

ITEM 13 - Notice Item

April 18, 2007

Notice of Proposed Amendment to the 2006 CLRP and FY 2007-2012 TIP to Include Construction of an Interchange at US 340 and Jefferson Technology Park in Frederick County, as Requested by the Maryland Department of Transportation (MDOT), and Notice of Draft Scope of Work for an Air Quality Conformity Assessment of the Amendment

Staff

Recommendation: Review proposed amendment and draft scope of work for an air quality conformity assessment of the amendment

Issues: None

Background: As indicated in the attached letter of April 10, 2007, MDOT is requesting an amendment to the 2006 CLRP and FY 2007-2012 TIP to include construction of an interchange at US 340 and Jefferson Technology Park in Frederick, as described in the enclosed materials. Because this amendment is not exempt from air quality conformity, a conformity analysis is required and the draft scope of work for an air quality conformity assessment of this amendment is also enclosed.

These materials were released for public comment at the April 12 Citizens Advisory Committee (CAC) meeting. The public comment period for these materials will close on May 12. The Board will be asked to approve the conformity work scope and schedule for this amendment at its May 16 meeting.



Maryland Department of Transportation
The Secretary's Office

Martin O'Malley
Governor

Anthony G. Brown
Lt. Governor

John D. Porcari
Secretary

Beverley K. Swalm-Staley
Deputy Secretary

April 10, 2007

The Honorable Catherine Hudgins, Chairperson
National Capital Region Transportation Planning Board
Metropolitan Washington Council of Governments
777 North Capitol Street, N.E., Suite 300
Washington DC 20002-4290

Dear Chairperson Hudgins:

The Maryland Department of Transportation (MDOT) requests an amendment to the FY 2006 Constrained Long Range Plan (CLRP) and FY 2007-2012 Transportation Improvement Program to include a new interchange on US 340 at Jefferson National Pike to access Jefferson Technology Park. Please refer to the State Highway Administration's April 9, 2007 memo describing the amendment in detail. It is our understanding that this project is not air quality exempt, and a conformity analysis must be undertaken.

The MDOT requests that this amendment be placed on the Transportation Planning Board's (TPB) April 2007 agenda as an informational item, including a conformity work scope for the conformity analysis.

We appreciate your cooperation in this matter. If you have any questions regarding these amendments, please do not hesitate to contact me at 410-865-1279, toll-free at 888-713-1414 or via email at lerickson@mdot.state.md.us.

Sincerely,

Lyn Erickson
Assistant Director, Office of Planning

Attachments

cc: Ms. Kellie Gaver, Assistant Director, Office of Planning, Maryland Department of Transportation
Mr. Michael J. Haley, Division Chief, Regional and Intermodal Planning Division, State Highway Administration
Ms. Del Harvey, Regional Planner, Maryland Transit Administration, Maryland Department of Transportation
Mr. Ronald Kirby, Director of Metropolitan Council of Governments
Mr. Samuel F. Minnitte, Jr., Director, Office of Planning, Maryland Department of Transportation

My telephone number is _____
Toll Free Number 1-888-713-1414, TTY Users Call Via MD Relay
7201 Corporate Center Drive, Hanover, Maryland 21076

Martin O'Malley, *Governor*
Anthony G. Brown, *Lt. Governor*



John D. Porcari, *Secretary*
Neil J. Pedersen, *Administrator*

Maryland Department of Transportation

MEMORANDUM

TO: Lyn Erickson, AICP
Assistant Director, Office of Planning

FROM: Mike Haley, Chief *MDH*
Regional and Intermodal Planning Division

DATE: April 9, 2007

SUBJECT: **Proposed** US 340/US 15 Interchange
Jefferson Technology Park
Frederick County

The Maryland State Highway Administration (SHA) requests that an Amendment to the 2006 Constrained Long Range Plan (CLRP) be initiated. The US 15/US 340 interchange at Jefferson Technology Park (JTP) project has already been submitted as part of the draft FY 2008-2013 TIP in February 2007, but an amendment is needed in order to meet the developer's schedule for this project which has not been previously tested for air quality conformity.

The developer of the Jefferson Technology Park is fully funding the design and construction of the interchange. The developer has also been asked by SHA to conduct a public workshop in Spring 2007 regarding the proposed interchange. In addition to the public workshop, SHA is awaiting noise studies and potential mitigation measures for the proposed northbound ramps of the interchange project.

