

Durham Chapel-Hill Carrboro Metropolitan Planning Organization

FY2019 Unified Planning Work Program

Approved 2.14.18

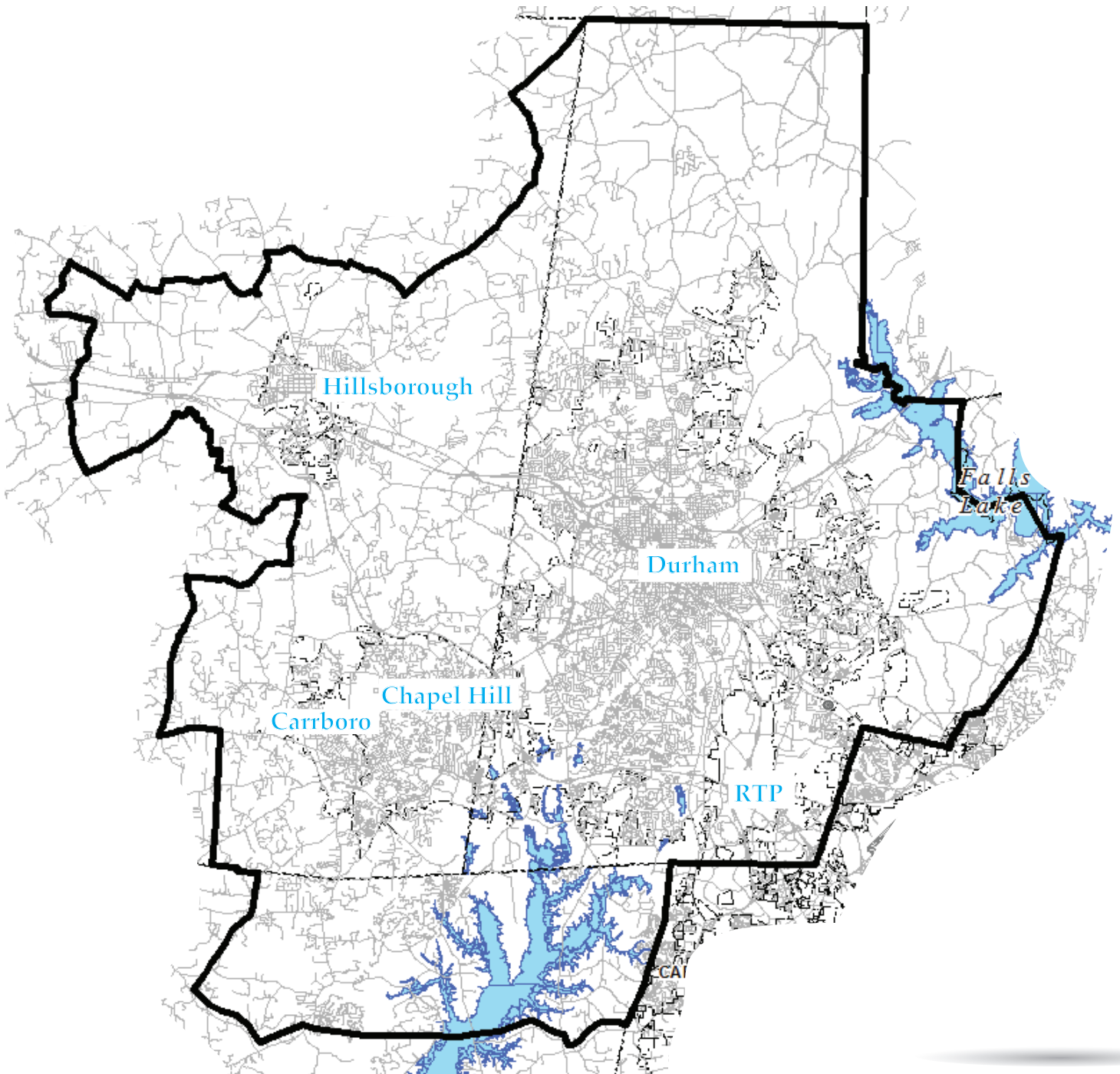


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Durham-Chapel Hill-Carrboro
Metropolitan Planning Organization
(DCHC MPO)
RESOLUTION (FTA and FHWA)
Approving the FY2019 Unified Planning Work
Program of the DCHC MPO

February 14, 2018

A motion was made by MPO Board Member ELLEN RECKHOW and seconded by MPO Board Member PAM HEMMINGER for the adoption of the following resolution, and upon being put to a vote was duly adopted.

Whereas, a comprehensive and continuing transportation planning program must be carried out cooperatively in order to ensure that funds for transportation projects are effectively allocated to the DCHC MPO; and

Whereas, the City of Durham Department of Transportation has been designated as the recipient of Federal Transit Administration (FTA) Metropolitan Planning Program funds; and

Whereas, the City of Durham Department of Transportation has been designated as the recipient of Section 104(f) Planning and Technical Studies Planning grant funds; and

Whereas, members of the DCHC MPO Board agree that the Unified Planning Work Program will effectively advance transportation planning for FY2019.

Now therefore, be it resolved that the MPO Board hereby endorses the *FY2019 Unified Planning Work Program for the DCHC MPO Urban Area.*

I, Damon Seils, Chair of the MPO Board do hereby certify that the above is a true and correct copy of an excerpt from the minutes of a meeting of the DCHC MPO Board, duly held on the 14th day of FEBRUARY, 2018.

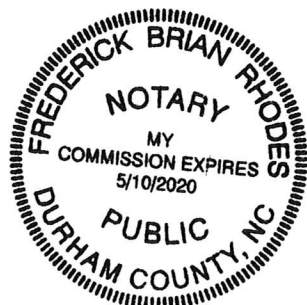
Damon Seils
Damon Seils, MPO Board Chair

Durham County, North Carolina

I certify that Damon Seils personally appeared before me this day acknowledging to me that he signed the forgoing document.

Date: 14 FEBRUARY, 2018

Frederick Brian Rhodes
Frederick Brian Rhodes, Notary Public
My commission expires: May 10, 2020



RESOLUTION CONFIRMING TRANSPORTATION PLANNING PROCESS

**RESOLUTION CERTIFYING THE DURHAM-CHAPEL HILL-CARRBORO
METROPOLITAN PLANNING ORGANIZATION (DCHC MPO)
TRANSPORTATION PLANNING PROCESS FOR FY2019**

Whereas, the MPO Board has found that the Metropolitan Planning Organization is conducting transportation planning in a continuous, cooperative, and comprehensive manner in accordance with 23 U.S.C. 134 and 49 U.S.C. 1607;

Whereas, the MPO Board has found the transportation planning process to be in compliance with Sections 174 and 176 (c) and (d) of the Clean Air Act (42 U.S.C. 7504, 7506 (c));

Whereas, the MPO Board has found the Transportation Planning Process to be in full compliance with Title VI of the Civil Rights Act of 1964 and the Title VI Assurance executed by each State under 23 U.S.C. 324 and 29 U.S.C. 794;

Whereas, the MPO Board has considered how the Transportation Planning Process will affect the involvement of Disadvantaged Business Enterprises in the FHWA and the FTA funded planning projects (Sec. 105(f), Pub. L. 97-424, 96 Stat. 2100, 49 CFR part 23);

Whereas, the MPO Board has considered how the Transportation Planning Process will affect the elderly and the disabled per the provision of the Americans with Disabilities Act of 1990 (Pub. L. 101-336, 104 Stat. 327, as amended) and the U.S. DOT implementing regulations (49 CFR parts 27, 37, and 38);

Whereas, the DCHC MPO Metropolitan Transportation Improvement Program is a subset of the currently conforming Metropolitan Transportation Plan (MTP);

Whereas, the Transportation Plan has a planning horizon year of 2045, and meets all the requirements for an adequate Transportation Plan,

Now therefore, be it resolved that the DCHC Urban Area MPO Board certifies the transportation planning process for the DCHC Metropolitan Planning Organization on this the 14th day of FEB, 2018.



Damon Seils,
Board Chair



Clerk/Secretary/Planner

Metropolitan Planning Self-Certification Process

CFR 450.334 - The State and MPO shall annually certify to FHWA and FTA that the planning process is addressing the major issues facing the area and is being conducted in accordance with all applicable requirements of:

- Section 134 of title 23 U.S.C., section 8 of the Federal Transit Act (49 U.S.C. app. 1607) and;
- Section 174 and 176 (c) and (d) of the Clean Air Act (42 U.S.C. 7504, 7506 (c) and (d));
- Title VI of the Civil Rights Act of 1964 and Title VI assurance executed by each state under 23 U.S.C. 324 and 29 U.S.C. 794;
- Section 103(b) of the Intermodal Surface Transportation Efficiency Act of 1991 (Public Law 102-240) regarding the involvement of disadvantaged business enterprises in the FHWA and the FTA funded planning projects; and
- The provisions of the Americans with Disabilities Act of 1990 (Public Law 101-336, 104 Stat. 327, as amended) and U.S. DOT regulations “Transportation for Individuals with Disabilities” (49 CFR parts 27, 37, and 38).

In addition, the following checklist should help guide the MPO as they review their processes and programs for self-certification.

