

Base Pay Items

WAR-73-1462 Estimated Quantities

Pay Item Summary

Des: Parsons
 Submittal: Final
 Category:

ITEM	DESCRIPTION	GEN	ABUT	PIERS	SUPER	QUANTITY	UNIT
202E11203	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	1				1	LS
202E22900	APPROACH SLAB REMOVED	97				97	SY
202E23500	WEARING COURSE REMOVED	97				97	SY
203E35110	GRANULAR MATERIAL, TYPE B	723				723	CY
503E11101	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	1				The	LS
505E11100	PILE DRIVING EQUIPMENT MOBILIZATION	1				1	LS
507E00600	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	1190				1190	FT
507E00650	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	1330				1330	FT
509E10000	EPOXY COATED REINFORCING STEEL	38770	6762		45436	90968	LB
511E33500	SEMI-INTEGRAL DIAPHRAGM GUIDE		2			2	EACH
511E53012	CLASS QC2 CONCRETE, MISC.: MOMENT SLAB/PARAPET WITH QC/QA	252				252	CY
511E53014	CLASS QC3 CONCRETE, MISC.: WITH QC/QA, BRIDGE DECK				213	213	CY
511E53014	CLASS QC3 CONCRETE, MISC.: WITH QC/QA, BRIDGE DECK (PARAPET)				29	29	CY
511E43510	CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING ABUTMENT		104			104	CY
512E10050	SEALING OF CONCRETE SURFACES (NON-EPOXY)	1011	141		401	1553	SY
512E33000	TYPE 2 WATERPROOFING	6				6	SY
515E15020	DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE 4 (91'-8")				6	6	EACH
515E20000	INTERMEDIATE DIAPHRAGMS				15	15	EACH
516E10010	ARMORLESS PREFORMED JOINT SEAL	92				92	FT
516E13900	2" PREFORMED EXPANSION JOINT FILLER		16			16	SF
516E14020	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL		96			96	FT
516E44101	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (16" x 16" x 2.30" WITH				12	12	EACH
523E20000	DYNAMIC LOAD TESTING		4			4	EACH
526E30001	REINFORCED CONCRETE APPROACH SLABS (T=17"), AS PER PLAN	316				316	SY
526E90030	TYPE C INSTALLATION	96				96	FT
601E21001	CONCRETE SLOPE PROTECTION, AS PER PLAN	65				65	SY
607E39900	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC	174				174	FT
840E20000	MECHANICALLY STABILIZED EARTH WALL	7547				7547	SF
840E21000	WALL EXCAVATION	1892				1892	CY
840E22000	FOUNDATION PREPARATION	914				914	SY
840E23000	SELECT GRANULAR BACKFILL	3782				3782	CY
840E25010	6" DRAINAGE PIPE, PERFORATED	578				578	FT
840E25020	6" DRAINAGE PIPE, NON-PERFORATED	78				78	FT
840E26000	CONCRETE COPING	555				555	FT
840E27000	ON-SITE ASSISTANCE	5				5	DAY
867E00100	TEMPORARY WIRE FACED MECHANICALLY STABILIZED EARTH WALL	1				1	LS

WAR-73-1462 Estimated Quantities

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Calculated:	JRE 7/29/2020
Checked:	RWB 7/30/2020
Backchecked:	
Corrected:	
Verified:	

202E22900

APPROACH SLAB REMOVED

SY

Supplemental Description:

97

						SY
Refer to 2002 Rehab Plans for dimensions and stations						
Note that this bridge was formerly called WAR-73-1485 over Penna. RR & O'Neall Road						
	Begin Sta.	End Sta.	Length	Width	Area	
Rear	119+54.85	119+69.85	15.00 ft	28.92 ft	433.75 sq ft	
Forward	121+68.89	121+83.89	15.00 ft	28.92 ft	433.75 sq ft	
				Total =	867.50 sq ft	
				=	96.39 sq yd	
					Gen Subtotal	97
					Abut Subtotal	
					Piers Subtotal	
					Super Subtotal	

