

MICROFILMED  
 OCT 21 1985

FHWA REGION	STATE	PROJECT
5	OHIO	

2  
16

LAKE COUNTY  
 LAK-84-06.33

GENERAL NOTES

REFERENCE SHALL BE MADE TO STANDARD DRAWINGS AS-1-81 (11-27-81), DBR-2-73 (4-10-73), PSBD-1-81 (9-18-81) SHEET 1-4, TS-EXJ-3-82 (11-15-82) AND TO SUPPLEMENTAL SPECIFICATIONS 824 DATED 10-8-82, 836 DATED 3-12-75, 849 DATED 10-19-81, 853 DATED 6-26-78 AND 956 DATED 6-26-78.

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1977, INCLUDING THE 1978, 1979, 1980, 1981, AND 1982 INTERIM SPECIFICATIONS AND THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

DESIGN DATA:

DESIGN LOADING-HS 20-44 AND THE ALTERNATE MILITARY LOADING.

CONCRETE CLASS S- UNIT STRESS 1500 P.S.I. (SUPERSTRUCTURE).

CONCRETE CLASS C- UNIT STRESS 1333 P.S.I. (SUBSTRUCTURE).

REINFORCING STEEL, ASTM A615, A616 OR A617.  
 GRADE 60 - UNIT STRESS 24,000 P.S.I.

STRUCTURAL STEEL ASTM A36 - UNIT STRESS 20,000 P.S.I.

CONCRETE FOR PRESTRESSED BEAMS-  
 UNIT STRESS 2200 P.S.I. COMPRESSION  
 444 P.S.I. TENSION

PRESTRESSING STRAND ASTM A416  
 F'S = 270,000 P.S.I.

INITIAL STRESS - 0.70 F'S

DECK PROTECTION METHOD: MEMBRANE WATERPROOFING AND ASPHALT CONCRETE WEARING SURFACE, STEEL DRIP STRIP.

FOUNDATION BEARING PRESSURE: EAST ABUTMENT FOOTINGS ARE DESIGNED FOR A MAXIMUM BEARING PRESSURE OF 5.0 TONS PER SQUARE FOOT.

FOOTINGS SHALL BE PLACED IN BEDROCK AT THE ELEVATION SHOWN.

EXISTING STRUCTURE VERIFICATION: DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND/OR FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05 AND 105.02.

CONTRACT BID PRICES SHALL BE BASED UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE BY THE CONTRACTOR. HOWEVER, ALL PROJECT WORK SHALL BE BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD.

REPLACEMENT OF EXISTING REINFORCING STEEL: ANY EXISTING REINFORCING BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND WHICH ARE MADE UNUSABLE BY THE CONTRACTOR'S CONCRETE REMOVAL OPERATIONS SHALL BE REPLACED WITH NEW STEEL AT HIS COST. ANY EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION SHALL BE REPLACED WITH NEW STEEL. AN ALLOWANCE OF 1000 POUNDS IS INCLUDED IN ITEM 509 FOR THIS PURPOSE.

DOWELS SHALL BE INSTALLED AS PER SUPPLEMENTAL SPECIFICATIONS 853. PAYMENT SHALL BE UNDER ITEM 510.

PARTIAL REMOVAL OF EXISTING STRUCTURE:

EXISTING CONCRETE BEAMS, DECK, PARAPETS AND SIDEWALKS SHALL BE REMOVED AND REPLACED WITH PRESTRESSED CONCRETE BOX BEAMS WITH AN ATTACHED RAILING.

ABUTMENT BACKWALLS AND THE TOP PART OF WINGWALLS SHALL BE REPLACED ACCORDING TO PLANS.

PIER BEAM SEATS AND TOP OF PIERS TO BE REBUILT. RENOVATION OF THE CUT-WATERS AND SOME SURFACE REPAIR TO THE PIER STEMS AS SHOWN ON THE PLANS.

