DISCLAIMER:

The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by TxDOT for whatever purpose. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

This standard does not provide for changes in roadway cross-slopes within the structure.

Based on theoretical beam camber, dead load deflections of two-course surface treatment and 2" ACP overlay, and a constant grade.

Deflections shown are due to two-course surface treatment and 2 ACP overlay only. Deflections shown are theoretical and actual dimension may be less. Adjust based on field verifications.

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Fabricator must adjust beam lengths for beam slopes as required.

Seal and center 1” diameter smooth lateral connector rod (LCR) in the bottom of the flange connection “Vee” prior to welding to minimize grout leakage. Check where necessary between connectors.

Use steel surfaces in contact with grout with a 3-component, water-based, epoxy-modified cementitious grout or mortar meeting the requirements of Item 4675 “Cementitious Grouts and Mortars for Miscellaneous Applications” and is capable of a compressive strength of 4,000 psi after 7 days of curing at anticipated temperatures. Surface preparation, mixing and consistency of grout must be performed in accordance with manufacturer’s instructions. Grouts with admixtures are not allowed. Cure 3 days, minimum prior to placing surface treatment and overlay. Apply Shop drum grout so it is at least 5% of joint length of beam.

Lateral connector rods are submersible to other permanent bedding or debris.

Provide joint for roadway width and/or between two or more decks on the superstructure.

When using the self-adhesive type fabric underseal, pressure roll fabric underseal to improve adhesion. Apply binder to fabric joint underseal as required by the manufacturer’s installation instructions.

Apply non-shrink cementitious grout. Fill shear keys with grout that meets the requirements of Item 4675 “Cementitious Grouts and Mortars for Miscellaneous Applications”. Use forming material between lateral connectors. Maintain a uniform grout depth along length of beams.

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Cure 3 days, minimum, prior to placing surface treatment and overlay.

After the specified cure times for the grout is reached, apply fabric underseal to the limits shown. Centre fabric over joint. Fabric joint underseal will be shown. Use fabric underseal meeting the requirements of Item 356, “Fabric Underseal”.

Fill shear keys with grout that meets the requirements of Item 4675 “Cementitious Grouts and Mortars for Miscellaneous Applications” and is capable of a compressive strength of 4,000 psi after 7 days of curing at anticipated temperatures. Surface preparation, mixing and consistency of grout must be performed in accordance with manufacturer’s instructions. Grouts with admixtures are not allowed. Cure 3 days, minimum prior to placing surface treatment and overlay. Apply Shop drum grout so it is at least 5% of joint length of beam.

Fabric joint underseal will be shown. Use fabric underseal meeting the requirements of Item 356, “Fabric Underseal”.

Do not apply seal to beams while welding all connector rods. No vehicles are allowed on the span until shear key grout has cured 72 hours.

After the specified cure times for the grout is reached, apply fabric underseal to the limits shown. Centre fabric over joint. Fabric joint underseal will be shown. Use fabric underseal meeting the requirements of Item 356, “Fabric Underseal”.

Provide joint for roadway width and/or between two or more decks on the superstructure.

When using the self-adhesive type fabric underseal, pressure roll fabric underseal to improve adhesion. Apply binder to fabric joint underseal as required by the manufacturer’s installation instructions.

Tuck fabric 1” into joint opening. Mark location of centerline of joint on curb or barrier instructions.

After the specified cure times for the grout is reached, apply fabric underseal to the limits shown.Centre fabric over joint. Fabric joint underseal will be shown. Use fabric underseal meeting the requirements of Item 356, “Fabric Underseal”.

Fill shear keys with grout that meets the requirements of Item 4675 “Cementitious Grouts and Mortars for Miscellaneous Applications”. Use forming material between lateral connectors. Maintain a uniform grout depth along length of beams.

Cure 3 days, minimum, prior to placing surface treatment and overlay.

After the specified cure times for the grout is reached, apply fabric underseal to the limits shown. Centre fabric over joint. Fabric joint underseal will be shown. Use fabric underseal meeting the requirements of Item 356, “Fabric Underseal”.

Fill shear keys with grout that meets the requirements of Item 4675 “Cementitious Grouts and Mortars for Miscellaneous Applications”. Use forming material between lateral connectors. Maintain a uniform grout depth along length of beams.

Cure 3 days, minimum, prior to placing surface treatment and overlay.