 3.00 ft 15.04 ft	4.45 ft 8.10 ft	4.46 ft 4.70 ft	7.82 ft	
511E43510 0	Height of footing =	3.13 ft 3.00 ft	4.45 ft	4.46 ft		
511E43510 0	Height of footing = Length of footing extension = Volume of footing =	3.13 ft 3.00 ft 15.04 ft 141.19 ft^3	4.45 ft 8.10 ft 198.22 ft^3	4.46 ft 4.70 ft 115.24 ft^3	7.82 ft 187.46 ft^3	
511E43510 0	Height of footing = Length of footing extension =	3.13 ft 3.00 ft 15.04 ft	4.45 ft 8.10 ft	4.46 ft 4.70 ft	7.82 ft	
511E43510 C	Height of footing = Length of footing extension = Volume of footing = Width of wingwall =	3.13 ft 3.00 ft 15.04 ft 141.19 ft^3 1.50 ft	4.45 ft 8.10 ft 198.22 ft^3 3.00 ft	4.46 ft 4.70 ft 115.24 ft^3 3.00 ft	7.82 ft 187.46 ft^3 3.00 ft	

1						
	Height at end of wingwall =	5.85 ft	1.17 ft	2.39 ft	2.49 ft	
	Volume of wingwall =	98.72 ft^3	59.94 ft^3	44.33 ft^3	60.49 ft^3	
	Volume of abutment =	239.91 ft^3	258.16 ft^3	159.57 ft^3	247.96 ft^3	
	Total Quantity =	34 CY				
511E53012		CONCRETE AC DED DI	A.N.I			
511653012	CLASS QC2 CONCRETE, MISC.: SUPERSTRUCTURE	CONCRETE, AS PER PL	AN			
	Out/out bridge width along skew=	45.08 ft				
	Limits of deck replacement =	1.00 ft				
	Deck area =	45.08 ft^2				
	Deck thickness =	7.75 in				
	Deck volume =	29.11 ft^3				
		20.00 in				
	Haunch width = Haunch thickness =	20.00 in				
		2.75 in 1.00 ft				
	Beam length of deck replacement = Number of beams =					
	Haunch volume =	6 each 2.29 ft^3				
	Haunch volume -	2.2910.5				
	Overhang depth =	16.00 in				
	Overhang width =	3.00 ft				
	Replacement overhang volume =	2.98 ft^3				
	Total deck replacement volume =	68.77 ft^3				
	Total deck replacement volume =	3 yd^3				
		Rear	Forward			
	Diapraghm length =	45.08 ft	45.08 ft			
	Diapraghm height =	4.40 ft	4.40 ft			
	Diapragm thickness =	4.41 ft	4.41 ft			
	Diaphragm volume =	873.10 ft^3	873.10 ft^3			
	Total diaphragm volume =	1746.20 ft^3				
	Total diaphragm volume =	65 yd^3				
	Total Quantity =	68 CY				
512E10050	SEALING OF CONCRETE SURFACES (NON-EPOXY)					
512E10050	· · · ·					
512E10050	SEALING OF CONCRETE SURFACES (NON-EPOXY) <u>Superstructure:</u>	Rear	Forward			
512E10050	· · · ·	<u>Rear</u> 4.40 ft	Forward 4.40 ft			
512E10050	Superstructure:					
512E10050	<u>Superstructure:</u> Average diaphragm height =	4.40 ft	4.40 ft			
512E10050	Superstructure: Average diaphragm height = Deck thickness =	4.40 ft 7.75 in	4.40 ft 7.75 in			
512E10050	<u>Superstructure:</u> Average diaphragm height = Deck thickness = Average exposed height =	4.40 ft 7.75 in 3.75 ft	4.40 ft 7.75 in 5.92 ft			
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm =	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft^2	4.40 ft 7.75 in 5.92 ft 45.08 ft			
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm =	4.40 ft 7.75 in 3.75 ft 45.08 ft	4.40 ft 7.75 in 5.92 ft 45.08 ft			
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm =	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft^2 435.74 ft^2	4.40 ft 7.75 in 5.92 ft 45.08 ft			
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm =	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft^2	4.40 ft 7.75 in 5.92 ft 45.08 ft			