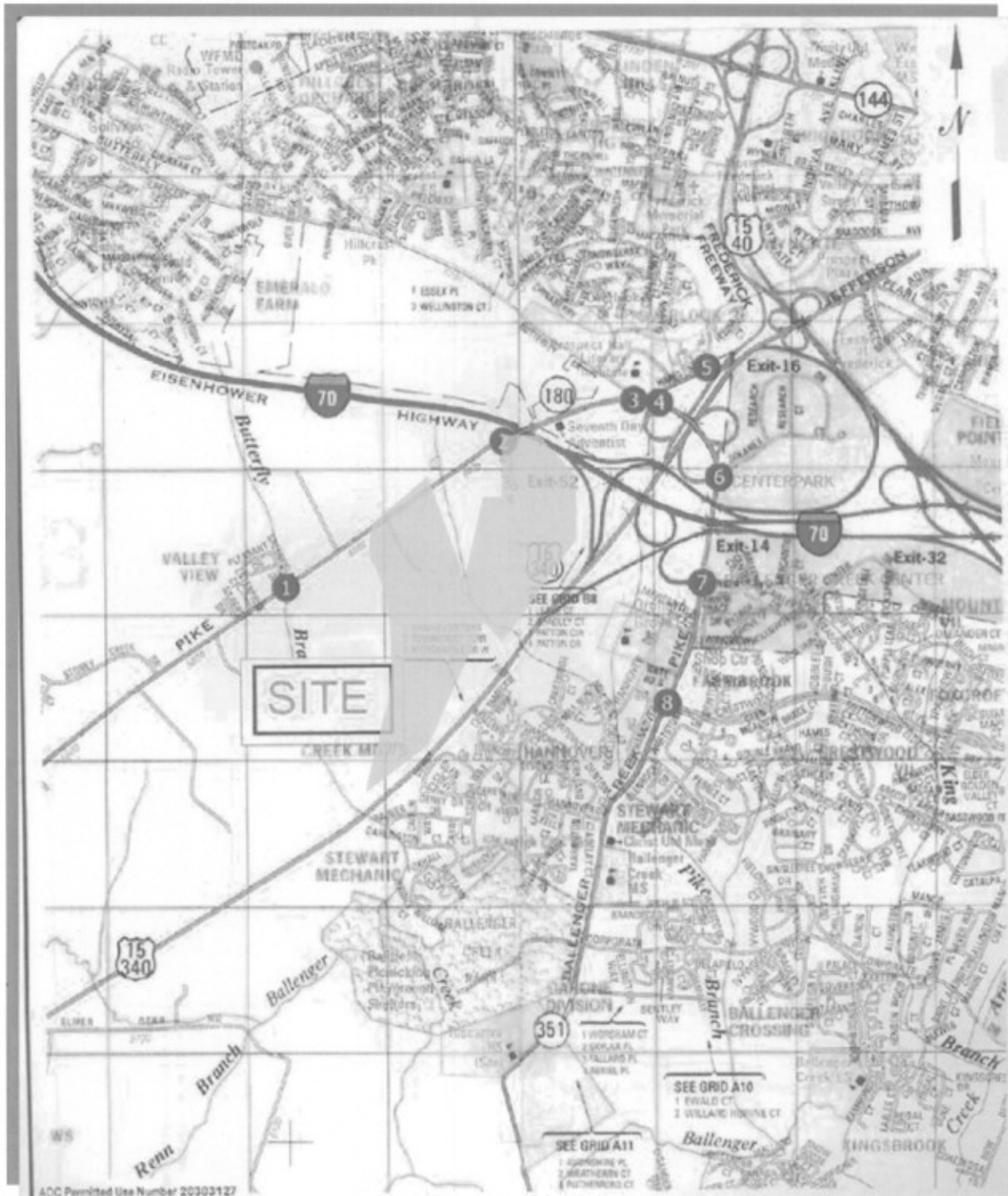
The JTP is located between MD 180 to the west and US 15/US 340 to the east, south of I-70 (*See Location Map – Figure 1*). The project is a large, mixed-use project, which in its initial phases would provide access to both MD 180 and US 15/US 340.

