


ESTIMATED QUANTITIES							CALC. BY: J.L.W.		DATE: 11/22/96	
							CHECKED BY: S.A.M.		DATE: 11/26/96	
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION			ABUT.	SUPER.	GEN.	
202	11000	LUMP		STRUCTURE REMOVED			LUMP			
448	46020	9.6	CU. METER	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22				9.6		
448	47020	5.3	CU. METER	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22				5.3		
503	11100	LUMP		COFFERDAMS, CRIBS AND SHEETING					LUMP	
503	21300	LUMP		UNCLASSIFIED EXCAVATION			LUMP			
511	43500	62.3	CU. METER	CLASS C CONCRETE, ABUTMENT INCLUDING FOOTING			62.3			
512	55910	LUMP		TYPE 3 WATERPROOFING				LUMP		
SPECIAL	51267500	14	SQ. METER	SEALING OF CONCRETE SURFACES *				14		
SPECIAL	51267502	37	SQ. METER	SEALING OF CONCRETE SURFACES (EPOXY)			37			
515	53900	11	EACH	PRESTRESSED CONCRETE BOX BEAM (12.20-15.24 METER) (B430-1220) *				11		
516	13600	13.0	SQ. METER	25 MM PREFORMED EXPANSION JOINT FILLER			13.0			
SPECIAL	51631300	27.2	METER	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM			27.2			
516	41100	22	EACH	3 MM PREFORMED BEARING PAD, 711.21			22			
516	43100	44	EACH	ELASTOMERIC BEARING PADS WITH INTERNAL LAMINATES ONLY (NEOPRENE)			44			
				160 MM x 160 MM x 25 MM (50 DUROMETER)						
517	72300	26.670	METER	RAILING (DEEP BEAM RAIL WITH STEEL TUBULAR BACKUP, AND TYPE 2 STEEL POSTS AND ANCHOR BOLTS)				26.670		
518	21200	25.1	CU. METER	POROUS BACKFILL WITH FILTER FABRIC			25.1			
SPECIAL	51822300	24.6	METER	STEEL DRIP STRIP				24.6		
518	40000	36.0	METER	150MM PERFORATED CORRUGATED PLASTIC PIPE			36.0			
518	40010	7.6	METER	150MM NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS			7.6			
524	94702	17.0	METER	DRILLED SHAFTS, 915 MM DIAMETER, ABOVE BEDROCK			17.0			
524	94704	3.0	METER	DRILLED SHAFTS, 915 MM DIAMETER, INTO BEDROCK			3.0			

\* SEE PROPOSAL NOTE

FOR REINFORCED CONCRETE APPROACH SLAB QUANTITIES, SEE ROADWAY PLANS, SHEET 7 OF 25.



PLANS PREPARED BY:  
EDG  
ENVIRONMENTAL  
DESIGN GROUP

DESIGNED: J.L.W.  
CHECKED: S.A.M.

REVIEWED: J.L.W.  
RCB

DATE: 3/20/97  
STRUCTURE FILE NUMBER: 6002137

GENERAL NOTES AND ESTIMATED QUANTITIES

MUS-60-43.500

3 / 9

16  
25

GENERAL NOTES:

DESIGN SPECIFICATIONS:  
THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1996, SPECIFICATIONS AND THE O.D.O.T BRIDGE DESIGN MANUAL.

REFERENCE: SHALL BE MADE TO STANDARD DRAWINGS:  
AS-1-81M DATED 10/25/94  
DBR-2-73M DATED 8/18/95  
DS-1-94M DATED 12/15/94  
FSBD-1-93M DATED 12/19/94

DESIGN DATA:  
DESIGN LOADING - MS18 AND THE ALTERNATE MILITARY LOADING  
CONCRETE CLASS C - COMPRESSIVE STRENGTH 27.5 MPa (SUBSTRUCTURE)  
REINFORCING STEEL - ASTM A615M, A616M OR A617M GRADE 400, MINIMUM YIELD STRENGTH 400 MPa.  
CONCRETE FOR PRESTRESSED BEAMS - COMPRESSIVE STRENGTH 38.0 MPa  
UNIT STRESSES - 15.2 MPa COMPRESSION 3.1 MPa TENSION  
PRESTRESSING STRAND - ASTM A416M  
f's = 1860 MPa  
INITIAL STRESS = 0.75 f's (LOW RELAXATION STRANDS)  
MILD REINFORCING STEEL FOR THE PRESTRESSED CONCRETE BEAMS GRADE 400, MINIMUM YIELD STRENGTH 400 MPa.

DECK PROTECTION METHOD:  
WATERPROOFING AND ASPHALT CONCRETE OVERLAY.  
STEEL DRIP STRIP.  
EPOXY COATED REINFORCING STEEL.

REMOVAL OF EXISTING STRUCTURE: WHEN NO LONGER NEEDED TO MAINTAIN TRAFFIC THE EXISTING STRUCTURE SHALL BE REMOVED UPON RECEIVING PERMISSION FROM THE ENGINEER.

BEARING PAD SHIMS: 3 mm THICK PREFORMED BEARING PAD SHIMS, PLAN AREA 160 mm BY 160 mm SHALL BE PLACED UNDER THE ELASTOMERIC BEARING PADS WHERE REQUIRED FOR PROPER BEARING. THE AMOUNT SUPPLIED IS SUFFICIENT FOR 2 SHIMS PER BEAM. PAYMENT WILL BE MADE AT THE CONTRACT BID PRICE FOR ITEM 516-3 mm PREFORMED BEARING PADS. ANY UNUSED SHIMS SHALL BECOME THE PROPERTY OF THE STATE.

UTILITY LINES: ALL EXPENSE INVOLVED IN RELOCATING THE AFFECTED UTILITY LINES SHALL BE BORNE BY THE UTILITY. THE CONTRACTOR AND UTILITY ARE TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

MECHANICAL CONNECTORS: AN APPROVED TYPE OF NON-PROTRUDING MECHANICAL CONNECTOR FOR REINFORCING BARS SHALL BE FURNISHED. INSTALLATION OF THE CONNECTORS SHALL CONFORM WITH MANUFACTURER'S RECOMMENDED PROCEDURES. IF A DOWEL BAR SPLICE TYPE OF CONNECTOR IS FURNISHED, THE MINIMUM DOWEL BAR LENGTH TO BE PROVIDED WITH CONNECTOR SHALL BE 1295 mm. CONNECTORS AND DOWEL BARS SHALL BE EPOXY COATED. COATING FOR BOTH CONNECTORS AND BARS SHALL CONFORM TO THE SAME SPECIFICATION. COATINGS WHICH HAVE BEEN DAMAGED OR WHICH OTHERWISE DO NOT MEET SPECIFICATION WITH RESPECT TO COLOR, CONTINUITY AND UNIFORMITY MAY BE REPAIRED AS DIRECTED BY THE ENGINEER OR THEY SHALL BE REPLACED WITH MATERIAL WHICH MEETS THE SPECIFICATIONS. THE CONNECTORS SHALL CONFORM WITH ITEM 509 AND BE INCLUDED IN THE BID PRICE PER CUBIC METER OF ITEM 511.

UNCLASSIFIED EXCAVATION: FOR UNCLASSIFIED EXCAVATION LIMITS SEE STREAM CROSS SECTION SHEETS 12 AND 13 OF 25.