City of Johns Creek Comprehensive Plan

Community Agenda Transportation Recommendations

June 10, 2008

Transportation and the Comprehensive Plan

- Comprehensive Plan Community Assessment
  - Outlines City's vision, needs and opportunities
  - Provides assessment of current conditions and future needs regarding multi-modal transportation network
- Comprehensive Plan Community Agenda
  - Establishes policies and associated strategies in response to identified needs and opportunities
  - Recommends individual projects/programs that address policies and strategies
  - Short Term Work Program (STWP) includes only those projects/programs to be implemented within first 5 years (2009-2013)
- Transportation Master Plan (Comprehensive Plan Appendix B)
  - Provides additional detail regarding transportation system recommendations
  - 20-year plan "horizon" addresses short and longer term needs
  - Highest priority projects are those from the STWP
  - Serves as the "platform" for future detailed project development studies

Important Transportation Considerations

- Coordinated development of Transportation Master Plan with Comprehensive Plan ensures strong connection between land use and transportation and mutually complementary policies and recommendations
- Transportation needs identification relied on growth patterns and projections regarding population and employment as determined through the Comprehensive Plan process
- Travel demand model enables evaluation of Johns Creek's transportation system within a regional context that also considers growth in adjacent jurisdictions
- Local travel needs internal to Johns Creek evaluated, as well as needs related to travel to/from and through the city
- Transportation assessment and program is multi-modal; pedestrian, bicycle and transit modes were considered in addition to roadway
- Individual project recommendations are defined only to characterize the need; future concept development studies will provide details and specifics

Transportation Issues

- Through trips contribute significantly to peak hour congestion
- Key intersection operations constrain corridor capacity
- Limited roadway connectivity requires travel through major intersections
- Effective local transit connections could serve emerging activity areas and connect to regional transit in Johns Creek
- Transit mixed with vehicular traffic has limited travel time advantage over automobiles
- Neighborhoods are not well connected to schools, parks and community facilities with sidewalks and bicycle facilities
- Longer distance bicycle and trail routes are needed to access parks and provide recreational opportunities
- Enhancing transportation safety for all travel modes is a priority

Transportation Opportunities

- Maximize corridor efficiency through improvement of congested intersections
- Add road connectivity to increase options beyond use of congested corridors
- Consider use of undeveloped land and/or easements to add pedestrian and bicycle connectivity
- Maximize use of technology to assist in traffic operations improvements
- Increase emphasis on transit through application and expansion of planned transit improvements
- Plan and build multimodal connections in potentially high pedestrian activity areas

Transportation Policies and Strategies

Transportation Policies

- Facilitate safe and efficient movement of traffic along key corridors to minimize congestion.
- Apply innovative approaches and technologies to improve mobility, safety and environmental quality.
- Enhance capacity along key corridors while preserving the existing character of the two-lane residential roads in Johns Creek.
- Connect the sidewalk and multi-use trail network to allow safe pedestrian and bicycle travel throughout Johns Creek.
- Explore public transportation options for Johns Creek commuter travel to the Atlanta core, Hartsfield-Jackson Airport, and surrounding communities.

Transportation Policies and Strategies

- Policy: Facilitate safe and efficient movement of traffic along key corridors to minimize congestion.
  - Improve connectivity to reduce congestion at critical intersections as development/redevelopment occurs.
  - Provide necessary operation at key intersections to prevent bottlenecks from limiting overall capacity along roadways, including alternative intersection treatments where needed.
  - Develop multi-modal circulation and loading area plans for all schools to reduce school related congestion.

Transportation Policies and Strategies

- Policy: Apply innovative approaches and technologies to improve mobility, safety and environmental quality.
  - Utilize access management techniques to increase mobility, safety, and interconnectivity.
  - Continue development and application of ITS (Intelligent Transportation Systems) and incident management technology.
  - Promote state-of-the-art signal system technology.
  - Promote travel demand management (TDM) strategies to reduce trips.
  - Encourage increased mixed use development/redevelopment.
  - Facilitate public-private funding partnerships for improvements.
  - Coordinate with state, regional and, local agencies responsible for environmental compliance and guidelines.

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Transportation Policies and Strategies

- Policy: Enhance capacity along key corridors while preserving the existing character of the two-lane residential roads in Johns Creek.
  - Enhance roadway capacity along high demand corridors.
  - Improve two-lane roads for efficient operations and safety.
  - Preserve current transportation investment through effective maintenance of transportation system.
  - Manage speed as appropriate to functional classification and adjacent land uses.

Transportation Policies and Strategies

- Policy: Connect the sidewalk and multi-use trail network to allow safe pedestrian and bicycle travel throughout Johns Creek.
  - Provide sidewalk and multi-use trail improvements to facilitate pedestrian and bicycle access within ½-mile of all schools, libraries, parks, and Chattahoochee River public use areas.
  - Connect sidewalk network to provide continuous sidewalk along all arterial and collector roads.
  - Create multi-use trail network based on adopted Multi-Use Trail Plan to include connections to adjacent jurisdictions' facilities and the Chattahoochee River.
  - Establish pedestrian and bicycle friendly policies and standards.