My telephone number/toll-free number is 410-545-5675 or 1-888-204-4828

Maryland Relay Service for Impaired Hearing or Speech: 1.800.735.2258 Statewide Toll Free

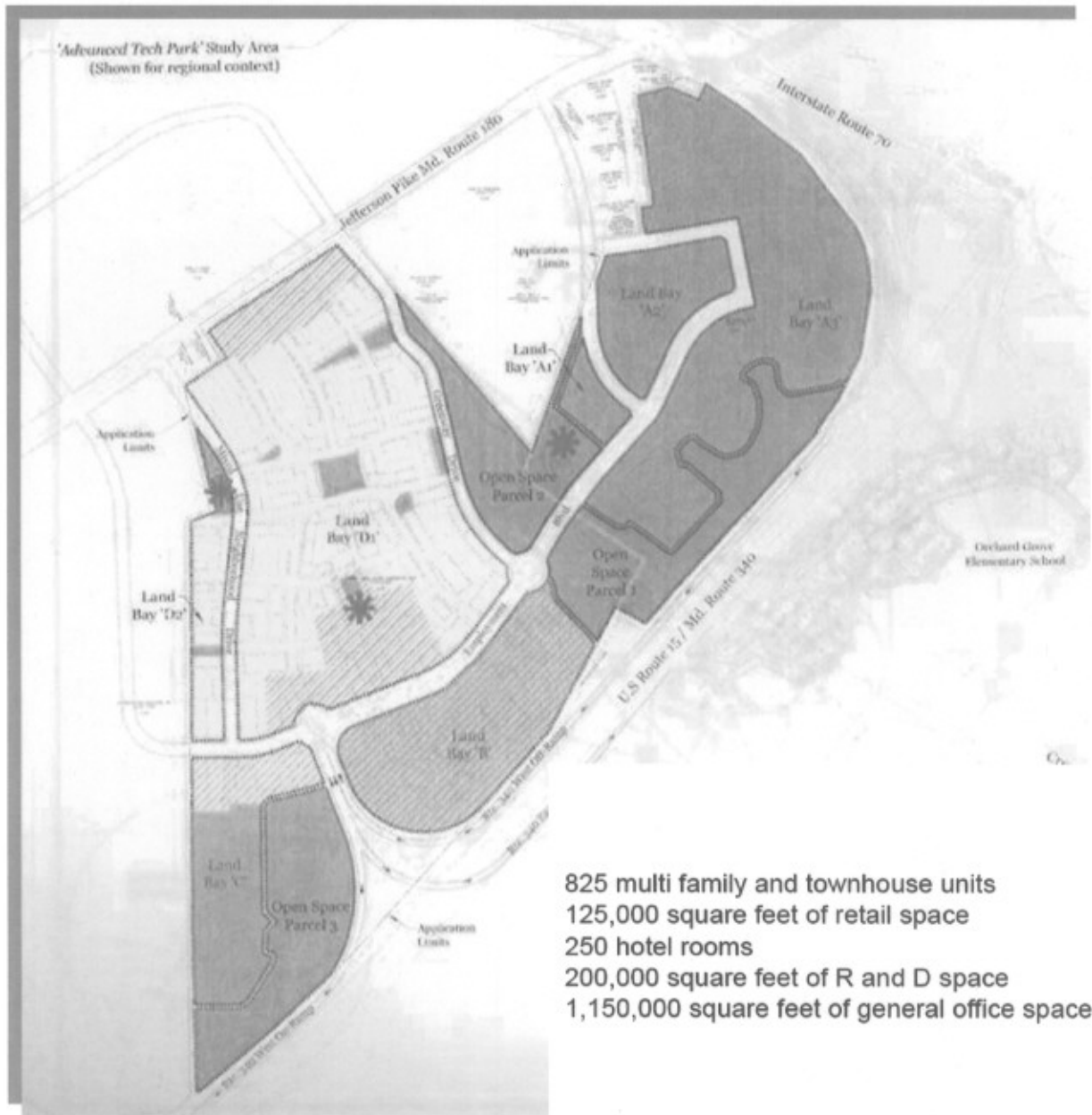
Street Address: 707 North Calvert Street • Baltimore, Maryland 21202 • Phone: 410.545.0300 • www.marylandroads.com





