



OHIO DEPARTMENT OF TRANSPORTATION  
DISTRICT 5 BRIDGE

DATE: 3-Nov-23

INITIALS: TDF

PID: 104637

CHECKED BY: \_\_\_\_\_

CRS: \_\_\_\_\_

LIC-70-10.77

CALCULATION SHEET

DESCRIPTION: \_\_\_\_\_

ROADWAY QUANTITIES

ITEM 202 - PAVEMENT REMOVED															
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.				SQ YD	
1-FD	STA. 13+40.75 TO 13+65.75	1	x	25		x	16.11	15.89	x			÷	9	=	44.4
2-FD	STA. 16+34.25 TO 16+59.25	1	x	25		x	16.76	17.31	x			÷	9	=	47.3
2-P	STA. 16+29.25 TO 18+21.28	1	x	163.83		x	2		x			÷	9	=	36.4
		1	x	100	62	x	7.75		x			÷	9	=	69.8
		0.5	x	19.6		x	6		x			÷	9	=	6.5
		1	x	160		x	3.27	2	x			÷	9	=	46.8
		0.5	x	17.33		x	5.5		x			÷	9	=	5.3
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>														257	
ITEM 202 - GUARDRAIL REMOVED															
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.				FT	
1-GR	STA. 11+55.84 TO 14+14.72	1	x	260		x			x			÷	1	=	260.0
2-GR	STA. 11+50.46 TO 14+14.86	1	x	265		x			x			÷	1	=	265.0
3-GR	STA. 16+31.75 TO 16+50.40	1	x	251		x			x			÷	1	=	251.0
4-GR	STA. 16+31.75 TO 17+49.25	1	x	165		x			x			÷	1	=	165.0
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>														941	
ITEM 202 - FENCE REMOVED															
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.				FT	
1-F	STA. 13+83.67 TO 13+92.50	1	x	29.5		x			x			÷	1	=	29.5
2-F	STA. 13+85.55 TO 13+92.50	1	x	30.5		x			x			÷	1	=	30.5
3-F	STA. 16+02.89 TO 16+07.50	1	x	29.5		x			x			÷	1	=	29.5
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>														90	
ITEM 203 - ROADWAY, MISC.: MEDIAN BARRIER PATCHING															
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.				EACH	
	I.R. 70 SLM 20.12	LS	x			x			x			÷	1	=	LS
<b>LUMP SUM TOTAL CARRIED TO GENERAL SUMMARY =</b>														LS	
ITEM 204 - SUBGRADE COMPACTION															
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.				SQ YD	
1-FD	STA. 13+40.75 TO 13+47.60	1	x	6.85		x	29.17		x			÷	9	=	22.2
	STA. 13+47.60 TO 13+65.75	1	x	18.15		x	28.5		x			÷	9	=	57.5
2-FD	STA. 16+52.40 TO 16+59.25	1	x	6.85		x	29.17		x			÷	9	=	22.2
	STA. 16+34.25 TO 16+52.40	1	x	18.15		x	28.5		x			÷	9	=	57.5
1-AS	STA. 13+65.75 TO 13+90.75	1	x	25		x	33.83		x			÷	9	=	94.0
2-AS	STA. 16+09.25 TO 16+34.25	1	x	25		x	33.83		x			÷	9	=	94.0

2-P	STA. 16+29.25 TO 18+21.28	1	x	164.94		x	8.5833		x		÷	9	=	157.3
		1	x	159.38		x	8.5833		x		÷	9	=	152.0
		-1	x	61.99		x	0.8333		x		÷	9	=	-5.7
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>													651	
<b>ITEM 209 - RESHAPING UNDER GUARDRAIL</b>														
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		FT		
1-G	STA. 11+52.44 TO 13+68.25	1	x	213		x		x		÷	100	=	2.13	
2-G	STA. 11+52.44 TO 13+68.25	1	x	213		x		x		÷	100	=	2.13	
3-G	STA. 16+31.75 TO 16+50.40	1	x	202		x		x		÷	100	=	2.02	
4-G	STA. 16+31.75 TO 17+49.25	1	x	116		x		x		÷	100	=	1.16	
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>													7	
<b>ITEM 606 - GUARDRAIL, TYPE MGS</b>														
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		FT		
1-G	STA. 11+52.44 TO 13+68.25	1	x	162.5		x		x		÷	1	=	162.5	
2-G	STA. 11+52.44 TO 13+68.25	1	x	162.5		x		x		÷	1	=	162.5	
3-G	STA. 16+31.75 TO 16+50.40	1	x	150		x		x		÷	1	=	150.0	
4-G	STA. 16+31.75 TO 17+49.25	1	x	87.5		x		x		÷	1	=	87.5	
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>													563	
<b>ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE A</b>														
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		EACH		
1-G	STA. 11+52.44 TO 13+68.25	1	x			x		x		÷	1	=	1	
2-G	STA. 11+52.44 TO 13+68.25	1	x			x		x		÷	1	=	1	
3-G	STA. 16+31.75 TO 16+50.40	1	x			x		x		÷	1	=	1	
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>													3	
<b>ITEM 606 - MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1</b>														
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		EACH		
1-G	STA. 11+52.44 TO 13+68.25	1	x			x		x		÷	1	=	1	
2-G	STA. 11+52.44 TO 13+68.25	1	x			x		x		÷	1	=	1	
3-G	STA. 16+31.75 TO 16+50.40	1	x			x		x		÷	1	=	1	
4-G	STA. 16+31.75 TO 17+49.25	1	x			x		x		÷	1	=	1	
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>													4	
<b>ITEM 607 - FENCE, TYPE 47</b>														
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		FT		
1-F	STA. 13+83.67 TO 13+92.50	1	x	30		x		x		÷	1	=	30	
2-F	STA. 13+85.55 TO 13+92.50	1	x	30		x		x		÷	1	=	30	
3-F	STA. 16+02.89 TO 16+07.50	1	x	30		x		x		÷	1	=	30	
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>													90	

