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**MEMORANDUM**

**To:** Mayor and City Council

**From:** Michael Smith, Director of Public Works

**Date:** 1/14/2013

**Subject:** **Discussion of Intersection Improvement Projects**

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**ITEM DESCRIPTION**

Update on transportation plan implementation and discussion of future projects

**BACKGROUND**

In 2011, the City adopted a Comprehensive Transportation Plan to provide transportation alternatives and improve mobility. The plan recommended a number of projects and established priorities by grouping projects into three tiers with Tier 1a being the highest priority. A list of the Tier 1a projects excerpted from the transportation plan is included with this memorandum. The project ID number is for reference purposes only and is not a ranking of the projects by priority.

Of the 13 projects in Tier 1a, the City has initiated work on 4 (Nos. 1, 8, 10 and 12). Project number 6 (left turn restriction at Nandina Lane) is currently being evaluated for incorporation into the paving of Mount Vernon later this year.

The City budget currently includes funding for conceptual design of an improvement at the Mount Vernon and Vermack intersection. There is also \$150,000 in the 2013 budget for intersection improvement design. I recommend considering Chamblee Dunwoody from Vermack to Peeler (Project No. 9) and Chamblee Dunwoody at Spalding (Project No. 11) for this funding. Chamblee Dunwoody at Peeler experiences a large volume of traffic and operates at a failing level of service (See attached Table 6). Chamblee Dunwoody at Spalding is a project to improve the safety of the intersection. There is a relatively high rate of occurrence of accidents where the southbound drivers turning left from Spalding to Chamblee Dunwoody have been hit by northbound drivers on Spalding. These accidents tend to be more severe in nature and would be somewhat less likely to occur with addition of turn lanes or changes to the geometry of the intersection.

**ALTERNATIVES**

I suggest three options for allocation of the \$150,000:

<b>Option</b>	<b>Estimated Cost</b>
Complete conceptual plans on both intersections recommended above with remaining funding to be allocated at a later date	\$80,000
Complete concept and final design for one of recommended intersections	\$150,000
Complete concept work on one of the intersections and allocate the remaining funding to final design for Mount Vernon at Vermack	\$150,000

**RECOMMENDATION**

There are benefits to each of the three alternatives and it is ultimately a policy decision for Council as to how to prioritize the spending. My recommendation is to allocate the \$150,000 for concept and final design of safety improvements at the Chamblee Dunwoody at Spalding intersection in addition to the concept work already budgeted for Mount Vernon at Vermack.

**City of Dunwoody**  
Comprehensive  
Transportation Plan

**Table 10: City of Dunwoody Prioritized Project List**

Priority Tier	Project ID	Type	Project Description	Implementation Strategy Approach	Total Project Cost	Completion Date
1a	1	ATMS/ITS Corridors	Automated Traffic Management Systems and Intelligent Transportation Systems implementation in the Perimeter CID as well as Dunwoody Village and Chamblee Dunwoody Road, North Shallowford Road, and North Peachtree Road corridors: Signal timing, controller upgrades, and signal interconnection	City of Dunwoody, Perimeter CID, ARC, LCI, T-SPLOST*, Georgia DOT	\$1,000,000	2011 - 2015
1a	2	Bicycle/ Pedestrian	Includes signed bike route and/or sharrows: North Peachtree Road, Tilly Mill Road, Peachford Road, Old Spring House Lane, Dunwoody Park, Perimeter Center East, Valley View Road, Meadow Lane Road, Vermack Road, Peeler Road, Happy Hollow Road, Womack Road, Olde Perimeter Way (private), Ridgeview Road.	City of Dunwoody, ARC, PCID	\$200,000	2011 - 2015
1a	3	Bicycle/ Pedestrian	Mount Vernon Road at North Peachtree Road: Add crosswalk and refuge island	GDOT Safe Routes To School Grant	\$100,000	2011 - 2015
1a	4	Intersection	Mount Vernon Road at Vermack Road: Add left turn lane from Mount Vernon Road to Vermack Road	City of Dunwoody	\$500,000	2011 - 2015
1a	5	Intersection	Womack Road at East Driveway of Georgia Perimeter College Dunwoody Campus: In conjunction with the college, reconfigure on-campus traffic flow to relieve congestion as well as provide alternative access and prohibit left turns from Womack Road into the college.	Georgia Perimeter College	\$150,000	2011 - 2015
1a	6	Intersection	Mount Vernon Road & Chamblee Dunwoody Road at Nandina Lane: Convert access to Nandina Lane to right in/right out. Nandina Lane remains two way. See also Dunwoody Village Master Plan, Five Year Implementation Plan, Project #3	City of Dunwoody, LCI	\$150,000	2011 - 2015

