



Project WAY-250-19.26
Description Stage 2/3 Estimated Quantities

Computed By KSC **Date** 8/9/18
Checked By TMR **Date** 8/28/18

ITEM 503E21100 - UNCLASSIFIED EXCAVATION

UNIT: CY

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
184			

Per ODOT CMS 503.09, method of measurement is:

- Bounded on the bottom by the bottom plans of the footing, crossbeam, or wall.
- Bounded on the top by the surface of the existing ground
(fill, if excavation is performed prior to embankment placement).
- Bounded on the sides by 1 foot outside the outer edge of the footing, crossbeam, or wall.

Rear Abutment Excavation

B/ Footing Elevation	=	1016.26	
Ex. Ground Elevation	=	1024.10	
Footing Width	=	3 ft	0.0 in = 3.0 ft
Offset from Footing	=	1 ft	0.0 in = 1.0 ft
Abutment Length	=	61 ft	0.0 in = 61.0 ft
Subtotal Volume	=	2470 ft ³	
Subtotal Volume	=	91.47 yd ³	

Fwd Abutment Excavation

B/ Footing Elevation	=	1015.49	
Ex. Ground Elevation	=	1023.42	
Footing Width	=	3 ft	0.0 in = 3.0 ft
Offset from Footing	=	1 ft	0.0 in = 1.0 ft
Abutment Length	=	61 ft	0.0 in = 61.0 ft
Subtotal Volume	=	2498 ft ³	
Subtotal Volume	=	92.52 yd ³	

Total Volume (Rounded) = 184.00 yd³

Sheet 1 of 1 Subtotal: 184 CY
Total All Sheets: 184 CY



Project WAY-250-19.26
 Description Stage 2/3 Estimated Quantities

Computed By KSC Date 8/9/18
 Checked By TMR Date 8/28/18

ITEM 507E00801 - 18" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN, AS PER PLAN UNIT: FT

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
720	945		

Rear Abutment Piles

Number of Piles	=	8.00
Bottom of Footing Elevation	=	1016.26
Pile Tip Elevation	=	979.50
Embedment into Footing	=	2 ft 0.0 in = 2.0 ft
Driven Length per Pile	=	40.00 ft
Subtotal Length	=	320.00 ft

Pier 1 Piles

Number of Piles	=	9.00
Bottom of Footing Elevation	=	1020.02
Pile Tip Elevation	=	981.00
Embedment into Footing	=	1 ft 6.0 in = 1.5 ft
Driven Length per Pile	=	45.00 ft
Subtotal Length	=	405.00 ft

Pier 2 Piles

Number of Piles	=	9.00
Bottom of Footing Elevation	=	1019.67
Pile Tip Elevation	=	962.80
Embedment into Footing	=	1 ft 6.0 in = 1.5 ft
Driven Length per Pile	=	60.00 ft
Subtotal Length	=	540.00 ft

Forward Abutment Piles

Number of Piles	=	8.00
Bottom of Footing Elevation	=	1015.49
Pile Tip Elevation	=	970.80
Embedment into Footing	=	2 ft 0.0 in = 2.0 ft
Driven Length per Pile	=	50.00 ft
Subtotal Length	=	400.00 ft

Abutments Total Length	=	720.00 ft
Piers Total Length	=	945.00 ft
Total Length	=	1665.00 ft

Sheet 1 of 1 Subtotal: 1665 FT

Total All Sheets: 1665 FT



Project WAY-250-19.26
 Description Stage 2/3 Estimated Quantities

Computed By KSC Date 8/9/18
 Checked By TMR Date 8/28/18

ITEM 507E00850 - 18" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED UNIT: FT

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
800	1,035		

Rear Abutment Piles

Number of Piles	=	8.00
Driven Length per Pile	=	40.00
Additional Order Length	=	5 ft 0.0 in = 5.0 ft
Subtotal Length	=	360.00 ft

Pier 1 Piles

Number of Piles	=	9.00
Driven Length per Pile	=	45.00
Additional Order Length	=	5 ft 0.0 in = 5.0 ft
Subtotal Length	=	450.00 ft

