

ROS-138-10.33 Final Structure Quantities

By: AJE, CHK: NCK Date: 06/29/2022

Item 202 - Approach Slab Removed

Length	15	ft	<i>existing</i>
Width	20	ft	<i>existing</i>
Number	2	ea	
Total	67	SY	

Item 202 - Wearing Course Removed

Length	97.5	ft	<i>existing length</i>
Width	32	ft	<i>existing width</i>
Total	347	SY	

Item 202 - Structure Removed

Total	1	ea
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Item 503 - Unclassified Excavation

Total	1	ea
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Item 503 - Unclassified Excavation

Total	1	ea
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Item 503 - Cofferdams & Excavation Bracing

Total	1	ea
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Item 505 - Pile Driving and Equipment Mobilization

Total	1	ea
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Item 507 - Piles Driven and Furnished

RA Pile #	18	ea
RA Pile Length (Order)	60.00	ft
RA Pile Length (Driven)	55.00	ft
FA Pile #	16	ea
FA Pile Length (Order)	60.00	ft
FA Pile Length (Driven)	55.00	ft
Furnished Total	2040	ft
Driven Total	1870	ft

Item 509 - Epoxy Coated Reinforcing Steel

Abutment Reinforcing	12933	lb	
Abutment Diaphragm Reinf	5555	lb	
Deck Reinf	26938	lb	
App. Slab Reinf	19000	lb	<i>for information only - not in total</i>
Total	45426	lb	

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Item 511 - Superstructure Concrete, Class QC2

Main Thickness	0.708	ft	8.5"
Main Width	32	ft	deck width
Length	87.83	ft	
Haunch Thickness	0.25	ft	assume 3" constant
Haunch Width	4.083	ft	top of beam
Number Haunches	4	ea	number of beam
Slab Total	88	CY	

Item 511 - Substructure Concrete, Class QC1

Abutment Height	8	ft	
Abutment Length	34.05	ft	bridge width on skew
Abutment Thickness	4.83	ft	
Wingwall Length	12.66	ft	average
Wingwall Thickness	2.5	ft	
Number of Abutments	2	ea	
Abutment Ftg Width	6	ft	
Abutment Ftg Height	3	ft	
Abutment Total	168	CY	

Item 511 - Semi-integral Diaphragm Guide

No. Per Abutment	1	ea	
No. Abutment	2	ea	
Total	2	ea	

Item 512 - Type 2 Waterproofing

Height	11.5	ft	
Width	3	ft	
Number	2	ea	
Total	8	SY	

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Item 512 - Sealing of Concrete Surfaces

Abutment & Wingwall

Forward	352.00	sf	<i>CAD Measured</i>
Rear	362.00	sf	<i>CAD Measured</i>
Top of Wall, Width	2.50	ft	
Wingwall Total Length	49.53	ft	
Area	124	sf	

Beams

Beam Perimeter	12.50	ft
Length Beams	89.50	ft
# Beams	4	ea
Area	4475	sf
Total	511	SY

Item 512 - HMWM Seal

Length	87.83	ft	<i>length of bridge</i>
Width	2.00	ft	
Number	2	ea	
Total	40	SY	

Item 515 - Prestressed Concrete Beams

Number of Beams	4	ea
Total	4	ea

Item 515 - Intermediate Diaphragms

Number of Locations	3	ea	<i>located at quarter points</i>
Number of Bays	3	ea	
Total	9	ea	

Item 516 - Semi-Integral Expansion Joint Seal

Length	34.05	ft	<i>bridge width on skew</i>
Number	2	ea	<i>each end</i>
Total	68.11	ft	

Item 516 - Elastomeric Bearings

Bearings Per Abut	4	ea
Number Abut	2	ea
Total	8	ea

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Item 516 - 1" Preformed Expansion Joint Filler

Length	34.05	ft	<i>bridge width on skew</i>
Width	1.00	ft	
Number	2	ea	
Total	68.11	sf	

Item 516 - 2" Preformed Expansion Joint Filler

Length	4.83	ft	<i>integral diaphragm height</i>	
Width	4.96	ft		<i>integral diaphragm width</i>
Number	4	ea		<i>each end of diaphragm</i>
Total at Wingwall	95.87	sf		

Item 517 - Three Tube Railing

Length Per Side	95.89	ft	<i>from fence post calculations</i>
Number	2	ea	
Total	192	ft	

Item 518 - Drip Strip

Length Along Slab	82.92	ft	<i>Drip Strip only on clear slab</i>
Number of Posts	11.00	ea	
Turn Up at Post	1.50	ft	
Number of Sides	2	ea	
Total	199	ft	

Item 518 - Porous Backfill

Height	8.00	ft	<i>Bottom of approach slab, top of ftg</i>	
Width	3.00	ft		<i>per standard</i>
Length	34.05	ft		<i>bridge width on skew</i>
Number	2	ea		<i>each abutment</i>
Total	61	CY		

Item 518 - Perforated Corrugated Plastic Pipe

Length	128	ft	<i>Length of wingwalls plus abutments with 2' extra per side (8' total extra)</i>
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Item 518 - Non-Perforated Corrugated Plastic Pipe

Length	36	ft	<i>assume 9' segments to outlet</i>
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Item 526 - Approach Slab

Length	25	ft
Width	32	ft
Number	2	ea

Total 178 SY

Item 526 - Type A Installation

Length	34.05	ft
Number	2	ea

bridge width on skew

Total 68.11 ft

Item 846 - Polymer Modified Joint

Length	34.05	ft
Width	1.67	ft
Thick	0.25	ft
Number	2	ea

*bridge width on skew
per standard drawing*

Total 28.38 CF