Attachment #6
Traffic Analysis

Project Concept Report Attachment #4
Project Number: STP-9252(6) & STP-9150(1)
P. I. Number: 751300 & 751310
County: Fulton & Cobb

Attachment #6

The traffic analysis was done by Jordan, Jones and Goulding under a task order contract in 2002-2003. Synchro was used in the analysis.

Johnson Ferry Road - Abernathy Road Traffic Analysis - Intersection Level of Service - Existing Configuration

	2006 NO BUILD				2026 NO BUILD / TSM			
	AM		PM		AM		PM	
Intersection	Level of Service	Intersection Delay	Level of Service	Intersection Delay	Level of Service	Intersection Delay	Level of Service	Intersection Delay
Signalized - existing alignment								
Johnson Ferry @ Columns	D	54	C	34	F	90	E	65
Johnson Ferry @ Riverside	F	116	F	151	F	97	F	159
Johnson Ferry @ Abernathy	C	30	E	67	E	62	F	141
Johnson Ferry @ Brandon Mill	A	10	A	6	E	77	A	6
Abernathy @ Roswell	D	42	F	84	F	123	F	139

Johnson Ferry Road - Abernathy Road Traffic Analysis - Intersection Level of Service - Proposed Configuration

2026 - 4 lanes on Johnson Ferry Road (6 lanes from Columns to Riverside - 4 lanes on Abernathy Road (11' lanes, no right turn lanes)

	2026 Proposed Configuration			
	AM		PM	
Intersection	Level of Service	Intersection Delay	Level of Service	Intersection Delay
Signalized - proposed alignment				
Johnson Ferry @ Columns	C	30	C	23
Johnson Ferry @ Riverside	D	46	F	107
Johnson Ferry @ River Valley Rd.	F	81	C	30
Abernathy @ South Johnson Ferry	C	25	E	66
Abernathy @ Roswell	F	117	F	104

Johnson Ferry Road / Abernathy Road Corridor Daily Traffic Volumes

	2002	2006	2026
Johnson Ferry Road Bridge	43,000	47,000	60,000
Riverside Drive West of Johnson Ferry Road	8,800	9,000	11,000
Johnson Ferry Road South of Riverside Drive	30,000	32,000	41,700
River Valley Road	5,000	6,000	9,000
Johnson Ferry Road South of Abernathy	18,000	19,000	20,000
Abernathy Road	22,500	25,000	34,600

Johnson Ferry Road / Abernathy Road Corridor Directional Delay

AM Peak Direction Delay

	2026		2026	
	No Build/Transportation Systems Management (TSM)		4 lanes on Johnson Ferry Road (6 lanes from Columns Drive to Riverside Drive), 4 lanes on Abernathy Road, 11' lanes, no right turn lanes	
Approach	LOS	Delay	LOS	Delay
SB Johnson Ferry Road @ Columns Drive **(sec)**	F	131	C	34
SB Johnson Ferry Road @ Riverside Drive **(sec)**	F	134	D	49
SB Johnson Ferry Road @ River Valley Road **(sec)**	E	71	E	80
EB Abernathy Road @ Brandon Mill Road **(sec)**	F	106	C	23
Total Delay (SB Johnson Ferry Road @ Columns Drive to Brandon Mill Road) **(sec)**		442		186
Total Delay (SB Johnson Ferry Road @ Columns Drive to Brandon Mill Road) **(min)**		**7.4**		**3.1**

PM Peak Direction Delay

Approach	2026 No Build/Transportation Systems Management (TSM)		2026 4 lanes on Johnson Ferry Road (6 lanes from Columns Drive to Riverside Drive), 4 lanes on Abernathy Road, 11' lanes, no right turn lanes	
	LOS	Delay	LOS	Delay
WB Abernathy Road @ Brandon Mill Road **(sec)**	A	3	D	51
NB Johnson Ferry Road @ Brandon Mill Road **(sec)**			F	133
WB Abernathy Road @ River Valley Road **(sec)**	F	176		
NB Johnson Ferry Road @ River Valley Road **(sec)**	F	157	C	34
NB Johnson Ferry Road @ Riverside Drive **(sec)**	F	209	F	167
NB Johnson Ferry Road @ Columns Drive **(sec)**	F	107	C	26
Total Delay (WB Abernathy Road @ Brandon Mill Road to Columns Drive) **(sec)**		476		278
Total Delay (WB Abernathy Road @ Brandon Mill Road to Columns Drive) **(min)**		**7.9**		**4.6**
Total Delay (NB Johnson Ferry Road @ Brandon Mill Road to Columns Drive) **(sec)**		649		360
Total Delay (NB Johnson Ferry Road @ Brandon Mill Road to Columns Drive) **(min)**		**10.8**		**6.0**