

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PAT MCCRORY GOVERNOR

ANTHONY J. TATA Secretary

May 5, 2014

MEMO TO: Jon Nance, PE, Deputy Chief Engineer Kevin Lacy, PE, State Traffic Engineer Ricky Greene, Jr., PE, Director of Field Support Mike Bruff, PE, Manager, Transportation Planning Branch Roadway Design Unit Regional Managers Richard Hancock, PE, Manager, Project Development & Environmental Analysis

FROM: Debbie Barbour, PE Lelelue Director of Preconstruction

SUBJECT: "Typical" Highway Cross Sections

The comprehensive planning and design "typical" highway cross sections have been updated in response to the Strategic Transportation Investments Law (House Bill 817) and are also consistent with SPOTOnline (used for Project Prioritization), NCDOT's GIS-based Web Application for providing automated, near real-time prioritization scores and project costs. This guidance establishes design elements that emphasize safety, mobility, complete streets, and accessibility for multiple modes of travel. These "typical" highway cross sections should be used as guidelines for comprehensive transportation planning, project planning and project design activities. The specific and final cross section details and right of way limits for projects will be established through the preparation of the National Environmental Policy Act (NEPA) documentation and through final design preparation.

Please provide this information to your Unit staff, Division staff, and to others as appropriate for their information and immediate implementation. This guidance is intended for State Transportation Improvement Program (STIP) projects and other applicable projects. If you have any questions, please contact one of the Roadway Design Unit Regional Managers, Glenn Mumford, PE, Roger Thomas, PE, or Doug Taylor, PE at 919-707-6200.