**ITEM 609 - CURB, TYPE 1**

REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		FT	
1-C	STA. 13+47.60 TO 13+65.75	1	x	18		x		x		÷	1	=	18
2-C	STA. 13+47.60 TO 13+65.75	1	x	18		x		x		÷	1	=	18
3-C	STA. 16+34.25 TO 16+52.40	1	x	18		x		x		÷	1	=	18
4-C	STA. 16+34.25 TO 16+52.40	1	x	18		x		x		÷	1	=	18
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>												<b>72</b>	



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CALCULATION SHEET

DESCRIPTION: EROSION CONTROL QUANTITIES

ITEM 601 - CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN														
REF #	STATION / DESCRIPTION	#		PI		R^2					C.F.			SQ YD
	REAR ABUT BACKFILL OUTLET	2	x	3.14		4		x			9	=		2.8
	FWD ABUT BACKFILL OUTLET	2	x	3.14		4		x			9	=		2.8
REF #	STATION / DESCRIPTION	#		L		W					C.F.			SQ YD
	REAR ABUT SLOPE BENCH	1	x	4		36.8333		x			9	=		16.4
	REAR ABUT SLOPE (2:1 MAX)	1.12	x	29		36.8333		x			9	=		132.9
	REAR ABUT EXTRA	2	x	2		2.9167		x			9	=		1.3
	FWD ABUT SLOPE BENCH	1	x	4		36.8333		x			9	=		16.4
	FWD ABUT SLOPE (2:1 MAX)	1.12	x	29		36.8333		x			9	=		132.9
	FWD ABUT EXTRA	2	x	2		2.9167		x			9	=		1.3
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>														<b>307</b>
ITEM 601 - TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT														
REF #	STATION / DESCRIPTION	#		L		W					C.F.			SQ YD
1-E	STA. 13+50.00, LT.	1	x	6		5.5		x			9	=		3.7
2-E	STA. 13+50.00, RT.	1	x	6		5.5		x			9	=		3.7
3-E	STA. 16+50.00, LT.	1	x	6		5.5		x			9	=		3.7
4-E	STA. 16+50.00, RT.	1	x	6		5.5		x			9	=		3.7
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>														<b>15</b>
ITEM 659 - SEEDING AND MULCHING, CLASS 2														
REF #	STATION / DESCRIPTION	#		AREA (SF)		W		T			C.F.			SQ YD
	LIC-70-1077 LOCATION	1	x	19764				x			9	=		2196.0
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>														<b>2196</b>
ITEM 659 - COMMERCIAL FERTILIZER														
REF #	STATION / DESCRIPTION	RATE		AREA (SF)		W		T			C.F.			TON
	10-20-10 @ 20 LBS/1000 SF	20	x	19764				x			2E+06	=		0.20
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>														<b>0.20</b>
ITEM 659 - LIME														
REF #	STATION / DESCRIPTION	#		AREA (SF)		W		T			C.F.			ACRE
	SEEDING & MULCHING	1	x	19764				x			43560	=		0.45
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>														<b>0.45</b>
ITEM 659 - WATER														
REF #	STATION / DESCRIPTION	#		AREA (SF)		W		T			C.F.			MGAL
	SEEDING & MULCHING	300	x	19764				x			1E+06	=		5.9
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>														<b>5.90</b>



