

with the left turning vehicles. The right turning traffic utilizes the advancing volume and right turning traffic. The auxiliary lane warrants were evaluated using the 2014 total traffic volumes at the site driveway. The evaluation is attached as Figure 4. Based on anticipated traffic volumes, auxiliary turn lanes are not warranted into the entrance to the proposed Cypress Landing Subdivision on Ferry Point Road.

Intersection Sight Distance

Intersection sight distance is a design factor outlined in the AASHTO Geometric Design of Highway and Streets (Green Book), 2004. Per the Green Book, the driver of a stopped vehicle should have an unobstructed view of the intersecting roadway to decide when to turn left or right onto the roadway. The sight distance is measured from a driver's eye height of 3.5 feet to a height of object 3.5 feet. For a stopped passenger car to turn right or left onto Ferry Point Road with a design speed of 35 mph, the intersection sight distance is calculated to be 390 feet. For a single unit truck, the intersection sight distance is 490 feet. In addition, proper intersection sight distance is required for vehicles to turn left from Ferry Point Road across opposing traffic to enter the proposed Cypress Landing Subdivision. The sight distance required is based on a left turn by an southbound vehicle stopped on Ferry Point Road. For a passenger car, the intersection sight distance is calculated to be 285 feet. The intersection sight distance for a single unit truck is 335 feet.

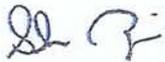
Based on field measurements and observations, the proposed location of the subdivision entrance has an excess of 490 feet of sight distance for traffic entering and exiting the site.

Conclusions

Development of the project site with 30 single family homes is not anticipated to create capacity related deficiencies at the site driveway. Sufficient capacity exists on the roadway to accommodate the development of this site, based on the trip generation and analysis conducted in this report. No off-site roadway improvements are recommended. In the future, however, the City should consider upgrading the typical section of Ferry Point Road to meet minimum lane widths standards of 11 feet for urban collectors or remove the roadway from the functionally classification system

If you have any questions, please call me at (228) 374-1211.

