

**Charlotte Outer Loop and I-85 Widening
TIP Projects R-2248E, R-2123CE, and I-3803B
Industry Forum Agenda
December 3, 2009, 1:00 p.m.**

- | | | |
|-----|---|--|
| (1) | Welcoming Remarks | Barry Moose |
| (2) | Project Overviews | Rodger Rochelle |
| | a. Authority | |
| | b. Project Limits | |
| | c. NEPA & Merger Status | |
| | d. Timelines | |
| | e. Stipends | |
| (3) | NCDOT Finance and Project Payout | Mark Foster |
| | a. NCDOT Finance – General | |
| | b. Project Maximum Prices | |
| | c. Project Availability of Payments | |
| | d. GARVEE Program | |
| | e. Financial Package for SOQs and Technical Proposals | |
| | f. Finance Questions and Answers | |
| (4) | Division Goals and Objectives | Tawana Brooks |
| (5) | Disadvantaged Business Opportunities | Tawana Brooks |
| | a. Project Goals | |
| | b. Industry DBE Forum | |
| (6) | Project Synopses | Nilesh Surti
Jackie Armstrong
Tim McFadden |
| (7) | Design-Build Procurement Process | Rodger Rochelle |
| | a. Procurement Process | |
| | b. Prequalification Requirements | |
| | c. Statements of Qualifications | |
| | d. Utility Coordination | |
| | e. Conflict of Interest and Ethics | |
| | f. Utilities and Meetings | |
| (8) | General Questions and Answers | All |



Industry Forum

R-2248E, R- 2123CE, I-3803B

Welcome

Barry Moose
Division Engineer



Division 10
NC Department of Transportation



Project Overviews



Rodger Rochelle
Director, Transportation Program Management





Authority

- **§ 136-18(39). Powers of Department of Transportation.**

“To enter into partnership agreements with the North Carolina Turnpike Authority, private entities, and authorized political subdivisions to finance, by tolls, contracts, and other financing methods authorized by law, the cost of acquiring, constructing, equipping, maintaining, and operating transportation infrastructure in this State, with priority given to highways, roads, streets, and bridges, and to plan, design, develop, acquire, construct, equip, maintain, and operate highways, roads, streets, bridges, and existing rail, ... Any contracts for construction of highways, roads, streets, and bridges which are awarded pursuant to an agreement entered into under this section shall comply with the competitive bidding requirements of Article 2 of this Chapter.”



Project Limits

- **R-2248E**
 - I-485 (Charlotte Outer Loop) from West Of NC 115 To West Of I-85
- **I-3803B**
 - I-85 Widening from Bruton Smith Boulevard (SR 2894) To NC 73
- **R-2123CE**
 - I-485 (Charlotte Outer Loop) / I-85 Interchange



NEPA Status

■ R-2248E

- Final Environmental Impact Statement for R-2248B - Approved On January 29, 1992
- Record Of Decision for R-2248B - Approved on October 15, 1992
- Categorical Exclusion for I-485 and Prosperity Church Road Interchange - Approved on May 10, 2006
- Right Of Way Environmental Consultation - Approved on June 4, 2009



NEPA Status

■ I-3803B

- Environmental Assessment - Approved on June 24, 2009
- Finding of No Significant Impact - Approval anticipated In February 2010

■ R-2123CE

- Categorical Exclusion - Approval imminent



Merger 01 Status

- **R-2248E**
 - Concurrence Points obtained through 4B
 - 4C by Design-Build Team
- **I-3803B**
 - Concurrence Points 3 and 4A will be Obtained in December 2009
 - 4B, 4C by Design-Build Team
- **R-2123CE**
 - Only Concurrence Points 2A and 4A required and obtained
 - Interagency Meeting with Design-Build Team



Timelines

- **R-2248E**
 - Request for Qualifications (RFQ) Advertisement – November 16, 2009
 - Statement of Qualifications (SOQ) Submittal – December 22, 2009
 - Technical and Price Proposals Submittal – May 4, 2010
 - Open Price Proposals – May 21, 2010



Timelines

■ I-3803B

- RFQ Advertisement – January 4, 2010
- SOQ Submittal – February 9, 2010
- Technical and Price Proposals Submittal – June 29, 2010
- Open Price Proposals – July 20, 2010

■ R-2123CE

- RFQ Advertisement – February 15, 2010
- SOQ Submittal – March 22, 2010
- Technical and Price Proposals Submittal – July 29, 2010
- Open Price Proposals – August 24, 2010



