

SHE-075-0614L ESTIMATED QUANTITIES						MADE BY AMD DATE 08/04/17		CHECKED BY CCJ DATE 08/07/17	
ITEM	ITEM EXT.	TOTAL	UNITS	DESCRIPTION	SHE-075-0614L				
					ABUTS.	PIERS	SUPER.	GENERAL	SHT. REF.
202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP	3
202	22900	133	SQ YD	APPROACH SLAB REMOVED				133	
202	23500	133	SQ YD	WEARING COURSE REMOVED				133	
503	11100	LUMP		COFFERDAMS AND EXCAVATION BRACING				LUMP	
503	21100	166	CU YD	UNCLASSIFIED EXCAVATION	166				
509	10000	38862	LB	EPOXY COATED STEEL REINFORCEMENT	4104	1341		33417	
509	26000	65009	LB	GALVANIZED STEEL REINFORCEMENT			63175	1834	
509	30020	6134	FT	NO. 4 DEFORMED GFRP REINFORCEMENT			4683	1451	
510	10000	158	EACH	DOWEL HOLES WITH NON-SHRINK, NONMETALLIC GROUT	46	112			
511	34446	228	CU YD	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK			228		
511	34450	58	CU YD	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)			58		
511	42512	9	CU YD	CLASS QC1 CONCRETE WITH QC/QA, PIER CAP		9			
511	43512	29	CU YD	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING	29				
512	10100	464	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	65	27	372		
512	33300	20	SQ YD	TYPE A WATERPROOFING	20				
512	74000	10	SQ YD	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES		10			
513	10201	3000	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN			3000		3
513	20000	2394	EACH	WELDED STUD SHEAR CONNECTORS			2394		
513	95030	12	EACH	STRUCTURAL STEEL, MISC.: MOMENT PLATE RETROFIT			12		3
514	00050	6664	SQ FT	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			6664		
514	00056	6664	SQ FT	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT			6664		
514	00060	7100	SQ FT	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			7100		
514	00066	7100	SQ FT	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			7100		
514	00504	16	MNHR	GRINDING FINES, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			16		
514	10000	6	EACH	FINAL INSPECTION REPAIR			6		
514	27700	254	SQ FT	FIELD PAINTING, MISC.: COATING OF BEAM ENDS			254		3
516	10000	100	FT	PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL				100	
516	10010	85	FT	ARMORLESS PREFORMED JOINT SEALER				85	
516	13600	20	SQ FT	1" PREFORMED EXPANSION JOINT FILLER	20				
516	13900	110	SQ FT	2" PREFORMED EXPANSION JOINT FILLER	110				
516	14020	110	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	110				
516	44100	12	EACH	ELASTOMERIC BEARINGS WITH INTERNAL LAMINATES (10"x15.5"x2.87") AND LOAD PLATE (11"x16.5"x1.5") (NEOPRENE)	12				
516	44100	12	EACH	ELASTOMERIC BEARINGS WITH INTERNAL LAMINATES (12"x18"x2.87") AND LOAD PLATE (13"x19"x1.5") (NEOPRENE)		12			
516	47001	LUMP		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN			LUMP		3
518	12200	5	EACH	SCUPPERS, INCLUDING SUPPORTS			5		
518	21200	60	CU YD	POROUS BACKFILL WITH GEOTEXTILE FABRIC	60				
518	40000	109	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	109				
518	40010	39	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	39				
526	25011	252	SQ YD	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN				252	3
526	90031	85	FT	TYPE C INSTALLATION (T=15"), AS PER PLAN				85	3
601	20001	130	SQ YD	CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN				130	3



Project: Project: SHE-075-5.66/6.34/6.25  
 Bridge: SHE-075-0614

**QUANTITY COMPUTATIONS**

Date: 8/4/17  
 By: AMT  
 Checked: CCJ  
 Sheet: 8/7/2017

DESCRIPTION: PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

ITEM NO. 202E11203  
 QUANTITY 1  
 UNIT LUMP

Estimate a volume of concrete to be removed using quantities from original plans, then estimate a cost.

