



OHIO DEPARTMENT OF TRANSPORTATION  
DISTRICT 5 BRIDGE

DATE: 30-Oct-23  
PID: 96323  
CRS:

INITIALS: TDF  
CHECKED BY:

CALCULATION SHEET

DESCRIPTION:

PER-93-5.16  
BRIDGE QUANTITIES

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SUBSTRUCTURE)														
PHASE 1														
DESCRIPTION	#		L			W			T			C.F.		CU YD
REAR ABUT. FOOTING	1	x	25.22	25.69	x	3.0		x	3.0		÷	27	=	8.5
REAR ABUT. BACKWALL	1	x	21.94		x	2.5		x	2.11	3.65	÷	27	=	5.9
REAR ABUT. BACKWALL	-1	x	21.94		x	0.625		x	0.2083		÷	27	=	-0.1
REAR ABUT. WINGWALL	1	x	3.55		x	1.25		x	3.2	3.44	÷	27	=	0.5
REAR ABUT. WINGWALL	1	x	9.42		x	1.25		x	1.33		÷	27	=	0.6
FWD ABUT. FOOTING	1	x	29.41	30.01	x	3.0		x	3.0		÷	27	=	9.9
FWD ABUT. BACKWALL	1	x	22.25		x	2.5		x	2.11	3.65	÷	27	=	5.9
FWD ABUT. BACKWALL	-1	x	22.25		x	0.625		x	0.2083		÷	27	=	-0.1
FWD ABUT. WINGWALL	1	x	3.83		x	1.25		x	3.2	3.44	÷	27	=	0.6
FWD ABUT. WINGWALL	1	x	9.69		x	1.25		x	1.33		÷	27	=	0.6
<b>SUBTOTAL=</b>													32.3	
PHASE 2														
DESCRIPTION	#		L			W			T			C.F.		CU YD
REAR ABUT. FOOTING	1	x	30.28	29.81	x	3.0		x	3.0		÷	27	=	10.0
REAR ABUT. BACKWALL	1	x	14.31		x	2.5		x	3.65	4.66	÷	27	=	5.5
REAR ABUT. BACKWALL	-1	x	14.31		x	0.625		x	0.2083		÷	27	=	-0.1
REAR ABUT. BACKWALL	1	x	7.06		x	2.5		x	4.66	4.37	÷	27	=	3.0
REAR ABUT. BACKWALL	-1	x	7.06		x	0.625		x	0.2083		÷	27	=	0.0
REAR ABUT. WINGWALL	1	x	4.58		x	1.25		x	3.33	5.53	÷	27	=	0.9
REAR ABUT. WINGWALL	1	x	4.05		x	1.25		x	5.53	5.7	÷	27	=	1.1
REAR ABUT. WINGWALL	1	x	9.61		x	1.25		x	1.33		÷	27	=	0.6
FWD ABUT. FOOTING	1	x	26.42	25.83	x	3.0		x	3.0		÷	27	=	8.7
FWD ABUT. BACKWALL	1	x	14.47		x	2.5		x	3.65	4.66	÷	27	=	5.6
FWD ABUT. BACKWALL	-1	x	14.47		x	0.625		x	0.2083		÷	27	=	-0.1
FWD ABUT. BACKWALL	1	x	7.13		x	2.5		x	4.66	4.37	÷	27	=	3.0
FWD ABUT. BACKWALL	-1	x	7.13		x	0.625		x	0.2083		÷	27	=	0.0
FWD ABUT. WINGWALL	1	x	4.58		x	1.25		x	3.33	5.55	÷	27	=	0.9
FWD ABUT. WINGWALL	1	x	3.58		x	1.25		x	5.55	5.68	÷	27	=	0.9
FWD ABUT. WINGWALL	1	x	9.6800		x	1.25		x	1.33		÷	27	=	0.6
<b>SUBTOTAL=</b>													40.6	
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>													73	

**ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SUPERSTRUCTURE)**

**PHASE 1**

DESCRIPTION	#		L		W		T		C.F.		CU YD
DECK	1	x	79.53		x 22.35		x 1.1875		÷ 27	=	78.2
DECK EDGE	1	x	79.53		x 1.625		x 0.14583		÷ 27	=	0.7
DECK AT REAR ABUTMENT	1	x	21.94		x 0.625		x 0.2083		÷ 27	=	0.1
DECK AT FWD ABUTMENT	1	x	22.24		x 0.625		x 0.2083		÷ 27	=	0.1
DECK AT REAR PIER	1	x	22.15		x 2.5		x 0.14583		÷ 27	=	0.3
DECK AT FWD PIER	1	x	22.19		x 2.5		x 0.14583		÷ 27	=	0.3
<b>SUBTOTAL=</b>											79.7

**PHASE 2**

DESCRIPTION	#		L		W		T		C.F.		CU YD
DECK	1	x	79.53		x 21.65		x 1.1875		÷ 27	=	75.7
DECK EDGE	1	x	79.53		x 1.625		x 0.14583		÷ 27	=	0.7
DECK AT REAR ABUTMENT	1	x	21.51		x 0.625		x 0.2083		÷ 27	=	0.1
DECK AT FWD ABUTMENT	1	x	21.59		x 0.625		x 0.2083		÷ 27	=	0.1
DECK AT REAR PIER	1	x	21.41		x 2.5		x 0.14583		÷ 27	=	0.3
DECK AT FWD PIER	1	x	21.5		x 2.5		x 0.14583		÷ 27	=	0.3
<b>SUBTOTAL=</b>											77.2

**TOTAL CARRIED TO GENERAL SUMMARY = 157**

**ITEM 202 - APPROACH SLAB REMOVED**

**PHASE 1**

DESCRIPTION	#		L		W		T		C.F.		SQ YD
REAR	1	x	25		x 12.36		x		÷ 9	=	34.3
FWD	1	x	25		x 12.33		x		÷ 9	=	34.3
<b>SUBTOTAL=</b>											539.4

**PHASE 2**

DESCRIPTION	#		L		W		T		C.F.		SQ YD
REAR	1	x	25		x 11.64		x		÷ 9	=	32.3
FWD	1	x	25		x 11.67		x		÷ 9	=	32.4
<b>SUBTOTAL=</b>											64.7

**TOTAL CARRIED TO GENERAL SUMMARY = 605**

**ITEM 202 - BRIDGE RAILING REMOVED**

**PHASE 1**

DESCRIPTION	#		L		W		T		C.F.		FT
RIGHT RAIL	1	x	79.53		x		x		÷ 1	=	79.5

**PHASE 2**

DESCRIPTION	#		L		W		T		C.F.		FT
LEFT RAIL	1	x	79.53		x		x		÷ 1	=	79.5

**TOTAL CARRIED TO GENERAL SUMMARY = 159**

**ITEM 509 - REINFORCEMENT (SEE SCHEDULE)**

**ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT**

**PHASE 1**

DESCRIPTION	#		L		W		T		C.F.		EACH
REAR PIER	46	x		x		x		÷	1	=	46
FWD PIER	46	x		x		x		÷	1	=	46
<b>SUBTOTAL=</b>											92

**PHASE 2**

DESCRIPTION	#		L		W		T		C.F.		EACH
REAR PIER	44	x		x		x		÷	1	=	44
FWD PIER	44	x		x		x		÷	1	=	44
<b>SUBTOTAL=</b>											88

**TOTAL CARRIED TO GENERAL SUMMARY = 180**

**ITEM 511 - CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE**

**PHASE 1**

DESCRIPTION	#		L		W		T		C.F.		CU YD
BRIDGE DECK	1	x	80.81	x	22.33	x	1.375	÷	27	=	91.9
DECK EDGE	1	x	80.81	x	5.5	x	0.125	÷	27	=	2.1
REAR DIAPHRAGM	1	x	22.66	x	1.75	x	1.625	÷	27	=	2.4
REAR DIAPHRAGM	1	x	22.66	x	0.5	x	1.4583	÷	27	=	0.6
REAR DIAPHRAGM	1	x	1.01	x	2.25	x	2.9167	÷	27	=	0.2
REAR DIAPHRAGM	-1	x	23.66	x	0.5833	x	0.0833	÷	27	=	0.0
REAR DIAPHRAGM	-1	x	23.66	x	0.67	x	0.04167	÷	27	=	0.0
FWD DIAPHRAGM	1	x	22.82	x	1.75	x	1.625	÷	27	=	2.4
FWD DIAPHRAGM	1	x	22.82	x	0.5	x	1.4583	÷	27	=	0.6
FWD DIAPHRAGM	1	x	1.02	x	2.25	x	2.9167	÷	27	=	0.2
FWD DIAPHRAGM	-1	x	23.82	x	0.5833	x	0.0833	÷	27	=	0.0
FWD DIAPHRAGM	-1	x	23.82	x	0.67	x	0.04167	÷	27	=	0.0
<b>SUBTOTAL=</b>											100.4

