

**TRAFFIC RESTRICTIONS PLAN**

THE CONTRACTOR IS REQUIRED TO SUBMIT A PLAN OUTLINING ALL ANTICIPATED TRAFFIC RESTRICTIONS PRIOR TO THE START OF EACH SEASON. THIS INCLUDES LANE CLOSURES, TRAFFIC SHIFTS, SHORT TERM CLOSURES FOR BEAM REMOVAL OR ERECTION, ETC.

**NOTIFICATION OF TRAFFIC RESTRICTIONS**

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

**NOTIFICATION TIME TABLE**

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURE	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS AND < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 CALENDAR DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO CLOSURE

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

**ITEM 642, WORK ZONE SPEED ZONES (WZSZs)**

THE FOLLOWING WORK ZONE SPEED ZONE (WZSZ) SPEED LIMIT REVISIONS HAVE BEEN APPROVED FOR USE ON THIS PROJECT WHEN WORK ZONE CONDITIONS AND FACTORS ARE MET AS DESCRIBED BELOW:

WZSZ REVISIONS NUMBER(S)	COUNTY-ROUTE-SECTION	DIRECTION
WZ-20487	LOR-90-17.33 TO LOR-90-17.84 (STA. 899+00 TO STA. 925+93)	EB & WB
WZ-20488	LOR-90-17.84 TO LOR-90-18.41 (STA. 925+93 TO STA. 956+20)	EB & WB

WZSZ LOCATIONS SHALL HAVE AN ORIGINAL (PRE-CONSTRUCTION) POSTED SPEED LIMIT OF 55 MPH OR GREATER, A QUALIFYING WORK ZONE CONDITION OF AT LEAST 0.5 MILE IN LENGTH, AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS, AND A WORK ZONE CONDITION IN PLACE THAT REDUCES THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS (I.E., LANE CLOSURE, LANE SHIFT, Crossover, CONTRAFLOW AND/OR SHOULDER CLOSURE). THE LENGTH OF THE WORK ZONE CONDITION IS MEASURED FROM THE BEGINNING OF THE TAPER FOR THE SUBJECT WORK ZONE CONDITION IMPACTING THE TRAVEL LANES AND/OR SHOULDER TO THE END OF THE DOWNSTREAM TAPER, WHERE DRIVERS ARE RETURNED TO TYPICAL ALIGNMENT. AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS IS REQUIRED TO BALANCE THE ADDITIONAL EXPOSURE CREATED BY INSTALLING AND REMOVING WZSZ SIGNING WITH THE TIME NEEDED TO COMPLETE THE WORK.

IF THE WORK ZONE MEETS THESE MINIMUM CRITERIA, IT SHALL BE ANALYZED FURTHER USING TABLE 1 BELOW TO DETERMINE IF AND WHEN IT QUALIFIES FOR A SPEED LIMIT REDUCTION. DEPENDING ON THE ORIGINAL POSTED SPEED LIMIT, THE TYPE OF TEMPORARY TRAFFIC CONTROL USED, AND WHETHER OR NOT WORKERS ARE PRESENT, A WARRANTED WZSZ WILL VARY IN THE APPROVED SPEED LIMIT TO BE POSTED OVER TIME.

C&MS ITEM 614, PARAGRAPH 614.02(B), INDICATES THAT TWO DIRECTIONS OF A DIVIDED HIGHWAY ARE CONSIDERED SEPARATE HIGHWAY SECTIONS. THEREFORE, IF THE WORK ON A MULTI-LANE DIVIDED HIGHWAY IS LIMITED TO ONLY ONE DIRECTION, A SPEED LIMIT REDUCTION IN THE DIRECTION OF THE WORK DOES NOT AUTOMATICALLY CONSTITUTE A SPEED LIMIT REDUCTION IN THE OPPOSITE DIRECTION. EACH DIRECTION SHALL BE ANALYZED INDEPENDENTLY FROM EACH OTHER.