Pier 2 Piles

Number of Piles	=	9.00
Driven Length per Pile	=	60.00
Additional Order Length	=	5 ft 0.0 in = 5.0 ft
Subtotal Length	=	585.00 ft

Forward Abutment Piles

Number of Piles	=	8.00
Driven Length per Pile	=	50.00
Additional Order Length	=	5 ft 0.0 in = 5.0 ft
Subtotal Length	=	440.00 ft

Abutments Total Length	=	800.00 ft
Piers Total Length	=	1035.00 ft
Total Length	=	1835.00 ft

Sheet 1 of 1 Subtotal: 1835 FT
 Total All Sheets: 1835 FT



Project WAY-250-19.26
Description Stage 2/3 Estimated Quantities

Computed By KSC **Date** 8/9/18
Checked By TMR **Date** 8/28/18

ITEM 509E10000 - EPOXY COATED REINFORCING STEEL

UNIT: LB

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
8,954	2,648	55,631	

Abutment Rebar

Abutment Total = **8,954** lb

Pier Rebar

Pier Total = **2,648** lb

Superstructure Rebar

Superstructure Total = **55,631** lb

Total Weight = **67,233** lb

Sheet 1 of 1 Subtotal: 67233 LB

Total All Sheets: 67233 LB



Project WAY-250-19.26
 Description Stage 2/3 Estimated Quantities

Computed By KSC Date 8/9/18
 Checked By TMR Date 8/28/18

ITEM 511E32212 - CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE UNIT: CY

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
		249	

Bridge Limits	=	86 ft	6.625 in	=	86.552 ft
Deck Width	=	45 ft	0.0 in	=	45.0 ft
Deck Thickness	=	1 ft	6.0 in	=	1.5 ft
Slab Volume	=	5842.27 ft ³			

Sidewalk Min Thickness	=	0 ft	8.0 in	=	0.667 ft
Sidewalk Max Thickness	=	0 ft	10.875 in	=	0.906 ft
Sidewalk Width	=	6 ft	0.0 in	=	6.0 ft
Railing Width	=	1 ft	0.0 in	=	1.0 ft
Overhang Width	=	0 ft	2.0 in	=	0.167 ft
Sidewalk Volume	=	487.83 ft ³			

End Diaphragm Thickness	=	2 ft	3.0 in	=	2.25 ft
End Diaphragm Height	=	1 ft	6.0 in	=	1.5 ft
End Diaphragm Width	=	46 ft	7.0 in	=	46.583 ft
Number of Abutments	=	2 ea			
End Diaphragm Volume	=	314.44 ft ³			

Side Diaphragm Thickness	=	2 ft	3.0 in	=	2.25 ft
Side Diaphragm Avg Height	=	3 ft	2.22 in	=	3.185 ft
Side Diaphragm Width	=	1 ft	6.0 in	=	1.5 ft
Number of Abutments	=	2 ea			
Side Diaphragm Volume	=	21.50 ft ³			

Side Diaphragm Thickness	=	2 ft	3.0 in	=	2.25 ft
Side Diaphragm Avg Height	=	3 ft	2.22 in	=	3.185 ft
Side Diaphragm Width	=	1 ft	0.0 in	=	1.0 ft
Number of Abutments	=	2 ea			
Side Diaphragm Volume	=	14.33 ft ³			

Crown Min Height	=	0 ft	0.0 in	=	0.0 ft
Cross Slope	=	1.11%			
Left of Crown Width	=	26 ft	11.0 in	=	26.917 ft
Crown Max Height	=	0 ft	3.5905 in	=	0.299 ft
Right of Crown Width	=	19 ft	8.0 in	=	19.667 ft
Crown Right Height	=	0 ft	0.9671 in	=	0.081 ft
Crown Thickness	=	1 ft	9.0 in	=	1.75 ft

Number of Abutments	=	2 ea			
Crown Volume	=	27.17 ft ³			

Superstructure Volume	=	6707.53 ft ³			
Superstructure Volume	=	248.43 yd ³			
Superstructure Volume (rounded)	=	249.00 yd ³			