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505E11100

PILE DRIVING EQUIPMENT MOBILIZATION

LS

Supplemental Description:

1

						LS
For Cost Estimate	\$ 30,000					
					Gen Subtotal	1.0
					Abut Subtotal	
					Piers Subtotal	
					Super Subtotal	

WAR-73-1462 Estimated Quantities

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507E00600

14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN

FT

Supplemental Description:

1,190

					FT
		Rear Abut	Forward Abut		
Bottom of Footing Elev.	738.77	739.81			
Bottom of Pile Elev.	703.00	700.00			
Estimated Length	36.77 ft	40.81 ft	1.00 ft embed		
Driven Length	40 ft	45 ft	= Estimated Length rounded up to nearest 5'		
Number of Piles	14	14			
Total Driven Length	560 ft	630 ft			
Total	1190 ft				
				Gen Subtotal	1,190
				Abut Subtotal	
				Piers Subtotal	
				Super Subtotal	

WAR-73-1462 Estimated Quantities

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Corrected:	
Verified:	

507E00650

14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED

FT

Supplemental Description:

1,330

						<i>FT</i>
		Rear Abut	Forward Abut			
	Driven Length	36.77 ft	40.81 ft			
	Estimated Length	40 ft	45 ft	= Driven Length rounded up to nearest 5'		
	Order Length	45 ft	50 ft	= Estimated Length + 5'		
	Number of Piles	14	14			
	Total Driven Length	630 ft	700 ft			
	Total	1330 ft				
					Gen Subtotal	1,330
					Abut Subtotal	
					Piers Subtotal	
					Super Subtotal	

WAR-73-1462 Estimated Quantities

Des: Parsons
 Submittal: Final

Calculated:	RWB 2/26/2021
Checked:	JRE 2/26/2021
Backchecked:	
Corrected:	
Verified:	

509E10000

EPOXY COATED REINFORCING STEEL

LB

Supplemental Description:

90,968

						LB
General						
	Moment Slab Reinforcing	38770 lb				
Abutments						
	Moment Slab Reinforcing	6762 lb				
Superstructure						
	Parapet Reinforcing	4414 lb				
	Deck Reinforcing	41022 lb				
					Gen Subtotal	38,770.0
					Abut Subtotal	6,762.0
					Piers Subtotal	
					Super Subtotal	45,436.0

WAR-73-1462 Estimated Quantities

Des: Parsons
 Submittal: Final

Calculated:	JRE 2/26/2021
Checked:	RWB 3/1/2021
Backchecked:	
Corrected:	
Verified:	

511E53012

CLASS QC2 CONCRETE, MISC.:

CY

Supplemental Description: MOMENT SLAB/PARAPET WITH QC/QA

252

						CY
Modified Parapet						
Area of Standard Parapet		588 sq in				
Width at C.J.		18.00 in				
Width at T/Slab		21.00 in				
Average Width		1.63 ft				
Height		1.00 ft				
Area		5.71 sq ft				
Total Area		5.71 sq ft				
Moment Slab						
		Left Height	Right Height	Ave. Height		
Sloped Portion		1.25 ft	1.00 ft	1.13 ft		
Portion under Parapet		1.25 ft	1.25 ft	1.25 ft		
		Height	Width	Area		
Sloped Portion		1.13 ft	7.75 ft	8.72 sq ft		
Portion under Parapet		1.25 ft	1.75 ft	2.19 sq ft		
		Total		10.91 sq ft		
Volume						
		Length				
Wall 1, South		55.86 ft				
Wall 2, North		41.25 ft				
Beyond Wall 1		28.00 ft	North Side of SR73			
Wall 1, North		151.42 ft				
Beyond Wall 1		19.00 ft	South Side of SR73			
Wall 2 & Beyond, South		112.48 ft				
Total Length		408.02 ft				
Total Area		16.61 sq ft				
Volume		6779.01 cu ft		251.07 cu yd		
Gen Subtotal						251.1
Abut Subtotal						
Piers Subtotal						
Super Subtotal						

