



OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 5 BRIDGE

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

INITIALS: TDF
CHECKED BY:

CALCULATION SHEET

DESCRIPTION:

PER-93-5.00
ROADWAY QUANTITIES

ITEM 202 - WEARING COURSE REMOVED															
PHASE 1															
REF #	STATION / DESCRIPTION	#		L			W			T		C.F.		SQ YD	
1-AS	263+48.86 TO 263+73.86	1	x	25		x	12.4		x			÷	9	=	34.4
2-AS	263+97.11 TO 264+22.11	1	x	25		x	12.7		x			÷	9	=	35.3
SUBTOTAL =														69.7	
PHASE 2															
REF #	STATION / DESCRIPTION	#		L			W			T		C.F.		SQ YD	
1-AS	263+49.04 TO 263+74.13	1	x	25		x	11.6		x			÷	9	=	32.2
2-AS	263+96.84 TO 264+21.87	1	x	25		x	11.3		x			÷	9	=	31.4
SUBTOTAL =														63.6	
TOTAL CARRIED TO GENERAL SUMMARY =														133	
ITEM 204 - SUBGRADE COMPACTION															
PHASE 1A															
REF #	STATION / DESCRIPTION	#		L			W			T		C.F.		SQ YD	
1-PS	262+00.00 TO 263+81.72	1	x	138.5		x	2.8	6.83	x			÷	9	=	74.1
		1	x	43.4	41.0	x	6.83		x			÷	9	=	32.0
2-PS	264+04.22 TO 265+75.00	1	x	46.1	43.4	x	8.33		x			÷	9	=	41.4
		1	x	128.4		x	8.33	2.9	x			÷	9	=	80.1
SUBTOTAL =														227.6	
PHASE 1B															
REF #	STATION / DESCRIPTION	#		L			W			T		C.F.		SQ YD	
3-PS	262+00.00 TO 263+42.00	1	x	123		x	2.85	7.33	x			÷	9	=	69.6
		1	x	19.04		x	7.33		x			÷	9	=	15.5
4-PS	264+30.00 TO 264+68.59	1	x	38.3		x	5.83		x			÷	9	=	24.8
SUBTOTAL =														109.9	
PHASE 1															
REF #	STATION / DESCRIPTION	#		L			W			T		C.F.		SQ YD	
1-AS	263+48.86 TO 263+73.86	1	x	22.6		x	23.5		x			÷	9	=	59.0
1-AS	SQUARED CORNER	-0.5	x	3.17		x	1.21		x			÷	9	=	-0.2
2-AS	263+97.11 TO 264+22.11	1	x	22.6		x	23.5		x			÷	9	=	59.0
2-AS	SQUARED CORNER	0.5	x	3.36		x	1.13		x			÷	9	=	0.2
1-FD	263+38.86 TO 263+48.86	1	x	2.25	10	x	20.33		x			÷	9	=	13.8
2-FD	264+22.11 TO 264+32.11	1	x	17.12	10	x	20.33		x			÷	9	=	30.6
1-C	263+22.96 TO 263+41.10	1	x	18.2		x	0.5		x			÷	9	=	1.0
2-C	264+14.85 TO 264+33.15	1	x	18.2		x	0.5		x			÷	9	=	1.0
SUBTOTAL =														164.4	

PHASE 2

REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		SQ YD		
1-AS	263+48.86 TO 263+73.86	1	x	22.6		x	23.5		x		÷	9	=	59.0
1-AS	SQUARED CORNER	0.5	x	3.39		x	1.21		x		÷	9	=	0.2
2-AS	263+97.11 TO 264+22.11	1	x	22.6		x	23.5		x		÷	9	=	59.0
2-AS	SQUARED CORNER	-0.5	x	3.36		x	1.11		x		÷	9	=	-0.2
1-FD	263+38.86 TO 263+48.86	1	x	17.76	10	x	20.33		x		÷	9	=	31.4
2-FD	264+22.11 TO 264+32.11	1	x	2.89	10	x	20.33		x		÷	9	=	14.6
3-C	263+38.47 TO 263+56.62	1	x	18.2		x	0.5		x		÷	9	=	1.0
4-C	264+29.24 TO 264+47.23	1	x	18.2		x	0.5		x		÷	9	=	1.0

SUBTOTAL = 166.0

TOTAL CARRIED TO GENERAL SUMMARY = 668

ITEM 209 - RESHAPING UNDER GUARDRAIL

REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		STA.		
1-G	262+34.83 TO 263+43.60	1	x	130		x			x		÷	100	=	1.3
2-G	264+12.32 TO 264+83.19	1	x	155		x			x		÷	100	=	1.6
3-G	262+37.84 TO 263+59.12	1	x	143		x			x		÷	100	=	1.4
4-G	264+26.77 TO 265+59.38	1	x	155		x			x		÷	100	=	1.6

TOTAL CARRIED TO GENERAL SUMMARY = 6



OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 5 BRIDGE

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

INITIALS: TDF
CHECKED BY:

CALCULATION SHEET

DESCRIPTION:

PER-93-5.00
PAVEMENT QUANTITIES

ITEM 254 - PAVEMENT PLANNING, ASPHALT CONCRETE, VARIABLE DEPTH														
PHASE 1														
REF #	STATION / DESCRIPTION	#		L		W / AVG			T		C.F.		SQ YD	
1-P	262+00.00 TO 263+48.86	1	x	122.96		x	15.85	20.33	x		÷	9	=	247.1
		1	x	15.9		x	20.33		x		÷	9	=	35.9
2-P	264+32.11 TO 265+75.00	1	x	117.17		x	20.33		x		÷	9	=	264.7
		1	x	9.46		x	20.33	16.81	x		÷	9	=	19.5
		1	x	16.26		x	16.81	17.01	x		÷	9	=	30.6
3-P	0+20.76 TO 0+75.00	1	x	54.23		x	36.9		x		÷	9	=	222.3
SUBTOTAL =													820	
PHASE 2														
REF #	STATION / DESCRIPTION	#		L		W / AVG			T		C.F.		SQ YD	
1-P	262+00.00 TO 263+38.86	1	x	138.47		x	16.3	20.33	x		÷	9	=	281.8
		1	x	0.39		x	20.33		x		÷	9	=	0.9
2-P	264+32.11 TO 265+75.00	1	x	15.26		x	20.33		x		÷	9	=	34.5
		1	x	127.76		x	20.33	14.87	x		÷	9	=	249.8
SUBTOTAL =													567	
TOTAL CARRIED TO GENERAL SUMMARY =													1387	
ITEM 255 - FULL DEPTH PAVEMENT SAWING														
PHASE 1A														
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		FT		
1-PS	262+00	1	x	4.30		x			x		÷	1	=	4.3
	262+00.00 TO 263+79.37	1	x	178.70		x			x		÷	1	=	178.7
2-PS	264+01.39 TO 265+75.00	1	x	174.69		x			x		÷	1	=	174.7
	265+75	1	x	2.87		x			x		÷	1	=	2.9
SUBTOTAL =													361	
PHASE 1B														
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		FT		
3-PS	262+00	1	x	2.35		x			x		÷	1	=	3.85
	262+00.00 TO 263+42.00	1	x	142.00		x			x		÷	1	=	142.00
	263+42.00	1	x	4.52		x			x		÷	1	=	4.52
4-PS	264+30.00	1	x	4.94		x			x		÷	1	=	4.94
	264+30.00 TO 264+68.59	1	x	38.39		x			x		÷	1	=	38.39
	264+68.59	1	x	8.33		x			x		÷	1	=	8.33
SUBTOTAL =													202.03	

PHASE 1															
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		FT			
1-FD	263+38.86	1	x	20.33		x		x		÷	1	=	20.33		
2-FD	264+32.11	1	x	20.33		x		x		÷	1	=	20.33		
SUBTOTAL =													40.66		
PHASE 2															
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		FT			
1-FD	263+38.86	1	x	20.33		x		x		÷	1	=	20.33		
2-FD	264+32.11	1	x	20.33		x		x		÷	1	=	20.33		
SUBTOTAL =													40.66		
TOTAL CARRIED TO GENERAL SUMMARY =													644		
ITEM 301 - ASPHALT CONCRETE BASE, PG64-22, (449) (9")															
PHASE 1A															
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		CU YD			
1-PS	262+00.00 TO 263+81.72	1	x	138.5		x	4.3	8.33	x	0.75		÷	27	=	24.3
		1	x	43.4	40.3	x	8.33		x	0.75		÷	27	=	9.7
2-PS	264+04.22 TO 265+75.00	1	x	46.3	43.4	x	8.33		x	0.75		÷	27	=	10.4
		1	x	128.4		x	8.33	2.9	x	0.75		÷	27	=	20.0
SUBTOTAL =													64		
PHASE 1B															
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		CU YD			
3-PS	262+00.00 TO 263+42.00	1	x	123		x	3.85	8.33	x	0.75		÷	27	=	20.8
		1	x	19.04		x	8.33		x	0.75		÷	27	=	4.4
4-PS	264+30.00 TO 264+68.59	1	x	38.3		x	8.33		x	0.75		÷	27	=	8.9
SUBTOTAL =													34		
PHASE 1															
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		CU YD			
1-FD	263+38.86 TO 263+48.86	1	x	2.25	10.0	x	20.33		x	0.75		÷	27	=	3.5
2-FD	264+22.11 TO 264+32.11	1	x	17.12	10.0	x	20.33		x	0.75		÷	27	=	7.7
SUBTOTAL =													11.2		
PHASE 2															
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		CU YD			
1-FD	263+38.86 TO 263+48.86	1	x	17.76	10.0	x	20.33		x	0.75		÷	27	=	7.8
2-FD	264+22.11 TO 264+32.11	1	x	2.89	10.0	x	20.33		x	0.75		÷	27	=	3.6
SUBTOTAL =													11.4		
TOTAL CARRIED TO GENERAL SUMMARY =													121		

ITEM 304 - AGGREGATE BASE

PHASE 1A

REF #	STATION / DESCRIPTION	#		L			W			T			C.F.		CU YD
1-PS	262+00.00 TO 263+81.72	1	x	138.5		x	4.8	8.83	x	0.5		÷	27	=	17.5
		1	x	43.4	40.3	x	8.83		x	0.5		÷	27	=	6.8
2-PS	264+04.22 TO 265+75.00	1	x	46.3	43.4	x	8.83		x	0.5		÷	27	=	7.3
		1	x	128.4		x	8.83	3.4	x	0.5		÷	27	=	14.5
SUBTOTAL =															46

PHASE 1B

REF #	STATION / DESCRIPTION	#		L			W			T			C.F.		CU YD
3-PS	262+00.00 TO 263+42.00	1	x	123		x	4.35	8.83	x	0.5		÷	27	=	15.0
		1	x	19.04		x	8.83		x	0.5		÷	27	=	3.1
4-PS	264+30.00 TO 264+68.59	1	x	38.3		x	8.83		x	0.5		÷	27	=	6.3
SUBTOTAL =															24.4

PHASE 1

REF #	STATION / DESCRIPTION	#		L			W			T			C.F.		CU YD
1-AS	263+48.86 TO 263+73.86	1	x	22.6		x	23.5		x	0.5		÷	27	=	9.8
1-AS	SQUARED CORNER	-0.5	x	3.17		x	1.21		x	0.5		÷	27	=	0.0
2-AS	263+97.11 TO 264+22.11	1	x	22.6		x	23.5		x	0.5		÷	27	=	9.8
2-AS	SQUARED CORNER	0.5	x	3.36		x	1.13		x	0.5		÷	27	=	0.0
1-FD	263+38.86 TO 263+48.86	1	x	2.25	10.0	x	20.33		x	0.5		÷	27	=	2.3
2-FD	264+22.11 TO 264+32.11	1	x	17.12	10.0	x	20.33		x	0.5		÷	27	=	5.1
SUBTOTAL =															27.0

PHASE 2

REF #	STATION / DESCRIPTION	#		L			W			T			C.F.		CU YD
1-AS	263+48.86 TO 263+73.86	1	x	22.6		x	23.5		x	0.5		÷	27	=	9.8
1-AS	SQUARED CORNER	0.5	x	3.39		x	1.21		x	0.5		÷	27	=	0.0
2-AS	263+97.11 TO 264+22.11	1	x	22.6		x	23.5		x	0.5		÷	27	=	9.8
2-AS	SQUARED CORNER	-0.5	x	3.36		x	1.11		x	0.5		÷	27	=	0.0
1-FD	263+38.86 TO 263+48.86	1	x	17.76	10.0	x	20.33		x	0.5		÷	27	=	5.2
2-FD	264+22.11 TO 264+32.11	1	x	2.89	10.0	x	20.33		x	0.5		÷	27	=	2.4
SUBTOTAL =															27.2