Sheet 1 of 1 Subtotal: 249 CY
 Total All Sheets: 249 CY



Project WAY-250-19.26
 Description Stage 2/3 Estimated Quantities

Computed By KSC Date 8/9/18
 Checked By TMR Date 8/28/18

ITEM 511E42510 - CLASS QC1 CONCRETE, PIER CAP

UNIT: CY

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
	22		

Pier Height	=	2 ft	0.0 in	=	2.0 ft
Pier Cap Width	=	45 ft	0.0 in	=	45.0 ft
Pier Cap Thickness	=	3 ft	0.0 in	=	3.0 ft
Slab Volume	=	270.00 ft ³			
Crown Min Height	=	0 ft	0.0 in	=	0.0 ft
Cross Slope (along skew)	=	1.11%			
Left of Crown Width	=	26 ft	2.125 in	=	26.177 ft
Crown Max Height	=	0 ft	3.4918 in	=	0.291 ft
Right of Crown Width	=	18 ft	11.125 in	=	18.927 ft
Crown Right Height	=	0 ft	0.9671 in	=	0.081 ft
Crown Thickness	=	3 ft	0.0 in	=	3.0 ft
Crown Volume	=	21.97 ft ³			
Volume per Pier	=	291.97 ft ³			
Number of Piers	=	2 ea			
Piers Total Volume	=	583.95 ft ³			
Piers Total Volume	=	21.63 yd ³			
Piers Volume (rounded)	=	22.00 yd ³			

Sheet 1 of 1 Subtotal: 22 CY

Total All Sheets: 22 CY



Project WAY-250-19.26
 Description Stage 2/3 Estimated Quantities

Computed By KSC Date 8/9/18
 Checked By TMR Date 8/28/18

ITEM 511E43510 - CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING

UNIT: CY

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
61			

Footing Width = 61 ft 0.0 in = 61.0 ft

Footing Height = 3 ft 0.0 in = 3.0 ft

Footing Thickness = 3 ft 0.0 in = 3.0 ft

Footing Volume = 549.00 ft³

Stem Width = 61 ft 0.0 in = 61.0 ft

Stem Height = 1 ft 6.0 in = 1.5 ft

Stem Thickness = 2 ft 3.0 in = 2.25 ft

Stem Volume = 205.88 ft³

Wingwall Min Height (Avg.) = 1 ft 1.5 in = 1.125 ft

Wingwall Max Height (Avg.) = 3 ft 2.22 in = 3.185 ft

Wingwall Thickness = 2 ft 3.0 in = 2.25 ft

Wingwall Slope Widths

Left Rear = 3 ft 11.625 in = 3.969 ft

Right Rear = 4 ft 1.0 in = 4.083 ft

Left Forward = 4 ft 9.625 in = 4.802 ft

Right Forward = 4 ft 1.0 in = 4.083 ft

Wingwall Level Widths (Average)

Left Rear = 1 ft 5.625 in = 1.469 ft

Right Rear = 2 ft 2.0 in = 2.167 ft

Left Forward = 1 ft 2.875 in = 1.24 ft

Right Forward = 1 ft 7.375 in = 1.615 ft

Wingwall Areas

Left Rear = 29.77 ft³

Right Rear = 35.33 ft³

Left Forward = 32.17 ft³

Right Forward = 31.37 ft³

Rear Abutment Volume = 819.97 ft³

Forward Abutment Volume = 818.41 ft³

Total Abutment Volume = 1638.38 ft³

Total Abutment Volume = 60.68 yd³

Total Abutment Volume = 61.00 yd³

Sheet 1 of 1 Subtotal: 61 CY

Total All Sheets: 61 CY



Project WAY-250-19.26
 Description Stage 2/3 Estimated Quantities

Computed By KSC Date 8/9/18
 Checked By TMR Date 8/28/18

ITEM 512E10050 - SEALING OF CONCRETE SURFACES (NON-EPOXY) UNIT: SY

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
		65	31

Superstructure Curb/Sidewalk

Bridge Limits	=	86 ft	6.625 in	=	86.552 ft
Sidewalk Width	=	6 ft	0.0 in	=	6.0 ft
Curb Height	=	0 ft	8.0 in	=	0.667 ft
Sidewalk Sealed Width	=	6 ft	8.0 in	=	6.667 ft