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511E53014

CLASS QC3 CONCRETE, MISC.:

CY

Supplemental Description: WITH QC/QA, BRIDGE DECK

213

					CY
Typical Deck Thickness					Subtotal
End Rear Approach Slab Sta.	783+14.85				115.09 cu yd
Begin Forward Approach Slab	784+07.53				
Deck Length	92.68 ft				
Deck Width	47.33 ft				
Typical Deck Thickness	8.50 in				
Volume	3107.35 cu ft				
Beam Haunches					15.38 cu yd
Min Deck + Haunch	10.63 in				
Max Deck + Haunch	17.25 in				
Ave Deck + Haunch	13.94 in				
Average Deck Height	5.44 in				
Haunch Width	20.00 in				
Beam Length	91.67 ft				
Number of Beams	6				
Volume	415.36 cu ft				
Deck Overhangs					3.00 cu yd
Add'l Overhang Deck Thickness	2.00 in				
Overhang Width	31.50 in				
Deck Length	92.68 ft				
Number of Overhangs	2				
Volume	81.09 cu ft				
Diaphragm					78.90 cu yd
Diaphragm Length	47.69 ft	Beam Area	789 sq in		
Diaphragm Height	6.94 ft	No. Beams	6		
Diaphragm Depth	3.67 ft	Beam Embed Len.	2.67 ft		
Net Volume	1213.05 cu ft	Reduction	87.67 cu ft		
Diaph. Guide Width	3.33 ft	App. Slab Thick	1.42 ft		
Diaph. Guide Height	2.17 ft	App. Slab Seat W	0.50 ft		
Diaph. Guide Length	3.67 ft	Reduction	33.78 cu ft		
Number/Abut	1				
Reduction	26.48 cu ft				
Gen Subtotal					
Abut Subtotal					
Piers Subtotal					
Number of Diaphragms	2				
Volume	2130.25 cu ft				212.4

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511E53014

CLASS QC3 CONCRETE, MISC.:

CY

Supplemental Description: WITH QC/QA, BRIDGE DECK (PARAPET)

29

						CY
The parapet concrete calculation only includes the parapets located on the bridge deck. Parapets located at the approach slabs are included with the approach slab, Item 526.						
	Bridge Length	92.68 ft				
	Number of Barriers	2				
	Wingwalls	Length				
	Wall 1, South	0.00 ft				
	Wall 2, North	0.00 ft				
	Wall 2, South	0.00 ft				
	Wall 1, North	0.00 ft				
	Total Length	185.36 ft				
	SBR-1-13 Area	588 sq in				
	Volume	756.89 cu ft			28.03 cu yd	
					Gen Subtotal	
					Abut Subtotal	
					Piers Subtotal	
					Super Subtotal	28.0

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512E10050

SEALING OF CONCRETE SURFACES (NON-EPOXY)

SY

Supplemental Description:

1,552

						SY
MSE Wall					594.39 sq yd	
MSE Walls are sealed to the top of proposed ground at the front face of the wall.						
		Rear	Forward			
	Exposed Wall Area	3070.00 sq ft	1610.00 sq ft	(Includes Front Face of Coping)		
	Top of Coping Width	0.83 ft				
	Exp. Bot. Coping Width	0.38 ft				
	Back Face Coping Height	0.00 ft				
	Coping Perimeter	1.21 ft	(Front face of coping included in Exposed Wall Area and so is omitted from the Coping Perimeter)			
	Rear Coping Length	326.46 ft				
	Forward Coping Length	227.63 ft				
	Total Length	554.09 ft				
	Area	669.53 ft				
	MSE Subtotal	5349.53 ft				
					Gen Subtotal	1,010.2
					Abut Subtotal	141.0
					Piers Subtotal	
					Super Subtotal	400.2

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512E33000

TYPE 2 WATERPROOFING

SY

Supplemental Description:

6

						SY
		Rear Abut	Forward Abut			
	T/Deck @ Joint	751.39	752.43			
	Approach Slab Thickness	17 in	17 in			
	T/Waterproofing	749.97	751.01			
	T/Footing	741.77	742.81			
	Height of Waterproofing	8.20 ft	8.20 ft			
	Total Length	16.41 ft				
	Waterproofing Width	3.00 ft				
	Area	49.22 sq ft			5.47 sq yd	
					Gen Subtotal	5.5
					Abut Subtotal	
					Piers Subtotal	
					Super Subtotal	

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516E13900

2" PREFORMED EXPANSION JOINT FILLER

SF

Supplemental Description:

16

						SF
	Width	Height	Area			
Abut Interface	3.69 ft	6.21 ft	22.89 sq ft			
MSE Interface	1.50 ft	8.71 ft	13.06 sq ft			
			Sum			
			x 4 =	143.82 sq ft	15.98 sq yd	
					Gen Subtotal	
					Abut Subtotal	16.0
					Piers Subtotal	
					Super Subtotal	

WAR-73-1462 Estimated Quantities

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Corrected:	
Verified:	

840E21000

WALL EXCAVATION

CY

Supplemental Description:

1,892

						CY
Additional Depth below Top of Leveling Pad						
	Pad Thickness	0.50 ft				
	Granular Material Depth	1.00 ft				
	Depth below T/Leveling Pad	1.50 ft				
MSE Wall No. 1						
	Step Length	Area*	Area incl. Pad & Granular Material	Excavation Length	Volume	
Begin Wall	6.25 ft	153 sq ft	162 sq ft	12.25 ft	1989.1 cu ft	
	6.25 ft	54 sq ft	63 sq ft	12.25 ft	776.3 cu ft	
	9.00 ft	65 sq ft	79 sq ft	14.75 ft	1157.9 cu ft	
	5.00 ft	31 sq ft	39 sq ft	18.25 ft	702.6 cu ft	
	5.00 ft	31 sq ft	39 sq ft	18.25 ft	702.6 cu ft	
	27.50 ft	64 sq ft	105 sq ft	20.75 ft	2188.1 cu ft	
Start Front of Wall	22.46 ft	0 sq ft	34 sq ft	23.25 ft	783.2 cu ft	
End Front of Wall	26.49 ft	0 sq ft	40 sq ft	23.25 ft	923.8 cu ft	
	22.00 ft	74 sq ft	107 sq ft	23.50 ft	2514.5 cu ft	
	5.00 ft	35 sq ft	43 sq ft	23.50 ft	998.8 cu ft	
	5.00 ft	35 sq ft	43 sq ft	23.50 ft	998.8 cu ft	
	5.00 ft	35 sq ft	43 sq ft	23.50 ft	998.8 cu ft	
	9.00 ft	71 sq ft	85 sq ft	23.50 ft	1985.8 cu ft	
	9.00 ft	81 sq ft	95 sq ft	23.50 ft	2220.8 cu ft	
	9.00 ft	73 sq ft	87 sq ft	23.50 ft	2032.8 cu ft	
End Wall	90.38 ft	510 sq ft	646 sq ft	12.25 ft	7908.1 cu ft	
				Wall 1 Subtotal	28881.8 cu ft	
					1070 cu yd	
	*Measured in Microstation					
					Gen Subtotal	1,891.4
					Abut Subtotal	
					Piers Subtotal	
					Super Subtotal	

WAR-73-1462 Estimated Quantities

Des: Parsons
Submittal: Final

Calculated:	JRE 7/29/2020
Checked:	
Backchecked:	
Corrected:	
Verified:	

840E21000

WALL EXCAVATION

CY

Supplemental Description:

Subtotal B = 1,891

						CY
MSE Wall No. 2			Area incl. Pad & Granular Material	Excavation Length	Volume	
Begin Wall	Step Length	Area*				
	28.08 ft	148 sq ft	190 sq ft	16.25 ft	3089.5 cu ft	
	9.00 ft	54 sq ft	68 sq ft	23.50 ft	1586.3 cu ft	
	9.00 ft	65 sq ft	79 sq ft	23.50 ft	1844.8 cu ft	
	5.00 ft	31 sq ft	39 sq ft	23.50 ft	904.8 cu ft	
	5.00 ft	31 sq ft	39 sq ft	23.50 ft	904.8 cu ft	
	3.00 ft**	64 sq ft	69 sq ft	23.50 ft	1614.5 cu ft	
Start Front of Wall	26.49 ft	64 sq ft	104 sq ft	23.25 ft	2411.8 cu ft	
End Front of Wall	22.46 ft	80 sq ft	114 sq ft	23.25 ft	2643.2 cu ft	
	1.00 ft**	7 sq ft	9 sq ft	19.75 ft	167.9 cu ft	
	9.00 ft	68 sq ft	82 sq ft	15.25 ft	1242.9 cu ft	
	9.00 ft	87 sq ft	101 sq ft	13.25 ft	1331.6 cu ft	
	9.00 ft	92 sq ft	106 sq ft	12.25 ft	1292.4 cu ft	
	9.00 ft	80 sq ft	94 sq ft	12.25 ft	1145.4 cu ft	
End Wall	19.25 ft	135 sq ft	164 sq ft	12.25 ft	2007.5 cu ft	
				Wall 2 Subtotal	22187.1 cu ft	
					822 cu yd	
	*Measured in Microstation					
	** Partially overlaps excavation from front face of wall					
					Gen Subtotal	1,891.4
					Abut Subtotal	
					Piers Subtotal	
					Super Subtotal	

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840E22000

FOUNDATION PREPARATION

SY

Supplemental Description:

914

					SY
Plan view measured in Microsatation					
	West MSE	5140 sq ft			
	East MSE	3080 sq ft			
	Total	8220 sq ft			
		913 sq yd			
Gen Subtotal					913.3
Abut Subtotal					
Piers Subtotal					
Super Subtotal					

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840E23000

SELECT GRANULAR BACKFILL

CY

Supplemental Description:

3,782

						CY
Limits of SGB						
	2.00 ft	beyond end of soil reinforcement				
	0.50 ft	below top of leveling pad				
	2.00 ft	below top of coping at moment slab locations				
	1.80 ft	above top of coping at abutments				
MSE Wall No. 1						
	Step Length	Area*	Area adjusted for Top of SGB	Select Granular Backfill Length	Volume	
Begin Wall	6.25 ft	66.2 sq ft	57 sq ft	10.50 ft	596.6 cu ft	
	6.25 ft	82.3 sq ft	73 sq ft	10.50 ft	765.6 cu ft	
	9.00 ft	141.9 sq ft	128 sq ft	13.00 ft	1669.5 cu ft	
	5.00 ft	91.8 sq ft	84 sq ft	16.50 ft	1390.7 cu ft	
	5.00 ft	104.2 sq ft	97 sq ft	16.50 ft	1596.0 cu ft	
	27.50 ft	652.5 sq ft	611 sq ft	19.00 ft	11612.9 cu ft	
Start Front of Wall	22.46 ft	408.9 sq ft	461 sq ft	21.50 ft	9901.4 cu ft	
End Front of Wall	26.49 ft	349.6 sq ft	411 sq ft	21.50 ft	8827.0 cu ft	
	22.00 ft	606.6 sq ft	574 sq ft	21.75 ft	12475.0 cu ft	
	5.00 ft	117.4 sq ft	110 sq ft	21.75 ft	2389.7 cu ft	
	5.00 ft	104.5 sq ft	97 sq ft	21.75 ft	2109.0 cu ft	
	5.00 ft	91.6 sq ft	84 sq ft	21.75 ft	1828.3 cu ft	
	9.00 ft	141.3 sq ft	128 sq ft	21.75 ft	2779.4 cu ft	
	9.00 ft	117.5 sq ft	104 sq ft	21.75 ft	2261.5 cu ft	
	9.00 ft	93.7 sq ft	80 sq ft	21.75 ft	1743.5 cu ft	
End Wall	90.38 ft	687.0 sq ft	551 sq ft	10.50 ft	5790.4 cu ft	
				Wall 1 Subtotal	67736.5 cu ft	
					2509 cu yd	
	*Measured in Microstation					
					Gen Subtotal	3,781.8
					Abut Subtotal	
					Piers Subtotal	
					Super Subtotal	