Superstructure:	Use volume per original plans.	=	192 CY
Abutments:	Use volume per original plans.	=	15 CY
Pier cap and stem:	Do not remove.	=	0 CY
Pier footings:	Do not remove.	=	0 CY

Total concrete volume: 207 CY

	Factor		Factor		Volume (cyd)		Cost / cyd			
Estimated removal co:	0.50	x	1.25	x	207	x	\$250.00	=	\$ 32,343.75	LS
Estimated removal co:	0.50	x	1.25	x	207	x	\$250.00	=	\$ 32,343.75	LS

**TOTAL** Say: **\$ 40,000.00** LS



Project: SHE-075-5.66/6.34/6.25  
Bridge: SHE-075-0614  
ODOT

**QUANTITY COMPUTATIONS**

Date: 8/4/17  
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DESCRIPTION: APPROACH SLAB REMOVED

ITEM NO. 202E22900  
QUANTITY 133  
UNIT SY

	Area (ft^2)	#		
APPROACH SLAB REMOVED	600	2	133	SY

**TOTAL= 133 SY**



Project: SHE-075-5.66/6.34/6.25  
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ODOT

**QUANTITY COMPUTATIONS**

Date: 8/4/17  
By: AMT  
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DESCRIPTION: APPROACH SLAB REMOVED

ITEM NO. 202E23500  
QUANTITY 133  
UNIT SY

	Area (ft <sup>2</sup> )	#		
APPROACH SLAB REMOVED	600	2	133	SY

**TOTAL= 133 SY**



Project: SHE-075-5.66/6.34/6.25  
Bridge: SHE-075-0614  
ODOT

Date: 8/4/17  
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**QUANTITY COMPUTATIONS**

DESCRIPTION: COFFERDAMS AND EXCAVATION BRACING

ITEM NO. 503E11100  
QUANTITY 30000  
UNIT LS

TOTAL **Total**  
30000  
**Total=** 30000



Project: SHE-075-5.66/6.34/6.25  
 Bridge: SHE-075-0614  
 ODOT

**QUANTITY COMPUTATIONS**

Date: 8/4/17  
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 Sheet: 8/7/2017

DESCRIPTION: UNCLASSIFIED EXCAVATION

ITEM NO. 503E21100  
 QUANTITY 166  
 UNIT CY

	Slope	Number	Height (FT)	Area (SF)	Vol. (CF)	
ar abutment footing and wingwall	2:1	1	10.85	205.65	2231.27	82.64
d abutment footing and wingwall	2:1	1	10.89	205.65	2239.50	82.94
					Abut Total= 4470.77	165.58

**TOTAL= 166 CY**



Project: SHE-075-5.66/6.34/6.25  
 Bridge: SHE-075-0614  
 ODOT

**QUANTITY COMPUTATIONS**

Date: 5/24/23  
 By: EEB  
 Checked: \_\_\_\_\_  
 Sheet: \_\_\_\_\_

DESCRIPTION: EPOXY COATED STEEL REINFORCEMENT

ITEM NO. 509E10000  
 QUANTITY 38862  
 UNIT LB

DESCRIPTION: GALVANIZED STEEL REINFORCEMENT

ITEM NO. 509E26000  
 QUANTITY 65009  
 UNIT LB

DESCRIPTION: NO. 4 DEFORMED GFRP REINFORCEMENT

ITEM NO. 509E30020  
 QUANTITY 6133  
 UNIT FT

		<b>Total</b>	
Superstructure	GALVANIZED	50445	LB
Parapet (VERTICAL)	GALVANIZED	7049	LB
Parapet (HORIZONTAL)	GFRP	4683	FT
Abutments	EPOXY	4104	LB
Pier	EPOXY	1341	LB
Approach Slab Parapet (VERTICAL)	GALVANIZED	1834	LB
Approach Slab Parapet (HORIZONTAL)	GFRP	1451	FT
APPROACH SLAB	EPOXY	31395	LB
INSTALLATION	EPOXY	2022	LB
DIAPHRAGM	GALVANIZED	5681	LB
	<b>TOTAL (GALVANIZED)=</b>	<b>65009</b>	<b>LB</b>
	<b>TOTAL (GFRP)=</b>	<b>6133</b>	<b>FT</b>
	<b>TOTAL (EPOXY)=</b>	<b>38862</b>	<b>LB</b>