ALL WZSZS FLUCTUATE BETWEEN TWO APPROVED REDUCED SPEED LIMITS OR BETWEEN AN APPROVED REDUCED SPEED LIMIT AND THE ORIGINAL POSTED SPEED LIMIT. ONLY ONE OF TWO SIGNING STRATEGIES SHALL BE USED TO IMPLEMENT A WZSZ.

WZSZS USING DSL SIGN ASSEMBLIES SHALL BE IN ACCORDANCE WITH THIS NOTE, APPROVED LIST, SUPPLEMENTAL SPECIFICATIONS (SS) 808 AND 908, AND TRAFFIC SCD MT-104.10.

ONLY ONE WARRANTED SPEED LIMIT APPLIES AT ANY ONE TIME; SPEED LIMIT REDUCTIONS ARE NOT CUMULATIVE. WZSZS SHALL NOT BE USED FOR MOVING/MOBILE ACTIVITIES, AS DEFINED IN OMUTCD PART 6.

WHEN LOOKING UP THE WARRANTED WORK ZONE SPEED LIMITS, ALWAYS USE THE ORIGINAL, PRECONSTRUCTION, POSTED SPEED LIMIT. DO NOT USE A PRIOR OR CURRENT WORK ZONE SPEED LIMIT AS A LOOK UP VALUE IN THE TABLE. POSITIVE PROTECTION IS GENERALLY REGARDED AS PORTABLE BARRIER OR OTHER RIGID BARRIER IN USE ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WITHOUT POSITIVE PROTECTION IS GENERALLY REGARDED AS USING DRUMS, CONES, SHADOW VEHICLE, ETC., ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WORKERS ARE

**ITEM 642, WORK ZONE SPEED ZONES (WZSZs) (CONT.)**

CONSIDERED AS BEING PRESENT WHEN ON-SITE, WORKING WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WHEN THE WORK ZONE CONDITION REDUCING THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS IS REMOVED, THE SPEED LIMIT DISPLAYED SHALL RETURN TO THE ORIGINAL POSTED SPEED LIMIT.

TABLE 1: WARRANTED WORK ZONE SPEED LIMITS (MPH) FOR WORK ZONES ON HIGH-SPEED (55 MPH OR GREATER) MULTI-LANE HIGHWAYS

ORIGINAL POSTED SPEED LIMIT	WITH POSITIVE PROTECTION		WITHOUT POSITIVE PROTECTION	
	WORKERS PRESENT	WORKERS NOT PRESENT	WORKERS PRESENT	WORKERS NOT PRESENT
70	60	65	55	65
65	55	60	50	60
60	55	60	50	60
55	50	55	45	55

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 808, DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY 36 SIGN MNTH ASSUMING 4 DSL SIGN ASSEMBLIES FOR 9 MONTHS

**ITEM 622, PORTABLE BARRIER PLACEMENT**

DURING THE PLACEMENT OF THE PORTABLE BARRIER, TRAFFIC WILL BE PROHIBITED FROM OCCUPYING THE TRAVEL LANE ADJACENT TO THE BARRIER. THE BARRIER WILL BE PLACED AT NIGHT PER THE WORK HOUR RESTRICTION NOTE AND IN ACCORDANCE WITH THE PERMITTED LANE CLOSURE MAP. THE CLOSURE OF THE ADJACENT LANE WILL BE PER THE STANDARD DRAWING MT-95.30.

THE CONTRACTOR WILL SUBMIT PLAN TO THE ENGINEER FOR APPROVAL SEVEN (7) DAYS IN ADVANCE OF THE PLANNED LANE CLOSURE. WORK WILL NOT BEGIN UNTIL APPROVAL OF THE PLANS HAS BEEN GRANTED.

ALL COSTS INVOLVED IN PLACING THE PORTABLE CONCRETE BARRIER WILL BE INCLUDED IN THE CONTRACT PRICE BID FOR ITEM 622 PORTABLE BARRIER.

**ITEM 253, PAVEMENT REPAIR**

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED FOR ITEM 253, PAVEMENT REPAIR. THIS IS A CONTINGENCY ITEM AND SHALL ONLY BE USED AS DIRECTED BY THE ENGINEER.

