

				BRI	DGE PLANS ID	SHEET	
				H	####-####	####	
NOT	ES						
PROVI STANE	PROVIDE THE STRIP SEAL EXPANSION JOINT IN ACCORDANCE WITH SECTION 723 OF THE STANDARD SPECIFICATIONS.						
PROVI	PROVIDE STRIP SEAL JOINTS THAT CONFORM TO THE CROWN OF THE FINISHED ROADWAY.						
FABRICATE THE STEEL EXTRUSIONS IN REASONABLE LENGTHS AND CONNECT THEM AT THE JOB SITE USING PARTIAL PENETRATION GROOVE WELDS. DO NOT WELD AREAS WHERE THE EXTRUSION COMES IN CONTACT WITH THE STRIP SEAL. GRIND EXPOSED SURFACES OF WELD FLUSH. COMPLETE WELDING AND GRINDING PROCESS PRIOR TO INSTALLING SEALS. AFTER FIELD WELDING IS COMPLETE, CLEAN AND PAINT DAMAGED AREAS. DETAIL FIELD WELDS AND SPLICE LOCATIONS ON SHOP PLANS. THE NUMBER OF SPLICES MUST BE APPROVED BY THE RCE.							
SUBMIT THE INSTALLATION PLAN TO THE RCE FOR ACCEPTANCE PRIOR TO INSTALLATION.							
FABRICATE AND CONSTRUCT THE STRIP SEAL MOUNTING IN THE BARRIER SO THAT THE STRIP SEAL GLAND MAY BE REMOVED FOR FUTURE MAINTENANCE.							
PROVIDE $\frac{5}{8}$ " Ø HEADED STUDS THAT MEET THE REQUIREMENTS OF SECTION 709 OF THE STANDARD SPECIFICATIONS. ELECTRICALLY WELD ALL STUDS.							
FIELD	BEND SLAB REINF	ORCING AS REQU	IRED TO CLEAR AN	NCHOR STUDS.			
PROVI GRADI	DE CHECKERED ST E 36 AND GALVAN	TEEL COVER PLAT ZE IN ACCORDAN	E CONFORMING T CE WITH AASHTO	O THE LATEST AA M 111.	SHTO M 270,		
(1) ALTERNATE LOCATION OF STUDS AS SHOWN IN ELEVATION DETAILS.							
MOVEMENT TABLE							
ISION MAL)	CONTRACTION (THERMAL)	CONTRACTION (CREEP & SHRINKAGE)	JOINT WIDTH "W" AT 70°F	TOTAL RATED MOVEMENT	$\triangle$ TEMP. ± 10°F		

STRIP SEAL EXPANSION JOINT SYSTEMS				
ACTURER	DESIGNATION			
OWN CO.	STEELFLEX L2-XXX WITH TYPE SSPA STEEL EXTRUSION			
IAN ACME CORP.	WABO SE-XXX WITH TYPE P STEEL EXTRUSION			

STRIP SEAL EXPANSION JOINT DETAILS

## SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

CONSULTANT NAME/LOGO

COUNTY: ####

ROUTE: ####

DRAWING NUMBER: 723-01.SSEXPJT



REQUIREMENT
55 <u>+</u> 5
1000 PSI MIN.
400 % MIN.
100 LB/IN MIN.
30 % MAX. AT 350°F/22 HRS.
-55°F TO 350°F
BLACK OR GRAY

PROVIDE ADHESIVE THAT COMPLIES WITH THE REQUIREMENTS IN THE TABLE BELOW

TEST	TEST METHOD	REQUIREMENT
SAG/FLOW	ASTM C 639	<sup>3</sup> ⁄ <sub>16</sub> " MAX.
ELONGATION	ASTM D 412	450%
TACK-FREE TIME	ASTM C 679	30 MIN. MAX.
CURE THROUGH TO ¼" THICKNESS AT 75°F/50% RH	ASTM C 679	24 HRS. MAX.
RESISTANCE TO UV	ASTM C 793	NO CRACKING. OZONE CHALKING, OR DEGRADATION.
TENSILE STRENGTH	ASTM D 412	200 PSI MIN.
COLOR		BLACK OR GRAY

THIS DRAWING IS FUR ONLY. ALL DIMENSION SPECIFIC. ANY USE OF DRAWING, INCLUDING CHECKED BY THE USE DESIGN IS ADEQUATE ALL DRAWINGS MUST A SOUTH CAROLINA R ENGINEER WHEN USE



ALLOW 60 MINUTES TO PASS BEFORE ALLOWING TRAFFIC OVER THE JOINT SEAL.

FACTORY VULCANIZE VERTICAL UPTURNS AND DIRECTIONAL CHANGES.

RCE WILL OBSERVE THE JOINT CONDITION AND PERFORMANCE UNTIL FINAL INSPECTION.