Transportation Policies and Strategies

- Policy: Explore public transportation options for Johns Creek commuter travel to the Atlanta core, Hartsfield-Jackson Airport, and surrounding communities.
  - Support GRTA, MARTA and GDOT efforts related to express transit service and commuter rail.
  - Support regional bus rapid transit (BRT) initiatives to connect Johns Creek to surrounding communities via State Bridge Road.
  - Provide adequate, safe and secure parking to support multi-modal and transit services.

Transportation Recommendations

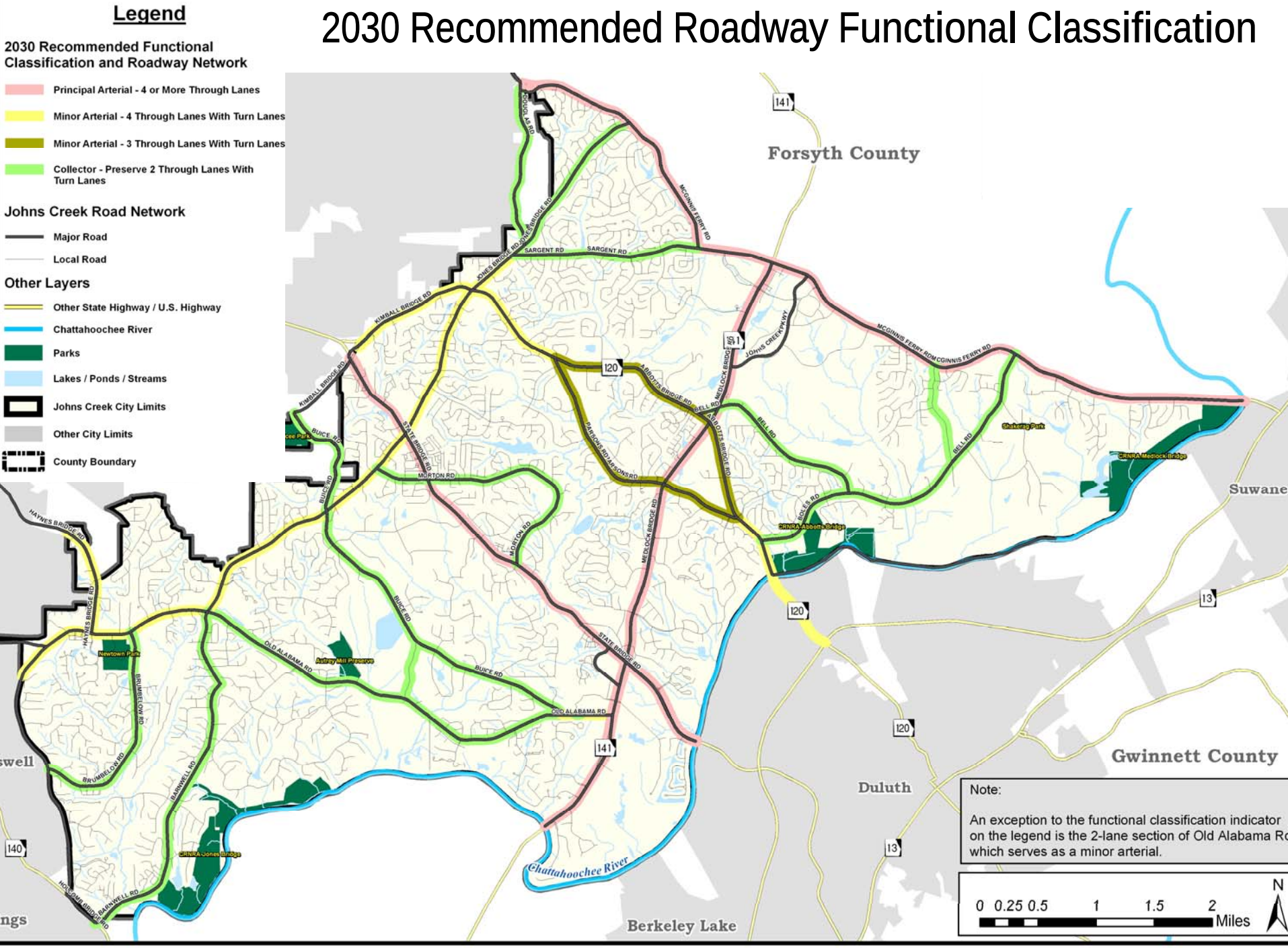
Short Term Work Program

- Approximately 60 transportation projects/programs for implementation in 2009-2013
  - Concept design studies
  - Intersection and corridor operational and geometric improvements
  - Roadway and bridge widening
  - Park and ride lots and Travel Demand Management strategies
  - Greenway and sidewalk construction
  - Pedestrian and bicycle plans and programs
  - System monitoring and maintenance

