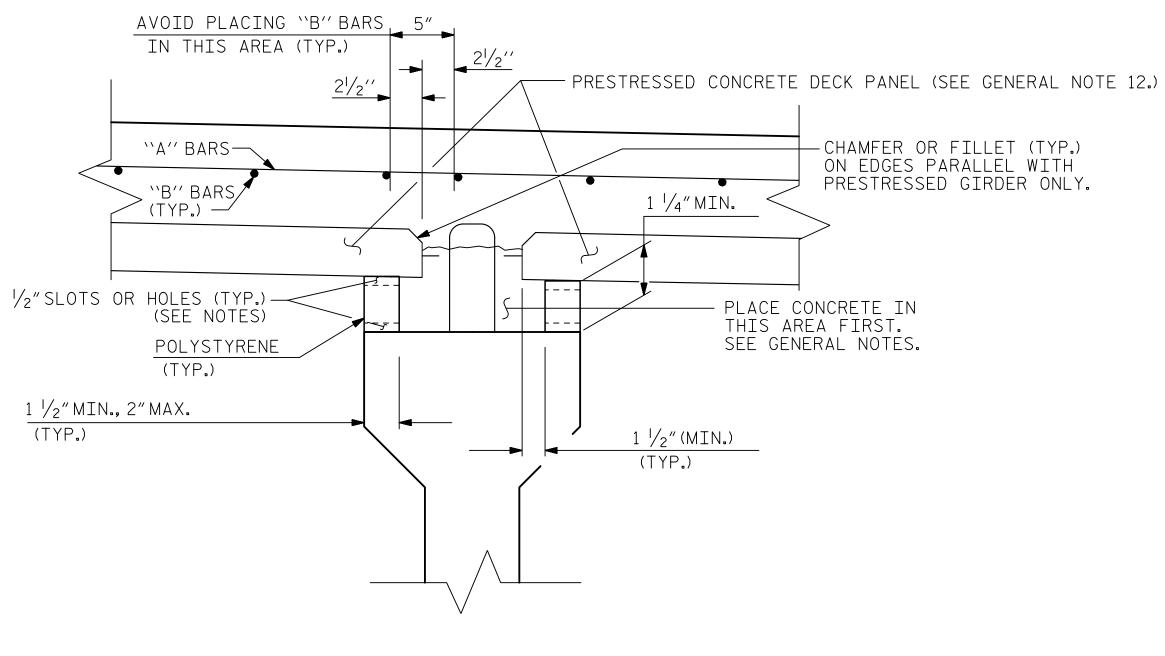
## DECK PANEL SUPPORTS

THE CONTRACTOR SHALL PROVIDE THE DECK PANEL SUPPORT SYSTEM SHOWN OR HE MAY SUBMIT A DECK PANEL SUPPORT SYSTEM OF HIS OWN DESIGN TO THE ENGINEER FOR APPROVAL.

POLYSTYRENE SUPPORT SYSTEM

- OR APPROVED EQUAL.
- OR  $\frac{1}{2}$  DIAMETER HOLES AT 4'-O"CENTERS STAGGERED ALONG THE TOP AND BOTTOM.
- BUILDUP PROFILE ALONG THE GIRDER.
- GIRDER. PRIOR TO PLACEMENT OF THE DECK PANELS, THE ADHESIVE SHALL ALSO BE APPLIED TO THE TOP OF THE POLYSTYRENE.
- HAS BEEN PLACED ON THE POLYSTYRENE SUPPORT SYSTEM.



POLYSTYRENE SUPPORT

ASSEMBLED BY : AES	DATE :5/17				
CHECKED BY : BE	DATE :8/17				
DRAWN BY : ELR 1/92 CHECKED BY : GRP 4/92	REV.5/7/03R RWW/JTE REV.5/1/06R TLA/GM REV.10/1/11 MAA/GM				

1. ALL POLYSTYRENE SHALL BE DOW STYROFOAM 60 HIGH-LOAD, UC INDUSTRIES FOAMULAR 600

2. THE POLYSTYRENE SUPPORT SYSTEM SHALL CONSIST OF ONE LAYER WITH A MINIMUM WIDTH OF 11/2" AND A MAXIMUM WIDTH OF 2". THE POLYSTYRENE SHALL HAVE 1/2" X 1/2" WIDE SLOTS

3. THE POLYSTYRENE MAY BE CUT AND PLACED ON EDGE AS NECESSARY TO MATCH THE REQUIRED

4. ADHESIVE, AS APPROVED BY THE ENGINEER, SHALL BE APPLIED TO THE TOP OF THE GIRDER IN A CONTINUOUS BEAD AND IN SUFFICIENT AMOUNT TO PREVENT THE POLYSTYRENE FROM BLOWING OUT AND TO PREVENT GAPS FROM FORMING BETWEEN THE POLYSTYRENE AND THE

5. CONCRETE-FILLED BUCKETS, STACKS OF DECK PANELS, BUNDLED REINFORCING BARS OR OTHER HEAVY CONCENTRATED LOADS WILL NOT BE PERMITTED ON THE DECK PANEL ONCE THE PANEL

2. THE PRECAST PRESTRESSED PANEL SHALL HAVE A THICKNESS OF  $3 \frac{1}{2}$ " with the PRESTRESSED STRANDS LOCATED AT HALF THE DEPTH OF THE PANEL.

