

KDOT Graphics Certified 05-28-2014 Sheet No. CWS05

GENERAL NOTES

YEAR SHEET NO. TOTAL SHEETS STATE PROJECT NO. 2014 CWS07 29 435-46 KA-1002-04 REVISED PLANS

GEOSYNTHETICS: Use material that complies with Contract Specification Section 1710 Class 2 subsurface drainage fabric. Place the Class 2 subsurface drainage fabric on graded and compacted material shaped as shown. Allow for enough material so that the top can be overlapped and the end folded to completely enclose the aggregate drain. Place the perforated drain pipe and couple to non-perforated pipe as shown. Allow the non-perforated pipe to pass through a hole carefully cut in fabric. Place aggregate within fabric to just leave the top of the pipe visible. Verify the slope of the pipe, that it is not damaged or displaced and that the couplers are firmly coupled. Continue to back fill to the elevation

AGGREGATE: Use aggregates that complies with Contract Specifications for SB-1. SB-2 or SB-3.

BASE COURSE REINFORCEMENT: Use "Base Course Reinforcement" that complies with Contract Specification Section 1710 or approved material. Place this material in uniform layers without gaps or sags per the manufacturer's recommendations.

GEOFOAM: Use "Geofoam" that complies with Contract Specification. 07-2005 latest revision or approved material. Bond this material to the back wall protection using materials recommended by the manufacturer.

SOIL CAP: The soil will have a Unified Soil Classification of CL or ML according to ASTM D2487. Compact to Type A, MR-90.

PIPE: Place perforated pipe within the limits and use non-perforated pipe outside the limits of the Abutment Aggregate Drain.

ABUTMENT AGGREGATE DRAIN: Backfill, compact & grade the cohesive soil to the limits shown. Place the bridge backwall protection, geofoam, geotextile, perforated pipe, alternating layers of aggregate and base course reinforcement as shown. Place the outlet pipe, the CMP, and the backfill. Guide post and coarse aggregate are not required if the CMP empties onto Slope Protection. Enclose the entire Abutment Aggregate Drain with the geotextile

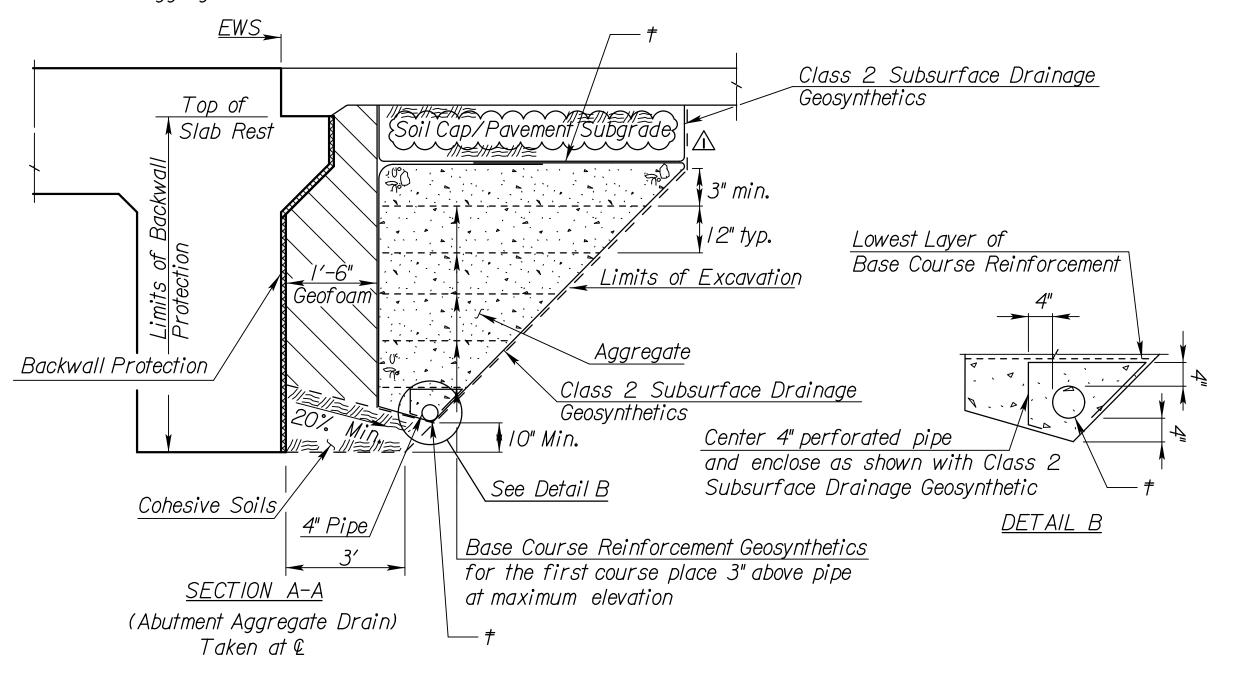
BRIDGE BACKWALL PROTECTION SYSTEM: Apply a non coal-tar Bridge Backwall Protective System to the approach side of the abutments and the wings in accordance with Contract Specifications and the manufacturer's recommendations. Cover the abutments and wings to the limits shown on the details. Repair any damage done.