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LIC-70-10.77

CALCULATION SHEET

DESCRIPTION: \_\_\_\_\_

PAVEMENT QUANTITIES

ITEM 254 - PAVEMENT PLANNING, ASPHALT CONCRETE, VARIABLE DEPTH														
REF #	STATION / DESCRIPTION	#		L		W			T		C.F.			SQ YD
1-P	STA. 12+25.00 TO 13+40.75	1	x	115.75		x	16.69	16.11	x		÷	9	=	210.9
2-P	STA. 16+29.25 TO 18+21.28	1	x	162.03		x	12		x		÷	9	=	216.0
3-P	STA. 0+15.88 TO 1+00.00	1	x	84.12		x	VARIES		x		÷	9	=	214.3
TOTAL CARRIED TO GENERAL SUMMARY =														641
ITEM 255 - FULL DEPTH PAVEMENT SAWING														
REF #	STATION / DESCRIPTION	#		L		W			T		C.F.			FT
1-FD	STA. 13+40.75	1	x	16.12		x			x		÷	1	=	16.1
2-FD	STA. 16+59.25	1	x	17.32		x			x		÷	1	=	17.3
2-P	STA. 16+29.25 TO 18+21.28	1	x	163.63		x			x		÷	1	=	163.6
2-P	STA. 16+29.25 TO 18+21.28	1	x	160.42		x			x		÷	1	=	160.4
TOTAL CARRIED TO GENERAL SUMMARY =														357
ITEM 301 - ASPHALT CONCRETE BASE, PG64-22, (449)														
REF #	STATION / DESCRIPTION	#		L		W			T		C.F.			CU YD
1-FD	STA. 13+40.75 TO 13+47.60	1	x	6.85		x	28.17		x	0.5	÷	27	=	3.6
	STA. 13+47.60 TO 13+65.75	1	x	18.15		x	27.5		x	0.5	÷	27	=	9.2
2-FD	STA. 16+52.40 TO 16+59.25	1	x	6.85		x	28.17		x	0.5	÷	27	=	3.6
	STA. 16+34.25 TO 16+52.40	1	x	18.15		x	27.5		x	0.5	÷	27	=	9.2
2-P	STA. 16+29.25 TO 18+21.28	1	x	164.94		x	8.0833		x	0.5	÷	27	=	24.7
		1	x	159.38		x	8.0833		x	0.5	÷	27	=	23.9
TOTAL CARRIED TO GENERAL SUMMARY =														74
ITEM 304 - AGGREGATE BASE														
REF #	STATION / DESCRIPTION	#		L		W			T		C.F.			CU YD
1-FD	STA. 13+40.75 TO 13+47.60	1	x	6.85		x	29.17		x	0.5	÷	27	=	3.7
	STA. 13+47.60 TO 13+65.75	1	x	18.15		x	28.5		x	0.5	÷	27	=	9.6
2-FD	STA. 16+52.40 TO 16+59.25	1	x	6.85		x	29.17		x	0.5	÷	27	=	3.7
	STA. 16+34.25 TO 16+52.40	1	x	18.15		x	28.5		x	0.5	÷	27	=	9.6
1-AS	STA. 13+65.75 TO 13+90.75	1	x	25		x	33.83		x	0.5	÷	27	=	15.7
2-AS	STA. 16+09.25 TO 16+34.25	1	x	25		x	33.83		x	0.5	÷	27	=	15.7
2-P		1	x	164.94		x	8.5833		x	0.5	÷	27	=	26.2
	STA. 16+29.25 TO 18+21.28	1	x	159.38		x	8.5833		x	0.5	÷	27	=	25.3
		-1	x	61.99		x	0.5		x	0.5	÷	27	=	-0.6
TOTAL CARRIED TO GENERAL SUMMARY =														109

**ITEM 407 - NON-TRACKING TACK COAT**

REF #	STATION / DESCRIPTION	RATE		L		W		T		C.F.		GAL.	
1-P	STA. 12+25.00 TO 13+40.75	0.09	x	115.75	x	16.69	16.11	x		÷	9	=	19.0
		0.06	x	115.75	x	16.69	16.11	x		÷	9	=	12.7
1-FD	STA. 13+40.75 TO 13+65.75	0.09	x	25	x	27.5		x		÷	9	=	6.9
		0.06	x	25	x	27.5		x		÷	9	=	4.6
2-FD	STA. 16+34.25 TO 16+59.25	0.09	x	25	x	27.5		x		÷	9	=	6.9
		0.06	x	25	x	27.5		x		÷	9	=	4.6
2-P	STA. 16+29.25 TO 18+21.28	0.09	x	162.03	x	27.5		x		÷	9	=	44.6
		0.06	x	162.03	x	27.5		x		÷	9	=	29.7
3-P	STA. 0+15.88 TO 1+00.00	0.09	x	84.12	x	VARIES		x		÷	9	=	17.2
		0.06	x	84.12	x	VARIES		x		÷	9	=	12.9
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>												159	

**ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG70-22M**

REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		CU YD	
1-P	STA. 12+25.00 TO 13+40.75	1	x	115.75	x	16.69	16.11	x	0.125	÷	27	=	8.8
1-FD	STA. 13+40.75 TO 13+65.75	1	x	25	x	27.5		x	0.125	÷	27	=	3.2
2-FD	STA. 16+34.25 TO 16+59.25	1	x	25	x	27.5		x	0.125	÷	27	=	3.2
2-P	STA. 16+29.25 TO 18+21.28	1	x	162.03	x	27.5		x	0.125	÷	27	=	20.6
3-P	STA. 0+15.88 TO 1+00.00	1	x	84.12	x	VARIES		x	0.125	÷	27	=	8.9
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>												45	

**ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)**

REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		CU YD	
1-P	STA. 12+25.00 TO 13+40.75	1	x	115.75	x	16.69	16.11	x	0.145833	÷	27	=	10.3
1-FD	STA. 13+40.75 TO 13+65.75	1	x	25	x	27.5		x	0.145833	÷	27	=	3.7
2-FD	STA. 16+34.25 TO 16+59.25	1	x	25	x	27.5		x	0.145833	÷	27	=	3.7
2-P	STA. 16+29.25 TO 18+21.28	1	x	162.03	x	27.5		x	0.145833	÷	27	=	24.1
3-P	STA. 0+15.88 TO 1+00.00	1	x	84.12	x	VARIES			0.145833	÷	27	=	10.4
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>												52	

**ITEM 617 - COMPACTED AGGREGATE, AS PER PLAN**

REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		CU YD	
1-SH	STA. 12+25 TO 13+40.75, LT.	1	x	75	x	2		x	0.25	÷	27	=	1.4
1-SH		1	x	40.75	x	2	5.75	x	0.25	÷	27	=	1.5
2-SH	STA. 12+25 TO 13+40.75, RT.	1	x	75	x	2		x	0.25	÷	27	=	1.4
2-SH		1	x	40.75	x	2	5.75	x	0.25	÷	27	=	1.5
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>												6	



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CALCULATION SHEET

DESCRIPTION: TRAFFIC CONTROL QUANTITIES

ITEM 626 - BARRIER REFLECTOR, TYPE 2 (BIDIRECTIONAL)															
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		EACH			
1-G	STA.11+52.44 TO 13+68.25	3	x			x			x			÷	1	=	3
2-G	STA. 11+52.44 TO 13+68.25	3	x			x			x			÷	1	=	3
3-G	STA. 16+31.75 TO 16+50.40	4	x			x			x			÷	1	=	4
4-G	STA. 16+31.75 TO 16+50.40	1	x			x			x			÷	1	=	1
1-B	STA. 13+65.75 TO 16+34.25	3	x			x			x			÷	1	=	3
2-B	STA. 13+65.75 TO 16+34.25	3	x			x			x			÷	1	=	3
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>															17



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DESCRIPTION: \_\_\_\_\_

BRIDGE QUANTITIES

<b>ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SUPERSTRUCTURE) (FOR REFERENCE ONLY)</b>													
DESCRIPTION	#		L		W / AREA		T			C.F.			CU YD
BRIDGE DECK	1	x	214.5		x 18.12		x			÷ 27	=		144.0
PARAPETS	2	x	214.5		x 4.23		x			÷ 27	=		67.2
DESCRIPTION	#		L		W / AREA		T			C.F.			FEET
TUBE RAILING	2	x	214.5		x		x			÷ 1	=		429.0
DESCRIPTION	#		L		W / AREA		T			C.F.			LBS
STRUCTURAL STEEL ORIGINAL PLAN	1	x			x		x			÷ 1	=		135000.0
<b>LUMP SUM CARRIED TO GENERAL SUMMARY</b>													LS
<b>ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SUBSTRUCTURE)</b>													
DESCRIPTION	#		L		W		T			C.F.			CU YD
ABUT. BEAM SEATS	4	x	9.6667		x 2		x 5.91			÷ 27	=		16.9
	4	x	9.6667		x 1.75		x 6.16			÷ 27	=		15.4
	2	x	11.6667		x 2		x 6.05			÷ 27	=		10.5
	2	x	11.6667		x 1.75		x 6.3			÷ 27	=		9.5
REAR ABUT. WINGWALLS	1	x	6.25		x 1.75		x 7.81	10.83		÷ 27	=		3.8
	1	x	0.75		x 1.75		x 10.83			÷ 27	=		0.5
	1	x	6.25		x 1.75		x 7.87	10.79		÷ 27	=		3.8
	1	x	0.75		x 1.75		x 10.79			÷ 27	=		0.5
FWD ABUT. WINGWALLS	1	x	6.25		x 1.75		x 7.8	10.85		÷ 27	=		3.8
	1	x	0.75		x 1.75		x 10.85			÷ 27	=		0.5
	1	x	6.25		x 1.75		x 7.77	10.75		÷ 27	=		3.8
	1	x	0.75		x 1.75		x 10.75			÷ 27	=		0.5
REAR ABUT. BACKWALL	2	x	15.5		x 1.75		x 4	3.89		÷ 27	=		7.9
FWD ABUT. BACKWALL	2	x	15.5		x 1.75		x 4	3.89		÷ 27	=		7.9
REAR ABUT. RAIL END SECTIONS	2	x	1		x 3.36		x 4			÷ 27	=		1.0
	2	x	1.125		x 2.25		x 4			÷ 27	=		0.8
	2	x	4.625		x 1		x 1.5			÷ 27	=		0.5
	2	x	4.5		x 0.75		x 1.5			÷ 27	=		0.4
RADIAL SECTIONS	0.5	x	3.1415		x 5.0625		x 4			÷ 27	=		1.2
FWD ABUT. RAIL END SECTIONS	2	x	1		x 3.36		x 4			÷ 27	=		1.0
	2	x	1.125		x 2.25		x 4			÷ 27	=		0.8
	2	x	4.625		x 1		x 1.5			÷ 27	=		0.5
	2	x	4.5		x 0.75		x 1.5			÷ 27	=		0.4
RADIAL SECTIONS	0.5	x	3.1415		x 5.0625		x 4			÷ 27	=		1.2
SUBTRACT APPROACH SLAB SEAT	-4	x	8		x 0.5		x 1.25	1.37667		÷ 27	=		-0.8
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>													92