1. Is the MPO properly designated by agreement between the Governor and 75% of the urbanized area, including the central city, and in accordance in procedures set forth in state and local law (if applicable)? [23 U.S.C. 134 (b); 49 U.S.C. 5303 (c); 23 CFR 450.306 (a)]. Response: Yes
2. Does the policy board include elected officials, major modes of transportation providers and appropriate state officials? [23 U.S.C. 134 (b); 49 U.S.C. 5303 (c); 23 CFR 450.306 (i)]
Response: Yes, the policy board includes elected official/representatives of Durham City, Durham County, Town of Carrboro, Town of Chapel Hill, Town of Hillsborough, Orange County, Chatham County, NCDOT BOT and GoTriangle (regional transit representative).
3. Does the MPO boundary encompass the existing urbanized area and the contiguous area expected to become urbanized within the 20-yr forecast period? [23 U.S.C. 134 (c), 49 U.S.C. 5303 (d); 23 CFR 450.308 (a)] Response: Yes
4. Is there a currently adopted Unified Planning Work Program? [23 CFR 450.314] Response: Yes.
 - a. Is there an adopted prospectus? Yes
 - b. Are tasks and products clearly outlined? Yes
 - c. Is the UPWP consistent with the MTP? Yes
 - d. Is the work identified in the UPWP completed in a timely fashion? Yes
5. Does the area have a valid transportation planning process? Response : Yes [23 U.S.C. 134; 23 CFR 450]
 - a. Is the transportation planning process continuous, cooperative and comprehensive? Yes
 - b. Is there a valid MTP? Yes
 - c. Did the MTP have at least a 20-year horizon at the time of adoption? Yes
 - d. Does it address the 8-planning factors? Yes,
 - e. Does it cover all modes applicable to the area? Yes
 - f. Is it financially constrained? Yes
 - g. Does it include funding for the maintenance and operation of the system? Yes
 - h. Does it conform to the State Implementation Plan (SIP) (if applicable)? Yes
 - i. Is it updated/reevaluated in a timely fashion (at least every 4 or 5 years)? Yes

6. Is there a valid TIP? [23 CFR 450.324, 326, 328, 330, 332] Response: Yes
 - a. Is it consistent with the MTP? Yes
 - b. Is it fiscally constrained? Yes
 - c. Is it developed cooperatively with the state and local transit operators? Yes.
 - d. Is it updated at least every 4-yrs and adopted by the MPO and the Governor? Yes

7. Does the area have a valid CMP? (TMA only) [23 CFR 450.320] Response: Yes
 - a. Is it consistent with the MTP? Yes
 - b. Was it used for the development of the TIP? Yes
 - c. Is it monitored and reevaluated to meet the needs of the area? Yes

8. Does the area have a process for including environmental mitigation discussion in the planning process? Yes
 - a. How? Through periodic meeting with environmental resource agencies and involving the agencies in the MTP process.
 - b. Why not? N/A

9. Does the planning process meet the following requirements? Response: Yes.
 - a. 23 U.S.C. 134, 49 U.S.C. 5303, and this subpart;
 - b. In nonattainment and maintenance areas, sections 174 and 176 (c) and (d) of the Clean Air Act, as amended 42 U.S.C. 7504, 7506 (c) and (d) and 40 CFR part 93;
 - c. Title VI of the Civil Rights Act of 1964, as amended 42 U.S.C. 2000d-1 and 49 CFR part 21;
 - d. 49 U.S.C. 5332, prohibiting discrimination on the basis of race, color, creed, national origin, sex, or age in employment or business opportunity;
 - e. MAP-21/FAST Act and 49 CFR part 26 regarding the involvement of disadvantaged business enterprises in USDOT funded projects;
 - f. 23 CFR part 230, regarding the implementation of an equal employment opportunity program on Federal and Federal-aid highway construction contracts;
 - g. The provisions of the Americans with Disabilities Act of 1990 Sections 42 U.S.C. 12101 et seq. and 49 CFR parts 27, 37, and 38;
 - h. The Older Americans Act, as amended 42 U.S.C. 6101, prohibiting discrimination on the basis of age in programs or activities receiving Federal financial assistance;
 - i. Section 324 title 23 U.S.C. regarding the prohibition of discrimination based on gender; and
 - j. Section 504 of the Rehabilitation Act of 1973 29 U.S.C. 794 and 49 CFR part 27 regarding discrimination against individuals with disabilities.
 - k. All other applicable provisions of Federal law. (i.e. Executive Order 12898)

10. Does the area have an adopted PIP/Public Participation Plan? [23 CRR 450.316 (b)(1)]? Yes
 - a. Did the public participate in the development of the PIP? Yes
 - b. Was the PIP made available for public review for at least 45-days prior to adoption? Yes.
 - c. Is adequate notice provided for public meetings? Yes.
 - d. Are meetings held at convenient times and at accessible locations? Yes.
 - e. Is public given the opportunity to provide oral/written comment on planning process? Yes.
 - f. Is the PIP periodically reviewed and updated to ensure its effectiveness? Yes.
 - g. Are plans and documents available in an electronic accessible format, i.e. MPO website? Yes

11. Does the area have a process for including environmental, state, other transportation, historical, local land use and economic development agencies in the planning process? Yes
 - a. How? Through inter-agency coordination, and collaboration
 - b. Why not? N/A

DCHC MPO Title VI Assurances

The Durham-Chapel Hill-Carrboro Metropolitan Planning Organization –DCHC MPO (hereinafter referred to as the “Recipient”) HEREBY AGREES THAT as a condition to receiving any Federal financial assistance from the North Carolina Department of Transportation and the US Department of Transportation it will comply with the Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d-42 (hereinafter referred to as the Act), and all requirements imposed by or pursuant to Title 49, Code of Federal Regulations, Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-Assisted Programs of the Department of Transportation. Effectuation of Title VI of the Civil Rights Act of 1964 (hereinafter referred to as the Regulations) and other pertinent directives, to the end that in accordance with the Act, Regulations, and other pertinent directives, no person in the United States shall, on the grounds of race, color, sex, age, national origin or disability be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity for which the Recipient receives Federal financial assistance from the Department of Transportation, including the Federal Highway Administration, and HEREBY GIVES ASSURANCE THAT it will promptly take any measures necessary to effectuate this agreement. This assurance is required by subsection 21.7(a) (1) of the Regulations.

More specifically and without limiting the above general assurance, the Recipient hereby gives the following specific assurances with respect to its Federal-Aid Highway Program:

1. That the Recipient agrees that each “program” and each “facility” as defined in subsections 21.23 (b) and 21.23 (e) of the Regulations, will be (with regard to a “program”) conducted, or will be (with regard to a “facility”) operated in compliance with all requirements imposed by, or pursuant to, the Regulations.
2. That the Recipient shall insert the following notification in all solicitations for bids for work or material subject to the Regulations made in connection with the Federal-Aid Highway Program and, in adapted form in all proposals for negotiated agreements:

The DCHC MPO in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

3. That the Recipient shall insert the clauses of Appendix A of this assurance in every contract subject to the Act and the Regulations.
4. That the Recipient shall insert the clauses of Appendix B of this assurance, as a covenant running with the land, in any deed from the United States effecting a transfer of real property, structures, or improvements thereon, or interest therein.
5. That where the Recipient receives Federal financial assistance to construct a facility, or part of a facility, the assurance shall extend to the entire facility and facilities operated in connection therewith.

6. That where the Recipient receives Federal financial assistance in the form, or for the acquisition of real property or an interest in real property, the assurance shall extend to rights to space on, over or under such property.
7. That the Recipient shall include the appropriate clauses set forth in Appendix C of this assurance, as a covenant running with land, in any future deeds, leases, permits, licenses, and similar agreements entered into by the Recipient with other parties: (a) for the subsequent transfer of real property acquired or improved under the Federal-Aid Highway Program; and (b) for the construction or use of or access to space on, over or under real property acquired, or improved under the Federal-Aid Highway program.
8. That this assurance obligates the Recipient for the period during which Federal financial assistance is extended to the program, except where the Federal financial assistance is to provide, or is in the form of, personal property, or real property or interest therein or structures or improvements thereon, in which case the assurance obligates the Recipient or any transferee for the longer of the following periods: (a) the period during which the property is used for a purpose for which the Federal financial assistance is extended, or for another purpose involving the provision of similar services or benefits; or (b) the period during which the Recipient retains ownership or possession of the property.
9. The Recipient shall provide for such methods of administration for the program as are found by the Secretary of Transportation or the official to whom he delegates specific authority to give reasonable guarantee that it, other recipients, subgrantees, contractors, subcontractors, transferees, successors in interest, and other participants of Federal financial assistance under such program will comply with all requirements imposed or pursuant to the Act, the Regulations and this assurance.
10. The Recipient agrees that the United States has a right to seek judicial enforcement with regard to any matter arising under the Act, the Regulations, and this assurance.

THIS ASSURANCE is given in consideration of and for the purpose of obtaining any and all Federal grants, loans, contracts, property, discounts or other Federal financial assistance extended after the date hereof to the Recipient under the Federal-Aid Highway Program and is binding on it, other recipients, subgrantees, contractors, subcontractors, transferees, successors in interest and other participants in the Federal-Aid Highway Program. The person or persons whose signatures appear below are authorized to sign this assurance on behalf of the Recipient.

Damon Seils

Damon Seils, MPO Board Chair

02/14/2018

Date

Felix Nwoko

Felix Nwoko, Ph.D.
DCHC MPO Manager

2/14/2018

Date

Introduction

The DCHC MPO is required by federal regulations to prepare an annual Unified Planning Work Program (UPWP) that details and guides the urban area transportation planning activities. Funding for the UPWP is provided on an annual basis by the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA). Essentially, the UPWP provides yearly funding allocations to support the ongoing transportation planning activities of the DCHC MPO. The UPWP must identify MPO planning tasks to be undertaken with the use of federal transportation funds, including highway and transit programs. Tasks are identified by an alphanumeric task code and description. A complete narrative description for each task is more completely described in the *Prospectus for Continuing Transportation Planning for the Durham-Chapel Hill-Carrboro Metropolitan Planning Organization*, approved by the TAC on February 13, 2002. The *Prospectus* was developed by NCDOT in cooperation with MPOs throughout the state.

The UPWP also contains project descriptions for special projects and Federal Transit Administration (FTA) projects. Special project descriptions are provided by the responsible agency. FTA planning project task descriptions, FTA Disadvantaged Businesses Contracting Opportunities forms, and FTA funding source tables are also included in this work program.

The funding source tables reflect available federal planning fund sources and the amounts of non-federal matching funds. The match is provided through either local or state funds or both. Section 104(f) funds are designated for MPO planning and are used by the Lead Planning Agency to support MPO planning functions. Section 133(b)(3)(7) funds are the portion of STBG-DA funds flexed to the UPWP for MPO planning. The LPA and MPO jurisdictions use these funds to support the MPO planning functions and regional special projects, such as the Regional Freight Plan, data collection geo-database enterprise update, regional model update and enhancement, Triangle Toll Study, CSX study, NC 98 Corridor Study, travel behavior surveys and onboard transit survey, etc.

The main source of funds for transit planning for Chapel Hill Transit (CHT) and GoDurham is the Federal Transit Administration's Section 5303 funds. These funds are allocated by NCDOT's Public Transportation Division (PTD). Transit agencies can also use portions of their Section 5307 capital and operating funds for planning. These funds must be approved by the MPO Board as part of the UPWP approval process.

