



Planning and Development Committee

Board Information Action Item III

December 21, 2006

**Virginia Department of Transportation (VDOT)
Fiber Optics**

**Washington Metropolitan Area Transportation Authority
Board Action/Information Summary**

Action
 Information

MEAD Number:
99710

Resolution:
 Yes No

PURPOSE

To obtain Board approval to enter into a multi-part license agreement with Virginia Department of Transportation (VDOT).

DESCRIPTION

The license agreement with VDOT will allow WMATA to install fiber optic cable between Vienna and West Ox Road at I-66. It will include installation of the final link between I-66 and the West Ox Complex, as previously approved by the Board on January 19, 2006.

VDOT will provide interim redundancy between Vienna and Franconia, which is critical to WMATA train operations in the event of a catastrophic incident. The permanent cable will be replaced if the Beltway Hot Lanes are constructed between I-95/I-495/I395 and Route 193.

VDOT will provide six continuous dark fibers to WMATA for use from the Orange Line to Franconia/Springfield Station.

WMATA will allow VDOT to utilize the WMATA tunnel to run fiber optic cables on the Orange Line to their Command Center near the Pentagon Station.

Mutual benefits include: conductivity between Vienna Station and the West Ox Complex; temporary and permanent redundant communications for WMATA which connects Vienna Station to Franconia/Springfield Station; and, VDOT will have fiber capability on WMATA's Orange line between VDOT's Command Center and the Pentagon Metrorail Station.

FUNDING IMPACT

There is no impact on funding resulting from this agreement.

RECOMMENDATION

Board approval to execute license agreement with VDOT.



Virginia Department of Transportation (VDOT) Fiber Optics

Presented to the Board of Directors:

Planning and Development Committee

December 21, 2006



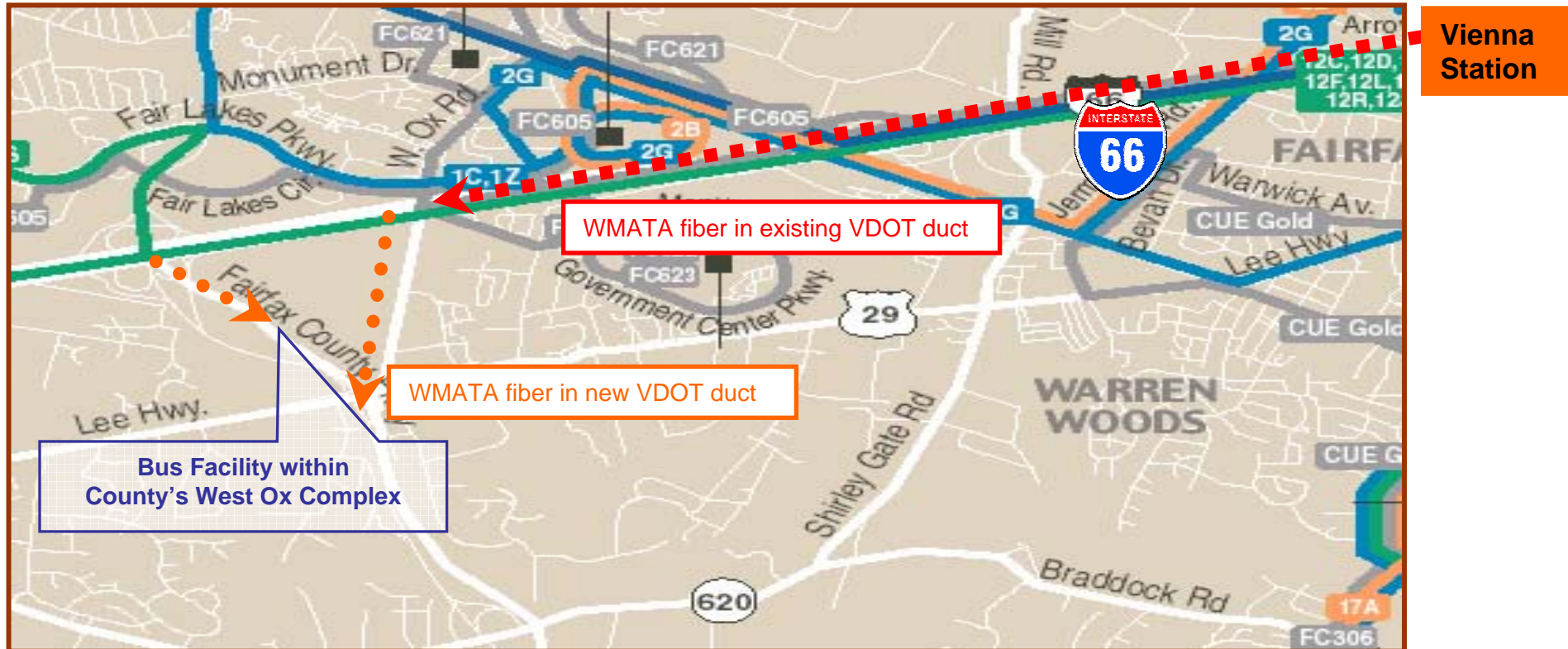


Purpose

- To obtain Board approval to enter into a multi-part, mutually beneficial license agreement with VDOT.