ITEM 202 - APPROACH SLAB REMOVED														
DESCRIPTION	#		L		W		T		C.F.				SQ YD	
REAR APPROACH SLAB	1	x	25		x	16		x			÷	9	=	44.4
FORWARD APPROACH SLAB	1	x	25		x	16		x			÷	9	=	44.4
TOTAL CARRIED TO GENERAL SUMMARY =													89	
ITEM 503 - COFFERDAMS AND EXCAVATION BRACING														
DESCRIPTION	#		L		W		T		C.F.				EACH	
		x			x			x			÷		=	
LUMP SUM CARRIED TO GENERAL SUMMARY													LS	
ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN (FOR REFERENCE ONLY)														
DESCRIPTION	#		L		W		T		C.F.				CU YD	
BEHIND REAR ABUTMENT	1	x	45		x	2		x	8.9167		÷	27	=	29.7
	0.5	x	45		x	17.8333		x	8.9167		÷	27	=	132.5
BEHIND FWD ABUTMENT	1	x	45		x	2		x	8.9167		÷	27	=	29.7
	0.5	x	45		x	17.8333		x	8.9167		÷	27	=	132.5
TOTAL CARRIED TO GENERAL SUMMARY =													324	
ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT														
DESCRIPTION	#		L		W		T		C.F.				EACH	
REAR ABUTMENT FOOTING	62	x			x			x			÷	27	=	62.0
FORWARD ABUTMENT FOOTING	62	x			x			x			÷	27	=	62.0
TOTAL CARRIED TO GENERAL SUMMARY =													124	
ITEM 511 - CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK														
DESCRIPTION	#		L		W		T		C.F.				CU YD	
DECK SLAB	1	x	214.625		x	30.83		x	0.7083		÷	27	=	173.6
HAUNCHES	2	x	214.625		x	1.1667		x	0.1667		÷	27	=	3.1
EDGE BEAMS	2	x	214.625		x	3		x	0.21	0.25	÷	27	=	11.0
END HAUNCH, BETWEEN BEAMS	2	x	7.5		x	0.29167		x	0.29167		÷	27	=	0.0
	4	x	7.5		x	0.29167		x	0.27592		÷	27	=	0.1
TOTAL CARRIED TO GENERAL SUMMARY =													188	
ITEM 511 - CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN														
DESCRIPTION	#		L		AREA				C.F.				CU YD	
SECTION P-5	2	x	214.75		x	3.713		x			÷	27	=	59.1
SECTION P-4	4	x	12.75		x	3.713		x			÷	27	=	7.0
SECTION P-4 TO P-3	4	x	10		x	3.713	3.7080	x			÷	27	=	5.5
SECTION P-3 TO P-2	4	x	2.5		x	3.7080		x			÷	27	=	1.4
SECTION P-2 TO P-1	4	x	1.5		x	3.7080	2.868	x			÷	27	=	0.7
TOTAL CARRIED TO GENERAL SUMMARY =													74	