Proposed FY2019 UPWP Activities and Emphasis Areas

DCHC MPO activities and emphasis areas for the FY19 UPWP are summarized as follow:

- Preparatory work on the development of the 2050 Metropolitan Transportation Plan (MTP)
- Development of the 2020-27 MTIP
- Commence work activities associated with SPOT6
- Continue to implement Fast Act Metropolitan Planning requirements
- Monitor of ADA Transition Plan and Self-Assessment
- Monitoring of Title VI compliance
- Monitoring of Safety Targets
- Monitoring of State of Good Repairs Targets
- Continuation of routine planning- TIP, UPWP, Data monitoring, GIS, Public Involvement, AQ, etc.
- Continuation of special and mandated projects/programs: Title VI, LEP, EJ, safety/freight, modeling,
- Rolling household survey
- TRM V7 initiation and preparatory work

- TRM V6, land-use, Geocoder, integration of Community Viz with UrbanSim, CMP, transit, CTP, Asset Management Plan for all modes (required for all transit agencies), etc.
- 2016 Estimation Year data collection, inventory, analysis and tabulation for the TRM V7 (to be aligned and streamlined with CMP Data collection efforts)
- 2045 MTP – Public outreach for the draft plan and Plan adoption, etc.
- Preparation of Base Year data collection/inventory and travel survey for the major model update
- Annual (continuous ACS-style) surveys (household, transit onboard, cordon, etc.)
- Regional transit and implementation and update of County transit plans
- Congestion Management Process CMP- State of the System Report
- MPO-wide Mobility Report Card update
- Implementation of the Regional Freight Plan
- Continuation of the MPO website update, enhancement and application (portals) development
- Update and enhancement of the MPO geo-database enterprise
- Other 3-C planning process activities

Metropolitan Planning Factors & Federal Requirements

Federal transportation regulations require MPOs to consider specific planning factors when developing transportation plans and programs in the metropolitan area. Current legislation calls for MPOs to conduct planning that:

1. Supports the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency;
2. Increases the safety of the transportation system for motorized and non-motorized users;
3. Increases the security of the transportation system for motorized and non-motorized users;
4. Increases the accessibility and mobility of people and for freight;
5. Protects and enhances the environment, promote energy conservation, improve quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns;
6. Enhances the integration and connectivity of the transportation system, across and between modes, for people and freight;
7. Promotes efficient system management and operation;
8. Emphasizes the preservation of the existing transportation system.
9. Improves the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation; and
10. Enhances travel and tourism

In addition, the current administration is promoting livability principles that are to be considered in the metropolitan planning process activities. These principles are:

- Provide more transportation choices
- Promote equitable, affordable housing
- Enhance economic competitiveness
- Support existing communities
- Coordinate policies and leverage investments, and
- Value communities and neighborhoods.

Each of these factors is addressed through various work program tasks.

Public Involvement and Title VI

Federal legislation requires MPOs to include provisions in the planning process to ensure the involvement of the public in the development of transportation plans and programs including the Metropolitan Transportation Plan, the short-term Transportation Improvement Program, and the annual Unified Planning Work Program. Emphasis is placed on broadening participation in transportation planning to include key stakeholders who have not traditionally been involved, including the business community, members of the public, community groups, and other governmental agencies. Effective public involvement will result in opportunities for the public to participate in the planning process.

Metropolitan Transportation Plan (MTP)

The MPO is responsible for developing a Metropolitan Transportation Plan (MTP) for a minimum of 20-year time horizon in cooperation with the State, MPO member agencies and with local transit operators. The MTP is produced through a planning process which involves the region's local governments, the North Carolina Department of Transportation (NCDOT), local jurisdictions and citizens of the region. Additionally, representatives from the local offices of the U.S. Department of Transportation (USDOT) Federal Highway Administration (FHWA) and Federal Transit Administration (FTA), North Carolina Department of Environmental Quality (NCDEQ) and the U.S. Environmental Protection Agency (US EPA) provide guidance and participate in the planning process. The Metropolitan Transportation Plan (MTP) must include the following:

- Vision, Goals, and Objectives;
- Land use impacts;
- Identification and assessment of needs;
- Identification of transportation facilities (including major roadways, transit, multimodal and intermodal facilities and intermodal connectors) that function as an integrated metropolitan transportation system;
- A discussion of types of potential environmental mitigation activities and potential areas to carry out these activities;
- A financial plan that demonstrates how the adopted transportation plan can be implemented;
- Operations and management strategies to improve the performance of existing transportation facilities to relieve vehicular congestion and maximize the safety and mobility of people and goods;
- Capital investment and other strategies to preserve the existing and projected future metropolitan transportation infrastructure and provide for multimodal capacity increases based on regional priorities and needs; and
- Proposed transportation and transit enhancement activities.

Transportation Improvement Program (TIP)

The DCHC MPO is responsible for developing a Transportation Improvement Program (TIP) for a seven-year time horizon in cooperation with the State, MPO member agencies and with local transit operators. The TIP is produced through a planning process which involves the region's local governments, the NCDOT, local jurisdictions and citizens of the metropolitan area. The TIP must include the following:

- A list of proposed federally supported projects and strategies to be implemented during TIP period;
- Proactive public involvement process;
- A financial plan that demonstrates how the TIP can be implemented; and
- Descriptions of each project in the TIP.

Transportation Management Area (TMA)

Designated TMAs, such as the DCHC MPO, based on urbanized area population over 200,000 must also address the following: Transportation plans must be based on a continuing and comprehensive transportation planning process carried out by the MPO in cooperation with the State and public transportation operators. A Congestion Management Process (CMP) must be developed and implemented that provides for effective management and operation, based on a cooperatively developed and implemented metropolitan-wide strategy

of new and existing transportation facilities, through use of travel demand reduction and operations management strategies.

Air Quality Conformity Process

Currently, the DCHC MPO is designated as an attainment area for air quality. However, the Triangle region air quality partners have decided to continue to implement activities, including air quality analysis and conformity determination on its Metropolitan Transportation Plan (MTP) and Metropolitan Transportation Improvement Program (TIP). NCDOT and TJCOG will assist the MPOs in making a conformity determination by performing a systems level conformity analysis on the highway portion of the fiscally constrained MTP. The TIP is a subset of the MIT and is, therefore, covered by the conformity analysis.

FY2019 Emphasis Areas and Special Projects Descriptions

Special emphasis projects and new initiatives for the FY2019 UPWP are described below.

Triangle Regional Model (TRM) - Major Model Enhancement

The purpose of this task is to continue to review and analyze existing travel demand and air quality models in order to determine feasible enhancements to the modeling procedures that are used in the TRM study area. DCHC MPO will continue to perform regional travel demand, and micro simulation model runs for existing and future projects as requested and needed. Upon completion of the TRM-V6, the Triangle Regional Model Service Bureau (TRM-SB) and the regional model stakeholders will commence substantial revisions and enhancements in order to better respond to the evolving needs and policies of the DCHC MPO and other model stakeholders. One of the customary first tasks will be to identify and select model enhancements for implementation based on the needs of the various partners, which include local governments, and, on the feasibility and costs of desired enhancements. Enhancements specifically discussed within the DCHC MPO include; enhancing model precision for small area studies, improving non-motorized models, increasing sensitivity to travel demand management policies, network quality checks, and improved transit ridership forecasting, incorporating tools for policy analysis and responding to policy questions, improving HOV/HOT tools and parking sensitivity enhancements. Additional technical enhancements have also been proposed relative to trip generation, destination choice and mode choice. Integrated land use and transportation modeling is addressed in a separate item below. Specific activities to develop model enhancements include; staff time preparing and evaluating technical proposals for model revision and developing the model, negotiating the scope of enhancements with regional model partners (NCDOT, GoTriangle, CAMPO), consultant assistance in preparing technical specifications and in developing the model, and research and peer contact aimed at assessing the technical merits and operational challenges of the various modeling strategies that will be under consideration. The TRM is a regional project, and it is possible that some enhancements sought by DCHC MPO will not be included in the regional model plan, such as the enhancement of the non-motorized trip. In that case, additional specific activities may include developing extensions to the regional model to meet DCHC's remaining policy needs.

Annual Continuous Travel Behavior Survey (Household Survey)

Work will continue on the tabulation and analysis of the household survey. Also, estimation of parameter using the household survey will be undertaken during this UPWP period. Due to the changing demographics of the region, the model stakeholders have decided to undertake annual (ACS style) continuous survey. This will improve the model by capturing changing travel behavior and patterns. The existing Triangle Regional Model was calibrated with Travel Behavior Survey (TBS) data collected in 2006. Since then, the region has undergone substantial development and demographic changes. While some of these changes are captured in updates to socio-economic data that is input to the model, including Census 2010, there is much more information from the 2006 survey that needs to be updated in order to prepare more accurate forecasts and also to meet the federal requirements for using the latest planning assumptions. The TBS will collect detailed information on personal and household travel patterns from

approximately 2,000-3,000 households annually across the Triangle. The sample size for the DCHC MPO planning area will be based on the population. Information about trip purposes, mode choice, travel routes, time of day when travel is undertaken, response to road congestion, average trip distances and durations, and neighborhood and work destination characteristics will likely be gathered in these surveys.

In addition, the new TBS will allow better prediction of transit and non-motorized transportation. Despite the comprehensive character of the current TBS, it under-represents persons who travel by modes other than automobile. Consequently, in order to provide sufficient high-quality data to pursue the MPO's goal of understanding and increasing use of transit and non-motorized travel, the proposed budget includes a separate transit on-board survey bus riders, and surveys of bicycle and pedestrian activity and facilities. The benefit to the DCHC MPO will be a more accurate and reliable travel demand model that represents and captures local travel behavior and travel patterns.

Community Viz

The DCHC MPO in concert with CAMPO will continue to undertake the update and enhancement of the Community Viz tool. The primary purpose of the project is to implement a partnering strategy and create a spatial data planning model framework and scenario planning using Community Viz software that will mimic development patterns and intensities and allocate future year socioeconomic data for the jurisdictions within the Triangle region. The model will be used by DCHC MPO staff to identify regional goals and community values, and explore alternatives for growth, development, and transportation investment. Results from the model will be used in developing the DCHC MPO's next socio-economic forecasts and Metropolitan Transportation Plan.

During FY2017, the DCHC MPO and CAMPO under the leadership of TJCOG joined together to update the first Community Viz0 scenario planning initiative called Connect 2045. That tool provided a platform for regional socio-economic projection and forecasting. Additionally, it provided an opportunity to explore and debate regional visions for growth, their trade-offs, and alternative development futures. Scenario planning tools, and specifically, Community Viz, will be used throughout the planning process to measure and evaluate the impacts of competing development scenarios and major investments in the regional transportation system. Results of the scenario planning initiative will be the update and refinement of socio-economic forecasts.

