

BUILDING HIGHWAYS TO THE FUTURE

THE CITY OF JONESBORO MASTER STREET PLAN



Associated Engineering and Testing, LLC
Civil Engineering - Land Surveying - GIS Consulting - Materials Testing



Keys to Successful Master Street Plan

- Comprehensive and Compatible GIS System Data
- Knowledge of Transportation Studies
- Knowledge of State and Federal Funding
- Citizen Acceptance



Collect Existing and Historic Data

- AET GIS System parallels COJ System with additional features
- Guarantees compatibility
- Possess the current Master Street Plan
- AET works closely with AHTD, MPO on Regional Projects
- AET Team Members currently on Planning Commission and Land Use Advisory Plan

Review of Existing Thoroughfare Plans

- Currently possess the following studies
 - Jonesboro Transportation Improvement Program (JTIP)
 - Southwest Jonesboro Traffic Improvement Study
 - Arkansas State University – Traffic & Parking
 - Jonesboro Metropolitan Area Traffic System Plan
 - Jonesboro Metropolitan Planning Organization – Long Range Transportation Plan
 - Jonesboro Transportation Improvement Program
 - 1983



Inventory of Existing Right of Ways

- Begin with available GIS information
- Review cost effective measures and alternatives to correct the current situation
 - Plats
 - Block Maps
 - Multiple AHTD ROW surveys
 - Multiple COJ ROW surveys



Review Existing Population Projections

- Items available through:
 - AHTD
 - Chamber of Commerce
 - ASU
 - AEDC
 - Henry Jones



Review Existing and Historical Traffic Counts

- Research AHTD Archives
- Obtain traffic counts from the following:
 - AHTD
 - COJ
 - Chamber of Commerce
- AET currently owns/operates traffic count equipment for lane count and traffic turn movement
- Overlay improvements of Southwest Jonesboro Study by AET
- Identify Potential Generators based on Land Use



Identify Existing and Anticipated Roadway Capacity Problems

- Proposed Matrix per each roadway template
 - Number of Lanes
 - Level of Service (deficiencies)
 - Speed
 - Traffic Count
- Southwest Study identifies deficiencies.

Prepare a List of Capacity Improvement Alternatives

- Summary of proposed improvements from Matrices.
 - Includes JTIPS produced by AET
 - Culmination of AHTD, COJ, MATA, Chamber (Streets & Highways)
- Real Time / Living Document to update each Budget year.



Planning Level Cost Estimates



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- Cameron Construction is a Roadway Contractor
 - Provides up to date cost estimates.

Prepare a Written Report Related to the Thoroughfare Plan

- Written Report



Conduct Public Meetings

- Conduct Public Work Sessions
 - Accomplish Public Acceptance – “Buy-In”
 - Public and Governmental Support

Identification of the Existing Plans

- Currently possess the following studies
 - Jonesboro Transportation Improvement Program (JTIP)
 - Southwest Jonesboro Traffic Improvement Study
 - Arkansas State University – Traffic & Parking
 - Jonesboro Metropolitan Area Traffic System Plan
 - Jonesboro Metropolitan Planning Organization – Long Range Transportation Plan
 - ***Review existing Greenway and Bike Path Plans developed by the Parks and Recreation Dept.***
 - Jonesboro Transportation Improvement Program
 - 1983



Responsibility and Authority

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- Mike Cameron will be AET Program Manager
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Future Proposed Improvements

- All existing and proposed information will be GIS based

Coordination

- Coordination with:

- COJ

- MPO

- AHTD

- FHWA

- Coordination of State and Federal funding



Functional Classification Cross Sections

- Typical Roadway Cross-Sections will be provided per the design matrices using AASHTO Guidelines



Geometric Design Standards

- Geometric layout per AASHTO Guidelines.
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Process Requirements

- Work with COJ and MPO Staff
- Evaluate current approval process and make recommendations
- Assist COJ and MPO Staff with regulatory process and governmental changes

Road Zones

- Evaluate speed zones within each classification

Minimum Requirements

- Address all COJ, AHTD, FHWA design requirements
- Geometric, Structural, and Serviceability
- AASHTO Guidelines.



Zonal Options

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- Cohesive thought process to Land Use Plan
 - GIS System to parallel COJ GIS System
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Plat Approval

- Work with COJ Staff on implementation of Platting process.
- Review of all existing Plats for importation into GIS System



Policy/Procedure/Acceptance of Streets and Roads

- Review current procedures.
- Compare to other cities
- Review of current non-compliant Streets

Penalty

- Assessment to determine costs for compliance of existing conditions

Notification of Road Work

- GIS based Work Zone
 - Private
 - Commercial
 - COJ
 - AHTD
- Includes – Notice to Proceed & Substantial Completion

Road Names

- Road Names
 - GIS Based
 - Data Base corrections.



Flood Hazard Area

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- Work with COJ Engineering Staff per FEMA requirements
 - Includes LOMR information

Private or Commercial Drives

- Follow planned developments as mandated by Planning/Code
- Existing identified by aerial/GIS



SUMMARY

- Comprehensive and Compatible GIS System Data
- Knowledge of Transportation Studies
- Knowledge of State and Federal Funding
- Work with COJ and AHTD
- Work closely with COJ Government for Citizen Acceptance