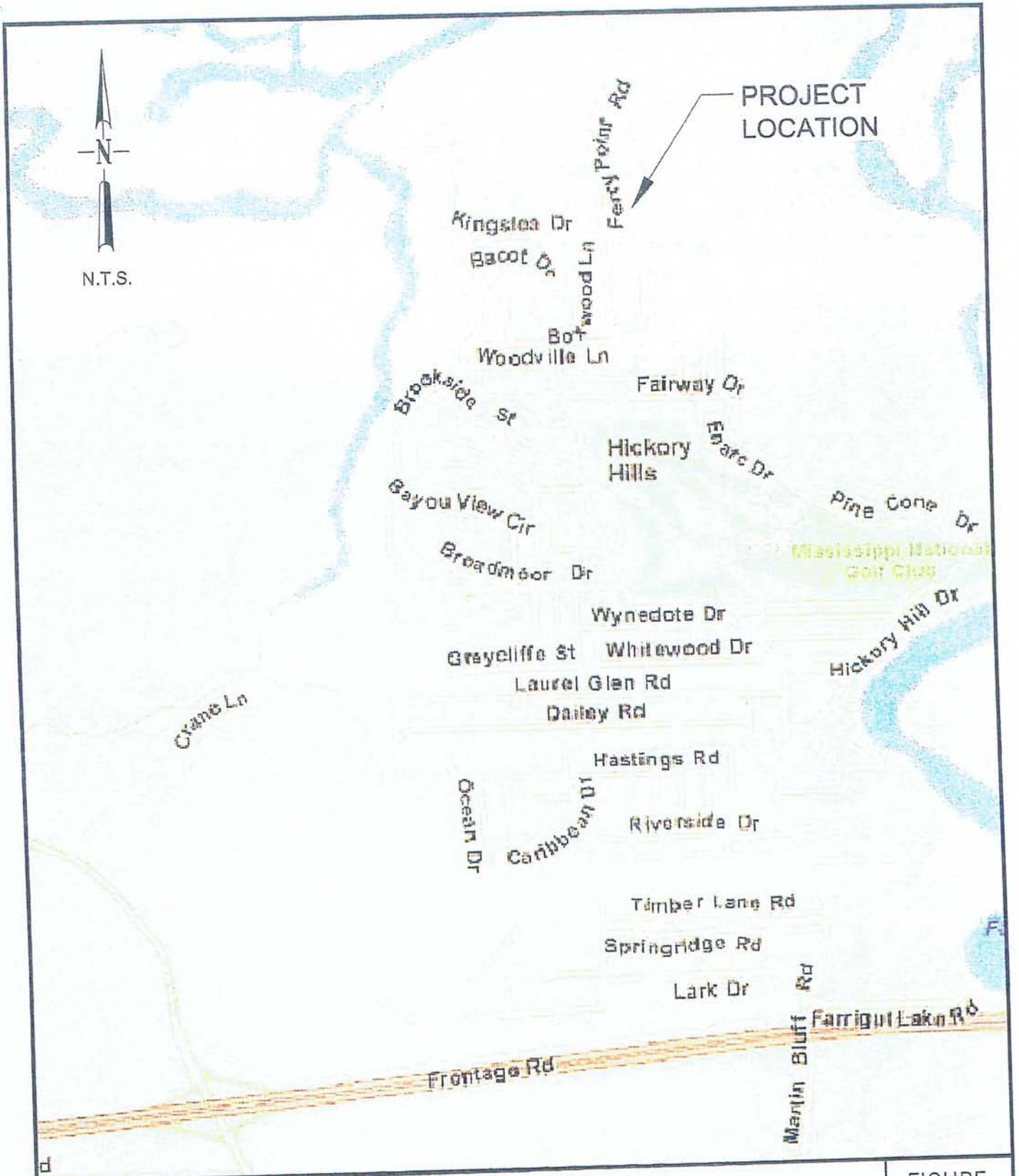
Sincerely,
NEEL-SCHAFFER, INC.

