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511E31611 CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN	<u>UNITS =</u> CY
Deck	
Plan Area = 2016.00 SF (measured in CAD)	
Лах. Deck Thick. = 9.000 IN	
Min. Deck Thick. = 6.000 IN	
Avg. Deck Thick. = 7.500 IN	
Volume = (2016 SF X 7.5 IN / 12 IN/FT) / 27 =	46.7 CY
Diaphragm	
Rear Abutment Diaphragm	
Area = 16.00 SF	
Thickness = 1.00 FT	
Area = 49.06 SF	
Thickness = 1.50 FT	
Forward Abutment Diaphragm	
Area = 16.00 SF	
Thickness = 1.00 FT	
Area = 48.85 SF	
Thickness = 1.50 FT	
Volume = (16 SF X 1 FT + 49.06 SF X 1.5 FT + 16 SF X 1 FT + 48.85 SF X 1.5 FT) / 27 =	6.7 CY
Total Volume = 46.7 CY + 6.7 CY = 53.4 CY =	54 CY



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<u>511E43510</u>	CLASS QC1 CONCRET	E, ABUTMENT INCLUDING FOOTING		<u>UNITS =</u> CY
Rear Abutment				
	Footing			
Area =	139.50 SF			
Thickness =	3.00 FT	Volume = 139.5 SF X 3 FT / 27 =	15.50	CY
	Beam Seat			
Area =	111.89 SF			
Thickness =	3.00 FT	Volume = (111.89 SF X 3 FT) / 27 =	12.44	CY
	Wingwalls			
Left WW Area =	33.54 SF			
Right WW Area =	39.35 SF			
Thickness =	2.50 FT	Volume = (33.54 SF + 39.35 SF) X 2.5 FT / 27 =	6.75	CY
Forward Abutme	nt			
	Footing			
Area =	142.50 SF			
Thickness =	3.00 FT	Volume = (142.5 SF X 3 FT) / 27 =	15.84	CY
	Beam Seat			
Area =	89.89 SF			
Thickness =	3.00 FT	Volume = (89.89 SF X 3 FT) / 27 =	9.99	CY
	Wingwalls			
Left WW Area =	33.17 SF			
Right WW Area =	32.94 SF			
Thickness =		Volume = (33.17 SF + 32.94 SF) X 2.5 FT / 27 =	6.12	CY
Total	Volume = 15.5 CY + 12.	44CY + 6.75 CY + 15.84 CY + 9.99CY + 6.12 CY =	67	СУ



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<u>512E10050</u>	SEALING OF CONCRETE SURFACES (I	NON-EPOXY)	<u>UNITS =</u> SY
Rear Abutment			
Left WW		Right WW	
Far Face	3.17 SF (measured in CAD)	Far Face = 3.75 SF (measured	d in CAD)
Near Face	= 24.34 SF (measured in CAD)	Near Face = 28.45 SF (measured	-
Тор		Top = 19.63 SF (measured	l in CAD)
End Face	= 6.33 SF	End Face= 6.33 SF	
Under Superstructure			
Inside	= 64.44 SF (measured in CAD)		
End Face	= 1.60 SF		
Forward Abutment			
Left WW		Right WW	
Far Face		Far Face = 3.72 SF (measured	-
Near Face		Near Face = 22.14 SF (measured	· ·
Тор	` ` '	Top = 19.88 SF (measured	d in CAD)
End Face	= 3.83 SF	End Face = 3.83 SF	
Under Superstructure			
Inside	= 42.51 SF (measured in CAD)		
End Face	= 0.95 SF		
Abut. Total = (3.17 SF + 24.34 SF + 16.94 SF + 6.33 SF + 64.44 SF + 1.6 SF + 3.75 SF + 28.45 SF + 19.63 SF + 6.33 SF + 3.72 SF + 22.37 SF + 19.8 SF + 3.83 SF + 3.83 SF + 42.51 SF + 0.95 SF + 3.72 SF + 22.14 SF + 19.88 SF + 3.83 SF) / 9 =			
Superstructure Perimeter Length			
Super. Total	= 2 x (2.69 SF X 58 FT) / 9 =		35 SY
<u>512E33000</u>	TYPE 2 WATERPROOFING		<u>UNITS =</u> SY
Rear LT Rear RT Fwd RT Fwd LT	= 21.49 SF = 20.49 SF		
Total	= (18.2 SF + 21.49 SF + 20.49 SF + 20.67	SF) / 9 =	9 SY



