



***Northern Virginia District  
DBE Design Workshop  
“Partnering for Success”  
June 2, 2009  
8am to 1pm***

***15010 Conference Center Drive  
Chantilly, Virginia 20151***

***Agenda***

8:00 – 9:00	Registration Coffee, Donuts and Networking	
9:00 – 9:15	Welcome	Leslie Martin
9:15 – 9:30	Program Overview	Steve Bates
9:30 - 10:00	Procurement Process	John Lynch
10:00 – 10:15	Break	
10:15 – 10:45	NoVA Mega Projects	John DePasquale Carolyn Wolcott
10:45 – 11:45	Prime Perspective	ACEC/Primes
11:45 – 1:00	Lunch and Networking	
1:00 – 1:15	Final Remarks	Leslie Martin



AMERICAN COUNCIL OF ENGINEERING COMPANIES  
*of Metropolitan Washington*

# Virginia Megaprojects and the General Engineering Consultant

June 2009

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## What are Megaprojects?

Megaprojects are large-scale projects distinguished by cost, complexity and the potential impact on the community.

Collectively, these projects represent several billion dollars in significant transportation improvements – all long overdue.

When completed, they will offer travelers more choices to reach their destinations.

## The Projects

- I-95 Widening
- Fairfax County Parkway
- I-495 (High Occupancy Toll) HOT Lanes
- Dulles Metro extension
- I-95/395 HOT Lanes

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## I-95 Widening

- Add a fourth lane in each direction of I-95
- Additional capacity will complement gains already achieved by the Springfield Interchange project



## I-95 Widening project schedule

Construction began March 2008 and will end in 2011.

The contract value is \$123 million.



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# Fairfax County Parkway Extension / BRAC

## Fairfax County Parkway (4 phases)

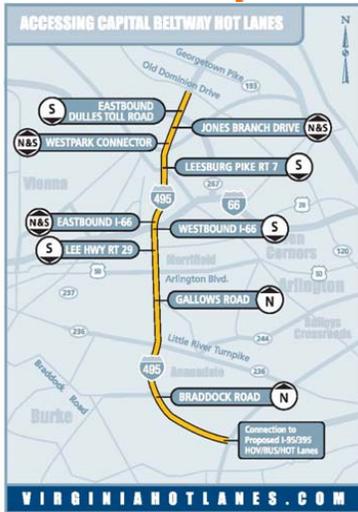
- Final two miles of Fairfax County Parkway
- Interchange at the Engineer Proving Ground access road
- Extension of Boudinot Drive with one ramp to southbound Parkway
- First two phases cost \$117 million, phases 3 and 4 are unfunded
- Estimated completion: late 2010



## I-95 Access Ramps to the Engineer Proving Ground (EPG)

- Proposed ramps would reduce traffic volume on the Fairfax County Parkway and allow more efficient travel when Fort Belvoir realignment takes effect.
- The cost is to be determined
- Construction timeline: mid-2009 to 2011

## I-495 High Occupancy Toll



- Two new lanes in each direction
- First-time introduction of High Occupancy Vehicle (HOV) access to the Capital Beltway
- Pedestrian and bicycle access
- Replace more than \$260 million of aging infrastructure, including more than 50 bridges and overpasses

North Access only Full North-South Connection South Access only

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## I-495 project schedule

- Build outer two lanes: 2008 – 2011
- Rebuild/lengthen all bridges & overpasses along alignment: 2008 – 2011
- Shift traffic into two new outer lanes: 2011
- Construction on inner two HOT lanes: 2011 – 2012
- Projected HOT Lanes opening – Early 2013
- Project cost: \$1.4 billion