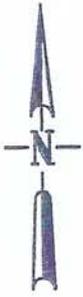


Shane Bergin, P.E., PTOE
Traffic Engineer

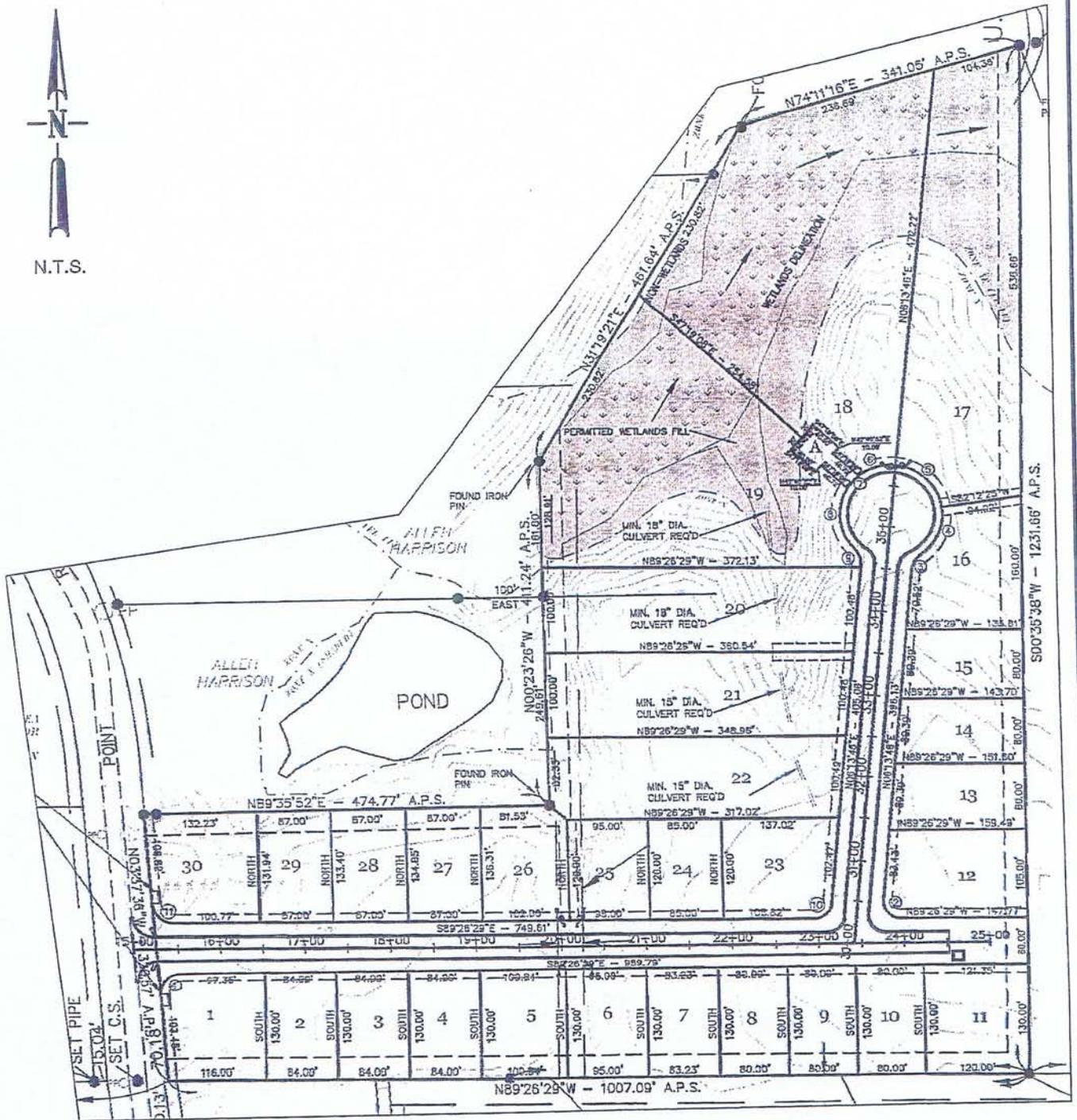
Attachments:

Figure 1 – Vicinity Map
Figure 2 – Project Site Plan
Figure 3 – Traffic Volumes
Figure 4 – Auxiliary Lane Warrants
Traffic Volume Calculations
Level of Service Analysis

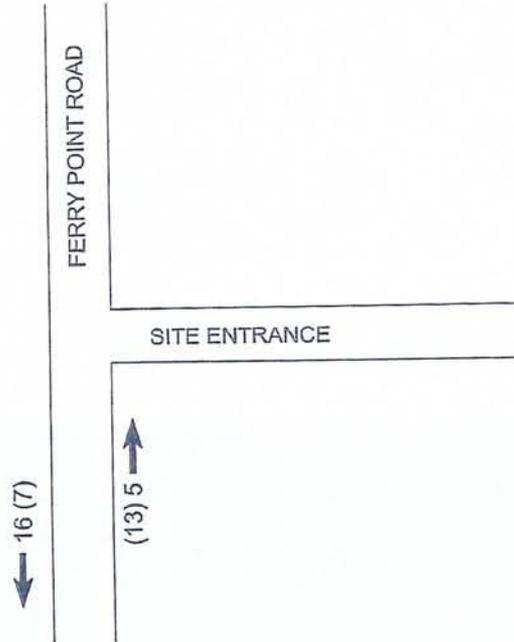




N.T.S.

