TO:	Jan	nes L. App, City Mana	ger			
FROM:	Doug Monn, Interim Public Works Director					
SUBJECT:	Niblick Road Corridor Signal Synchronization					
DATE:	Jul	uly 5, 2005				
NEEDS:		r the City council to consider the findings of TPG, a consultant hired to explore the achronization of traffic signals along Niblick Road from First Street to Creston Road.				
FACTS:	1.	The Niblick Road Corridor from First Street to Creston Road is now a four-lane roadway (two lanes each way) as of August 2004.				
	2.	In addition to the addit	ional traffic lanes, two i	new signals were ins	talled.	
	3.	These new improvement	nts have changed the tra	affic flow within this	s corridor.	
	4.	In December 2004, the City Council directed staff to engage the services of TPG Consulting, traffic engineers, to develop a plan to synchronize the signals along Niblick Road.				
5. Their work is complete			and they are ready to p	resent the results to	City Council.	
Analysis And						
CONCLUSION:		TPG Consulting gathered field information with regards to the volume of traffic along this corridor, including turning movement counts at each intersection and a speed survey of vehicles traveling along this corridor. At the Council meeting, TPG Consulting will explain how the following conclusions were developed. Staff, along with the consultants presented these results of TPG's analysis to the School District.				
		<u>Morning Peak Hours</u>				
			Total Travel Time (sec)	Avg Speed (mph)	Total Delay (sec)	
		No Synchronization	427	9	73	
		Coordinated (40 mph)	187	20	20	
		Coordinated (25 mph)	239	15	21	

<u>Afternoon</u>	Peak	Hours

	Total Travel Time (sec)	Avg Speed (mph)	Total Delay (sec)
No Synchronization	635	7	96
Coordinated (40 mph)	273	17	29
Coordinated (25 mph)	336	13	30

As the above table indicates, there would seem to be value in coordinating the traffic signals in that travel time would be greatly reduced (i.e. from 635 seconds to

seconds, and 336 seconds during the afternoon peak hours). The consultant recommends that the City Council consider implementing the coordination of the signals at 40 mph.

Policy Reference:	Adopted Capital Improvement Program	
FISCAL IMPACT:	The City Council has adopted a budget of \$49,000 to implement signal synchronization.	
OPTIONS:	a. Determine that there is value in coordinating the signals along the Niblick Road corridor, and accept the consultant's recommendation to implement the work based on a 40 mph scenario.b. Amend, modify, or reject the above option.	