**PHASE 2**

DESCRIPTION	#		L		W		T		C.F.		CU YD
BRIDGE DECK	1	x	80.81	x	22.33	x	1.375	÷	27	=	91.9
DECK EDGE	1	x	80.81	x	5.5	x	0.125	÷	27	=	2.1
REAR DIAPHRAGM	1	x	22.64	x	1.75	x	1.625	÷	27	=	2.4
REAR DIAPHRAGM	1	x	22.64	x	0.5	x	1.4583	÷	27	=	0.6
REAR DIAPHRAGM	1	x	1.01	x	2.25	x	2.9167	÷	27	=	0.2
REAR DIAPHRAGM	-1	x	23.65	x	0.5833	x	0.0833	÷	27	=	0.0
REAR DIAPHRAGM	-1	x	23.65	x	0.67	x	0.04167	÷	27	=	0.0
FWD DIAPHRAGM	1	x	22.8	x	1.75	x	1.625	÷	27	=	2.4
FWD DIAPHRAGM	1	x	22.8	x	0.5	x	1.4583	÷	27	=	0.6
FWD DIAPHRAGM	1	x	1.02	x	2.25	x	2.9167	÷	27	=	0.2
FWD DIAPHRAGM	-1	x	23.82	x	0.5833	x	0.0833	÷	27	=	0.0
FWD DIAPHRAGM	-1	x	23.82	x	0.67	x	0.04167	÷	27	=	0.0
<b>SUBTOTAL=</b>											100.4

**TOTAL CARRIED TO GENERAL SUMMARY = 200**

**ITEM 511 - CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)**

**PHASE 1**

DESCRIPTION	#		L			C.S. AREA			T			C.F.		CU YD
RIGHT PARAPET	1	x	80.8379		x	3.63		x			÷	27	=	10.9
RIGHT PARAPET	1	x	11.07	11.3	x	4.04		x			÷	27	=	1.7
RIGHT PARAPET	1	x	10.92	10.6	x	4.04		x			÷	27	=	1.6
RIGHT PARAPET	2	x	10		x	4.04	3.67	x			÷	27	=	2.9
RIGHT PARAPET	2	x	2.5		x	3.67		x			÷	27	=	0.7
RIGHT PARAPET	2	x	1.5		x	3.67	2.78	x			÷	27	=	0.4
<b>SUBTOTAL=</b>													18.2	

**PHASE 2**

DESCRIPTION	#		L			W			T			C.F.		CU YD
LEFT PARAPET	1	x	80.781		x	3.63		x			÷	27	=	10.9
LEFT PARAPET	1	x	10.7	10.92	x	4.04		x			÷	27	=	1.6
LEFT PARAPET	1	x	11.22	10.91	x	4.04		x			÷	27	=	1.7
LEFT PARAPET	2	x	10		x	4.04	3.67	x			÷	27	=	2.9
LEFT PARAPET	2	x	2.5		x	3.67		x			÷	27	=	0.7
LEFT PARAPET	2	x	1.5		x	3.67	2.78	x			÷	27	=	0.4
		x			x			x			÷	27	=	
<b>SUBTOTAL=</b>													18.2	
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>													36	

