Prepared for:



In cooperation with Hinesville Area Metropolitan Planning Organization and the Liberty Consolidated Planning Commission

Prepared by:



March 2012

This study was prepared with financial support from the Office of Economic Adjustment, Department of Defense. The content reflects the views of the participating local government entities and stakeholders of the Fort Stewart/HAAF region and does not necessarily reflect the views of the Office of Economic Adjustment.

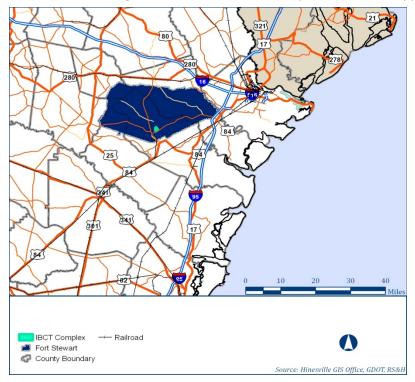


Introduction

This report presents alternative corridors for the Flemington Loop, a proposed road in Liberty County, Georgia. The study included a preliminary screening of several options, selection of four alternatives for further assessment, and documentation of the environmental impacts of each alternative. As the project enters the plan development phase, a full environmental assessment will be performed, which builds on the findings of this study, and a preferred alternative will be identified. Plan development will proceed when funding is available.

Project Background

Fort Stewart, Georgia, has added a new secure area outside of the main cantonment area. The 4th Infantry Brigade Combat Team Complex (4IBCT Complex) is located north of SR 144 and east of SR 119, off of Military Road 47. (See the figure below.) The 4IBCT Complex introduced approximately 4,700 soldiers and civilians in an



area of Fort Stewart that was previously unoccupied; approximately 1,400 soldiers live in the Complex. The soldiers, along with supporting civilian and contract employees, have generated increasing traffic on roads in the area including Old Sunbury Road, Military Road 47, and US 84/SR 38. For example, traffic on Old Sunbury Road increased from 4,720 AADT (reported by the Georgia Department of Transportation in 2010) to 7,494 vehicles after the IBCT opened. This represents an increase of 59%. The growing traffic has produced stakeholder concerns including the performance of the Old Sunbury Road/Military Road 47 corridor, impacts on residents in the corridor, and operations in the US 84 Flemington curve area.

Figure 1 Location Map

Purpose and Need

The Hinesville Area Metropolitan Planning Organization (HAMPO) has proposed constructing a new road to accommodate traffic from US 84/West Oglethorpe Highway in Liberty County to Fort Stewart's recently constructed 4IBCT Complex. The road will provide a bypass of Old Sunbury Road, a two lane road with historic significance in coastal Georgia. The new road, called the Flemington Loop, will also provide access to the civilian side of the MidCoast Regional Airport and proposed development adjacent to the airport in a Liberty County Development Authority (LCDA) development zone. Figure 2 shows the study area. The LCDA development zone





is located between the airport and Old Hines Road, just northeast of the study area. The entire study area is located in the City of Flemington or on Fort Stewart.

The new road is included in the HAMPO Long Range Transportation Plan, adopted October 2010. The adopted Transportation Investment Act (TIA) project list also includes the Flemington Loop as a designated improvement to receive funding through sales tax revenues. If the Transportation Investment Act referendum passes in the Coastal Georgia region, funds to design and construct the Flemington Loop will be collected starting in 2013. The project delivery framework for TIA projects is being developed by GDOT at this time; it is likely that specific projects will be managed locally and others will be managed by GDOT. The TIA legislation specifies that GDOT may delegate such construction and operation to governments and entities as appropriate to deliver projects.



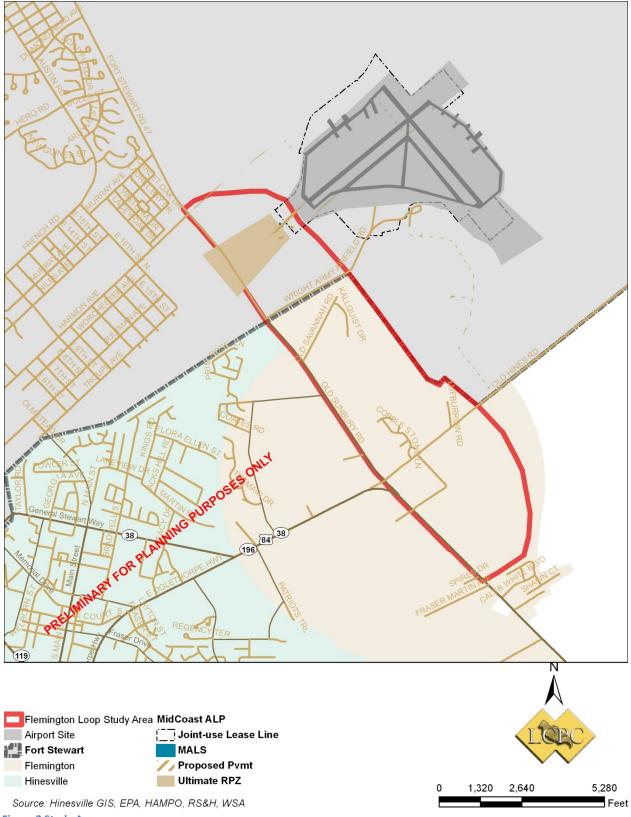


Figure 2 Study Area



MidCoast Regional Airport

The study area is adjacent to the MidCoast Regional Airport, a cooperative effort between the City of Hinesville, the Liberty County Board of Commissioners, the Liberty County Development Authority, and the United States Army, acting under a Joint Management Board (JMB). Per an Airport Layout Plan (ALP) provided in draft form to the study team, the JMB has plans to expand the airport, including future light industrial development and runway extensions. Runway 6 has an ultimate Runway Protection Zone (RPZ) that will extend across the existing location of Military Road 47. Figure 3 shows the study area, which is bordered by Military Road 47 and includes the ultimate RPZ location. Construction of any new roadway is not permitted to encroach on the ultimate RPZ; therefore the future intersection of Flemington Loop and Military Road 47 will need to avoid the ultimate RPZ.