TOTAL CARRIED TO GENERAL SUMMARY = 125

ITEM 407 - NON-TRACKING TACK COAT

REF #	STATION / DESCRIPTION	#	RATE		L		W		T		C.F.		GAL.
PHASE 1A													
1-PS	262+00.00 TO 263+81.72	1	0.08	x	183		x	0.75		x		÷ 9 =	1.2
2-PS	264+04.22 TO 265+75.00	1	0.08	x	178		x	0.75		x		÷ 9 =	1.2
SUBTOTAL =												2	
PHASE 1B													
3-PS	262+00.00 TO 263+42.00	1	0.08	x	150		x	0.75		x		÷ 9 =	1.0
4-PS	264+30.00 TO 264+68.59	1	0.08	x	52		x	0.75		x		÷ 9 =	0.3
SUBTOTAL =												1	
PHASE 1													
1-P	262+00.00 TO 263+38.86	1	0.08	x	122.96		x	15.85	20.33	x		÷ 9 =	19.8
		1	0.08	x	15.9		x	20.33		x		÷ 9 =	2.9
		1	0.06	x	122.96		x	15.85	20.33	x		÷ 9 =	14.8
		1	0.06	x	15.9		x	20.33		x		÷ 9 =	2.2
2-P	264+32.11 TO 265+75.00	1	0.08	x	117.17		x	20.33		x		÷ 9 =	21.2
		1	0.08	x	9.46		x	20.33	16.81	x		÷ 9 =	1.6
		1	0.08	x	16.26		x	16.81	17.01	x		÷ 9 =	2.4
		1	0.06	x	117.17		x	20.33		x		÷ 9 =	15.9
		1	0.06	x	9.46		x	20.33	16.81	x		÷ 9 =	1.2
		1	0.06	x	16.26		x	16.81	17.01	x		÷ 9 =	1.8
3-P	0+20.76 TO 0+75.00	1	0.08	x	54.23		x	36.9		x		÷ 9 =	17.8
		1	0.06	x	54.23		x	36.9		x		÷ 9 =	13.3
1-FD	263+38.86 TO 263+48.86	2	0.06	x	2.25	10.0	x	20.33		x		÷ 9 =	1.6
		1	0.08	x	20.33		x	0.75		x		÷ 9 =	0.1
2-FD	264+22.11 TO 264+32.11	2	0.06	x	17.12	10.0	x	20.33		x		÷ 9 =	3.6
		1	0.08	x	20.33		x	0.75		x		÷ 9 =	0.1
1-AS	263+48.86 TO 263+73.86	1	0.08	x	25		x	20.33		x		÷ 9 =	4.5
		1	0.06	x	25		x	20.33		x		÷ 9 =	3.4
2-AS	263+97.11 TO 264+22.11	1	0.08	x	25		x	20.33		x		÷ 9 =	4.5
		1	0.06	x	25		x	20.33		x		÷ 9 =	3.4
SUBTOTAL =												136.1	
PHASE 2													
1-P	262+00.00 TO 263+38.86	1	0.08	x	138.47		x	16.3	20.33	x		÷ 9 =	22.5
		1	0.08	x	0.39		x	20.33		x		÷ 9 =	0.1
		1	0.06	x	138.47		x	16.3	20.33	x		÷ 9 =	16.9
		1	0.06	x	0.39		x	20.33		x		÷ 9 =	0.1

2-P	264+32.11 TO 265+75.00	1	0.08	x	15.26		x	20.33		x		÷	9	=	2.8
		1	0.08	x	142.86		x	20.33	14.87	x		÷	9	=	22.3
		1	0.06	x	15.26		x	20.33		x		÷	9	=	2.1
		1	0.06	x	142.86		x	20.33	14.87	x		÷	9	=	16.8
1-FD	263+38.86 TO 263+48.86	2	0.06	x	17.76	10.0	x	20.33		x		÷	9	=	3.8
		1	0.08	x	20.33		x	0.75		x		÷	10	=	0.1
2-FD	264+22.11 TO 264+32.11	2	0.06	x	2.89	10.0	x	20.33		x		÷	9	=	1.8
		1	0.08	x	20.33		x	0.75		x		÷	10	=	0.1
1-AS	263+48.86 TO 263+73.86	1	0.08	x	25		x	20.33		x		÷	9	=	4.5
		1	0.06	x	25		x	20.33		x		÷	9	=	3.4
2-AS	263+97.11 TO 264+22.11	1	0.08	x	25		x	20.33		x		÷	9	=	4.5
		1	0.06	x	25		x	20.33		x		÷	9	=	3.4
SUBTOTAL =														105.2	
TOTAL CARRIED TO GENERAL SUMMARY =														245	
ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)															
PHASE 1															
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.					CU YD
1-FD	263+38.86 TO 263+48.86	1	x	2.25	10	x	20.33		x	0.270833		÷	27	=	1.2
2-FD	264+22.11 TO 264+32.11	1	x	17.12	10	x	20.33		x	0.270833		÷	27	=	2.8
1-P	262+00.00 TO 263+38.86	1	x	122.96		x	15.85	20.33	x	0.270833		÷	27	=	22.3
		1	x	15.9		x	20.33		x	0.270833		÷	27	=	3.2
2-P	264+32.11 TO 265+75.00	1	x	117.17		x	20.33		x	0.270833		÷	27	=	23.9
		1	x	9.46		x	20.33	16.81	x	0.270833		÷	27	=	1.8
		1	x	16.26		x	16.81	17.01	x	0.270833		÷	27	=	2.8
3-P	0+20.76 TO 0+75.00	1	x	54.23		x	36.9		x	0.270833		÷	27	=	20.1
1-AS	263+48.86 TO 263+73.86	1	x	25		x	20.33		x	0.270833		÷	27	=	5.1
2-AS	263+97.11 TO 264+22.11	1	x	25		x	20.33		x	0.270833		÷	27	=	5.1
SUBTOTAL =														88.3	
PHASE 2															
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.					CU YD
1-FD	263+38.86 TO 263+48.86	1	x	10	17.76	x	20.33		x	0.270833		÷	27	=	2.8
2-FD	264+22.11 TO 264+32.11	1	x	10	2.89	x	20.33		x	0.270833		÷	27	=	1.3
1-P	262+00.00 TO 263+38.86	1	x	138.47		x	16.3	20.33	x	0.270833		÷	27	=	25.4
		1	x	0.39		x	20.33		x	0.270833		÷	27	=	0.1
2-P	264+32.11 TO 265+75.00	1	x	15.26		x	20.33		x	0.270833		÷	27	=	3.1
		1	x	142.89		x	20.33	14.87	x	0.270833		÷	27	=	25.2
1-AS	263+48.86 TO 263+73.86	1	x	25		x	20.33		x	0.270833		÷	27	=	5.1
2-AS	263+97.11 TO 264+22.11	1	x	25		x	20.33		x	0.270833		÷	27	=	5.1
SUBTOTAL =														68.1	
TOTAL CARRIED TO GENERAL SUMMARY =														156	



OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 5 BRIDGE

DATE: 30-Oct-23
PID: 96323
CRS: PER-93-5.00

INITIALS: TDF
CHECKED BY: _____

CALCULATION SHEET

DESCRIPTION: EROSION CONTROL QUANTITIES

ITEM 601 - CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN														
REF #	STATION / DESCRIPTION	#		R^2		PI		T		C.F.		CU YD		
	REAR ABUT PIPE OUTLETS	2	x	4.00		x 3.1415		x			÷	9	=	2.8
	FWD. ABUT PIPE OUTLETS	2	x	4.00		x 3.1415		x			÷	9	=	2.8
			x			x		x			÷	9	=	
TOTAL CARRIED TO GENERAL SUMMARY =													6	
ITEM 601 - TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT														
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		SQ YD		
1-E	REAR APPROACH	1	x	25		x 5.5		x			÷	9	=	15.3
2-E	FWD APPROACH	1	x	25		x 5.5		x			÷	9	=	15.3
			x			x		x			÷	9	=	
TOTAL CARRIED TO GENERAL SUMMARY =													31	



OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 5 BRIDGE

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

INITIALS: TDF
CHECKED BY:

CALCULATION SHEET

DESCRIPTION:

PER-93-5.00
TRAFFIC CONTROL QUANTITIES

ITEM 621 - RAISED PAVEMENT MARKER REMOVED												
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		EACH
1-RPM	262+00 TO 265+75	5	x		x			x		÷	1	= 5
TOTAL CARRIED TO GENERAL SUMMARY =												5
ITEM 626 - BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL)												
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		EACH
1-B	263+41.10 TO 264+14.85	2	x		x			x		÷	1	= 2
2-B	263+56.62 TO 264+29.24	2	x		x			x		÷	1	= 2
TOTAL CARRIED TO GENERAL SUMMARY =												4
ITEM 626 - BARRIER REFLECTOR, TYPE 2 (BIDIRECTIONAL)												
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		EACH
1-G	262+34.83 TO 263+43.60	2	x		x			x		÷	1	= 2
2-G	264+12.32 TO 264+83.19	3	x		x			x		÷	1	= 3
3-G	262+37.84 TO 263+59.12	3	x		x			x		÷	1	= 3
4-G	264+26.77 TO 265+59.38	3	x		x			x		÷	1	= 3
TOTAL CARRIED TO GENERAL SUMMARY =												11
ITEM 630 - GROUND MOUNTED SUPPORT, NO. 3 POST, AS PER PLAN												
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		EACH
OM	PER-93-5.00	4	x	12		x		x		÷	1	= 48
TOTAL CARRIED TO GENERAL SUMMARY =												48
ITEM 630 - SIGN, FLAT SHEET												
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		SQ FT
OM	PER-93-5.00	4	x	3		x	1	x		÷	1	= 12
TOTAL CARRIED TO GENERAL SUMMARY =												12
ITEM 642 - EDGE LINE, 6", TYPE 1												
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		MILE
1-PM	262+00 TO 265+75	1	x	375		x		x		÷	5280	= 0.07
2-PM	262+00 TO 265+75	1	x	285		x		x		÷	5280	= 0.05
TOTAL CARRIED TO GENERAL SUMMARY =												0.12
ITEM 642 - CENTER LINE, TYPE 1												
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		MILE
3-PM	256+00 TO 265+75	1	x	887		x		x		÷	5280	= 0.17
4-PM	CR 97A, 0+28.25 TO 0+75	1	x	46.75		x		x		÷	5280	= 0.01
TOTAL CARRIED TO GENERAL SUMMARY =												0.18
ITEM 642 - STOP LINE, TYPE 1												
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		FT
5-PM	CR 97A, 0+28.25	1	x	18		x		x		÷	1	= 18
TOTAL CARRIED TO GENERAL SUMMARY =												18



OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 5 BRIDGE

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

INITIALS: TDF
CHECKED BY:

PER-93-5.00

CALCULATION SHEET

DESCRIPTION:

BRIDGE QUANTITIES

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SUBSTRUCTURE)														
PHASE 1														
DESCRIPTION	#		L			W			T			C.F.	CU YD	
REAR ABUT.	1	x	7.9375	7.2925	x	2.7504		x	1.75		÷	27	=	1.4
REAR ABUT.	1	x	27.0365	24.0246	x	1.4171	2.0891	x	1.75		÷	27	=	2.9
REAR ABUT.	-1	x	27.0365	24.0246	x	0.2083		x	0.8333		÷	27	=	-0.2
FWD ABUT.	1	x	7.4740	8.1075	x	2.8176		x	1.75		÷	27	=	1.4
FWD ABUT.	1	x	24.1453	24.1509	x	1.4843	2.2797	x	1.75		÷	27	=	2.9
FWD ABUT.	-1	x	24.1453	24.1509	x	0.2083		x	0.8333		÷	27	=	-0.2
SUBTOTAL=													8.2	
PHASE 2														
DESCRIPTION	#		L			W			T			C.F.	CU YD	
REAR ABUT.	1	x	7.6985	8.3364	x	4.0629		x	1.75		÷	27	=	2.1
REAR ABUT.	1	x	22.9086	22.9299	x	2.0891	2.7296	x	1.75		÷	27	=	3.6
REAR ABUT.	-1	x	22.9086	22.9299	x	0.2083		x	0.8333		÷	27	=	-0.1
FWD ABUT.	1	x	8.2429	7.6155	x	4.3600		x	1.75		÷	27	=	2.2
FWD ABUT.	1	x	22.7230	22.7096	x	2.2797	3.0284	x	1.75		÷	27	=	3.9
FWD ABUT.	-1	x	22.7230	22.7096	x	0.2083		x	0.8333		÷	27	=	-0.1
SUBTOTAL=													11.6	
TOTAL CARRIED TO GENERAL SUMMARY =													20	
ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SUPERSTRUCTURE)														
PHASE 1														
DESCRIPTION	#		L			W			T			C.F.	CU YD	
DECK	1	x	22.7		x	22.5156	22.6667	x	1.25		÷	27	=	23.7
DECK AT ABUTMENT	1	x	22.7		x	0.8333		x	0.2083		÷	27	=	0.1
SUBTOTAL=													23.8	
PHASE 2														
DESCRIPTION	#		L			W			T			C.F.	CU YD	
DECK	1	x	22.7		x	21.4323	21.333	x	1.25		÷	27	=	22.5
DECK AT ABUTMENT	1	x	22.7		x	0.8333		x	0.2083		÷	27	=	0.1
SUBTOTAL=													22.6	
TOTAL CARRIED TO GENERAL SUMMARY =													47	