Stipends

R-2248E: \$150,000

I-3803B: \$100,000

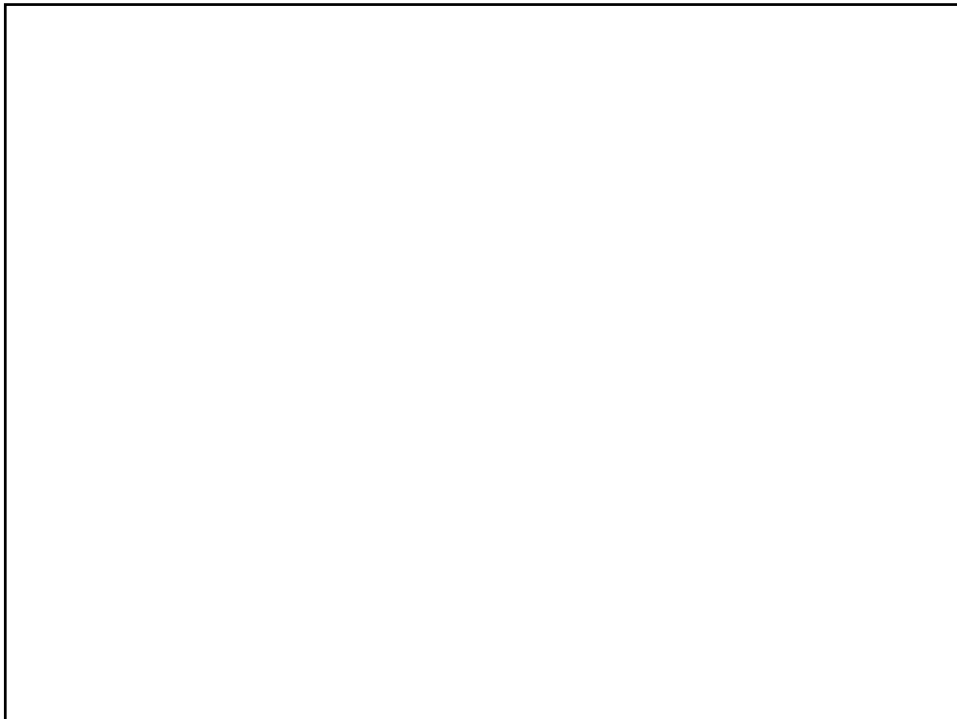
R-2123CE: \$125,000



NCDOT Finance & Project Payout

- **NCDOT Finance – General**
- **Project Maximum Prices**
- **Project Availability of Payments**
- **GARVEE Program**
- **Financial Package for SOQs and Technical Proposals**
- **Finance Questions**

Mark Foster
Chief Financial Officer



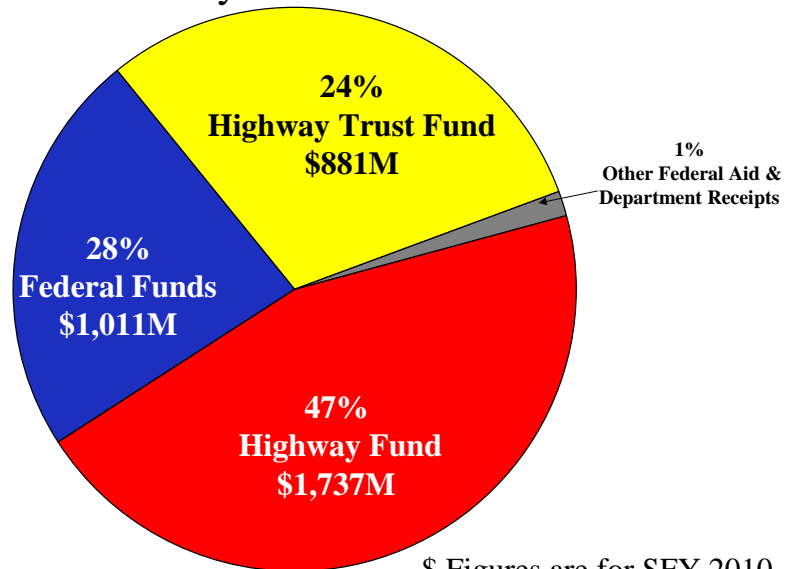
Industry Forum

NCDOT and Project Finance

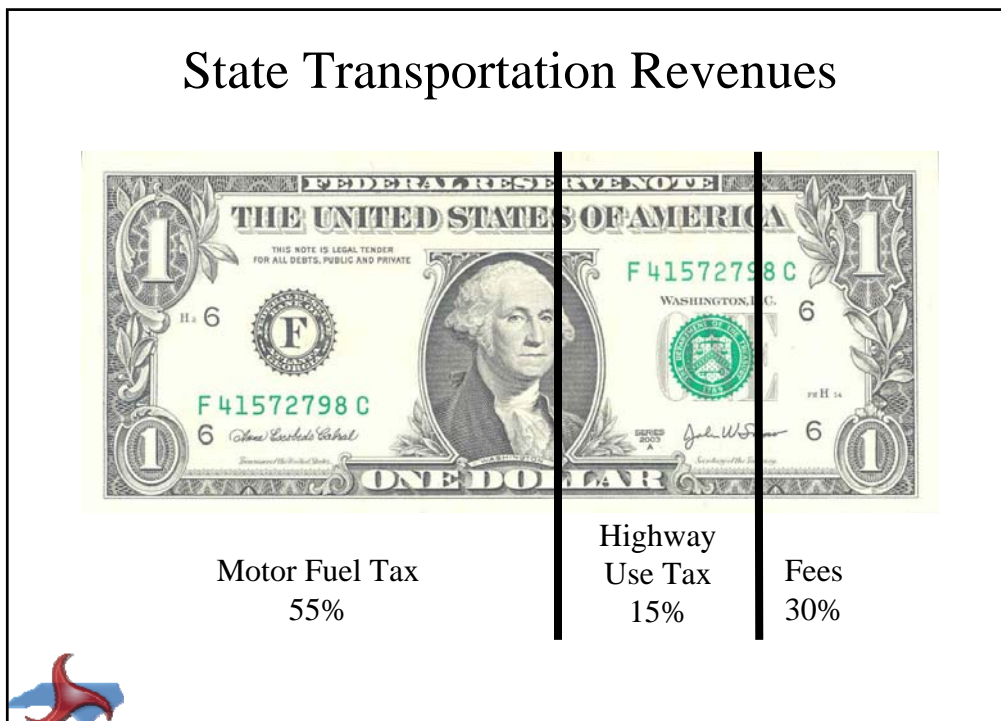
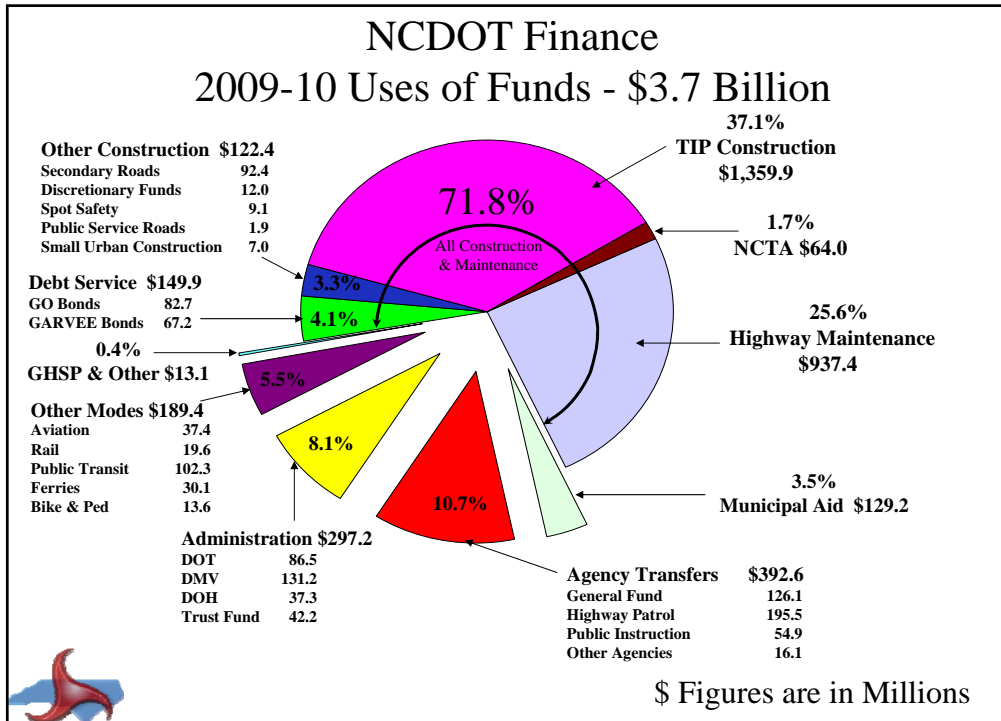
Mark Foster
Charlotte, December 3, 2009



