



OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 5 BRIDGE

Department of
Transportation

CALCULATION SHEET

DATE: 10-Sep-25

PID: 115691

CRS:

DESCRIPTION:

INITIALS: TDF

CHECKED BY: MHK

FAI-22-03.68

ROADWAY QUANTITIES

ITEM 202 - PAVEMENT REMOVED

REF #	STATION / DESCRIPTION	#		L		AVG. W		T		C.F.		SQ YD
1-P	STA. 194+50.00 TO STA. 197+67.16	1	x	317.16	x	26		x		÷	9	= 916.2
1-P	STA. 197+67.16 TO STA. 197+82.16	2	x	15.0	x	1.4	2.1	x		÷	9	= 5.8
2-P	STA. 198+67.84 TO STA. 198+82.84	2	x	15.0	x	0.9	1.8	x		÷	9	= 4.5
2-P	STA. 198+82.84 TO STA. 201+50.00	1	x	267.16	x	25.08		x		÷	9	= 744.5
TOTAL CARRIED TO GENERAL SUMMARY =												1,671

ITEM 202 - WEARING COURSE REMOVED

REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		SQ YD
	EXISTING BRIDGE	1	x	85.5	x	30		x		÷	9	= 285.0
1-XS	EXISTING REAR APPROACH SLAB	1	x	15	x	24		x		÷	9	= 40.0
2-XS	EXISTING FWD APPROACH SLAB	1	x	15	x	24		x		÷	9	= 40.0
TOTAL CARRIED TO GENERAL SUMMARY =												325

ITEM 202 - GUARDRAIL REMOVED

REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		FT
1-GR	STA. 196+45.33 TO STA. 197+82.25	1	x	137.5	x			x		÷	1	= 137.50
2-GR	STA. 197+69.53 TO STA. 197+82.25	1	x	12.5	x			x		÷	1	= 12.50
3-GR	STA. 198+67.75 TO STA. 199+98.06	1	x	131.25	x			x		÷	1	= 131.25
4-GR	STA. 198+67.75 TO STA. 200+04.54	1	x	137.5	x			x		÷	1	= 137.50
TOTAL CARRIED TO GENERAL SUMMARY =												419

ITEM 203 - EXCAVATION

SEE EARTHWORK CALCULATION SHEETS

ITEM 203 - EMBANKMENT

SEE EARTHWORK CALCULATION SHEETS

ITEM 204 - SUBGRADE COMPACTION (A)

REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		SQ YD
2-P	STA. 198+69.25 TO STA. 199+50.00	1	x	80.75	x	36.667		x		÷	9	= 329.0
2-P	STA. 199+50.00 TO STA. 201+50.00	1	x	200	x	36.667	32.667	x		÷	9	= 770.4
	SLEEPER SLABS	2	x	8	x	35		x		÷	9	= 62.2
	APPROACH SLABS	2	x	17.7	x	35		x		÷	9	= 137.7
TOTAL CARRIED TO GENERAL SUMMARY =												1,299

ITEM 204 - SUBGRADE COMPACTION (B)

REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		SQ YD
1-P	STA. 194+50.00 TO STA. 196+50.00	1	x	200	x	32.667	36.667	x		÷	9	= 770.4
1-P	STA. 196+50.00 TO STA. 197+30.75	1	x	80.75	x	36.667		x		÷	9	= 329.0
TOTAL CARRIED TO GENERAL SUMMARY =												1,099



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ROADWAY QUANTITIES

ITEM 204 - EXCAVATION OF SUBGRADE

SEE "UNDERCUT" VOLUME ON EARTHWORK CALCULATION SHEET

ITEM 204 - GRANULAR MATERIAL, TYPE B

SEE "UNDERCUT" VOLUME ON EARTHWORK CALCULATION SHEET

ITEM 204 - GEOGRID

REF #	STATION / DESCRIPTION	#		L			W			T			C.F.		SQ YD
1-P	STA. 194+50.00 TO STA. 196+50.00	1	x	200		x	32.667	36.667	x			÷	9	=	770.4
1-P	STA. 196+50.00 TO STA. 197+30.75	1	x	80.75		x	36.667		x			÷	9	=	329.0
TOTAL CARRIED TO GENERAL SUMMARY =															1,099