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm = Length of Deck Edge =	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft^2 435.74 ft^2 154.35 ft	4.40 ft 7.75 in 5.92 ft 45.08 ft			
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm = Length of Deck Edge = Perimeter of Deck Edge Sealed = Area of sealing =	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft*2 435.74 ft*2 154.35 ft 1.83 ft 565.95 ft*2	4.40 ft 7.75 in 5.92 ft 45.08 ft			
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm = Length of Deck Edge = Perimeter of Deck Edge Sealed =	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft^2 435.74 ft^2 154.35 ft 1.83 ft	4.40 ft 7.75 in 5.92 ft 45.08 ft			
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm = Length of Deck Edge = Perimeter of Deck Edge Sealed = Area of sealing = Total area for superstructure =	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft*2 435.74 ft*2 154.35 ft 1.83 ft 565.95 ft*2	4.40 ft 7.75 in 5.92 ft 45.08 ft			
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm = Length of Deck Edge = Perimeter of Deck Edge Sealed = Area of sealing =	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft^2 435.74 ft^2 154.35 ft 1.83 ft 565.95 ft^2 1001.69 ft^2	4.40 ft 7.75 in 5.92 ft 45.08 ft 266.70 ft^2			
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm = Length of Deck Edge = Perimeter of Deck Edge Sealed = Area of sealing = Total area for superstructure = <u>Abutment:</u>	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft^2 435.74 ft^2 154.35 ft 1.83 ft 565.95 ft^2 1001.69 ft^2 <u>Rear</u>	4.40 ft 7.75 in 5.92 ft 45.08 ft 266.70 ft^2			
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm = Length of Deck Edge = Perimeter of Deck Edge Sealed = Area of sealing = Total area for superstructure = <u>Abutment:</u> Abutment stem wall average height =	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft^2 435.74 ft^2 154.35 ft 1.83 ft 565.95 ft^2 1001.69 ft^2 <u>Rear</u> 2.17 ft	4.40 ft 7.75 in 5.92 ft 45.08 ft 266.70 ft^2			
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm = Length of Deck Edge = Perimeter of Deck Edge Sealed = Area of sealing = Total area for superstructure = <u>Abutment:</u>	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft^2 435.74 ft^2 154.35 ft 1.83 ft 565.95 ft^2 1001.69 ft^2 <u>Rear</u>	4.40 ft 7.75 in 5.92 ft 45.08 ft 266.70 ft^2			
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm = Length of Deck Edge = Perimeter of Deck Edge Sealed = Area of sealing = Total area for superstructure = <u>Abutment:</u> Abutment stem wall average height = Length of stem wall exposed = Area for abutment =	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft^2 435.74 ft^2 154.35 ft 1.83 ft 565.95 ft^2 1001.69 ft^2 <u>Rear</u> 2.17 ft 45.08 ft 97.67 ft^2	4.40 ft 7.75 in 5.92 ft 45.08 ft 266.70 ft^2 Forward 2.17 ft 45.08 ft			