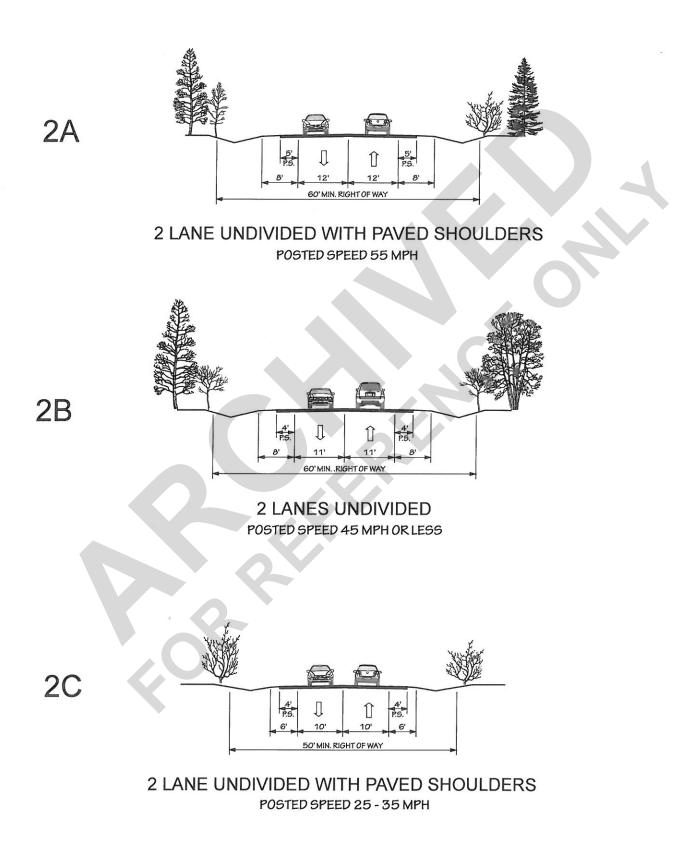
DMB/mb

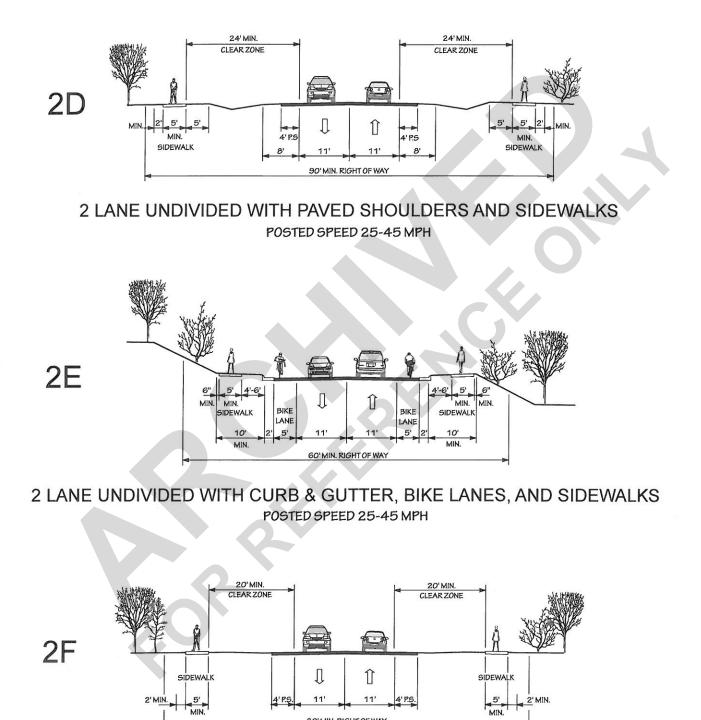
Attachments

cc w/attachments:	Mike Holder, PE
	Susan Pullium
	Rodger Rochelle, PE
	Calvin Leggett, PE
	Terry Gibson, PE

MEMO ("Typical" Highway Cross Sections) Page 2 May 5, 2014

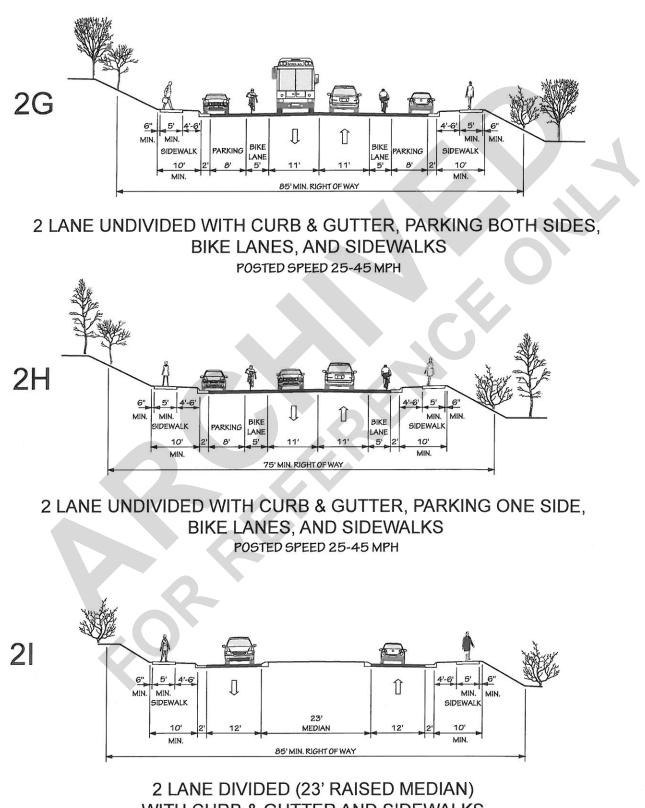
> Division Engineers Don Voelker Tom Childrey Debbie Collins Lauren Blackburn Ron Hancock, PE Division Design Engineers





