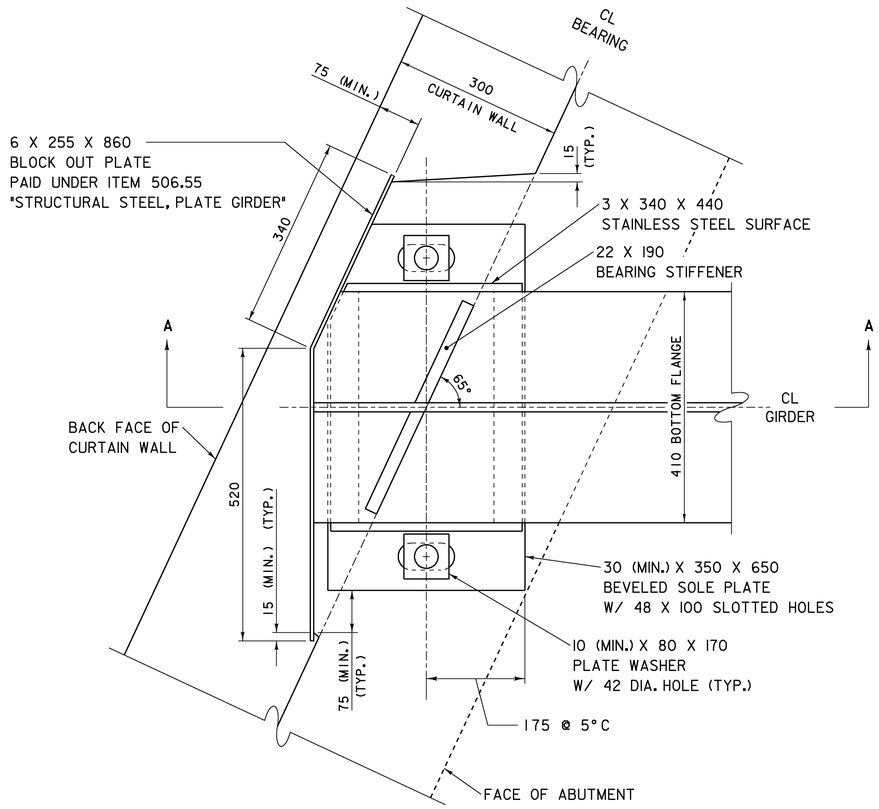
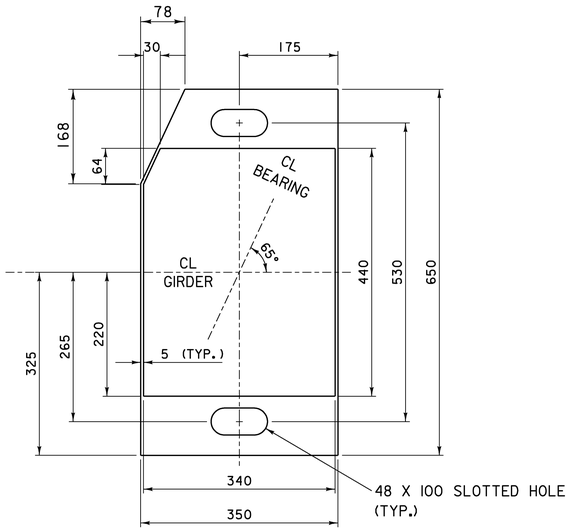
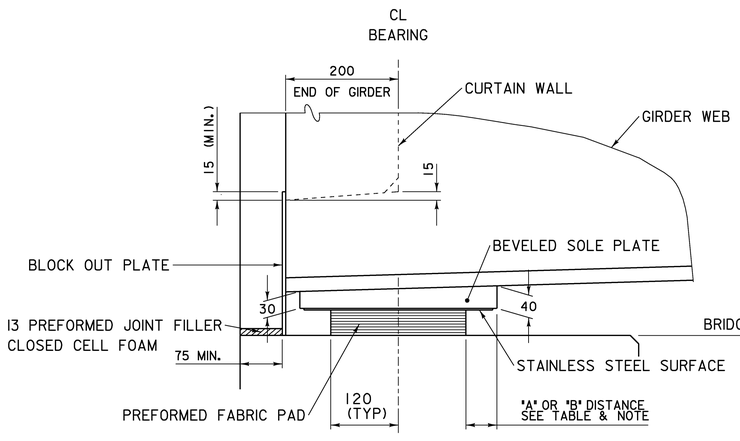