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**QUANTITY COMPUTATIONS**

Date: 8/4/17  
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 Sheet: 8/7/2017

DESCRIPTION: DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT

ITEM NO. 510E10000  
 QUANTITY 158  
 UNIT EACH

	Dowel Holes	#	TOTAL
REAR ABUTMENT (WINGWALLS)	23	1	23
FORWARD ABUBMENT (WINGWALLS)	23	1	23
REAR ABUTMENT (BEAM SEAT)	0	1	0
FORWARD ABUBMENT (BEAM SEAT)	0	1	0
ABUTMENT TOTAL=	46		
PIER 1	56		
PIER 2	56		
PIER TOTAL=	112		

**TOTAL= 158 EACH**





Project: SHE-075-5.66/6.34/6.25  
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Date: 8/4/17  
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**QUANTITY COMPUTATIONS**

DESCRIPTION: CLASS QC2 CONCRETE, WITH QA/QC, BRIDGE DECK

ITEM NO. 511E34446  
 QUANTITY 228  
 UNIT CY

	<i>Slab Length (ft)</i>	<i>Width (ft)</i>	<i>Thickness (ft)</i>	<i>Flange Area (ft^2)</i>	#	Total (CF)	Total (CY)
Deck	146	45.3333	0.7083			4688.2	174
Haunches-Interior	146	1.2500	0.3000	0.0479	10	203.8	8
Haunches-Fascia	146	2.8750	0.3000	0.0479	2	237.9	9

	<i>Length (ft)</i>	<i>Width (ft)</i>	<i>Height (ft)</i>	<i>Approach Seat (ft^2)</i>	#	Total (CF)	Total (CY)
Diaphragm	45.3333	3	4.07	0.9584	2	1020.1	38

**TOTAL = 228 CY**



Project: SHE-075-5.66/6.34/6.25  
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**QUANTITY COMPUTATIONS**

Date: 8/4/17  
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DESCRIPTION: CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)

ITEM NO. 511E34450  
 QUANTITY 58  
 UNIT CY

		<i>Bridge Parapet</i>			
		Area	Length (ft)	#	CF
Bridge		parapet (ft)			
	LEFT	4.09	146	2	1194
		<i>Length along app.</i>			
		Area (ft)	Slab (ft)	#	
Approach Slab	LEFT	4.09	11	2	90
	RIGHT	4.09	11	2	90
Transition 1	LEFT	3.51	14	2	98
	RIGHT	3.51	14	2	98
<i>TOTAL=</i>					58
<b>TOTAL=</b>					<b>58</b> <b>CY</b>



Project: SHE-075-5.66/6.34/6.25  
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Date: 8/4/17  
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**QUANTITY COMPUTATIONS**

DESCRIPTION: CLASS QC1 CONCRETE, PIER CAP

ITEM NO. 511E42510  
QUANTITY 9  
UNIT CY

**Pier Concrete**

	Ht (ft)	Area (ft^2)	#	Total (CF)	TOTAL (CY)
Pier 1 Cap	0.91	126.1311	1	114.78	4.25
Pier 2 Cap	0.83	126.1311	1	104.69	3.88
Total=				219.47	8.13

**TOTAL= 9.00 CY**



Project: SHE-075-5.66/6.34/6.25  
 Bridge: SHE-075-0614  
 ODOT

Date: 8/4/17  
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**QUANTITY COMPUTATIONS**