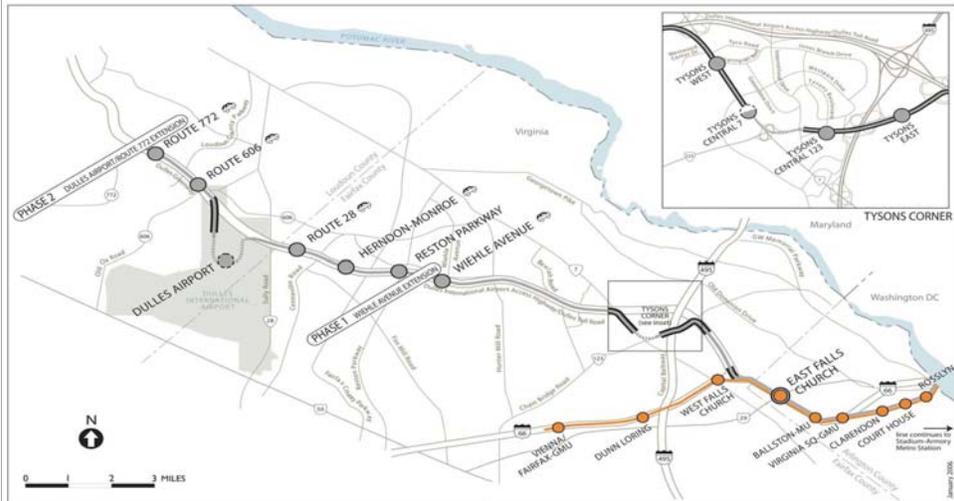


## Dulles Metrorail Extension

- 23-mile new Metrorail line to the Dulles International Airport
- 11 new stations
  - 5 stations in Phase 1 with a completion date of mid 2013
    - Phase 1 Cost: \$2.6 billion
  - 6 stations in Phase 2 with a completion date of 2015
- Seamless integration with current 106-mile system
- Approx. 50 percent of Tysons commuters originate from eastern points accessible to existing metro rail



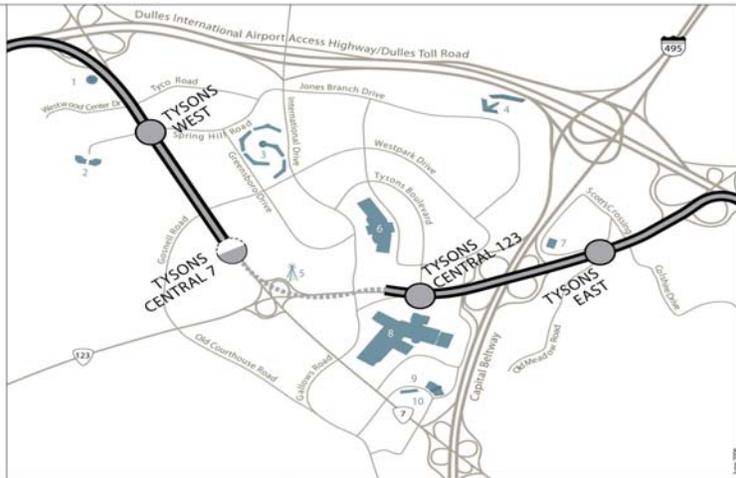
# Dulles Metrorail route map



# A closer look at Tysons Corner stations

## TYSONS CORNER LANDMARKS

- 1 Sheraton Premiere
- 2 Dulles Metrorail Project Office
- 3 The Rotonda Condominiums
- 4 Gannett/USA Today
- 5 Communications Tower
- 6 Tysons Galleria/Ritz Carlton
- 7 Capital One
- 8 Tysons Corner Center
- 9 Tycon Towers
- 10 Tysons Marriott



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## I-95/395 HOV/Bus/HOT Lanes



- Expand existing 28-mile I-95/395 HOV lanes from two to three lanes
- Extend HOV to Stafford and Spotsylvania
- Improve HOV service with new access points, increased enforcement and improved incident response
- Provide new choice for drivers to pay toll on occasion for faster more reliable travel
- Create seamless regional HOV network
- \$195 million concessionaire payment to fund transit improvements such as Park & Ride lots, new buses and bus routes

## I-95/395 project status

### **Northern section**

- ✓ Federal environmental approval received
- ✓ Regional transit study complete;  
bus rapid transit station study starting soon
- ✓ Public hearings scheduled for Feb. 2009
- Financial close Fall 2009, construction late 2009/ early 2010



### **Southern section**

- Environmental review underway – targeting spring 2010
- Financial close – targeting late 2010
- Construction 2011

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## The Role of the GEC

- General Engineering Consultant (GEC)
- Management and administration of the \$6 billion Virginia Megaprojects program
- Program administration
- Project management
- Quality assurance

