

## Welcome NCC to NC!

Nilesh Surti, PE State Pavement Construction Engineer NCDOT Construction Unit September 23, 2013







#### **NCDOT – Highway System**

- > 79,000+ Total Survey Miles
  - 6400 Total Interstate Miles
    - CRC = 67 miles
    - JCP = 1500 miles



PCCP Including US and NC routes

Total CRC = 131 miles Total JCP = 1750 miles





#### NCDOT – 14 Divisions









# **Bridge Aesthetics Initiative**

Jay Swain



#### NCDCR/NCDOT Bridge Aesthetics Initiative







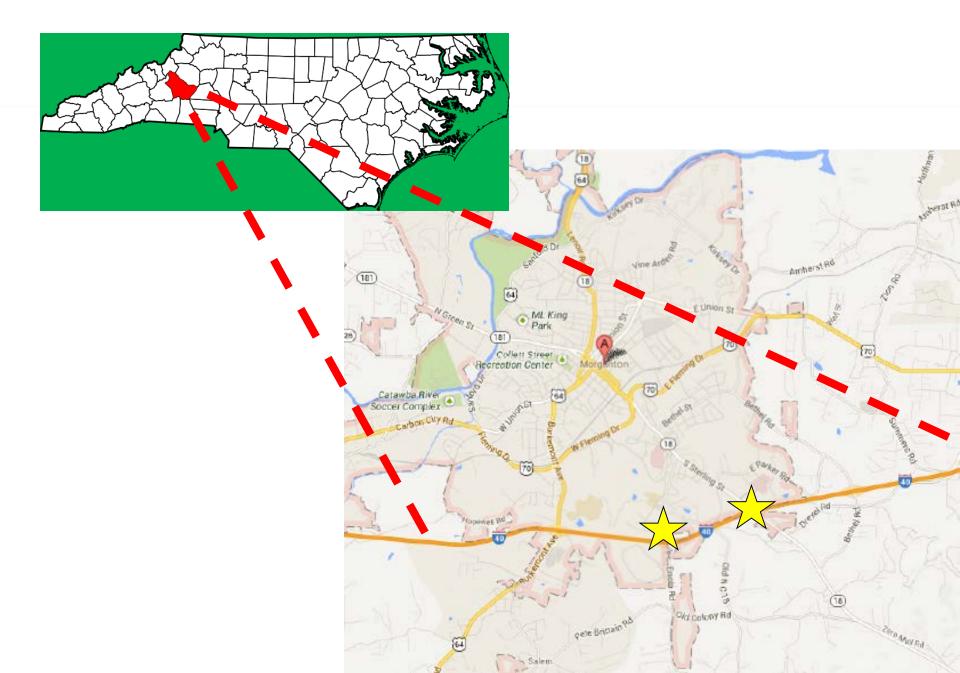
#### **Requests by the City of Morganton**

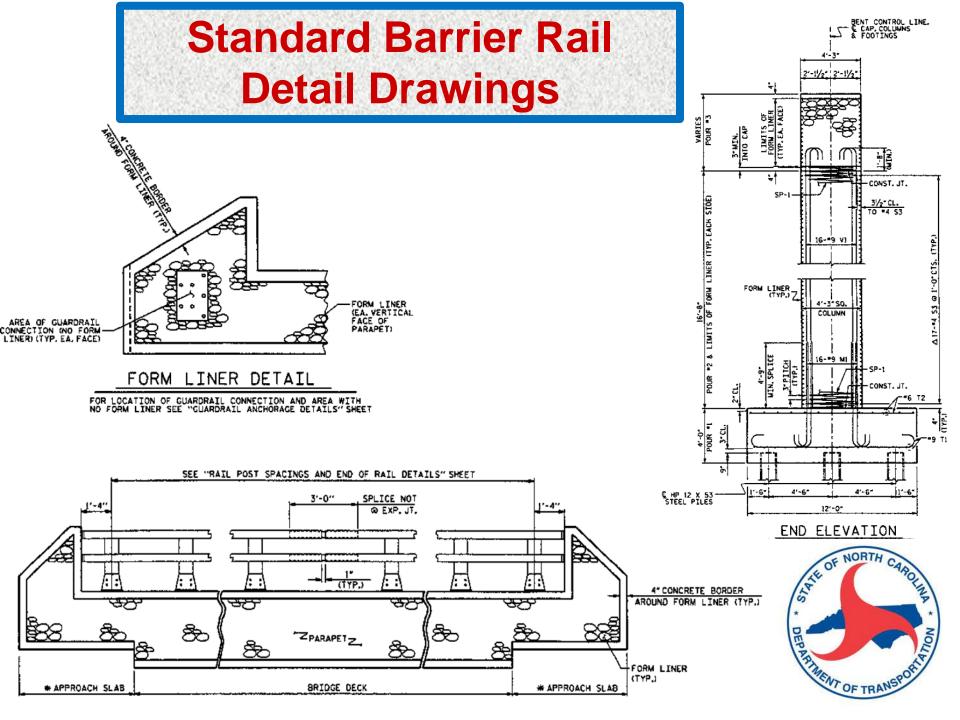
			ROADWAY DESIGN UNIA
/	No	RTH CAROLINA	MAY 0 5 2006
	April 30, 2008		
	Ms. Teresa Hart, PE, CPI Western Project Develop NCDOT – Project Develop 1548 Mail Service Cente Raleigh, NC 27699 – 15	ment Engineer opment and Environmental Analysis Branch r	PENDENT FOIL BISNUTIRE PRIME PARAMONISCUES WITH REFERENCIES WITH
	Dear Ms. Hart,		
	instructed at that mean the items that the City above-referenced projec Among the items discut 1. Planting or grass landscaping pla accepts that all Highways Grad or reduce drive accepts respon- after a three ye plantings and p	sed and to be included in the municipal agree sing of the raised median sections as represen a submitted by the City to NCDOT. The C plantings in the medians comply with the <i>elines for Planting within Highway Right-of-</i> <i>s</i> sight distance nor present a hazard to vehici ibility for the maintenance of these grasses are establishment growing period. NCDOT w resent them to the City for review and appro-	with NCDO1 for the ment are: the in the conceptual City understands and NCDOT Division of Way and not obstruct iles. The City further i or planted medians fill design these mass weal before letting the
	<ol> <li>NCDOT will requested by t standard dark the Signals at existing in do installed by th this encroach project</li> </ol>	install green, mast-arm traffic signal poles the City at no cost to the City. The City we green colors for these poles and coordinate of Geometrics Section. Luminaire poles me wntown Morganton and proposed for our his City at a later date through an encroachmen nent permit will be given as part of this b install high-mast lighting in the interchange a	with the Drivision and atching those already storic districts may be t agreement. However, widge and interchange
	<ol> <li>NCDOT will City at no cost</li> </ol>	to the City.	
Telephon	ne (828) 437-8863	305 E Union Street, Suite A100 Morranton, NC 28655	Post Office Box 3448 Morganton, NC 28680-3448