ITEM 202 - APPROACH SLAB REMOVED

PHASE 1

DESCRIPTION	#		L		W		T		C.F.		SQ YD		
REAR	1	x	25		x	12.2303	12.4673	x		÷	9	=	34.3
FWD	1	x	25		x	12.6435	12.7331	x		÷	9	=	35.2
SUBTOTAL=											69.5		

PHASE 2

DESCRIPTION	#		L		W		T		C.F.		SQ YD		
REAR	1	x	25		x	11.6957	11.4515	x		÷	9	=	32.1
FWD	1	x	25		x	11.3143	11.2569	x		÷	9	=	31.3
SUBTOTAL=											63.4		

TOTAL CARRIED TO GENERAL SUMMARY = 133

ITEM 202 - BRIDGE RAILING REMOVED

PHASE 1

DESCRIPTION	#		L		W		T		C.F.		FT		
RIGHT RAIL	1	x	31.25		x			x		÷	1	=	31.3

PHASE 2

DESCRIPTION	#		L		W		T		C.F.		FT		
LEFT RAIL	1	x	31.25		x			x		÷	1	=	31.3

TOTAL CARRIED TO GENERAL SUMMARY = 62

ITEM 202 - REMOVAL MISC.: WEEPHOLE CLEANOUT

DESCRIPTION	#		L		W		T		C.F.		EACH		
REAR ABUTMENT	8	x			x			x		÷	1	=	8
FWD ABUTMENT	8	x			x			x		÷	1	=	8
SUBTOTAL=											16		

ITEM 509 - REINFORCEMENT (SEE SCHEDULE)

ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT

PHASE 1

DESCRIPTION	#		L		W		T		C.F.		EACH		
REAR ABUTMENT	37	x			x			x		÷	1	=	37.0
FWD ABUTMENT	37	x			x			x		÷	1	=	37.0
SUBTOTAL=											74.0		

PHASE 2

DESCRIPTION	#		L		W		T		C.F.		EACH		
REAR ABUTMENT	35	x			x			x		÷	1	=	35.0
FWD ABUTMENT	35	x			x			x		÷	1	=	35.0
SUBTOTAL=											70.0		

TOTAL CARRIED TO GENERAL SUMMARY = 144.0

ITEM 511 - CLASS QC2 CONCRETE, SUPERSTRUCTURE

PHASE 1

DESCRIPTION	#		L		W		T		C.F.		CU YD
BRIDGE DECK	1	x	23.25		x 22		x 1.5		÷ 27	=	28.4
REAR DIAPHRAGM	1	x	23.5		x 2.25		x 1.17	1.83	÷ 27	=	2.9
REAR DIAPHRAGM	1	x	1.08		x 2.25		x 2.67		÷ 27	=	0.2
REAR DIAPHRAGM	1	x	24.58		x 2.25	1.75	x 0.25		÷ 27	=	0.5
REAR DIAPHRAGM	1	x	24.58		x 0.8333		x 0.0833		÷ 27	=	0.1
REAR DIAPHRAGM	1	x	24.58		x 0.5		x 0.0417		÷ 27	=	0.0
FWD DIAPHRAGM	1	x	23.44		x 2.25		x 1.17	2.02	÷ 27	=	3.1
FWD DIAPHRAGM	1	x	1.07		x 2.25		x 2.67		÷ 27	=	0.2
FWD DIAPHRAGM	1	x	24.51		x 2.25	1.75	x 0.25		÷ 27	=	0.5
FWD DIAPHRAGM	1	x	24.51		x 0.8333		x 0.0833		÷ 27	=	0.1
FWD DIAPHRAGM	1	x	24.51		x 0.5		x 0.0417		÷ 27	=	0.0
SUBTOTAL=											36.0

PHASE 2

DESCRIPTION	#		L		W		T		C.F.		CU YD
BRIDGE DECK	1	x	23.25		x 22		x 1.5		÷ 27	=	28.4
REAR DIAPHRAGM	1	x	23.5		x 2.25		x 1.83	2.5	÷ 27	=	4.2
REAR DIAPHRAGM	1	x	1.07		x 2.25		x 4		÷ 27	=	0.4
REAR DIAPHRAGM	1	x	24.56		x 2.25	1.75	x 0.25		÷ 27	=	0.5
REAR DIAPHRAGM	1	x	24.56		x 0.8333		x 0.0833		÷ 27	=	0.1
REAR DIAPHRAGM	1	x	24.56		x 0.5		x 0.0417		÷ 27	=	0.0
FWD DIAPHRAGM	1	x	23.4		x 2.25		x 2.02	2.87	÷ 27	=	4.8
FWD DIAPHRAGM	1	x	1.06		x 2.25		x 4.37		÷ 27	=	0.4
FWD DIAPHRAGM	1	x	24.48		x 2.25	1.75	x 0.25		÷ 27	=	0.5
FWD DIAPHRAGM	1	x	24.48		x 0.8333		x 0.0833		÷ 27	=	0.1
FWD DIAPHRAGM	1	x	24.48		x 0.5		x 0.0417		÷ 27	=	0.0
SUBTOTAL=											39.4