ITEM 209 - RESHAPING UNDER GUARDRAIL

REF #	STATION / DESCRIPTION	#		L			W			T			C.F.		STA.
1-G	STA. 196+13.63 TO STA. 197+59.90	1	x	146.25		x			x			÷	100	=	1.46
2-G	STA. 195+50.69 TO STA. 197+59.90	1	x	209.25		x			x			÷	100	=	2.09
3-G	STA. 198+40.10 TO STA. 200+48.85	1	x	208.75		x			x			÷	100	=	2.09
4-G	STA.198+40.10 TO STA. 199+86.37	1	x	146.25		x			x			÷	100	=	1.46
TOTAL CARRIED TO GENERAL SUMMARY =															7

ITEM 606 - GUARDRAIL, TYPE MGS

REF #	STATION / DESCRIPTION	#		L			W			T			C.F.			FT
1-G	STA. 196+70.50 TO STA. 197+33.00	1	x	62.5		x			x			÷	1	=		62.5
2-G	STA. 196+08.00 TO STA. 197+33.00	1	x	125		x			x			÷	1	=		125.0
3-G	STA. 198+67.00 TO STA. 199+92.00	1	x	125		x			x			÷	1	=		125.0
4-G	STA. 198+67.00 TO STA. 199+29.50	1	x	62.5		x			x			÷	1	=		62.5
TOTAL CARRIED TO GENERAL SUMMARY =																375

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)

REF #	STATION / DESCRIPTION	#		L			W			T			C.F.		EACH
1-G	STA. 196+13.63 TO STA. 196+70.50	1	X			X			X			÷	1	=	1
2-G	STA. 195+50.69 TO STA. 196+08.00	1	X			X			X			÷	1	=	1
3-G	STA. 199+92.00 TO STA. 200+48.85	1	X			X			X			÷	1	=	1
4-G	STA. 199+29.50 TO STA. 199+86.37	1	X			X			X			÷	1	=	1
TOTAL CARRIED TO GENERAL SUMMARY =															4

ITEM 606 - MGS BRIDGE TERMINAL ASSEMBLY, TYPE TST-2

REF #	STATION / DESCRIPTION	#		L			W			T			C.F.		EACH
1-G	STA. 197+33.00 TO STA. 197+59.90	1	X			X			X			÷	1	=	1
2-G	STA. 197+33.00 TO STA. 197+59.90	1	X			X			X			÷	1	=	1
3-G	STA. 198+40.10 TO STA. 198+67.00	1	X			X			X			÷	1	=	1
4-G	STA. 198+40.10 TO STA. 198+67.00	1	X			X			X			÷	1	=	1
TOTAL CARRIED TO GENERAL SUMMARY =														4	



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EROSION CONTROL QUANTITIES

ITEM 601 - ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC

REF #	STATION / DESCRIPTION	#		L			W			T			C.F.			CU YD
1-RC	LEFT CHANNEL BANK	1.1623	x	148		x	8		x	2		÷	27	=	101.9	
		1.1623	x	56	114.5	x	19.25		x	2		÷	27	=	141.3	
		-1.1623	x	52		x	2.25		x	2		÷	27	=	-10.1	
2-RC	RIGHT CHANNEL BANK	1.1623	x	110		x	8		x	2		÷	27	=	75.8	
		1.1623	x	56	107.67	x	19.25		x	2		÷	27	=	135.6	
		-1.1623	x	52		x	2.25		x	2		÷	27	=	-10.1	
TOTAL CARRIED TO GENERAL SUMMARY =															434	

ITEM 659 - SEEDING AND MULCHING, CLASS 2

REF #	STATION / DESCRIPTION	#		AREA (SF)			W			T			C.F.		SQ YD
P.25	STA. 194+50.00 TO STA. 201+50.00	1	x	19305		x			x			÷	9	=	2145.0
P.30	CHANNEL	1	x	1458		x			x			÷	9	=	162.0
TOTAL CARRIED TO GENERAL SUMMARY =															2,307