**ITEM 511 - CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING**

DESCRIPTION	#		L		W		T		C.F.		CU YD
REAR BEAM SEAT	2	x	9.6667	x	1.75	x	7.02	÷	27	=	8.8
	2	x	9.6667	x	2	x	6.77	÷	27	=	9.7
	1	x	11.6667	x	1.75	x	7.16	÷	27	=	5.4
	1	x	11.6667	x	2	x	6.91	÷	27	=	6.0
REAR BEAM SEAT SLOPES	-1.5	x	5.6667	x	3.75	x	0.0625	÷	27	=	-0.1
REAR BACKWALL	2	x	15.5	x	1.75	x	3.62	3.72 ÷	27	=	7.4
REAR BACKWALL APPROACH SLAB SEAT	2	x	15.5	x	0.5	x	2.37	1.68 ÷	27	=	1.2
	-0.5	x	31	x	0.5	x	0.5	÷	27	=	-0.1
REAR WINGWALLS	2	x	5.5	x	1.75	x	7.89	10.64 ÷	27	=	6.6
	2	x	1.5	x	1.75	x	10.64	÷	27	=	2.1
FWD BEAM SEAT	2	x	9.6667	x	1.75	x	7.01	÷	27	=	8.8
	2	x	9.6667	x	2	x	6.76	÷	27	=	9.7
	1	x	11.6667	x	1.75	x	7.14	÷	27	=	5.4
	1	x	11.6667	x	2	x	6.89	÷	27	=	6.0
FWD BEAM SEAT SLOPES	-1.5	x	5.6667	x	3.75	x	0.0625	÷	27	=	-0.1
FWD BACKWALL	2	x	15.5	x	1.75	x	3.62	3.73 ÷	27	=	7.4
FWD BACKWALL APPROACH SLAB SEAT	2	x	15.5	x	0.5	x	2.37	1.68 ÷	27	=	1.2
	-0.5	x	31	x	0.5	x	0.5	÷	27	=	-0.1
FWD WINGWALLS	2	x	5.5	x	1.75	x	7.87	10.63 ÷	27	=	6.6
	2	x	1.5	x	1.75	x	10.63	÷	27	=	2.1
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>											94

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

DESCRIPTION	#		L		W		T		C.F.		SQ YD
REAR ABUTMENT BEAM SEAT FRONT FACE	1	x	31	x	3.4229	x		÷	9	=	11.8
	1	x	11.6667	x	0.14	x		÷	9	=	0.2
REAR ABUT. BEAM SEAT SIDE FACES	2	x	2	x	3.4229	x		÷	9	=	1.5
REAR ABUT. BEAM SEAT TOP	1	x	31	x	2	x		÷	9	=	6.9
	-4	x	1.8333	x	1.6667	x		÷	9	=	-1.4
REAR ABUT. BACKWALL FACE	1	x	31	x	3.0833	x		÷	9	=	10.6
REAR ABUT. WINGWALL FRONT FACES	2	x	1.5	x	7.0429	x		÷	9	=	2.3
	2	x	5.5	x	7.0429	4.2929	x	÷	9	=	6.9
REAR ABUT. WINGWALL SIDE FACES	2	x	1.75	x	4.2929	x		÷	9	=	1.7
REAR ABUT. WINGWALL TOPS	2	x	1.75	x	7.6492	x		÷	9	=	3.0
REAR ABUT. WINGWALL BACKS	2	x	0.5	x	7.6492	x		÷	9	=	0.8
FWD ABUTMENT BEAM SEAT FRONT FACE	1	x	31	x	3.4129	x		÷	9	=	11.8
	1	x	11.6667	x	0.13	x		÷	9	=	0.2
FWD ABUT. BEAM SEAT SIDE FACES	2	x	2	x	3.4129	x		÷	9	=	1.5
FWD ABUT. BEAM SEAT TOP	1	x	31	x	2	x		÷	9	=	6.9
	-4	x	1.8333	x	1.6667	x		÷	9	=	-1.4
FWD ABUT. BACKWALL FACE	1	x	31	x	3.0833	x		÷	9	=	10.6
FWD ABUT. WINGWALL FRONT FACES	2	x	1.5	x	7.0329	x		÷	9	=	2.3
	2	x	5.5	x	7.0329	4.2829	x	÷	9	=	6.9

