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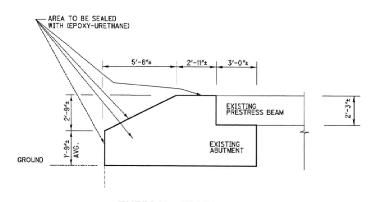
DESIGN

TYPICAL DECK EDGE SEALING

(BEAM SEALING LENGTH = 60'±)

ITEM	QUANTITY	UNIT	DESCRIPTION	
512	67	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
SPECIAL	80	FT	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	
	+	***************************************		

ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET



TYPICAL SECTION AT WINGWALL

(WINGWALLS ARE 1'-6" THICK)

NOTES:

- 1) GUARDRAIL NOT SHOWN.
- 2) SEAL DECK, CURB AND SIDEWALK WITH ITEM 512.AS DETAILED ABOVE. 3) SEAL PARAPET WITH ITEM 512.AS DETAILED ABOVE.
- 4) INSTALL POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM. SEE SHEET 2 / 2 FOR DETAILS.

GENERAL NOTES AND DETAILS FOR POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM

ITEM SPECIAL - POLYMER-MODIFIED ASPHALT EXPANSION

JOINT SYSTEM

THIS LITEV WILL BE USED TO SEAL THE EXPANSION/CONTRACTION JOINTS AS PER THESE DETAILS AND THE WANUFACTURER'S REQUIREMENTS USING A POLYMER-MODIFIED ASPHALT SYSTEM. THE PRIME CONTRACTOR WILL OBTAIN THE SERVICES OF ONE OF THE FOLLOWING APPROVED APPLICATIONS WHO WILL FURNISH AND INSTALL THE NEW BRIDGE EXPANSION JOINT SYSTEM AFTER ALL PAVING ON THE AFFORTER DIPORTS USED SERVICE OXIDID TEXTS.

PRODUCT NAME	SUPPLIER	ADDRESS	PHONE NO.	
THORMA-JOINT	DYNAMIC SURFACE APPLICATIONS, LTD	373 VILLAGE RD. PENNSDALE, PA 17756	(570)546-6041	
MATRIX 502	CRAFCO INC.	420 N. ROOSEVELT AVE. CHANDLER, AZ 85226	(800)528-8242	
EXPANDEX JOINT SYSTEM	WATSON-BOWMAN ACME	95 PINEVIEW DR. AMHERST, NY 14228	(716)691-7566	
APJ ASPHALTIC PLUG EXPANSION JOINT	WYOMING EQUIPMENT SALES	261 SIXTH STREET P.O. BOX 287 WEST WYOMING, PA 18644	(570)693-2810	

MATERIALS:

BRIDGING PLATE:

MILD STEEL Y₈" OR Y₄" THICK PLATE, 8" WIDE OR 18 GAUGE ALUMINUM, 8" WIDE.

BINDER

TYPE: SOFTENING POINT: FLOW: PENETRATION:

3 mm. MAX. AT MO DEGREES F. 9 mm. MAX. AT 77 DEGREES F. 1 mm. MAX. AT 77 DEGREES F. ASTM ID 3407 40 cm. MIN. ASTM ID 113 80% MIN. AT 77 DEGREES F. 700% MIN. 1.10 * 0.05 350 - 330 DEGREES F.

180 DEGREES F. MIN.

AGGREGATE: Type:

CRUSHED, DOUBLE WASHED, AND DRIED GRANITE OR BASALT

POLYMER MODIFIED ASPHALT

GRADATION

DUCTILITY:

RESILIENCE:

TENSILE ADHESIONS

SPECIFIC GRAVITY:

THE GRADATION OF THE AGGREGATE VARIES BY MANUFACTURER AND WILL BE AS PER THE MANUFACTURER'S RECOMMENDATIONS FOR THE SYSTEM BEINS USED ON THIS PROJECT.

BACKER ROD:

THE BACKER SHALL BE A CLOSED CELL FOAM EXPANSION JOINT FILLER CAPABLE OF WITHSTANDING THE PLACEMENT TEMPERATURE OF THE POLYMER MODIFIED ASPHALT.

NOTE: PRIOR TO PLACEMENT OF ANY PORTION OF THE JOINT SYSTEM, THE PROJECT ENGINEER MUST HAVE CERTIFIED TEST DATA MEETING ALL THE MINIMUM REQUIREMENTS OF ALL THE MATERIALS OF THE JOINT SYSTEM.