NCDOT Finance Revenues by Fund - \$3.7 billion



\$ Figures are for SFY 2010



Federal Transportation Revenues



Motor Fuel Tax 92%

Fees
8%



Transportation Reform Framework

North Carolina Comprehensive Plan

NC

N.C. Transportation Plan 20 yr

NCDOT

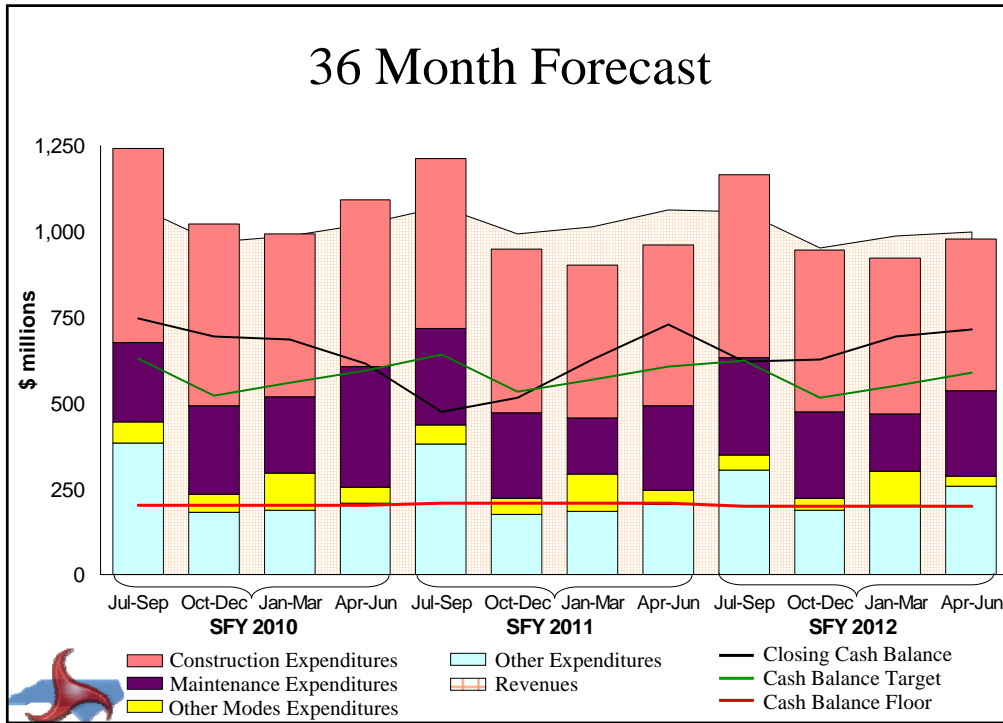
Program & Resource Plan 10 yr

SIP STATE
TRANSPORTATION
IMPROVEMENT
PROGRAM 2009 - 2015

Work Program 5 yr

- Delegation of authority to Secretary to award contracts for projects

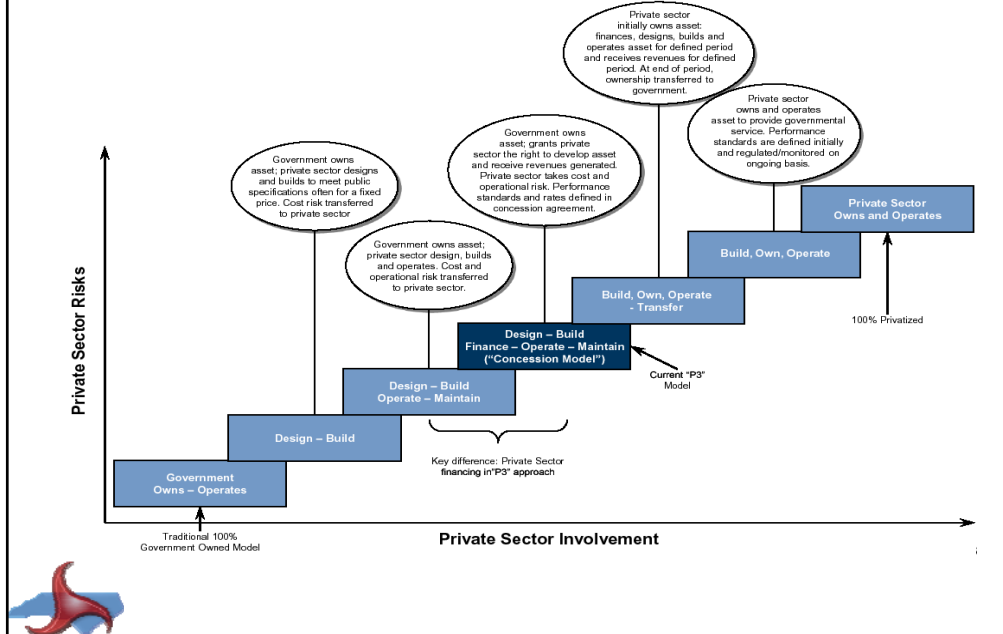




Cash Forecast Variance

	Revenue (%)	Expenditure (%)
SFY 2008	2.9%	-6.6%
SFY 2009	1.8%	-6.5%
SFY 2010 – 1 st Qtr	-0.5%	-18.6%