## The GEC Organization

- Joint venture of ATCS and CH2M HILL
- 24 technical and specialty sub-consultants
- Integrated team with core VDOT staff
- 65 percent SWaM and DBE
- Matrix structure
  - Administration
    - Administrative Support
    - **Civil Rights**
    - Delivery
    - Controls
    - TOMP
    - Communications
  - Operations
    - Projects

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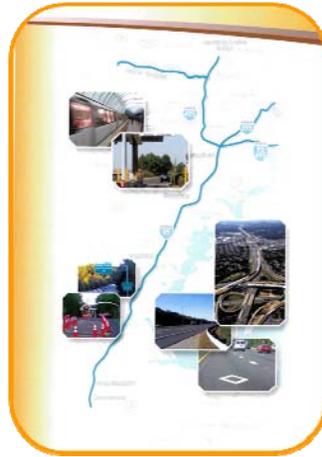
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## How the program is administered

- Established Annual Work Plan (AWP)
  - ❑ July 1 through June 30
  - ❑ Program scope of services
  - ❑ Program budget
  - ❑ Approved by VDOT and FHWA
- AWP 1
  - ❑ 11 separate tasks
  - ❑ Task scope of services
  - ❑ Task budget
  - ❑ Define deliverables
  - ❑ Define current and projected staff



## GEC Scope of Service – Administration

- Program administration
  - Administrative staff
  - IT
  - Finance and accounting
  - Procurement
  - Internal audit
- Program delivery
  - Staffing
  - Safety
  - Technical engineering pool
  - Special projects
  - Forecasting



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## GEC Scope of Service – Administration

### Transportation Management Plan

- Transportation management strategies
- Work Zone Safety and Mobility Rule (the Rule) September 2004
- Incident management
- Improve traffic flow
- Alternative commute options



### Communication

- Public outreach
- Stakeholder meetings
- Project information

## GEC Scope of Service - Operations

- Project Management
- Traditional QC Inspection
  - I-95 Widening
- Field Quality Assurance-IA/IV
  - I-495 HOT Lanes
  - Dulles Metro extension
  - Fairfax County Parkway (BRAC)
  - I-95/395 HOT Lanes
- Engineering
  - Shop Drawing Review
  - Design QA
  - Compliance
  - Exceptions and Waivers

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## GEC Scope of Service - Technical Services

- Roadway/ civil/ design
- Drainage design
- Structures and bridge design
- Utilities and sub-surface engineering
- Environmental
- Geotechnical
- Traffic engineering
- Right-of-way
- Permits



## Construction Services



- Construction management and engineering
- Quality assurance
- Independent assurance/independent verification
- Environmental compliance
- Maintenance of traffic

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## Challenges

- Creating a self sufficient organization while performing the work
- Integrating several large organizations with competing goals
  - ❑ VDOT and GEC
  - ❑ Design-builder
  - ❑ Participating agencies
  - ❑ Local stakeholders
- Multiple delivery methods within the program
- Defining quality assurance
- Organizational flexibility

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**Thank you for  
your time.**

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# Virginia MegaProjects Civil Rights

**Carolyn Wolcott**

*VA Megaprojects GEC Civil Rights Manager*

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# The Projects

- Dulles Metrorail Extension
- I-95 Widening
- Fairfax County Parkway Extension
- I-495 (High Occupancy Toll) HOT Lanes
- I-95/395 HOT Lanes
- Telegraph Road Project WWB