512E10050	<u>Superstructure:</u> Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm = Length of Deck Edge = Perimeter of Deck Edge Sealed = Area of sealing = Total area for superstructure = <u>Abutment:</u> Abutment stem wall average height = Length of stem wall exposed =	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft*2 435.74 ft*2 154.35 ft 1.83 ft 565.95 ft*2 1001.69 ft*2 <u>Rear</u> 2.17 ft 45.08 ft	4.40 ft 7.75 in 5.92 ft 45.08 ft 266.70 ft^2 Forward 2.17 ft 45.08 ft			
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm = Length of Deck Edge = Perimeter of Deck Edge Sealed = Area of sealing = Total area for superstructure = Abutment: Abutment stem wall average height = Length of stem vall exposed = Area for abutment =	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft^2 435.74 ft^2 154.35 ft 1.83 ft 565.95 ft^2 1001.69 ft^2 <u>Rear</u> 2.17 ft 45.08 ft 97.67 ft^2	4.40 ft 7.75 in 5.92 ft 45.08 ft 266.70 ft^2 Forward 2.17 ft 45.08 ft			
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm = Length of Deck Edge = Perimeter of Deck Edge Sealed = Area of sealing = Total area for superstructure = <u>Abutment:</u> Abutment stem wall average height = Length of stem wall exposed = Area for abutment =	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft*2 435.74 ft*2 154.35 ft 1.83 ft 565.95 ft*2 1001.69 ft*2 Rear 2.17 ft 45.08 ft 97.67 ft*2 195.33 ft*2	4.40 ft 7.75 in 5.92 ft 45.08 ft 266.70 ft^2 Forward 2.17 ft 45.08 ft	Wingwall 2	Wingwall 3	Wingwall 4
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm = Length of Deck Edge = Perimeter of Deck Edge Sealed = Area of sealing = Total area for superstructure = Abutment: Abutment stem wall average height = Length of stem vall exposed = Area for abutment =	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft*2 435.74 ft*2 154.35 ft 1.83 ft 565.95 ft*2 1001.69 ft*2 Rear 2.17 ft 45.08 ft 97.67 ft*2 195.33 ft*2	4.40 ft 7.75 in 5.92 ft 45.08 ft 266.70 ft^2 <u>Forward</u> 2.17 ft 45.08 ft 97.67 ft^2	<u>Wingwall 2</u> 7.45 ft^2	<u>Wingwall 3</u> 4.45 ft^2	<u>Wingwall 4</u> 4.88 ft^2
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm = Length of Deck Edge = Perimeter of Deck Edge Sealed = Area of sealing = Total area for superstructure = <u>Abutment:</u> Abutment stem wall average height = Length of stem vall exposed = Area for abutment = Total area for abutment =	 4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft^2 435.74 ft^2 154.35 ft 1.83 ft 565.95 ft^2 1001.69 ft^2 Rear 2.17 ft 45.08 ft 97.67 ft^2 195.33 ft^2 Wing 	4.40 ft 7.75 in 5.92 ft 45.08 ft 266.70 ft^2 Forward 2.17 ft 45.08 ft 97.67 ft^2 wall 1			
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm = Length of Deck Edge = Perimeter of Deck Edge Sealed = Area of sealing = Total area for superstructure = Abutment: Abutment stem wall average height = Length of stem vall exposed = Area for abutment = Total area for abutment =	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft^2 435.74 ft^2 154.35 ft 1.83 ft 565.95 ft^2 1001.69 ft^2 Rear 2.17 ft 45.08 ft 97.67 ft^2 195.33 ft^2 Wing 10.36 ft^2	4.40 ft 7.75 in 5.92 ft 45.08 ft 266.70 ft^2 Eorward 2.17 ft 45.08 ft 97.67 ft^2 wall 1 31.67 ft^2	7.45 ft^2	4.45 ft^2	4.88 ft^2