Spectrum of Private Sector Risk and Involvement

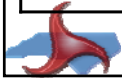


Project Maximum Prices - \$ in Millions

	Reported (w/CEI)	Maximum Prices	% of Reported
I-85 Widening (I-3803B)	\$200	\$172	86%
I-485 Loop (R-2248E)	\$185	\$155	84%
I-485 Interchange (R-2123CE)	\$155	\$131	85%
Total	\$540	\$458	85%

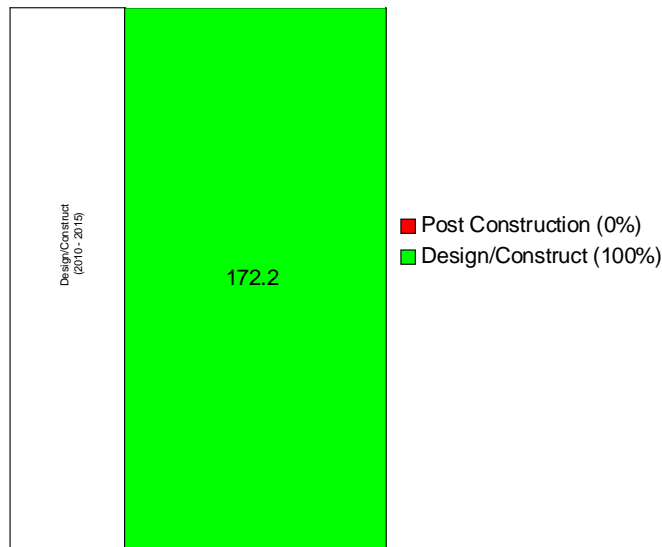
Maximum Price – Funding Sources (\$ in Millions)

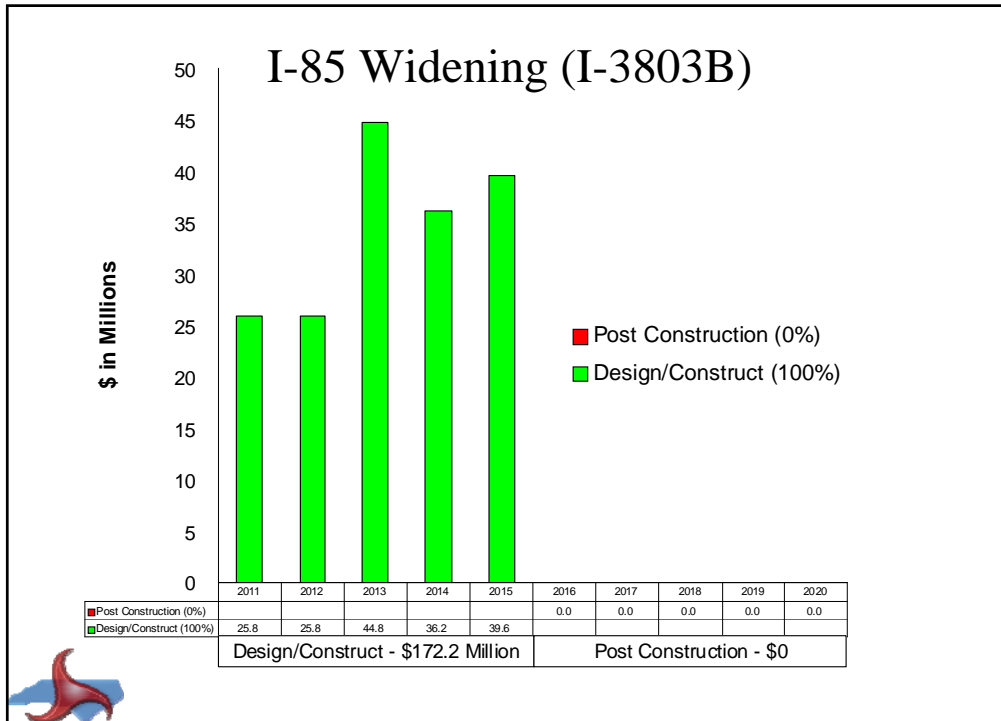
	Maximum Prices	Funding Sources		
		Contractor	GARVEE	Trust Fund
I-85 Widening (I-3803B)	\$172	0	\$150	\$22
I-485 Loop (R-2248E)	\$155	\$25	\$50	\$80
I-485 Interchange (R-2123CE)	\$131	\$25	\$50	\$56
Total	\$458	\$50	\$250	\$158



I-85 Widening (I-3803B)