Data Collection and Data Management

The MPO is required by federal regulations and the 3C process to perform continuous data monitoring and maintenance. A number of transportation and traffic conditions will be continuously surveyed and compiled annually to feed into various MPO technical analyses such as modeling, Metropolitan Transportation Plan update, Congestion Management Process, project development, Title VI planning, EJ/LEP demographic profiles, TIP, project prioritization, etc. The following data collection and monitoring tasks will be conducted during this UPWP period:

- 48 hour traffic volume –hourly, bi-directional, classified and 85th percentile speed;
- Turning Movement Count during AM, Noon and PM peak periods for cars, trucks, bikes and pedestrians;
- INRIX and HERE data
- Travel time and speed survey; and
- Pedestrian and bicycle counts at mid-block and intersections (peak counts and 12-hour counts).
- Crash and safety data
- Transit APC
- Transit Performance Targets data

Transportation models, Congestion Management Programs, federally mandated performance

management/targets, and prioritization are critically dependent on comprehensive, detailed, high-quality input data. In the past, such data have been gathered through an ad-hoc, short-term work effort, and have been used to produce model output for multiple years. As the region grows toward more sophisticated models and, as NCDOT and FHWA move toward detailed data-driven processes, it becomes increasingly desirable to undertake comprehensive and systematic data collection and management for the MPO. The on-going MPO data management program is intended to link the model's input directly to existing databases. More broadly, it is proposed to integrate these external data with existing and new geographic information so that they can be overlaid easily with transportation improvement projects, thoroughfare and corridor plans, updated street centerline locations and other information that will assist policy makers and the public to envision the impact of proposed projects and policies. Specific products to be output by staff and/or consultants include; design of work flow processes and data access strategies to support routine access to relevant information, continued design and update of a centralized database for information that will be used by transportation and land use models, development of presentation tools for the data (using ArcGIS Online), and adjustment of the travel demand model so that it can use directly such detailed data.

Intelligent Transportation System - The purpose of this task is to develop, maintain and enhance regional Intelligent Transportation System (ITS) activities to improve efficiency of the transportation network, public transit, emergency response, safety and security in the Capital Region. DCHC MPO will continue to update and maintain the regional ITS architecture, and coordinate with various stakeholders to ensure that ITS technologies are deployed in manner that will allow for communication, interoperability, and compatibility amongst various regional systems and entities.

Title VI Planning - The purpose of this task is to ensure that no person will, on the grounds of race, color, national origin, income, gender, age, and disability, as provided by Title VI of the Civil Rights Act of 1964 and the Civil Rights Restoration Act of 1987 (PL 100.259), be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity. DCHC MPO will continue to monitor the Title VI program and implement Title VI Assurance.

Safety and Security Planning - The purpose of this task is to reduce the human and economic toll on the region's multi-modal transportation system due to traffic crashes through collaboration and an integrated Vision Zero approach including engineering, enforcement, education and emergency response. DCHC MPO will continue to analyze safety data and collaborate with NCDOT and regional safety stakeholders to monitor safety programs and continually revise and refine the planning process.

Land Use, Socio-Economic, Environmental - The purpose of this task is to collect, maintain and analyze regional land use, socio-economic and environmental data that will be used in regional demographic forecasting, transportation planning, land use planning, air quality planning, emergency planning, Title VI and economic development efforts. DCHC MPO will continue to participate, provide input to member jurisdictions and agencies in the development of local comprehensive plans, and provide guidance to NCDOT Project Development and NEPA on land use and zoning issues affecting project development and Merger process.

Metropolitan Transportation Plan Reappraisal - This task addresses periodic reviews, changes, and progress on the long range planning process to foster livable and sustainable communities and transportation systems in the DCHC MPO area as required by FAST Act and the previous legislations.

FY2019 UPWP Funding Sources

FY2019 UPWP funding levels as well as the descriptions of funding sources is summarized below.

Planning (PL) Section 104(f) – These funds are Federal Highway Administration (FHWA) funds for urbanized areas, administered by NCDOT. These funds require a 20% match. The PL funding apportionment to the state is distributed to the MPOs through a population-based formula. The proposed Section 104(f) funding level is based on the FAST-ACT Section 104(f) allocation. The statewide section 104(f) funds are distributed among all MPOs based on a formula. The DCHC MPO PL fund allocation for FY2019 is below.

	MPO Total
Federal PL funds (80%)	\$ 353,101
Local match (20%)	\$ 88,275
Total PL Funds	\$ 441,376

STBG-DA – These funds are the portion of the federal Surface Transportation Block Grant Program (STBG-DA) funds provided to Transportation Management Areas (TMAs) over 200,000 in population through FHWA. By agreement with the DCHC MPO and NCDOT, a portion of these funds are used for MPO transportation planning activities. STBG-DA funds proposed to be flexed in the FY2019 UPWP are shown below:

	MPO Total
Federal STBG-DA funds (80%)	\$ 1,101,313
Local match (20%)	\$ 275,328
Total STBG-DA Funds	\$ 1,376,641

FTA Funds -Two types of funds are used for transit planning purposes by the DCHC MPO; Section 5303 and Section 5307 funds administered through the Federal Transit Administration (FTA) and the NCDOT Public Transit Division.

Section 5303 funds are grant monies from FTA that provide assistance to urbanized areas for transit planning. The funds are for planning and technical studies related to urban public transportation. They are provided from the FTA through the NCDOT-PTD to the MPO transit operators (80% from FTA, 10% from NCDOT-PTD, and 10% local match).

5303	CHT	GoDurham	MPO Total
Federal (80%)	\$137,200	\$142,800	\$280,000
State (10%)	\$17,150	\$17,850	\$35,000
Local (10%)	\$17,150	\$17,850	\$35,000
Total Sect. 5303	\$171,500	\$178,500	\$350,000

Section 5307 funds can be used for planning as well as other purposes, and are distributed by formula by FTA. The GoDurham, CHT, OPT and GoTriangle are eligible to use Section 5307 funds from the FTA for assistance on a wide range of planning activities. These funds require a 20% local match, which is provided by the City of Durham, the Town of Chapel Hill, Orange County and GoTriangle.

5307	GoDurham	GoTriangle	MPO Total
Federal (80%)	\$ 236,000	\$684,000	\$ 920,000
Local (20%)	\$ 59,000	\$171,000	\$ 230,000
Total Sect. 5307	\$ 295,000	\$855,000	\$ 1,150,000

Summary of all Funding Sources

	Federal	State	Local	Total
PL/STBG-DA (FHWA)	\$ 1,454,414		\$ 363,603	\$ 1,818,017
FTA 5303	\$280,000	\$35,000	\$35,000	\$350,000
FTA 5307	\$ 920,000		\$ 230,000	\$ 1,150,000
Total	\$ 2,654,414	\$ 35,000	\$ 628,603	\$ 3,318,017

Summary of Federal Funding (80%) by Agency

Agency	FHWA	FTA Transit Planning		Total
	Planning	5303	5307	
Lead Planning Agency	\$ 1,153,101			\$ 1,153,101
Carrboro	\$ 22,911			\$ 22,911
Chapel Hill	\$ 79,068	\$137,200		\$ 216,268
Durham City	\$ 91,291			\$ 91,291
Durham County	\$ 43,042			\$ 43,042
TJCOG	\$ 65,000			\$ 65,000
GoDurham		\$142,800	\$ 236,000	\$ 378,800
GoTriangle			\$684,000	\$684,000
Total	\$ 1,454,414	\$280,000	\$ 920,000	\$ 2,654,414

LPA Local Match Cost Sharing

To receive the aforementioned federal funds through FHWA, a local match of twenty percent (20%) of the total project cost must be provided. The MPO member agencies contribute to the Lead Planning Agency 20% local match. Each MPO's member agencies' proportionate share of the local match is determined on an annual basis during the development of the UPWP. The following table displays the MPO's member agencies' proportionate share of the local match for FY2019. The local match shares for member jurisdictions referenced below were determined using population and number of data collection locations/segments. GoTriangle is 7.5% of the total MPO match required for local share of federal funds minus ITRE and data collection expenses and is based on average annual percentage of funds received including 5307 and STBG-DA.

Agency	Total FY2019
Durham City	\$154,357
Durham County	\$26,559
Chapel Hill	\$38,691
Carrboro	\$13,238
Hillsborough	\$4,115
Orange County	\$23,121
Chatham County	\$9,573
GoTriangle	\$18,621
Total	\$288,275

Certification of MPO Transportation Planning Process

As part of the annual UPWP adoption process, the MPO is required to certify that it adheres to a transportation planning process that is continuous, cooperative, and comprehensive (ie. the 3-C planning process). The certification resolution is included as part of this work program.

Summary of FY2017 and First Quarter FY2018 UPWP Accomplishments

The main emphases of the FY2017 and first quarter of FY2018 UPWP were the development of the Comprehensive Transportation Plan, model enhancement, calibration and validation of the Triangle Regional Model, the update of the MPO GIS enterprise, Congestion Management Process, development of an interactive Mobility Report Card, MPO data collection and analysis, update of the MPO Data Management System, evaluation of performance indicators, update of Community Viz Land-use Scenario, State and Regional Coordination, collaboration on the regional transit activities, and Orange and Durham county transit initiatives. The MPO continued to fulfill State and Federal transportation mandates including the 3-C transportation process, UPWP planning, SPOT4/STI prioritization, Title VI/EJ/LEP, visualization, administration, management and oversight of grants, etc. The MPO made significant progress in these areas. Major milestones and accomplishments are summarized as follows:

Coordinated Public Transit Human Services - The DCHC MPO continued to address the Coordinated Public Transit Human Services Transportation Plan as required by FAST Act and foster coordination and communication among all transit providers in the region. Staff continued to meet and coordinate with the human services agencies that provide or have clients that need transportation services in the MPO, collect information on transportation services, and maintain the metropolitan transportation coordination plan.

Routine MPO Planning Progress and UPWP - The MPO continued to address periodic reviews, changes, and progress on the short-range planning process and changes to the Unified Planning Work Program (UPWP) as required by FAST Act and previous legislation. DCHC MPO will continue to conduct short range transportation and transportation planning activities, and coordinate with necessary local, regional and state agencies to conduct and track transportation projects in the DCHC MPO.

Non-Motorized Planning and Complete Streets – DCHC MPO continued to develop, support and promote plans and projects that increase and improve cycling and walking facilities, improve safety and security of vulnerable roadway users, and create alternative transportation mode choices for all travelers. DCHC MPO continued to prepare and evaluate transportation plans so that bicycle and pedestrian facilities are integrated wherever practicable, into the network.

Maintain Clean Air (attainment) – DCHC MPO continued to protect and enhance the environment, and promote consistency between transportation improvements, and state and local planned growth and economic development patterns. DCHC MPO continued to monitor the transportation planning activities and ensure that such activities do not deteriorate the air quality in the region.

Task A7 (Intelligent Transportation System) - The purpose of this task is to develop, maintain and enhance regional Intelligent Transportation System (ITS) activities to improve efficiency of the transportation network, public transit, emergency response, and safety and security in the region. DCHC MPO continued to update and maintain the regional ITS architecture, and coordinate with stakeholders to ensure that ITS technologies are deployed in a manner to allow communication, interoperability, and compatibility amongst various regional systems and entities.