TOTAL CARRIED TO GENERAL SUMMARY = 75

ITEM 511 - CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)

PHASE 1

DESCRIPTION	#		L			C.S. AREA			T			C.F.		CU YD
RIGHT PARAPET	1	x	23.28		x	3.63		x			÷	27	=	3.1
RIGHT PARAPET	1	x	10.93	11.48	x	4.04		x			÷	27	=	1.7
RIGHT PARAPET	1	x	10.92	10.35	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
SUBTOTAL=														10.4

PHASE 2

DESCRIPTION	#		L			W			T			C.F.		CU YD
LEFT PARAPET	1	x	23.22		x	3.63		x			÷	27	=	3.1
LEFT PARAPET	1	x	10.9	11.47	x	4.04		x			÷	27	=	1.7
LEFT PARAPET	1	x	10.89	10.36	x	4.04		x			÷	27	=	1.6
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
SUBTOTAL=														10.4

TOTAL CARRIED TO GENERAL SUMMARY = 21

ITEM 511 - CLASS QC1 CONCRETE, ABUTMENT

PHASE 1

DESCRIPTION	#		L			W			T			C.F.		CU YD
REAR ABUT. WW	1	x	7.3	6.63	x	1.75		x	3		÷	27	=	1.4
FWD. ABUT. WW	1	x	7.02	7.67	x	1.75		x	3		÷	27	=	1.4
SUBTOTAL=														2.8

PHASE 2

DESCRIPTION	#		L			W			T			C.F.		CU YD
REAR ABUT. WW	1	x	5.96	6.61	x	1.75		x	4.33		÷	27	=	1.8
FWD. ABUT. WW	1	x	6.4	5.76	x	1.75		x	4.7		÷	27	=	1.9
SUBTOTAL=														3.7

TOTAL CARRIED TO GENERAL SUMMARY = 7

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

DESCRIPTION	#		L		W		T		C.F.		SQ YD		
REAR ABUTMENT FACE	1	x	2		x	3		x		÷	9	=	0.7
	1	x	2		x	4.25		x		÷	9	=	0.9
	1	x	2		x	5.5		x		÷	9	=	1.2
	1	x	7.3		x	7		x		÷	9	=	5.7
	1	x	49.33		x	4		x		÷	9	=	21.9
	1	x	5.96		x	8.33		x		÷	9	=	5.5
	1	x	3		x	6.56		x		÷	9	=	2.2
	1	x	3		x	5.06		x		÷	9	=	1.7
REAR ABUT. RIGHT WW FACE	1	x	6.5		x	3	0.58	x		÷	9	=	1.3
REAR ABUT. LEFT WW FACE	1	x	7		x	3.56	0.93	x		÷	9	=	1.7
REAR ABUT. RIGHT WW TOP	1	x	6.5	5.14	x	1.5		x		÷	9	=	1.0
	0.5	x	1.25		x	1.04		x		÷	9	=	0.1
	1	x	2	1.04	x	1.75		x		÷	9	=	0.3
	2	x	2		x	1.75		x		÷	9	=	0.8
	2	x	1.25		x	1.75		x		÷	9	=	0.5
	1	x	1.5		x	1.75		x		÷	9	=	0.3
	1	x	7.3	6.63	x	1.75		x		÷	9	=	1.4
REAR ABUT. LEFT WW TOP	1	x	7	4.59	x	1.5		x		÷	9	=	1.0
	0.5	x	1.25		x	0.77		x		÷	9	=	0.1
	1	x	2	0.77	x	1.75		x		÷	9	=	0.3
	2	x	2		x	1.75		x		÷	9	=	0.8
	2	x	1.5		x	1.75		x		÷	9	=	0.6
	1	x	1.77		x	1.75		x		÷	9	=	0.3
	1	x	5.96	6.61	x	1.75		x		÷	9	=	1.2
REAR ABUT. RIGHT WW BACK	1	x	1.5		x	0.5		x		÷	9	=	0.1
	1	x	3.85		x	0.5		x		÷	9	=	0.2
	1	x	1.95		x	0.5		x		÷	9	=	0.1
	1	x	2		x	0.5		x		÷	9	=	0.1
	0.5	x	2		x	1.75		x		÷	9	=	0.2
	0.5	x	2		x	1.75		x		÷	9	=	0.2
	0.5	x	2.07		x	2.5		x		÷	9	=	0.3
	1	x	4.12		x	0.5		x		÷	9	=	0.2
REAR ABUT. LEFT WW BACK	1	x	1.5		x	0.5		x		÷	9	=	0.1
	1	x	3.26		x	0.5		x		÷	9	=	0.2
	1	x	1.29		x	0.5		x		÷	9	=	0.1
	0.5	x	3		x	2		x		÷	9	=	0.3
	0.5	x	3		x	2		x		÷	9	=	0.3
	0.5	x	2.35		x	3.69		x		÷	9	=	0.5
	1	x	2.92		x	0.5		x		÷	9	=	0.2