- NCDOT received requests from the City of Morganton for two projects that improve Interstate 40 interchanges at Exits 104 and 105 and included additional enhancements to bridges.
- NCDOT worked with the City of Morganton and they agreed to pay for the additional costs of the aesthetic improvements that included architectural concrete surface treatment on the bridge rails and abutment walls.

#### I-40 Exits 104 and 105, City of Morganton, Burke County





## STIP U-2551 I-40 Exit 104 Enola Road

# Hand-finished staining



















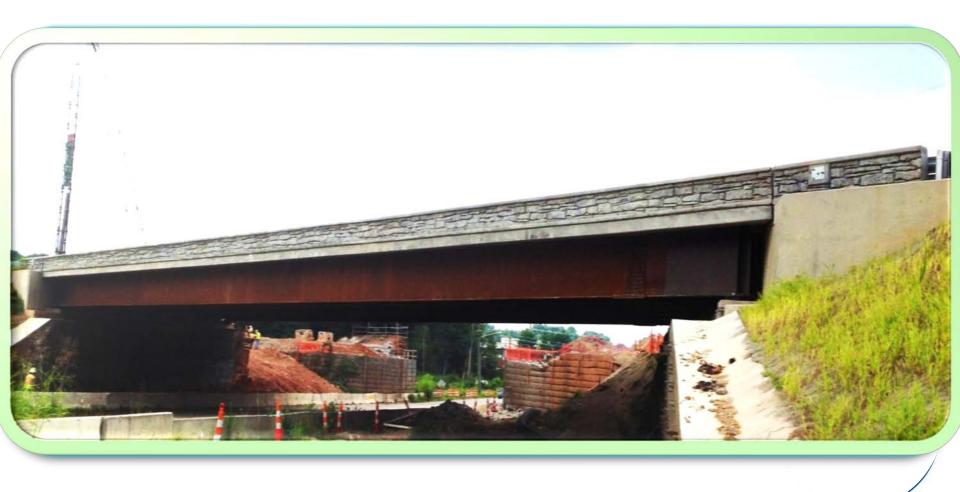
#### STIP U-2551 Cost Break-down

	Cost	% Total Project Cost	
Total Project	\$23,489,010	100	
Construction	\$14,145,410	60.22	
Right of Way	\$9,343,600	39.78	
Bridge over I-40	\$1,868,652	7.96	
Architectural wall treatments	\$116,460	0.50	





I-40, Exit 105 NC 18 (S. Sterling Street)