ITEM 659 - COMMERCIAL FERTILIZER

REF #	STATION / DESCRIPTION	RATE		AREA (SF)		W		T		C.F.		TON	
	10-20-10 @ 30 LBS/1000 SF	30	x	19305		x		x		÷	2E+06	=	0.29
	10-20-10 @ 30 LBS/1000 SF	30	x	1458		x		x		÷	2E+06	=	0.02
TOTAL CARRIED TO GENERAL SUMMARY =													0.31

ITEM 659 - LIME

REF #	STATION / DESCRIPTION	#		AREA (SF)		W		T		C.F.		ACRE	
	SEEDING & MULCHING (MAINLINE)	1	x	19305		x		x		÷	43560	=	0.44
	SEEDING & MULCHING (CHANNEL)	1	x	1458		x		x		÷	43560	=	0.03
TOTAL CARRIED TO GENERAL SUMMARY =													0.47

ITEM 659 - WATER

REF #	STATION / DESCRIPTION	#		AREA (SF)		W		T		C.F.		MGAL	
	SEEDING & MULCHING (MAINLINE)	300	x	19305		x		x		÷	1E+06	=	5.8
	SEEDING & MULCHING (CHANNEL)	300	x	1458		x		x		÷	1E+06	=	0.4
TOTAL CARRIED TO GENERAL SUMMARY =													6.20



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PAVEMENT QUANTITIES

ITEM 252 - FULL DEPTH PAVEMENT SAWING

REF #	STATION / DESCRIPTION	#		L			W			T			C.F.		FT
1-P	STA. 194+50.00	1	x	26.25		x			x			÷	1	=	26.3
2-P	STA. 201+50.00	1	x	25.33		x			x			÷	1	=	25.3
TOTAL CARRIED TO GENERAL SUMMARY =															52

ITEM 301 - ASPHALT CONCRETE BASE, PG64-22, (449)

REF #	STATION / DESCRIPTION	#		L			W			T			C.F.		CU YD
1-P	STA. 194+50.00 TO STA. 196+50.00	1	x	200		x	28.67	32.67	x	0.5		÷	27	=	113.6
	STA. 196+50.00 TO STA. 197+33.00	1	x	83		x	32.67		x	0.5		÷	27	=	50.2
2-P	STA. 198+67.00 TO STA. 199+50.00	1	x	83		x	32.67		x	0.5		÷	27	=	50.2
	STA. 199+50.00 TO STA. 201+50.00	1	x	200		x	32.67	28.67	x	0.5		÷	27	=	113.6
TOTAL CARRIED TO GENERAL SUMMARY =															328

ITEM 304 - AGGREGATE BASE

REF #	STATION / DESCRIPTION	#		L			W			T			C.F.			CU YD
1-P	STA. 194+50.00 TO STA. 196+50.00	1	x	200		x	29.67	33.67	x	1.25		÷	27	=	293.2	
	STA. 196+50.00 TO STA. 197+29.50	1	x	79.25		x	33.67		x	1.25		÷	27	=	123.5	
	STA. 197+29.50 TO STA. 197+30.75	1	x	1.25		x	33.67		x	0.5		÷	27	=	0.8	
2-P	STA. 197+69.25 TO STA. 197+70.50	1	x	1.25		x	33.67		x	0.5		÷	27	=	0.8	
	STA. 198+70.50 TO STA. 199+50.00	1	x	79.25		x	33.67		x	0.5		÷	27	=	49.4	
	STA. 199+50.00 TO STA. 201+50.00	1	x	200		x	33.67	29.67	x	1.25		÷	27	=	293.2	
	SLEEPER SLABS	2	x	8		x	35		x	0.5		÷	27	=	10.4	
	APPROACH SLABS	2	x	17.7		x	35		x	0.5		÷	27	=	22.9	
TOTAL CARRIED TO GENERAL SUMMARY =															794	