PROVIDE A WATERTIGHT JOINT AND SEAL. THE JOINT WILL NOT BE TESTED, BUT THE



FIELD WELD DETAIL

 $\frac{1}{2}$ " Ø STUD-

MANUFACTURER

RJ WATSON INC.

SEAL INSTALLATION:

BEGINS, DO NOT STOP UNTIL IT IS COMPLETED.

DO NOT START INSTALLING THE SEAL ON THE PROJECT UNTIL A TRAINED FACTORY REPRESENTATIVE IS ON THE JOB SITE TO PROVIDE DIRECTION AND ASSISTANCE THROUGHOUT THE INSTALLATION WORK. NOTIFY THE JOINT MANUFACTURER OF THE SCHEDULED INSTALLATION A MINIMUM OF 2 WEEKS IN ADVANCE. THE FACTORY REPRESENTATIVE MUST BE PRESENT FOR THE INSTALLATION OF THE FIRST SEAL AND SUCCEEDING SEALS UNTIL THE CONTRACTOR BECOMES PROFICIENT IN THE WORK AS DETERMINED BY THE RCE.

THE MINIMUM TEMPERATURE FOR INSTALLING THE SEAL IS 40° F AND RISING AMBIENT AIR TEMPERATURE. ENSURE THAT THE JOINT AND SEAL ARE COMPLETELY DRY BEFORE INSTALLING THE SEAL. DO NOT INSTALL SEAL IMMEDIATELY AFTER PRECIPITATION OR

IF PRECIPITATION IS ANTICIPATED FOR THE DAY. ONCE WORK ON PLACING A SEAL

PRIOR TO INSTALLATION, SANDBLAST THE VERTICAL FACES OF ARMOR PLATE TO A

ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. AS REQUIRED BY THE

THE SEAL UNTIL THE ADHESIVE SETS. ENSURE THE BACKER ROD/FOAM BOARD IS COMPATIBLE WITH THE ADHESIVE AND PRIMER, IF REQUIRED, AND IS A CLOSED CELL, NONGASSING, POLYETHYLENE FOAM. IF PRIMER IS RECOMMENDED OR REQUIRED BY THE

WITH THE SEAL MANUFACTURER'S INSTRUCTIONS. PERMIT THE PRIMER TO DRY

TO THE CLEANED SURFACE ON THE SAME DAY THE CLEANING IS PERFORMED.

APPLY A MINIMUM <sup>3</sup>/<sub>8</sub>" THICK CONTINUOUS BEAD OF ADHESIVE TO THE JOINT IN

NEAR-WHITE CONDITION. USING OIL-FREE AND WATER-FREE COMPRESSED AIR, BLOW

JOINT AREA CLEAN TO REMOVE ALL SAND AND DEBRIS. WIPE CLEAN ARMOR PLATE WITH

A CLOTH SATURATED IN DENATURED ALCOHOL PERFORM ANY ADDITIONAL CLEANING IN

MANUFACTURER, USE A SQUARE BACKER ROD OR FOAM BOARD TO TEMPORARILY SUPPORT

MANUFACTURER, MIX AND APPLY THE PRIMER TO THE CLEAN DRY JOINT IN ACCORDANCE

ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS PRIOR TO PLACING ADHESIVE OR SEAL. UNROLL SEAL AND PLACE ADJACENT TO JOINT OPENING. CLEAN THE SEAL WITH A CLOTH SATURATED WITH SOLVENT APPROVED BY THE MANUFACTURER. BOND THE SEAL