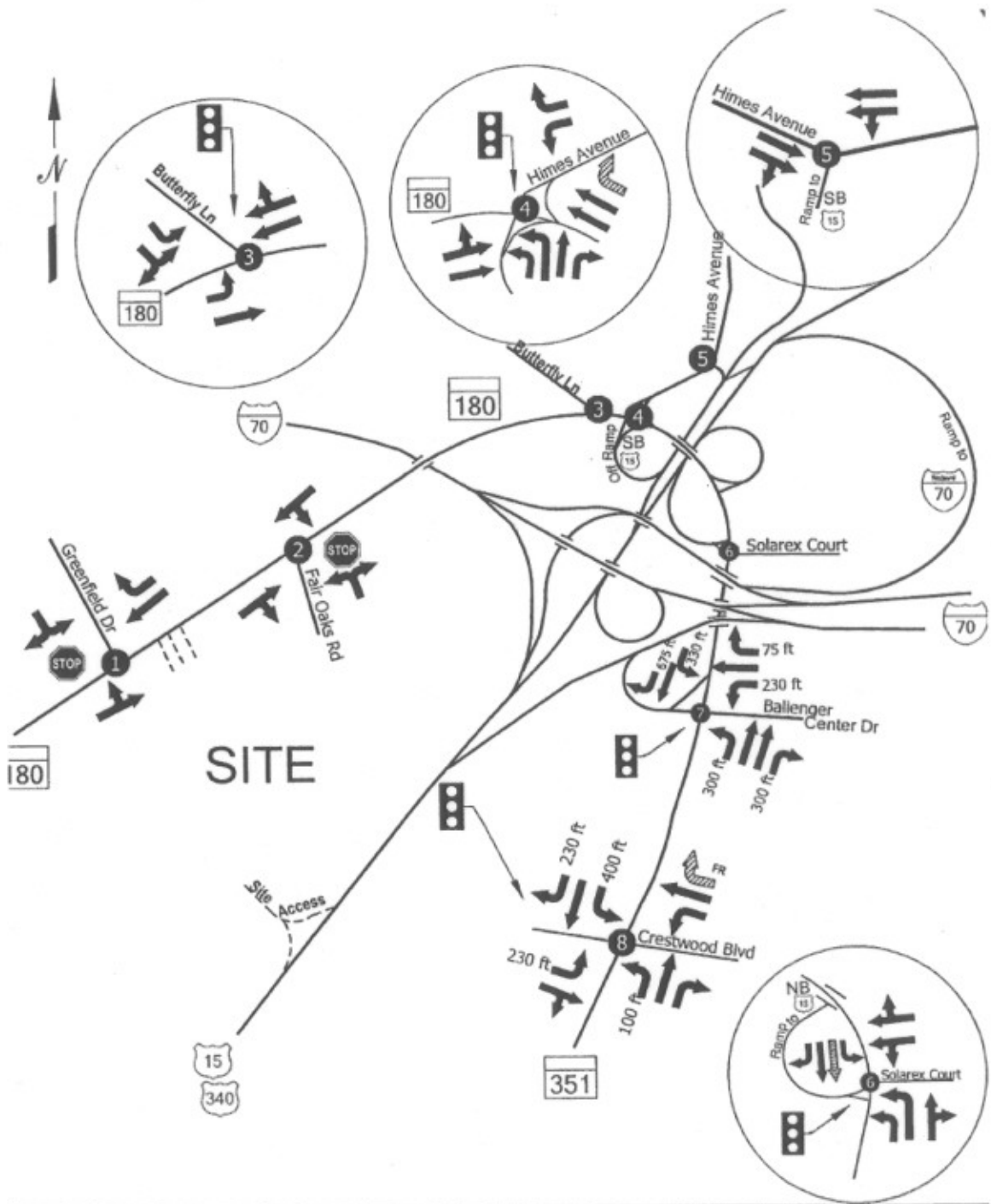
Location Map - Figure 1

The JTP is a proposed mixed-use development in Frederick County, Maryland that will include the following land uses roughly depicted in the land use map below (*See Land Use Map – Figure 2*):



Land Use Map - Figure 2

In January 2007 additional traffic studies were provided to depict Level of Service (LOS) for 2030 conditions. Please note that both the build-out year (Summer 2009) prior to 2030 and the 2030 conformity horizon year is forecast to operate at acceptable levels of service. (See *Recommended Lane Use – Figure 3* and *Total Peak Hour Traffic Volumes – Figure 4*)