Total \$172.2 Million





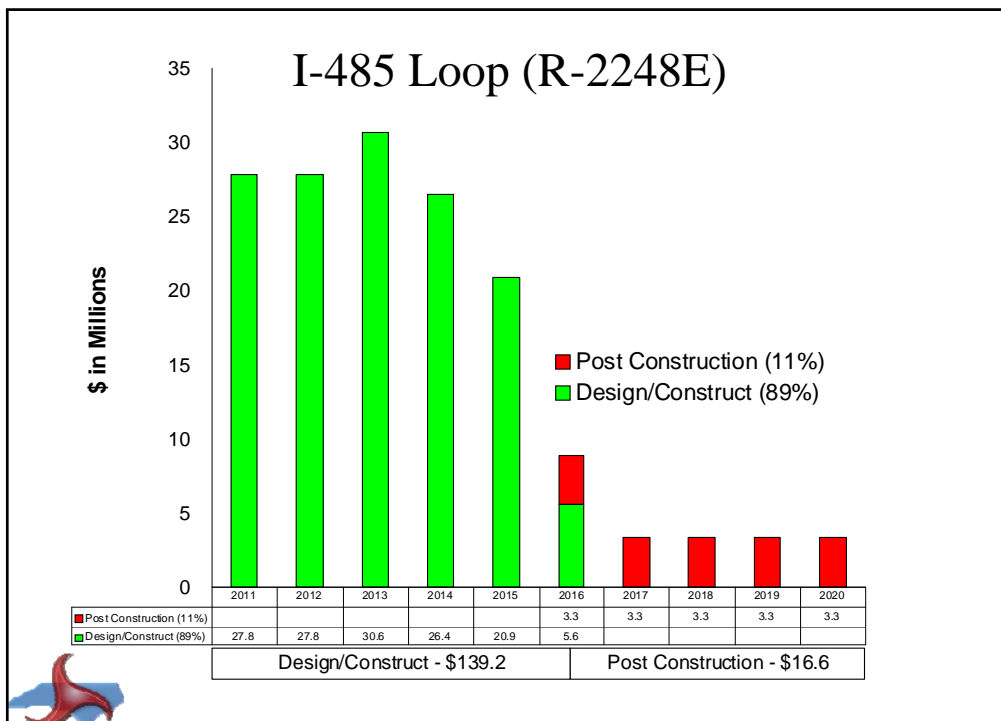
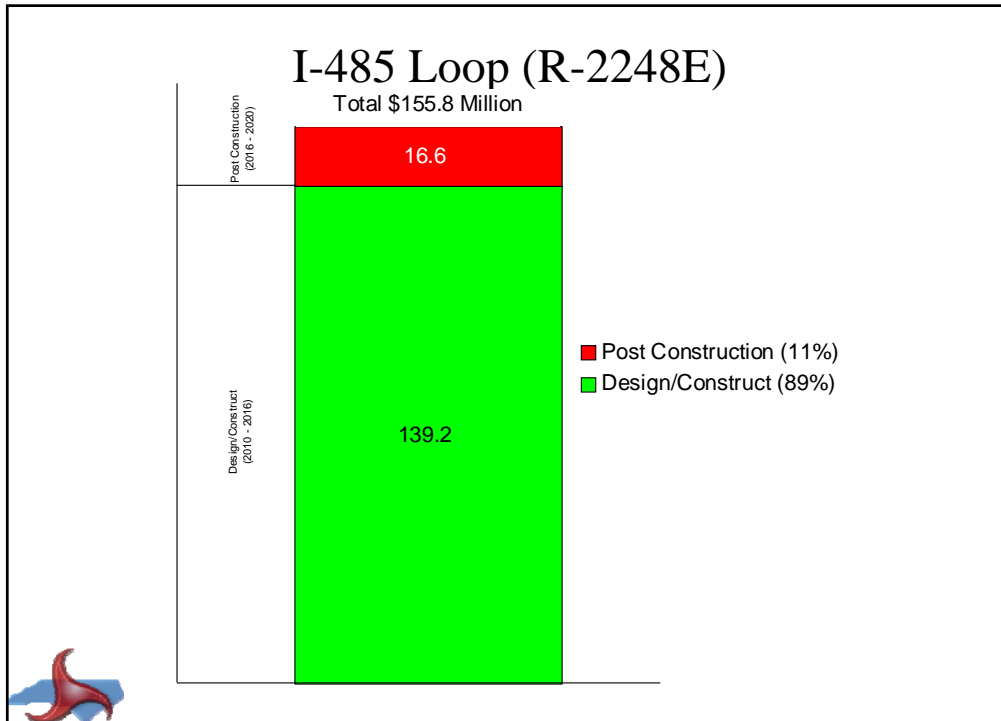
I-85 Widening (I-3803B)

DESIGN/CONSTRUCT - \$ Millions

		SFY Quarter				Total
		1	2	3	4	
2011	%	7.0	3.0	2.0	3.0	15.0 %
	\$	12.1	5.2	3.4	5.2	25.8
2012	%	4.0	3.0	2.0	6.0	15.0 %
	\$	6.9	5.2	3.4	10.3	25.8
2013	%	8.0	6.0	4.0	8.0	26.0 %
	\$	13.8	10.3	6.9	13.8	44.8
2014	%	8.0	5.0	3.0	5.0	21.0 %
	\$	13.8	8.6	5.2	8.6	36.2
2015	%	8.0	5.0	6.0	4.0	23.0 %
	\$	13.8	8.6	10.3	6.9	39.6
Total	%					100.0 %
	\$					172.2

POST CONSTRUCTION - \$ Millions

		SFY Quarter				Total
		1	2	3	4	
2016	%	0.0	0.0	0.0	0.0	0.0 %
	\$	0.0	0.0	0.0	0.0	0.0
2017	%	0.0	0.0	0.0	0.0	0.0 %
	\$	0.0	0.0	0.0	0.0	0.0
2018	%	0.0	0.0	0.0	0.0	0.0 %
	\$	0.0	0.0	0.0	0.0	0.0
2019	%	0.0	0.0	0.0	0.0	0.0 %
	\$	0.0	0.0	0.0	0.0	0.0
2020	%	0.0	0.0	0.0	0.0	0.0 %
	\$	0.0	0.0	0.0	0.0	0.0
Total	%					0.0 %
	\$					0.0



I-485 Loop (R-2248E)