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515E12050 PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, UNITS = EACH CB21-48 Length = 61 FΤ Quantity = EACH 516E13900 **2" PREFORMED EXPANSION JOINT FILLER** UNITS = SF Width = 2.50 FT Rear Rt Height = 2.69 FT 2.69 FT Rear Lt Height = Fwd Rt Height = 2.69 FT Fwd Lt Height = 2.69 FT Area = 2.5 FT X (2.69 FT + 2.69 FT + 2.69 FT + 2.69 FT) = 27 SF 516E14020 **SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL** <u>UNITS = FT</u> Rear Abutment Hor. Length = 35.66 FT 3.02 FT Vert Length (LT) = 3.02 FT Vert Length (RT) = Length = 35.66 ft + 3.02 ft + 3.02 ft = 41.70 FT Forward Abutment 35.62 FT Hor. Length = 3.02 FT Vert Length (LT) = Vert Length (RT) = 3.02 FT Length = 35.62 ft + 3.02 ft + 3.02 ft = 41.66 FT 41.7 FT + 41.66 FT = Total Length = 84



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516E43200 ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE)	<u>UNITS =</u> EACH
Number Beams = 8 EACH Number / Beam = 4 EACH		
Total Number =	8 beam x 4 each = 32	EACH



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517E70100 **RAILING (THREE STEEL TUBE BRIDGE RAILING)** <u>UNITS = FT</u>

Bridge Superstructure

69.00 FT (measured in CAD) Left Rail = Right Rail = 69.00 FT (measured in CAD)

Total Length = 69 FT + 69 FT =

138 FT



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518E40000 6" PERFORATED CORRUGATED PLASTIC PIPE

<u>UNITS = FT</u>

Rear Abutment
Length = 56.50 FT

Fwd Abutment
Length = 57.50 FT

114 F

518E40010 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS

UNITS = FT

Rear Abutment
Length = 8.22 FT

Fwd Abutment
Length = 8.22 FT

33 FT

518E21200 POROUS BACKFILL WITH GEOTEXTILE FABRIC

UNITS = CY

Downstream

Area = 358.08 SF

Thickness = 2 FT

Area = 1.67 SF

Length= 32.67 FT

| Upstream | 330.8 SF | Thickness = | 2 FT | Area = | 1.67 SF | Length = | 32.63 FT |

Total = (358.08 SF x 2 FT + 1.67 SF x 32.67 FT + 330.8 SF x 2 FT + 1.67 SF x 32.63 FT) / 27 =

56 CY



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<u>524E94702</u>	DRILLED SHAFTS, 36	" DIAMETER, ABOVE BEDROCK	<u>UNITS =</u> FT
Rea	r Abutment		
Ftg Elev.	= 624.25 FT		
Top of Rock	= 598.60 FT	From B-003-0-21 boring log	
Number			
Length, 1 Shaft :	= 26.0 FT	Rounded up to the nearest foot.	
Total Length			
	vard Abutment		
Ftg Elev.			
Top of Rock		From B-004-0-21 boring log	
Number			
Length, 1 Shaft :		Rounded up to the nearest foot.	
Total Length	= 108 FT		
Total Length	= 104 FT + 108 FT =		212 FT
<u>524E94604</u>	DDILLED CHAETS 20	" DIAMETER, INTO BEDROCK	<u>UNITS =</u> FT
<u>324E34604</u>	DRILLED SHAFTS, 30	DIAINETER, INTO BEDROCK	<u>01113 -</u> F1
Number Shafts	= 4 per abut		
Number abuts :	•		
Length, 1 Shaft :			
Total Length			
Total Length	=		30 FT
			.



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<u>526E10000</u>	REINFORCED CONCRETE APPROACH SLABS (T=12")	<u>UNITS =</u> SY
Rear Approach Area		
Fwd Approach S Area		
Total Area	a = 484.35 SF + 484.35 SF / 9 =	108 SY
<u>526E90010</u>	TYPE A INSTALLATION	<u>UNITS =</u> FT
Rear Approach Length		
Fwd Approach S Length	Slab h = <u>32.29</u> FT	
		65 FT



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<u>UNITS =</u> CY

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601E32110 ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER

Plan View Areas (SF):

Rear Upstream 347.1 669.8 682.5 Χ 1.1181 168.7 485.1 413.3 Χ 1 401.2 526.4 Downstream Χ 1.1181 669.2 Forward

Slope Factor = $(1/\cos(\arctan(1/2))) = 1.1181$

Thickness = 2.50 FT

Total Volume = [(347.1 SF + 669.8 SF + 682.5 SF + 401.2 SF + 669.2 SF + 526.4 SF) X 1.1181 + (168.7 SF + 485.1 SF + 413.3SF)] X 2.5 FT / 27 =

441

CY



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7/8/24 CHK. BY: COMP. BY: NFS DATE: POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM 846E00110 <u>UNITS =</u> CF Approach Slab Width: 32.00 FΤ Width: 20.00 ΙN 3.00 ΙN Thickness: 27 CF Total Volume = (32 FT X 20 IN X 3) / 144 =