WAR-73-1462 Estimated Quantities

Des: Parsons

Submittal: Final

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Backchecked:	
Corrected:	
Verified:	

840E23000

SELECT GRANULAR BACKFILL

CY

Supplemental Description:

Subtotal B = 3,782

						CY
MSE Wall No. 2			Area adjusted for Top of SGB	Select Granular Backfill Length		
	Step Length	Area*			Volume	
Begin Wall	28.08 ft	222.4 sq ft	180 sq ft	14.50 ft	2614.3 cu ft	
	9.00 ft	93.8 sq ft	80 sq ft	21.75 ft	1746.1 cu ft	
	9.00 ft	116.3 sq ft	103 sq ft	21.75 ft	2235.5 cu ft	
	5.00 ft	77.1 sq ft	70 sq ft	21.75 ft	1513.8 cu ft	
	5.00 ft	89.6 sq ft	82 sq ft	21.75 ft	1785.7 cu ft	
	3.00 ft**	59.1 sq ft	55 sq ft	21.75 ft	1188.5 cu ft	
Start Front of Wall	26.49 ft	296.5 sq ft	357 sq ft	21.50 ft	7684.3 cu ft	
End Front of Wall	22.46 ft	388.8 sq ft	440 sq ft	21.50 ft	9469.7 cu ft	
	1.00 ft**	17.8 sq ft	16 sq ft	18.00 ft	293.0 cu ft	
	9.00 ft	149.4 sq ft	136 sq ft	13.50 ft	1834.7 cu ft	
	9.00 ft	126.9 sq ft	113 sq ft	11.50 ft	1304.1 cu ft	
	9.00 ft	104.4 sq ft	91 sq ft	10.50 ft	954.5 cu ft	
	9.00 ft	81.9 sq ft	68 sq ft	10.50 ft	718.2 cu ft	
End Wall	19.25 ft	127.1 sq ft	98 sq ft	10.50 ft	1030.8 cu ft	
				Wall 2 Subtotal	34373.0 cu ft	
					1273 cu yd	
	*Measured in Microstation					
	** Partially overlaps excavation from front face of wall					
					Gen Subtotal	3,781.8
					Abut Subtotal	
					Piers Subtotal	
					Super Subtotal	

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840E26000

CONCRETE COPING

FT

Supplemental Description:

555

						<i>FT</i>
West MSE Wall						
	Length of Wall	304 ft				
	Step Height	11.10 ft				
	Number of Steps	2				
	Vertical Length	22.20 ft				
	Subtotal	326.5 ft				
East MSE Wall						
	Length of Wall	205 ft				
	Step Height	11.15 ft				
	Number of Steps	2				
	Vertical Length	22.30 ft				
	Subtotal	227.6 ft				
	MSE Wall Total	554.1 ft				
					Gen Subtotal	554.1
					Abut Subtotal	
					Piers Subtotal	
					Super Subtotal	

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840E27000

ON-SITE ASSISTANCE

DAY

Supplemental Description:

5

							DAY
Per page 25 of SS840:							
Item 840 On-Site Assistance is listed as a number of days. For normal projects where there are less than 4 walls then the number of days should be five in the contract. For other projects that have more walls or multiple year contracts then more days should be used. Contact the District Construction Engineers for help.							
						Gen Subtotal	5.0
						Abut Subtotal	
						Piers Subtotal	
						Super Subtotal	

