

CALC: JBJ 3-5-86
 CHECKED: EJA 3-5-86

LAKE COUNTY
 LAK-283-4.72

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 18

PLAN NO.
 BR-20-86

*50% FEDERAL PARTICIPATION

ITEM SPECIAL - BITUMEN IMPREGNATED FOAM JOINT SEAL (BIFJS)

I. DESCRIPTION: THIS WORK SHALL CONSIST OF SEALING OPEN JOINTS ON BRIDGES USING BITUMEN IMPREGNATED FOAM IN ACCORDANCE WITH THESE SPECIFICATIONS, IN REASONABLY CLOSE CONFORMITY WITH THE PLANS AND MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS DIRECTED BY THE ENGINEER.

II. MATERIAL: THE MATERIAL SHALL BE A PRECOMPRESSED SELF-ADHESIVE BITUMEN IMPREGNATED FOAM JOINT SEALANT SUCH AS EMSEAL PCSA, PERMABAND 8100 OR AN APPROVED EQUAL. EMSEAL U.S.A., IS LOCATED AT 344 MILL ROAD IN STAMFORD, CT. 06903, AND HAS A TELEPHONE NUMBER OF (203) 322-3828. PERMABAND IS AVAILABLE FROM PERMAQUIK (CANADA) LTD. WHICH IS LOCATED AT 3043 UNIVERSAL DRIVE IN MISSISSAUGA, ONTARIO L4X2E2; TELEPHONE (416) 625-9444.

ALL MATERIAL SHALL BE STORED AND INCORPORATED IN THE WORK AS RECOMMENDED BY THE MANUFACTURER. A MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT AT THE JOB SITE UNTIL SUCH TIME AS HE AND THE ENGINEER ARE SURE THAT THE CONTRACTOR IS QUALIFIED IN ALL ASPECTS OF JOINT SEALING.

III. SURFACE PREPARATION: THE FACES TO WHICH THE SEAL MUST ADHERE SHALL BE SANDBLASTED CLEAN AND BE FREE OF FOREIGN MATERIAL SUCH AS DIRT, DUST, GREASE, FORM OIL, RELEASE AGENTS AND ANY OTHER MATERIAL DETRIMENTAL TO ADHESION OF THE SEALANT.

IV. APPLICATION: JOINT SEALS SHALL BE INSTALLED ONLY WHEN THE SURFACES ARE DRY AND THE SURFACE TEMPERATURE IS ABOVE 50° F. BOTH CONCRETE SURFACES ADJACENT TO THE JOINT SEAL SHALL BE PRIMED AS RECOMMENDED BY THE MANUFACTURER. THE FOAM SEAL SHALL BE REMOVED FROM THE PACKAGING AND ITS NARROW EDGE INSERTED INTO THE JOINT OPENING. THE DEPTH FACE WITH THE SELF-ADHESIVE BACKING SHALL BE PRESSED AGAINST ONE SIDE OF THE JOINT SO THAT FOAM IS HELD IN PLACE WHILE IT RECOVERS.

AT TEMPERATURES ABOVE 70° F THE MATERIAL WILL RECOVER IN A FEW HOURS. AT TEMPERATURES BELOW 70° F THE RECOVERY SHALL BE ACCELERATED BY HEATING THE MATERIAL WITH AN OPEN FLAME, GAS BURNER, INFRA-RED LAMP OR HOT-AIR BLOWER.

A CONTINUOUS LENGTH OF JOINT SEAL SHALL BE ACHIEVED BY JOINING INDIVIDUAL STRIPS ONLY BY MEANS OF SCARFED JOINTS CUT AT 45° OR LESS RELATIVE TO THE SIDES OF THE JOINT. THE SCARFED ENDS MUST BE PUSHED WELL PAST ONE ANOTHER. THE SEAL SHALL NOT BE PULLED OR STRETCHED SO THAT GAPS BETWEEN SUCCESSIVE LENGTHS ARE PREVENTED.

V. METHOD OF MEASUREMENT: FOOTAGE UNDER THIS ITEM SHALL BE THE LINEAR FEET OF BITUMEN IMPREGNATED FOAM SEAL INSTALLED IN THE OPEN JOINTS THAT ARE COMPLETE, IN PLACE AND ACCEPTED.

VI. BASIS OF PAYMENT: THE ACCEPTED QUANTITIES OF SEALED JOINTS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LINEAR FOOT, WHICH PRICE AND PAYMENT SHALL BE FULL COMPENSATION FOR PREPARING THE SURFACES, FURNISHING AND PLACING ALL MATERIALS AND ALL LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE JOINT SEAL ACCORDING TO SPECIFICATIONS. PAYMENT WILL BE MADE UNDER THE FOLLOWING:

ITEM	UNIT	DESCRIPTION
SPECIAL	LINEAR FOOT	2" X 2" BITUMEN IMPREGNATED FOAM JOINT SEAL

ESTIMATED QUANTITIES			
BRIDGE LAK - 283 - 0472			
ITEM	TOTAL	UNIT	DESCRIPTION
404	2	CU.YD.	BITUMINOUS CONCRETE FOR MAINTAINING TRAFFIC
404	17	CU.YD.	ASPHALT CONCRETE AC-20
407	32	GAL.	TACK COAT
606	50	LIN.FT.	GUARDRAIL, TYPE 5
606	4	EACH	BRIDGE TERMINAL ASSEMBLY, STANDARD TYPE A, MODIFIED AS PER PLAN
SPECIAL	150	SQ. YD.	PAVEMENT PLANING, BITUMINOUS
520	1230	SQ.FT.	PNEUMATICALLY PLACED MORTAR
509	496	LBS.	REINFORCING STEEL
509	200	LBS.	REINFORCING STEEL, AS PER PLAN
SPECIAL	56	EACH	DOWEL HOLES
511	4	CU. YD.	CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN
516	120	LIN.FT.	VERTICAL EXTENSION OF STRUCTURAL EXPANSION JOINTS, AS PER PLAN, #1
845	75	CU. YD.	LATEX MODIFIED CONCRETE (VARIABLE THICKNESS)
845	1050	SQ. YD.	LATEX MODIFIED CONCRETE (1-3/4" THICK)
845	2	CU. YD.	FULL DEPTH REPAIR
SPECIAL	60	LIN.FT.	2" X 2" BITUMEN IMPREGNATED FOAM JOINT SEAL
SPECIAL	460	SQ. FT.	PATCHING CONCRETE SURFACES WITH SUPERIOR BONDING MATLS
SPECIAL	1551	SQ. YD.	SEALING OF CONCRETE SURFACES (EPOXY)
516	40	LIN. FT.	VERTICAL EXTENSION OF STRUCTURAL EXPANSION JOINTS, AS PER PLAN, #2
614	0.12	MILES	TEMPORARY CENTER LINES, CLASS II
621	0.12	MILES	EDGE LINES
621	0.12	MILES	CENTER LINES
614	LUMP*		MAINTAINING TRAFFIC
624	LUMP		MOBILIZATION

REVISED 10/7/86

ESTIMATED QUANTITIES AND GENERAL NOTES