Title VI Planning - The MPO continued to monitor and implement the MPO Title VI Assurance which ensures that no person will, on the grounds of race, color, national origin, income, gender, age, and disability, as provided by Title VI of the Civil Rights Act of 1964 and the Civil Rights Restoration Act of 1987 (PL 100.259), be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity.

Americans with Disabilities Act (ADA) Transition Plan & Self-Assessment - The MPO continued to monitor and implement the MPO's ADA Transition Plan and Self-Assessment

Model Enhancement – DCHC MPO continued to review and analyze existing travel demand and air quality models in order to determine feasible enhancements to the modeling procedures that are used in the TRM study area. DCHC MPO continued to perform air quality, regional travel demand, and micro simulation model runs for existing and future projects as requested and needed.

Safety and Security Planning - The MPO, through its planning activities, continued to strive to reduce the human and economic toll on the region's multi-modal transportation system due to traffic crashes through widespread collaboration and an integrated Vision Zero and Traffic Incident Management (TIM) program with an Engineering, Enforcement, Education and Emergency Response approach. DCHC MPO continued to analyze safety data and collaborate with regional safety stakeholders to keep them engaged in the routine monitoring of safety programs, and the revision and refinement of the planning process.

Development of Comprehensive Transportation Planning and Programs – DCHC MPO continued to evaluate, support, analyze and implement multi-modal transportation plans and programs that foster accessibility, mobility, safety and other FAST Act planning factors. DCHC MPO continued

to coordinate with local governments and various transportation stakeholders to develop and promote new programs that will foster better multi-modal transportation options.

MPO Data Development and Maintenance - The MPO continued to collect, maintain, and analyze regional information on topics including, but not limited to, census, land use, and related data that is needed for regional demographic forecasting, transportation and land use planning, air quality planning, TRM estimation, calibration and validation, CMP, MRC, transit planning, bike/pedestrian planning, emergency planning, Title VI, and economic development efforts.

Land Use, Socio-Economic, Environmental – DCHC MPO continued to collect, maintain and analyze regional land use, socio-economic and environmental data that will be used in regional demographic forecasting, transportation and land use planning, air quality planning, emergency planning, Title VI, and economic development efforts. DCHC MPO continued to participate, and provide input to NCDOT, in the development of local comprehensive plans, and provide guidance to NEPA/Merger/projected development on land use and zoning issues.

Transportation Plan Reappraisal – DCHC MPO continued to address periodic reviews, changes, and progress on the long range planning process to foster livable and sustainable communities and transportation systems in the planning area as required by FAST Act and the previous legislations.

Technical Assistance – DCHC MPO continued to perform service requests as well as utilize the expertise and knowledge of the staff in providing technical support services to local governments and interested citizens on transportation planning and other requests that support the planning factors in FAST Act and the previous legislation. This includes coordinating with public transit providers and local units of government in the region to create a regionally seamless transit system that improves accessibility and mobility for all citizens.

Travel Demand Management – Triangle J Council of Governments (TJCOG) on behalf of DCHC MPO continued to implement Travel Demand Management (TDM) strategies to influence individual travel behavior and provide expanded options to reduce the actual demand, or number of vehicles, placed on transportation facilities, and incorporate practices that focus on managing the demand side of the transportation equation rather than increasing supply by widening or building new roads. Progress continued to be made on reduction of peak VMT around the Research Triangle Park employee commute options, and Best Employer for Commute programs.

Regional SHSP Implementation – DCHC MPO continued to work to create a Regional Transportation Safety Coalition with the aim of reducing crashes on major roadways through widespread collaboration and an integrated approach including engineering, education, enforcement and emergency services. DCHC MPO continued to coordinate with the stakeholders and implement action items in the TIMS Plan to achieve the goal of reducing the number of fatalities within the MPO by half by the year 2045, and ultimately the vision of Destination Zero Deaths.

The other accomplishments for the FY2017 and first quarter FY2018 UPWP are summarized as follows:

1. The MPO Administration program element focuses on all aspects of the MPO's personnel management, governing board support and meeting coordination, budgeting, policy development and review, annual work program development and reporting, and otherwise meeting all state and federal requirements for planning program administration. Most tasks in this element are routine and ongoing in nature including Comprehensive Transportation plan (CTP), Metropolitan Transportation Plan (MTP), SPOT Prioritization, data collection

- and analysis, development and maintenance of spatial GIS portals, Incident Management plan, update of ADA Transition Plan, enhancement and update of the regional model, development of Counties Transit Plans and LRT, etc.
2. Data management activity included collecting, analyzing, maintaining and reporting activities necessary to support the transportation planning process and work program. Various data is captured, processed and subsequently used to identify transportation issues, propose solutions, and monitor activity.
 3. Trends. All data maintained by the MPO is accessible to member agencies and the public. Certain tasks are associated with technical tools and functions necessary to support analytical work and forecasting, including computer hardware and software and licenses for travel demand modeling and traffic operations microsimulation, and for electronic hardware used in various types of traffic counting.
 4. Development of the DCHC-MPO Comprehensive Transportation Plan (CTP): The LPA and NCDOT Transportation Planning Branch (TPB) worked cooperatively in the development of the CTP multi-modal maps and tables. CTP is mandated by NC General Statute. It differs from the federally mandated Metropolitan Transportation Plan (MTP) in that it is not fiscally constrained and does not have a horizon year. CTP has been completed and mutually adopted by the MPO Board and the Board of Transportation.
 5. 2045 Metropolitan Transportation Plan (MTP): significant progress was made in the development of the 2045 MTP. The MPO finalized the Goals and Objectives. Progress was made in the development of the MTP performance measures and targets. Other 2045 MTP accomplishments include: development of SE control and guide totals, refinements and enhancements of CommunityViz tool, development of preliminary scenarios. etc.
 6. MPO Congestion Management Process (CMP): The MPO continued work on the update, analyses and mapping associated with the development of the federally required CMP. Tasks accomplished include summarization and analysis of data, measurement of multi-modal transportation system performance, and implementation of CMP mapping in an interactive GIS.
 7. MPO Mobility Report Card (MRC): Staff continued to measure and monitor multi-modal transportation system performance. Other accomplishments included a state-of-the-system report that focuses on measures of system performance for which data collected on an annual basis is used to index overall performance of the MPO transportation system from year to year. Data reported included, arterial LOS, intersection LOS, transit services, bicycle facilities, sidewalks, safety, etc.
 8. MPO ADA Transition Plan: DCHC MPO conducted an ADA roundtable and stakeholder outreach. Continued to oversee the update of the DCHC MPO ADA Transition Plan, specifically; update of 508 compliance, preparation of ADA roundtable, assessment of MPO ADA programs, etc.
 9. Regional Freight Plan: Staff continued to serve as the project manager for the development of the Triangle Regional Freight Plan. Work tasks accomplished included but are not limited to:
 - Public outreach and stakeholder engagement
 - Data collection, inventory and assessment

- Development of data needs
 - Establishment of the Freight Stakeholder Advisory Committee
 - Development of freight goals, objectives, performance measures and targets
 - Analysis of existing conditions and trends
 - Analysis of freight land-use issues
 - Freight demand and supply chain analysis
 - Generation of designated freight works
10. **Public Involvement Process:** Continued to provide the public with complete information, timely notice, and full access to key decisions and opportunities for early and continuing involvement in the 3C process. Also, continued to assess the effectiveness of the DCHC MPO Public Involvement Process and to develop and enhance the process of regional involvement supporting the objectives of the DCHC MPO Public Involvement Policy (PIP) and federal regulations (such as FAST-Act). Staff continued to explore, and apply new and innovative approaches to improve MPO public participation levels and opportunities, especially for plans and programs using social media; Facebook and Twitter. Continued to oversee the update and the maintenance of the MPO website, including update and enhancement of portals, update of CivicaSoft website system application, and update of content management systems. Continued to provide management support for the MPO visualization such as reviewing current AGOL, land-use 3-D, Urban-canvas, MS2 portals and webservers, and suggested updates and enhancements.
 11. **Safety Analysis:** The MPO completed analyses related to bike and pedestrian safety, transit safety, and vehicular safety. Other safety related accomplishments included participating in North Carolina safety education initiatives and regional bike and pedestrian safety programs.
 12. **Environmental Justice/Title VI:** The MPO continued to update and implement EJ and Title VI program, including update of demographic profiles and incorporation of FHWA comments.
 13. **Metropolitan Transportation Improvement Program (MTIP):** The MPO continued to work on TIP-related activities such as prioritization, review of the MPO methodology, Local Supplement of the STIP, and the development of the draft Metropolitan Transportation Program (MTIP).
 14. **Amendments and Administrative Modifications to the MTIP:** The MPO processed several amendments and administrative modifications to the 2016-25 MTIP and forwarded to NCDOT to be included in the STIP for BOT approval.
 15. **Triangle Regional Model (TRM) Update and Enhancement:** The MPO continued to participate in the update and enhancement of the TRM at ITRE. Work tasks accomplished included, completion of generation, destination choice and mode choice models, calibration and the validation of 2010 Estimation Year TRM-V6. The MPO is one of the funding partners of the modeling service bureau and continued to provide .5 FTE to ITRE Model Service Bureau.
 16. **Bicycle lane restriping.** The MPO continued to work with NCDOT Division 5 and Division 7 regarding priorities and plans for restriping roadways scheduled for resurfacing by NCDOT.
 17. **Other Project Development Planning and NEPA:** The MPO continued to participate in project development planning and NEPA for several on-going NCDOT projects within the MPO

- including; I-40 Managed Lanes Feasibility Study, US 15-501 Corridor Study, US 15-1501 Feasibility Study, Infinity-Latta intersection, NC54 widening project planning, I-40 widening (US15-501 to I-85), several bridge replacement projects, resurfacing projects, etc.
18. Oversight, Monitoring and Administration of Transit Grants: The MPO continued to process invoices for sub-recipients reimbursements as well continued to administer and monitor transit grants.
 19. Service Requests: Staff performed numerous services requests from the public and member agencies.
 20. Management and Operations: Staff continued routine tasks that encompass the administration and support of the 3-C transportation planning process as mandated by federal regulations, Tasks have been divided into the following sub- tasks including, but not limited to:
 - Provided liaisons between DCHC MPO member agencies, transit providers, GoTriangle, CAMPO, NCDOT, NCDEQ, TJCOG, RDU and other organizations at the local, regional, state, and federal levels on transportation-related matters, issues and actions.
 - Provided technical assistance to the MPO Board, member agencies, stakeholders and citizens and other member jurisdictions policy bodies.
 - Participated in joint regional technical meetings as a means to continually improve the quality and operation of the transportation planning process and decision making in the region.
 - Reviewed and commented on federal and state transportation-related plans, programs, regulations and guidelines, including review of Notice of Proposed Rule Making (NPRM), federal register and literature review of new transportation planning procedures.
 - Provided assistance to the MPO Board and Technical Committee with meeting preparation, development of agenda and minutes, follow-up to directives to staff, and support of the agenda management system.
 - Updated and provided support for MPO planning documents as required.
 - Administration and oversight of contracts and fiscal management.
 21. Assisted with the compliance of federal and state regulations and mandates.
 22. Performed various supervisory duties.