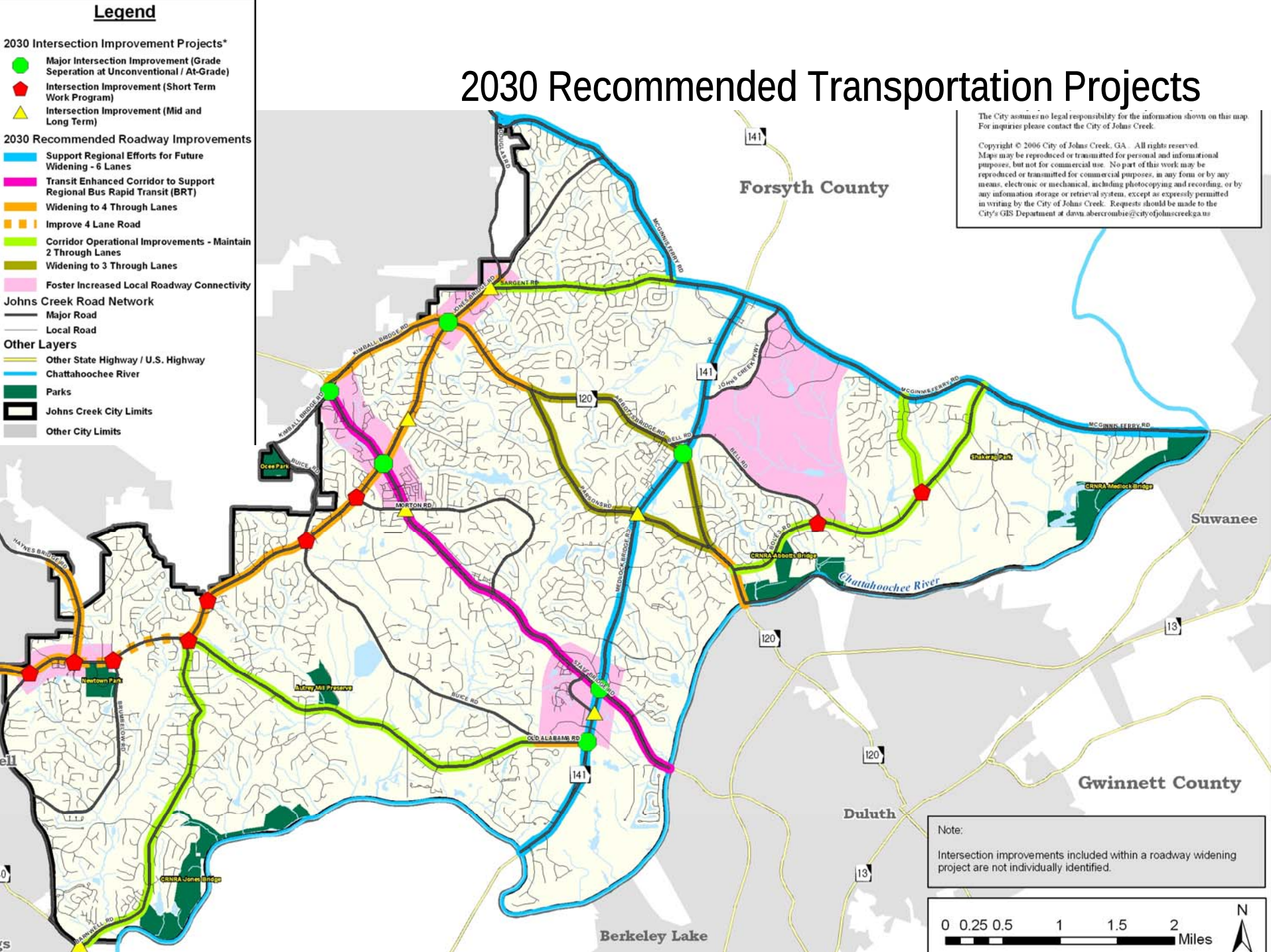
Transportation Master Plan Recommendations

- Approximately 115 projects/programs including roadway, intersection, pedestrian and bicycle, and transit improvements
- Highest priority recommendations included within the 5-year Short Term Work Program
- Additional, policy related recommendations
  - Functional classification system
  - Level of service (LOS) standard
- Phasing plan provides starting point for decision makers to use in prioritizing improvements for funding and implementation
- Implementation time period dependent on factors including level of need, estimated cost, available funding, and difficulty of implementation from a planning, design and/or permitting perspective

2030 Recommended Roadway Functional Classification



2030 Recommended Transportation Projects



Transportation Master Plan Program Recommendations

- Signal installation and timing
- Intersection improvement
- Access management
- Bridge maintenance
- Safe Routes to School
- Sidewalk connectivity and reconstruction
- Transit and Travel Demand Management (TDM)
- Road resurfacing
- Neighborhood traffic management