REAR DIAPHRAGM FACE	1	x	1.07		x	2.92		x			÷	9	=	0.3
	1	x	47		x	1.42	2.75	x			÷	9	=	10.9
	1	x	1.07		x	4.25		x			÷	9	=	0.5
FWD ABUTMENT FACE	1	x	2.5		x	3.86		x			÷	9	=	1.1
FWD ABUTMENT FACE	1	x	3		x	5.36		x			÷	9	=	1.8
	1	x	3		x	6.86		x			÷	9	=	2.3
	1	x	6.4		x	8.7		x			÷	9	=	6.2
	1	x	49.17		x	4		x			÷	9	=	21.9
	1	x	7.02		x	7		x			÷	9	=	5.5
	1	x	2		x	5.57		x			÷	9	=	1.2
	1	x	2		x	4.32		x			÷	9	=	1.0
1	x	2.5		x	4.6		x			÷	9	=	1.3	
FWD ABUT. LEFT WW FACE	1	x	7		x	5.4	1.25	x			÷	9	=	2.6
FWD ABUT. RIGHT WW FACE	1	x	6.5		x	3.07	0.65	x			÷	9	=	1.3
FWD ABUT. LEFT WW TOP	1	x	7	5.68	x	1.5		x			÷	9	=	1.1
	0.5	x	1.25		x	1.54		x			÷	9	=	0.1
	1	x	2.5	1.54	x	1.75		x			÷	9	=	0.4
	2	x	3		x	1.75		x			÷	9	=	1.2
	2	x	1.5		x	1.75		x			÷	9	=	0.6
	1	x	1.96		x	1.75		x			÷	9	=	0.4
	1	x	5.76	6.4	x	1.75		x			÷	9	=	1.2
FWD ABUT. RIGHT WW TOP	1	x	6.5	4.09	x	1.5		x			÷	9	=	0.9
	0.5	x	1.25		x	0.27		x			÷	9	=	0.0
	1	x	2.5	0.27	x	1.75		x			÷	9	=	0.3
	2	x	2		x	1.75		x			÷	9	=	0.8
	2	x	1.25		x	1.75		x			÷	9	=	0.5
	1	x	1.49		x	1.75		x			÷	9	=	0.3
	1	x	7.02	7.66	x	1.75		x			÷	9	=	1.4
FWD ABUT. LEFT WW BACK	1	x	1.5		x	0.5		x			÷	9	=	0.1
	1	x	4.35		x	0.5		x			÷	9	=	0.2
	1	x	2.35		x	0.5		x			÷	9	=	0.1
	0.5	x	2		x	3		x			÷	9	=	0.3
	0.5	x	2		x	3		x			÷	9	=	0.3
	0.5	x	2.46		x	3.92		x			÷	9	=	0.5
	1	x	1.84		x	0.5		x			÷	9	=	0.1
FWD ABUT. RIGHT WW BACK	1	x	1.5		x	0.5		x			÷	9	=	0.1
	1	x	2.76		x	0.5		x			÷	9	=	0.2
	1	x	1.26		x	0.5		x			÷	9	=	0.1
	0.5	x	1.75		x	2		x			÷	9	=	0.2
	0.5	x	1.75		x	2		x			÷	9	=	0.2
	0.5	x	2		x	2.39		x			÷	9	=	0.3
	1	x	5.27		x	0.5		x			÷	9	=	0.3

FWD DIAPHRAGM FACE	1	x	1.07		x	2.92		x			÷	9	=	0.3
	1	x	47		x	1.42	3.12	x			÷	9	=	11.9
	1	x	1.07		x	4.62		x			÷	9	=	0.5
PARAPETS	2	x	19.52		x	8.96		x			÷	9	=	38.9
	4	x	1.87		x	7.25		x			÷	9	=	6.0
	2	x	11.49	10.93	x	7.17		x			÷	9	=	17.9
	2	x	10.35	10.92	x	7.17		x			÷	9	=	16.9
	4	x	10		x	7.17	6.82	x			÷	9	=	31.1
	4	x	2.5		x	6.82		x			÷	9	=	7.6
	4	x	1.5		x	6.9		x			÷	9	=	4.6

TOTAL CARRIED TO GENERAL SUMMARY = 262

ITEM 512 - TYPE 2 WATERPROOFING

PHASE 1

DESCRIPTION	#		L		W		T		C.F.		SQ YD		
REAR ABUT. WW HORIZ.	1	x	6.63		x	3		x		÷	9	=	2.2
REAR ABUT. WW VERT.	1	x	1.5		x	3		x		÷	9	=	0.5
REAR DIAPHRAGM VERT.	0.5	x	1.5		x	3		x		÷	9	=	0.3
FWD ABUT. WW HORIZ.	1	x	7.66		x	3		x		÷	9	=	2.6
FWD ABUT. WW VERT.	1	x	1.57		x	3		x		÷	9	=	0.5
FWD DIAPHRAGM VERT.	0.5	x	2.3		x	3		x		÷	9	=	0.4
SUBTOTAL=											6.5		

PHASE 2

DESCRIPTION	#		L		W		T		C.F.		SQ YD		
REAR ABUT. WW HORIZ.	1	x	6.61		x	3		x		÷	9	=	2.2
REAR ABUT. WW VERT.	1	x	2.56		x	3		x		÷	9	=	0.9
REAR DIAPHRAGM VERT.	0.5	x	1.5		x	3		x		÷	9	=	0.3
FWD ABUT. WW HORIZ.	1	x	5.76		x	3		x		÷	9	=	1.9
FWD. ABUT. WW VERT.	1	x	2.86		x	3		x		÷	9	=	1.0
FWD DIAPHRAGM VERT.	0.5	x	2.3		x	3		x		÷	9	=	0.4
SUBTOTAL=											6.7		

TOTAL CARRIED TO GENERAL SUMMARY = 13

ITEM 512 - TYPE A WATERPROOFING

PHASE 1

DESCRIPTION	#		L		W		T		C.F.		SQ YD		
REAR ABUT.	1	x	24.7		x	1.75		x		÷	9	=	4.8
FWD. ABUT.	1	x	24.6		x	1.75		x		÷	9	=	4.8
SUBTOTAL=											9.6		

PHASE 2

DESCRIPTION	#		L		W		T		C.F.		SQ YD		
REAR ABUT.	1	x	24.6		x	1.75		x		÷	9	=	4.8
FWD. ABUT.	1	x	24.6		x	1.75		x		÷	9	=	4.8
SUBTOTAL=											9.6		

TOTAL CARRIED TO GENERAL SUMMARY = 19

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	24.7		x 0.5		x		÷ 1	=	12.4
FWD ABUTMENT BEARING	1	x	24.6		x 0.5		x		÷ 1	=	12.3
SUBTOTAL=											24.7

PHASE 1

DESCRIPTION	#		L		W		T		C.F.		SQ FT
REAR ABUTMENT BEARING	1	x	24.7		x 0.5		x		÷ 1	=	12.4
FWD ABUTMENT BEARING	1	x	24.6		x 0.5		x		÷ 1	=	12.3
SUBTOTAL=											24.7

TOTAL CARRIED TO GENERAL SUMMARY = 50

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	24.7		x 0.4167		x		÷ 1	=	10.3
FWD ABUTMENT BEARING	1	x	24.6		x 0.4167		x		÷ 1	=	10.3
REAR DIAPHRAGM	1	x	2.9167		x 1.87		x		÷ 1	=	5.5
FWD DIAPHRAGM	1	x	2.9167		x 1.87		x		÷ 1	=	5.5
PARAPET	2	x	3		x 1.6	1	x		÷ 1	=	7.8
SUBTOTAL=											39.4