City of Durham Accomplishments

The City of Durham supported all areas of MPO work through participation in the CTP, MTP, and TIP processes as well as special studies like the NC 98 Corridor Study and FTA TOD Planning Grant. There are many funded TIP projects in development in the City of Durham that City staff have been coordinating extensively with NCDOT and the MP on. The City also managed the successful completion and adoption of the Bike+Walk Implementation Plan which sets priorities for pedestrian and cycling infrastructure needs in the City.

Durham County Accomplishments

County staff developed updated land use data based on existing zoning, adopted plans, and aspirational scenarios to be incorporated into the development of the Triangle Regional Model. County staff also began development of station area plans for the Patterson Place and Erwin Road Compact Neighborhoods for land use, transportation, and critical infrastructure. Durham County was also an active participant in the NC 98 corridor study and the GoTriangle TOD planning grant.

Orange County Accomplishments

Orange County played an active role in the State's Transportation Improvement Program (STIP) for FY 2020 – 2029 and DCHC MPO's 2045 Metropolitan Transportation Plan, working hand-in-hand with MPO staff, NCDOT, and local stakeholders. This involved continuing work on funded and programmed projects while identifying new projects and shepherding them through the SPOT 5.0 and different planning processes. This fiscal year, Orange County also conducted population and employment projections for the MPO's travel demand model and helped shape the Guide Totals for the County, a task the County will continue doing for all models in the region. Planning staff also coordinated, reviewed and provided numerous presentations to keep key local and regional stakeholders keeping them aware of new developments in Orange County, SPOT process, and Strategic Transportation Investment Law.

The Management and Operations task involved much of the administrative and reporting work that Orange County is required to provide to the MPO. This includes de-obligating STBG-DA funds and flexing them to 5307 by Orange Public Transportation (OPT) in coordination with MPO for its transit purposes. Orange County is actively involved in regional transportation planning by regularly attending all MPO TC and Board, Triangle J Council of Government joint Technical Team meetings, Triangle Area Rural Planning Organization Rural Technical Advisory Committee (RTAC) & Rural Technical Coordinating Committee (RTCC) meetings and keeps local Orange Unified Transportation Board and County Commissioners informed and involved in the growing transportation network.

Town of Carrboro Accomplishments

Much of the Town of Carrboro's planning work during FY2017 focused on continuing and finishing efforts started during the previous fiscal year. For example, staff continued to meet with neighbors to refine designs for residential traffic calming proposals. Town staff worked with the parking consultant hired during FY2016 to present the finding and recommendations from the downtown parking study at a public hearing and to adopt document as the Town's Parking Plan.

Town staff worked with MPO and NCDOT staff to review the different components of the CTP and MTP and to facilitate presentations for elected officials. Staff also participated in the development of the Orange County and Durham County Transit Plans with particular efforts toward the development of the list of capital projects for the Orange County Transit Plan. Carrboro continues to participate in the implementation of the transit plans as well as the development of the Chapel Hill Transit North-South Corridor BRT project.

Carrboro staff was also heavily involved in the prioritization process for SPOT 5.0, working with MPO and NCDOT staff to identify and define new projects. The Town continues to manage local TIP projects that have received funding, including the Homestead-CHHS MUP, and the Morgan Creek Greenway, Rogers Road Sidewalk, Bike Loop Detector project, and Jones Creek Greenway which continue to move forward. Town staff continued to attend bi-weekly MPO meetings, subcommittee meetings, provide support to Town advisory boards and communicate with elected officials about upcoming transportation-related matters.

Town of Chapel Hill Accomplishments

The Town of Chapel Hill conducted a number of transportation planning and project management activities under the FY2017 Unified Planning Work Program. Town staff supported the Durham-Chapel Hill-Carrboro MPO in region-wide planning efforts and worked on Chapel Hill-specific projects that will support regional transportation planning activities and goals.

Town Staff continued its work on the 2045 Metropolitan Transportation Plan including attending regular sub-committee meetings, reviewing Community Viz and TRM model runs, presenting information to elected officials and advisory boards, and providing staff support during public engagement events. The 2040 Comprehensive Transportation plan was completed and adopted by the DCHC MPO in FY 17. Town Staff contributed significant time reviewing proposed projects and providing information to elected officials and advisory boards during the public comment period.

The Town of Chapel Hill continued its work with Stewart Engineering in the development of the Mobility and Connectivity Plan. This multimodal transportation plan provides lists of bicycle and pedestrian projects that will enhance connectivity and improve access to transit. The project includes an ADA Transition Plan for the Town, which compliments the regional ADA Plan and provides Town staff with a list of projects and programs aimed at improving ADA compliance.

Town staff identified highway, bike/ped, and transit projects for the SPOT 5.0 prioritization process. Town staff worked closely with the DCHC MPO and other jurisdictions to develop the final list of project submissions, and will continue to provide support as the process moves forward. Town staff also continued to manage local TIP projects: the Estes Drive Bike-Ped Improvements project is entering Right-of-Way acquisition and the 15-501 Sidepath, the Homestead Road sidewalk and multiuse path, and the Variable Message Signs are in the design phase. Town staff has also continued work with NCDOT on NC 54 and US 15-501 highway projects.

Town staff continued to attend bi-weekly MPO meetings and frequent sub-committee meetings, provide support to Town advisory boards, communicate with elected officials about transportation-related issues, and attend trainings and conferences.

Town of Hillsborough Accomplishments

The town used funds to hire a consulting firm to collect traffic volume counts on local streets not captured by NCDOT to inform local planning and ensure MPO plans include the necessary collector and arterial designations. We were able to identify 42 locations and completed counts consistent with MPO count deadlines. The count information has been shared with the MPO for integration into the regional model. This data will help inform local development review to the extent the Unified Development Ordinance refers to street classification. It will also inform the region's CMP and TRM model.

The town updated mapping for socio-economic data, development proposals, and data layers needed for the MTP, CTP, and TRM which supported mapping activities for the MTP and generate maps as needed for other MPO and town transportation planning tasks. The town reviewed and edited place type and development status layers for Community Viz at the parcel level, reviewed maps made for the MTP, CTP, and other MPO-related activities, and provided data layers or maps requested by the LPA.

The town actively participated in the administrative tasks necessary to maintain the 3C planning process will be completed, including Technical committee meetings, subcommittee meetings, support of the elected official board, and UPWP filings.

Development Schedule

The proposed development schedule for this UPWP is below. The schedule provides for the coordination of the UPWP development with the local government budget process and NCDOT deadlines.

Dates	DCHC MPO Activity Description
October -December 2017	Development of draft FY2019 UPWP and coordination with the Oversight Committee and local agencies.
November 3, 2017	Deadline for funding request and supplemental documents to be submitted to MPO by member agencies.
December 20, 2017	TC reviews draft FY2019 UPWP and recommends Board release for public comment.
January 10, 2018	MPO Board reviews draft of FY2019 UPWP and releases draft for public comment.
January 24, 2018	TC receives draft of FY2019 UPWP and recommends Board hold public hearing and approve draft at February Board meeting.
January 31, 2018	Draft FY2019 UPWP submitted to NCDOT/PTD
February 14, 2018	MPO Board holds public hearing and approves draft FY2019 UPWP including approval of self-certification process and local match.
April 2, 2018	Deadline for final FY2019 UPWP to be submitted to NCDOT and FHWA for approval. NCDOT/PTD will submit UPWP to FTA for approval.

MPO Funding Table - Distribution by Agency

Receiving Agency	STBGP		Section 104(f)		Section 5303			Section 5307			Funding Summary			
	Sec. 133(b)(3)(7)		PL		Highway/Transit			Transit			Local	NCDOT	Federal	Total
	Local	FHWA	Local	FHWA	Local	NCDOT	FTA	Local	NCDOT	FTA				
	20%	80%	20%	80%	10%	10%	80%	20%	0%	80%				
LPA	\$200,000	\$800,000	\$88,275	\$353,101	\$0	\$0	\$0	\$0	\$0	\$0	\$288,275	\$0	\$1,153,101	\$1,441,376
Carrboro	\$5,728	\$22,911	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,728	\$0	\$22,911	\$28,639
Chapel Hill/CHT	\$19,767	\$79,068	\$0	\$0	\$17,150	\$17,150	\$137,200	\$0	\$0	\$0	\$36,917	\$17,150	\$216,268	\$270,335
Chatham County	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Durham/GoDurham	\$22,823	\$91,291	\$0	\$0	\$17,850	\$17,850	\$142,800	\$59,000	\$0	\$236,000	\$99,673	\$17,850	\$470,091	\$587,614
Durham County	\$10,761	\$43,042	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,761	\$0	\$43,042	\$53,803
Hillsborough	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Orange County	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TJCOG	\$16,250	\$65,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,250	\$0	\$65,000	\$81,250
GoTriangle	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$171,000	\$0	\$684,000	\$171,000	\$0	\$684,000	\$855,000
NCDOT	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Totals	\$275,328	\$1,101,313	\$88,275	\$353,101	\$35,000	\$35,000	\$280,000	\$230,000	\$0	\$920,000	\$628,603	\$35,000	\$2,654,414	\$3,318,017