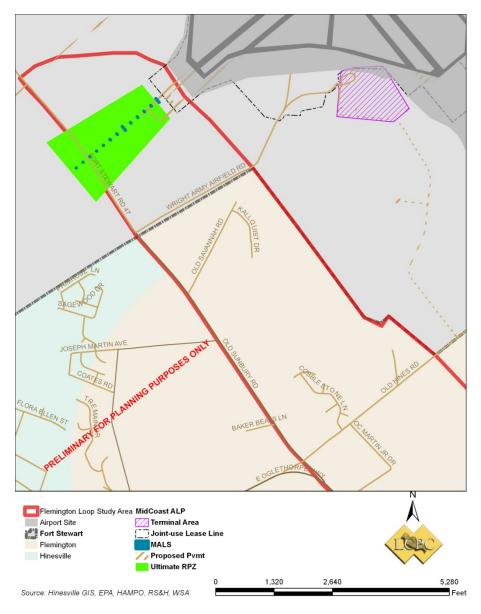


Figure 3 Airport Layout Plan



The terminal building, completed in 2007, contains a total of 13,825 square feet, which includes both a civilian Fixed Base Operation (FBO) terminal and military operations building (which is leased to the Army Corps of Engineers). The FBO terminal includes a large, open lobby with glass walls along the ramp side of the facility. There is also a conference/training room, offices, flight planning room, pilot lounge and snooze room, and other essentials such as free WiFi.

In addition to the terminal, other structures include 12 T-hangars, five box hangars, and a 10,000 square foot bulk hangar with a 30-foot door. The civilian general aviation part of the development also includes a large ramp and plans for a self-fueling facility and aircraft wash facility. To the northwest of the airport, Fort Stewart is currently constructing a hangar and operational facility for the Grey Eagle Unmanned Aerial System project.

Alternatives

One no-build alternative and four build alternatives are described below. The no-build alternative would result in increasing traffic volumes on Old Sunbury Road. This would require upgrading the historic road, with possible widening required in the future. Traffic calming strategies would also be required to ensure that residents continue to have access to their properties.

This report assesses alternatives that meet the need for the project while minimizing environmental and community impacts. The four alternatives described below were the most suitable alternative corridors after a screening process that included approximately twenty options.

Screening

Preliminary alternatives were screened based upon highway design criteria and environmental impacts, including:

- Does the alternative meet the purpose and need for the proposed roadway?
- Is standard roadway geometry feasible?
- What are the potential property impacts (including structures)?
- What are the potential natural resources impacts?
- What are the potential historic and cultural resources impacts?
- Is the alternative consistent with local plans, including proposed developments?
 - Local comprehensive and master plans
 - o Liberty County Development Authority
 - MidCoast Regional Airport
 - o Fort Stewart
 - o HAMPO plans
- Other potential impacts

The figure below shows the preliminary alternatives developed prior to identifying the four corridors for a thorough impact assessment. The preliminary alternatives were ranked based upon the criteria above as well as staff and stakeholder input. The top four were selected to move forward, and revised as additional constraints were identified.



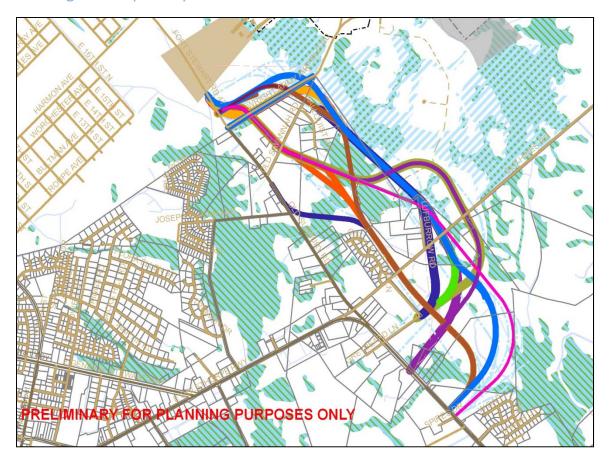


Figure 4 Preliminary Alternatives Developed for Screening

Impact Assessment Overview

Figure 5 shows the four alternatives that were reviewed in detail. All four alternatives follow the same alignment for the western portion shown as alternative "A,G,J,L" on the map. The potential impacts of each alternative are described below by topic. Table 2 provides a side-by-side comparison of each alternative and the evaluation criteria. These evaluation criteria are:

- Roadway length
- Estimated travel time
- Potential noise impacts
- Potential wetland impacts
- Potential floodplain impacts
- Adjacent upland acres (for development)
- Property impacts
- Roadway geometry

A map series showing conditions in the study area is located after the narrative.



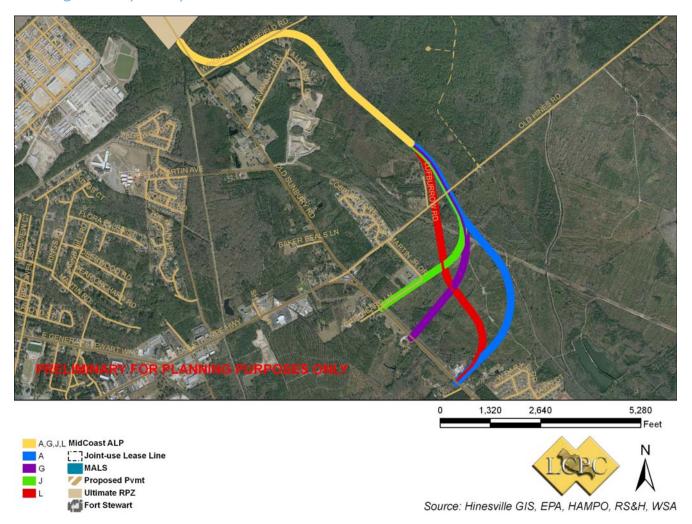


Figure 5 Flemington Loop Alternative Corridors

Transportation

The Flemington Loop alternatives were planned to accommodate a 55mph design speed, with continuous movement to Military Road 47 at the western terminus. The 200-foot wide corridors shown in Figure 5 will accommodate a range of cross-sections as the plan development process progresses. As adjacent land develops, access should be managed to ensure that mobility on the Flemington Loop is not degraded. Parallel frontage or reverse frontage roads should be considered. US 84/SR 38 will be the eastern terminus of the Flemington Loop. There is a US 84 access management project in the region's Long Range Transportation Plan, which includes a raised median and dedicated turn lanes. All four alternatives intersect US 84/SR 38 at proposed median openings, as shown in Figure 7.