Table 10: City of Dunwoody Prioritized Project List

Priority Tier	Project ID	Type	Project Description	Implementation Strategy Approach	Total Project Cost	Completion Date
1a	7a	Intersection	Mount Vernon Road at Tilly Mill Road: Change existing left/through to left only and existing right only to shared through/right	City of Dunwoody, T-SPLOST*	\$200,000	2011 - 2015
1a	7b	Intersection	Mount Vernon Road at Mount Vernon Place: Prohibit left turn movements from Mount Vernon Place to Mount Vernon Road westbound. In conjunction with improvement at Mount Vernon Road and Tilly Mill Road.	City of Dunwoody	\$500	2011 - 2015
1a	7c	Intersection	Tilly Mill Road at Mount Vernon Place: Realign Mount Vernon Place to form a T intersection with Tilly Mill Road	City of Dunwoody	\$150,000	2011 - 2015
1a	8	Intersection	Womack Road at Vermack Road: Signalize or install a roundabout	City of Dunwoody	\$1,000,000	2011 - 2015
1a	9	Intersection	Intersection improvements on Chamblee Dunwoody Road from Vermack Road to North Shallowford Road	City of Dunwoody, T-SPLOST*	\$1,575,000	2011 - 2015
1a	10	Intersection	Tilly Mill Road at North Peachtree Road: Intersection improvement project. Complete concept report prior to improving the intersection.	City of Dunwoody	\$3,000,000	2011 - 2015
1a	11	Intersection	Chamblee Dunwoody Road at Spalding Drive: Reconfigure intersection to increase safety (see three concepts under consideration)	City of Dunwoody, ARC, T-SPLOST*	\$750,000	2011 - 2015
1a	12	Reconfigure Existing Roadway	Dunwoody Village Parkway multi-modal improvements - As shown in the Dunwoody Village Master Plan, Five Year Implementation Plan, Project #1	City of Dunwoody, LCI, Georgia DOT Transportation Enhancement	\$2,400,000	2011 - 2015
1a	13	Study	Dunwoody Village Traffic Study	City of Dunwoody, ARC	\$150,000	2011 - 2015

## City of Dunwoody

Comprehensive  
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Table 6: City of Dunwoody Intersection LOS

Intersection	Existing (2010)		No-Build (2015)		Build (2015)	
	AM	PM	AM	PM	AM	PM
Chamblee Dunwoody Road at Roberts Drive	C	B	C	B	C	B
Chamblee Dunwoody Road at Dunwoody Village Parkway	A	C	A	C	A	C
Chamblee Dunwoody Road at Ashford Center Parkway/Womack Road	C	C	C	D	C	D
Ashford Dunwoody Road at Ashford Center Parkway	B	A	B	A	B	A
Mount Vernon Road at Ashford Dunwoody Road/Trailridge Way	F	F	F	F	C	C
Mount Vernon Road at Nandina Road	D	C	E	C	B	B
Mount Vernon Road at Chamblee Dunwoody Road	E	E	E	F	E	E
Mount Vernon Road at Tilly Mill Road/Wellesley Lane	C	B	C	C	C	C
Mount Vernon Road at N Peachtree Road	D	E	D	E	D	E
Womack Road at Vermack Road	E	E	F	F	B	B
Vermack Road at Olde Village Run/Parliament Road	B	C	B	C	B	C
Tilly Mill Road at Womack Road	C	C	C	C	C	C
Tilly Mill Road at N Peachtree Road	E	D	E	D	C	C
Tilly Mill Road at Peeler Road	C	C	C	C	C	C
Peeler Road at Old Village Lane	C	B	C	B	C	B
N Shallowford Road at Chamblee Dunwoody Road/Peeler Road	F	F	F	F	D	D