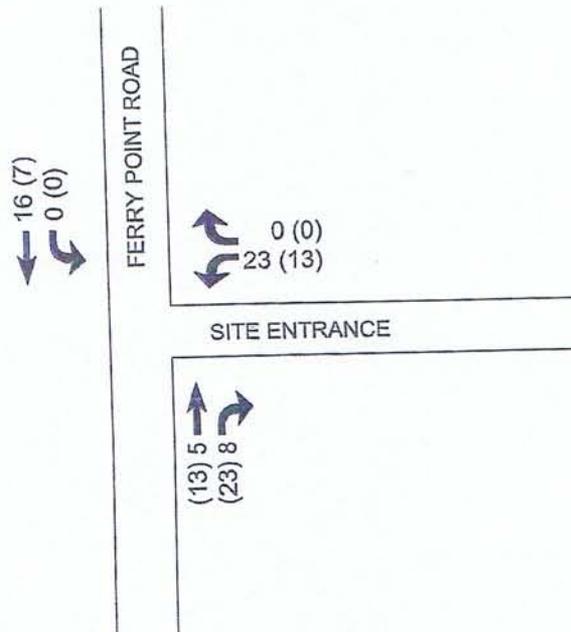


2011 Existing Traffic



KEY
 XX AM PEAK
 (XX) PM PEAK

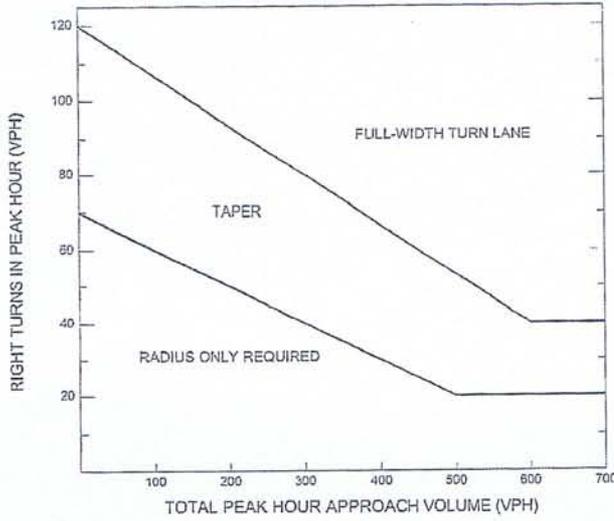
2014 Total Traffic



SITE TRAFFIC ASSIGNMENT

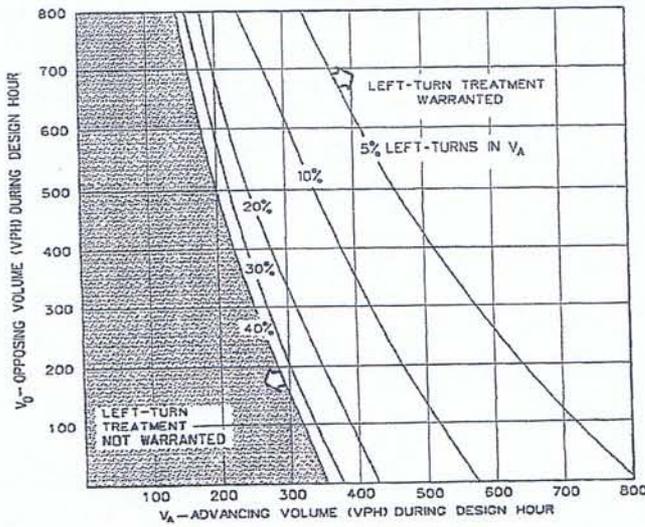
	IN	OUT	TOTAL
AM	8	23	31
PM	23	13	36

WARRANT FOR RIGHT TURN STORAGE LANE



	Right Turns	Total Approach	Right Turn Lane Warranted?
AM Peak	8	13	No
PM Peak	23	36	No

WARRANT FOR LEFT TURN STORAGE LANE



	V_A	V_0	% Lefts	Left Turn Lane Warranted?
AM Peak	16	13	0%	No
PM Peak	7	36	0%	No

Figure 4
Auxiliary Lane Warrants

Ferry Point Road / Subdivision Entrance

Seasonal Adjustment Factor 1
 Annual Growth Factor 0.0%
 Base Year 2011
 Horizon Year 2014