#### **Stamped unstained concrete**















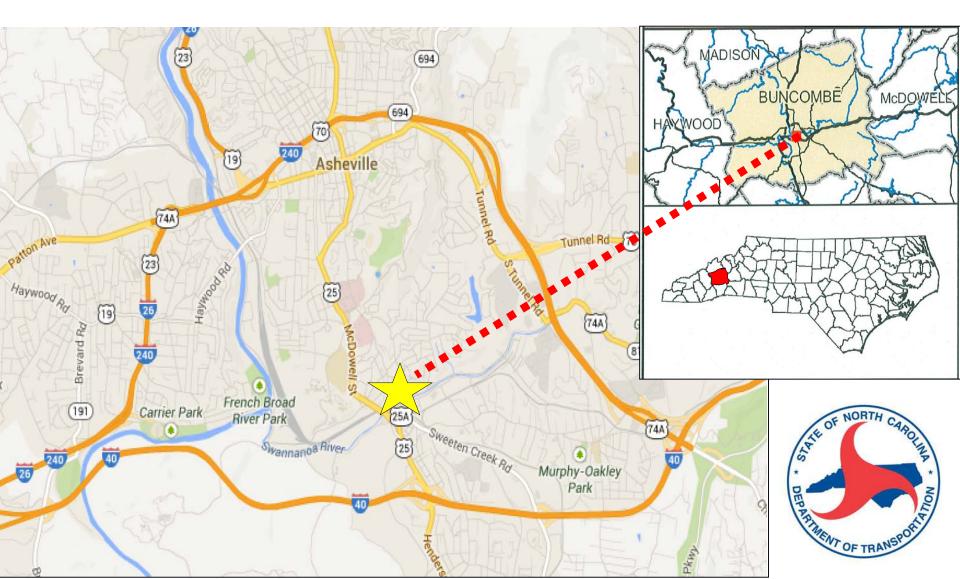


#### STIP U-2550B Cost Break-down

	Cost	% Total Project Cost
Total Project	\$22,513,284	100
Construction	\$21,229,384	94.30
Right of Way	\$1,283,900	5.70
I-40 Bridge	\$6,764,920	30.05
Stamped concrete treatments	\$121,759	0.54



#### STIP B-2515 NC 81 (Biltmore Avenue) Bridge, Asheville







#### STIP B-2515 NC 81 (Biltmore Avenue) Bridge





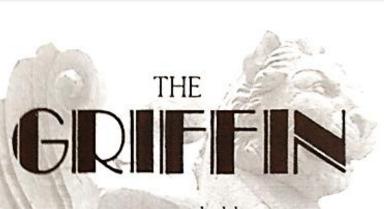
## Historic street lighting



# Quatrefoil design







awarded by The Preservation Society of Asheville and Buncombe County in Recognition of Outstanding Contributions to Historic Preservation New Construction in a Historic or Traditional Neighborhood NCDOT **Biltmore Avenue Bridge** Asheville, North Carolina mildente



#### **STIP B-2515 Cost Break-down**

	Cost	% Total Project Cost	
Total Project	\$5,444,201	100	
Construction	\$2,132,460	39.17	
Right of Way	\$3,311,741	60.83	
Historic aesthetic treatments	\$45 <i>,</i> 510	0.84	





## **NCDOT – Yearly Bid Lettings**

**2008 = \$989 Million 2009 = \$943 Million 2010 = \$1.24 Billion 2011 = \$1.82 Billion 2012 = \$1.83 Billion 2013 = \$1.12 Billion** (Sept)

229 Projects
244 Projects
164 Projects
192 Projects
302 Projects
170 Projects





#### **Concrete Paving Projects since 2008**

TIP#	County	Div.	Route	Letting Date	Contract Amount	Project Length
I-5005A	Buncombe	13	I-26	4/15/2008	\$19,998,576	13.20
R-2635ABC	Wake	5	I-540	8/5/2008	\$446,460,000	12.60
U-2826A	Forsyth	9	US 52	2/16/2010	\$19,038,187	0.66
I-2304AC	Davidson, Rowan	9	I-85	4/22/2010	\$136,019,702	3.30
R-2248E	Mecklenburg	10	I-485	5/21/2010	\$139,457,130	5.10
I-3803B	Cabarrus	10	I-85	7/23/2010	\$125,159,110	6.80
R-2123CE	Mecklenburg	10	I-485	9/10/2010	\$92,162,250	1.44
I-2304AD	Davidson	9	I-85	1/18/2011	\$65,492,465	3.59
I-3819	Iredell	12	I-40/I-77	6/19/2012	\$89,072,361	3.36
U-2524C	Guilford	7	I-73	9/24/2013	Estimated \$136,500,000	3.87
					\$1.27 Billion	53.9 Miles

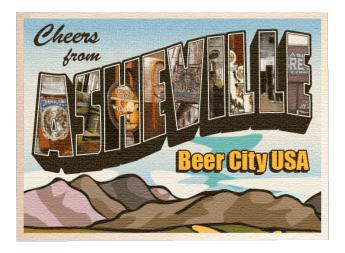




#### **Items of Interest**

- 1. Pavement-ME Software Implemented Fall 2011
- 2. Rigid Pavement Committee ACPA
- 3. Testing cylinders (vs Beams) for Strength
- 4. Longitudinal Tining Pilot Project
- 5. Diamond Grinding Noise & Preservation
- 6. Drainage Fabric Weigh Station Ramp
- 7. Increase Limestone in concrete mix
- 8. RCC Option on Interstate Shoulder







- Top 7 Places to Live
- 10 Most Beautiful Places in America (2011)
- Best Small Cities for Art (2000-2012)
- 25 Best Places for Business & Careers (2012)
- Beer City USA (Champion 2009-2012)
- 17 Breweries
- Coming soon...Sierra Nevada and New Belgium