THIS CONTINGENCY QUANTITY ASSUMES FULL DEPTH PAVEMENT REPAIR OF 20% OF THE PAVEMENT PLANING AREA. THE QUANTITY ALSO ASSUMES 90% OF THE VOLUME BEING FOR TRANSVERSE REPAIRS AND 10% OF THE VOLUME BEING FOR LONGITUDINAL REPAIRS.

ITEM 253, PAVEMENT REPAIR 6104 CY

**ITEM 254, PATCHING PLANED SURFACE**

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED FOR ITEM 254, PATCHING OF PLANED SURFACE. THIS IS A CONTINGENCY ITEM AND SHALL ONLY BE USED AS DIRECTED BY THE ENGINEER.

ITEM 254, PATCHING PLANED SURFACE 3488 SY

**ITEM 642, TRAFFIC PAINT, AS PER PLAN**

THIS WORK CONSISTS OF FURNISHING AND APPLYING WET REFLECTIVE (WR) OPTICS (BEADS OR ELEMENTS), GLASS BEADS, AND TRAFFIC PAINT ACCORDING TO 640, 740, AND THE ADDITIONAL REQUIREMENTS SPECIFIED BELOW.

FURNISH MATERIALS CONFORMING TO:

TRAFFIC PAINT.....	740.02
GLASS BEADS.....	740.09

FURNISH ONE OF THE FOLLOWING WET REFLECTIVE OPTICS: 3M CONNECTED ROADS ALL WEATHER ELEMENTS SERIES 50/51, POTTERS INDUSTRIES VISI-ULTRA, SWARCO DURALUX, OR APPROVED EQUAL.

IN ADDITION TO THE REQUIREMENTS OF 642.03, FURNISH EQUIPMENT CAPABLE OF APPLYING WR OPTICS AT THE TIME OF LINE PLACEMENT.

THE PAVEMENT SURFACE SHALL BE FREE OF LOOSE MATERIAL AND COMPLETELY DRY PRIOR TO THE APPLICATION OF THE PAVEMENT MARKINGS.

PLACE TRAFFIC PAINT AT A THICKNESS OF 20 MILS (0.51 MM). DROP WR OPTICS FROM THE FORWARD-MOST BEAD APPLICATOR GUN AT A MINIMUM RATE OF 5 POUNDS PER 100 SQUARE FEET (2.4 KILOGRAM PER 10 M2). DROP GLASS BEADS AT A MINIMUM RATE OF 8 POUNDS PER 100 SQUARE FEET (3.9 KILOGRAM PER 10 M2) FROM THE REAR BEAD APPLICATOR GUN.

THE DEPARTMENT WILL MEASURE PAVEMENT MARKINGS COMPLETE IN PLACE IN THE UNITS DESIGNATED. THE DEPARTMENT WILL MEASURE LINE QUANTITIES AS THE LENGTH OF THE COMPLETED MARKING, INCLUDING GAPS, INTERSECTIONS, AND OTHER SECTIONS OF PAVEMENT NOT NORMALLY MARKED.

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT CONTRACT PRICES, OR PRICES ADJUSTED ACCORDING TO 641.11, MEASURED ACCORDING TO 641.12, WITH THE PROVISIONS SPECIFIED IN 641.13, AND AS FOLLOWS:

ITEM	UNIT	DESCRIPTION
642	MILE	EDGE LINE, 6 INCH, TYPE 1, AS PER PLAN
642	FOOT	CHANNELIZING LINE, 8 INCH, TYPE 1, AS PER PLAN