ITEM SPECIAL- SEALING OF CONCRETE SURFACES: SPECIFIED CONCRETE SURFACES SHALL BE SEALED USING EITHER SILANE OR AN EPOXY SEALER. SEE THE PROPOSAL FOR AREAS TO BE SEALED, SURFACE PREPARATION REQUIREMENTS, APPLICATION RATES, MATERIAL REQUIREMENTS, AND APPLICATION PROCEDURES.

AREAS TO BE SEALED ARE: SIDEWALKS, BACKWALLS, CURBS, PIER CAPS, BOX BEAMS (TOTAL EXTERIOR PERIMETER) AND WINGWALLS BOX BEAMS AT THE CONTRACTOR'S OPTION MAY BE SEALED BY THE MANUFACTURER.

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER	ABUT.	PIERS	GEN'L			
202	LUMP	LUMP	PORTIONS OF STRUCTURES REMOVED	LUMP	LUMP	LUMP				
403	37	C.Y.	ASPHALT CONCRETE (AC-20)	37						
404	25	C.Y.	ASPHALT CONCRETE (AC-20)	25						
503	LUMP	LUMP	COFFERDAMS, CRIBS AND SHEETING			LUMP				
503	334	C.Y.	UNCLASSIFIED EXCAVATION		334					
509	22,071	LB.	REINFORCING STEEL, GRADE 60	461	17,996	2,614	1,000			
510	252	EA.	DOWEL HOLES		124	128				
511	21	C.Y.	CLASS C CONCRETE, FOOTINGS		21					
511	200	C.Y.	CLASS C CONCRETE, ABUTMENT ABOVE FOOTINGS		200					
511	63	C.Y.	CLASS C CONCRETE, PIERS			63				
511	54	C.Y.	CLASS S CONCRETE, SUPERSTRUCTURE	54						
513	2200	LB.	STRUCTURAL STEEL, A36 GALVANIZED PER C.M.S. SECT. 711.02 AISC CERTIFICATION NOT REQUIRED			2200				
515	30	EA.	PRESTRESSED CONCRETE BRIDGE MEMBERS, B33-48	30						
516	15	S.F.	1" PREFORMED EXPANSION JOINT FILLER		15					
516	81.71	L.F.	ELASTOMERIC COMPRESSION SEALS FOR STRUCTURAL STEEL JOINTS, 2 1/4" WIDTH		81.71					
516	120	EA.	1 3/8" x 8 3/4" x 18" ELASTOMERIC BEARING PADS		40	80				
516	60	EA.	1/8" x 8 3/4" x 18" PREFORMED BEARING PADS, 711.21		20	40				
517	387.76	L.F.	RAILING, DEEP BEAM RAIL W/HANDRAIL AND STEEL TUBULAR BACKUP AND STEEL POSTS AND BOLTS.	387.76						
518	94	C.Y.	POROUS BACKFILL		94					
518	44	L.F.	6" PERFORATED, HELICAL CORRUGATED STEEL PIPE, 707.01		44					
518	22	L.F.	6" NON-PERFORATED, HELICAL CORRUGATED STEEL PIPE, INCLUDING SPECIALS, 707.01		22					
520	108	S.F.	PNEUMATICALLY PLACED MORTAR			108				
SPECIAL	750	S.Y.	SEALING OF CONCRETE SURFACES (SEE PROPOSAL NOTE)				750			
824	3,331	LB.	EPOXY COATED REINFORCING STEEL, GRADE 60	3,331						
SPECIAL	711	S.Y.	MEMBRANE WATERPROOFING (SEE PROPOSAL NOTE)				711			
SPECIAL	168	S.F.	STEEL DRIP STRIP		168					

COLPETZER WOODS CONSULTANTS, INC.						3 / 12
MENTOR, OHIO						
<b>GENERAL NOTES &amp; ESTIMATED QUANTITIES</b>						
BRIDGE NO. LAK-84-0633 S.R. 84 OVER THE CHAGRIN RIVER						
LAKE COUNTY						S.R. 84
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HM	PL	PL	MK	JL	11/82	

BRUNING 44-132 30945-1