DESCRIPTION: CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING

ITEM NO. 511E43510  
 QUANTITY 29  
 UNIT CY

**Abutment Concrete**

	Ht. (FT)	Width (ft)	Len (ft)	#	Total (CF)
<b>REAR ABUTMENT</b>					
Abutment footing	2.25	2.25	2.5	1	53.89
Filler	3.93	3.86	1	2	29.29
Wingwall 1 (Tall)	8.73	8.73	1.5	1	99.26
Wingwall 1 (Short)	4.74	4.74	1.5	1	50.36
Wingwall 2 (Tall)	8.62	8.62	1.5	1	98.01
Wingwall 2 (Short)	4.7	4.7	1.5	1	48.86
<b>FORWARD ABUTMENT</b>					
Abutment footing	2.25	2.25	2.5	1	53.89
Filler	3.94	3.82	1	2	29.18
Wingwall 3 (Tall)	8.7	8.7	1.5	1	98.92
Wingwall 3 (Short)	4.75	4.75	1.5	1	49.38
Wingwall 4 (Tall)	8.79	8.79	1.5	1	99.94
Wingwall 4 (Short)	4.75	4.75	1.5	1	50.45
				Abutment Total=	761.41
				<b>TOTAL=</b>	<b>29.0</b> <b>CY</b>



Project: SHE-075-5.66/6.34/6.25  
 Bridge: SHE-075-0614  
 ODOT

Date: 8/4/17  
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**QUANTITY COMPUTATIONS**

DESCRIPTION: SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

ITEM NO. 512E10100  
 QUANTITY 465  
 UNIT SY

Seal Abutments, piers, deck edges, parapets

	Width (ft)	Length (ft)	#	Area (SF)	Area (SY)
<b>Rear Abutment:</b>					
Abutment Seat, front face:	3.45	45.33	1	156.4	17.4
Wingwall 1, front face:	2.94	14.66	1	43.0	4.8
Wingwall 1, top level:	1.50	14.66	1	22.0	0.0
Wingwall 2, front face:	2.88	14.51	1	41.8	4.6
Wingwall 2, top level:	1.50	14.51	1	21.8	2.4
Total for Rear Abutment:					29.2
<b>Forward Abutment:</b>					
Abutment Seat, front face:	4.07	45.33	1	184.5	20.5
Wingwall 3, front face:	3.24	14.51	1	47.0	5.2
Wingwall 3, top level:	1.50	14.51	1	21.8	2.4
Wingwall 4, front face:	3.29	14.66	1	48.2	5.4
Wingwall 4, top level:	1.50	14.66	1	22.0	2.44
Total for Forward Abutment:					35.9
<b>Pier 1:</b>					
Pier Caps, front and back:	1.41	39.69	2	111.9	12.4
Pier Cap, ends:	1.41	4.71	2	13.3	1.5
Total for Pier 1:					13.9
<b>Pier 2:</b>					
Pier Caps, front and back:	1.33	39.69	2	105.6	11.7
Pier Cap, ends:	1.33	4.71	2	12.5	1.4
Total for Pier 2:					13.1
<b>Superstructure:</b>					
Parapets:	146	7.9	2	2306.8	256.3
Fasica & Overhang:	146	3.57	2	1042.4	115.8
Total for Super:					372.1
<b>GRAND TOTAL=</b>					<b>465.0</b>



Project: SHE-075-5.66/6.34/6.25  
Bridge: SHE-075-0614  
ODOT

**QUANTITY COMPUTATIONS**

Date: 8/4/17  
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Sheet: 8/7/2017

DESCRIPTION: TYPE A WATERPROOFING

ITEM NO. 512E33300  
QUANTITY 20  
UNIT SY

Length (ft) Height (ft) #  
45.33 1.92 2.00

Area (SF)  
173.77  
Total= 173.77

**TOTAL = 20 SY**



Project: SHE-075-5.66/6.34/6.25  
 Bridge: SHE-075-0614  
 ODOT

Date: 8/4/17  
 By: AMT  
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 Sheet: 8/7/2017