**ITEM 511 - CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING**

**PHASE 1**

DESCRIPTION	#		L			W			T			C.F.		CU YD
REAR ABUT. FOOTING	1	x	26.82	27.33	x	3.25		x	3		÷	27	=	9.8
REAR ABUT.	1	x	3.24	3.59	x	2.25		x	5.77		÷	27	=	1.6
REAR ABUT.	1	x	2.78		x	2.25		x	2.77		÷	27	=	0.6
REAR ABUT.	1	x	20.92		x	2.25		x	2.77	4.24	÷	27	=	6.1
FWD. ABUT. FOOTING	1	x	27.91	27.26	x	3.25		x	3		÷	27	=	10.0
FWD. ABUT.	1	x	3.88	3.43	x	2.25		x	5.73		÷	27	=	1.7
FWD. ABUT.	1	x	2.8		x	2.25		x	2.73		÷	27	=	0.6
FWD. ABUT.	1	x	21.07		x	2.25		x	2.73	4.2	÷	27	=	6.1
<b>SUBTOTAL=</b>													36.5	

**PHASE 2**

DESCRIPTION	#		L		W		T		C.F.		CU YD			
REAR ABUT. FOOTING	1	x	31.93	31.42	x	3.25		x	3	÷	27	=	11.4	
REAR ABUT.	1	x	14.67		x	2.25		x	4.24	5.27	÷	27	=	5.8
REAR ABUT.	1	x	6.24		x	2.25		x	5.27	5.01	÷	27	=	2.7
REAR ABUT.	1	x	2.78		x	2.25		x	5.01		÷	27	=	1.2
REAR ABUT.	1	x	2.11	1.77	x	2.25		x	8.01		÷	27	=	1.3
REAR ABUT.	1	x	6		x	2.25		x	8.01	6.01	÷	27	=	3.5
FWD. ABUT. FOOTING	1	x	31.49	30.84	x	3.25		x	3		÷	27	=	11.3
FWD. ABUT.	1	x	14.78		x	2.25		x	4.2	5.23	÷	27	=	5.8
FWD. ABUT.	1	x	6.28		x	2.25		x	5.23	4.97	÷	27	=	2.7
FWD. ABUT.	1	x	2.8		x	2.25		x	4.97		÷	27	=	1.2
FWD. ABUT.	1	x	1.63	2.07	x	2.25		x	7.97		÷	27	=	1.2
FWD. ABUT.	1	x	5.5		x	2.25		x	7.97	6.14	÷	27	=	3.2
<b>SUBTOTAL=</b>														51.3
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>														88

**ITEM 512 - SEALING OF CONCRETE SURFACES (NON-EPOXY)**

DESCRIPTION	#		L		W		T		C.F.		SQ YD			
REAR ABUTMENT FACE	1	x	6.02		x	0.5		x			÷	9	=	0.3
	1	x	35.59		x	0.5	3	x			÷	9	=	6.9
	1	x	6.24		x	3	2.74	x			÷	9	=	2.0
	1	x	10.89		x	2.74		x			÷	9	=	3.3
REAR ABUT. RIGHT WW FACE	1	x	2.11		x	3		x			÷	9	=	0.7
	1	x	6		x	3	1	x			÷	9	=	1.3
REAR ABUT. LEFT WW FACE	1	x	3.24		x	3		x			÷	9	=	1.1
REAR ABUT. RIGHT WW TOP	1	x	2.11	1.77	x	2.25		x			÷	9	=	0.5
	1	x	6		x	2.25		x			÷	9	=	1.5
REAR ABUT. LEFT WW TOP	1	x	3.24	3.59	x	2.25		x			÷	9	=	0.9
REAR ABUT. RIGHT WW BACK AND SIDE	1	x	1.77		x	0.5		x			÷	9	=	0.1
	1	x	6.32		x	0.5		x			÷	9	=	0.4
	1	x	0.5	3.74	x	2.25		x			÷	9	=	0.5
REAR ABUT. LEFT WW BACK AND SIDE	1	x	3.59		x	0.5		x			÷	9	=	0.2
	1	x	0.5	3.5	x	2.25		x			÷	9	=	0.5
REAR DIAPHRAGM FACE	1	x	47.23		x	2.9167		x			÷	9	=	15.3
FWD ABUTMENT FACE	1	x	6.69		x	0.5		x			÷	9	=	0.4
	1	x	35.85		x	0.5	3	x			÷	9	=	7.0
	1	x	6.28		x	3	2.74	x			÷	9	=	2.0
	1	x	9.93		x	2.74		x			÷	9	=	3.0
FWD ABUT. LEFT WW FACE	1	x	1.63		x	3		x			÷	9	=	0.5
	1	x	5.5		x	3	1	x			÷	9	=	1.2
FWD ABUT. RIGHT WW FACE	1	x	3.88		x	3		x			÷	9	=	1.3
FWD ABUT. LEFT WW TOP	1	x	1.63	2.07	x	2.25		x			÷	9	=	0.5
	1	x	5.5		x	2.25		x			÷	9	=	1.4
FWD ABUT. RIGHT WW TOP	1	x	3.88	3.43	x	2.25		x			÷	9	=	0.9