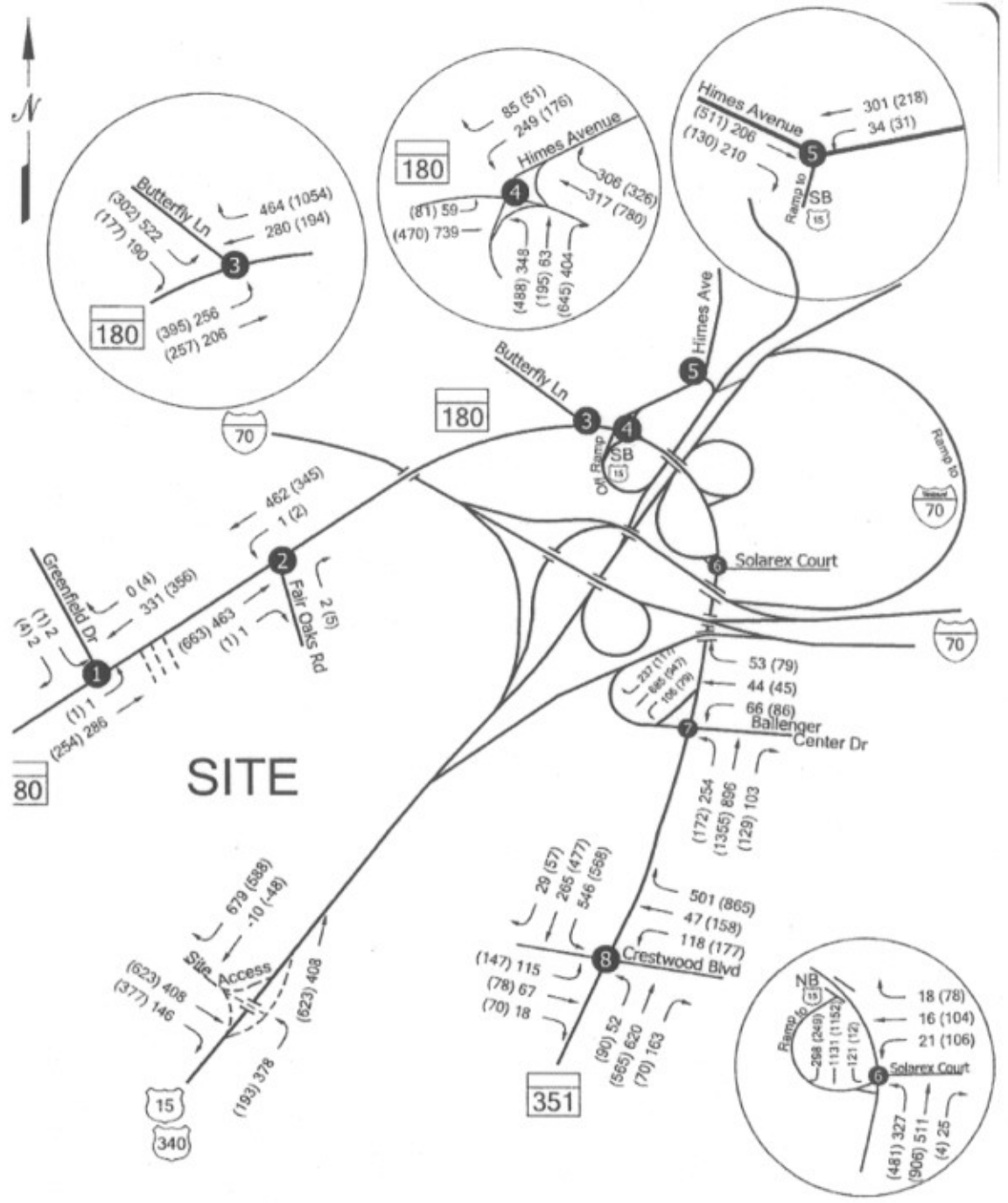


NOT TO SCALE

-  EXISTING LANE USE
-  RECOMMENDED LANE USE

EXHIBIT 12
 RECOMMENDED
 FUTURE LANE USE - PHASE 1

Recommended Lane Use – Figure 3



NOT TO SCALE

00 - MORNING PEAK HOUR
 (00) - EVENING PEAK HOUR

EXHIBIT 18
TOTAL PEAK HOUR
TRAFFIC VOLUMES - PHASE 2

Total Peak Hour Traffic Volumes - Figure 4

The proposed improvements and project traffic volumes are summarized as follows:

MD 180 at Himes Avenue / Off-ramp from Southbound US 15/340

1. Construct westbound right turn lane along MD 180 at Himes Avenue.

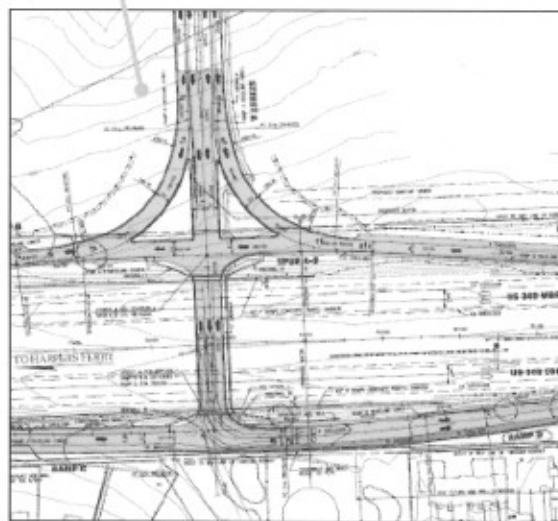
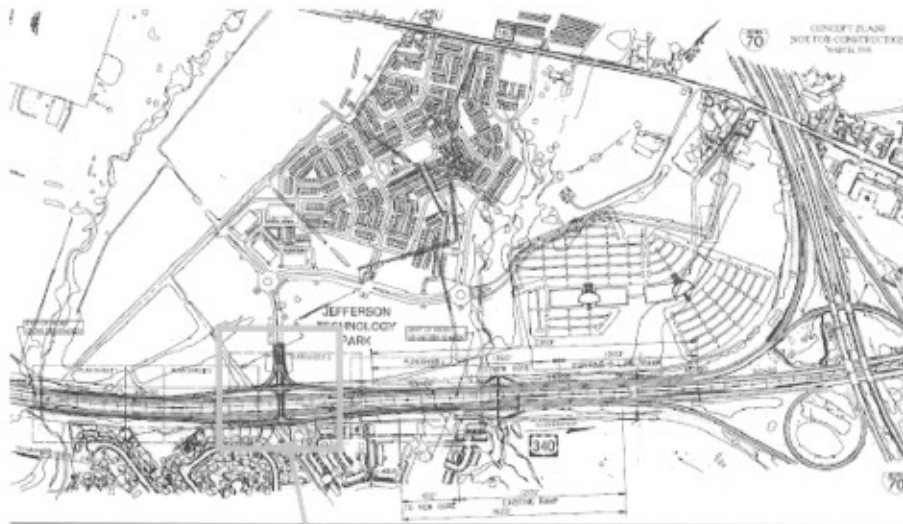
MD 351 and Solarex Court

2. Construct a second southbound thru lane along MD 351 at Solarex Court.

MD 351 at Crestwood Boulevard

3. Construct an acceleration lane along northbound MD 351 for the westbound right turn lane along Crestwood Boulevard.

At this time the proposed site access is as shown and the details of the proposed interchange are illustrated in the diagram below (*See Proposed Interchange Diagram – Figure 5*). A potential future sidewalk over the bridge is still under consideration.



Proposed Interchange Diagram – Figure 5

The estimated costs to date for the project are as follows:

- \$900,000 for Preliminary Engineering
- \$10,000,000 for Construction

The proposed schedule developed to date is as follows:

- Public Workshop – April 24, 2007
- Beginning of Construction - November 1, 2007

If you have any questions or comments please do not hesitate to call or contact Ms. Stephanie Yanovitz, Acting Regional Planner, SHA Regional & Intermodal Planning Division (RIPD) at 410-545-5668 or syanovitz@sha.state.md.us for further assistance. We greatly appreciate your coordination activities in the 2006 CLRP.

CC: Mr. Dennis Yoder, SHA Assistant Division Chief, RIPD

**AIR QUALITY CONFORMITY ASSESSMENT
AMENDMENTS TO THE 2006 CONSTRAINED LONG RANGE PLAN
AND THE FY2007-2012 TRANSPORTATION IMPROVEMENT
PROGRAM**

SCOPE OF WORK

I. INTRODUCTION

The Maryland Department of Transportation (MDOT) requests an amendment to the current 2006 Constrained Long Range Plan (CLRP) and FY2007-2012 Transportation Improvement Program (TIP) to include construction of an interchange on US 340 at the proposed Jefferson Technology Park property in Frederick, Maryland. This amendment affects the air quality conformity analysis for the forecast year 2009 and beyond, and will therefore require a new demonstration of air quality conformity before it can be adopted as a plan and program element by the Transportation Planning Board (TPB).