INSTALLATION PROCEDURES:

DESIGN FILMPROJECTS/7

SAWING AND SURFACE PREPARATION:

AFTER ALL PAVING OPERATIONS ARE COMPLETE, THE OVERLAY IS TO BE TEXTS TEXTS TO SET TEXTS. THAN TWO INCHES DEEP LROY CENTERED OVER JOBN OF DEPOINS, MLLESS OTHERWISE MOTE DIE WEB DEFINED OF THE WISE OF

SECOND WITH IS PSIC CHAMBER PRESSURE. IF THERE IS AN INTERRUPTION DUE TO MEATHER OR OTHER CAUSES, THE OPERATION WILL BE REPEATED WITH THE HEAL ANDER DAMPOLITELY BEFORE THE BUDGET COAT OPERATION. ALSO, 6 INCHES OF THE ROAD SURFACE ON EITHER SIDE OF THE JOINT WILL BE DRIED SO THAT A SUITABLE SURFACE FOR BITLMEN ADMESSION IS OPTAINED.

SEALING OF EXPANSION JOINT: (PRE-STRESSED BOX OR CONCRETE SLAB)

THE EXPANSION JOINT GAP IS TO BE SEALED AND A BRIDGING PLATE CONTERED ALONG IT. A VERY NARROW GAP WILL BE SEALED BY POURING HOT BINDER INTO THE GAP. CAPS OF $V_{\rm S}$ OF MOME MILL FIRST BE FILLED MITH AN APPROPRIATELY SIZED BACKER ROD. THE BACKER ROD WILL BE INSTALLED SO THAT IT IS BETWEEN $J_{\rm S}^{\prime}$ and 1- $J_{\rm C}^{\prime}$ Below the TOP of the Existing Gap. The Gap will then be filled with binder.

BOND BDEARED

SPREAD BINDER OVER SUBFACE AREA WHERE THE METAL BRIDGING PLATE WILL BE PLACED, CENTER THE BRIDGING PLATE OVER THE EXISTING JOINT AND BED INTO THE HOT BINDER. BUTT JOINT THE BRIDGING PLATES TO ARODOMOTE THE BRITTER JOINT LENGTH, SPIKE HOLES WILL BE DRILLED AT 1 FOOT INTERVALS ALONG THE LONSTUDINAL CENTERLINE OF THE PLATES. SECURE BRIDGING PLATE WITH NAILS OR SPIKES. SEAL BUTT JOINT WITH HOT BINDER AND ALLOW BINDER TO SETUP BEFORE NEXT OPERATION. WHEN ALLAMIMIM BRIDGING PLATES ARE USED, ONLY THE BINDER IS RECURRED TO SECURE THE INDIVIDUAL PLATES.

BINDER COATS

SEAL ALL PREPARED, EXPOSED SUPFACES OF THE JOINT WITH BINDER. POUR THE HOT BINDER OVER THE FLOOR AREA OF THE JOINT AND SPEED TO COAT ALL EXPOSED SURFACES. THE BINDER WILL BE A MINIMAN OF ME. THICK ON THE BOTTOM OF THE JOINT CAPITY, WITH POOLS OF GREATER THICKNESS WHERE SURFACE INFECULARITIES EXIST. THE BINDER PRPLICATION THEMPERATURE WILL BE BETWEEN 350 AND 350 DEGREES F. THE BINDER WILL NOT BE ALLOWED TO BE FURTHER OF THE BINDER WILL NOT BE ALLOWED TO BE FOR HOME THAN THOUR. A DOUBLE JACOSETED OIL MELTER WILL BE USED TO HEAT THE BINDER. THE MELTER WILL BE EXCUPPED WITH A CONTINUOUS AGITATION SYSTEM, TEMPERATURE CONTROLS, AND A CALIBRATED THEMPHOWETER. ALSO A SYSTEM FOR ACCURATELY MEASURING THE WIELDS OF THE BINDER AND THE ACCORATE WILL BE REQUIRED.

BUILD-UP OF JOINT LAYERS:

AGGREGATE PREPARATION:

HEAT THE AGGREGATE TO A TEMPERATURE OF 275 TO 325 DEGREES F., WITH A SUITABLE ROTATING DRUM WITH ATTACHED HEAT SOURCE OR A HOT COMPRESSED AIR LANCE, TO REMOVE DUST AND MOISTURE.