MPO Wide - Detail Funding Tables - All Funding Sources

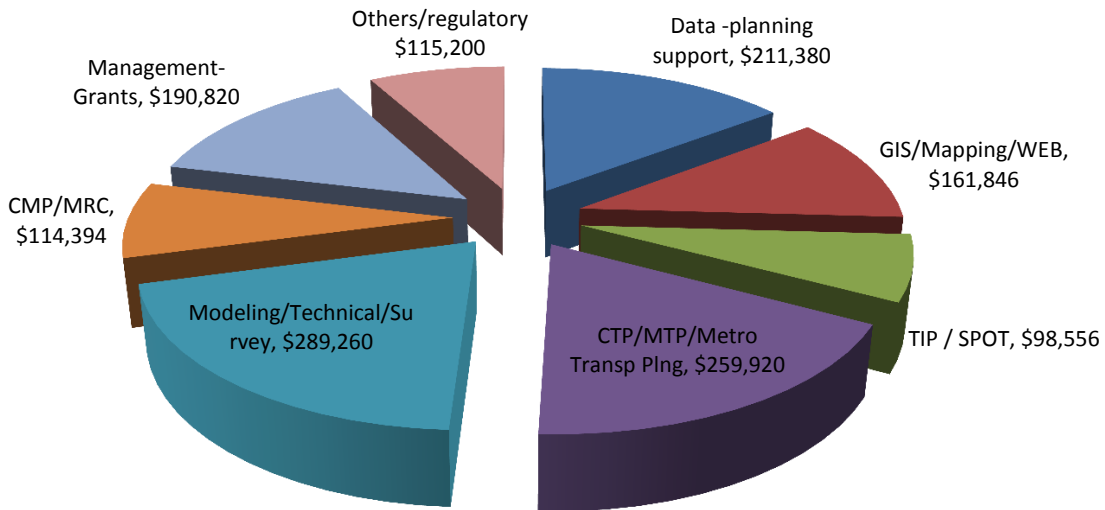
	Task Description	STBGP 133(b)(3)(7)		Sec. 104(f) PL		Section 5303 Highway/Transit			Section 5307 Transit			Task Funding Summary			
		Local 20%	FHWA 80%	Local 20%	FHWA 80%	Local 10%	NCDOT 10%	FTA 80%	Local 20%	NCDOT 0	FTA 80%	Local	NCDOT	Federal	Total
II-A	Surveillance of Change														
	1 Traffic Volume Counts	6,878	27,514	1,000	4,000	0	0	0	0	0	0	7,878	-	31,514	39,392
	2 Vehicle Miles of Travel	800	3,200	400	1,600	0	0	0	0	0	0	1,200	-	4,800	6,000
	3 Street System Changes	1,169	4,676	1,120	4,480	0	0	0	0	0	0	2,289	-	9,156	11,445
	4 Traffic Accidents	4,776	19,104	1,080	4,320	0	0	0	0	0	0	5,856	-	23,424	29,280
	5 Transit System Data	1,600	6,400	1,200	4,800	8,946	8,946	71,568	10,556	0	42,224	22,302	8,946	124,992	156,240
	6 Dwelling Unit, Pop. & Emp. Change	7,335	29,340	5,000	20,000	0	0	0	0	0	0	12,335	-	49,340	61,675
	7 Air Travel	400	1,600	100	400	0	0	0	0	0	0	500	-	2,000	2,500
	8 Vehicle Occupancy Rates	0	0	0	0	0	0	0	0	0	0	-	-	-	-
	9 Travel Time Studies	2,460	9,840	1,800	7,200	0	0	0	0	0	0	4,260	-	17,040	21,300
	10 Mapping	18,241	72,964	4,800	19,200	3,610	3,610	28,880	0	0	0	26,651	3,610	121,044	151,305
	11 Central Area Parking Inventory	2,404	9,616	400	1,600	0	0	0	0	0	0	2,804	-	11,216	14,020
	12 Bike & Ped. Facilities Inventory	1,635	6,542	1,000	4,000	952	952	7,616	0	0	0	3,587	952	18,158	22,697
	13 Bike & Ped. Counts	3,120	12,482	1,000	4,000	656	656	5,248	0	0	0	4,776	656	21,730	27,162
II-B	Long Range Transp. Plan (MTP)														
	1 Collection of Base Year Data	3,740	14,960	0	0	0	0	0	0	0	0	3,740	-	14,960	18,700
	2 Collection of Network Data	3,900	15,600	800	3,200	0	0	0	0	0	0	4,700	-	18,800	23,500
	3 Travel Model Updates	38,080	152,320	4,072	16,288	0	0	0	0	0	0	42,152	-	168,608	210,760
	4 Travel Surveys	4,200	16,800	3,060	12,240	0	0	0	0	0	0	7,260	-	29,040	36,300
	5 Forecast of Data to Horizon year	2,526	10,104	240	960	0	0	0	0	0	0	2,766	-	11,064	13,830
	6 Community Goals & Objectives	0	0	1,330	5,320	0	0	0	0	0	0	1,330	-	5,320	6,650
	7 Forecast of Future Travel Patterns	520	2,080	1,100	4,400	0	0	0	0	0	0	1,620	-	6,480	8,100
	8 Capacity Deficiency Analysis	5,360	21,440	2,400	9,600	0	0	0	0	0	0	7,760	-	31,040	38,800
	9 Highway Element of th MTP	7,406	29,625	3,800	15,200	0	0	0	0	0	0	11,206	-	44,825	56,031
	10 Transit Element of the MTP	12,277	49,108	3,800	15,200	1,278	1,278	10,224	966	0	3,864	18,321	1,278	78,396	97,994
	11 Bicycle & Ped. Element of the MTP	8,941	35,765	2,878	11,512	0	0	0	0	0	0	11,819	-	47,277	59,096
	12 Airport/Air Travel Element of MTP	1,120	4,480	200	800	0	0	0	0	0	0	1,320	-	5,280	6,600
	13 Collector Street Element of MTP	1,914	7,656	600	2,400	0	0	0	0	0	0	2,514	-	10,056	12,570
	14 Rail, Water or other mode of MTP	1,500	6,000	0	0	0	0	0	0	0	0	1,500	-	6,000	7,500
	15 Freight Movement/Mobility Planning	3,540	14,160	200	800	0	0	0	0	0	0	3,740	-	14,960	18,700
	16 Financial Planning	2,103	8,411	480	1,920	979	979	7,832	18,728	0	74,912	22,290	979	93,075	116,344
	17 Congestion Management Strategies	18,935	75,742	1,139	4,555	620	620	4,960	0	0	0	20,694	620	85,257	106,571
	18 Air Qual. Planning/Conformity Anal.	1,360	5,440	1,600	6,400	0	0	0	0	0	0	2,960	-	11,840	14,800
II-C	Short Range Transit Planning														
	Short Range Transit Planning	355	1,418	0	0	3,690	3,690	29,520	20,116	0	80,464	24,161	3,690	111,402	139,253
III-A	Planning Work Program														
	Planning Work Program	8,834	35,335	4,006	16,024	860	860	6,880	0	0	0	13,700	860	58,239	72,799
III-B	Transp. Improvement Plan														
	TIP	16,375	65,498	5,661	22,645	3,002	3,002	24,016	1,938	0	7,752	26,976	3,002	119,911	149,889
III-C	Cvl Rgts. Cmp./Otr .Reg. Reqs.														
	1 Title VI	2,000	8,000	1,000	4,000	326	326	2,608	700	0	2,800	4,026	326	17,408	21,760
	2 Environmental Justice	1,800	7,200	1,640	6,560	0	0	0	0	0	0	3,440	-	13,760	17,200
	3 Minority Business Enterprise	0	0	400	1,600	0	0	0	0	0	0	400	-	1,600	2,000
	4 Planning for the Elderly & Disabled	400	1,600	400	1,600	240	240	1,920	0	0	0	1,040	240	5,120	6,400
	5 Safety/Drug Control Planning	2,800	11,200	1,600	6,400	0	0	0	0	0	0	4,400	-	17,600	22,000
	6 Public Involvement	10,301	41,205	3,769	15,077	814	814	6,512	1,874	0	7,496	16,758	814	70,289	87,862
	7 Private Sector Participation	0	0	0	0	0	0	0	0	0	0	-	-	-	-
		0	0	0	0	0	0	0	0	0	0	-	-	-	-
III-D	Incidental Plng./Project Dev.														
	1 Transportation Enhancement Plng.	0	0	0	0	0	0	0	0	0	0	-	-	-	-
	2 Enviro. Analysis & Pre-TIP Plng.	9,876	39,503	2,600	10,400	336	336	2,688	0	0	0	12,812	336	52,591	65,739
	3 Special Studies	11,461	45,843	4,600	18,400	620	620	4,960	171,000	0	684,000	187,681	620	753,203	941,504
	4 Regional or Statewide Planning	23,205	92,820	3,600	14,400	1,240	1,240	9,920	0	0	0	28,045	1,240	117,140	146,425
III-E	Management & Operations														
	1 Management & Operations	19,681	78,725	12,400	49,600	6,831	6,831	54,648	4,122	0	16,488	43,034	6,831	199,461	249,326
	Totals	\$275,328	\$1,101,313	\$88,275	\$353,101	\$35,000	\$35,000	\$280,000	\$230,000	\$0	\$920,000	\$628,603	\$35,000	\$2,654,414	\$3,318,017