ITEM 407 - NON-TRACKING TACK COAT

REF #	STATION / DESCRIPTION	RATE		L			W			APPLICATIONS			C.F.			GAL.
1-P	STA. 194+50.00 TO STA. 196+50.00	0.06	x	200		x	28	32	x	2		÷	9	=	80.0	
	STA. 196+50.00 TO STA. 197+33.00		x	83		x	32		x	2		÷	9	=	35.4	
2-P	STA. 198+67.00 TO STA. 199+50.00	0.06	x	83		x	32		x	2		÷	9	=	35.4	
	STA. 199+50.00 TO STA. 201+50.00		x	200		x	32	28	x	2		÷	9	=	80.0	
TOTAL CARRIED TO GENERAL SUMMARY =															231	



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CALCULATION SHEET

DESCRIPTION:

PAVEMENT QUANTITIES

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

REF #	STATION / DESCRIPTION	#		L			W			T			C.F.			CU YD
1-P	STA. 194+50.00 TO STA. 196+50.00	1	x	200		x	28	32	x	0.125		÷	27	=	27.8	
	STA. 196+50.00 TO STA. 197+33.00	1	x	83		x	32		x	0.125		÷	27	=	12.3	
2-P	STA. 198+67.00 TO STA. 199+50.00	1	x	83		x	32		x	0.125		÷	27	=	12.3	
	STA. 199+50.00 TO STA. 201+50.00	1	x	200		x	32	28	x	0.125		÷	27	=	27.8	
TOTAL CARRIED TO GENERAL SUMMARY =															80	

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

REF #	STATION / DESCRIPTION	#		L			W			T			C.F.		CU YD
1-P	STA. 194+50.00 TO STA. 196+50.00	1	x	200		x	28	32	x	0.1458		÷	27	=	32.4
	STA. 196+50.00 TO STA. 197+33.00	1	x	83		x	32		x	0.1458		÷	27	=	14.3
2-P	STA. 198+67.00 TO STA. 199+50.00	1	x	83		x	32		x	0.1458		÷	27	=	14.3
	STA. 199+50.00 TO STA. 201+50.00	1	x	200		x	32	28	x	0.1458		÷	27	=	32.4
TOTAL CARRIED TO GENERAL SUMMARY =															93



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TRAFFIC CONTROL QUANTITIES

ITEM 621 - RAISED PAVEMENT MARKER REMOVED

REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		EACH	
1-RPM	STA. 194+50.00 TO STA. 201+50.00	11	x			x		x		÷	1	=	11
TOTAL CARRIED TO GENERAL SUMMARY =													11

ITEM 626 - BARRIER REFLECTOR, TYPE 2 (BIDIRECTIONAL)

REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		EACH	
1-G/1-B/3-G	STA. 196+70.50 TO STA. 200+48.85	6	x			x				÷	1	=	6
2-G/2-B/4-G	STA. 195+50.69 TO STA. 199+86.37	6	x			x				÷	1	=	6
TOTAL CARRIED TO GENERAL SUMMARY =													12

ITEM 630 - GROUND MOUNTED SUPPORT, NO. 3 POST, AS PER PLAN

REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		FEET	
OM	OBJECT MARKERS	4	x	12		x		x		÷	1	=	48.0
TOTAL CARRIED TO GENERAL SUMMARY =													48.0

ITEM 630 - SIGN, FLAT SHEET

REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		SQ FT		
I-H25a	I-H25a, FAI-22-03.740	2	x	1		x	1		x		÷	1	=	2.0
TOTAL CARRIED TO GENERAL SUMMARY =														2.0

ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL

REF #	STATION / DESCRIPTION	#		L			W			T			C.F.		EACH
	"WEIGHT LIMIT, SINGLE UNIT"	1	x			x			x			÷	1	=	1.0
TOTAL CARRIED TO GENERAL SUMMARY =															1.0

ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND REERECTION, AS PER PLAN

REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		EACH	
OM	OBJECT MARKERS	4	x			x		x		÷	1	=	4.0
TOTAL CARRIED TO GENERAL SUMMARY =													4.0

ITEM 630 - REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL, AS PER PLAN

REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		EACH	
OM	OBJECT MARKERS	4	x			x		x		÷	1	=	4.0
TOTAL CARRIED TO GENERAL SUMMARY =													4.0



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DESCRIPTION: TRAFFIC CONTROL QUANTITIES