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm = Length of Deck Edge = Perimeter of Deck Edge Sealed = Area of sealing = Total area for superstructure = Abutment: Abutment stem wall average height = Length of stem wall exposed = Area for abutment = Total area for abutment = Area of or abutment = Area of or abutment =	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft^2 435.74 ft^2 154.35 ft 1.83 ft 565.95 ft^2 1001.69 ft^2 Rear 2.17 ft 45.08 ft 97.67 ft^2 195.33 ft^2 Wing 10.36 ft^2 0.00 ft^2	4.40 ft 7.75 in 5.92 ft 45.08 ft 266.70 ft^2 Eorward 2.17 ft 45.08 ft 97.67 ft^2 wall 1 31.67 ft^2 0.00 ft^2	7.45 ft^2 23.10 ft^2	4.45 ft^2 26.92 ft^2	4.88 ft^2 13.62 ft^2
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm = Length of Deck Edge = Perimeter of Deck Edge Sealed = Area of sealing = Total area for superstructure = Abutment: Abutment stem wall average height = Length of stem vall exposed = Area for abutment = Total area for abutment = Area for abutment = Total area for abutment = Mingwalls: Area of wingwall face behind = Area of wingwall thickness =	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft^2 435.74 ft^2 154.35 ft 1.83 ft 565.95 ft^2 1001.69 ft^2 Rear 2.17 ft 45.08 ft 97.67 ft^2 195.33 ft^2 Wing 10.36 ft^2 0.00 ft^2 0.00 ft	4.40 ft 7.75 in 5.92 ft 45.08 ft 266.70 ft^2 2000 ft 2.17 ft 45.08 ft 97.67 ft^2 0.00 ft^2 1.50 ft	7.45 ft^2 23.10 ft^2 3.00 ft	4.45 ft^2 26.92 ft^2 3.00 ft	4.88 ft^2 13.62 ft^2 3.00 ft
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm = Length of Deck Edge = Perimeter of Deck Edge Sealed = Area of sealing = Total area for superstructure = <u>Abutment:</u> Abutment stem wall average height = Length of stem wall exposed = Area for abutment = Total area for abutment = <u>Wingwalls:</u> Area of wingwall face = Wingwall thickness = Length along top of wingwall area =	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft^2 435.74 ft^2 154.35 ft 1.83 ft 565.95 ft*2 1001.69 ft*2 Rear 2.17 ft 45.08 ft 97.67 ft*2 195.33 ft*2 0.00 ft*2 0.00 ft*2 0.00 ft*2 0.00 ft*2 0.00 ft 0.00 ft*2 0.00 ft*2 0.00 ft*2 0.00 ft 0.36 ft*2	4.40 ft 7.75 in 5.92 ft 45.08 ft 266.70 ft^2 2.17 ft 45.08 ft 97.67 ft^2 31.67 ft^2 0.00 ft^2 1.50 ft 11.25 ft	7.45 ft^2 23.10 ft^2 3.00 ft 8.13 ft	4.45 ft^2 26.92 ft^2 3.00 ft 6.88 ft	4.88 ft^2 13.62 ft^2 3.00 ft 5.38 ft
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm = Length of Deck Edge = Perimeter of Deck Edge Sealed = Area of sealing = Total area for superstructure = <u>Abutment:</u> Abutment stem wall average height = Length of stem wall exposed = Area for abutment = Total area for abutment = Wingwalls: Area of wingwall face behind = Area of wingwall face = Wingwall thickness = Length along top of wingwall =	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft*2 435.74 ft*2 154.35 ft 1.83 ft 565.95 ft*2 1001.69 ft*2 Rear 2.17 ft 45.08 ft 97.67 ft*2 195.33 ft*2 0.00 ft*2 0.00 ft*2 0.00 ft 0.00 ft	4.40 ft 7.75 in 5.92 ft 45.08 ft 266.70 ft^2 2.17 ft 45.08 ft 97.67 ft^2 31.67 ft^2 0.00 ft^2 1.50 ft 11.25 ft	7.45 ft^2 23.10 ft^2 3.00 ft 8.13 ft	4.45 ft^2 26.92 ft^2 3.00 ft 6.88 ft	4.88 ft^2 13.62 ft^2 3.00 ft 5.38 ft