Start Time	Northbound		Southbound		Westbound		Total
	Thru	Right	Left	Thru	Left	Right	
AM Peak Hour							
2011 Existing Traffic	5	0	0	16	0	0	21
2014 Non-Site Traffic	5	0	0	16	0	0	21
Site Traffic	0	8	0	0	23	0	31
2014 Total Traffic	5	8	0	16	23	0	52
PM Peak Hour							
2011 Existing Traffic	13	0	0	7	0	0	20
2014 Non-Site Traffic	13	0	0	7	0	0	20
Site Traffic	0	23	0	0	13	0	36
2014 Total Traffic	13	23	0	7	13	0	56

TWO-WAY STOP CONTROL SUMMARY

General Information		Site Information	
Analyst	S. Bergin	Intersection	Ferry Point Rd/Site Roadway
Agency/Co.	Neel-Schaffer	Jurisdiction	City of Gautier
Date Performed	8/17/2011	Analysis Year	2014
Analysis Time Period	AM Peak		

Project Description <i>Cypress Landing</i>		North/South Street: <i>Ferry Point Road</i>
East/West Street: <i>Site Roadway</i>		Study Period (hrs): <i>0.25</i>
Intersection Orientation: <i>North-South</i>		

Vehicle Volumes and Adjustments						
Major Street	Northbound			Southbound		
	1	2	3	4	5	6
Movement	L	T	R	L	T	R
Volume (veh/h)		5	8	0	16	
Peak-Hour Factor, PHF	1.00	0.92	0.92	0.92	0.92	1.00
Hourly Flow Rate, HFR (veh/h)	0	5	8	0	17	0
Percent Heavy Vehicles	0	--	--	2	--	--
Median Type	<i>Undivided</i>					
RT Channelized			0			0
Lanes	0	1	0	0	1	0
Configuration			TR	LT		
Upstream Signal		0			0	

Minor Street	Eastbound			Westbound		
	7	8	9	10	11	12
Movement	L	T	R	L	T	R
Volume (veh/h)				23		0
Peak-Hour Factor, PHF	1.00	1.00	1.00	0.92	1.00	0.92
Hourly Flow Rate, HFR (veh/h)	0	0	0	24	0	0
Percent Heavy Vehicles	0	0	0	2	0	2
Percent Grade (%)		0			0	
Flared Approach		N			N	
Storage		0			0	
RT Channelized			0			0
Lanes	0	0	0	0	0	0
Configuration					LR	

Delay, Queue Length, and Level of Service								
Approach	Northbound		Westbound			Eastbound		
	1	4	7	8	9	10	11	12
Movement								
Lane Configuration		LT		LR				
v (veh/h)		0		24				
C (m) (veh/h)		1606		989				
v/c		0.00		0.02				
95% queue length		0.00		0.07				
Control Delay (s/veh)		7.2		8.7				
LOS		A		A				
Approach Delay (s/veh)	--	--		8.7				
Approach LOS	--	--		A				

TWO-WAY STOP CONTROL SUMMARY

General Information		Site Information	
Analyst	S. Bergin	Intersection	Ferry Point Rd/Site Roadway
Agency/Co.	Neel-Schaffer	Jurisdiction	City of Gautier
Date Performed	8/17/2011	Analysis Year	2014
Analysis Time Period	PM Peak		
Project Description: Cypress Landing		North/South Street: Ferry Point Road	
East/West Street: Site Roadway		Study Period (hrs): 0.25	
Intersection Orientation: North-South			

Vehicle Volumes and Adjustments						
Major Street	Northbound			Southbound		
Movement	1	2	3	4	5	6
	L	T	R	L	T	R
Volume (veh/h)		13	23	0	7	
Peak-Hour Factor, PHF	1.00	0.92	0.92	0.92	0.92	1.00
Hourly Flow Rate, HFR (veh/h)	0	14	24	0	7	0
Percent Heavy Vehicles	0	--	--	2	--	--
Median Type	Undivided					
RT Channelized			0			0
Lanes	0	1	0	0	1	0
Configuration			TR	LT		
Upstream Signal		0			0	