FWD ABUT. LEFT WW BACK AND SIDE	1	x	2.07		x	0.5		x		÷	9	=	0.1
	1	x	5.8		x	0.5		x		÷	9	=	0.3
	1	x	0.5	3.91	x	2.25		x		÷	9	=	0.6
FWD ABUT. RIGHT WW BACK AND SIDE	1	x	3.43		x	0.5		x		÷	9	=	0.2
	1	x	0.5	3.5	x	2.25		x		÷	9	=	0.5
FWD DIAPHRAGM FACE	1	x	47.57		x	2.9167		x		÷	9	=	15.4
PARAPETS	1	x	80.7798	80.7817	x	8.84		x		÷	9	=	79.3
	1	x	80.8369	80.8389	x	8.84		x		÷	9	=	79.4
	1	x	10.6999	10.9218	x	7.17		x		÷	9	=	8.6
	1	x	11.2184	10.8916	x	7.17		x		÷	9	=	8.8
	1		11.0601	11.297	x	7.17		x		÷	9	=	8.9
	1		10.9156	10.605	x	7.17		x		÷	9	=	8.6
	2	x	10		x	7.17	6.82	x		÷	9	=	15.5
	2	x	10		x	7.17	6.82	x		÷	9	=	15.5
	2	x	2.5		x	6.82		x		÷	9	=	3.8
	2	x	2.5		x	6.82		x		÷	9	=	3.8
	2	x	1.5		x	6.82	6.9	x		÷	9	=	2.3
	2	x	1.5		x	6.82	6.9	x		÷	9	=	2.3
	-4	x	1.78		x	1.94		x		÷	9	=	-1.5
REAR PIER	2	x	43.5625		x	2		x		÷	9	=	19.4
	2	x	2.5		x	2		x		÷	9	=	1.1
	1	x	43.5625		x	2.5		x		÷	9	=	12.1
	-10	x	0.442225		x	3.1415		x		÷	9	=	-1.5
FWD PIER	2	x	43.6875		x	2		x		÷	9	=	19.4
	2	x	2.5		x	2		x		÷	9	=	1.1
	1	x	43.6875		x	2.5		x		÷	9	=	12.1
	-10	x	0.442225		x	3.1415		x		÷	9	=	-1.5
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>													306
<b>ITEM 512 - TYPE 2 WATERPROOFING</b>													
<b>PHASE 1</b>													
<b>DESCRIPTION</b>	<b>#</b>		<b>L</b>			<b>W</b>		<b>T</b>			<b>C.F.</b>		<b>SQ YD</b>
REAR ABUT.	0.5	x	5.66		x	3		x		÷	9	=	0.9
FWD ABUT.	0.5	x	5.865		x	3		x		÷	9	=	1.0
REAR WW	1	x	3.59		x	3		x		÷	9	=	1.2
FWD WW	1	x	3.43		x	3		x		÷	9	=	1.1
<b>SUBTOTAL=</b>													4.2
<b>PHASE 2</b>													
<b>DESCRIPTION</b>	<b>#</b>		<b>L</b>			<b>W</b>		<b>T</b>			<b>C.F.</b>		<b>SQ YD</b>
REAR ABUT.	0.5	x	5.66		x	3		x		÷	9	=	0.9
FWD ABUT.	0.5	x	5.865		x	3		x		÷	9	=	1.0
REAR WW	1	x	7.77		x	3		x		÷	9	=	2.6
FWD WW	1	x	7.57		x	3		x		÷	9	=	2.5
<b>SUBTOTAL=</b>													7.0
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>													11