Figure 8 shows that the 2035 projected traffic on US 84 will be near capacity adjacent to the study area. By providing an alternate route to the so-called Flemington curve on US 84 at Old Sunbury and Old Hines Roads, the Flemington Loop should help mitigate increasing traffic congestion as a result of development of the 4IBCT Complex and new development. The increased traffic on Old Sunbury Road, a historic corridor, should also be mitigated by any of the Flemington Loop build alternatives.



In order for the build alternatives to improve mobility, Flemington Loop travel times will need to be shorter than the existing Old Sunbury Road/MR 47 route. Travel times were estimated for both eastbound traffic coming from Hinesville (which may use Old Hines Road from US 84 and then proceed to the loop) and westbound traffic that will use the full bypass. Assuming average speeds of 45 mph on the alternatives, bypass travel times will range from 2.3 to 2.6 minutes, as shown in Table 2. The bypass will improve trip times only if the average speed on Old Sunbury Road/MR 47 is reduced to 28 mph or less. Per HAMPO staff, the current average speed on Old Sunbury Road has been documented at 48 mph, despite the 35 mph posted speed. Traffic calming measures will be needed to lower the speeds on Old Sunbury Road in order to mitigate the impact on adjacent residences, preserve the historic character of the roadway, and increase the viability of any of the bypass build alternatives.

All four alternatives make use of the existing Wright Field Road alignment, as shown in Figure 6. Wright Field Road is a paved two lane road which would be improved as part of the Flemington Loop. Existing traffic using Wright Field Road will need an alternate route to the military side of MidCoast Regional Airport (MCRA). Fort Stewart will be responsible for providing military side access to MCRA, including a new Access Control Point. The Master Planning Division and MCRA Joint Management Board are aware of the alternatives and have provided input into the alignments.

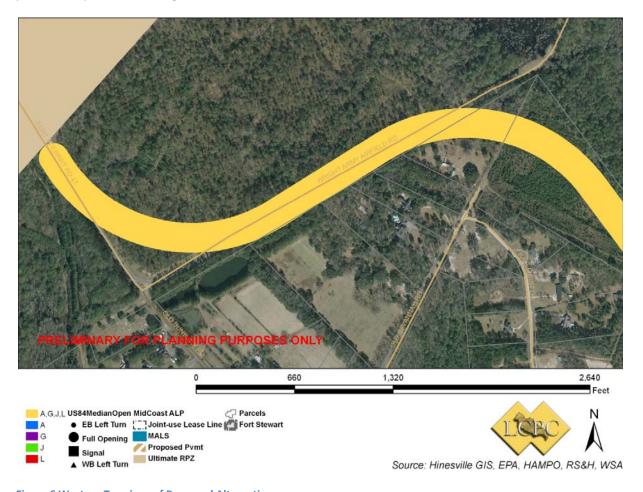


Figure 6 Western Terminus of Proposed Alternatives



Environmental Impacts

The sections that follow document potential environmental impacts of the four build alternatives for the proposed roadway.

Topography

The study area is relatively flat, with an elevation change from six meters to 22 meters across the study area, and a maximum localized grade of 2 percent. Figure 9 shows the topography of the study area.

Natural Resources

Figure 10 shows natural resources in the study area. There are no Environmental Protection Agency (EPA) sites of interest within the study area; this includes brownfields, hazardous waste sites, sensitive receptors, and water discharge sources.

Water Resources

Floodplain data was obtained from the Federal Emergency Management Agency Flood Insurance Rate Map database for Liberty County. Flood zones A and AE are within the 100-year floodplain. As shown in Figure 11, portions of the study area are within the 100-year and 500-year floodplains (labeled as 0.2 percent annual chance flood hazard). Table 2 shows that all four alternative corridors impact portions of the 100-year floodplain. Alternative A impacts a greater floodplain area than the other three as it approaches Peacock Creek and its tributary. There are no groundwater recharge areas or water supply watersheds in the study area.

Wetlands

All four alternatives impact wetlands that are included in the National Wetlands Inventory database and additional wetlands delineated for the 2006 supplemental Environmental Assessment (EA) for an access road to the Airport. These wetlands include the Goshen Swamp, which is to the east of MidCoast Regional Airport. Figure 12 shows wetlands and the four alternatives. Table 2 shows the acreage of wetlands contained in the 200-foot wide analysis corridors.

Noise

Noise-sensitive receptors within the impact area of the alternatives are single family residences. The closest residence is within 200 feet of Alternative A and Alternative L at their shared eastern terminus shown in Figure 7. Any noise impacts generated by traffic on the proposed roadway could be mitigated within this buffer zone or the larger buffers described in Table 2.



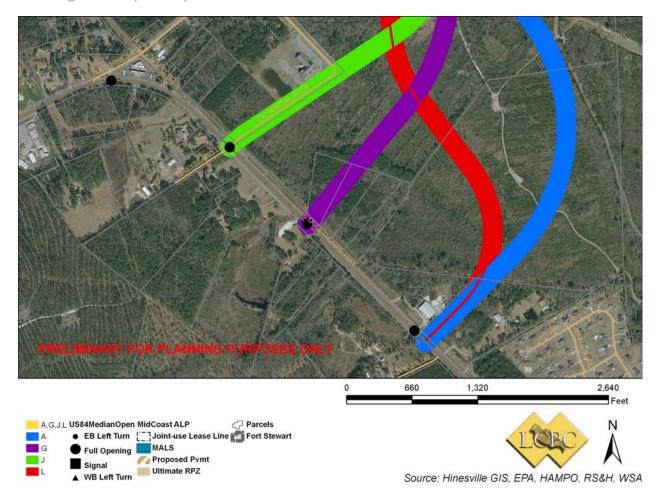


Figure 7 Eastern Termini of Alternative Corridors

Biological Resources

The Georgia Department of Natural Resources (GADNR) Natural Heritage Program Database System website and the U.S. Fish and Wildlife Service (USFWS) Endangered Species website were consulted regarding current federally listed Threatened and Endangered Species within the study area.