Superstructure Sealed Area	=	577.01 ft ²
Superstructure Sealed Area	=	64.11 yd ²
Total SSTR Sealed Area (rounded)	=	65.00 yd ²

Approach Slab Curb/Sidewalk

Rear Approach Slab Limits	=	20 ft	6.625 in	=	20.552 ft
Forward Approach Slab Limits	=	20 ft	6.0 in	=	20.5 ft
Sidewalk Width	=	6 ft	0.0 in	=	6.0 ft
Curb Height (Avg.)	=	0 ft	7.0 in	=	0.583 ft
Sidewalk Sealed Width	=	6 ft	7.0 in	=	6.583 ft

Superstructure Sealed Area	=	270.26 ft ²
Superstructure Sealed Area	=	30.03 yd ²
Total SSTR Sealed Area (rounded)	=	31.00 yd ²

Sheet 1 of 1 Subtotal: 96 SY



Project WAY-250-19.26
 Description Stage 2/3 Estimated Quantities

Computed By KSC Date 8/9/18
 Checked By TMR Date 8/28/18

ITEM 512E10100 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) UNIT: SY

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
22		118	37

Stem Width	=	61 ft	0.0 in	=	61.0 ft
Stem Exposed Height (min)	=	0 ft	6.0 in	=	0.5 ft
Stem Thickness	=	2 ft	3.0 in	=	2.25 ft
Stem Sealed Area	=	30.50 ft ²			
Wingwall Min Height (Avg.)	=	1 ft	1.5 in	=	1.125 ft
Wingwall Max Height (Avg.)	=	3 ft	2.22 in	=	3.185 ft
Wingwall Thickness	=	2 ft	3.0 in	=	2.25 ft
Wingwall Back Exposed Area	=	0 ft	6.0 in	=	0.5 ft
Stem/Wingwall End Sealed Area	=	4.78 ft ²			

Wingwall Sloped Widths

Left Rear	=	3 ft	11.625 in	=	3.969 ft
Right Rear	=	4 ft	1.0 in	=	4.083 ft
Left Forward	=	4 ft	9.625 in	=	4.802 ft
Right Forward	=	4 ft	1.0 in	=	4.083 ft

Wingwall Level Widths (Average)

Left Rear	=	1 ft	5.625 in	=	1.469 ft
Right Rear	=	2 ft	2.0 in	=	2.167 ft
Left Forward	=	1 ft	2.875 in	=	1.24 ft
Right Forward	=	1 ft	7.375 in	=	1.615 ft

Wingwall Front Sealed Area

Left Rear	=	13.23 ft ²			
Right Rear	=	15.70 ft ²			
Left Forward	=	14.30 ft ²			
Right Forward	=	13.94 ft ²			

Wingwall Top Sealed Area

Left Rear	=	13.37 ft ²			
Right Rear	=	15.17 ft ²			
Left Forward	=	14.55 ft ²			
Right Forward	=	13.92 ft ²			

Wingwall Back Sealed Area

Left Rear	=	2.97 ft ²			
Right Rear	=	3.37 ft ²			
Left Forward	=	3.23 ft ²			
Right Forward	=	3.09 ft ²			

Rear Abutment Sealed Area	=	99.08 ft ²			
Forward Abutment Sealed Area	=	98.32 ft ²			

Total Abutment Sealed Area	=	197.40 ft ²			
Total Abutment Sealed Area	=	21.93 yd ²			

Total Abutment Sealed Area (rounded)	=	22.00 yd ²			
--------------------------------------	---	-----------------------	--	--	--

