



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

Roy Cooper  
Governor

J.R. "Joey" Hopkins  
Secretary

MEMO TO: Russell Broadwell, PE

FROM: Andrew D. Wargo, PhD, PE

DocuSigned by:  
*Andrew Wargo* 10/06/2023  
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SUBJECT: Revised Final Pavement Design  
I-5972, 44989.1.1  
US 70 Bus & I-95 Interchange  
Johnston County, Division 4

DATE: October 6, 2023

The revised pavement designs for the above project are as follows:

Line	Surface	Intermed.	Base	ABC	CTABC	Stab.
Y1 US-70 BUS	3.0" S9.5C	4.0" I19.0C	4.0" B25.0C	-	-	No
Y1 Ramps	3.0" S9.5C	3.0" I19.0C**	4.0" B25.0C	-	-	No
Y2 & Y3 (Mallard Rd.)	3.0" S9.5B	-	4.0" B25.0C	-	-	No
I-95	3.0" S9.5D	4.0" I19.0C	10.5" B25.0C	-	-	No
Y1 Ramps (Temp - 2 Years)	3.0" S9.5C	-	4.0" B25.0C	-	-	No

\*For I-95, remove the existing shoulders in areas where widening will occur or where the existing shoulder location will be used for accel/decel lanes, and replace with the design listed in the table above.

For I-95, mill the existing pavement 2.25" and replace with 3.0" S9.5D, and 0.75" of OGFC (to match surface type of the surrounding area.)

\*\*4.0" I19.0C may be used in order to facilitate the construction of shoulder berm gutter.

In areas with existing curb and gutter to remain in place, mill existing pavement 1.5" and replace with half the surface thickness listed in the table above

On Y1, in areas without existing curb and gutter, overlay the existing pavement to remain in place with 1.5" of S9.5C.

If any additional information is needed, please contact Andrew D. Wargo, Ph.D., PE, Pavement Design/Analysis at 919-329-4017

CSM/adw

<p>Mailing Address: NC DEPARTMENT OF TRANSPORTATION MATERIALS AND TESTS UNIT 1563 MAIL SERVICE CENTER RALEIGH, NC 27699-1563</p>	<p>Telephone: (919) 329-4000 Fax: (919) 733-8742 Customer Service: 1-877-368-4968 Website: www.ncdot.gov</p>	<p>Location: 1801 BLUE RIDGE ROAD RALEIGH, NC 27607</p>
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