AGGREGATE PROPORTION AND LAYER THICKNESS:

MIX THE AGGREGATE WITH THE BINDER SIJCH THAT THE MINIMUM AGGREGATE CONTENT BY NEIGHT WILL BE 60%. THE HEATED AGGREGATE AND BINDER WILL BE COMBINED IN LAYERS, UNLESS PATENTED INSTALLATION REQUIRES DIFFERENTLY, NOT LESS THAM ½ OF AN INCH MOR EXCEEDING 2-1/2 INCHES. THE THICKNESS OF EACH LAYER CAN BE VARBED WITHIN THESE LIMITS, TO ACHIEVE THE REQUIRED JOINT THICKNESS QUIN. 2 INCHESI. THE OBJECTIVE IS TO COAT EACH STONE AND ETHILL THE VOIDS WHILE AVOIDING AN EXCESS OF BINDER. THIS WILL ACHIEVE THE MAXIMUM CONTENT OF STONE CONSISTENT WITH ALL STONES BEING COATED WITH BINDER. RAKE THE MIXTURE TO MIX AND LEVEL.

THE TOP LAYER THICKNESS WILL VARY BETWEEN ½ INCH AND ONE (I) INCH. IN PREPARING THE TOLAYER, THE ARTIO OF AGGREGATE TO BINDER WILL BE APPROXIMATELY SHIB WRICHT. OVERFILL THE TOP LAYER AND COMPACT TO THE LEYEL OF THE ADJACENT SURFACES USING A ROLLER OR VIBRATORY PLATE COMPACTOR. BIMEDIATELY AFTER COMPLETION OF THE COMPACTOR, POUR SUFFICIENT BINDER OVER THE JOINT TO FILL THE SURFACE VOIDS AND COAT THE SURFACE STOKE. DUST THE FINISHED JOINT WITH A FINE, DRY AGGREGATE OF PREVENT TACKNESS.

MAINTENANCE OF TRAFFIC:

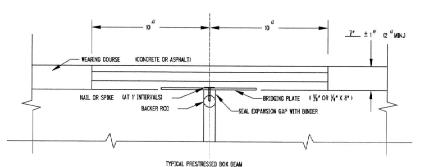
IF NECESSARY TO FACILITATE TRAFFIC MAINTENANCE, THE JOINT WILL BE INSTALLED IN TWO (22) HALF-WOUTH PRISES. DIRING PRISES I APPROXIMATELY HALF OF THE TOTAL JOINT WILL BE INSTALLED. DURING PHASE 2, A MINIMAN OF TWO (22) INCHES OF THE PHASE I JOINT WILL BE REMOVED, AT OR NEAR THE CONTENLINE, WITH THE REMAINDER OF THE JOINT INSTALLED. IN ALL CASES, OPERATIONS WILL BE SCHEDULED SO THAT ALL LANGE CAN BE OPEN TO TRAFFIC DURING ALL NOW-MORKING HOURS.

TESTING:

CERTIFICATION WILL BE SUPPLIED FOR EACH PROJECT SHOWING BINDER COMPLIANCE WITH REQUIRED PROPERTIES. A ONE QUART SAMPLE OF BINDER WILL BE RETRIEVED FROM EACH BRIDGE FOR FURTHER TESTING BY THE OJOJO,T OFFICE OF MATERIALS MANAGEMENT.

NETHOD OF MEASUREMENT AND BASIS OF PAYMENT:

THE DEPARTMENT WILL MEASURE THE JOINT BY THE NUMBER OF FEET AND WILL PLY FOR ACCEPTED QUANTITIES INCLUDING THE REMOVAL OF THE EXISTING POLYMER JOINT AT THE CONTRACT PRICE AS: ITEM SPECIAL, FEET, POLYMER MODIFIED SEPHALT EXPANSION JOINT SYSTEM.



COST TO REMOVE EXISTING POLYMER JOINT IS INCLUDED WITH PLACING THE NEW POLYMER JOINT

SPECIAL	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	FT	80
ITEM	OESCRIPTION	UNIT	QUANTITY
	LOR-20-0217 SFN 4701852		

QUANTITY CARRIED TO SHEET NO. 96

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