FWD ABUT. WINGWALL SIDE FACES	2	x	1.75		x	4.2829		x		÷	9	=	1.7
FWD ABUT. WINGWALL TOPS	2	x	1.75		x	7.6492		x		÷	9	=	3.0
FWD ABUT. WINGWALL BACKS	2	x	0.5		x	7.6492		x		÷	9	=	0.8
RAILING SECTION P-1	4	x	1.5		x	6.7957		x		÷	9	=	4.5
RAILING SECTION P-2	4	x	2.5		x	6.7209		x		÷	9	=	7.5
RAILING SECTION P-3	4	x	10		x	6.7209	7.1788	x		÷	9	=	30.9
RAILING SECTION P-4	4	x	11		x	7.1788		x		÷	9	=	35.1
RAILING SECTION P-5	2	x	214.75		x	8.7757		x		÷	9	=	418.8
PIER 1 COLUMNS	3	x	8.25		x	9.4248		x		÷	9	=	25.9
PIER 1 COLUMNS	-3	x	2		x	3		x		÷	9	=	-2.0
PIER 2 COLUMNS	3	x	10.75		x	9.4248		x		÷	9	=	33.8
PIER 3 COLUMNS	3	x	7.75		x	9.4248		x		÷	9	=	24.3
PIER 3 COLUMNS	-3	x	2		x	3		x		÷	9	=	-2.0
PIER 1 CAP FACES	2	x	29		x	4.75		x		÷	9	=	30.6
PIER 1 CAP FACES	1	x	4.75		x	9.4248		x		÷	9	=	5.0
PIER 1 CAP FACES	2	x	17.33		x	0.23		x		÷	9	=	0.9
PIER 2 CAP FACES	2	x	29		x	4.84		x		÷	9	=	31.2
PIER 2 CAP FACES	1	x	4.84		x	9.4248		x		÷	9	=	5.1
PIER 2 CAP FACES	2	x	17.33		x	0.13		x		÷	9	=	0.5
PIER 3 CAP FACES	2	x	29		x	4.75		x		÷	9	=	30.6
PIER 3 CAP FACES	1	x	4.75		x	9.4248		x		÷	9	=	5.0
PIER 3 CAP FACES	2	x	17.33		x	0.12		x		÷	9	=	0.5
PIER CAP TOPS	3	x	26		x	3		x		÷	9	=	26.0
PIER CAP TOPS	3	x	2.25		x	3.1416		x		÷	9	=	2.4
PIER CAP BOTTOMS	3	x	26		x	3		x		÷	9	=	26.0
PIER CAP BOTTOMS	-6	x	2.25		x	3.1416		x		÷	9	=	-4.7
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>													825
<b>ITEM 512 - TYPE 2 WATERPROOFING</b>													
<b>DESCRIPTION</b>	<b>#</b>		<b>L</b>			<b>W</b>		<b>T</b>			<b>C.F.</b>		<b>SQ YD</b>
REAR ABUTMENT	1	x	45		x	3		x		÷	9	=	15.0
FWD ABUTMENT	1	x	45		x	3		x		÷	9	=	15.0
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>													30

**ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL 2 (FOR REFERENCE ONLY)**

DESCRIPTION	#		L		W		T		C.F.		FT
W27x146	4	x	214.5	x		x		x	146	=	125,268.0
WEB SPLICE PLATES	16	x	1.6875	x	1.7917	x	0.0625	x	0.284	=	1,483.8
FLANGE SPL. PLATES (INSIDE)	32	x	2.9375	x	0.4792	x	0.0625	x	0.284	=	1,381.6
FLANGE SPL. PLATES (OUTSIDE)	16	x	2.9375	x	1.1667	x	0.0521	x	0.284	=	1,402.0
INT. DIAPHRAGMS (C15x33.9)	45	x	8.4167	x		x		x	33.9	=	12,839.7
INT. CONNECTION PLATE	90	x	2.1208	x	0.9583	x	0.0417	x	0.284	=	3,743.2
CONNECTION PLATE CORNERS	-90	x	0.4002	x	0.4002	x	0.0417	x	0.284	=	-295.0
CONNECTION PLATE CORNERS	-90	x	0.2083	x	0.0833	x	0.0417	x	0.284	=	-32.0
ABUT. BEARING STIFFENERS	16	x	2.1198	x	0.5417	x	0.0573	x	0.284	=	516.5
PIERS 1/3 BRG STIFFENERS	16	x	2.1198	x	0.5417	x	0.0625	x	0.284	=	563.5
PIER 2 BEARING STIFFENERS	8	x	2.1198	x	0.5417	x	0.0677	x	0.284	=	305.2
END CROSSFRAMES	6	x	8.6667	x		x		x	9.808	=	510.0
END CROSSFRAMES	12	x	2.9167	x		x		x	9.808	=	343.3
END CROSSFRAMES	12	x	1.6667	x		x		x	9.808	=	196.2
END CROSSFRAME PLATES	6	x	1.3333	x	1.0833	x	0.0416	x	0.284	=	176.9
<b>LUMP SUM CARRIED TO GENERAL SUMMARY</b>											148403

**ITEM 513 - WELDED SHEAR STUD CONNECTORS**

DESCRIPTION	#		L		W		T		C.F.		EACH
BEAMS	4	x	933	x		x		÷	1	=	3732.0
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>											3732

**ITEM 514 - FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT**

DESCRIPTION	#		L		W		T		C.F.		EACH
SEE PAINTING CALCS		x		x		x		÷	1	=	
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>											8654

**ITEM 514 - FIELD PAINTING STRUCTURAL STEEL, FINISH COAT**

DESCRIPTION	#		L		W		T		C.F.		EACH
SEE PAINTING CALCS		x		x		x		÷	1	=	
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>											8654

**ITEM 514 - FINAL INSPECTION REPAIR**

DESCRIPTION	#		L		W		T		C.F.		EACH
SEE PAINTING CALCS		x		x		x		÷	1	=	
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>											4

**ITEM 516 - STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC COMPRESSION SEAL**

DESCRIPTION	#		L		W		T		C.F.		FT
REAR APPROACH	1	x	30	x		x		÷	1	=	30.0
FWD APPROACH	1	x	30	x		x		÷	1	=	30.0
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>											60