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SHEET NUM.										PART.			ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE	CALCULATED	HB	CHECKED	SNP
7	8	11	52	54	56	57	104	109	110					EXT	TOTAL			NO.				
ROADWAY																						
LS				11,982									201	11000	LS		CLEARING AND GRUBBING					
			12										202	23001	11,982	SY	PAVEMENT REMOVED, AS PER PLAN	7				
			1,225										202	35100	12	FT	PIPE REMOVED, 24" AND UNDER					
			2										202	38000	1,225	FT	GUARDRAIL REMOVED					
	2,370												202	58100	2	EACH	CATCH BASIN REMOVED					
							6,342						203	10000	8,712	CY	EXCAVATION					
							4,363						203	20000	4,363	CY	EMBANKMENT					
				26,163									204	10000	26,163	SY	SUBGRADE COMPACTION					
13													204	45000	13	HOUR	PROOF ROLLING					
			764										606	15050	764	FT	GUARDRAIL, TYPE MGS					
125													606	16001	125	FT	GUARDRAIL REBUILT, AS PER PLAN	7				
			4										606	35000	4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 1					
			207										607	35001	207	FT	FENCE REMOVED AND REBUILT, AS PER PLAN	7				
EROSION CONTROL																						
					69								601	20000	69	SY	CRUSHED AGGREGATE SLOPE PROTECTION					
2					27								601	21050	27	SY	TIED CONCRETE BLOCK MAT, TYPE 1					
1,237					493								659	00100	2	EACH	SOIL ANALYSIS TEST					
							11,146						659	00300	1,730	CY	TOPSOIL					
													659	10000	11,146	SY	SEEDING AND MULCHING					
557													659	14000	557	SY	REPAIR SEEDING AND MULCHING					
557													659	15000	557	SY	INTER-SEEDING					
1.5													659	20000	1.5	TON	COMMERCIAL FERTILIZER					
0.26													659	31000	0.26	ACRE	LIME					
62													659	35000	62	MGAL	WATER					
2,786					4,439								659	40000	2,786	MSF	MOWING					
													670	00500	4,439	SY	SLOPE EROSION PROTECTION					
						LS							832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN					
						LS							832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS					
						LS							832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE					
						74,000							832	30000	74,000	EACH	EROSION CONTROL					
DRAINAGE																						
				14,229									605	11100	14,229	FT	6" SHALLOW PIPE UNDERDRAINS					
				1,868									605	13300	1,868	FT	6" UNCLASSIFIED PIPE UNDERDRAINS					
				13,476									605	14000	13,476	FT	6" BASE PIPE UNDERDRAINS					
				537									611	00510	537	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS					
				33									611	04600	33	FT	12" CONDUIT, TYPE C					
					8								611	06100	8	FT	15" CONDUIT, TYPE C					
					2								611	98410	2	EACH	CATCH BASIN, NO. 8					
					1								611	99574	1	EACH	MANHOLE, NO. 3					
					17								611	99710	17	EACH	PRECAST REINFORCED CONCRETE OUTLET					
PAVEMENT																						
			6,104	13,865									252	01500	13,865	FT	FULL DEPTH PAVEMENT SAWING					
			3,488	17,439									253	02000	6,104	CY	PAVEMENT REPAIR					
													254	01000	17,439	SY	PAVEMENT PLANING, ASPHALT CONCRETE					
													254	01600	3,488	SY	PATCHING PLANED SURFACE					
				7,147									302	46000	7,147	CY	ASPHALT CONCRETE BASE, PG64-22					
				4,361									304	20000	4,361	CY	AGGREGATE BASE					
				6,464									407	20000	6,464	GAL	NON-TRACKING TACK COAT					
				1,683									442	10000	1,683	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)					
				1,963									442	10100	1,963	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)					
				490									617	10100	490	CY	COMPACTED AGGREGATE					
				14,410									618	40100	14,410	FT	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)					
ELECTRICAL																						
			2										625	31510	2	EACH	PULL BOX REMOVED					
TRAFFIC CONTROL																						
									59				621	00100	59	EACH	RPM					
									50				621	54000	50	EACH	RAISED PAVEMENT MARKER REMOVED					
								54					630	02100	54	FT	GROUND MOUNTED SUPPORT, NO. 2 POST					
								63					630	03100	63	FT	GROUND MOUNTED SUPPORT, NO. 3 POST					
								36					630	06500	36	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W6X9					