**QUANTITY COMPUTATIONS**

DESCRIPTION: SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

ITEM NO. 512E10100  
 QUANTITY 10  
 UNIT SY

Seal Abutments, piers, deck edges, parapets

Pier 1:	Width (ft)	Length (ft)	#	Area (SF)	Area (SY)
Pier Caps, front and back:	0.5	39.69	2	39.7	4.4
Pier Cap, ends:	0.5	4.71	2	4.7	0.5
Total for Pier 1:					4.9

Pier 2:	Width (ft)	Length (ft)	#	Area (SF)	Area (SY)
Pier Caps, front and back:	0.5	39.69	2	39.7	4.4
Pier Cap, ends:	0.5	4.71	2	4.7	0.5
Total for Pier 2:					4.9

GRAND TOTAL= 10.0



Project: SHE-075-5.66/6.34/6.25  
Bridge: SHE-075-0614  
ODOT

Date: 8/4/17  
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**QUANTITY COMPUTATIONS**

DESCRIPTION: STRUCTURAL STEEL MEMBERS, LEVEL UF

ITEM NO. 513E10201  
QUANTITY 3000  
UNIT LB

	Length (ft)	Width (ft)	wt (lb)	#	Total (lb)
L3X3X5/16	8.000		6.1	51	2488.80
					Total= 2488.80

Rounded up to account for field splices **TOTAL = 3000 LB**





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Bridge: SHE-075-0614  
ODOT

Date: 8/4/17  
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**QUANTITY COMPUTATIONS**

DESCRIPTION: WELDED STUD SHEAR CONNECTORS

ITEM NO. 513E20000  
QUANTITY 2394  
UNIT EACH

SHEAR STUD # of rows # of beams				Total
BEAM	133	3	6	2394

**TOTAL= 2394 EACH**



Project: SHE-075-5.66/6.34/6.25  
 Bridge: SHE-075-0614  
 ODOT

**QUANTITY COMPUTATIONS**

Date: 8/4/17  
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DESCRIPTION: STRUCTURAL STEEL, MISC.: MOMENT PLATE RETROFIT

ITEM NO. 513E95030  
 QUANTITY 12  
 UNIT EA

	Length (ft)	Width (ft)	wt (lb)		#	Total (lb)
RETROFIT PLATES INSIDE	0.333	1.8333	490	0.0365	96	15664.32
RETROFIT PLATES OUTSIDE	0.833	1.8333	490	0.0365	48	1311.02
RETROFIT PLATES FILLER	0.833	0.9167	490	0.0521	48	935.72
BOLTS			1.62		576	933.12
						Total= 18844.18

Rounded up to account for field splices

**TOTAL = 12 EA**



Project: SHE-075-5.66/6.34/6.25  
 Bridge: SHE-075-0614  
 ODOT

Date: 5/12/23  
 By: EEB  
 Checked:  
 Sheet:

**QUANTITY COMPUTATIONS**

DESCRIPTION: FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT

ITEM NO. 514E00060  
 QUANTITY 7100  
 UNIT SF

DESCRIPTION: FIELD PAINTING STRUCTURAL STEEL, FINISH COAT

ITEM NO. 514E00066  
 QUANTITY 7100  
 UNIT SF

	Length (ft)	bf (in)	d (in)	Perimeter (in)	#
Existing Beams	145	10.5	30.2	91.9	6
x-frames	8			12	51

