JOINT AND HEADER NOTES

1) The elastomeric concrete header and prefomed joint seal shall be installed after the pavement has been placed.

2) Elastomeric concrete headers shall be paid for under the item "Elastomeric Concrete Header." The prefomed joint seal glands shall be paid for under the item "PREFORMED JOINT SEAL." 3) Drilling and grouting strap dowels and furnishings and installing transverse strap bars are included in the unit price for "elastomeric concrete header." 4) Dimensions "C," "D," and "E" shall be measured perpendicular to the deck and see joint selection table for values.

5) The prefomed joint seal shall be installed in accordance with the plans with the manufacturer's written instructions and as directed by the engineer.

6) Surface preparation is critical for adhesion of elastomeric concrete to the header and for adhesion of the prefomed seal within the joint opening. The minimum acceptable surface profile is #21 (grit blasting), but #50 (light abrasive blasting) is preferred. The header shall be prepared with a minimum chamfer of #1" to clean, dry, and accepted by the engineer.

8) If staged construction is required, elastomeric concrete header reinforcement shall be discontinuous at construction joints.

SECTION - NEW BRIDGE DECK

1) The elastomeric concrete header and prefomed joint seal shall be installed after the pavement has been placed.

SECTION - RECONSTRUCTED DECK END

1) The elastomeric concrete header and prefomed joint seal shall be installed after the pavement has been placed.

SECTION - ELASTOMERIC CONCRETE HEADERS AND PREFORMED JOINT SEAL

1) The elastomERIC concrete header and prefomed joint seal shall be installed after the pavement has been placed.
### JOINT SELECTION TABLE

**DESCRIPTION OF JOINT LOCATION:** ABUTMENT NO. 1

<table>
<thead>
<tr>
<th>THERMAL MOVEMENT RANGE</th>
<th>X INCHES</th>
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<tr>
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</table>

- **DECK EXPANSION JOINT**
  - SKEW = XX°
  - SPECIAL BEJS XXXX: X.XX"
  - WABO-FS FS-XXX: X.XX"
  - EMSEAL SF XXXX: X.XX"
  - V-SEAL: V-XXX: X.XX"

**DESCRIPTION OF JOINT LOCATION:** PARAPET EXPANSION JOINT

<table>
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</table>

- **SIDEWALK EXPANSION JOINT**
  - SKEW = XX°
  - SPECIAL BEJS XXXX: X.XX"
  - WABO-FS FS-XXX: X.XX"
  - EMSEAL SF XXXX: X.XX"
  - V-SEAL: V-XXX: X.XX"

**NOTE:** BRIDGE DECK GAP, G = J - 2 * (WIDTH OF SHELF)

### JOINT SELECTION TABLE

**DESCRIPTION OF JOINT LOCATION:** ABUTMENT NO. 2

<table>
<thead>
<tr>
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</table>

- **DECK EXPANSION JOINT**
  - SKEW = XX°
  - SPECIAL BEJS XXXX: X.XX"
  - WABO-FS FS-XXX: X.XX"
  - EMSEAL SF XXXX: X.XX"
  - V-SEAL: V-XXX: X.XX"

**DESCRIPTION OF JOINT LOCATION:** PARAPET EXPANSION JOINT

<table>
<thead>
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</table>

- **SIDEWALK EXPANSION JOINT**
  - SKEW = XX°
  - SPECIAL BEJS XXXX: X.XX"
  - WABO-FS FS-XXX: X.XX"
  - EMSEAL SF XXXX: X.XX"
  - V-SEAL: V-XXX: X.XX"

**NOTE:** BRIDGE DECK GAP, G = J - 2 * (WIDTH OF SHELF)

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**NOTE:**
- DECK JOINT GAP, "J", AT INSTALLATION (IN.)
- SKEW = XX°
- DECK JOINT GAP, "J", AT 110°F (IN.)
- DECK JOINT GAP, "J", MIN, AT 110°F (IN.)
- MIN. BRIDGE DECK GAP
- DECK JOINT GAP, "J", MINIMUM
- WIDTH OF SHELF (IN.)
- DEPTH OF SHELF (IN.)
- THERMAL MOVEMENT RANGE
**PARAPET JOINT PLANS, SECTIONS AND DETAILS**

**CONTRACT NO.**

**DRAWING NO.**

**SHEET NO.**

**DATE** 10/23/2020

**REVISION DESCRIPTION**

**DEPARTMENT OF TRANSPORTATION**

**STATE OF CONNECTICUT**

**OFFICE OF ENGINEERING**

**PROJECT TITLE**

**TOWN**

**DRAWING TITLE**

**SCALE: 1" = 1'-0"**

**SCALE: 6" = 1'-0"**

**SCALE AS NOTED**

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**PREFORMED JOINT SEAL SECTION IN PARAPET**