ITEM 646 - EDGE LINE, 6"														
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		MILE		
1-PM	STA. 194+50 TO STA. 201+50, LT	1	x	701.46		x		x		÷	5280	=	0.13	
2-PM	STA. 194+50 TO STA. 201+50, RT	1	x	698.56		x		x		÷	5280	=	0.13	
TOTAL CARRIED TO GENERAL SUMMARY =													0.26	
ITEM 646 - CENTER LINE														
REF #	STATION / DESCRIPTION	#		L		W		T		C.F.		MILE		
3-PM	STA. 194+50 TO STA. 201+50	1	x	700		x		x		÷	5280	=	0.13	
TOTAL CARRIED TO GENERAL SUMMARY =													0.13	



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DESCRIPTION:

BRIDGE QUANTITIES

ITEM 202 - STRUCTURE REMOVED, OVER 20 FOOT SPAN (FOR REFERENCE ONLY)

DESCRIPTION	#		L		W		T		C.F.		FEET
EXISTING BOX BEAMS											
STANDARD B21-36 BOX BEAMS	20	x	42.5		x			x		÷ 1 =	850.0
DESCRIPTION	#		L		W / AREA		T		C.F.		EACH
EXISTING SUBSTRUCTURES											
ABUTMENT FOOTINGS	2	x	54.95	44.94	x	18.55		x		÷ 27 =	68.6
ABUTMENT WINGWALLS	4	x	10.646		x	2.125	1.25	x	8.66	11.66 ÷ 27 =	27.0
ABUTMENT BREASTWALLS	4	x	15.00		x	2.125		x	9.89	9.65 ÷ 27 =	46.1
ABUTMENT CURTAIN WALLS	4	x	3.00		x	0.7917		x	2.00	÷ 27 =	0.7
PIER FOOTING	1	x	32.67		x	6.5		x	3.000	÷ 27 =	23.6
PIER WALL	1	x	10.588		x	117.2435	86.1921	x		÷ 27 =	39.9
PIER CAP	1	x	30.375		x	2.75		x		÷ 27 =	3.1
LUMP SUM CARRIED TO GENERAL SUMMARY											LS

ITEM 202 - APPROACH SLAB REMOVED

DESCRIPTION	#		L		W		T		C.F.		SQ YD
REAR APPROACH SLAB	1	x	15		x	24		x		÷ 9 =	40.0
FORWARD APPROACH SLAB	1	x	15		x	24		x		÷ 9 =	40.0
TOTAL CARRIED TO GENERAL SUMMARY =											80

ITEM 202 - BRIDGE RAILING REMOVED

DESCRIPTION	#		L		W		T		C.F.		FT
EX. DEEP BEAM RAIL W/ TUB. BACK.	2	x	85.5		x			x		÷ 1 =	171.0
TOTAL CARRIED TO GENERAL SUMMARY =											171

ITEM 503 - COFFERDAMS AND EXCAVATION BRACING

DESCRIPTION	#		L		W		T		C.F.		EACH
		x			x			x		÷	
LUMP SUM CARRIED TO GENERAL SUMMARY											LS



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BRIDGE QUANTITIES

ITEM 503 - UNCLASSIFIED EXCAVATION (FOR REFERENCE ONLY)

DESCRIPTION	#		L			W/AREA			T			C.F.			CU YD
EXISTING REAR ABUTMENT REMOVAL	1	x	60		x	15		x	4.25	2.5	÷	27	=	112.5	
	1	x	37.6		x	130		x			÷	27	=	181.0	
EXISTING FWD ABUTMENT REMOVAL	1	x	60		x	15		x	16	10	÷	27	=	433.3	
	1	x	37.6		x	130		x			÷	27	=	181.0	
SUBTRACT ABUTMENT VOLUME	-1	CALC'D ABOVE												-100.4	
EXISTING PIER REMOVAL	1	x	40		x	15		x	10		÷	27	=	222.2	
PROP REAR ABUTMENT (FRONT)	1	x	52		x	15		x			÷	27	=	28.9	
PROP REAR ABUTMENT (BACK)	1	x	52		x	100		x			÷	27	=	192.6	
PROP FWD ABUTMENT (FRONT)	1	x	52		x	16		x			÷	27	=	30.8	
PROP FWD ABUTMENT (BACK)	1	x	52		x	30		x			÷	27	=	57.8	