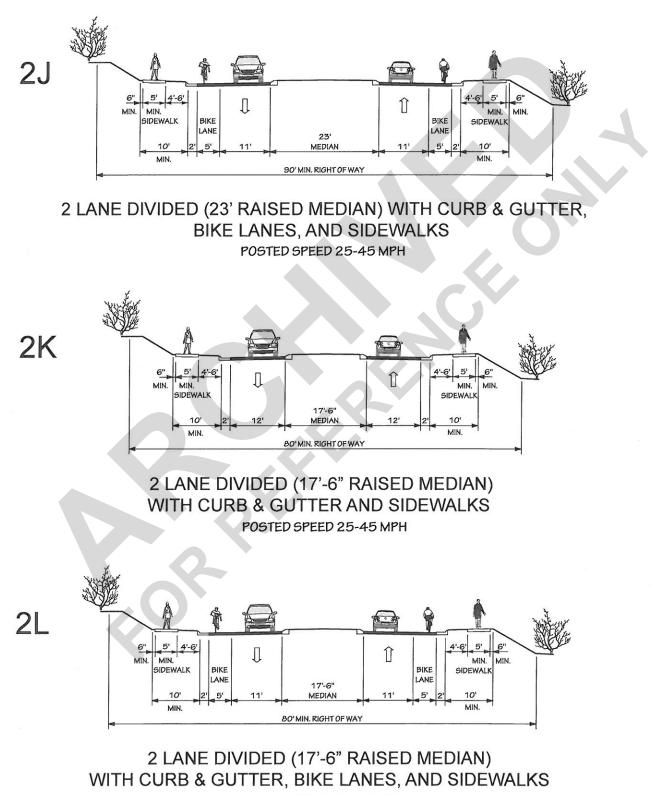
2 LANE UNDIVIDED WITH PAVED SHOULDERS AND SIDEWALKS IN CAMA COUNTIES POSTED SPEED 25-45 MPH