Compact the abutment backfill. See the Contract Specifications.

Perforated pipe and non-perforated outlet pipe shall be corrugated polyethylene tubing conforming to the Contract Specifications.

Fit the CMP end section with 1/4" galvanized mesh screen to prevent the entrance of rodents. Seal the joint between the outlet pipe and the end section with a joint sealer. Place Coarse aggregate at the outlet end as shown.

COHESIVE SOILS: Grade the bottom surface of the excavated area to drain as shown. Backfill this area with a cohesive type of soil. The soil will have a Unified Soil Classification of CL, CH, ML or MH according to ASTM D2487. Classification System with a minimum plasticity index of 13. Compact the material to Type A, MR-90 specifications. If the plasticity index cannot be met add and mix Bentonite, to the soil prior to placement and compaction so that the PI≥ 13.



† When MSE Wall runs in front or along side of △ △ Abutment then refer to sheet CWS29, CWS29.001 & CWS29.002 for placing geomembrane and drainage for Aggregate Drain System.

KANSAS DEPARTMENT OF TRANSPORTATION ABUTMENT AGGREGATE DRAIN-U-TYPE ABUTMENT PIN: MSOO Johnson Co. 🖫

Released for Construction Not to Scale Date: 12/10/2014 GIC Version 1.0 RFC'd by: Document Control
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NDC097 - Revised Detail & Note CDH CMI 12/2/2014 12:52:08 -06'00' LIC. NO. DATE NO. DATE BY APP'D NAME **REVISIONS**

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Sheet No. CWS07

CADD CK.

GATEWAY INTERCHANGE CONSTRUCTORS

paint to the top 12" of the posts.

enamel coating. Apply one coat of International Orange

Symm.about €

(except drain pipe)

1111

-1 +1 +1

7'-0" at 3.0 lbs/ft. flanged channel Wood Guide Post Option (6" Ø x 6'-0") # Nominal dimension.

Note: The I'-O" lap and joint sealer may

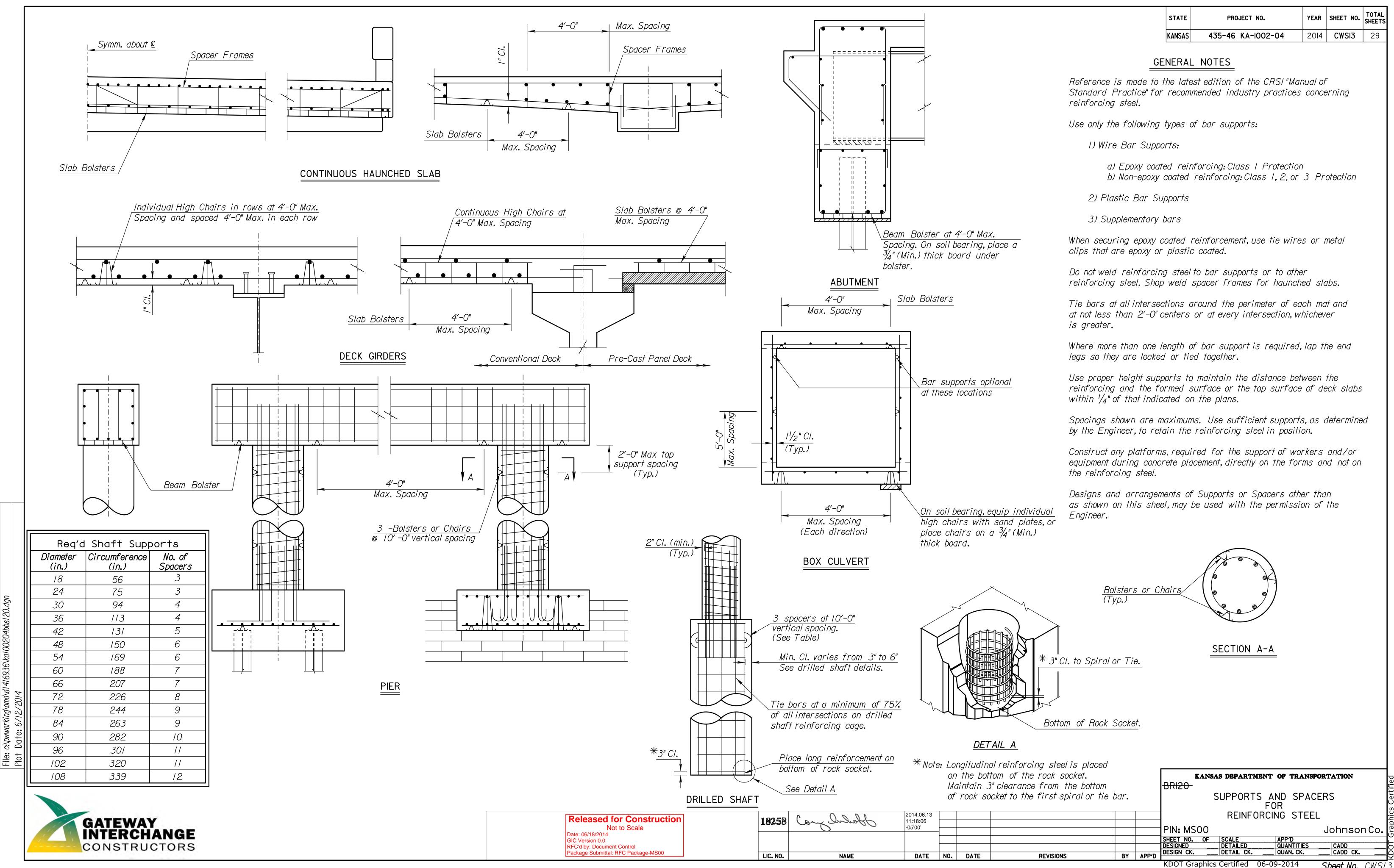
4" round tubing.