Discussion

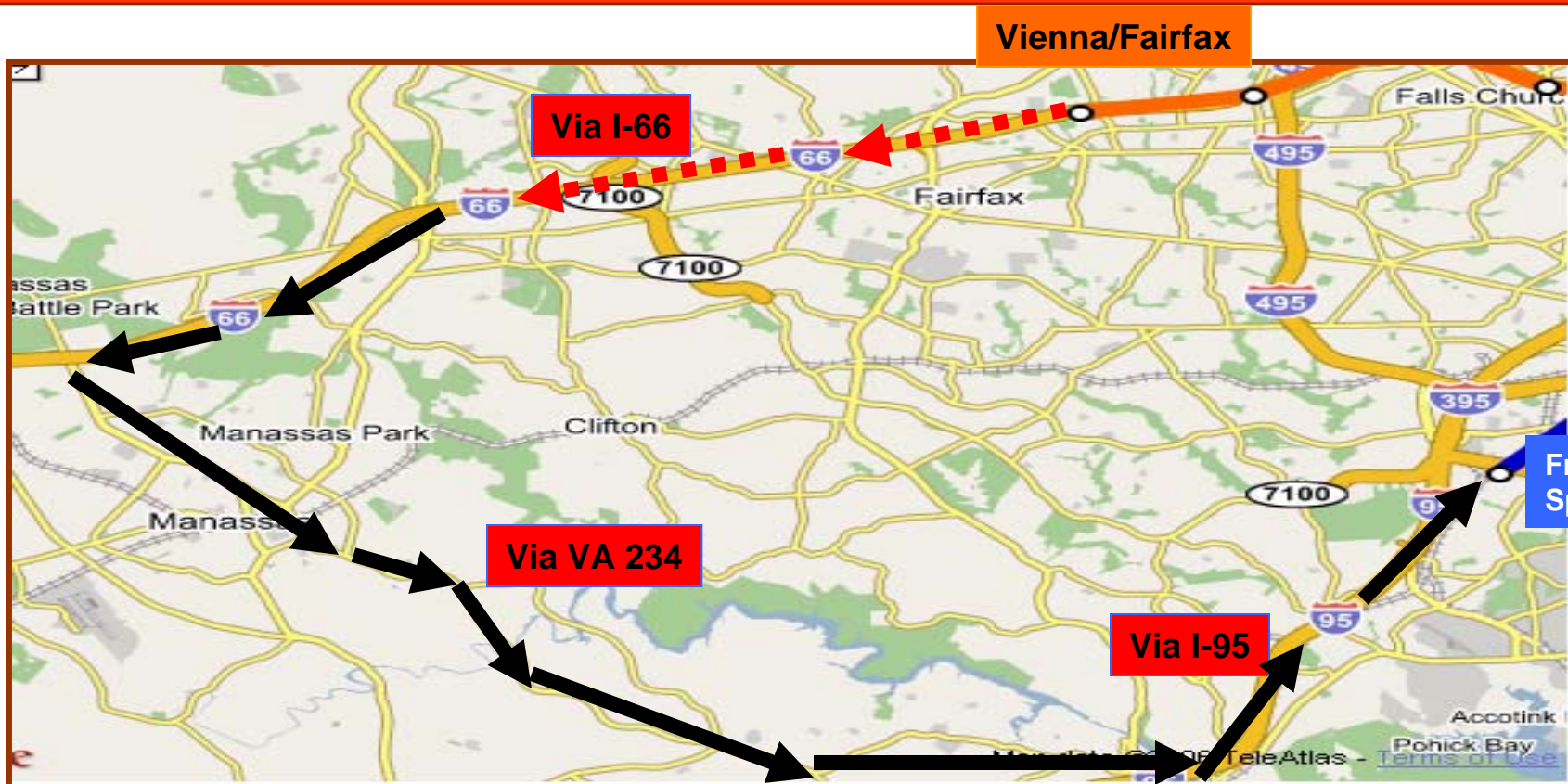


West Ox Bus Facility LAN link:

WMATA will install fiber optic cable between Vienna station and West Ox Road at I-66, including installation of the final link between I-66 and the West Ox Complex, as approved by the Board of Directors on January 19, 2006.