80' MIN. RIGHT OF WAY

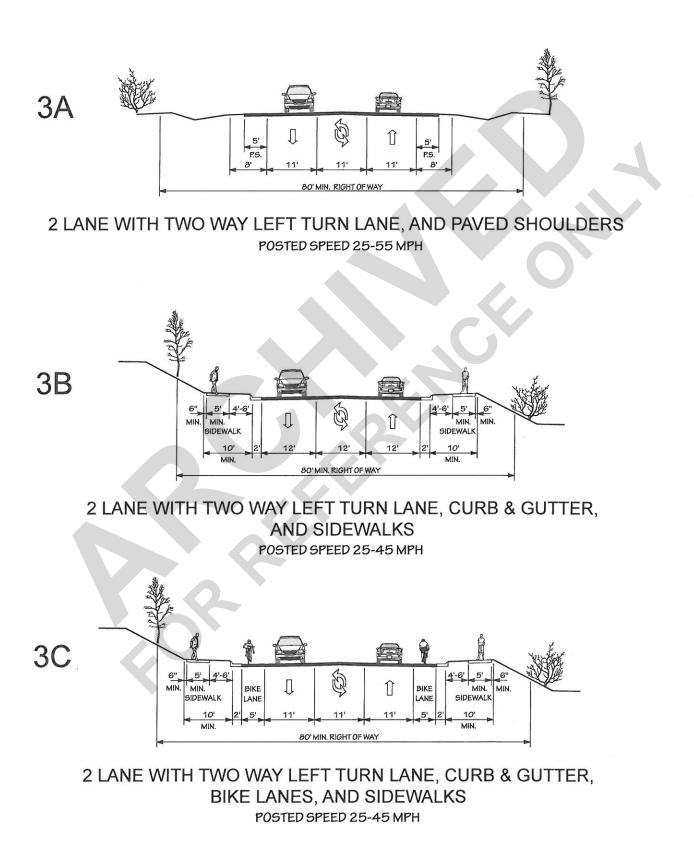


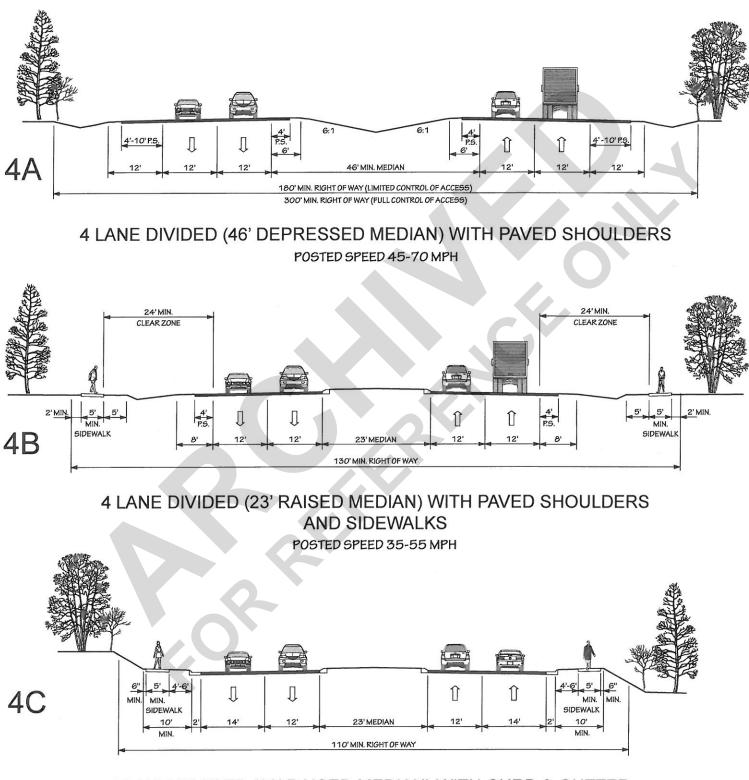
WITH CURB & GUTTER AND SIDEWALKS

POSTED SPEED 25-45 MPH

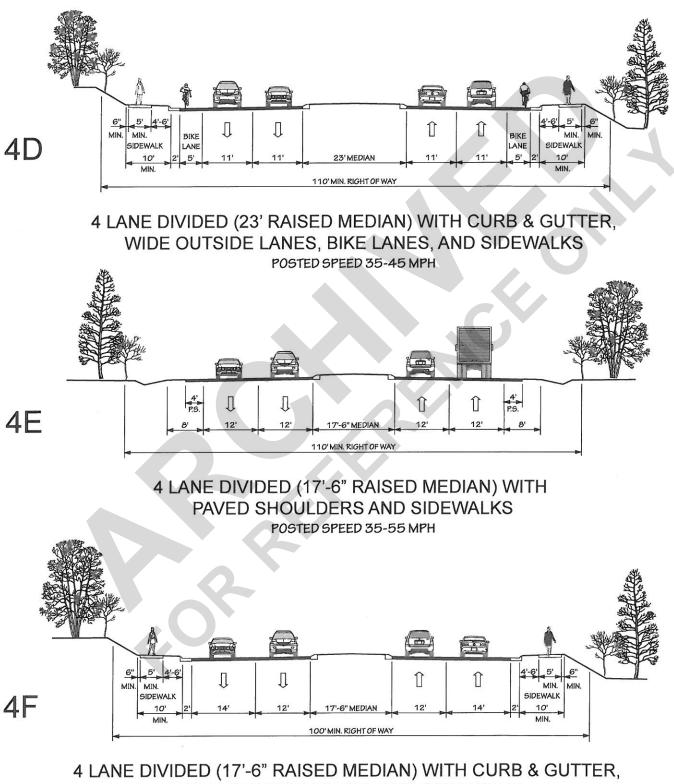


POSTED SPEED 25-45 MPH



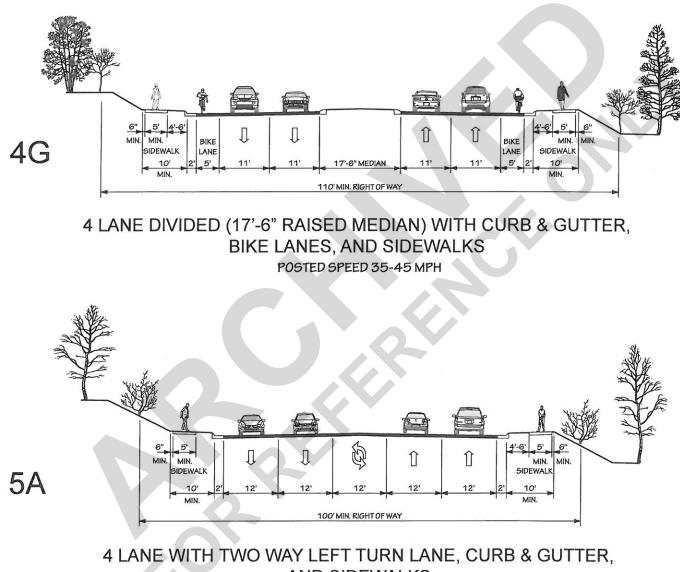


4 LANE DIVIDED (23' RAISED MEDIAN) WITH CURB & GUTTER, WIDE