3. FOR SKEWED SPANS, TRAPEZOIDAL CLOSURE PANELS SHALL HAVE A MINIMUM WIDTH OF 2 FEET ON THE SHORT SIDE.

4. ALL PRESTRESSING STRANDS SHALL EXTEND 2" BEYOND THE PANEL EDGES.

5. SHEAR REINFORCING OF 0.60 SQ. INCHES OF REINFORCING STEEL PER 10 SQ. FEET OF PANEL SURFACE SHALL BE PROVIDED IN THE PANEL TO ENSURE COMPOSITE ACTION BETWEEN PANEL AND THE CAST-IN-PLACE CONCRETE. SHEAR REINFORCEMENT SHALL BE MADE OF WELDED WIRE HAVING A MINIMUM YIELD STRENGTH OF 60 KSI.

6. SHEAR REINFORCEMENT AND LIFTING DEVICES SHALL BE CONSTRUCTED AND PLACED SO AS TO AVOID ANY INTERFERENCE WITH REINFORCING STEEL IN THE CAST-IN-PLACE DECK SLAB AND TO ALLOW FOR PROPER CONCRETE CONSOLIDATION IN THE DECK PANEL.

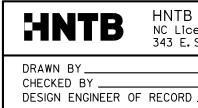
7. SHIFT LONGITUDINAL ``B'' BARS AS NECESSARY TO OBTAIN A MINIMUM CLEAR DISTANCE OF 2  $\frac{1}{2}$ " TO THE RIGHT OR LEFT OF THE EDGE OF THE DECK PANEL.

8. WHEN CASTING THE DECK, PLACE CONCRETE FIRST OVER THE GIRDERS IN CONTINUOUS STRIPS A MINIMUM OF THREE PANEL LENGTHS AHEAD OF THE REST OF THE CONCRETE. CAREFULLY VIBRATE THE CONCRETE OVER THE GIRDERS SO THAT CONCRETE COMPLETELY FILLS THE AREA UNDER THE DECK PANEL OVERHANGS. THEN PLACE AND VIBRATE THE REMAINING DECK CONCRETE.

10. PRECAST DECK PANELS SHALL CONTAIN CALCIUM NITRITE CORROSION INHIBITOR.

11. ALL BAR SUPPORTS AND INCIDENTAL INCIDENTAL REINFORCING STEEL USED IN THE PRECAST PANELS SHALL BE EPOXY COATED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

SHEET.



## <u>GENERAL NOTES</u>

1. THE DESIGN COMPRESSIVE STRENGTH (f'c) FOR THE CONCRETE IN PRESTRESSED PANELS SHALL BE 5000 PSI MINIMUM AT 28 DAYS. COMPRESSIVE STRENGTH OF CONCRETE AT TIME OF RELEASE OF STRANDS SHALL BE 4000 PSI MINIMUM.

9. PRECAST DECK PANELS SHALL BE DESIGNED FOR AN ALLOWABLE TENSILE STRESS OF O PSI IN THE PRECOMPRESSED TENSILE ZONE UNDER ALL LOADING CONDITIONS.

12. ENDS OF PANELS AT INTERIOR BENTS SHALL NOT OVERHANG ANY PORTION OF THE GIRDER END BY MORE THAN 1", MEASURED PERPENDICULAR TO THE END OF THE GIRDER. PANELS EDGE SHALL BE PARALLEL TO INTERIOR BENT CONTROL LINES AND PROVIDE A MINIMUM 10"WIDE GAP TO ALLOW CAST-IN-PLACE TO BE INSTALLED. SEE SECTION B-B ON "TYPICAL SECTIONS"

> BRUNSWICK STATION: POC 390+15.00 -L-

R-5021

SEAL 12916 12916 SEAL 12916 180F1B57368741E 8/31/2021		STARE OF NORTH CAROLINA <b>DEPARTMENT OF TRANSPORTATION</b> RALEIGH STANDARD							
		PRECAST PRESTRESSED CONCRETE DECK PANELS LEFT LANE							
NORTH CAROLINA, P.C. ense No. C-1554 Six Forks Rd., Suite 200, Raleigh, N.C. 27609		REVISIONS SHEET NO.							
		NO.	BY	DATE	NO.	BY	DATE	S5-11	
M. WRIGHTDATE7/2IP. BARBERDATE7/2IP. BARBERDATE7/2I	DWG.NO.II	1			3			TOTAL SHEETS	
		2			4			39	
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PROJECT NO.