Minor Street	Eastbound			Westbound		
Movement	7	8	9	10	11	12
	L	T	R	L	T	R
Volume (veh/h)				13		0
Peak-Hour Factor, PHF	1.00	1.00	1.00	0.92	1.00	0.92
Hourly Flow Rate, HFR (veh/h)	0	0	0	14	0	0
Percent Heavy Vehicles	0	0	0	2	0	2
Percent Grade (%)		0			0	
Flared Approach		N			N	
Storage		0			0	
RT Channelized			0			0
Lanes	0	0	0	0	0	0
Configuration					LR	

Delay, Queue Length, and Level of Service								
Approach	Northbound	Southbound	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration		LT		LR				
v (veh/h)		0		14				
C (m) (veh/h)		1572		980				
v/c		0.00		0.01				
95% queue length		0.00		0.04				
Control Delay (s/veh)		7.3		8.7				
LOS		A		A				
Approach Delay (s/veh)	--	--		8.7				
Approach LOS	--	--		A				

Gautier Planning Commission

Regular Meeting

September 1, 2011

EXHIBITS SUBMITTED

THE FOLLOWING ITEMS WERE SUBMITTED INTO THE RECORD AT THE SEPTEMBER 1, 2011 REGULAR MEETING OF THE GAUTIER PLANNING COMMISSION REGARDING THE REQUEST FOR A PRELIMINARY PLAT APPROVAL FOR CYPRESS LANDING SUBDIVISION, FERRY POINT ROAD, (SILVERGIRL, LLC, OWNER) (GPC CASE #11-11-SD)

We the undersigned wish to Voice our objection to the lot size and density proposed for the Cypress Landing subdivision and want to ask that the city council of Gautier NOT approve any plan with a lot size of less than 1 acre for this development.

Line #	Printed Name	Page #	Signature	Address	Phone	Email
1	William Crawford		<i>William Crawford</i>	9800 Ferry Point Rd	228 381 0638	
2	Debbie Johnson		<i>Debbie Johnson</i>	9800 Ferry Point Rd	228-990-8706	
3	William Crawford		<i>William Crawford</i>	9800 Ferry Point Rd	228 990 554	
4	Donald R Crawford		<i>Donald R Crawford</i>	98 Ferry Point Rd	Gautier Ms. 228 366-7526	
5	Peter Card		<i>Peter Card</i>	9700 Ferry Point Rd	Gautier MS 228-623-2273	
6	ERNEST Applewhite		<i>ERNEST Applewhite</i>	9612 Ferry Point Rd	MS 228-497-1290	
7	Susan Applewhite		<i>Susan Applewhite</i>	9612 Ferry Point Rd	228-497-1290	
8	Michelle Clark		<i>Michelle Clark</i>	9528 Ferry Point Rd	228-522-1960	
9	John Charles		<i>John Charles</i>	9528 Ferry Point Rd	228-596-7150	
10	Paul C Leonard		<i>Paul C Leonard</i>	1816 Brookside DR	Gautier 228-497-2165	
11	Charlia Leonard		<i>Charlia Leonard</i>	1816 Brookside DR	Gautier 228-497-2165	
12	Gary Benefield		<i>Gary Benefield</i>	9609 Ferry Point Rd	Gautier (228) 217-9268	gary38cav@ya.com
13	Larry W Benefield		<i>Larry W Benefield</i>	9609 Ferry Pt Rd	228 990 9675	
14	Pauline Jalarwich		<i>Pauline Jalarwich</i>	2004 Lauban Ln	Gautier 228-497-9091	
15	Timothy Bailey		<i>Timothy Bailey</i>	2135 Kingless Dr	Gautier 228-238-6674	tdaily@cablecom.net
16	Paul Jalarwich		<i>Paul Jalarwich</i>	2004 Lauban Ln	Gautier 228-497-9091	
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