OUTSIDE LANES, AND SIDEWALKS POSTED SPEED 35-45 MPH



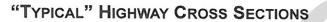
WIDE OUTSIDE LANES, AND SIDEWALKS

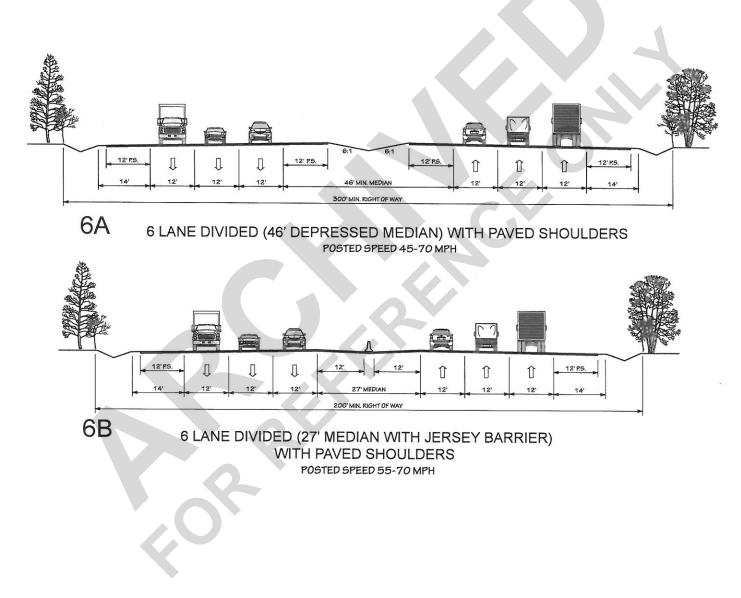
POSTED SPEED 35-45 MPH

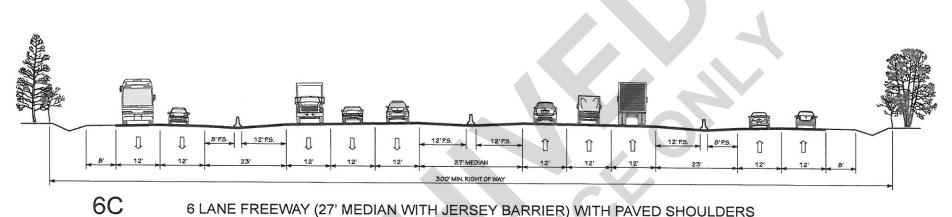


AND SIDEWALKS

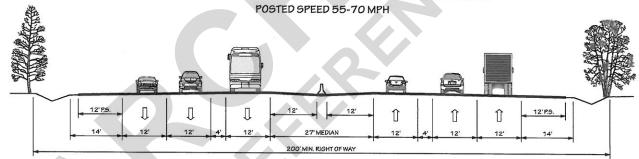
POSTED SPEED 35-45 MPH