**SCALE: 3" = 1'-0"**

**SECTION AT CURB**

**SCALE: 3" = 1'-0"**

**SECTION THROUGH PARAPET**

**SCALE: 1" = 1'-0"**

**SHLF CONSTRUCTION IN DECK AND PARAPET JOINT**

**SCALE: 1" = 1'-0"**

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**APPLICATION PRIORITIES**

**APPLY PENETRATING SEALER PROTECTIVE COMPOUND PRIOR TO INSTALLATION OF PREFORMED SILICONE GLAND (TYP.)**

**APPLY PENETRATING SEALER PROTECTIVE COMPOUND PRIOR TO INSTALLATION OF PREFORMED SILICONE JOINT SEALING SYSTEM**

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**FILING DATE**

**10/23/2020**

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**SPECIFICATIONS**

- **DECK JOINT GAP**
- **JOINT SEALING SYSTEM**
- **TOP OF PREFORMED SILICONE JOINT SEAL**
- **LAP PARAPET JOINT SEAL OVER DECK JOINT SEAL**

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**NOTES**

- **PREFORMED SILICONE JOINT SEALING SYSTEM**
- **SECTION AT CURB**
- **SECTION THROUGH PARAPET**
- **SHLF CONSTRUCTION IN DECK AND PARAPET JOINT**
**SIDEWALK JOINT PLANS, SECTIONS AND DETAILS**

**SECTION - SIDEWALK EXPANSION JOINT**

- **DECK JOINT GAP**
- **TOP OF PARAPET**
- **FOAM SUPPORTED SILICONE GLAND**
- **JOINT SEW:** DEPTH OF DECK JOINT SEAL GLAND
- **SHIELD WIDTH TO MATCH DECK JOINT SEAL WIDTH**
- **INSTALL FOAM SUPPORTED SILICONE GLAND IN DECK, SIDEWALK AND PARAPET JOINT. GLAND TO BE AS SPECIFIED IN "JOINT SELECTION TABLE." THE DECK JOINT SEAL GLAND SHALL BE Joined WITH THE GLAND IN THE DECK JOINT TO PROVIDE A SINGLE CONTINUOUS GLAND.
- **EXTEND FOAM SUPPORTED SILICONE JOINT SEAL GLAND INTO SIDEWALK AND TURN GLAND 90° UP SIDEWALK CURB.**

**SECTION THROUGH PARAPET WITH SIDEWALK**

- **DECK JOINT GAP**
- **BRIDGE DECK GAP**
- **FOAM SUPPORTED SILICONE JOINT SEAL GLAND**
- **GLAND SHALL BE INSTALLED ACROSS DECK JOINT AND MAKE CONTINUOUS DECK JOINT SEAL GLAND.**
- **EPoxy PENETRATING SEALER PROTECTIVE COMPOUND PRIOR TO INSTALLATION OF PREFORMED SILICONE GLAND.**
- **TOP OF ELASTOMERIC CONCRETE HEADER**
- **INSTALL FOAM SUPPORTED SILICONE JOINT SEAL GLAND INTO SIDEWALK AND TURN GLAND 90° UP SIDEWALK CURB.**

**SECTION THROUGH PARAPET - GAP DIAGRAM**

- **DECK JOINT GAP**
- **BRIDGE DECK GAP**
- **FOAM SUPPORTED SILICONE JOINT SEAL GLAND**
- **EPoxy PENETRATING SEALER PROTECTIVE COMPOUND PRIOR TO INSTALLATION OF PREFORMED SILICONE GLAND.**
- **TOP OF ELASTOMERIC CONCRETE HEADER**
- **INSTALL FOAM SUPPORTED SILICONE JOINT SEAL GLAND INTO SIDEWALK AND TURN GLAND 90° UP SIDEWALK CURB.**
Proposed Sequence for Deck Preparation for Installation of Elastomeric Concrete Headers and Preformed Joint Seal

1) A temporary backer rod may be used in lieu of a temporary binding plate if the bridge deck gap width is less than 3 inches.

2) Deteriorated concrete shall be removed to sound concrete. Should reinforcement be encountered during concrete removal, concrete shall be removed to a minimum of 1 inch beyond reinforcement.