# Telegraph Road Interchange

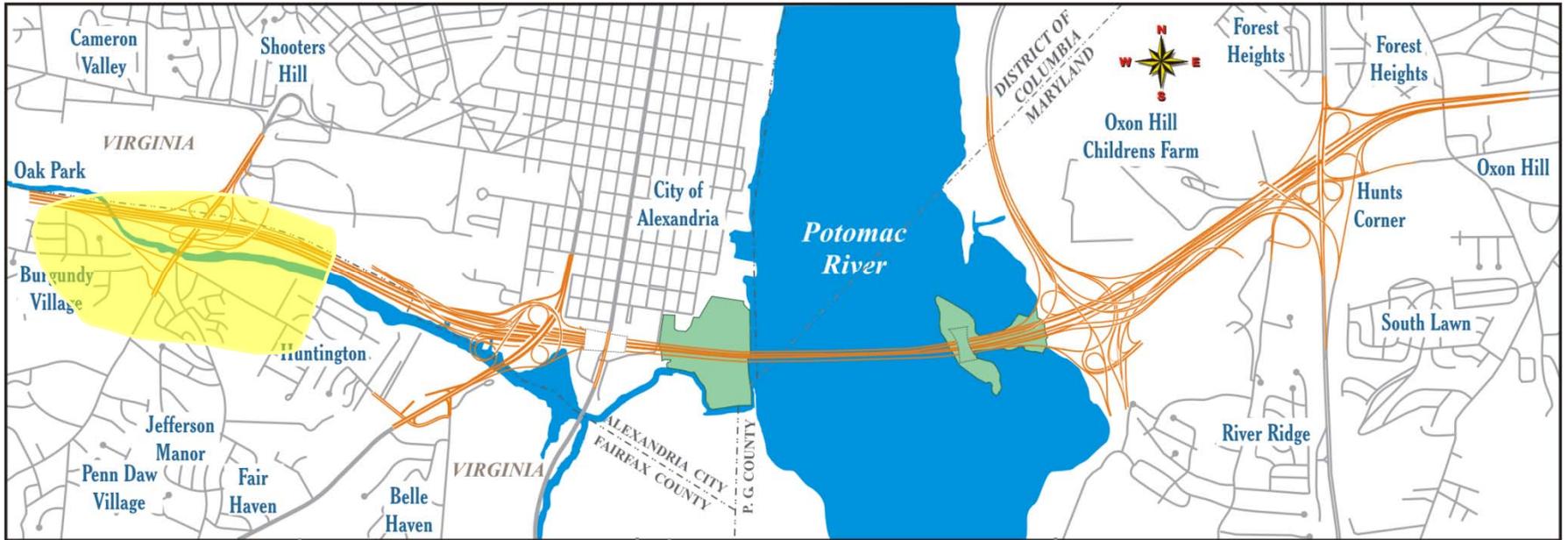
## Prime Contractor – CK Constructors

- Final major contract of the Woodrow Wilson Bridge project
- Rebuild the I-95 interchange at Telegraph Road
- Provide uninterrupted traffic flows and safer pedestrian access
- Widen two miles of I-95/495 Capital Beltway

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# Telegraph Road work zone



Telegraph  
Road

US Route 1

River crossing

I-295

MD-210

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# DBE/SWaM Participation Goals



- Dulles Metrorail Extension ~ 10%/None
- I-95 Widening ~ 15%/Voluntary Participation
- Fairfax County Parkway Extension ~ 10%/15%
- I-495 HOT Lanes ~ 15%/25%
- I-95/395 HOT Lanes ~ 15%/25% (pending approval)
- Telegraph Road Interchange ~ 15%/25%

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# Virginia MegaProjects Important Websites and Contacts

- [www.dullestransitpartners.com](http://www.dullestransitpartners.com) – Dulles Metrorail Extension website  
Dulles Transit Partners ~ Felicia Bell 703-852-5848
- [www.virginiahotlanes.com](http://www.virginiahotlanes.com) - I 495 Capital Beltway HOT Lanes Project website  
Fluor-Lane, LLC ~ Edgar Bernard 571-489-4641

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# Virginia MegaProjects Important Websites and Contacts (cont'd)

- <http://vamegaprojects.com/projectSummary03.html> -  
I 95/395 HOT Lanes Project website  
Fluor Enterprises, Inc. ~ Sam Muench 703-820-4840,  
ext. 3602
- [www.fairfaxcountyparkway.org](http://www.fairfaxcountyparkway.org) - Fairfax County  
Parkway Extension Project website  
Cherry Hill Construction ~ Leslie Gonzalez 703-440-  
9081

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# Virginia MegaProjects Important Websites and Contacts (cont'd)

- [http://www.virginiadot.org/projects/northernvirginia/i-95\\_fourth\\_lane\\_widening.asp](http://www.virginiadot.org/projects/northernvirginia/i-95_fourth_lane_widening.asp) - I 95 Widening Project website  
Shirley Contracting ~ Chuck Smith 703-550-3554
- <http://www.wilsonbridge.com/cp-telegraphRd2.htm> -  
WWB Telegraph Road Interchange  
CK Constructors ~ Rick Richardson 703-317-8601