The amended plan and program must meet air quality conformity requirements, as published in the November 24, 1993 Federal Register and as subsequently amended through regulation, most recently on March 10, 2006. These requirements specify both technical criteria and consultation procedures to follow in performing the assessment. The analysis will include the use of 8-hour ozone “interim” (1-hour) budgets for volatile organic compounds (VOC) and nitrogen oxides (NO_x) and approved wintertime carbon monoxide (CO) mobile source emissions budgets. For fine particulate matter (PM_{2.5}) precursors, where budgets are not yet set, reductions from the base 2002 inventory will be calculated.

This scope of work provides a context in which to perform the conformity analyses and presents an outline of the work tasks required to address all regulations currently applicable.

II. APPROACH

The analytical approach is the same as that applied and documented in the air quality conformity assessment of the 2006 CLRP and FY2007-2012 TIP, approved by the TPB on October 18, 2006, which is outlined in the summary table below.

TABLE 1 – Summary of Technical Approach

	Ozone	Wintertime CO	PM2.5
Pollutant:	VOC, NO _x	CO	Direct particles, Precursor NO _x
Budget:	8-hour ozone 'interim' mobile source emissions budgets, i.e., 1-hour budgets	Approved wintertime CO emissions budget	Budget not yet set - Use Reductions from base 2002 inventory
Emissions Analysis Time-frame:	Daily	Daily	Annual
Geography:	MSA	DC, Arl., Alex., Mont., Pr. Geo.	MSA less Stafford and Calvert counties
Network Inputs:	Regionally significant projects		
Land Activity:	Round 7a		
Modeled Area:	Expanded Cordon (2191 zone)		
Model Set:	Version 2.1 D #50		
Mobile Model:	MOBILE6.2 emissions factors, consistent with the procedures utilized to establish the VOC and NO _x mobile source emissions budgets	MOBILE6.2 Consistent with procedures used to establish the budget	MOBILE6.2 'Seasonal' approach

III. CONSULTATION

A 30 day public comment / interagency consultation period followed by response to comments will be provided for the following milestones:

- Project review
- Air quality conformity scope of work
- Conformity report

IV. WORK TASKS

1. Prepare forecast year highway networks
 - 2010, 2020, 2030
2. Prepare 2010 travel and emissions estimates
 - Execute travel demand modeling process
 - Calculate emissions (daily for ozone season VOC and NO_x; daily for winter CO; yearly for PM_{2.5} direct particles and precursor NO_x)
3. Prepare 2020 travel and emissions estimates
 - Execute tasks as in 2010 analysis
 - Apply “transit constraint” using 2010 levels
4. Prepare 2030 travel and emissions estimates
 - Execute tasks as in 2020 analysis
5. Analyze results of above technical analysis
 - Identify PM_{2.5} emissions reductions from 2002 base
 - Compare ozone season VOC and NO_x and winter CO emissions with established budgets
6. Assess conformity and document results in a report
 - Document methods
 - Draft conformity report
 - Forward to technical committees, policy committees
 - Make available for public comment and interagency consultation
 - Receive comments
 - Address comments and present to TPB for action
 - Finalize report and forward to FHWA and FTA

**AIR QUALITY CONFORMITY ASSESSMENT
AMENDMENTS TO THE 2006 CONSTRAINED LONG RANGE
PLAN AND THE FY2007-2012 TRANSPORTATION
IMPROVEMENT PROGRAM**

SCHEDULE

April 12, 2007	2006 CLRP and FY2007-2012 TIP amendment and conformity analysis scope of work released for public comment
*April 18, 2007	TPB briefed on proposed 2006 CLRP and FY2007-2012 TIP amendment and conformity analysis scope of work
May 12, 2007	Public comment period ends
*May 16, 2007	TPB approves proposed 2006 CLRP and FY2007-2012 TIP amendment and conformity analysis scope of work
June 14, 2007	Draft conformity results released for public comment
*June 20, 2007	TPB briefed on draft conformity results
July 14, 2007	Public comment period ends
*July 18, 2007	TPB reviews public comments and responses to comments, and adopts 2006 CLRP and FY2007-2012 TIP amendment and conformity analysis
* TPB meeting	