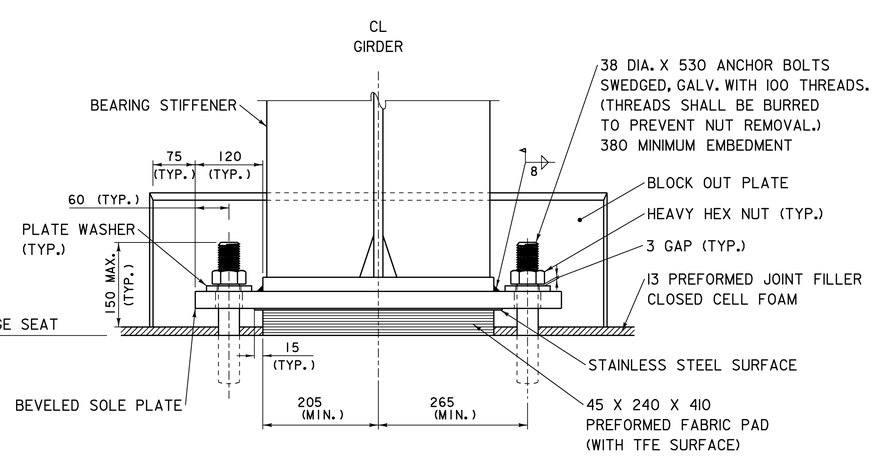
PLAN VIEW



SOLE PLATE & STAINLESS STEEL SURFACE DETAIL



SECTION A-A



FRONT ELEVATION

EXPANSION BEARING @ ABUTMENT NO. 1

0 0.25 0.5

SCALE = 1:5

ABUTMENT BEARING NOTES

1. BEARINGS SHALL CONFORM TO THE APPLICABLE PROVISIONS OF SECTIONS 531 AND 731.
2. BEARINGS AT ABUTMENTS SHALL BE PAID FOR UNDER ITEM 531.10 "BEARING DEVICE ASSEMBLY, PREFORMED FABRIC PAD".
3. FABRICATION DRAWINGS SHALL BE SUBMITTED AS PER SUBSECTION 531.03. THE SUBMITTAL SHALL INCLUDE ASSOCIATED WELDING AND BONDING PROCEDURES.
4. DESIGN CRITERIA:
   - A. DESIGN FABRIC PAD TO CONCRETE PRESSURE: 7 MPa MAXIMUM
   - B. DESIGN ROTATION: 0.015 RADIANS MINIMUM
   - C. DESIGN VERTICAL LOAD: 672 kN
   - D. DESIGN HORIZONTAL LOAD: MINIMUM 10% OF VERTICAL LOAD
5. THE "B" DISTANCE IS THE FINAL SETTING FOR THE BEARING PAD AFTER THE CONCRETE SLAB, CURB, PAVEMENT, AND BRIDGE RAIL HAVE BEEN PLACED. THE "A" DISTANCE IS FOR SETTING THE BEARING AFTER THE STRUCTURAL STEEL IS ERECTED AND BEFORE THE CONCRETE DECK IS POURED. THE DIFFERENCE IS THE THEORETICAL ELONGATION OF THE BOTTOM FLANGE DUE TO DEAD LOAD DEFLECTION. THE FINAL "B" DISTANCE SHOWN IN THE TABLE MUST BE ATTAINED WITHIN 3 mm.
6. THE CONCRETE SURFACE UNDER BEARING DEVICES SHALL BE LEVEL.
7. ANCHOR BOLTS SHALL HAVE A MINIMUM 380 mm EMBEDMENT INTO THE CONCRETE AND SHALL CONFORM TO SUBSECTION 714.08. IF ANCHORBOLTS ARE NOT CAST INTO CONCRETE, DRILLED HOLES SHALL ME A MINIMUM OF 25mm DIAMETER LARGER THAN BOLT DIAMETER.
8. ALL BEARING DEVICES SHALL BE GALVANIZED OR METALIZED AS PER SUBSECTION 506.15 AND 531.04 (b). IF THE BEARINGS ARE METALIZED, THEY SHALL BE SEALED WITH AN APPROVED SEALER AS SPECIFIED IN SUBSECTION 506.15. AREAS OF GALVANIZING OR METALIZING DAMAGED BY FIELD WELDING OR HANDLING SHALL BE REPAIRED IN CONFORMANCE WITH SECTION 513.
9. ALL ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED. ALL WASHERS SHALL BE 10 mm PLATE (MINIMUM). PAYMENT FOR ANCHOR BOLTS, NUTS, WASHERS, AND THEIR INSTALLATIONS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 531.10, "BEARING DEVICE ASSEMBLY, PREFORMED FABRIC PAD".

TEMPERATURE SETTING TABLE

	TEMP.		"B" DIST.	"A" DIST.
	-13°F	-25°C	64	78
	5°F	-15°C	61	75
	23°F	-5°C	58	72
*	41°F	5°C	55	69
	59°F	15°C	52	66
	77°F	25°C	49	63
	95°F	35°C	46	60
	113°F	45°C	43	57

* DENOTES THEORETICAL NEUTRAL POSITION

SUPERSTRUCTURE BEARING DETAILS 1

PROJECT NAME: LINCOLN
PROJECT NUMBER: BRO 1445(25)

FILE NAME: s96J266str.dgn
PROJECT LEADER: R. WHITCOMB
DESIGNED BY: S. SCRIBNER
SUPERSTRUCTURE BEARING DETAILS 1

PLOT DATE: 03-FEB-2009
DRAWN BY: C. MOONEY
CHECKED BY: R. WHITCOMB
SHEET 34 OF 58