Area (SF)  
 6663.26  
 408.00

Total= 7071.26

Rounded up to account for field splices

**TOTAL = 7100 SF**

DESCRIPTION: FIELD PAINTING, MISC.: COATING OF BEAM ENDS

ITEM NO. 514E27700  
 QUANTITY 254  
 UNIT SF

	Length (ft)	bf (in)	d (in)	Perimeter (in)	#
Existing Beams	5.5	10.5	30.2	91.9	6

Area (SF)  
 252.73

Add area of beam end

Total= 253.23

**TOTAL = 254 SF**

DESCRIPTION: SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL

ITEM NO. 514E00050  
 QUANTITY 6664  
 UNIT SF

DESCRIPTION: FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT

ITEM NO. 51400056  
 QUANTITY 6664  
 UNIT SF

	Length (ft)	bf (in)	d (in)	Perimeter (in)	#
Existing Beams	145	10.5	30.2	91.9	6

Area (SF)  
 6662.75

Add area of beam end

Total= 6663.26

**TOTAL = 6664 SF**



Project: SHE-075-5.66/6.34/6.25  
 Bridge: SHE-075-0614  
 ODOT

Date: 5/12/23  
 By: EEB  
 Checked: \_\_\_\_\_  
 Date: \_\_\_\_\_

**QUANTITY COMPUTATIONS**

DESCRIPTION: GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL

ITEM NO. 514E00504  
 QUANTITY 16  
 UNIT MNHR

DESCRIPTION: FINAL INSPECTION REPAIR

ITEM NO. 514E10000  
 QUANTITY 6  
 UNIT EACH

	Length (ft)	#	HRS/LEN GTH	MNHR
Existing Beams	146	6	0.016667	14.60

Total= 14.60  
 Say 5% Spot Paint = 0.73

**TOTAL = 16.00 MNHR**



Project: SHE-075-5.66/6.34/6.25  
 Bridge: SHE-075-0614  
 ODOT

**QUANTITY COMPUTATIONS**

Date: 8/4/17  
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DESCRIPTION: PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL

ITEM NO. 516E10000  
 QUANTITY 100  
 UNIT FT

	<i>Length (FT)</i>	<i>#</i>		<i>Length</i>	
<i>REAR APPROACH SLAB</i>	45.45	1.00		45.5	FT
<i>FORWARD APPROACH SLAB</i>	45.45	1.00		45.5	FT

APPROACH SLAB TOTAL= 90.9 FT

**TOTAL = 100.0 FT**



Project: SHE-075-5.66/6.34/6.25  
Bridge: SHE-075-0614  
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**QUANTITY COMPUTATIONS**

Date: 8/4/17  
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DESCRIPTION: ARMORLESS PREFORMED JOINT SEAL

ITEM NO. 516E10010  
QUANTITY 85  
UNIT FT

	LENGTH (FT)	#	Total (FT)
Rear	42.12	1	42.1
Forward	42.12	1	42.1
Total=			<b>84.2</b>

**TOTAL = 85.0 FT**



Project: SHE-075-5.66/6.34/6.25

Bridge: SHE-075-0614

ODOT

**QUANTITY COMPUTATIONS**

Date: 8/4/17  
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DESCRIPTION: 1" PREFORMED EXPANSION JOINT FILLER

ITEM NO. 516E13600  
QUANTITY 20  
UNIT SF

	Area (SF)	#	Area	SF
REAR ABUTMENT	4.08	2.00	8.2	SF
FORWARD ABUTMENT	4.08	2.00	8.2	SF
LEFT ABUTMENT TOTAL=			16.3	SF

**TOTAL = 20.0 SF**



Project: SHE-075-5.66/6.34/6.25  
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**QUANTITY COMPUTATIONS**

DESCRIPTION: 2" PREFORMED EXPANSION JOINT FILLER

ITEM NO. 516E13900  
 QUANTITY 110  
 UNIT SF

	<i>Length</i>	<i>height</i>	<i>#</i>	<i>Area</i>	
<i>WINGWALL 1</i>	14.66	1.25	1	18.3	SF
<i>WINGWALL 2</i>	14.51	1.25	1	18.1	SF
<i>WINGWALL 3</i>	14.51	1.25	1	18.1	SF
<i>WINGWALL 4</i>	14.66	1.25	1	18.3	SF
<i>DIAPHRAGM END(REAR)</i>	3.00	4.78	1	14.3	SF
<i>DIAPHRAGM END(FORWARD)</i>	3.00	4.78	1	14.3	SF
ABUTMENT TOTAL=				101.6	SF
<b>TOTAL =</b>				<b>110.0</b>	<b>SF</b>





