



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

Roy Cooper  
Governor

J. Eric Boyette  
Secretary

MEMO TO: PROJECT ENGINEER

FROM: Mr. Pat Ivey, PE

SUBJECT: Division 9 Final Pavement Design  
U-5824, 44395.1.1  
NC 66 From Harley Drive to US 158  
Forsyth County, Division 9

DATE: 7/21/2023

The pavement designs for the above project are as follows:

Line	Surface	Intermed.	Base	ABC	Stab.	SN <sub>REQ</sub>
NC 66	3.0" S9.5B	4.0" I19.0C	4.0" B25.0C	-	No	3.73
Y1, Y2, Y3, Y4, Y5, Y6, Y9, Y10, Y11A, Y11B	3.0" S9.5B	4.0" I19.0C	4.0" B25.0C	-	No	3.13
Y7A, Y7B, Y8A, Y8B, Y9	3.0" S9.5B	4.0" I19.0C	4.0" B25.0C	-	No	2.92
Temporary Pavement	2.5" S9.5B	-	5.0" B25.0C	-	No	2.53

Overlay the existing pavement with the following: 1.5" S9.5B

See Geotechnical Recommendations for Pavement Design dated January 14, 2019 for additional recommendations and details.

**The mix designations provided for the above designs are in accordance with the 2018 NCDOT QMS manual.**

If any additional information is needed, please contact: Connie James at 336-747-7800.

**Design Information:**

Initial Year:	2016	Projection Year:	2040
Initial Year ADT:	22,100	Proj. Yr. ADT:	24,200
% DUALS:	3.0	% TTST:	1.0
LANE/DIRECTION:	2	Des. Life (Years):	30
DIR %:	50	Subgrade M[r]:	8,043
Construction Year:	2023	Design TOT. 18K:	1,836,618
SN Required:	3.73	SN DESIGN:	4.28

SPI/ckj

cc: pavementrequests@ncdot.gov

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