



**North Carolina Department of Transportation  
Product Evaluation Program  
Bus Shelter  
Structural Adequacy Document**



General Bus Shelter Submittal Information:

Date of Submission: \_\_\_\_\_

Company Name: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Contact E-mail: \_\_\_\_\_

Product Name: \_\_\_\_\_

Dimensions (width x height): \_\_\_\_\_

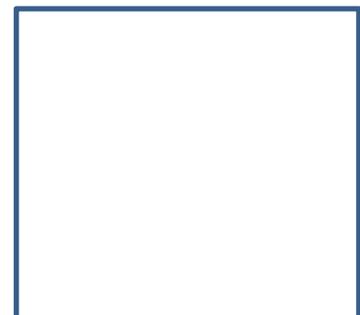
Primary Material: \_\_\_\_\_

In order for a bus shelter to be placed within NCDOT Right of Way, a North Carolina Licensed Professional Engineer must seal, sign and date, verifying the following information:

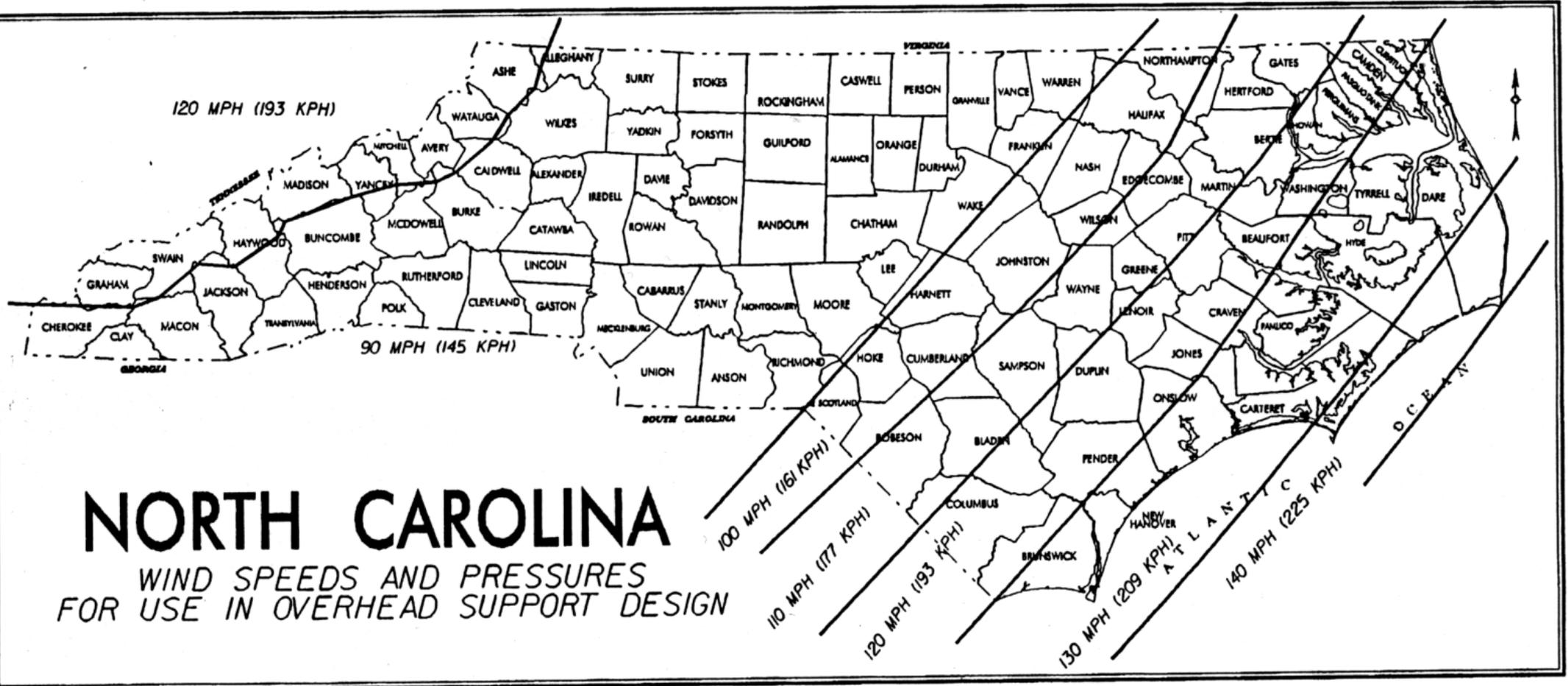
1. The bus shelter is correctly designed to withstand a maximum design wind velocity of \_\_\_\_\_ mph. (Reference the wind zone map on the following page.)
2. The bus shelter (considered to be a rigid, partially enclosed building) is correctly designed to resist all applicable loads in accordance with *ASCE/SEI 7: Minimum Design Loads for Buildings and Other Structures*.
3. The main wind force resisting system (MWFRS) for the bus shelter is correctly designed in accordance with the *AASHTO Standard Specifications for Structural Support for Highway Signs, Luminaires and Traffic Signals*.

As a Licensed Professional Engineer in the state of North Carolina, I verify the three statements noted above.

\*As part of the encroachment process, the site specific soil conditions of each bus shelter within NCDOT Right of Way must be evaluated by a Professional Engineer licensed in the state of NC to verify that the foundation is designed according to current AASHTO or ACI requirements. Additionally, as a minimum, the bus shelter foundation and connections must satisfy the manufacturer's recommendations.



Seal of NC Licensed PE



# NORTH CAROLINA

WIND SPEEDS AND PRESSURES  
FOR USE IN OVERHEAD SUPPORT DESIGN