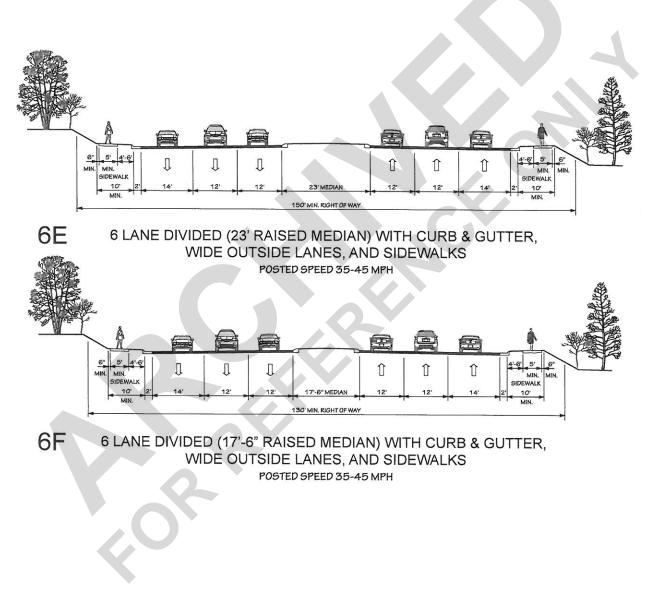


6 LANE FREEWAY (27' MEDIAN WITH JERSEY BARRIER) WITH PAVED SHOULDERS AND 2 LANE ONE-WAY SERVICE ROADS EACH SIDE



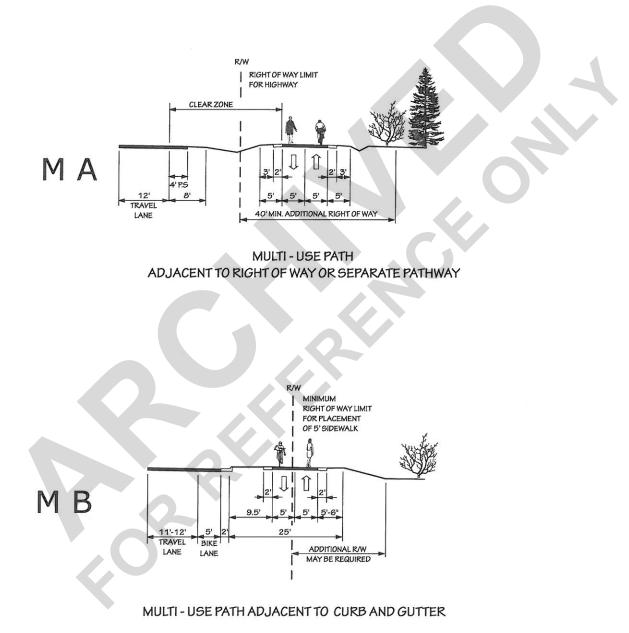
6 LANE FREEWAY (4 GENERAL PURPOSE LANES, 2 MANAGED LANES, AND 27' MEDIAN WITH JERSEY BARRIER) WITH PAVED SHOULDERS POSTED SPEED 55-70 MPH