NOTES:					
PROVIDE ONE OF THE PREFORMED SILICONE JOINT SEALS LISTED BELOW IN THE PREFORMED SILICONE JOINT SYSTEM TABLE.					
SET THE NOMINAL JOINT V TEMPERATURE, MEASURE HOUR PERIOD, AS THE SET DECREASE THE JOINT OPE TEMPERATURE IS ABOVE ' EACH 10°F THAT THE SET	VIDTH, "W" TO X" AT 70°F. USE THE D IN THE SHADE AND AVERAGED O' 'TING TEMPERATURE. AT THE TIME NING BY X" FOR EACH 10°F THAT TI 70°F OR INCREASE THE JOINT OPEN FING TEMPERATURE IS BELOW 70°I	ACTUAL AIR VER THE PRECEDING 24 COF CONSTRUCTION, HE SETTING ING BY X" FOR F.			
ENSURE THREE COPIES OF OF THE MANUFACTURER ( INSTALLATION OF THE SE THE MANUFACTURER'S TH ACCOMPANIED BY THE TE BEEN SAMPLED, TESTED A CERTIFICATIONS FOR SEA OF THE MATERIALS.	CERTIFICATIONS ARE SIGNED BY A OR SUPPLIER AND SUBMITTED TO T AL. THE REQUIRED CERTIFICATIONS ST REPORTS, OR A STATEMENT BY ST RESULTS, CERTIFYING THAT THE ND INSPECTED. FAILURE TO PROVI LS AND LUBRICANT/ADHESIVE IS G	IN AUTHORIZED AGENT HE RCE PRIOR TO THE S ARE A COPY OF THE SUPPLIER E MATERIALS HAVE DE THE REQUIRED ROUNDS FOR REJECTION			
INSTALL SEALS IN ACCORI STIPULATED OTHERWISE	DANCE WITH THE MANUFACTURER' IN THESE PLANS OR THE SPECIAL P	S INSTRUCTIONS UNLESS ROVISIONS.			
PROVIDE A WATERTIGHT OF THE SEAL.	SEAL ALONG THE ENTIRE LENGTH I	NCLUDING THE ENDS			
ADHESIVES:					
USE A ONE PART, MEDIUM ADHERES TO CONCRETE, S	MODULUS, SILICONE SEALANT THA TEEL, AND THE PREFORMED SEAL.	AT CURES QUICKLY AND			
JOINT ARMOR:					
PROVIDE STEEL ARMOR P AASHTO M 270, GRADE 50	LATES THAT CONFORM TO THE REQ W (ASTM A 709, GR. 50W) AND ARE	UIREMENTS OF THE LATEST OF WELDABLE QUALITY.			
PROVIDE <sup>3</sup> / <sub>8</sub> " PLATES THAT HAVE SMOOTH EDGES. FAI CONNECT THEM AT THE JO WELDS AT THE EXPOSED S PRIOR TO BONDING SEALS <sup>9</sup> / <sub>16</sub> " Ø HOLES AT APPROXIN	CONFORM TO THE CROWN OF THE BRICATE THE <sup>3</sup> / <sub>8</sub> " PLATES IN REASON B SITE USING PARTIAL PENETRATI SURFACES OF PLATES FLUSH. PERFC IF NECESSARY TO BOLT THE <sup>3</sup> / <sub>8</sub> " PL MATELY 2' ON CENTER IN THE LOWI	FINISHED ROADWAY AND NABLE LENGTHS AND ON GROOVE WELDS. GRIND ORM WELDING OF SPLICES LATES TO THE FORMS, PROVIDE ER PORTION OF THE PLATES.			
PROVIDE ½" Ø HEADED ST THE STANDARD SPECIFICA	UDS THAT MEET THE REQUIREMEN ATIONS. ELECTRICALLY WELD ALL S	ITS OF SECTION 709 OF TUDS.			
FIELD BEND TOP SLAB REI	NFORCING AS REQUIRED TO CLEAR	ANCHOR STUDS.			
PAYMENT:					
PAYMENT FOR THE ACCEPTED QUANTITY OF DECK JOINT STRIP SEAL, MEASURED IN ACCORDANCE WITH SUBSECTION 723.5 OF THE STANDARD SPECIFICATIONS, IS DETERMINED USING THE CONTRACT UNIT BID PRICE FOR THE PAY ITEM. PAYMENT IS FULL COMPENSATION FOR FURNISHING AND INSTALLING THE PREFORMED SILICONE JOINT SYSTEM AS SPECIFIED OR DIRECTED AND INCLUDES PREPARING SHOP PLANS; PROVIDING AND INSTALLING THE PREFORMED SILICONE SEAL AND STEEL COMPONENTS INCLUDING WELDED STUDS, ARMOR PLATES, ADDITIONAL ARMOR PLATE LENGTH REQUIRED TO TERMINATE THE JOINT AT THE FACE OF THE PARAPET, CURB OR SIDEWALK RAILING WALL, AND COVER PLATES; CLEANING AND PREPARATION OF STEEL COMPONENTS; HAVING MANUFACTURER'S REPRESENTATIVE ON SITE; AND ALL OTHER MATERIALS, LABOR, EQUIPMENT, TOOLS, SUPPLIES, TRANSPORTATION, AND INCIDENTALS NECESSARY TO FULFILL THE REQUIREMENTS OF THE PAY ITEM IN ACCORDANCE WITH THE PLANS, THE SPECIFICATIONS, AND OTHER TERMS OF THE CONTRACT. PAYMENT INCLUDES ALL DIRECT AND INDIRECT COSTS AND EXPENSES NECESSARY TO COMPLETE THE WORK.					
PREFORMED SILICO	NE JOINT SYSTEM				
DESIGNATION					
	CONSULTAN	T NAME/LOGO			
I NISHED FOR INFORMATION	SOUTH DEPARTMENT OF	CAROLINA TRANSPORTATION			
THIS DESIGN AND		ORMED			
R'S ENGINEER TO ENSURE FOR THE INTENDED USE. BE SIGNED AND SEALED BY EGISTERED PROFESSIONAL	SILICONE JO ALTE	DINT SYSTEM RNATE			
<i>ν</i> .	COUNTY: ####	ROUTE: ####			

BRIDGE PLANS ID

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SHEET

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DRAWING NUMBER: 723-02.PSJTALT



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## PREFORMED SILICONE JOINT DETAILS FOR SIDEWALK SUPPLEMENTAL