**ITEM 516 - 1/2" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN**

**PHASE 1**

DESCRIPTION	#		L		W		T		C.F.		SQ FT
REAR ABUTMENT BEARING	1	x	23.7		x 0.67		x		÷ 1	=	15.9
FWD ABUTMENT BEARING	1	x	23.88		x 0.67		x		÷ 1	=	16.0
<b>SUBTOTAL=</b>											31.9

**PHASE 1**

DESCRIPTION	#		L		W		T		C.F.		SQ FT
REAR ABUTMENT BEARING	1	x	23.7		x 0.67		x		÷ 1	=	15.9
FWD ABUTMENT BEARING	1	x	23.87		x 0.67		x		÷ 1	=	16.0
<b>SUBTOTAL=</b>											31.9

**TOTAL CARRIED TO GENERAL SUMMARY = 64**

**ITEM 516 - 1" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN**

**PHASE 1**

DESCRIPTION	#		L		W		T		C.F.		SQ FT
REAR ABUTMENT BEARING	1	x	23.7		x 0.5833		x		÷ 1	=	13.8
FWD ABUTMENT BEARING	1	x	23.88		x 0.5833		x		÷ 1	=	13.9
REAR DIAPHRAGM	1	x	2.9167		x 2.2777		x		÷ 1	=	6.6
FWD DIAPHRAGM	1	x	2.9167		x 2.2951		x		÷ 1	=	6.7
PARAPET	2	x	3		x 1.52 0.94		x		÷ 1	=	7.4
<b>SUBTOTAL=</b>											48.4

**PHASE 2**

DESCRIPTION	#		L		W		T		C.F.		SQ FT
REAR ABUTMENT BEARING	1	x	23.7		x 0.5833		x		÷ 1	=	13.8
FWD ABUTMENT BEARING	1	x	23.87		x 0.5833		x		÷ 1	=	13.9
REAR DIAPHRAGM	1	x	2.9167		x 2.2764		x		÷ 1	=	6.6
FWD DIAPHRAGM	1	x	2.9167		x 2.2951		x		÷ 1	=	6.7
PARAPET	2	x	3		x 1.52 0.94		x		÷ 1	=	7.4
<b>SUBTOTAL=</b>											48.4

**TOTAL CARRIED TO GENERAL SUMMARY = 96**

**ITEM 516 - SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL**

**PHASE 1**

DESCRIPTION	#		L		W		T		C.F.		FT	
REAR ABUT. HORIZONTAL	1	x	23.75		x		x		÷	1	=	23.8
REAR ABUT. VERTICAL	1	x	2.25		x		x		÷	1	=	2.3
FWD ABUT. HORIZONTAL	1	x	23.75		x		x		÷	1	=	23.8
FWD ABUT. VERTICAL	1	x	2.25		x		x		÷	1	=	2.3
<b>SUBTOTAL=</b>											52.2	

**PHASE 2**

DESCRIPTION	#		L		W		T		C.F.		FT	
REAR ABUT. HORIZONTAL	1	x	23.9167		x		x		÷	1	=	23.9
REAR ABUT. VERTICAL	1	x	2.25		x		x		÷	1	=	2.3
FWD ABUT. HORIZONTAL	1	x	23.9167		x		x		÷	1	=	23.9
FWD ABUT. VERTICAL	1	x	2.25		x		x		÷	1	=	2.3
<b>SUBTOTAL=</b>											52.4	

**TOTAL CARRIED TO GENERAL SUMMARY = 104**

**ITEM 516 - 2" DEEP JOINT SEALER, AS PER PLAN**

DESCRIPTION	#		L		W		T		C.F.		FT	
REAR APPROACH	1	x	41.83		x		x		÷	1	=	41.8
FWD APPROACH	1	x	42.14		x		x		÷	1	=	42.1
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>											84	

