

**C. CURING**

THE BRIDGE DECK SHALL BE WATER CURED PER CMS 511.14 METHOD (A) USING CONTINUOUS SPRINKLING AND NO PLASTIC SHEETING.

AN EVAPORATION RETARDANT AND FINISHING AID MAY BE USED AT THE CONTRACTOR'S OPTION PRIOR TO THE TILING OPERATION. \* ANY PRODUCT USED FOR SUCH PURPOSE SHALL BE SPECIFICALLY MARKETED FOR SAID USE (PLAIN WATER IS NOT ACCEPTABLE). THE APPLICATION RATE SHALL NOT EXCEED THE HOURLY SURFACE EVAPORATION RATE AS DETERMINED BY FIGURE 1 IN SS 845 ON PAGE 11.

IMMEDIATELY AFTER THE TEXTURING OPERATION, THE CONTRACTOR SHALL SPRAY AN EVAPORATION RETARDANT OVER THE TEXTURED AREA. THE APPLICATION RATE SHALL BE AS PER THE MANUFACTURER'S RECOMMENDATIONS. THE WET BURLAP CURE SHALL FOLLOW THIS OPERATION AS CLOSELY AS POSSIBLE.

SIDEWALKS, CURBS, AND PARAPETS MAY BE MEMBRANE CURED PER SS 836 UNLESS OTHERWISE NOTED.

**D. POUR SEQUENCE**

IN ORDER TO PREVENT WATER FROM ENTERING THE FRESH CONCRETE, ALL POURS SHALL BE MADE "UPGRADE" WHENEVER POSSIBLE. ALL OTHER PROVISIONS OF 511 SHALL REMAIN IN EFFECT.

**E. PROPORTIONING**

THE PROPORTIONS OF COARSE AND FINE AGGREGATES SHALL BE MODIFIED TO PROVIDE THE MAXIMUM AMOUNT OF COARSE AGGREGATE POSSIBLE AND STILL PROVIDE A WORKABLE AND FINISHABLE MIX. THE USE OF FLAT, ANGULARLY BROKEN AGGREGATE SHALL BE AVOIDED.

**\* THE EVAPORATION RETARDANT SHALL BE APPROVED BY THE ENGINEER .**

**ITEM 511 - CLASS C CONCRETE, ABUTMENTS**

THIS ITEM SHALL CONSIST OF FURNISHING AND PLACING PORTLAND CEMENT CONCRETE IN ACCORDANCE WITH 511 WITH THE ADDITION THAT ALL EXISTING CONCRETE SURFACES THAT WILL BE IN CONTACT WITH CLASS C CONCRETE SHALL BE THOROUGHLY SANDBLASTED AND AIR CLEANED.

CLASS C CONCRETE SHALL BE USED FOR THE MODIFICATION OR REPLACEMENT OF THE ABUTMENT BACKWALLS, CONCRETE PARAPETS ABOVE WINGWALLS AND ABUTMENT WINGWALLS.

**ITEM 516 - STRUCTURAL EXPANSION JOINTS INCLUDING ELASTOMERIC STRIP SEALS**

THIS ITEM SHALL CONSIST OF FURNISHING, FABRICATING, AND INSTALLING STRUCTURAL STEEL EXPANSION JOINTS WITH ELASTOMERIC STRIP SEALS PER DRAWING EXJ-4-87. ALSO INCLUDED IN THIS ITEM FOR PAYMENT ARE THE NEW GUSSET SPLICE PLATES AS SHOWN ON SHEET [78/78].

NEW STEEL SHALL BE CLEANED AND IT SHALL BE PRIME PAINTED IN THE FIELD. AT THE CONTRACTOR'S OPTION, NEW STEEL MAY BE GIVEN A PRELIMINARY CLEANING IN THE SHOP. THE COST OF CLEANING AND PRIME PAINTING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE SPECIAL ITEMS "FIELD PAINTING OF NEW STRUCTURAL STEEL, SYSTEM OZEU."

DURING INSTALLATION OF THE ARMOR FOR THE SUPERSTRUCTURE SIDE OF THE EXPANSION JOINT SEAL, THE SEATING OF BEAMS ON BEARINGS SHALL BE CAREFULLY OBSERVED TO ASSURE THAT POSITIVE BEARING IS MAINTAINED. PROPER VERTICAL FIT OF THE ARMOR ON THE BEAMS SHALL BE ACHIEVED BY POSITIONING OF THE BEVEL FILL PLATES RATHER THAN BY CLAMPING FORCE.

**ITEM SPECIAL - SEALING OF CONCRETE SURFACES, EPOXY**

AN EPOXY SEALER SHALL BE APPLIED TO THE EXPOSED CONCRETE SURFACES OF THE BRIDGES AS LISTED BELOW. SEE PROPOSAL NOTE FOR SEALER MATERIAL, SURFACE PREPARATION REQUIREMENTS, AND APPLICATION RATES AND PROCEDURES.

ABUTMENT BRIDGE SEATS, 1'-0" DOWN THE FACE OF THE BRESTWALL FROM THE LEVEL OF THE BRIDGE SEATS, AND FACE OF BACKWALLS AS SHOWN IN TYPICAL DETAIL ON SHEET [77/78].

**ITEM SPECIAL - SEALING OF CONCRETE SURFACES, NON-EPOXY**

A NON-EPOXY SEALER SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES OF THE PIER CAPS AND COLUMNS. SEE PROPOSAL NOTE FOR SEALER MATERIAL, SURFACE PREPARATION REQUIREMENTS, AND APPLICATION RATES AND PROCEDURES.

**ITEM SPECIAL - SEALING OF CONCRETE SURFACES**

A CONCRETE SEALER SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES OF THE BRIDGES AS LISTED BELOW. SEE PROPOSAL NOTE FOR SEALER MATERIAL, SURFACE PREPARATION REQUIREMENTS, AND APPLICATION RATES AND PROCEDURES.

CURBS, SIDEWALKS (WHERE APPLICABLE), MEDIAN (WHERE APPLICABLE), PARAPETS, DECK FASCIA, AND UNDERDECK RETURNS AS INDICATED IN DETAILS ON SHEETS [14/78], [31/78], [48/78], AND [68/78].

WINGWALLS AND WINGWALL PARAPETS AS SHOWN IN TYPICAL DETAIL ON SHEET [77/78].

**JOINT SEALER AT BRIDGE LIMITS**

NEW PREFORMED ELASTOMERIC JOINT SEALER AT THE BRIDGE LIMIT ENDS OF ALL APPROACH SLABS (NEW APPROACH SLABS, EXISTING APPROACH SLABS, AND NEW PORTIONS ADDED TO WIDEN EXISTING APPROACH SLABS) SHALL BE INCLUDED WITH THE APPROACH SLAB FOR PAYMENT.

<b>COLPETZER-THOMAS, INC.</b> AN ENGINEERING GROUP						
<small>WILLOUGHBY • MENTOR • NORTH CANTON • STEUBENVILLE • LORAIN</small>						2/78
<b>GENERAL NOTES</b>						
<b>ALL STRUCTURES</b>						
LAKE COUNTY						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
B.J.A.	J.L.J.	J.L.J.	R.J.C.	JEA	11-15-88	