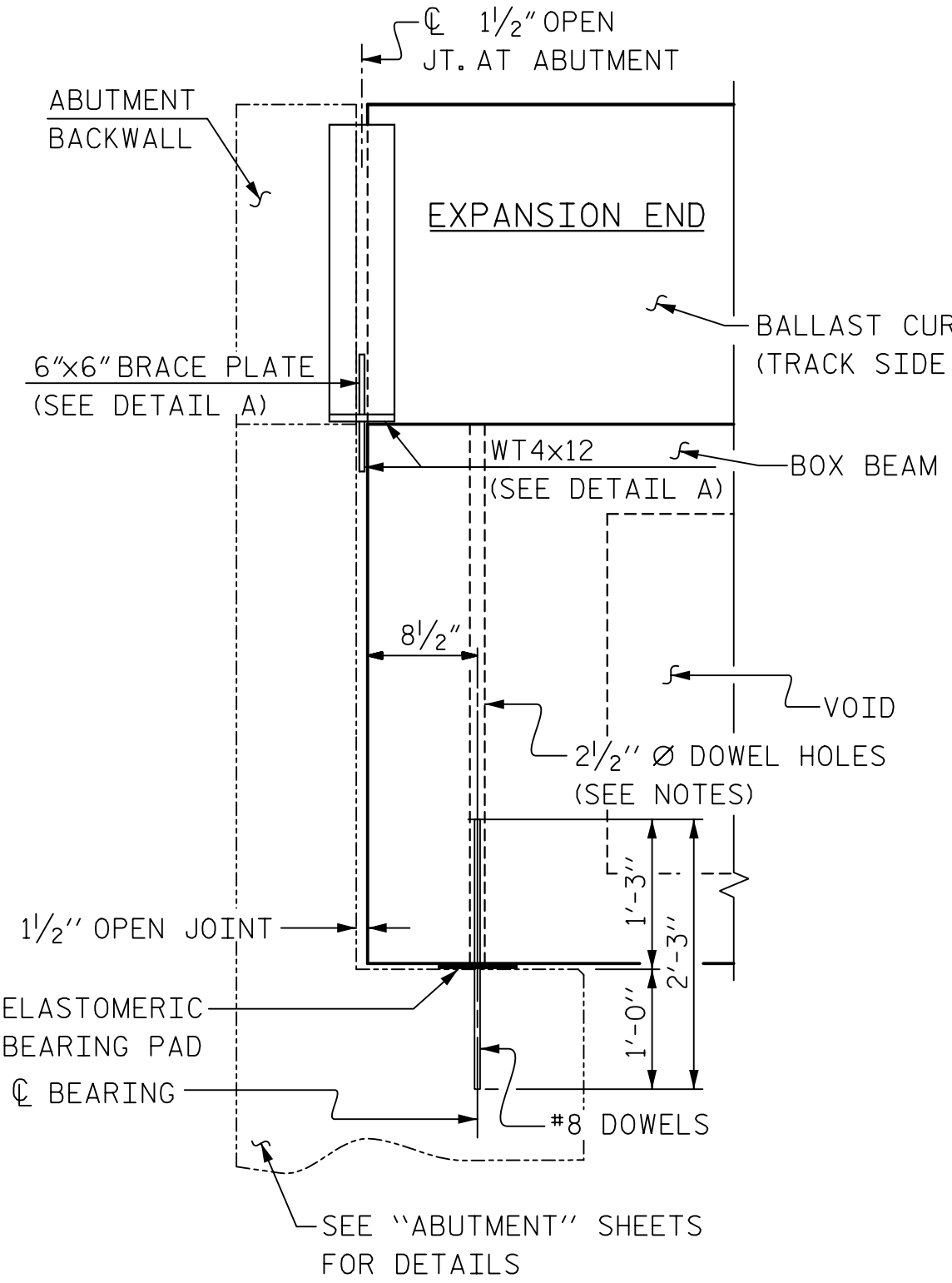


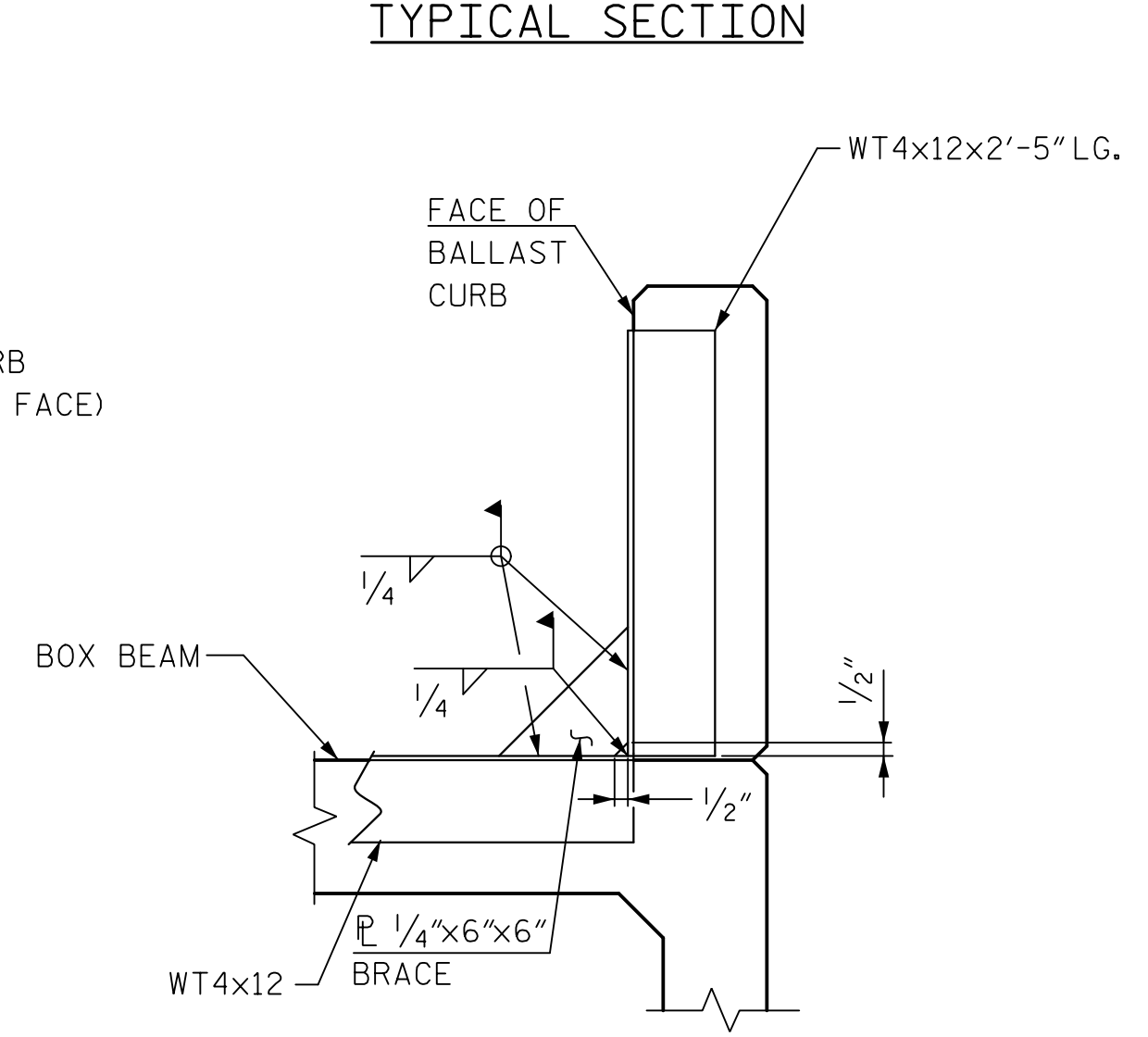
HALF SECTION AT VOID

HALF SECTION AT DIAPHRAGM

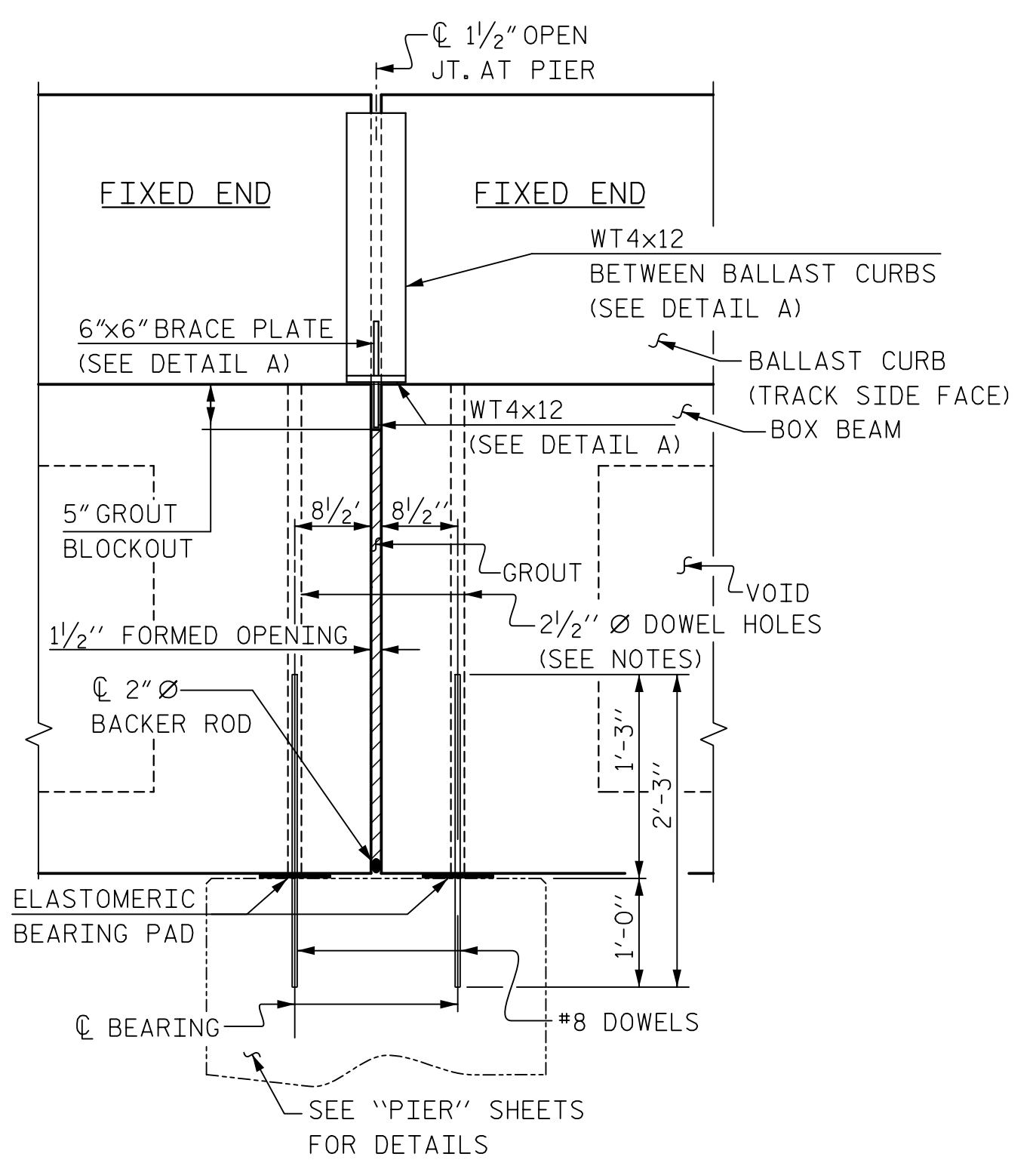
TYPICAL SECTION



SECTION AT ABUTMENT



DETAIL A



SECTION AT PIER

NOTES:

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO ASTM SPECIFICATION A416 (AASHTO M203) EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. INITIAL PRESTRESSING FORCE IS 31.0 KIPS PER 1/2" Ø STRAND.

ALL REINFORCING STEEL CAST WITH THE BOX BEAM SECTIONS SHALL CONFORM TO CURRENT ASTM SPECIFICATION A615, GRADE 60.

RECESSES FOR TRANSVERSE STRANDS SHALL BE GROUTED AFTER THE TENSIONING OF THE STRANDS.