Sheet 1 of 2 Subtotal: 22 SY



Project WAY-250-19.26
 Description Stage 2/3 Estimated Quantities

Computed By KSC Date 8/9/18
 Checked By TMR Date 8/28/18

ITEM 512E10100 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) UNIT: SY

Superstructure			
Bridge Limits	=	86 ft 6.625 in	= 86.552 ft
Deck Thickness	=	1 ft 6.0 in	= 1.5 ft
Deck Underside Sealed Width	=	0 ft 6.0 in	= 0.5 ft
Sidewalk Offset	=	0 ft 2.0 in	= 0.167 ft
Sidewalk Fascia Depth	=	0 ft 10.875 in	= 0.906 ft
Railing Height	=	2 ft 0.0 in	= 2.0 ft
Railing Width	=	1 ft 0.0 in	= 1.0 ft
Left Fascia Sealed Perimeter	=	8 ft 2.875 in	= 8.24 ft
Right Fascia Sealed Perimeter	=	2 ft 0.0 in	= 2.0 ft
Fascias Sealed Area	=	886.26 ft ²	
End Diaphragm Height	=	1 ft 6.0 in	= 1.5 ft
End Diaphragm Width	=	46 ft 7.0 in	= 46.583 ft
Number of Abutments	=	2 ea	
End Diaphragm Area	=	139.75 ft ²	
Side Diaphragm Height	=	3 ft 2.22 in	= 3.185 ft
Right Side Diaphragm Width	=	1 ft 6.0 in	= 1.5 ft
Left Side Diaphragm Width	=	1 ft 0.0 in	= 1.0 ft
Number of Abutments	=	2 ea	
Side Diaphragm Area	=	15.93 ft ²	
Crown Min Height	=	0 ft 0.0 in	= 0.0 ft
Cross Slope (along skew)	=	1.11%	
Left of Crown Width	=	26 ft 11.0 in	= 26.917 ft
Crown Max Height	=	0 ft 3.5905 in	= 0.299 ft
Right of Crown Width	=	19 ft 8.0 in	= 19.667 ft
Crown Right Height	=	0 ft 0.9671 in	= 0.081 ft
Number of Abutments	=	2 ea	
Crown Area	=	15.52 ft ²	
Superstructure Sealed Area	=	1057.46 ft ²	
Superstructure Sealed Area	=	117.50 yd ²	
Total SSTR Sealed Area (rounded)	=	118.00 yd ²	
Approach Slab Railings			
Rear Approach Slab Railing Length	=	13 ft 6.625 in	= 13.552 ft
Forward Approach Slab Railing Length	=	13 ft 6.0 in	= 13.5 ft
Barrier Transition Length	=	6 ft 6.0 in	= 6.5 ft
Exposed Approach Slab Thickness	=	0 ft 6.0 in	= 0.5 ft
Sidewalk Offset	=	0 ft 2.0 in	= 0.167 ft
Sidewalk Fascia Depth (Avg.)	=	0 ft 10.0 in	= 0.833 ft
Railing Height	=	2 ft 0.0 in	= 2.0 ft
Railing Width	=	1 ft 0.0 in	= 1.0 ft
Transition Height	=	3 ft 6.0 in	= 3.5 ft
Railing Sealed Perimeter	=	7 ft 0.0 in	= 7.0 ft
Transition Sealed Perimeter	=	10 ft 0.0 in	= 10.0 ft
Approach Slab Railings Sealed Area	=	329.36 ft ²	
Approach Slab Railings Sealed Area	=	36.60 yd ²	
Total AS Railing Sealed Area (rounded)	=	37.00 yd ²	
			Sheet 2 of 2 Subtotal: 155 SY
			Total All Sheets: 177 SY



Project WAY-250-19.26
Description Stage 2/3 Estimated Quantities

Computed By KSC **Date** 8/9/18
Checked By TMR **Date** 8/28/18

#N/A

#N/A

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
		39	

Bridge Limits	=	86 ft	6.625 in	=	86.552 ft
HMWM Width	=	2 ft	0.0 in	=	2.0 ft
Number of Phase Lines	=	2			
HMWM Area	=	346.21 ft ²			
HMWM Area	=	38.47 yd ²			
HMWM Area (rounded)	=	39.00 yd ²			