The northwestern quadrant of the study area on Fort Stewart has been identified by the Georgia Natural Heritage Program Database System as habitat for several rare and protected species, including those listed in the table below.

Table 1 Listed Species with Habitat in Study Area

| Common Name | Protection under the Endangered Species Act | State Status | Global Rarity Rank | State Rank |
|-------------------|--|-----------------|-----------------------|------------------|
| SCOMNAME | USESA | SPROT | GRANK | SRANK |
| Mud Sunfish | | | G5 Secure | S3 Vulnerable |
| Bachman's Sparrow | | Rare | G3 Vulnerable | S3 Vulnerable |





| Common Name | Protection under the | State | Global | State Rank |
|-------------------------|--|------------|------------------------------|------------------|
| | Endangered Species Act | Status | Rarity Rank | |
| SCOMNAME | USESA | SPROT | GRANK | SRANK |
| Flatwoods Salamander | LT Threatened | Threatened | G2G3 | S2 Imperiled |
| Eastern Indigo Snake | LT Threatened | Threatened | G3 Vulnerable | S3 Vulnerable |
| Gopher Tortoise | (PS:LT) listed as threatened in only a portion of the species range by USFWS | Threatened | G3 Vulnerable | S2 Imperiled |
| Slender Glass Lizard | | | G5 Secure | S3 Vulnerable |
| Mimic Glass Lizard | | | G3 Vulnerable | S2 Imperiled |
| Red-cockaded Woodpecker | LE Endangered | Endangered | G3 Vulnerable | S2 Imperiled |
| Florida Pine Snake | | | G4T3 Apparently Secure | S3 Vulnerable |
| Black Swamp Snake | | | G5 Secure | S3 Vulnerable |

Cultural Resources

There are no documented historic or cultural resources within the study area. Known sites near the study area include Flemington Presbyterian Church and its cemetery, and a cemetery on the south side of Old Sunbury Road at its intersection with Wright Field Road; these are shown in Figure 12.

Socioeconomic Resources

The proposed roadway would not adversely impact Environmental Justice communities. The build alternatives would not displace any residents or eliminate low income jobs.

Land Use

Figure 13 shows local zoning in the study area. The area on Fort Stewart impacted by the proposed alternatives is zoned Buffer Zone. The primary zoning in Liberty County is agricultural, with specific parcels zoned for residential and business uses. The zoning is consistent with the Comprehensive Plan Future Development Map shown in Figure 14. Although not documented in an adopted plan, City of Flemington long range plans call for commercial development along the Flemington Loop, focused on restaurants and hotels for the Fort Stewart community. Additionally, the Liberty County Development Authority has plans for a light industrial development zone to the north of the study area. The Flemington Loop will provide access to the development zone, as well as to a proposed civilian-use road to MidCoast Regional Airport. All four Flemington Loop alternatives will provide access to several undeveloped and developable parcels. Figure 15 shows existing land use in the study area.



Table 2 shows that Alternative A and Alternative L provide access to larger areas of developable land. It is likely that the new roadway will encourage development in these areas; access to new developments should be managed to ensure that the Flemington Loop provides for increased mobility between Fort Stewart and US 84.