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

DESCRIPTION	#		L		W		T		C.F.		FT	
REAR APPROACH	1	x	27.5		x		x		÷	1	=	27.5
FWD APPROACH	1	x	27.5		x		x		÷	1	=	27.5
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>											55	

**ITEM 516 - ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (1'-2" x 1'-0" x 3.1480") (ANCHORED)**

DESCRIPTION	#		L		W		T		C.F.		EACH	
ABUTMENT BEARINGS	8	x			x		x		÷	1	=	8.0
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>											8	

**ITEM 516 - ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (1'-5" x 1'-3" x 4.9618")**

DESCRIPTION	#		L		W		T		C.F.		EACH	
PIERS 1 & 3 (EXPANSION)	8	x			x		x		÷	1	=	8.0
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>											8	

**ITEM 516 - ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (1'-5" x 1'-3" x 4.9618") (ANCHORED)**

DESCRIPTION	#		L		W		T		C.F.		EACH	
PIER 2 (FIXED)	4	x			x		x		÷	1	=	4.0
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>											4	

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

DESCRIPTION	#		L		W		T		C.F.		CU YD	
REAR ABUTMENT	2	x	17		x	2	x	9.05	÷	27	=	22.8
	2	x	5.5		x	2	x	9.05	6.34	÷	27	=
REAR APPR. SLAB WEDGE	2	x	15.4167		x	0.5	x	0.25	÷	27	=	0.1
	2	x	15.4167		x	0.5	x	0.5	÷	27	=	0.3
REAR ABUT. APPR. SLAB SEAT	-2	x	15.4167		x	0.5	x	1.58	÷	27	=	-0.9
	-1	x	15.4167		x	0.5	x	0.5	÷	27	=	-0.1
FWD ABUTMENT	2	x	17		x	2	x	9.05	÷	27	=	22.8
	2	x	5.5		x	2	x	9.05	6.34	÷	27	=
FWD APPR. SLAB WEDGE	2	x	15.4167		x	0.5	x	0.25	÷	27	=	0.1
	2	x	15.4167		x	0.5	x	0.5	÷	27	=	0.3
FWD ABUT. APPR. SLAB SEAT	-2	x	15.4167		x	0.5	x	1.58	÷	27	=	-0.9
	-1	x	15.4167		x	0.5	x	0.5	÷	27	=	-0.1
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>											57	

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

DESCRIPTION	#		L		W		T		C.F.		FT	
REAR ABUTMENT BACKFILL	1	x	45		x		x		÷	1	=	45.0
FWD ABUTMENT BACKFILL	1	x	45		x		x		÷	1	=	45.0
<b>TOTAL CARRIED TO GENERAL SUMMARY =</b>											90	

ITEM 518 - 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS														
DESCRIPTION	#		L		W		T		C.F.				FT	
REAR ABUTMENT BACKFILL	2	x	10		x			x			÷	1	=	20.0
FWD ABUTMENT BACKFILL	2	x	10		x			x			÷	1	=	20.0
TOTAL CARRIED TO GENERAL SUMMARY =													40	
ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN														
DESCRIPTION	#		L		W		T		C.F.				SQ YD	
REAR APPROACH SLAB	1	x	25		x	30.8333		x			÷	9	=	85.6
FWD APPROACH SLAB	1	x	25		x	30.8333		x			÷	9	=	85.6
TOTAL CARRIED TO GENERAL SUMMARY =													171	
ITEM SPECIAL - 530 - STRUCTURES: AESTHETIC TREATMENT (CONCRETE FORMLINER/STAIN)														
DESCRIPTION	#		L		W		T		C.F.				SQ YD	
SECTION P-5	2	x	214.625		x	2.5		x			÷	1	=	1073.1
SECTION P-4	4	x	12.75		x	2.5		x			÷	1	=	127.5
SECTION P-4 TO P-3	4	x	10		x	2.5	2.1667	x			÷	1	=	93.3
TOTAL CARRIED TO GENERAL SUMMARY =													1294	
ITEM 607 - VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN														
DESCRIPTION	#		L		W		T		C.F.				FT	
RIGHT	1	x	200		x			x			÷	1	=	200.0
LEFT	1	x	200		x			x			÷	1	=	200.0
TOTAL CARRIED TO GENERAL SUMMARY =													400	
ITEM 625 - STRUCTURE GROUNDING SYSTEM														
DESCRIPTION	#		L		W		T		C.F.				EACH	
BRIDGE NO. LIC-70-1077	4	x			x			x			÷	1	=	4
TOTAL CARRIED TO GENERAL SUMMARY =													4	
ITEM 844 - CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION														
DESCRIPTION	#		L		W		T		C.F.				SQ YD	
PIER 3	1.25	x	2		x	2		x			÷	1	=	5.0
TOTAL CARRIED TO GENERAL SUMMARY =													5	