#

#



Project WAY-250-19.26
Description Stage 2/3 Estimated Quantities

Computed By KSC **Date** 8/9/18
Checked By TMR **Date** 8/28/18

ITEM 512E33000 - TYPE 2 WATERPROOFING

UNIT: SY

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
1		2	

Stem Height	=	1 ft	6.0 in	=	1.5 ft
Approach Slab Seat Height	=	1 ft	6.0 in	=	1.5 ft
Number of Abutment Phase Lines	=	1			
Number of Deck Phase Lines	=	2			
Waterproofing Width	=	3 ft	0.0 in	=	3.0 ft
Number of Abutments	=	2			
Waterproofing Area	=	27.00 ft ²			
Waterproofing Area	=	3.00 yd ²			
Waterproofing Area (rounded)	=	3.00 yd ²			

Sheet 1 of 1 Subtotal: 3 SY

Total All Sheets: 3 SY



Project WAY-250-19.26
Description Stage 2/3 Estimated Quantities

Computed By KSC **Date** 8/9/18
Checked By TMR **Date** 8/28/18

ITEM 516E13200 - 1/2" PREFORMED EXPANSION JOINT FILLER

UNIT: SF

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
		74	

PEJF Length = 49 ft 3.75 in = 49.313 ft

PEJF Width = 0 ft 9.0 in = 0.75 ft

Number of Abutments = 2

PEJF Area = 73.97 ft²

PEJF Area (rounded) = 74.00 ft²

Sheet 1 of 1 Subtotal: 74 SF

Total All Sheets: 74 SF



Project WAY-250-19.26
Description Stage 2/3 Estimated Quantities

Computed By KSC **Date** 8/9/18
Checked By TMR **Date** 8/28/18

ITEM 516E13600 - 1" PREFORMED EXPANSION JOINT FILLER

UNIT: SF

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
		95	

PEJF Length	=	49 ft	3.75 in	=	49.313 ft
PEJF Width	=	0 ft	8.0 in	=	0.667 ft
Avg PEJF Height	=	3 ft	2.22 in	=	3.185 ft
PEJF Width	=	2 ft	3.0 in	=	2.25 ft

Number of Abutments	=	2
PEJF Area	=	94.42 ft ²
PEJF Area (rounded)	=	95.00 ft ²

Sheet 1 of 1 Subtotal: 95 SF

Total All Sheets: 95 SF



Project WAY-250-19.26
Description Stage 2/3 Estimated Quantities

Computed By KSC **Date** 8/9/18
Checked By TMR **Date** 8/28/18

ITEM 516E14014 - INTEGRAL ABUTMENT EXPANSION JOINT SEAL

UNIT: FT

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
121			

Wingwall Max Height (Avg.)	=	3 ft	2.22 in	=	3.185 ft
Clear from Top of Wingwall	=	0 ft	9.0 in	=	0.75 ft
Seal Extension beyond Joint	=	1 ft	6.0 in	=	1.5 ft
Abutment Seat Length	=	49 ft	3.75 in	=	49.313 ft
Number of Vertical Joints	=	2			
Number of Abutments	=	2			
Joint Seal Length	=	120.37 ft			
Joint Seal Length (rounded)	=	121.00 ft			

Sheet 1 of 1 Subtotal: 121 FT

Total All Sheets: 121 FT



Project WAY-250-19.26
Description Stage 2/3 Estimated Quantities

Computed By KSC **Date** 8/9/18
Checked By TMR **Date** 8/28/18

ITEM 517E70000 - RAILING (TWIN STEEL TUBE)

UNIT: FT

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
		91	

End Post to End Post Length = 85 ft 3.0 in = 85.25 ft

Additional Length per End = 2 ft 5.5 in = 2.458 ft

TST Length = 90.17 ft

TST Length (rounded) = 91.00 ft

Sheet 1 of 1 Subtotal: 91 FT

Total All Sheets: 91 FT



Project WAY-250-19.26
Description Stage 2/3 Estimated Quantities

Computed By KSC **Date** 8/9/18
Checked By TMR **Date** 8/28/18

ITEM 517E75120 - RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING) UNIT: FT