**GENERAL SUMMARY**

**LOR-90-17.85**

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SHEET NUM.										PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
						130									STRUCTURE OVER 20 FOOT SPAN (LOR-90-1785 R, 4704925)	
						LS					202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	126
						134					202	22900	134	SY	APPROACH SLAB REMOVED	
						821					202	23500	821	SY	WEARING COURSE REMOVED	
						LS					503	11100	LS		COFFERDAMS AND EXCAVATION BRACING (TEMPORARY SHORING)	
						LS					503	21300	LS		UNCLASSIFIED EXCAVATION	
						847					504	11101	847	SF	STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN (TEMPORARY WALL 3)	127
						918					504	11101	918	SF	STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN (TEMPORARY WALL 4)	127
						LS					505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION	
						1,600					507	00200	1,600	FT	STEEL PILES HP12X53, FURNISHED	
						1,440					507	00250	1,440	FT	STEEL PILES HP12X53, DRIVEN	
						142,171					509	10000	142,171	LB	EPOXY COATED REINFORCING STEEL	
						369					511	34447	369	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK, AS PER PLAN	127
						61					511	34450	61	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)	
						104					511	41012	104	CY	CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS	
						120					511	43512	120	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING	
						904					512	10100	904	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
						4					512	33000	4	SY	TYPE 2 WATERPROOFING	
						253,340					513	10281	253,340	LB	STRUCTURAL STEEL MEMBERS, LEVEL 4, AS PER PLAN	127
						8,004					513	20000	8,004	EACH	WELDED STUD SHEAR CONNECTORS	
						2					513	95030	2	EACH	STRUCTURAL STEEL, MISC.: TEMPORARY BEAM END RETROFIT	127
						111					516	13200	111	SF	1/2" PREFORMED EXPANSION JOINT FILLER	
						70					516	13600	70	SF	1" PREFORMED EXPANSION JOINT FILLER	
						62					516	13900	62	SF	2" PREFORMED EXPANSION JOINT FILLER	
						193					516	14014	193	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL	
						16					516	44100	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (15" x 14" x 2.499" PAD WITH 17" x 15" x 2.000" LOAD PLATE)	
						16					516	44201	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (13" x 12" x 3.848" PAD WITH 17" x 13" x 1.500" TOP LOAD PLATE, 14" x 13" x 1.500" BOTTOM LOAD PLATE AND HP SECTION)	178
						129					518	21200	129	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
						173					518	40000	173	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
						70					518	40011	70	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN	144
						120					524	94704	120	FT	DRILLED SHAFTS, 36" DIAMETER, INTO BEDROCK	
						150					524	94802	150	FT	DRILLED SHAFTS, 42" DIAMETER, ABOVE BEDROCK	
						75					524	94803	75	FT	DRILLED SHAFTS, 42" DIAMETER, ABOVE BEDROCK, AS PER PLAN	127
						343					526	25010	343	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15")	
						139					526	90010	139	FT	TYPE A INSTALLATION	
						1,215					601	12001	1,215	SY	RIPRAP, WITH GROUT, AS PER PLAN	127
						LS					SPECIAL	69091000	LS		AS-BUILT CONSTRUCTION PLANS	126
						58					846	00110	58	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	

**GENERAL SUMMARY**

**LOR-90-17.85**

CALCULATED  
HB  
CHECKED  
SNP

MADE BY: GJZ  
CHECKED BY: RSB

DATE: 12/11/2019  
DATE: 12/12/2019

ESTIMATED QUANTITIES

STRUCTURE FILE NUMBER: 4704895 (L) / 4704925 (R)