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# Virginia MegaProjects Civil Rights Program

Responsibilities include:

- Provides certification and prequalification assistance
- Manages outreach for each of the MegaProjects – matching opportunities with qualified contractors and consultants

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# Virginia MegaProjects Civil Rights Program (cont'd)

- Offers assistance and support (for DBEs and SWaM vendors) for plan and technical review of bid packages
- Offers assistance and support (for DBEs and SWaM vendors) with RFP language, as well as contract review once LOIs are issued

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# Virginia MegaProjects Civil Rights Program (cont'd)

- Offers workshops, conferences, technical assistance and other support through the Business and Support Services (BASS) Program
- Participates in Workforce Development initiatives to ensure a qualified pool of workers for the future

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# Virginia MegaProjects Civil Rights Program Outreach Team

- Carolyn Wolcott, Civil Rights Program Manager
- Pawnee Wentt, Civil Rights Asst. Program Manager
- Jennifer Mingo, Executive Assistant
- Joe Lewis, Consultant
- Wendell Point, Consultant
- Nalin Jain, Consultant
- Linda Butler, Admin Assistant

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# Virginia MegaProjects Civil Rights Program Outreach Team

With other staff participation and support:

- Terry Garrett, DBE Program Consultant/Field Technician
- Gail Bassett, Capacity Building Consultant/BASS Program Lead
- Rob Lancaster, PE, Consultant
- Sean O'Day, Contracts Consultant

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**Total DBE and SWaM  
Commitments on these  
MegaProjects to date:  
(approximately)**

**\$300,000,000**

***More opportunities  
are on the horizon!***

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**2009 DBE Workshop  
Partnering for Success**

**June 2, 2009  
Northern Virginia District**



*WELCOME*  
*Northern Virginia District*



*Northern Virginia*



*Leslie E. Martin*  
*District Civil Rights Manager*

*Northern Virginia*



*Stephen L. Bates, P.E.  
Acting Location & Design Engineer*

# Workshop Overview

- **Objective: Partner for success through communication and cooperation by providing information and guidance on the procurement process.**
- **Networking with Prime Consultant Firms.**
- **Procurement Overview.**
- **Prime Perspective to Teaming and Partnering.**
- **Opportunities to Obtain information on all aspects of procurement.**

## Critical Delivery Projects in NoVA District

- **I-66 Spot Improvements**
- **Route 50/Courthouse Road**
- **Route 28 / Wellington Road**
- **Fairfax County Parkway / Fairlakes Interchange**
- **Route 27 / Route 244 Interchange**
- **Route 50 Widening**
- **Gainesville Advance Detour**
- **Pacific Boulevard**

## Recent Communications

**2008 Road & Bridge Standards website (April 2009 Insertable Sheets List)**

[http://www.virginiadot.org/business/locdes/2008\\_road\\_and\\_bridge\\_standards.asp](http://www.virginiadot.org/business/locdes/2008_road_and_bridge_standards.asp)

**CD-2009-01 Maintenance of Traffic on Construction Projects**

<http://www.virginiadot.org/business/resources/const/cdmemo-0901.pdf>

**CD-2009-02 FIELD CHANGE DOCUMENTATION**

<http://www.virginiadot.org/business/resources/const/cdmemo-0902.pdf>

**CD-2009-03 PROFESSIONAL LICENSURE AND SEALING AND SIGNING OF PLANS**

<http://www.virginiadot.org/business/resources/const/cdmemo-0903.pdf>

*Northern Virginia*



*John D. Lynch, P.E.  
Assistant District Administrator - Construction*

# Procurement Process Overview

This portion of the workshop will specifically touch on our procurement process including:

- **Determining Need for Outside Services.**
- **Activities before the RFP is issued.**
- **The Advertisement Process.**
- **Getting to the Shortlist.**
- **The Shortlist.**
- **The Interview.**
- **Selection & Award.**
- **The Contract and Notice to Proceed.**
- **Project Execution.**

# Determining the Need for Outside Services

- **How we determine what projects are consultant procurement.**
  - Available Personnel verse anticipated work load.
  - Degree of specialization required by project.
- **How Consultants can determine projects coming out.**
  - Review of SYIP
  - VDOT Web Site:  
[http://www.virginiadot.org/business/ipd\\_upcoming\\_consultant\\_contracts.asp](http://www.virginiadot.org/business/ipd_upcoming_consultant_contracts.asp)
  - Visits to VDOT Offices.