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
		87	40

Bridge Limits	=	86 ft	6.625 in	=	86.552 ft
Rear Approach Slab	=	20 ft	0.0 in	=	20.0 ft
Forward Approach Slab	=	20 ft	0.75 in	=	20.063 ft

TST Length (Superstructure)	=	86.55 ft
TST Length (Approach Slabs)	=	40.06 ft
Total Length (rounded)	=	127.00 ft

Sheet 1 of 1 Subtotal: 127 FT

Total All Sheets: 127 FT



Project WAY-250-19.26
 Description Stage 2/3 Estimated Quantities

Computed By KSC Date 8/9/18
 Checked By TMR Date 8/28/18

ITEM 518E21200 - POROUS BACKFILL WITH GEOTEXTILE FABRIC

UNIT: CY

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
53			

Porous Backfill Thickness	=	2 ft	0.0 in	=	2.0 ft
Footing Width	=	61 ft	0.0 in	=	61.0 ft
Footing Height	=	3 ft	0.0 in	=	3.0 ft
Footing Area	=	183.00 ft ²			
Stem Width	=	61 ft	0.0 in	=	61.0 ft
Stem Height	=	1 ft	6.0 in	=	1.5 ft
Stem Area	=	91.50 ft ²			
Wingwall Min Height	=	1 ft	1.5 in	=	1.125 ft
Wingwall Max Height (Avg.)	=	3 ft	2.22 in	=	3.185 ft
Top of Backfill Depth Below T/ W.W.	=	1 ft	6.0 in	=	1.5 ft
Wingwall Slope Widths					
Left Rear	=	3 ft	11.625 in	=	3.969 ft
Right Rear	=	4 ft	1.0 in	=	4.083 ft
Left Forward	=	4 ft	9.625 in	=	4.802 ft
Right Forward	=	4 ft	1.0 in	=	4.083 ft
Wingwall Level Widths (Average)					
Left Rear	=	1 ft	5.625 in	=	1.469 ft
Right Rear	=	2 ft	2.0 in	=	2.167 ft
Left Forward	=	1 ft	2.875 in	=	1.24 ft
Right Forward	=	1 ft	7.375 in	=	1.615 ft
Wingwall Area					
Left Rear	=	5.07 ft ²			
Right Rear	=	6.33 ft ²			
Left Forward	=	5.23 ft ²			
Right Forward	=	5.40 ft ²			
End Diaphragm Height	=	1 ft	6.0 in	=	1.5 ft
End Diaphragm Width (Along CL Abut)	=	46 ft	7.0 in	=	46.583 ft
Superstructure Area	=	69.88 ft ²			
Rear Abutment Volume	=	711.55 ft ³			
Forward Abutment Volume	=	710.01 ft ³			
Total Backfill Volume	=	1421.56 ft ³			
Total Abutment Volume	=	52.65 yd ³			
Total Abutment Volume	=	53.00 yd ³			

Sheet 1 of 1 Subtotal: 53 CY
 Total All Sheets: 53 CY



Project WAY-250-19.26
Description Stage 2/3 Estimated Quantities

Computed By KSC **Date** 8/9/18
Checked By TMR **Date** 8/28/18

ITEM 518E40000 - 6" PERFORATED CORRUGATED PLASTIC PIPE

UNIT: FT

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
122			

Abutment Length = 61 ft 0.0 in = 61.0 ft

Number of Abutments = 2

Pipe Length = 122.00 ft

Pipe Length (rounded) = 122.00 ft

Sheet 1 of 1 Subtotal: 122 FT

Total All Sheets: 122 FT



Project WAY-250-19.26
Description Stage 2/3 Estimated Quantities

Computed By KSC **Date** 8/9/18
Checked By TMR **Date** 8/28/18

ITEM 518E40011 - 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN **UNIT: FT**

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
80			

Assumed Length per Corner	=	20 ft	0.0 in	=	20.0 ft
Number of Corners per Abutment	=	2			
Number of Abutments	=	2			
Pipe Length	=	80.00 ft			
Pipe Length (rounded)	=	80.00 ft			