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm = Length of Deck Edge = Perimeter of Deck Edge Sealed = Area of sealing = Total area for superstructure = Abutment: Abutment stem wall average height = Length of stem wall exposed = Area for abutment = Total area for abutment = Wingwalls: Area of wingwall face behind = Area of wingwall thickness = Length along top of wingwall = Total area for wingwall =	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft^2 435.74 ft^2 154.35 ft 1.83 ft 565.95 ft^2 1001.69 ft^2 Rear 2.17 ft 45.08 ft 97.67 ft^2 195.33 ft^2 Wing 10.36 ft^2 0.00 ft 0.00 ft 20.04 ft^2 200.49 ft^2	4.40 ft 7.75 in 5.92 ft 45.08 ft 266.70 ft^2 2.17 ft 45.08 ft 97.67 ft^2 31.67 ft^2 0.00 ft^2 1.50 ft 11.25 ft	7.45 ft^2 23.10 ft^2 3.00 ft 8.13 ft	4.45 ft^2 26.92 ft^2 3.00 ft 6.88 ft	4.88 ft^2 13.62 ft^2 3.00 ft 5.38 ft
512E10050	Superstructure: Average diaphragm height = Deck thickness = Average exposed height = Length of diaphragm = Area for diaphragm = Total area for diaphragm = Length of Deck Edge = Perimeter of Deck Edge Sealed = Area of sealing = Total area for superstructure = <u>Abutment:</u> Abutment stem wall average height = Length of stem wall exposed = Area for abutment = Total area for abutment = <u>Wingwalls:</u> Area of wingwall face = Wingwall thickness = Length along top of wingwall area =	4.40 ft 7.75 in 3.75 ft 45.08 ft 169.04 ft^2 435.74 ft^2 154.35 ft 1.83 ft 565.95 ft*2 1001.69 ft*2 Rear 2.17 ft 45.08 ft 97.67 ft*2 195.33 ft*2 0.00 ft*2 0.00 ft*2 0.00 ft*2 0.00 ft*2 0.00 ft 0.00 ft*2 0.00 ft*2 0.00 ft 10.36 ft*2	4.40 ft 7.75 in 5.92 ft 45.08 ft 266.70 ft^2 2.17 ft 45.08 ft 97.67 ft^2 31.67 ft^2 0.00 ft^2 1.50 ft 11.25 ft	7.45 ft^2 23.10 ft^2 3.00 ft 8.13 ft	4.45 ft^2 26.92 ft^2 3.00 ft 6.88 ft	4.88 ft^2 13.62 ft^2 3.00 ft 5.38 ft

Total Quantity = 156 SY

512E10400	TREATING OF CONCRETE BRIDGE DECK WITH SRS			
	Deck Area =	5908.68 ft^2		
	Total Quantity =	657 SY		
512E33000	TYPE 2 WATERPROOFING			
		Rear	Forward	
	Width =	3.00 ft	3.00 ft	
	Height =	3.17 ft	3.17 ft	
	Area =	1.06 SY	1.06 SY	
	Total Quantity =	3 SY		
		3 31		
512E74001	REMOVAL OF EXISTING COATINGS FROM CONCR	ETE SURFACES, AS PE	PLAN	
	Length of Deck Edge =	154.35 ft		
	Perimeter of Deck Edge Sealed =	1.83 ft		
	Area of sealing =			
	Area or sealing –	63 yd^2		
	Abutment stem wall average height =	2.17 ft	2.17 ft	
	Length of diaphragm =	45.08 ft	45.08 ft	
	Area for diaphragm =	11 yd^2	11 yd^2	
	Total Quantity =	85 FT^2		
514E27700	FIELD PAINTING, MISC.: COATING OF BEAM ENDS			
		Rear	Forward	
	Beam Area =	38.30 ft^2	38.30 ft^2	
	Beam Flange Width =	11.50 in	11.50 in	
	Beam Depth =	33.10 in	33.10 in	
	Nominal Perimeter =	100.70 IN	100.70 IN	
	Length =	3.90 ft	3.90 ft	
	# of Beams =	6	6	
	Aprrox. Surface Area =	234.67 SF	234.67 SF	
	10% incedental =	23.47 SF	23.47 SF	
	Total Quantity =	517 SF		
516E13900	2" PREFORMED EXPANSION JOINT FILLER			
510213500				
		Rear Abutment	FWD. Abutment	
	Area =	35.01 sf	33.35 sf	
	Total Quantity =	69 SF		