LUMP SUM CARRIED TO GENERAL SUMMARY**LS****ITEM 505 - PILE DRIVING EQUIPMENT MOBILIZATION**

DESCRIPTION	#		L			W			T			C.F.		LS
EQUIPMENT MOBILIZATION	LS	x			x			x			÷	1	=	LS

LUMP SUM CARRIED TO GENERAL SUMMARY**LS****ITEM 507 - PILING, MISC.: 18 INCH OPEN-ENDED STEEL PIPE PILES, DRIVEN**

DESCRIPTION	#		L			W			T			C.F.		FT
ABUTMENT PILING	14	x	70		x			x			÷	1	=	980.0
PIER PILING	10	x	75		x			x			÷	1	=	750.0

TOTAL CARRIED TO GENERAL SUMMARY =**1,730****ITEM 507 - PILING, MISC.: 18 INCH OPEN-ENDED STEEL PIPE PILES, FURNISHED**

DESCRIPTION	#		L			W			T			C.F.		FT
ABUTMENT PILING	14	x	75		x			x			÷	1	=	1050.0
PIER PILING	10	x	80		x			x			÷	1	=	800.0

TOTAL CARRIED TO GENERAL SUMMARY =**1,850****ITEM 509 - EPOXY COATED STEEL REINFORCEMENT, AS PER PLAN**

DESCRIPTION	#		L			W			T			C.F.		EACH
SEE REINFORCEMENT SCHEDULE		x			x			x			÷		=	

TOTAL CARRIED TO GENERAL SUMMARY =**47,015**



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Department of
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CALCULATION SHEET

CRS:

FAI-22-03.68

DESCRIPTION:

BRIDGE QUANTITIES

ITEM 511 - CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE													
DESCRIPTION	#		L		W		T		C.F.				CU YD
BRIDGE DECK	1	x	79.5		x	32.0		x	1.3		÷	27	= 125.6
ADDT'L DECK EDGE THICKNESS	2	x	79.5		x	4.0		x	0.333		÷	27	= 7.8
	1	x	79.5		x	0.333		x	0.694		÷	27	= 0.7
DIAPHRAGMS	2	x	32.0		x	2.25		x	1.667		÷	27	= 8.9
	4	x	1.417		x	2.25		x	3.167		÷	27	= 1.5
PIER 1 CAP	2	x	13.833		x	3.5		x	2.5	2.9	÷	27	= 9.7
	1	x	3.142		x	3.06		x	2.5		÷	27	= 0.9
PIER 2 CAP	2	x	13.833		x	3.5		x	2.5	2.9	÷	27	= 9.7
	1	x	3.142		x	3.06		x	2.5		÷	27	= 0.9
TOTAL CARRIED TO GENERAL SUMMARY =													166
ITEM 511 - CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING													
DESCRIPTION	#		L		W		T		C.F.				CU YD
REAR ABUTMENT	2	x	17.5		x	2.25		x	4.8433	5.0933	÷	27	= 14.5
	2	x	1.5		x	2.25		x	8.01		÷	27	= 2.0
	2	x	7.0		x	2.25		x	8.01	4.51	÷	27	= 7.3
FORWARD ABUTMENT	2	x	17.5		x	2.25		x	5.21	5.46	÷	27	= 15.6
	2	x	1.5		x	2.25		x	8.38		÷	27	= 2.1
	2	x	7		x	2.25		x	8.38	4.88	÷	27	= 7.7
TOTAL CARRIED TO GENERAL SUMMARY =													49
ITEM 511 - CLASS QC1 CONCRETE, FOOTING													
DESCRIPTION	#		L		W		T		C.F.				CU YD
REAR ABUTMENT FOOTING	1	x	52.0		x	3.5		x	3.0		÷	27	= 20.2
FORWARD ABUTMENT FOOTING	1	x	52.0		x	3.5		x	3.0		÷	27	= 20.2
TOTAL CARRIED TO GENERAL SUMMARY =													40



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Department of
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CALCULATION SHEET

DESCRIPTION:

BRIDGE QUANTITIES

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

DESCRIPTION	#		L		W		T		C.F.		SQ YD		
REAR ABUTMENT/DIAPHRAGM FACE	2	x	16		x	3.5933	3.0937	x		÷	9	=	11.9
	2	x	3		x	4.6767		x		÷	9	=	3.1
	2	x	7		x	4.6767	1.1767	x		÷	9	=	4.6
REAR ABUT, TOP WW/DIAPHRAGM	2	x	10		x	2.25		x		÷	9	=	5.0
REAR ABUT, BACK WW/DIAPHRAGM	2	x	10		x	0.5		x		÷	9	=	1.1
REAR ABUT, END WW	2	x	2.25		x	1.1767		x		÷	9	=	0.6
FWD ABUTMENT/DIAPHRAGM FACE	2	x	16		x	3.9633	3.4635	x		÷	9	=	13.2
	2	x	3		x	5.0467		x		÷	9	=	3.4
	2	x	7		x	5.0467	1.5467	x		÷	9	=	5.1
FWD ABUT, TOP WW/DIAPHRAGM	2	x	10		x	2.25		x		÷	9	=	5.0
FWD ABUT, BACK WW/DIAPHRAGM	2	x	10		x	0.5		x		÷	9	=	1.1
FWD ABUT, END WW	2	x	2.25		x	1.5467		x		÷	9	=	0.8
TOP OF DECK	2	x	79.5		x	0.5		x		÷	9	=	8.8
SIDE OF DECK	2	x	76		x	1.6667		x		÷	9	=	28.1
BOTTOM OF DECK	2	x	76		x	0.5		x		÷	9	=	8.4
PIER CAP ENDS	4	x	7.5		x	2.5		x		÷	9	=	8.3
	2	x	3.14		x	3.0625		x		÷	9	=	2.1
	4	x	1		x	3.5		x		÷	9	=	1.6
	-4	x	3.14		x	0.5625		x		÷	9	=	-0.8
TOTAL CARRIED TO GENERAL SUMMARY =												111	

ITEM 512 - TYPE A WATERPROOFING

DESCRIPTION	#		L			W			T			C.F.		SQ YD
REAR ABUT. / APPR. SLAB CONTACT	1	x	32		x	2.375		x			÷	9	=	8.4
FWD ABUT. / APPR. SLAB CONTACT	1	x	32		x	2.375		x			÷	9	=	8.4
TOTAL CARRIED TO GENERAL SUMMARY =														17

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

DESCRIPTION	#		L			W			T			C.F.		SQ FT
REAR ABUTMENT	1	x	34.833		x	0.667		x			÷	1	=	23.2
FORWARD ABUTMENT	1	x	34.833		x	0.667		x			÷	1	=	23.2
REAR ABUTMENT	1	x	34.833		x	1.167		x			÷	1	=	40.7
FORWARD ABUTMENT	1	x	34.833		x	1.167		x			÷	1	=	40.7
REAR APPR. SLAB AT DIAPHRAGM	2	x	0.5		x	1.667		x			÷	1	=	1.7
FWD APPR. SLAB AT DIAPHRAGM	2	x	0.5		x	1.667		x			÷	1	=	1.7
TOTAL CARRIED TO GENERAL SUMMARY =														131



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FAI-22-03.68

BRIDGE QUANTITIES

ITEM 516 - INTEGRAL ABUTMENT EXPANSION JOINT SEAL

DESCRIPTION	#		L			W			T			C.F.		FT
REAR ABUTMENT JOINT	1	x	41.167		x			x			÷	1	=	41.2
FORWARD ABUTMENT JOINT	1	x	41.167		x			x			÷	1	=	41.2
TOTAL CARRIED TO GENERAL SUMMARY =														82

ITEM 516 - STRUCTURAL JOINT OR JOINT SEALER, MISC.: EMSEAL WITH SLEEPER SLAB

DESCRIPTION	#		L			W			T			C.F.		FT
REAR SLEEPER SLAB	1	x	32		x			x			÷	1	=	32.0
FORWARD SLEEPER SLAB	1	x	32		x			x			÷	1	=	32.0
TOTAL CARRIED TO GENERAL SUMMARY =														64