Project: SHE-075-5.66/6.34/6.25  
Bridge: SHE-075-0614  
ODOT

Date: 8/4/17  
By: AMT  
Checked: CCJ  
Sheet: 8/7/2017

**QUANTITY COMPUTATIONS**

DESCRIPTION: SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL

ITEM NO. 516E14020  
QUANTITY 110  
UNIT FT

	Length	#	Total (FT)
Rear abutment	53	1	53.00
Forward Abutment	53.25	1	53.25

**TOTAL = 110 FT**



Project: SHE-075-5.66/6.34/6.25  
Bridge: SHE-075-0614  
ODOT

**QUANTITY COMPUTATIONS**

Date: 8/4/17  
By: AMT  
Checked: CCJ  
Sheet: 8/7/2017

DESCRIPTION: ELASTOMERIC BEARINGS WITH INTERNAL LAMINATES  
(10"x15.5"x2.87") AND LOAD PLATE (11"x16.5"x1.5") (NEOPRENE)

ITEM NO. 516E44100  
QUANTITY 12  
UNIT EA

	# BRGS	#	Total
Abutments	6	2	12

**TOTAL = 12 EA**



Project: SHE-075-5.66/6.34/6.25  
Bridge: SHE-075-0614  
ODOT

**QUANTITY COMPUTATIONS**

Date: 8/4/17  
By: AMD  
Checked: CCJ  
Sheet: 8/7/2017

DESCRIPTION: ELASTOMERIC BEARINGS WITH INTERNAL LAMINATES  
(12"x18"x2.87") AND LOAD PLATE (13"x19"x1.5") (NEOPRENE)

ITEM NO. 516E44100  
QUANTITY 12  
UNIT EA

	# BRGS	#	Total
PierS	6	2	12

**TOTAL = 12 EA**



Project: SHE-075-5.66/6.34/6.25  
Bridge: SHE-075-0614  
ODOT

Date: 8/4/17  
By: AMT  
Checked: CCJ  
Sheet: 8/7/2017

**QUANTITY COMPUTATIONS**

DESCRIPTION: JACKING AND TEMPORARY SUPPORT OF STRUCTURE, AS PER PLAN

ITEM NO. 516E47001  
QUANTITY 24000  
UNIT LS

	# Jacking Points	#	Cost/Poi nt	Total
Abutments	6	2	1000	12000
Piers	6	2	1000	12000
			<b>Total=</b>	<b>24000</b>



Project: SHE-075-5.66/6.34/6.25  
Bridge: SHE-075-0614  
ODOT

**QUANTITY COMPUTATIONS**

Date: 8/4/17  
By: AMD  
Checked: CCJ  
Sheet: 8/7/2017

DESCRIPTION: SCUPPERS, INCLUDING SUPPORTS

ITEM NO. 518E12200  
QUANTITY 5  
UNIT EA

	#
scuppers	5

**Total**  
5

**TOTAL = 5 EA**



Project: SHE-075-5.66/6.34/6.25  
 Bridge: SHE-075-0614  
 ODOT

**QUANTITY COMPUTATIONS**

Date: 8/4/17  
 By: AMT  
 Checked: CCJ  
 Sheet: 8/7/2017

DESCRIPTION: POROUS BACKFILL WITH GEOTEXTILE FABRIC

ITEM NO. 518E21200  
 QUANTITY 60  
 UNIT CY

	<i>ground el</i>	<i>top ftg el</i>	<i>Height (ft)</i>	<i>width</i>	<i>length</i>	<i>#</i>			
REAR ABUTMENT	1049.32	1042.51	6.81	2	45.80	1	623.80	23.10	
FORWARD ABUTMENT	1049.90	1043.11	6.79	2	45.80	1	621.96	23.04	
WINGWALLS 1 (SHORT)	1049.93	1046.44	3.49	2	7.08	1	49.42	1.83	
WINGWALLS 1 (TALL)	1049.32	1042.51	6.81	2	1.66	1	22.61	0.84	
WINGWALLS 2 (SHORT)	1049.82	1046.37	3.45	2	6.93	1	47.82	1.77	
WINGWALLS 2 (TALL)	1049.21	1042.51	6.7	2	1.96	1	26.26	0.97	
WINGWALLS 3 (SHORT)	1050.62	1047.05	3.57	2	6.93	1	49.48	1.83	
WINGWALLS 3 (TALL)	1049.89	1043.11	6.78	2	1.96	1	26.58	0.98	
WINGWALLS 4 (SHORT)	1050.51	1046.93	3.58	2	7.08	1	50.69	1.88	
WINGWALLS 4 (TALL)	1049.98	1043.11	6.87	2	1.66	1	22.81	0.84	
ABUTMENTS TOTAL=								56.25	

