NOTES:

JOINT TYPES

The expansion joint device shall be of a type that includes a continuous membrane or equivalent seal across the deck. Unless otherwise noted on the plans, the contractor is at the option of design or the details listed below.

<table>
<thead>
<tr>
<th>Device</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Void Stop Seal</td>
<td>WATSON SEALS &amp; AGENCY, INC.</td>
</tr>
<tr>
<td>Bond Break Seal</td>
<td>WATSON SEALS &amp; AGENCY, INC.</td>
</tr>
<tr>
<td>Steel Stop Seal</td>
<td>E.S. BROWN</td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>NIETZKE RUSS &amp; AGENCY, INC.</td>
</tr>
<tr>
<td>CASTER AD DS</td>
<td>STRUCTURAL RUBBER PRODUCTS CO.</td>
</tr>
</tbody>
</table>

The model of the joint type selected shall be suitable to accommodate the total movement noted on the plans.

Complete working drawings of all details of fabrication of the expansion joint device shall be submitted for review in accordance with standard specification G400. This requirement is waived for expansion joint devices for which a set of standard installation details and plans approved for standard installation details can be obtained from the design support area.

FABRICATION AND INSTALLATION

The expansion joint shall be shop fabricated to conform to the design of the bridge deck, barriers, etc., it shall be installed in accordance with site conditions subject to inspection and the approval of the engineer.

The top of the expansion joint device shall be set 1/4” below the concrete slab (4/16") with a tolerance of ± 1/4”.

The steel membrane for the steel seal shall be pre-tensioned in accordance with the section 701.04 of the standard specifications.

The area of the steel membrane and sealing gland which will be in contact with a sealing gland, shall be painted with Toluene on the approved product.

Where the sealing gland is located in a steel anchorage, a lubricant resistant conforms to the standard specification 52.04 and shall be inspected between the seal and steel anchors.

In event that the expansion joint is required the seal will be inspected by an approved method of inspection as cold vulcanization by a trained representative of the manufacturer.

DETAILS AT CURB BARRIER

The details on this sheet show an approved means of terminating the expansion joint device at curbs or Expansion Joint Device is included for expansion joint device.

The cost of all materials and labor required for proper installation of the expansion joint and the expansion joint device in the curbs, sidewalks, or barriers is included in the payment for the expansion joint device.

<table>
<thead>
<tr>
<th>STRUCTURE NUMBER</th>
<th>EFFECTIVE LENGTH OF JOINT</th>
<th>LOCATION OF JOINT</th>
<th>MATERIAL AND METHOD OF INSTALLATION</th>
<th>EXPANSION JOINT DETAILS</th>
</tr>
</thead>
<tbody>
<tr>
<td>S01</td>
<td>100’</td>
<td>Pier 1</td>
<td>100’ EXPANSION JOINT</td>
<td></td>
</tr>
<tr>
<td>S01</td>
<td>100’</td>
<td>Pier 2</td>
<td>100’ EXPANSION JOINT</td>
<td></td>
</tr>
<tr>
<td>S01</td>
<td>100’</td>
<td>Pier 3</td>
<td>100’ EXPANSION JOINT</td>
<td></td>
</tr>
</tbody>
</table>

MDOT EXPANSION JOINT DETAILS

EJ3X (04/26/2004)

DATE: 05/01/2012

JOB NO.: 314 81A

DESIGN UNIT: 2 OF 12
PLAN OF DECK

DECK RESURFACING DETAILS
SECTION AT PROPOSED TRANSVERSE JOINT

BEFORE FORMING, REINFORCEMENT TO BE PLACED TO ADDITIONAL THICKNESS WILL BE REQUIRED.

MISCELLANEOUS QUANTITIES

THE ACTUAL QUANTITY OF SILICA FUME MODIFIED CONCRETE PLACED ON THE SHEAR WALL HEAD MASONRY
SHALL BE DETERMINED BASED ON END聯EERING.

TO BE USED FOR SUBSTRUCTURE REPAIR AS DIRECTED BY THE ENGINEER.

SECTION THRU BARRIER AT PROP EXPANSION JOINT DEVICE
NOTES:

THIS BRIDGE IS COATED WITH LEAD BASED PAINT.

SUBSECTION 7.16 OF THE STANDARD SPECIFICATIONS FOR PROTECTION OF WORK AND ENVIRONMENT DURING THE BUSTING CLEANING OF STRUCTURES, CONDUCTS SHALL NOT BE CLEANED AND COATED. USE SUBSECTION 7.16 OF THE STANDARD SPECIFICATIONS.