PHASE 2

DESCRIPTION	#		L		W		T		C.F.		SQ FT
REAR ABUTMENT BEARING	1	x	24.7		x 0.4167		x		÷ 1	=	10.3
FWD ABUTMENT BEARING	1	x	24.6		x 0.4167		x		÷ 1	=	10.3
REAR DIAPHRAGM	1	x	4.2467		x 1.86		x		÷ 1	=	7.9
FWD DIAPHRAGM	1	x	4.6167		x 1.86		x		÷ 1	=	8.6
PARAPET	2	x	3		x 1.6	1	x		÷ 1	=	7.8
SUBTOTAL=											44.9

TOTAL CARRIED TO GENERAL SUMMARY = 84

ITEM 516 - SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL

PHASE 1

DESCRIPTION	#		L		W		T		C.F.		FT	
REAR ABUT. HORIZONTAL	1	x	24.67		x		x		÷	1	=	24.7
REAR ABUT. VERTICAL	1	x	2.5		x		x		÷	1	=	2.5
FWD ABUT. HORIZONTAL	1	x	24.67		x		x		÷	1	=	24.7
FWD ABUT. VERTICAL	1	x	2.5		x		x		÷	1	=	2.5
SUBTOTAL=											54.4	

PHASE 2

DESCRIPTION	#		L		W		T		C.F.		FT	
REAR ABUT. HORIZONTAL	1	x	24.67		x		x		÷	1	=	24.7
REAR ABUT. VERTICAL	1	x	4		x		x		÷	1	=	4.0
FWD ABUT. HORIZONTAL	1	x	24.58		x		x		÷	1	=	24.6
FWD ABUT. VERTICAL	1	x	4.2		x		x		÷	1	=	4.2
SUBTOTAL=											57.5	

TOTAL CARRIED TO GENERAL SUMMARY = 112

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

DESCRIPTION	#		L		W		T		C.F.		FT	
REAR APPROACH	1	x	43.46		x		x		÷	1	=	43.5
FWD APPROACH	1	x	43.3		x		x		÷	1	=	43.3
TOTAL CARRIED TO GENERAL SUMMARY =											87	

ITEM 518 - SCUPPERS, INCLUDING SUPPORTS

PHASE 1

DESCRIPTION	#		L		W		T		C.F.		EACH	
DECK	2	x			x		x		÷	1	=	2.0
TOTAL CARRIED TO GENERAL SUMMARY =											2	

ITEM 518 - POROUS BACKFILL WITH GEOTEXTILE FABRIC

PHASE 1

DESCRIPTION	#		L		W		T		C.F.		CU YD		
BEHIND REAR ABUT.	1	x	4.9		x	2	x	1	÷	27	=	0.4	
	1	x	5.18		x	2	x	1	4.4	÷	27	=	1.0
	1	x	7		x	2	x	4.4		÷	27	=	2.3
	1	x	22.4		x	2	x	4.4	5.06	÷	27	=	7.8
BEHIND FWD ABUT.	1	x	3.73		x	2	x	1.7		÷	27	=	0.5
	1	x	3.19		x	2	x	1.7	4.5	÷	27	=	0.7
	1	x	6.66		x	2	x	4.5		÷	27	=	2.2
	1	x	24.55		x	2	x	4.5	5.3	÷	27	=	8.9
SUBTOTAL=											23.8		

PHASE 2														
DESCRIPTION	#		L		W		T		C.F.				CU YD	
BEHIND REAR ABUT.	1	x	3.14		x	2		x	1.56		÷	27	=	0.4
	1	x	7.44		x	2		x	1.56	5.73	÷	27	=	2.0
	1	x	4.54		x	2		x	5.73		÷	27	=	1.9
	1	x	24.62		x	2		x	5.73	5.06	÷	27	=	9.8
BEHIND FWD ABUT.	1	x	5.73		x	2		x	1.86		÷	27	=	0.8
	1	x	8.42		x	2		x	1.86	6.16	÷	27	=	2.5
	1	x	4.93		x	2		x	6.16		÷	27	=	2.2
	1	x	22.32		x	2		x	6.16	5.3	÷	27	=	9.5
SUBTOTAL=													29.1	
TOTAL CARRIED TO GENERAL SUMMARY =													53	
ITEM 518 - 6" PERFORATED CORRUGATED PLASTIC PIPE														
PHASE 1														
DESCRIPTION	#		L		W		T		C.F.				FT	
REAR ABUT. BACKFILL	1	x	40		x			x			÷	1	=	40.0
FWD ABUT. BACKFILL	1	x	38		x			x			÷	1	=	38.0
SUBTOTAL=													78.0	
PHASE 2														
DESCRIPTION	#		L		W		T		C.F.				FT	
REAR ABUT. BACKFILL	1	x	40		x			x			÷	1	=	40.0
FWD ABUT. BACKFILL	1	x	42		x			x			÷	1	=	42.0
SUBTOTAL=													82.0	
TOTAL CARRIED TO GENERAL SUMMARY =													160	
ITEM 518 - 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS														
PHASE 1														
DESCRIPTION	#		L		W		T		C.F.				FT	
REAR ABUT. BACKFILL	1	x	10		x			x			÷	1	=	10.0
FWD ABUT. BACKFILL	1	x	10		x			x			÷	1	=	10.0
SUBTOTAL=													20.0	
PHASE 2														
DESCRIPTION	#		L		W		T		C.F.				FT	
REAR ABUT. BACKFILL	1	x	10		x			x			÷	1	=	10.0
FWD ABUT. BACKFILL	1	x	10		x			x			÷	1	=	10.0
SUBTOTAL=													20.0	
TOTAL CARRIED TO GENERAL SUMMARY =													40	

ITEM 519 - PATCHING CONCRETE STRUCTURE														
DESCRIPTION	#		L		W		T		C.F.				SQ FT	
FWD ABUTMENT	1	x	1		x	0.5		x			÷	1	=	1.0
SUBTOTAL=													1.0	
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		x			÷	9	=	61.1
FWD A.S.	1	x	25		x	22		x			÷	9	=	61.1
SUBTOTAL=													122.2	
PHASE 2														
DESCRIPTION	#		L		W		T		C.F.				SQ YD	
REAR A.S.	1	x	25		x	22		x			÷	9	=	61.1
FWD A.S.	1	x	25		x	22		x			÷	9	=	61.1
SUBTOTAL=													122.2	
TOTAL CARRIED TO GENERAL SUMMARY =													244	