**TOTAL = 60.0 CY**



Project: SHE-075-5.66/6.34/6.25  
Bridge: SHE-075-0614  
ODOT

**QUANTITY COMPUTATIONS**

Date: 8/4/17  
By: AMT  
Checked: CCJ  
Sheet: 8/7/2017

DESCRIPTION: 6" PERFORATED CORRUGATED PLASTIC PIPE

ITEM NO. 518E40000  
QUANTITY 109  
UNIT FT

	<b>Length</b>	<b>#</b>	<b>Total (FT)</b>
Right wingwall	26.00	2	52
Left wingwall	28.25	2	57

**TOTAL = 109 FT**



Project: SHE-075-5.66/6.34/6.25  
Bridge: SHE-075-0614  
ODOT

**QUANTITY COMPUTATIONS**

Date: 8/4/17  
By: AMT  
Checked: CCJ  
Sheet: 8/7/2017

DESCRIPTION: 6" NON-PERFORATED CORRUGATED PLASTIC PIPE INCLUDING SPECIALS

ITEM NO. 518E40010  
QUANTITY 39  
UNIT FT

	Length	#	Total (FT)
Rear wingwalls	20.25	1	20
Forward wingwalls	18.50	1	19

**TOTAL = 39 FT**





Project: SHE-075-5.66/6.34/6.25  
 Bridge: SHE-075-0614  
 ODOT

**QUANTITY COMPUTATIONS**

Date: 8/4/17  
 By: AMT  
 Checked: CCJ  
 Sheet: 8/7/2017

DESCRIPTION: REINFORCED CONCRETE APPROACH SLAB WITH QC/QA (T=15"), AS

ITEM NO. 526E25011  
 QUANTITY 252  
 UNIT SY

	AREA (SF)	#	Total (SF)	Total (SY)
Rear	1133.34	1	1133.34	125.9
Forward	1133.34	1	1133.34	125.9
Total=			2266.7	<b>251.9</b>

**TOTAL = 252.0 SY**



Project: SHE-075-5.66/6.34/6.25  
Bridge: SHE-075-0614  
ODOT

**QUANTITY COMPUTATIONS**

Date: 8/4/17  
By: AMT  
Checked: CCJ  
Sheet: 8/7/2017

DESCRIPTION: TYPE C INSTALLATION (T=15")

ITEM NO. 526E90030  
QUANTITY 85  
UNIT FT

	Len (ft)	#
Rear Sleeper Slab	42.12	1
Forward Sleeper Slab	42.12	1

**Total  
Length  
(FT)**

42.1  
42.1  
TOTAL **84.2**

**TOTAL = 85.0 FT**



Project: SHE-075-5.66/6.34/6.25  
Bridge: SHE-075-0614  
ODOT

**QUANTITY COMPUTATIONS**

Date: 8/4/17  
By: AMT  
Checked: CCJ  
Sheet: 8/7/2017

DESCRIPTION: CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN

ITEM NO. 601E20001  
QUANTITY 130  
UNIT SY

	<b>Length</b>	<b>Width</b>
Rear Abutment	51.45	11
Forward Abutment	51.45	11

	<b>Total (SF)</b>	<b>Total (SY)</b>
	566	62.9
	566	62.9
TOTAL=	1132	125.8

**TOTAL = 1131.9 130.0 SY**