DESIGN/CONSTRUCT - \$ Millions

		SFY Quarter				
		1	2	3	4	Total
2011	%	6.3	3.6	2.7	5.4	17.9 %
	\$	9.7	5.6	4.2	8.4	27.8
2012	%	5.4	2.7	2.7	7.1	17.9 %
	\$	8.4	4.2	4.2	11.1	27.8
2013	%	8.0	3.6	3.6	4.5	19.7 %
	\$	12.5	5.6	5.6	7.0	30.6
2014	%	6.3	3.6	3.6	3.6	17.0 %
	\$	9.7	5.6	5.6	5.6	26.4
2015	%	6.3	2.7	2.7	1.8	13.4 %
	\$	9.7	4.2	4.2	2.8	20.9
2016	%	2.7	0.9	0.0	0.0	3.6
	\$	4.2	1.4	0.0	0.0	5.6
Total	%					89.4 %
	\$					139.2

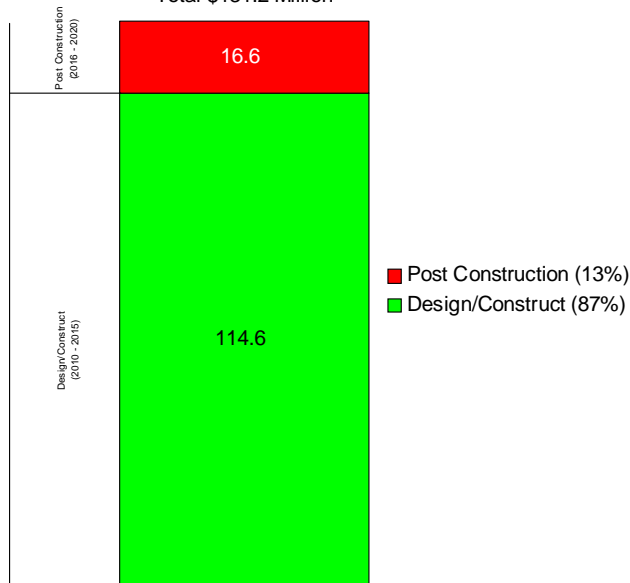
POST CONSTRUCTION - \$ Millions

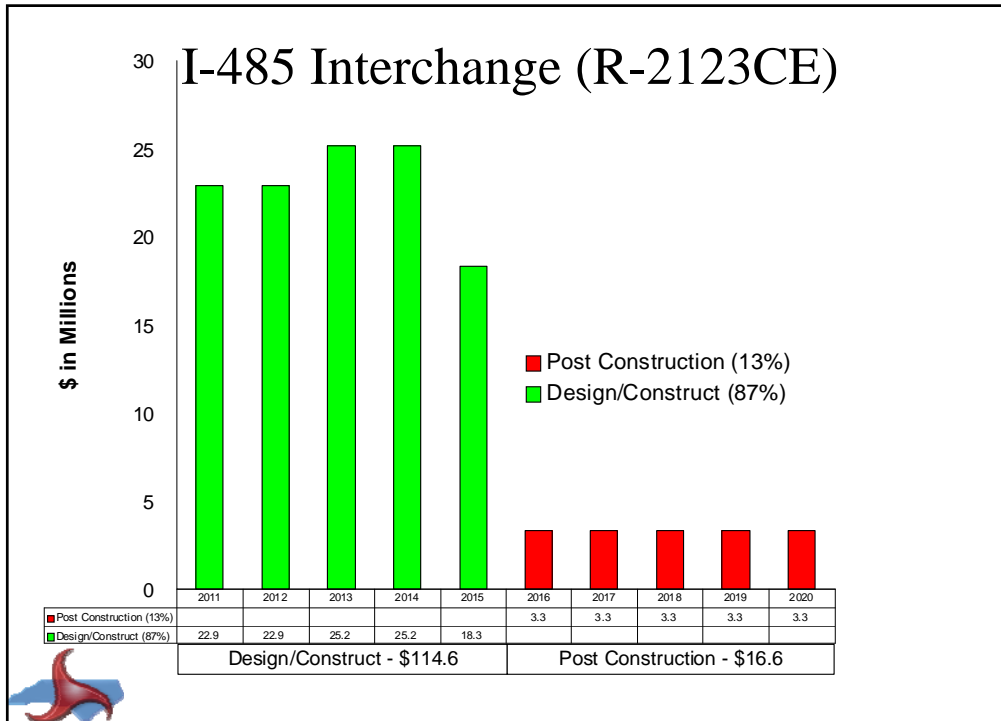
		SFY Quarter				
		1	2	3	4	Total
2016	%	0.0	2.1	0.0	0.0	2.1 %
	\$	0.0	3.3	0.0	0.0	3.3
2017	%	0.0	2.1	0.0	0.0	2.1 %
	\$	0.0	3.3	0.0	0.0	3.3
2018	%	0.0	2.1	0.0	0.0	2.1 %
	\$	0.0	3.3	0.0	0.0	3.3
2019	%	0.0	2.1	0.0	0.0	2.1 %
	\$	0.0	3.3	0.0	0.0	3.3
2020	%	0.0	2.1	0.0	0.0	2.1 %
	\$	0.0	3.3	0.0	0.0	3.3
Total	%					10.6 %
	\$					16.6



I-485 Interchange (R-2123CE)

Total \$131.2 Million





I-485 Interchange (R-2123CE)

DESIGN/CONSTRUCT - \$ Millions

		SFY Quarter				Total
		1	2	3	4	
2011	%	7.0	2.6	2.6	5.2	17.5 %
	\$	9.2	3.4	3.4	6.9	22.9
2012	%	5.2	2.6	2.6	7.0	17.5 %
	\$	6.9	3.4	3.4	9.2	22.9
2013	%	7.0	3.5	3.5	5.2	19.2 %
	\$	9.2	4.6	4.6	6.9	25.2
2014	%	7.0	3.5	3.5	5.2	19.2 %
	\$	9.2	4.6	4.6	6.9	25.2
2015	%	7.0	7.0			14.0 %
	\$	9.2	9.2			18.3
Total	%					87.4 %
	\$					114.6