# Determining the Need for Outside Services

<b>Project</b>	RTE 621 - WIDEN TO 4 LANES							
<b>Scope of Work</b>								
<b>Description</b>	FROM: 234 BUSINESS; TO: 234 BYPASS							
<b>Report Note</b>	State funds - AC for future federal conversion							
<b>Fund Source</b>								
<b>Project Location</b>				<b>Estimates &amp; Schedule</b>				
<b>District</b>	Northern Virginia	<b>Jurisdiction</b>	Prince William County		<b>Estimated Cost</b>	<b>Schedule</b>		
<b>Program/System</b>	Secondary	<b>Length</b>	2.3000 MI	<b>Prelim. Eng. (PE)</b>	\$2,859,000	Underway		
<b>Route</b>	0621	<b>Street</b>	BALLS FORD RD	<b>Right-of-Way (RW)</b>	\$7,288,989	FY2011		
<b>MPO Area</b>	Northern Virginia			<b>Construction (CN)</b>	\$17,347,660	FY2013		
<b>Zip Code</b>				<b>Total Estimate</b>	\$27,495,649			
<b>Required Allocations</b>								
	<b>Previous Allocations</b>	<b>FY2008</b>	<b>FY2009</b>	<b>FY2010</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>	<b>Required After 2013</b>
<b>Fund Sources</b>	Values in Thousands							
.Formula - Secondary: .Federal: Secondary Formula - STP : Prince William	\$0	\$0	\$0	\$0	\$123	\$123	\$121	
.Formula - Secondary: .Federal: Secondary Formula - EB(MG) : Prince William	\$0	\$0	\$0	\$170	\$512	\$646	\$614	
.Formula - Secondary: .State Match: Secondary Formula - Match : Prince William	\$0	\$0	\$0	\$43	\$159	\$192	\$184	
.Formula - Secondary: .State: Secondary Formula - State : Prince William	\$0	\$0	\$2,738	\$4,568	\$4,760	\$4,479	\$3,521	
.Federal STP: .Federal: Federal Formula STP - Secondary : Prince William	\$0	\$0	\$0	\$0	\$409	\$417	\$425	
RSTP (STP Regional): .Statewide: A:Federal RSTP	\$4,888	\$0	\$0	\$0	\$0	\$0	\$0	
State Match Non-Formula: Statewide - State: State Match Off the Top	\$1,222	\$0	\$0	\$0	\$0	\$0	\$0	
.Formula - Secondary: .Federal/State: Federal/State - Prince William	\$1,342	\$0	\$0	\$0	\$0	\$0	\$0	
.Formula - Secondary: .Federal: Secondary Formula - IM to STP : Prince William	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
.Federal STP: .Bond Match: Federal Formula - Secondary Bond Match : Prince William	\$0	\$0	\$0	\$0	\$102	\$104	\$106	
<b>Total Funding</b>	<b>\$7,452</b>	<b>\$0</b>	<b>\$2,738</b>	<b>\$4,781</b>	<b>\$6,065</b>	<b>\$5,961</b>	<b>\$4,971</b>	<b>(\$4,472)</b>

## Activities before the RFP is issued

- Review SYIP Projects to determine In-House or Consultant.
- Prioritize Projects for Advertisement.
- Complete Scoping Document.
- Determine RFP Scope (i.e. Who does what).
- Obtain Approval to Use Consultant (AS-58).
- Setup Selection Committee.
- Develop RFP.
- Advertise RFP.