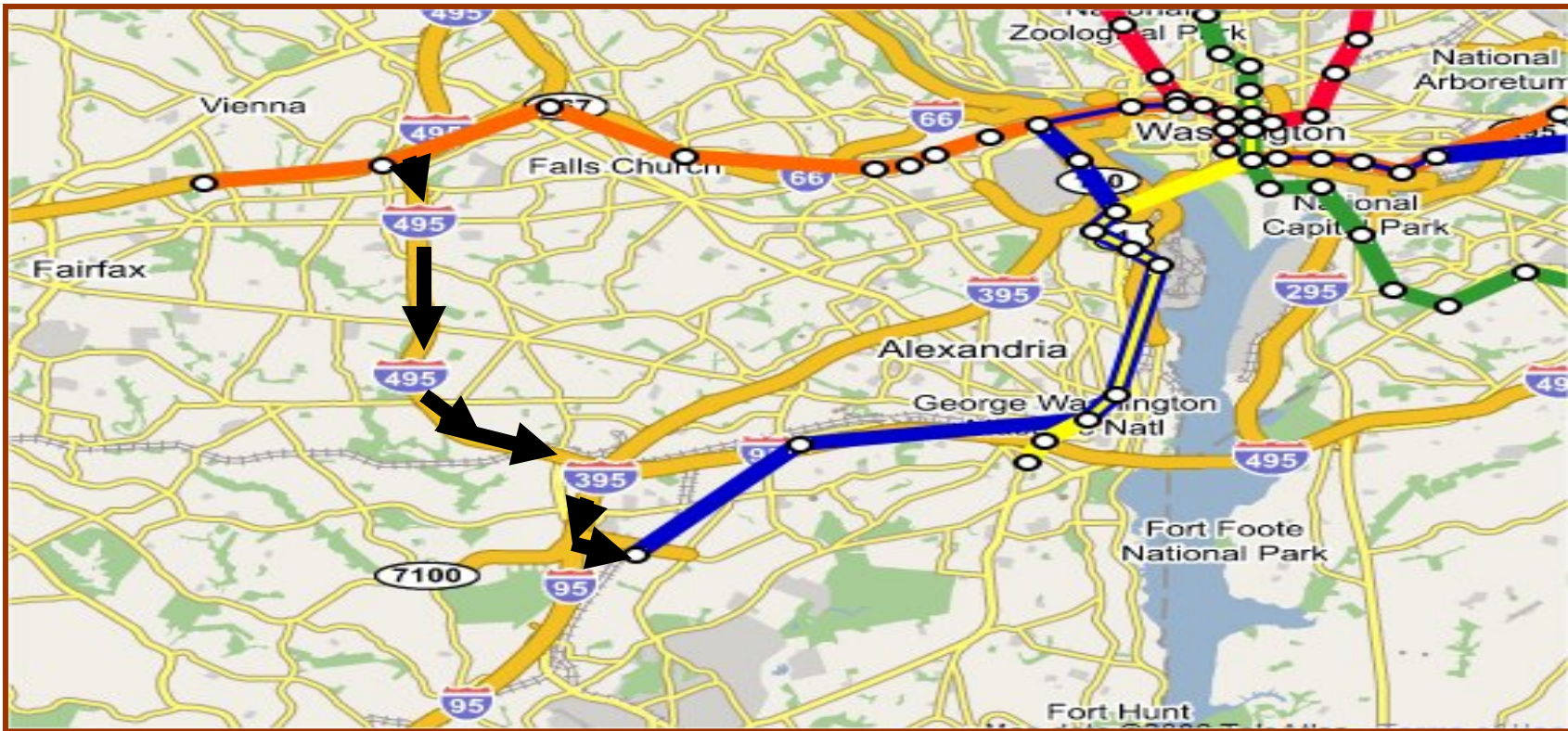
Discussion



Communications Redundancy - Temporary
VDOT will provide temporary redundancy until the HOT Lane is completed between Vienna and Franconia in the event of a catastrophic incident.



Discussion



Communication redundancy - Permanent

VDOT will provide six continuous dark fibers to WMATA for use from the Orange line to Franconia/Springfield Station. The cable will be replaced if the Beltway HOT Lanes are constructed between I-95/I-495/I-395 and Route 193.



Discussion



VDOT will utilize the WMATA tunnel to run fiber optic cables on the Orange line to VDOT's Command Center near the Pentagon Metrorail Station.



Benefits

- Conductivity between Vienna Station and the West Ox Complex.
- Temporary and Permanent communications redundancy for WMATA that connects Vienna Station to Franconia/Springfield Station.
- WMATA will allow VDOT to utilize the WMATA tunnel to run fiber optic cables on the Orange Line to their Command Center near the Pentagon Metrorail Station.



West Ox Complex



Recommendation

- Board approval to execute License Agreement.