ITEM	EXTENSION	LOR-90-1785L	LOR-90-1785R	UNIT	DESCRIPTION	LOR-90-1785L (WESTBOUND)				LOR-90-1785R (EASTBOUND)				REFERENCE SHEET NUMBER
		(WESTBOUND)	(EASTBOUND)			ABUTMENTS	PIERS	SUPER STRUCTURE	GENERAL	ABUTMENTS	PIERS	SUPER STRUCTURE	GENERAL	
		TOTAL	TOTAL											
202	11203	LS	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					LS			LS	126/196
202	22900	134	134	SY	APPROACH SLAB REMOVED					134			134	
202	23500	773	821	SY	WEARING COURSE REMOVED					773			821	
503	11100	LS	LS		COFFERDAMS AND EXCAVATION BRACING (TEMPORARY SHORING)					LS			LS	
503	21300	LS	LS		UNCLASSIFIED EXCAVATION					LS			LS	
504	11101	812		SF	STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN (TEMPORARY WALL 1)					812				127/196
504	11101	877		SF	STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN (TEMPORARY WALL 2)					877				127/196
504	11101		847	SF	STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN (TEMPORARY WALL 3)								847	127/196
504	11101		918	SF	STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN (TEMPORARY WALL 4)								918	127/196
505	11100	LS	LS		PILE DRIVING EQUIPMENT MOBILIZATION					LS			LS	
507	00200	1500	1600	FT	STEEL PILES HP12x53, FURNISHED	1500						1600		
507	00250	1350	1440	FT	STEEL PILES HP12x53, DRIVEN	1350						1440		
509	10000	138107	142171	LB	EPOXY COATED REINFORCING STEEL	14561	25543	96619	1384	15152	24457	101178	1384	
511	34447	349	369	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK, AS PER PLAN			349				369		127/196
511	34450	58	61	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)			58				61		
511	41012	90	104	CY	CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS		90				104			
511	43512	114	120	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING	114				120				
512	10100	773	904	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	118	304	351		122	368	369	45	
512	33000	4	4	SY	TYPE 2 WATERPROOFING	4				4				
513	10281	240810	253340	LB	STRUCTURAL STEEL MEMBERS, LEVEL 4, AS PER PLAN			240810				253340		127/196
513	20000	8334	8004	EACH	WELDED STUD SHEAR CONNECTORS			8334				8004		
513	95030	2	2	EACH	STRUCTURAL STEEL, MISC.: TEMPORARY BEAM END RETROFIT			2				2		129/196
516	13200	137	111	SF	1/2" PREFORMED EXPANSION JOINT FILLER	137				111				
516	13600	124	70	SF	1" PREFORMED EXPANSION JOINT FILLER			124		37		17	16	
516	13900	58	62	SF	2" PREFORMED EXPANSION JOINT FILLER	58				62				
516	14014	165	193	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL	165				193				
516	44100	16	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE)		16				16			
516	44201	16		EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN	16								178/196
516	44201		16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN					16				178/196
518	21200	121	129	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	121				129				
518	40000	167	173	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	167				173				
518	40011	63	70	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN	63				70				144/196
524	94704	40	120	FT	DRILLED SHAFTS, 36" DIAMETER, INTO BEDROCK		40				120			
524	94802	176	150	FT	DRILLED SHAFTS, 42" DIAMETER, ABOVE BEDROCK		176				150			
524	94803	59	75	FT	DRILLED SHAFTS, 42" DIAMETER, ABOVE BEDROCK, AS PER PLAN		59				75			127/196
526	25010	343	343	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15")					343			343	
526	90010	130	139	FT	TYPE A INSTALLATION					130			139	
601	12001	1105	1215	SY	RIPRAP, WITH GROUT, AS PER PLAN					1105			1215	127/196
SPECIAL	69091000	LS	LS		AS-BUILT CONSTRUCTION PLANS					LS			LS	126/196
846	00110	54	58	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM					54			58	

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DESIGNED BY: GJZ  
CHECKED BY: ZTW  
DRAWN BY: GJZ  
REVISED BY:  
REVIEWED BY: NFF  
DATE: 5/16/19  
STRUCTURE FILE NUMBER: 4704895/4704925

ESTIMATED QUANTITIES  
BRIDGE NO. LOR-90-1785 L/R  
IR 90 OVER NORFOLK SOUTHERN RAILROAD

LOR-90-17.85  
PID No. 90942