POST CONSTRUCTION - \$ Millions

		SFY Quarter				Total
		1	2	3	4	
2016	%	0.0	2.5	0.0	0.0	2.5 %
	\$	0.0	3.3	0.0	0.0	3.3
2017	%	0.0	2.5	0.0	0.0	2.5 %
	\$	0.0	3.3	0.0	0.0	3.3
2018	%	0.0	2.5	0.0	0.0	2.5 %
	\$	0.0	3.3	0.0	0.0	3.3
2019	%	0.0	2.5	0.0	0.0	2.5 %
	\$	0.0	3.3	0.0	0.0	3.3
2020	%	0.0	2.5			2.5 %
	\$	0.0	3.3			3.3
Total	%					12.6 %
	\$					16.6

North Carolina GARVEE Legislation

- **GARVEE Act - House Bill 254:**
 - Adopted in 2005
 - Authorized the issuance of bonds
 - Debt payable solely from future Federal Revenues
 - Finances improvements to the Federal Highway System
- **Coverage Levels**
 - Outstanding Principal may not exceed total Federal Transportation Funds authorized in the prior Federal Fiscal Year
 - Total Debt Service may not exceed 15% of the expected Annual Federal Transportation Funds in the most recently adopted Transportation Improvement Program (6.6x coverage)
- **Allows for Recurring Bond Issuance**
- **Requires Geographic Distribution of bond proceeds**



GARVEE Program Plan

Preliminary plan calls for bonds to be issued in multiple series:

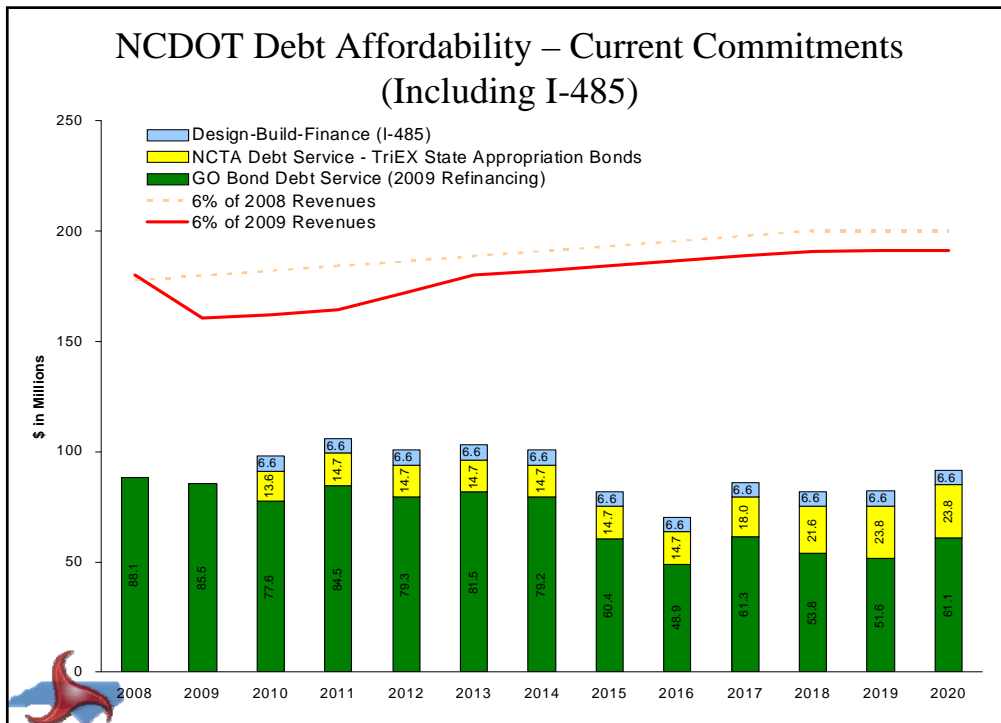
Issued:

		<u>Fitch</u>	<u>Moody's</u>	<u>S&P</u>
• 10/17/2007	287.6 million	AA-	Aa3	AA-
• 8/5/2009	242.5 million	AA-	Aa3	AA

Planned:

- 2011 319.0 million
- 2013 96.3 million
- **Received rating upgrade from S&P to AA for 2009 issue**
- **49 GARVEE Projects; 1,290.64M; 9.9% of total STIP Budget**
- **“Evergreen” Program — Flexibility in project selection and substitution**





- ## Finance Next Steps
- Financial Package for SOQs and Technical Proposals
 - Finance Questions and Answers



Division Goals & Objectives



Tawana Brooks
Division Construction Engineer



Disadvantaged Business Enterprise Goals

R-2248E:	15%
I-3803B:	14%
R-2123CE:	9%

DBE Industry Forum:

Anticipated mid - January in Charlotte



Project Synopses

R-2248E

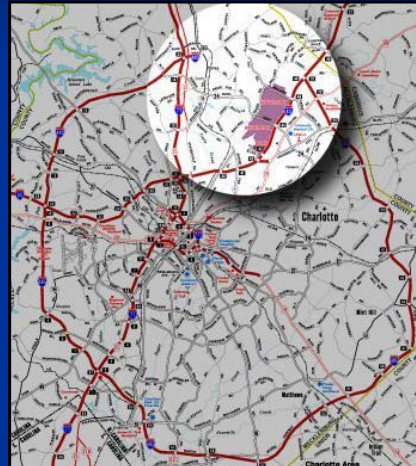
Nilesh Surti
Project Executive

I-3803B

Jackie Armstrong
Project Exec. Supervisor

R-2123CE

Tim McFadden
Project Exec. Supervisor



R-2248E Synopsis



I-3803B Synopsis



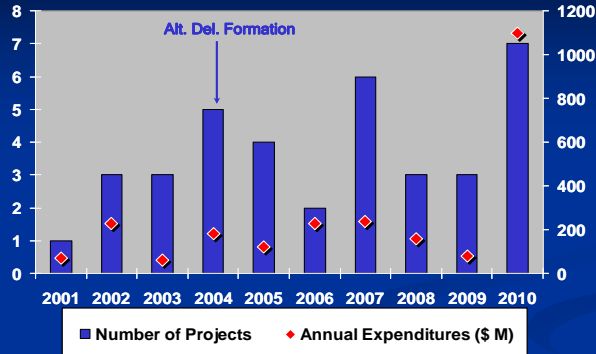
R-2123CE Synopsis

THIS VIDEO HAS BEEN CREATED AS A SUPPLEMENT TO THE DESIGN PLANS AND MAY NOT INCLUDE ALL ELEMENTS OF THE DESIGN. EVERY EFFORT HAS BEEN MADE TO PORTRAY THE DESIGN ACCURATELY. HOWEVER, ALL ELEMENTS MAY NOT REFLECT FINAL DESIGN. TRAFFIC SHOWN DOES NOT REPRESENT ACTUAL TRAFFIC CONDITIONS.