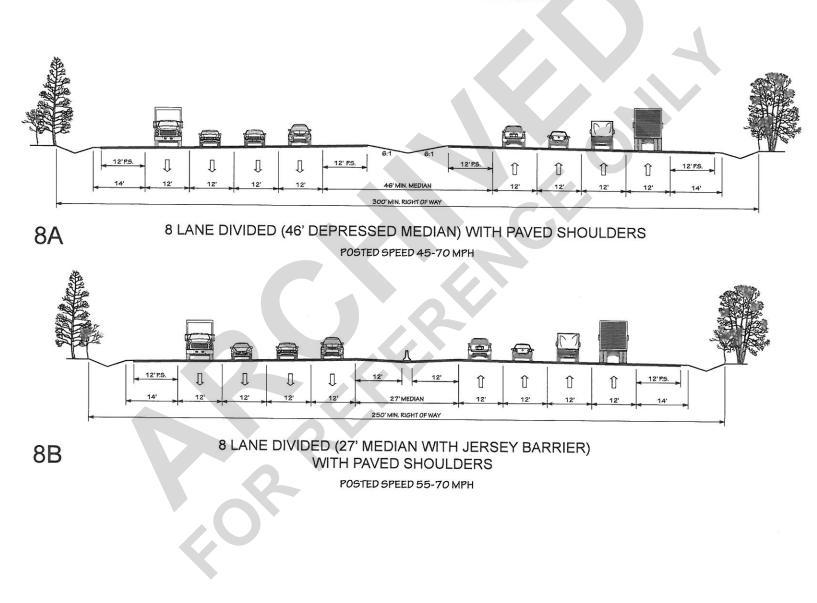
6D

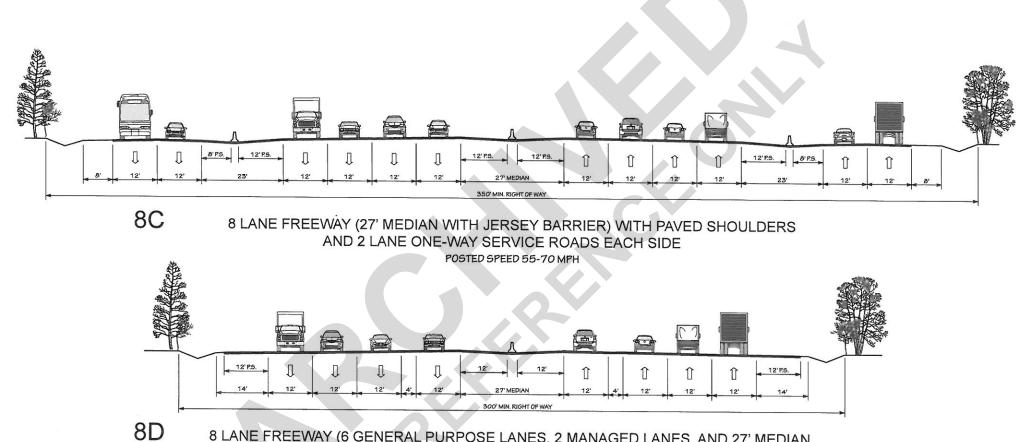


CAMA COUNTIES

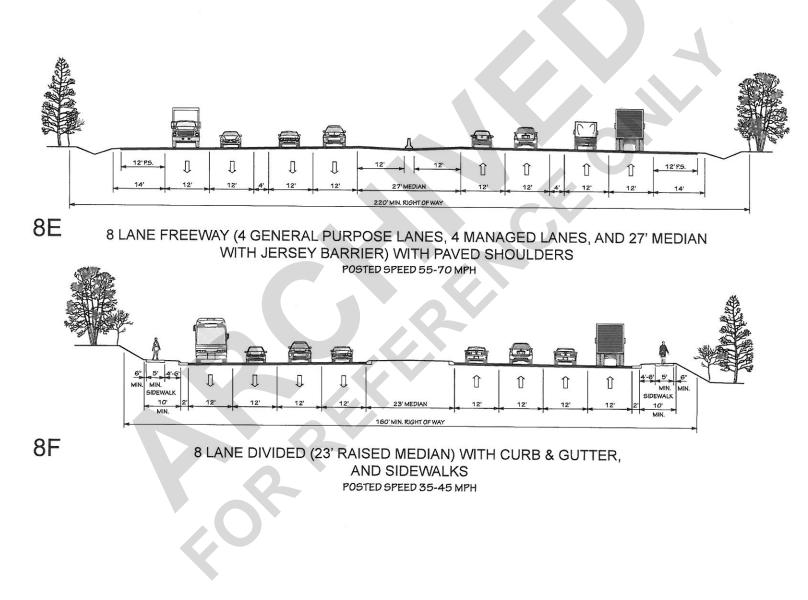
Beaufort Bertie Brunswick Camden Carteret Chowan Craven Currituck Dare Gates Hertford Hyde **New Hanover** Onslow Pamlico Pasquotank Pender Perquimans Tyrrell Washington