THE 2¹/₂" Ø DOWEL HOLES AT FIXED ENDS OF BOX BEAM SECTIONS SHALL BE FILLED WITH NON-SHRINK GROUT. THE 2¹/₂" Ø DOWEL HOLES AT EXPANSION ENDS OF BOX BEAM SECTIONS SHALL BE FILLED WITH JOINT SEALER MATERIAL TO 1/2" ABOVE THE TOP OF DOWELS AND THEN FILLED WITH GROUT.

THE JOINT SEALER MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF TYPE SL LOW MODULUS SILICONE SEALANT. THE 2" Ø BACKER ROD SHALL CONFORM TO THE REQUIREMENTS OF TYPE M BOND BREAKER. SEE SECTION 1028 OF THE STANDARD SPECIFICATIONS.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE BOX BEAM UNIT SHALL BE DONE WHEN THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 5,000 PSI.

PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE BOX BEAM UNIT ENDS AND COATED WITH ASPHALT MASTIC.

THE LOCATION OF THE BOX VOID DRAINS MAY BE SHIFTED SLIGHTLY WHERE NECESSARY TO CLEAR PRESTRESSING STRANDS OR TRANSVERSE REINFORCING STEEL.

CURB CONCRETE SHALL BE CAST-IN-PLACE CONCRETE (5,000 PSI).

CURBS ARE NOT TO BE CAST ON THE GIRDERS UNTIL AFTER RELEASE OF PRESTRESSING FORCE.

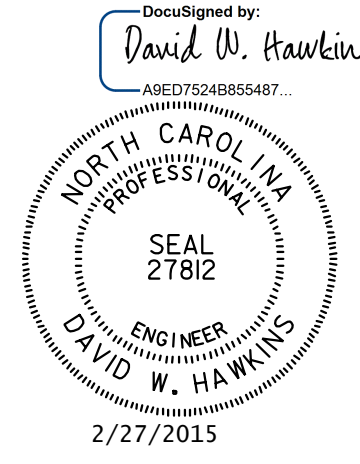
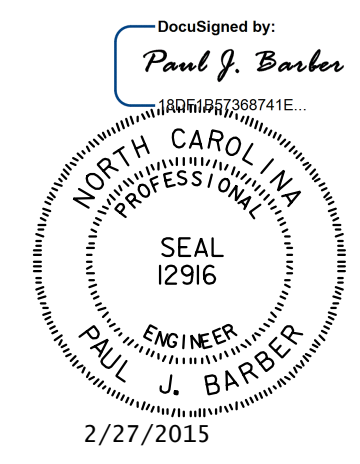
FOR HANDRAIL DETAILS, SEE "BOX BEAM SUMMARY AND HANDRAIL DETAILS" SHEET.

WT MEMBERS AND BRACE PLATE SHALL BE ASTM A36 STEEL AND SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. PRIOR TO WELDING, GRIND THE GALVANIZED SURFACE OF THE WT MEMBER AND BRACE PLATE THAT ARE TO BE WELDED. AFTER WELDING, DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

ALL CONCRETE IN PRECAST BOXES SHALL BE PER SECTION 1078 OF THE NCDOT STANDARD SPECIFICATIONS. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 7,000 PSI.

THE COST OF THE DIAPHRAGM POST-TENSIONING, JOINT SEALER, GROUT, BACKER ROD, ASPHALT MASTIC, AND WT 4x12 WITH BRACE PLATES SHALL BE INCLUDED IN THE PRICE OF THE 4'-0" x 4'-6" PRESTRESSED BOX GIRDER.

PROJECT NO. P-4900A
ROBESON COUNTY
 STATION: POS 22+07.07 -L-
 MILE POST: 0.23



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
SUPERSTRUCTURE
 TYPICAL SECTION

HNTB		HNTB NORTH CAROLINA, P.C. License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609		REVISIONS		SHEET NO.	
DRAWN BY	J. BAYNE	DATE	8/14	NO.	3	BY:	
CHECKED BY	P. BARBER	DATE	9/14	NO.	4	DATE:	
DWG. NO. 4						TOTAL SHEETS	
						54	