# The Advertisement Process

- **RFP Advertised in Newspaper, Virginia Business Opportunities and VDOT WEB.**
- **Qualifications based solicitation with narrative, DBE participation form, selection criteria, unique capability or qualifications required.**
- **254/255 based with other information requirements, both agency and project specific.**
- **Typically open for 3-4 weeks.**
- **Qualification information includes organizational structure, experience of key personnel, project experience, ability to meet schedule, percent work of each firm for example.**

## Getting to the Shortlist

- **Selection Committee reviews expressions of interest and scores individually.**
- **Selection criteria based on competitive negotiation (experience, staffing, etc, but not price) in accordance with the Virginia Public Procurement Act, Section 11-37.**
- **Other evaluation criteria include understanding of the project, use of sub consultants, familiarity with federal, state and local standards and requirements, and current workload with the Department.**
- **Shortlist is developed in conjunction with Administrative Services Division who facilitates the shortlist process.**
- **The Shortlist is published once approved.**

# The Interview

- **Short listed Firms are Interviewed.**
- **Interview consists of formal presentation followed by Q&A.**
- **Detailed questions are prepared in advance and all firms are asked the same questions.**
- **Team Leaders should be present including sub consultants.**
- **Details of presentation and responses to prepared questions along with the qualifications package are used to determine selected firm.**

## Selection & Award

- Selection completed after interview process.
- Details of presentation and responses to prepared questions along with the qualifications package are used to determine selected firm.
- Narratives are developed for each shortlist firms listing strengths and weaknesses of each team.
- Technical, organization, performance, presentation approach, staffing, workload, qualifications are all on the table.
- Award process includes selection, approval, notification and debriefs.
- Approved FAR Audit.

# The Contract and Notice to Proceed

- **Proposal kick-off Meeting with initial contract terms provided.**
- **PM and District negotiate scope of work and hours based on independent estimate and project needs.**
- **Attorney General's Office review of MOA and pre-award audit conducted and funding verified.**
- **Two copies sent to Consultant for review and signature.**
- **Commissioner signs agreement, executing document.**
- **Written NTP provided and project kick-off meeting scheduled.**
- **Detailed project schedule, deliverables and design criteria established.**

For details of process see link below for 2007 Manual for the Procurement of Management and Professional Services:

[http://www.virginiadot.org/business/resources/2007Manual\\_Final\\_070920.pdf](http://www.virginiadot.org/business/resources/2007Manual_Final_070920.pdf)

# Project Execution

- **Progress Reports are submitted monthly as required by contract.**
- **The progress percent complete from the design progress schedule is the net fee billed, not percent spent.**
- **Do not perform work outside the contract without an executed supplemental agreement or written approval from the Chief Engineer.**
- **Separate cost accounts are maintained for errors and omissions and the rework and/or corrections are summarized separately. These are not to be billed to the Department, as required by contract.**
- **Design Support during construction is needed.**
- **Consultant Designer is responsible for Quality Control (Checking). Designer and VDOT PM must resolve issues brought up during the plan review process and document the resolution.**
- **Design support during construction.**



***BREAK***  
*Northern Virginia*



*A Mobility Company*

*Efficiencies*  
*Partnerships*  
*Customer Service*

*Northern Virginia*



*John DePasquale, P.E./Carolyn Wolcott  
NOVA Mega Projects*

The logo for ACEC (Association of Consulting Engineers Canada) features the letters 'ACEC' in a large, white, serif font. The letters are set against a blue rectangular background that has a white, curved, dashed line arching over the top. The entire logo is positioned on a white background with a blue and orange decorative border on the left side.

# ACEC

## **Prime Panel Discussion: ACEC Panel Members**

Peter Bonacorsi – HNTB  
Jennifer Groat – CH2M-Hill  
Fred Wiler – A. Morton Thomas  
Simon Simon – G&O  
Philios Angelides – Alpha Corporation  
Steve Walter – Parsons

## PANEL DISCUSSION

1. What does a Prime look for in a partner or team member in order to be successful during the procurement process and project execution?
2. What issues and/or concerns may arise in the submittal stage, presentation stage, award stage or during project execution that may cause a firm to lose a spot on the team?
3. How can DBE firms market themselves effectively?
4. What technical areas are not represented well? Over represented?
5. Are Subconsultants effective in managing their work?



*Northern Virginia  
Open Discussion*



*A Mobility Company*

*Efficiencies  
Partnerships  
Customer Service*

*Northern Virginia  
Final Remarks*



*Leslie E. Martin  
District Civil Rights Manager*