		03 51		
516E14020	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SE	AL		
		Rear	Forward	
	Length along diaphragm =	48.83 ft	48.83 ft	
	Height at wingwall =	4.31 ft	4.31 ft	
	Diaphragm guide =	6.00 ft	6.00 ft	
	Total length =	63.46 ft	63.46 ft	
	-			
	Total Quantity =	127 FT		
516E44101	ELASTOMERIC BEARING WITH INTERNAL LAMINA	TES AND LOAD PLATE	NEOPRENE), AS PER PLAN (10"X15"X2.628" WITH	A 11"X16"X1.5" LOAD PLATE)
			Ferring	
	Number of boards	Rear	Forward	
	Number of bearings =	6 each	6 each	
	Total Quantity =	12 EACH		
E16E44004				
516E44201	ELASTOMERIC BEARING WITH INTERNAL LAMINA	LES AND LOAD PLATE	NEUPRENEJ, AS PER PLAN (12"X19"X3.382" WITH	I A 13 AZU"XZ" LUAD PLATE)
		Pier 1	Pier 2	
	Number of bearings =	6 each	6 each	
	Total Quantity =	12 EACH		

516E47001	JACKING AND TEMPORARY SUPPORT OF SUPERSTR	UCTURE, AS PER PLAN	l			
	Cost/Joshad Supported Locations-	1222 5464				
	Cost/Jacked Supported Locations= Total Cost = \$	1333 EACH 32,000.00				
		52,000.00				
		Rear	Pier 1	Pier 2	Forward	
	# of Jack Supported Locations	6 each	6 each	6 each	6 each	
	Total # of Jack Supported Locations	24 EACH				
	Tatal Quantity -	10				
	Total Quantity =	LS				
517E75601	DEEP BEAM BRIDGE RETROFIT RAILING, AS PER PLA	N				
	-					
		Left	Right			
	Length btwn. first posts off bridge =	174.00 ft	174.00 ft			
	Total Quantity =	348 FT				
	Total Quantity -	34011				
518E21200	POROUS BACKFILL WITH GEOTEXTILE FABRIC					
		Rear	Forward			
	Length of porous backfill =	64.15 ft	57.76 ft			
	Width of porous backfill = Approx. average height of porous backfill =	2.00 ft 5.75 ft	2.00 ft 5.75 ft			
	Volume of porous backfill =	737.73 ft^3	664.18 ft^3			
	Total Quantity =	52 CY				
519E11101	PATCHING CONCRETE STRUCTURE, AS PER PLAN					
		Rear	Pier 1	Pier 2	Forward	
	Area of patching	6.50 ft^2	0.00 ft^2	0.00 ft^2	0.00 ft^2	
	Accounting for further deterioration	50.00 %				
	Total Quantity =	10 SF				
523E20000	DYNAMIC LOAD TESTING					
323120000	DINAMIC LOAD ILSTING					
	Number of tests =	1 EACH				
526E15001	REINFORCED CONCRETE APPROACH SLABS (T=13"),	, AS PER PLAN				
		Rear	Forward			
	Approach slab length =	20.00 ft	20.00 ft			
	Approach slab width =	36.00 ft	36.00 ft			
	Approach slab area =	720.00 ft^2	720.00 ft^2			
	Total Quantity =	160 SY				
526E90011	TYPE A INSTALLATION, AS PER PLAN					
520290011	THE A INSTALLATION, AS PER PLAN					
		Rear	Forward			
	Length along approach slab =	45.08 ft	45.08 ft			
		o. ==				
	Total Quantity =	91 FT				
601E32000	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER					
		Rear	Forward			
	Area of rock channel protection =	276.35 ft^2	277.53 ft^2			
	Width of rock channel protection =	3.00 ft	3.00 ft			
	Sloped ground of rock channel protection =	1.15 953.41 ft^3	1.15 957.48 ft^3			
	Volume of porous backfill =	953.41 T(^3	957.48 TT*3			
	Total Quantity =	71 CY				
846E00110	POLYMER MODIFIED ASPHALT EXPANSION JOINT S	YSTEM				
		Deer Abuter est				
	Area =	Rear Abutment 19 CF	FWD. Abutment 19 CF			
	Alea =	13 CF	13 CF			
	Total Quantity =	38 CF				
	Total Quantity =	38 CF				