Table 2 Summary of Impacts by Alternative

| | | | | | • |
|--|--|--|--|--|-----------------------------------|
| | | | | | |
| | | | | | |
| | Alternative A | Alternative G | Alternative J | Alternative L | "Do Nothing" Old Sunbury Route |
| Criteria | | | | | |
| Road Length (centerline miles) | 2.9 | 2.6 | 2.5 | 2.8 | 2. |
| Estimated travel time (minutes) | 2.6 | 2.3 | 2.3 | 2.5 | 3. |
| Eastbound trip length using Old Hines Rd | | | | | |
| (miles) | 2.5 | 2.5 | 2.5 | 2.4 | 1.0 |
| Potential Noise Impacts | CL 345 ft from one residence, 500 ft | | | | |
| | from another at Wright Rd. CL 550 ft to | | | | |
| | 650 ft from three Kallquist Dr | | | CL 345 ft from one residence, 500 ft | |
| | residences. | | | from another at Wright Rd. CL 550 ft to | |
| | CL 200 ft from two single family | | | 650 ft from three Kallquist Dr | |
| | residences at 083D-002 and 530 ft from | CL 345 ft from one residence, 500 ft | | residences. CL 230 ft to 315 ft from two | CL 50 to 300 ft from |
| | a third residence; 140 ft from | from another at Wright Rd. CL 550 ft to | CL 345 ft from one residence, 500 ft | Lufburrow Road residences; CL 200 ft to | approximately 20 SF residences |
| | Winlectric commercial building. | 650 ft from three Kallquist Dr | from another at Wright Rd. CL 550 ft to | 300 ft from two single family | and 65 MF residences; CL 140 ft |
| | CL 560 to 760 ft from two residences on | residences. CL 560 to 760 ft from two | 650 ft from three Kallquist Dr | residences at 083D-002 and 630 ft from | from one church and 150 to 375 ft |
| | Lufburrow Road. | residences on Lufburrow Road. | residences. | a third; | from two cemeteries |
| Potential Wetland Impacts (Acres) | 18.1 | 18.5 | 16.4 | 13.7 | NA |
| Potential 100-year Floodplain Impacts | | | | | |
| (Acres) | 29.3 | 15.0 | 13.4 | 18.1 | NA |
| Potential 500-year Floodplain Impacts | | | | | |
| (Acres) | 6.6 | 13.2 | 13.7 | 14.7 | NA |
| Upland Acres within 200 foot Corridor | 54.2 | 46.3 | 47.5 | 54.9 | NA |
| Adjacent Upland Acres (for | Access provided to eight parcels with | Access provided to nine parcels with | Access provided to seven parcels with | Access provided to eight parcels with | No additional access provided to |
| development) | developable land | developable land | developable land | developable land | developable land |
| Property Impacts | | | | | |
| | Two existing residential parcels (James | | Two existing residential parcels (James | Two existing residential parcels (James | |
| | Gillis and GSP Unlimited Inc.) would be | | Gillis and GSP Unlimited Inc.) would be | Gillis and GSP Unlimited Inc.) would be | |
| | impacted, taken in part by the right-of- | | impacted, taken in part by the right-of- | impacted, taken in part by the right-of- | |
| | way; however, no existing buildings | | way; however, no existing buildings | way; however, no existing buildings | |
| | are impacted. New alignment provides | | are impacted. New alignment provides | are impacted. New alignment provides | |
| | access to several vacant parcels, but | Two existing residential parcels (James | access to several vacant parcels, but | access to several vacant parcels, but | |
| | may increase traffic on Old Hines Road. | Gillis and GSP Unlimited Inc.) would be | may increase traffic on Old Hines Road. | may increase traffic on Old Hines Road. | |
| | Old Hines Road should be improved in | impacted, taken in part by the right-of- | Old Hines Road should be improved in | Old Hines Road should be improved in | |
| | coordination with the new roadway. | way; however, no existing buildings | coordination with the new roadway. | coordination with the new roadway. | |
| | Connection to US 84 at eastern | are impacted. New alignment provides | New connection to OC Martin Road, | Connection to US 84 at eastern | Based on property owner |
| | terminus is adjacent to existing | access to several vacant parcels, but | adjacent to Performing Arts Center, | terminus is adjacent to existing | feedback, growing congestion on |
| | commercial property. Driveway access | may increase traffic on Old Hines Road. | will increase traffic on that roadway, | commercial property. Driveway access | Old Sunbury Rd makes it difficult |
| | would be reconfigured due to new | Old Hines Road should be improved in | and may contribute to peak congestion | would be reconfigured due to new | for residents to access their |
| | construction. | coordination with the new roadway. | during special events. | construction. | property |
| Substandard Road Geometry | | | Impacted US 84 connection is 1,415 ft | | |
| | | | from Old Hines Rd intersection; this is | | |
| | | | above the GDOT minimum median | | |
| | | | crossover -and signal- spacing of 1,320 | | |
| | | | ft on rural roads and 1,000 ft on urban | | |
| | | | roads. However, given the unique | | |
| | | | nature of the US 84 "Flemington | | |
| | | | Curve", maximizing spacing between | | |
| | | | major intersections may be | Intersection less than 80 degress at Old | |
| | N/A | N/A | appropriate. | Hines Road. | N/A |



Stakeholder Involvement

The study included significant outreach to public agencies and other stakeholders. Work sessions were conducted with representatives of Fort Stewart, MidCoast Regional Airport, Liberty County Development Authority, and local jurisdictions. Sessions were also held with the City of Flemington staff and elected officials. Study progress was presented to the Fort Stewart Growth Management Partnership and HAMPO committees, including Georgia Department of Transportation staff. The following list highlights significant meetings during the project:

- October 6, 2011: Coordination meeting with MCRA, Fort Stewart, and County
- October 20, 2011: Coordination meeting with the City of Flemington
- November 4, 2011: HAMPO and GMP coordination meeting re: alternatives screening
- November 21, 2011: Coordination meeting with the City of Flemington
- November 22, 2011: Coordination meeting with Fort Stewart Department of Public Works and Master Planning
- December 8, 2011: Presentation to GMP Board meeting
- December 15, 2011: Coordination meeting with MCRA consultant staff
- January 2012: Presentation to HAMPO Technical Coordinating Committee
- February 2012: Presentation to HAMPO Policy Committee and GMP Board

In addition to the planning partner agency coordination, a workshop for property owners and their representatives was held on January 24, 2012. The public meeting was advertised in the local paper and in the City of Hinesville's news email blasts. Thirty-seven attendees, along with several staff members, discussed maps of the proposed alternatives and environmental resources, and other presentation materials. The study objectives, process, proposed alternatives, and potential funding sources were presented. Public comments were documented. In general, the workshop attendees were in favor of the Flemington Loop. Some property owners expressed a preference for a specific alternative. Many expressed a desire to expedite construction of an alternate route to Old Sunbury Road and the US 84 Flemington curve at the intersection with Old Sunbury Road. There were a few questions about access to the new roadway, and attendees were assured that access would need to be managed to maintain the speed and capacity of the proposed roadway. Consistent with the recommendations of this report, the study team suggested parallel access roads for new development along the Flemington Loop. Public meeting sign-in sheets are located at the end of this report.