**ITEM 518 - SCUPPERS, INCLUDING SUPPORTS**

**PHASE 1**

DESCRIPTION	#		L		W		T		C.F.		EACH	
DECK	2	x			x		x		÷	1	=	2.0

**PHASE 2**

DESCRIPTION	#		L		W		T		C.F.		EACH	
DECK	5	x			x		x		÷	1	=	5.0

**TOTAL CARRIED TO GENERAL SUMMARY = 7**



**ITEM 518 - POROUS BACKFILL WITH GEOTEXTILE FABRIC**

**PHASE 1**

DESCRIPTION	#		L		W		T		C.F.		CU YD			
BEHIND REAR ABUT.	1	x	4.69		x	2		x	5.27		÷	27	=	1.8
	1	x	1.69		x	2		x	4.25		÷	27	=	0.5
	1	x	20.92		x	2		x	4.25	5.72	÷	27	=	7.7
BEHIND FWD ABUT.	1	x	3.43		x	2		x	4.23		÷	27	=	1.1
	1	x	1.7		x	2		x	4.1675		÷	27	=	0.5
	1	x	21.08		x	2		x	4.1675	5.64	÷	27	=	7.7
<b>SUBTOTAL=</b>											19.3			

**PHASE 2**

DESCRIPTION	#		L		W		T		C.F.		CU YD			
BEHIND REAR ABUT.	1	x	14.67		x	2		x	5.72	6.75	÷	27	=	6.8
	1	x	6.24		x	2		x	6.75	6.5	÷	27	=	3.1
	1	x	1.69		x	2		x	6.5		÷	27	=	0.8
	1	x	2.86		x	2		x	6.49		÷	27	=	1.4
	1	x	6		x	2		x	6.51	4.51	÷	27	=	2.4
BEHIND FWD ABUT.	1	x	14.78		x	2		x	5.64	6.71	÷	27	=	6.8
	1	x	6.29		x	2		x	6.71	6.5	÷	27	=	3.1
	1	x	1.7		x	2		x	6.5		÷	27	=	0.8
	1	x	3.17		x	2		x	6.47		÷	27	=	1.5
	1	x	5.5		x	2		x	6.47	4.64	÷	27	=	2.3
<b>SUBTOTAL=</b>											29.0			
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>											48			

**ITEM 518 - 6" PERFORATED CORRUGATED PLASTIC PIPE**

**PHASE 1**

DESCRIPTION	#		L		W		T		C.F.		FT			
REAR ABUT. BACKFILL	1	x	27.48		x			x			÷	1	=	27.5
FWD ABUT. BACKFILL	1	x	27.16		x			x			÷	1	=	27.2
<b>SUBTOTAL=</b>											54.7			

**PHASE 2**

DESCRIPTION	#		L		W		T		C.F.		FT			
REAR ABUT. BACKFILL	1	x	31.27		x			x			÷	1	=	31.3
FWD ABUT. BACKFILL	1	x	31.69		x			x			÷	1	=	31.7
<b>SUBTOTAL=</b>											63.0			
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>											118			

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

**PHASE 1**

DESCRIPTION	#		L		W		T		C.F.		FT		
REAR ABUT. BACKFILL	1	x	20		x			x		÷	1	=	20.0
FWD ABUT. BACKFILL	1	x	20		x			x		÷	1	=	20.0
<b>SUBTOTAL=</b>												40.0	

**PHASE 2**

DESCRIPTION	#		L		W		T		C.F.		FT		
REAR ABUT. BACKFILL	1	x	25		x			x		÷	1	=	25.0
FWD ABUT. BACKFILL	1	x	25		x			x		÷	1	=	25.0
<b>SUBTOTAL=</b>												50.0	

**TOTAL CARRIED TO GENERAL SUMMARY = 90**

**ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN**

**PHASE 1**

DESCRIPTION	#		L		W		T		C.F.		SQ YD		
REAR A.S.	1	x	25		x	22.33		x		÷	9	=	62.0
FWD A.S.	1	x	25		x	22.33		x		÷	9	=	62.0
<b>SUBTOTAL=</b>												124.0	

**PHASE 2**

DESCRIPTION	#		L		W		T		C.F.		SQ YD		
REAR A.S.	1	x	25		x	22.33		x		÷	9	=	62.0
FWD A.S.	1	x	25		x	22.33		x		÷	9	=	62.0
<b>SUBTOTAL=</b>												124.0	

**TOTAL CARRIED TO GENERAL SUMMARY = 248**