**Steps:**
- **New Bridge Deck**: Construct new bridge deck and shelf, and apply overlay.
- **Remove Overlay for Construction of Headers**: Remove overlay for construction of headers.
- **Reconstruct Deck End and Restore Overlay**: Reconstruct deck end and restore overlay.
- **Remove Overlay for Construction of Headers**: Remove overlay for construction of headers.
- **Reconstructed Bridge Deck End**: Reconstructed bridge deck end.
PREFORMED SILICONE JOINT SEALING SYSTEM DESIGNER NOTES

1) THERMAL MOVEMENT RANGES SHOULD BE MAPPED OUT TO THE DETAILER ALONG WITH THE SPECIFIC DECK AND CONTRACTS FOR BRIDGES ON A TANGENT ROADWAY ALIGNMENT, THE MOVEMENT IS IN THE DIRECTION OF TRAVEL FOR BRIDGES ON A CURVE. THE MOVEMENT IS ALONG A CURVE REFER TO THE END OF THE SPAN EXPERIENCING MOVEMENT.

2) SHOULDED THE PARAPET SHAPE COME FROM THE DETAIL PRESENTED, THE DETAIL MAY BE MODIFIED TO BETTER REPRESENT SITE CONDITIONS.

3) THE SIDEWALK DETAIL MAY BE MODIFIED TO ACCOMMODATE SAFETY WALKS.

4) THE DESIGNER SHALL PROVIDE A JOINT SELECTION TABLE UPON REQUEST AND COMPLETE THE TABLE FOR EVERY JOINT LOCATION SHOWN IN THE DETAIL. NO SINGLE TABLE SHOULD BE USED FOR EXISTING JOINTS. ELIMINATE THE PORTION OF THE TABLE.

5) THE DESIGNER SHALL SELECT GLANDS FROM THREE MANUFACTURERS WHERE POSSIBLE FOR INCLUSION IN THE TABLE. A PROPRIETARY PRODUCT APPROVAL IS REQUIRED WHEN ONLY ONE OR TWO PRODUCTS ARE SPECIFIED.

6) THE DESIGNER SHALL SELECT A SHELF WIDTH THAT IS AT LEAST HALF OF THE MANUFACTURER'S RECOMMENDED MINIMUM GAP WIDTH.

7) TO ALLOW REPLACEMENT JOINTS TO BE BODY COMPREHENSIVELY, THE DESIGNER SHALL CONSIDER THE MINIMUM SHELF WIDTH THAT SATISFIES MINIMUM REQUIREMENTS FOR ALL PRODUCTS THAT WILL BE USED FOR THE SPECIFIED GAPS.

8) THE DESIGNER SHALL ASSUME THAT THE BRIDGE DECK GAP WILL CLOSE COMPLETELY, AND SET THE DECK JOINT GAP AND SHELF WIDTH ACCORDINGLY.

9) THE SHELF WIDTH MAY BE INCREASED AT EXISTING DECK ENDS TO ENSURE THAT THE DECK JOINT GAP SATISFIES THE MANUFACTURER'S RECOMMENDED GAP AT INSTALLATION.

10) IF EXISTING DECK GAP IS INADEQUATE AND MAY CAUSE CRUSHING OF DECK ENDS, THE DESIGNER SHOULD CONSIDER RECONSTRUCTION OF ENTIRE DECK END.

11) SHOULDED THE BRIDGE DECK GAP BE KEPT IN AN INADEQUATE, THE DESIGNER SHOULD PROVIDE DETAILS OF HOW TO RECONSTRUCT THE DECK ENDS AS NEEDED.

12) THE BRIDGE DECK GAP, "G", IS ASSUMED TO BE 0" TO ACCOUNT FOR CLOSURE OF THE BRIDGE DECK GAP AND SHELF WIDTH ACCORDINGLY.

13) THE MINIMUM SHELF WIDTH IS SET AT HALF OF THE MANUFACTURER'S RECOMMENDED GAP WIDTH.

14) THE DESIGNER SHALL SELECT A SHELF WIDTH THAT IS AT LEAST HALF OF THE MANUFACTURER'S RECOMMENDED MINIMUM GAP WIDTH.

15) THE DESIGNER SHALL SELECT A SHELF WIDTH THAT IS AT LEAST HALF OF THE MANUFACTURER'S RECOMMENDED GAP WIDTH.

16) THE DESIGNER SHALL SELECT A SHELF WIDTH THAT IS AT LEAST HALF OF THE MANUFACTURER'S MINIMUM INSTALLATION GAP SIZE.

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29) THE DESIGNER SHALL SELECT A SHELF WIDTH THAT IS AT LEAST HALF OF THE MANUFACTURER'S MINIMUM INSTALLATION GAP SIZE.

30) THE DESIGNER SHALL SELECT A SHELF WIDTH THAT IS AT LEAST

THESE NOTES ARE NOT INTENDED TO BE PLACED ON THE CONTRACT PLANS.