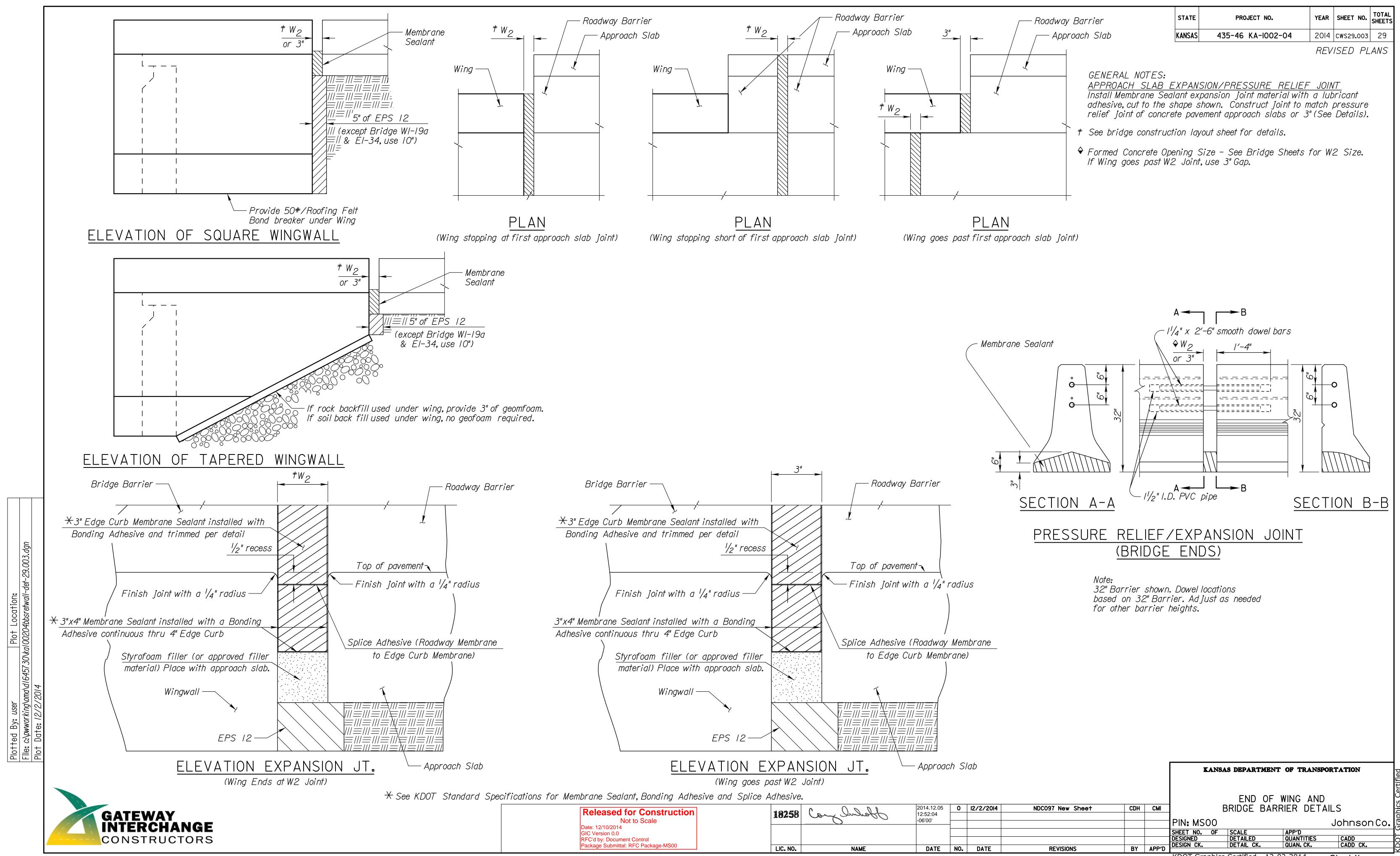
be replaced by a reducing coupler

at the junction of the CMP and the

6" _ | | 3'-0" | Toe of slope or

as shown on





KDOT Graphics Certified 12-02-2014 Sheet No. cws29.003