CONCRETE SURFACE COATING SHALL BE APPLIED TO THE TOP OF ALL PIERs.

PEENETRATING WATER REPELLENT TREATMENT SHALL BE APPLIED TO THE ENTIRE EXPOSED SURFACE OF ALL STEEL EXCEPT THAT WHERE WELDING OR EXISTING CORRUGATED RAIL IS REQUIRED.

THE AREA BEHIND AND AROUND THE HANGER ASSEMBLY SHALL BE LEFT CLEAN AND CORRECT PRIOR TO INSTALLING THE NEW LINK PLATES AND FULLY PROPOSED LINK PLATES SHALL BE SHAPED CLEAN.

THE PROTECTION OF WORK AND ENVIRONMENT DURING BUSTING CLEANING OF ALL BEAMS AND BOLTED HANGER ASSEMBLIES SHALL BE ACCORDING TO SUBSECTION 7.16 OF THE STANDARD SPECIFICATIONS. IT IS INCLUDED IN THE BEAM HANGER ASSEMBLY, REMOVAL AND INSTALL.

WELDING ON EXISTING CORRUGATED WILL NOT BE PERMITTED.

THE PERMISSIBLE HYDRAULIC JUMP CAPACITY SHALL NOT BE LIMITED TO 70 TON.

ALTERNATE DESIGNS OF THE TEMPOARY SUPPORTS SHALL BE BASED ON LOADS AS FOLLOWS:

240 KPS = VERTICAL LOAD, LBS.

THE EXISTING SIPS IS PERCENT THE STRUCTURAL STAY THAT HAVE BEEN BOLTED CLEANED AND EXAMINED FOR FRAGMENTS OR EXCESSIVE TENSION DUE TO HAY PROJECTS. LOADING DATA SHOULD BE REPORTED IN WRITING TO THE RD 149 BRIDGE ENGINEER.

THE SIGNS OVER I-34 SHALL BE REMOVED FOR CLEANING AND COATING OF THE SIGNS. FOR ALL SIGNS FALLING TO BE INSTALLED ON NEW CONNECTION HARDWARE PRIOR TO INSTALLING THE NEW CONNECTION HARDWARE, THE SUBMISSIVE OF THE NEW CONNECTION HARDWARE. (INCLUDES THE PROPOSED NEW CONNECTION HARDWARE, EXISTING HANGERS, AND EXISTING SIGNS.)

SEALANT SHALL BE APPLIED AROUND THE PERIMETER OF BEARING PLATES TO CONCRETE CONTACT SURFACES AFTER CUTTING AWAY ANY EXISTING PORTION OF LEAD PLATE.

SEALANT SHALL BE APPLIED AROUND THE PERIMETER OF BOLTED END CONNECTION PLATES AND HOLES.

SEALANT SHALL BE APPLIED AROUND THE PERIMETER OF ALL BEAM ENDS WHERE EXISTED IN THE DRAWINGS.

ALL STRUCTURAL STEEL SHALL BE COATED ACCORDING TO SUBSECTION 7.16 OF THE STANDARD SPECIFICATIONS. THE SHIP OF THE HANGING PROTECTION COAT SHALL BE LIGHT GRAY FEDERAL STANDARD NO. 1544.

THE CONTRACTOR SHALL INSTALL NECESSARY MEASURES TO AVOID DISCOLORATION OF HANGAR ARM STRUCTURE AND SUSPENSION CEMENT SURFACES. ALL STEEL ATTACHED TO THE STRUCTURE INCLUDING THE PROPOSED NEW HANGAR ARM STRUCTURE, REMOVAL AND INSTALL.

IF END DIAGRAMS INTERPRET THE PLACEMENT OF THE TEMPORARY SUPPORT, THEY SHALL BE REVISED AND RE-INSTALLED WITH NEW HARDWARE. (INCLUDES IN THE BEAM HANGER ASSEMBLY, REMOVAL AND INSTALL.)

MICROVINE QNT. 78020 (50112)

PROPOSED STAINLESS STEEL 4" PIN

PROPOSED NON-METALLIC WASHER

PROPOSED STAINLESS STEEL COTTER PIN

PROPOSED STAINLESS STEEL 4" PIN

PROPOSED STAINLESS STEEL 4" PIN

SECTION A-A (EXISTING)

SECTION A-A (PROPOSED)