



NOTE: ROADWAY SHOWN WITH A CROWN AND FIELD SPLICE AT CENTERLINE ROADWAY. REFER TO DECK JOINT ELEVATION IN SITE SPECIFIC DRAWINGS FOR CROWN DETAILS.

16 # (5/8") TYPE 304 STAINLESS STEEL HEX HEAD BOLT COUNTERSUNK INTO 50 RECESS. INSTALL USING "KOP-R-KOTE" OR "NEVER SEEZ" ON THREADS AND UNDER HEADS. SNUG TIGHTEN BOLTS IN SHOP FOR TRANSPORTATION. FIELD TORQUE BOLTS TO 140 N·m (100 ft·lbs) AFTER STRIP SEALS INSTALLED.

SHOP PREPARE EDGES FOR FIELD WELD. WELD TOP OF EXTRUSION AND THE BACKSIDE EXPOSED TO CONCRETE. THE WELD SHALL HAVE A MIN. 90% PENETRATION FROM OUTSIDE. AREA IN CONTACT WITH STRIP SEAL SHALL BE SMOOTH AND SEALED WITH AN APPROVED CAULKING.

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**GENERAL NOTES**

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- REFER TO SITE SPECIFIC DRAWINGS FOR DIMENSIONS "A" THROUGH "J" AND "X" AND SITE SPECIFIC DETAILS NOT SHOWN ON THIS DRAWING.
- MAXIMUM GAP "X" SHALL NOT EXCEED 115 mm.
- ALL STEEL SHALL CONFORM TO THE REQUIREMENTS OF CAN3- G40.21M-300W OR ASTM A36.

**MATERIALS AND FABRICATION**

- CONTINUOUS SEALING SYSTEM TO BE ONE OF THE FOLLOWING TYPES:
  - ELASTOMETAL "EFE400" WITH TYPE "M" EXTRUSION
  - HONEL GSH 141 "W-DE" SYSTEM (SHOWN)
  - DS BROWN "0400" SEAL WITH TYPE SSCM EXTRUSION
  - AJ BRAUN BI-100 CELLULAR SYSTEM
  - RJ SERIES STRIP SEAL WITH TYPE RUM EXTRUSION.
  - HEXEL FYFE "FPS57" SEAL WITH TYPE C EXTRUSION
- MULTI-WEB STRIP SEAL SHALL BE NEOPRENE, NATURAL RUBBER OR APPROVED EQUIVALENT.
- ALL REQUIREMENTS OF THE CURRENT SPECIFICATION FOR BRIDGE CONSTRUCTION (SECTION 6) SHALL BE MET.
- METAL EXTRUSIONS SHALL BE SUPPLIED IN TWO PIECES UNLESS NOTED OTHERWISE, STRIP SEAL SHALL BE SUPPLIED IN ONE CONTINUOUS LENGTH.
- BOLTED CURB COVER PLATES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION. ALL OTHER METAL PARTS EXCEPT ERECTION ANGLES, SPACER PLATES AND STAINLESS STEEL BOLTS SHALL BE HOT DIP GALVANIZED OR ZINC METALLIZED AFTER FABRICATION.
- ALL GALVANIZING SHALL MEET ASTM SPEC A123 OR A153 AS APPLICABLE.
- ZINC METALLIZING SHALL BE 180 MICRONS THICK AND IN ACCORDANCE WITH CSA G-189.
- ALL WELDING SHALL CONFORM TO CURRENT AWS SPECIFICATION D1.5.
- SHOP ASSEMBLE FOR INSPECTION IN A RELAXED CONDITION WITH ERECTION ANGLES REMOVED. APPROVAL OF ASSEMBLY REQUIRED PRIOR TO APPLICATION OF ERECTION ANGLES.
- PRESET GAP IN SHOP FOR A TEMPERATURE OF +15°C.
- JOINT SHALL BE TRANSPORTED WITH ERECTION ANGLES ATTACHED AND THE EXTRUSION CAVITY SEALED WITH TAPE.

**JOINT INSTALLATION**

- ERECT ASSEMBLY.
- SECURE ROADWAY PORTION OF ASSEMBLY TO GIRDERS AND BACKWALL BY WELDING.
- MAINTAIN THE DECK JOINTS' PRESET GAP UNLESS ADVISED TO RESET GAP BY THE ENGINEER.
- THE ATTACHMENT SHALL BE STRONG ENOUGH TO MAINTAIN THE CORRECT GAP, GRADE AND ALIGNMENT OF THE ASSEMBLY UNTIL AFTER CONCRETE PLACEMENT. ADDITIONAL SUPPORTS MAY BE REQUIRED TO ENSURE THESE CONDITIONS ARE MET.
- REMOVE ERECTION ANGLES IMMEDIATELY AFTER ASSEMBLY IS SECURELY ATTACHED TO PREVENT DAMAGE DUE TO TEMPERATURE VARIATION.
- PLACE CONCRETE AS SPECIFIED IN BLOCKOUTS AS SHOWN.
- REMOVE ALL FORMWORK AND CLEAN EXCESS CONCRETE AND DEBRIS FROM ASSEMBLY.
- INSTALL THE CURB PORTIONS OF THE DECK JOINT ASSEMBLY AND PLACE CONCRETE AS SPECIFIED. REMOVE CURB ASSEMBLY ERECTION ANGLES IMMEDIATELY AFTER CONCRETE IS PLACED.
- APPLY SILANE SEALER TO EXPOSED CONCRETE SURFACES.
- FIELD WELDED SPLICE SHALL BE AS PER SECTION 13 OF THE BRIDGE CONSTRUCTION SPECIFICATION.

**SEAL INSTALLATION**

- REMOVE CURB COVER PLATES WHEN JOINT IS READY FOR SEAL INSTALLATION. SUPPLIER SHALL INSTALL SEAL AND TORQUE CURB COVER PLATE; BOLT TO 3 TURN FROM FULL TIGHT CONDITION.

**SUPERSEDED**  
 34 5-1493 (99-10-02) REV 7

REV	DATE	REVISIONS	BY
97-12-23		GENERAL UPDATE	
97-01-10		EXTRUSION WELD, CURB PLATE WIDTH	RY
96-03-15		GENERAL NOTES	RJR
96-01-03		SEALING SYSTEM ADDED	RJR
95-01-25		GENERAL	DBS
94-01-15		REDRAWN FROM S-1493-92 REV 2	DBS

APPROVED  
 ORIGINAL DRAWING APPROVED BY  
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 EXECUTIVE DIRECTOR  
 BRIDGE ENGINEERING  
 JAN 24, 1994

Alberta TRANSPORTATION AND UTILITIES  
 TECHNICAL STANDARDS BRANCH  
**TYPE I STRIP SEAL  
 DECK JOINT**

DESIGNED	DRAWN	DATE	CHECKED	DATE	STREAM	LOCATION	HIGHWAY	FILE	SHEET	DRAWING
DBS	WS	94-01-15	WP	94-01-24					OF	S-1493-94

NOTE: THIS DRAWING HAS BEEN REDUCED TO 22"x34" DO NOT SCALE