Map Series

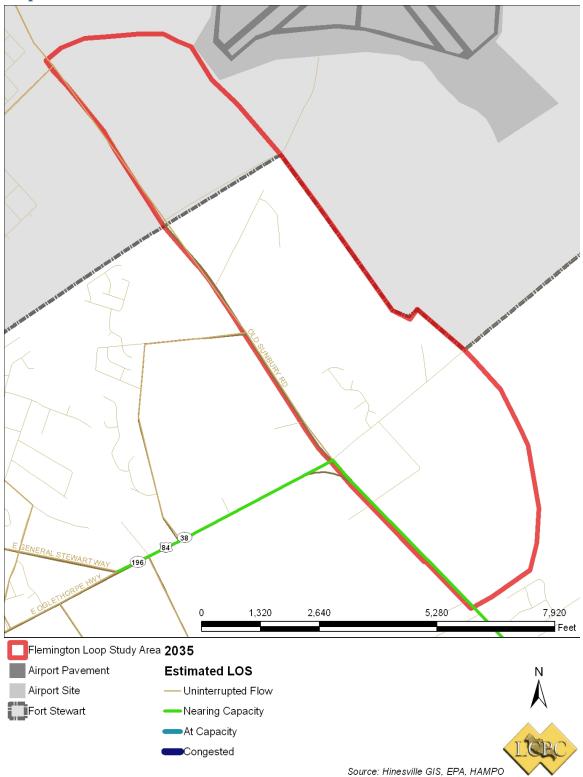


Figure 8 2035 Roadway Level of Service



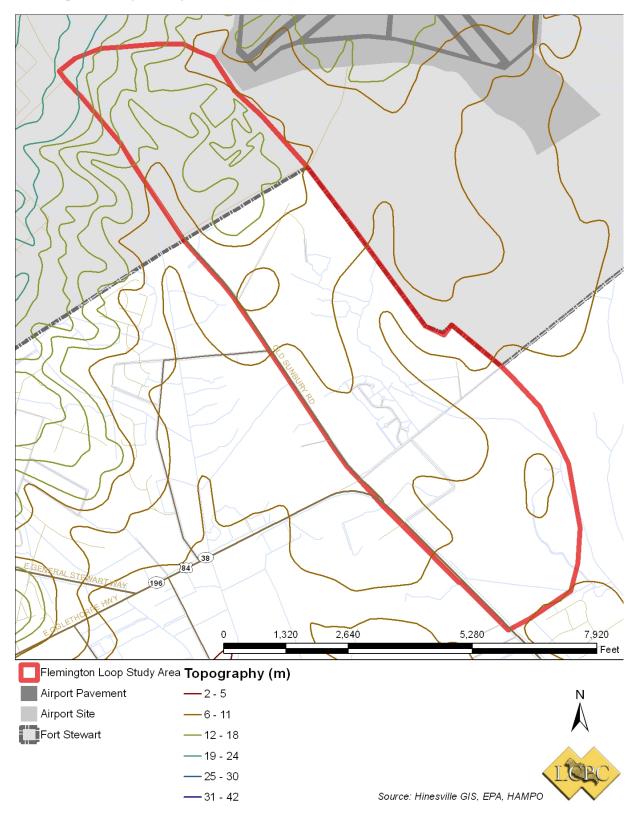


Figure 9 Topography



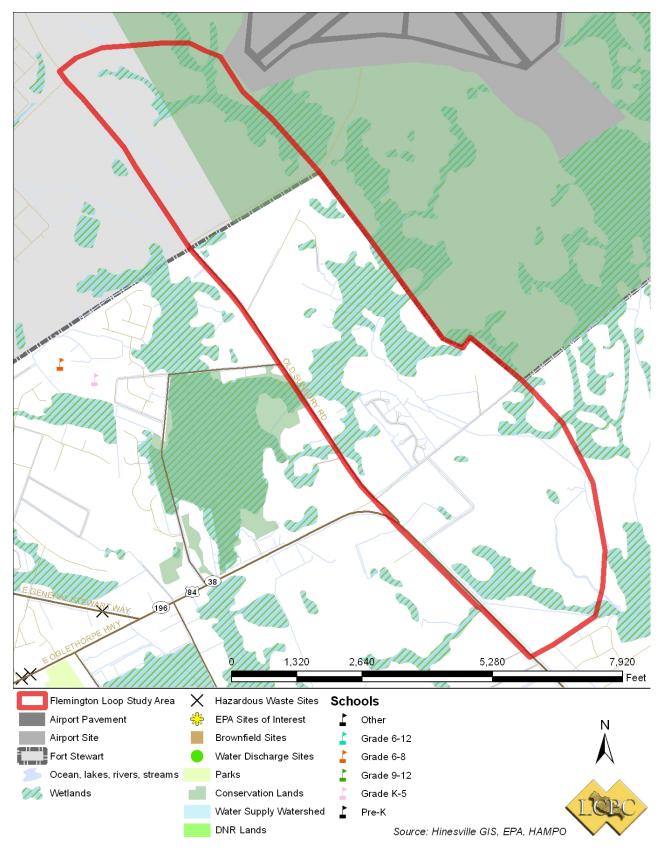


Figure 10 Natural Resources



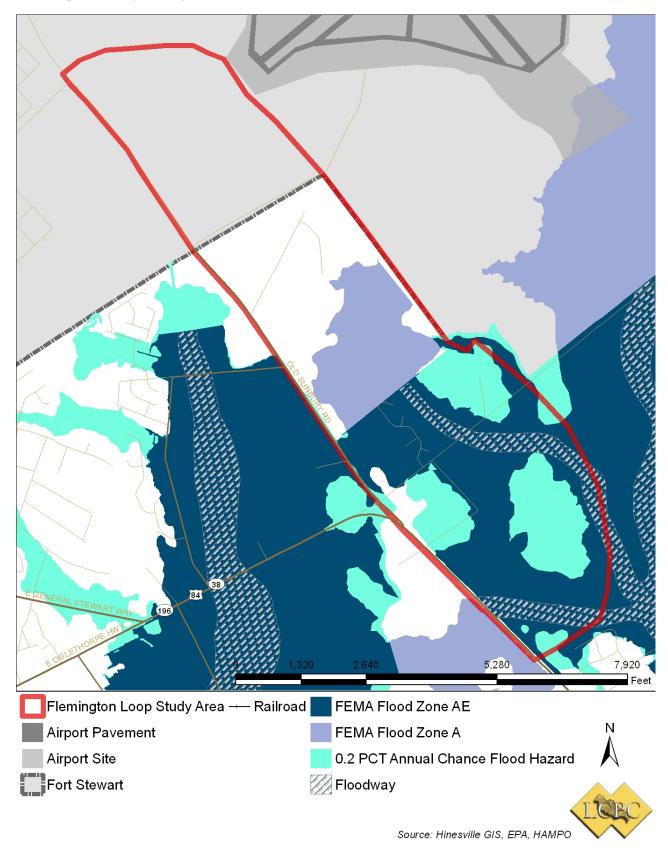


Figure 11 Flood Zones in the Study Area



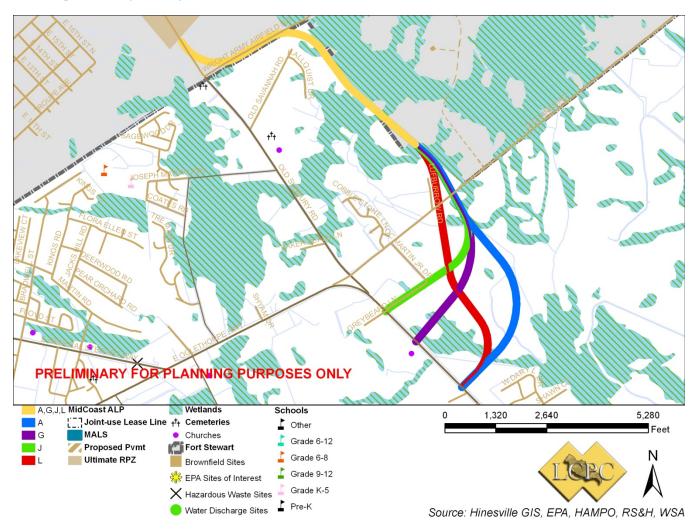


Figure 12 Natural Resources and Alternative Corridors



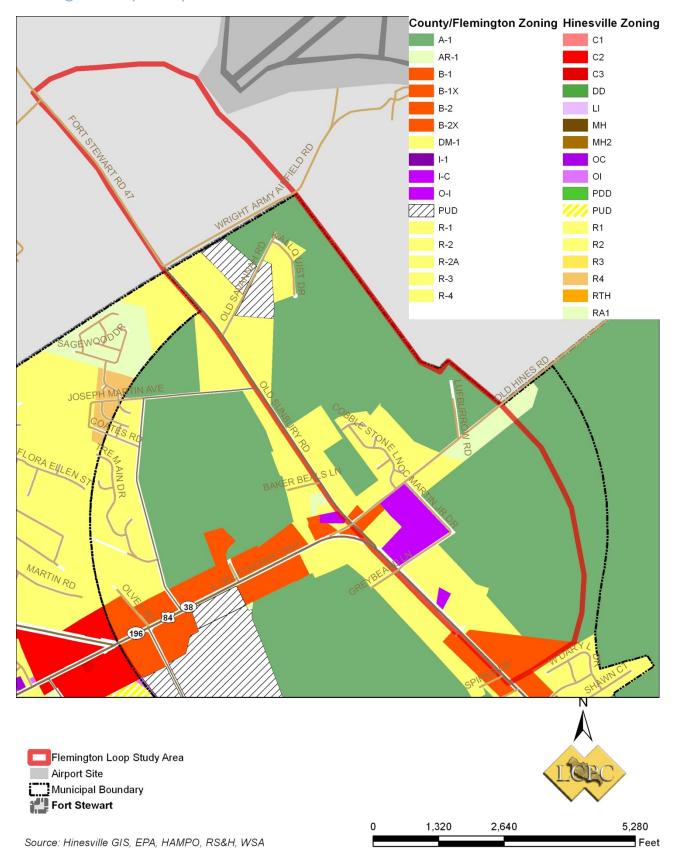


Figure 13 Zoning



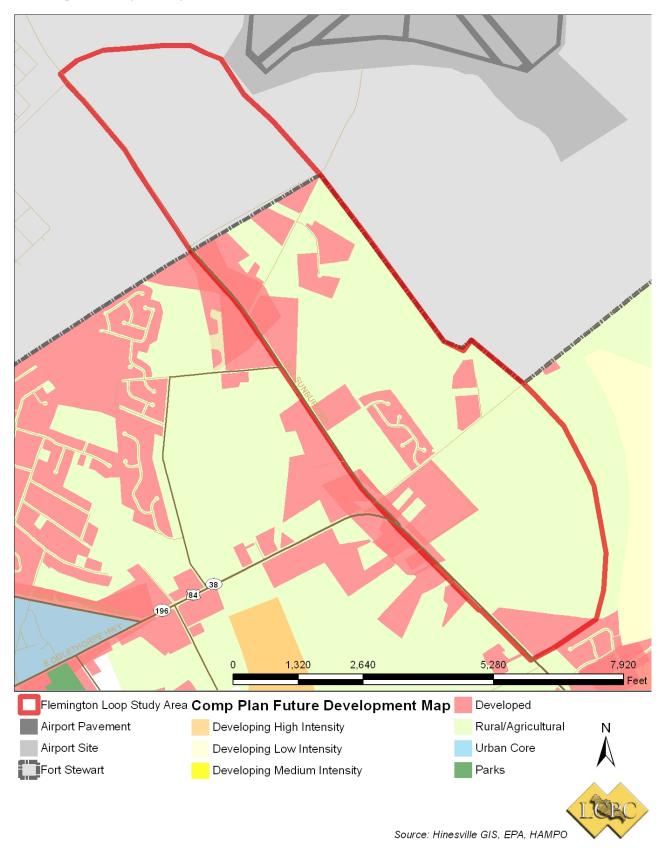


Figure 14 Comprehensive Plan Future Development Map



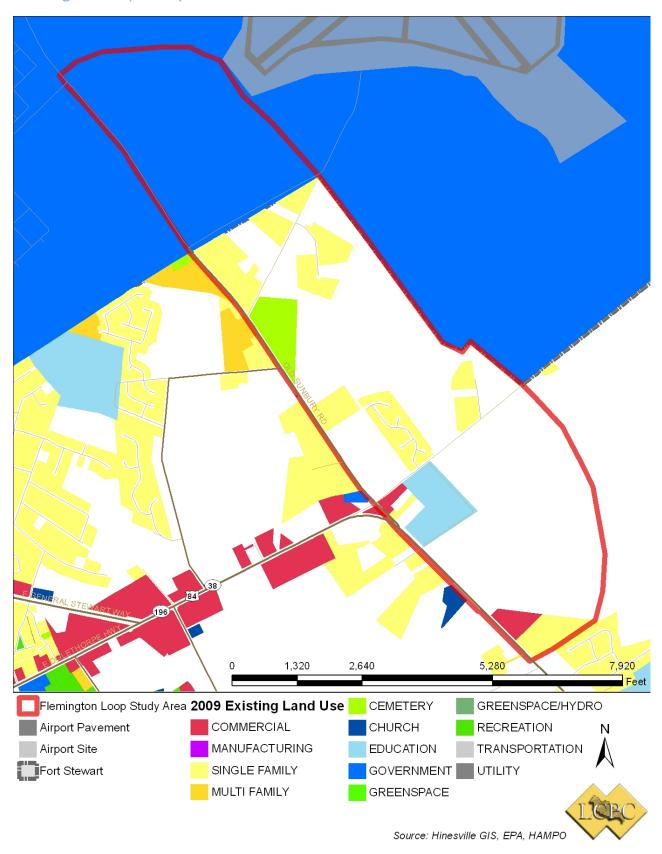


Figure 15 Existing Land Use



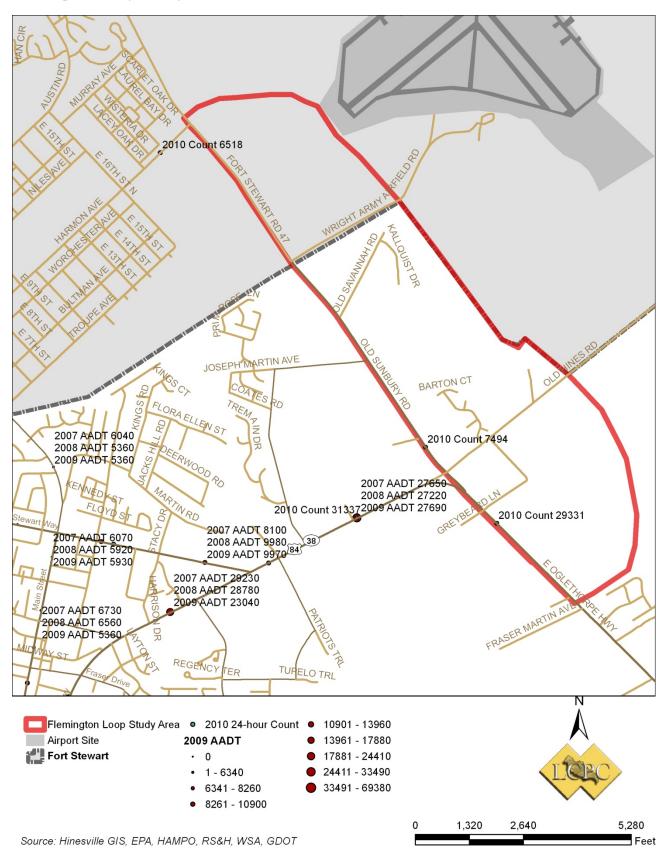


Figure 16 Traffic Counts



Public Meeting Sign-in Sheets

| I ubiic Me | teting sign-in sheets |
|------------|--|
| •, | Flemington Loop Public Participation |
| - Letter | NAME Phone H |
| ·V | Doniel & Duonita Jorne 17 Borton of 8762348 |