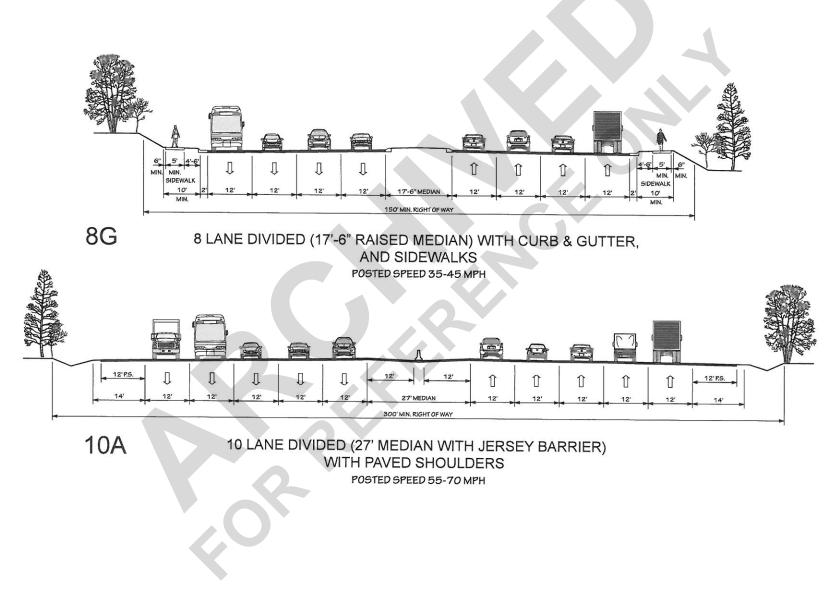


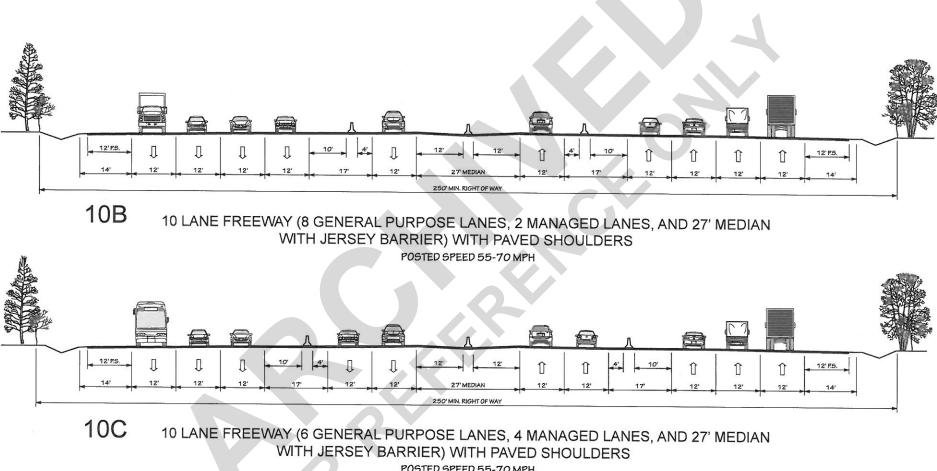




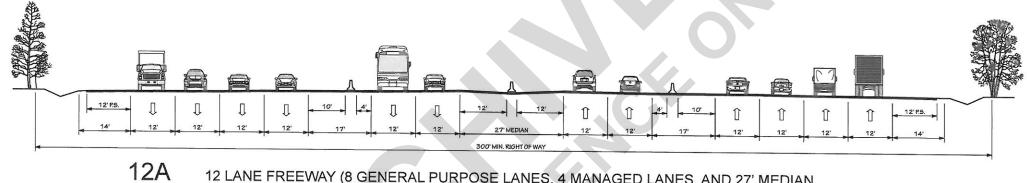
8 LANE FREEWAY (6 GENERAL PURPOSE LANES, 2 MANAGED LANES, AND 27' MEDIAN WITH JERSEY BARRIER) WITH PAVED SHOULDERS POSTED SPEED 55-70 MPH







POSTED SPEED 55-70 MPH



12 LANE FREEWAY (8 GENERAL PURPOSE LANES, 4 MANAGED LANES, AND 27' MEDIAN WITH JERSEY BARRIER) WITH PAVED SHOULDERS POSTED SPEED 55-70 MPH