Sheet 1 of 1 Subtotal: 80 FT
Total All Sheets: 80 FT



Project WAY-250-19.26
Description Stage 2/3 Estimated Quantities

Computed By KSC **Date** 8/9/18
Checked By TMR **Date** 8/28/18

ITEM 523E20000 - DYNAMIC LOAD TESTING

UNIT: EACH

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
1	2		

Abutment Dynamic Load Tests = 1 ea

Pier Dynamic Load Tests = 2 ea

Total = 3 ea

Sheet 1 of 1 Subtotal: 3 EACH

Total All Sheets: 3 EACH



Project WAY-250-19.26
Description Stage 2/3 Estimated Quantities

Computed By KSC **Date** 8/9/18
Checked By TMR **Date** 8/28/18

ITEM 526E15011 - REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=13"), AS **UNIT: SY**

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
			200

Approach Slab Length = 20 ft 0.0 in = 20.0 ft

Approach Slab Width = 45 ft 0.0 in = 45.0 ft

Approach Slab Area = 900.00 ft²

Number of Approach Slabs = 2

Approach Slab Area = 1800.00 ft²

Approach Slab Area = 200.00 yd²

Approach Slab Area (rounded) = **200.00** yd²

Sheet 1 of 1 Subtotal: 200 SY

Total All Sheets: 200 SY



Project WAY-250-19.26
Description Stage 2/3 Estimated Quantities

Computed By KSC **Date** 8/9/18
Checked By TMR **Date** 8/28/18

ITEM 526E90010 - TYPE A INSTALLATION

UNIT: FT

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
			94

Approach Slab Width = 45 ft 0.0 in = 45.0 ft

Skew = 15 °

Number of Approach Slabs = 2

Type A Installation Length = 93.17 ft

Type A Installation Length (rounded) = 94.00 ft

Sheet 1 of 1 Subtotal: 94 FT

Total All Sheets: 94 FT



Project WAY-250-19.26
Description Stage 2/3 Estimated Quantities

Computed By KSC **Date** 8/9/18
Checked By TMR **Date** 8/28/18

ITEM 518E22300 - STEEL DRIP STRIP

UNIT: FT

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
			107

Bridge Limits = 86 ft 6.625 in = 86.552 ft

Number of Sides = 1

Lower Drip Strip Length = 86.55 ft

Upper Drip Strip Length at GR Post = 1 ft 6.0 in = 1.5 ft

Number of Posts = 13

Upper Drip Strip Length = 19.50 ft

Drip Strip Length = 106.05 ft

Drip Strip Length (rounded) = 107.00 ft

Sheet 1 of 1 Subtotal: 107 FT

Total All Sheets: 107 FT



Project WAY-250-19.26
Description Stage 2/3 Estimated Quantities

Computed By KSC **Date** 8/9/18
Checked By TMR **Date** 8/28/18

ITEM 846E00110 - POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM

UNIT: CF

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
			39

Approach Slab Width = 45 ft 0.0 in = 45.0 ft

PMAEJ Thickness = 0 ft 3.0 in = 0.25 ft

PMAEJ Width = 1 ft 8.0 in = 1.667 ft

Number of Approach Slabs = 2

Skew = 15 °

Total PMAEJ Volume = 38.82 cf

Total PMAEJ Volume = 39.00 cf

Sheet 1 of 1 Subtotal: 39 CF

Total All Sheets: 39 CF



Project WAY-250-19.26
Description Stage 2/3 Estimated Quantities

Computed By KSC **Date** 8/9/18
Checked By TMR **Date** 8/28/18

ITEM 601E32104 - ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC **UNIT: CY**

ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL
			400

Rear Abutment RCP Area (From CAD)	=	2,190.00	ft ²
Forward Abutment RCP Area (From CAD)	=	2,125.00	ft ²
RCP Thickness	=	2.50	ft
RCP Volume	=	10,787.50	ft ³
RCP Volume	=	399.54	yd ³
RCP Volume (rounded)	=	400.00	yd ³

Sheet 1 of 1 Subtotal: 400 CY
Total All Sheets: 400 CY