| | Herbert Stay |
| <u> </u> | JERRY Delench 481 010 SunBary Roms 876-2878 |
| _ <u> </u> | GEROLD DELOGANT 481 OLD Sumbury Rome 876-2878 |
| | WL HALL 515 OLD SUBBURY RUAD 876-2792 |
| | Robrey Bell #7014 Sunday Road 876-0008 |
| | Donna Bell 7010 Sumbung Rd 816-000 8 |
| ~ | Terry Force 165 Kanguist Dr 368-5622 |
| | Paul HAWKIRS 212 Joseph Moetin (876-2714 |
| | WILLIAM & Susan STEELKIAND 1445 LERRY Coffee Hay \$17-6600 |
| | Carol Fone 165 Kallquist |
| | Thomas L. Carter 1872 F. Oglethorge 8765095 |
| | Gene Davis 372 Old Sunbury for 8765981 |
| | Ackie Davis 322 Old Sunbury 8/ 8/16/9/8/ |
| | Bevoley Grilink 188 Old Susbury Rd 368-1433 |
| | David Edwards 188 Old Surbury Rd 368 1433 |
| | Danielle Hipps Coastal Courier 368-8601 |
| | Kerth Rahm 511 Fraser Dr 8765902 |
| | SANDRAM ARTIN JOHN MARTINR 876.3325 |
| <u> </u> | JOHN MARTIN "11 |
| Y | JAMES M Frond JR 133 Greybeard Love 977-1363 |
| | LORDY GEORGE 915 Ghd Hires Rd \$77-4629 |
| | PAYMER DASHER Z98 TREMAIN DR 876-5821 |
| | Christing S Wiese 9316 Revenewood Rd 682-936-2682 |
| | Marissathompson 17 Kockford Court (912432-1934 |
| , | JIM G, LLIS 500 GID DAVANDAL Rd (912) 492-7814 |



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| | Recoined |
| Name address ghous | letter |
| Doug Delzeth 115 Kellqust Dr. 912-977-5278 | YCS: |
| Renee Delzeith 118 Kallquist Dr 912-877-647 | 7 yes |
| Edwin Thompson 17 Rockford CT 912-610-0636 | Yes |
| Brandon Boyce 235 Magrola PQ M. Sway (412) 312-0403 | No |
| Fail Brans 2239 & Deletherpe 912-876-2767 | 22 |
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| | 9-4722 |
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| Jimm Smith | |
| V Donnie + William Smith 430 old Sunbury Rd 912 | -876-3989 |
| Speir Flanders 496 old Sunday Rd 30 | 68-6007 |
| Rachel Hatcher | |
| Donna Shives | |
| Whitney Shepherd | |
| Jeff Richetson | |
| Sonny Timmerman | |