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

DESCRIPTION	#		L			W			T			C.F.		FT
REAR SLEEPER SLAB / PV'MNT JOINT	1	x	32		x			x			÷	1	=	32.0
FWD SLEEPER SLAB / PV'MNT JOINT	1	x	32		x			x			÷	1	=	32.0
TOTAL CARRIED TO GENERAL SUMMARY =														64

ITEM 516 - ELASTOMERIC BEARING PAD, MISC: 8" x 1.5"

DESCRIPTION	#		L			W			T			C.F.		FT
REAR ABUTMENT	1	x	34.833		x			x			÷	1	=	34.8
FWD ABUTMENT	1	x	34.833		x			x			÷	1	=	34.8
TOTAL CARRIED TO GENERAL SUMMARY =														70

ITEM 517 - RAILING (THREE STEEL TUBE BRIDGE RAILING)

DESCRIPTION	#		L		W		T		C.F.		FT	
BRIDGE RAILING	2	x	88		x		x		÷	1	=	176.0
TOTAL CARRIED TO GENERAL SUMMARY =												176



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Department of
Transportation

CALCULATION SHEET

DESCRIPTION:

BRIDGE QUANTITIES

ITEM 518 - POROUS BACKFILL WITH GEOTEXTILE FABRIC

DESCRIPTION	#		L			W			T			C.F.		CU YD
REAR ABUTMENT BACKFILL	1	x	52		x	2		x	4.51		÷	27	=	17.4
	-1	x	52		x	0.25		x	3.5		÷	27	=	-1.7
	2	x	7		x	2		x	3.5	0.0	÷	27	=	1.8
	2	x	1.5		x	2		x	3.5		÷	27	=	0.8
	-2	x	8.5		x	2		x	1		÷	27	=	-1.3
	1	x	35		x	2		x	2		÷	27	=	5.2
FORWARD ABUTMENT BACKFILL	1	x	52		x	2		x	4.8800		÷	27	=	18.8
	-1	x	52		x	0.25		x	3.5000		÷	27	=	-1.7
	2	x	7		x	2		x	3.5	0.0	÷	27	=	1.8
	2	x	1.5		x	2		x	3.5		÷	27	=	0.8
	-2	x	8.5		x	2		x	1		÷	27	=	-1.3
	1	x	35		x	2		x	2		÷	27	=	5.2
TOTAL CARRIED TO GENERAL SUMMARY =													46	

ITEM 518 - STEEL DRIP STRIP

DESCRIPTION	#		L		W		T		C.F.		FT	
DECK EDGES	2	x	76		x		x		÷	1	=	152.0
ADDITIONAL UPPER STRIP AT POSTS	20	x	2		x		x		÷	1	=	40.0
TOTAL CARRIED TO GENERAL SUMMARY =												192

ITEM 518 - 6" PERFORATED CORRUGATED PLASTIC PIPE

DESCRIPTION	#		L			W			T			C.F.			FT
REAR ABUTMENT BACKFILL	1	x	52		x			x			÷	1	=		52.0
FORWARD ABUTMENT BACKFILL	1	x	52		x			x			÷	1	=		52.0
TOTAL CARRIED TO GENERAL SUMMARY =															104

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

DESCRIPTION	#		L		W		T		C.F.		FT	
REAR ABUTMENT OUTLET TO RCP	2	x	28		x		x		÷	1	=	56.0
FWD ABUTMENT OUTLET TO RCP	2	x	28		x		x		÷	1	=	56.0
TOTAL CARRIED TO GENERAL SUMMARY =												112



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DESCRIPTION:

BRIDGE QUANTITIES

ITEM 523 - DYNAMIC LOAD TESTING, AS PER PLAN

DESCRIPTION	#		L		W		T		C.F.		EACH
ABUTMENT PILES	14	x		x		x		÷	1	=	14.0
PIER PILES	10	x		x		x		÷	1	=	10.0
TOTAL CARRIED TO GENERAL SUMMARY =											24

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	32	x		÷	9	=	88.9
FORWARD APPROACH SLAB	1	x	25	x	32	x		÷	9	=	88.9
TOTAL CARRIED TO GENERAL SUMMARY =											178