Design-Build Procurement Process



- Timeline and Evaluations
- Prequalification Requirements
- Statement of Qualifications
- Utility Coordination
- Conflict of Interest



R-2248E Timeline for Design-Build Team Selection Process

I-485 (Charlotte Outer Loop) from west of NC115 to west of I-85

11/16/2009

Request for Qualifications Advertisement	November 16, 2009
Industry Forum (optional)	December 3, 2009
Statement of Qualifications (SOQ) due back from Design-Build (DB) Teams	December 22, 2009
Department Announces Short-listed Teams	January 14, 2010
Department Provides Industry Draft RFP to DB Teams	January 15, 2010
Meeting with Short-listed Teams	February 4, 2010
Issue Second Industry Draft RFP	February 19, 2010
Second Meeting with Short-listed Teams	March 8, 2010
Issue Final RFP	March 23, 2010
Technical Proposals and Sealed Price Proposals Due	May 4, 2010
Technical Presentations by Short-listed Teams	May 20, 2010
Open Price Proposals	May 21, 2010
Notice of Award	May 28, 2010

NOTE: All dates are approximate and subject to change without notice.



Advertisement & Shortlisting

- **Technical Committee Reviews and Shortlists Based On Pre-determined Criteria:**
 - Project Understanding And Approach
 - Design-Build Project Team
 - Proposer's Capabilities
 - Quality Program
 - Safety Program



Evaluation & Determination of Adjusted Low Bidder

- **Following Technical Presentations, Technical Review Committee Completes Evaluation and Determines Consensus Score In Each Of Several Major Categories, as Defined In RFP, That May Include:**
 - Management
 - Responsiveness To Request For Proposals (DBE, Design, Natural Environment Responsibility, Aesthetics, Etc.)
 - Long Term Maintenance
 - Schedule And Milestones
 - Innovation
 - Maintenance Of Traffic And Safety Plan
 - Quality Plan
 - Technical Presentation
 - Warranty




Evaluation & Determination of Adjusted Low Bidder

- Evaluation Sessions Are Facilitated (Ex Officio) By Director Of Transportation Program Management and / or the Design-Build Project Engineer To Ensure Consistency In Evaluation Approach
- Scores are Confidentially Transmitted To State Contract Officer
- When Price Proposals are Opened, The State Contract Officer Determines The Quality Credit, The Adjusted Bids, and The Apparent Adjusted Low Bidder



Determination of Quality Credit & Adjusted Bids



- Maximum Quality Credit Is Defined In The RFP
 - Quality Credit - Prorated From 100 To 70
 - Technical Score Of 100 = Maximum Quality Credit
 - Technical Score Of 70 = 0% Credit
 - Maximum Quality Credit Typically Ranges From 15 - 30%



Example of Determination of Quality Credit & Adjusted Bids


Proposer	Technical Score	Quality Credit (%)	Price Proposal (\$)	Quality Credit	Adjusted Price (\$)
A	95	12.5	3,000,000	375,000	2,625,000
* B	90	10.0	2,700,000	270,000	2,430,000
C	70	0.0	2,600,000	0	2,600,000

* *Proposer B Has Lowest Adjusted Bid
(Based On 15% Maximum Quality Credit)*



Prequalification Requirements

- **Prior To SOQ Submittal Deadline**
 - Prime Contractor (S) Must Be Prequalified Individually
 - Lead Design Firm MUST Be Prequalified





Prequalification Requirements

- **Prior To Technical Proposal Submittal Deadline**
 - All Joint Ventures, LLCs, Or Any Legal Structure That Are Different Than The Existing Prequalification Status **MUST** Be Prequalified
 - Design Firms **SHOULD** Be Prequalified
 - If Design Firms Are Not Prequalified Prior To Submittal Of The Technical Proposal, The Prime Contractor Is Solely Responsible For:
 - Ensuring That The Design Firm Is Prequalified Prior To The First Design Submittal Or
 - Replacing That Firm With A Prequalified Firm
- **Subcontractors MUST Be Prequalified Prior To Performing Work**



Statement of Qualifications

- **Statements Of Qualifications That Exceed The Page Limits Or Violate The Section Format Instructions In The Request For Proposals WILL Be Rejected**
 - Font Size
 - Double Spacing
 - Fold Out Pages Not Allowed
- **Financial Qualifications Submitted Concurrently**



Utility Coordination

- Individual Pre-bid Meetings With The Utility Firms and Short-listed Design-build Teams
- Pass Through Non-betterment Utility Relocation Costs
- Water And Sewer Relocation/ Construction May Be Required



Conflict of Interest

- **Previous / Current Project Involvement**
 - Any Private Engineering Firm Under Contract, Or Previously Under Contract, With The NCDOT To Prepare Preliminary Plans, Planning Reports Of Other Project Development Products Will Not Be Allowed To Participate In Any Capacity – Reference The NCDOT Design-Build Policy & Procedures – October 4, 2007
 - Exceptions May Be Granted By The State Contract Officer, Upon Written Request From The Firm, And A Determination That The Involvement Does Not Constitute An Unfair Advantage
- **Ethics Contract Provision**

Questions?



Contact Us:

designbuild@ncdot.gov

Website:

http://ncdot.gov/doh/preconstruct/altern/design_build/