LPA

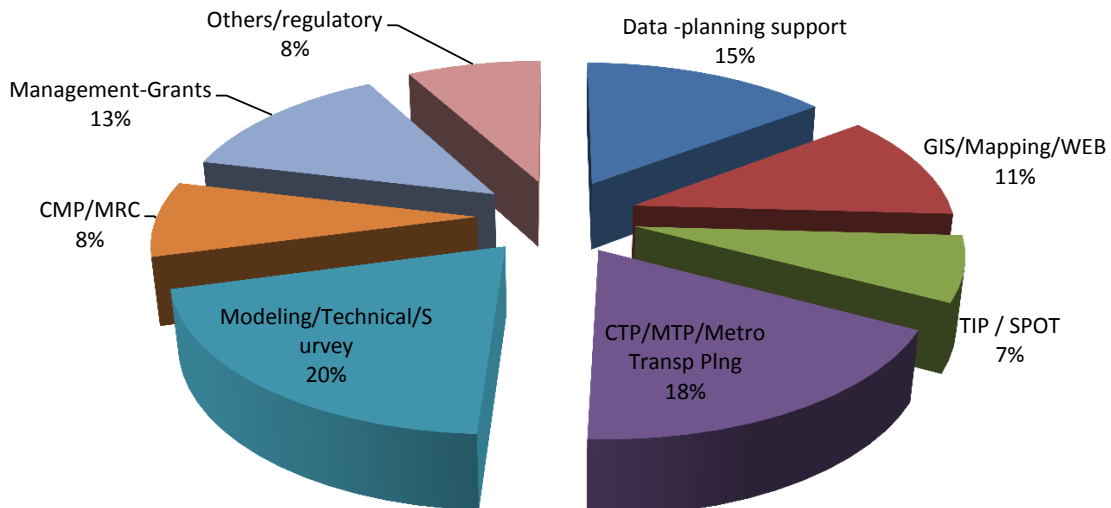
	Task Description	STBGP 133(b)(3)(7)		Sec. 104(f) PL		Section 5303 Highway/Transit			Section 5307 Transit			Task Funding Summary				
		Local 20%	FHWA 80%	Local 20%	FHWA 80%	Local 10%	NCDOT 10%	FTA 80%	Local 10%	NCDOT 10%	FTA 80%	Local	NCDOT	Federal	Total	
II A	Surveillance of Change															
	1 Traffic Volume Counts	\$6,000	\$24,000	\$1,000	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$7,000	\$0	\$28,000	\$35,000	
	2 Vehicle Miles of Travel	\$800	\$3,200	\$400	\$1,600	\$0	\$0	\$0	\$0	\$0	\$0	\$1,200	\$0	\$4,800	\$6,000	
	3 Street System Changes	\$1,000	\$4,000	\$1,120	\$4,480	\$0	\$0	\$0	\$0	\$0	\$0	\$2,120	\$0	\$8,480	\$10,600	
	4 Traffic Accidents	\$4,776	\$19,104	\$1,080	\$4,320	\$0	\$0	\$0	\$0	\$0	\$0	\$5,856	\$0	\$23,424	\$29,280	
	5 Transit System Data	\$1,600	\$6,400	\$1,200	\$4,800	\$0	\$0	\$0	\$0	\$0	\$0	\$2,800	\$0	\$11,200	\$14,000	
	6 Dwelling Unit, Pop. & Emp. Change	\$7,000	\$28,000	\$5,000	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0	\$12,000	\$0	\$48,000	\$60,000	
	7 Air Travel	\$400	\$1,600	\$100	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$500	\$0	\$2,000	\$2,500	
	8 Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	9 Travel Time Studies	\$2,460	\$9,840	\$1,800	\$7,200	\$0	\$0	\$0	\$0	\$0	\$0	\$4,260	\$0	\$17,040	\$21,300	
	10 Mapping	\$15,000	\$60,000	\$4,800	\$19,200	\$0	\$0	\$0	\$0	\$0	\$0	\$19,800	\$0	\$79,200	\$99,000	
	11 Central Area Parking Inventory	\$1,800	\$7,200	\$400	\$1,600	\$0	\$0	\$0	\$0	\$0	\$0	\$2,200	\$0	\$8,800	\$11,000	
	12 Bike & Ped. Facilities Inventory	\$400	\$1,600	\$1,000	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,400	\$0	\$5,600	\$7,000	
	13 Bike & Ped. Counts	\$1,940	\$7,760	\$1,000	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$2,940	\$0	\$11,760	\$14,700	
		\$0	\$0	\$0	\$0											
II B	Long Range Transp. Plan (MTP)	\$0	\$0	\$0	\$0											
	1 Collection of Base Year Data	\$3,740	\$14,960	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,740	\$0	\$14,960	\$18,700	
	2 Collection of Network Data	\$3,900	\$15,600	\$800	\$3,200	\$0	\$0	\$0	\$0	\$0	\$0	\$4,700	\$0	\$18,800	\$23,500	
	3 Travel Model Updates	\$38,080	\$152,320	\$4,072	\$16,288	\$0	\$0	\$0	\$0	\$0	\$0	\$42,152	\$0	\$168,608	\$210,760	
	4 Travel Surveys	\$4,200	\$16,800	\$3,060	\$12,240	\$0	\$0	\$0	\$0	\$0	\$0	\$7,260	\$0	\$29,040	\$36,300	
	5 Forecast of Data to Horizon year	\$526	\$2,104	\$240	\$960	\$0	\$0	\$0	\$0	\$0	\$0	\$766	\$0	\$3,064	\$3,830	
	6 Community Goals & Objectives	\$0	\$0	\$1,330	\$5,320	\$0	\$0	\$0	\$0	\$0	\$0	\$1,330	\$0	\$5,320	\$6,650	
	7 Forecast of Future Travel Patterns	\$520	\$2,080	\$1,100	\$4,400	\$0	\$0	\$0	\$0	\$0	\$0	\$1,620	\$0	\$6,480	\$8,100	
	8 Capacity Deficiency Analysis	\$5,360	\$21,440	\$2,400	\$9,600	\$0	\$0	\$0	\$0	\$0	\$0	\$7,760	\$0	\$31,040	\$38,800	
	9 Highway Element of th MTP	\$3,112	\$12,448	\$3,800	\$15,200	\$0	\$0	\$0	\$0	\$0	\$0	\$6,912	\$0	\$27,648	\$34,560	
	10 Transit Element of the MTP	\$6,424	\$25,696	\$3,800	\$15,200	\$0	\$0	\$0	\$0	\$0	\$0	\$10,224	\$0	\$40,896	\$51,120	
	11 Bicycle & Ped. Element of the MTP	\$7,200	\$28,800	\$2,878	\$11,512	\$0	\$0	\$0	\$0	\$0	\$0	\$10,078	\$0	\$40,312	\$50,390	
	12 Airport/Air Travel Element of MTP	\$1,120	\$4,480	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$1,320	\$0	\$5,280	\$6,600	
	13 Collector Street Element of MTP	\$1,794	\$7,176	\$600	\$2,400	\$0	\$0	\$0	\$0	\$0	\$0	\$2,394	\$0	\$9,576	\$11,970	
	14 Rail, Water or other mode of MTP	\$1,400	\$5,600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,400	\$0	\$5,600	\$7,000	
	15 Freight Movement/Mobility Planning	\$3,540	\$14,160	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$3,740	\$0	\$14,960	\$18,700	
	16 Financial Planning	\$1,000	\$4,000	\$480	\$1,920	\$0	\$0	\$0	\$0	\$0	\$0	\$1,480	\$0	\$5,920	\$7,400	
	17 Congestion Management Strategies	\$17,340	\$69,360	\$1,139	\$4,555	\$0	\$0	\$0	\$0	\$0	\$0	\$18,479	\$0	\$73,915	\$92,394	
	18 Air Qual. Planning/Conformity Anal.	\$1,360	\$5,440	\$1,600	\$6,400	\$0	\$0	\$0	\$0	\$0	\$0	\$2,960	\$0	\$11,840	\$14,800	
		\$0	\$0	\$0	\$0											
II C	Short Range Transit Planning	\$0	\$0	\$0	\$0											
	1 Short Range Transit Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
		\$0	\$0	\$0	\$0											
III-A	Planning Work Program	\$0	\$0	\$0	\$0											
	Planning Work Program	\$5,958	\$23,832	\$4,006	\$16,024	\$0	\$0	\$0	\$0	\$0	\$0	\$9,964	\$0	\$39,856	\$49,820	
		\$0	\$0	\$0	\$0											
III-B	Transp. Improvement Plan	\$0	\$0	\$0	\$0											
	TIP	\$7,980	\$31,920	\$5,661	\$22,645	\$0	\$0	\$0	\$0	\$0	\$0	\$13,641	\$0	\$54,565	\$68,206	
		\$0	\$0	\$0	\$0											
III-C	Cvl Rgts. Cmp./Otr. Reg. Reqs.	\$0	\$0	\$0	\$0											
	1 Title VI	\$2,000	\$8,000	\$1,000	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$3,000	\$0	\$12,000	\$15,000	
	2 Environmental Justice	\$1,800	\$7,200	\$1,640	\$6,560	\$0	\$0	\$0	\$0	\$0	\$0	\$3,440	\$0	\$13,760	\$17,200	
	3 Minority Business Enterprise	\$0	\$0	\$400	\$1,600	\$0	\$0	\$0	\$0	\$0	\$0	\$400	\$0	\$1,600	\$2,000	
	4 Planning for the Elderly & Disabled	\$400	\$1,600	\$400	\$1,600	\$0	\$0	\$0	\$0	\$0	\$0	\$800	\$0	\$3,200	\$4,000	
	5 Safety/Drug Control Planning	\$2,800	\$11,200	\$1,600	\$6,400	\$0	\$0	\$0	\$0	\$0	\$0	\$4,400	\$0	\$17,600	\$22,000	
	6 Public Involvement	\$8,800	\$35,200	\$3,769	\$15,077	\$0	\$0	\$0	\$0	\$0	\$0	\$12,569	\$0	\$50,277	\$62,846	
	7 Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
		\$0	\$0	\$0	\$0											
III-D	Incidental Png./Project Dev.	\$0	\$0	\$0	\$0											
	1 Transportation Enhancement Png.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	2 Enviro. Analysis & Pre-TIP Png.	\$3,470	\$13,880	\$2,600	\$10,400	\$0	\$0	\$0	\$0	\$0	\$0	\$6,070	\$0	\$24,280	\$30,350	
	3 Special Studies	\$2,800	\$11,200	\$4,600	\$18,400	\$0	\$0	\$0	\$0	\$0	\$0	\$7,400	\$0	\$29,600	\$37,000	
	4 Regional or Statewide Planning	\$4,400	\$17,600	\$3,600	\$14,400	\$0	\$0	\$0	\$0	\$0	\$0	\$8,000	\$0	\$32,000	\$40,000	
		\$0	\$0	\$0	\$0											
III-E	Management & Operations	\$0	\$0	\$0	\$0											
	1 Management & Operations	\$15,800	\$63,200	\$12,400	\$49,600	\$0	\$0	\$0	\$0	\$0	\$0	\$28,200	\$0	\$112,800	\$141,000	
	Totals	\$200,000	\$800,000	\$88,275	\$353,101	\$0	\$0	\$0	\$0	\$0	\$0	\$288,275	\$0	\$1,153,101	\$1,441,376	

Summary of LPA Tasks and Funding by Broad Categories		
Broad Aggregated Tasks	FY funding	Percent
Data -planning support	\$211,380	14.7%
GIS/Mapping/WEB	\$161,846	11.2%
TIP / SPOT	\$98,556	6.8%
CTP/MTP/Metro Transp Plng	\$259,920	18.0%
Modeling/Technical/Survey	\$289,260	20.1%
CMP/MRC	\$114,394	7.9%
Management-Grants	\$190,820	13.2%
Others/regulatory	\$115,200	8.0%
Total	\$1,441,376	100%

Broad Aggregated Tasks - FY funding



Broad Aggregated Tasks - Percent



January 2018
DCHC MPO
LEAD PLANNING
AGENCY (LPA)

Felix Nwoko, MPO Manager

Administration of the MPO
 Management/Operation of MPO (3C)
 State and regional coordination
 MPO Policy and programs
 Technical project management
 NEPA Project planning & Air Quality Conformity
 Civil Rights/Title VI

Yangping Zhang – Model, Technical Team Lead

Modeling
 Technical
 Special Projects
 Lane use modeling
 Air Quality Analysis
 Performance Measures

KoSok Chae, CMP

CMP
 Data monitoring
 Surveillance of change
 ITS
 Traffic analysis
 Planning/Operations
 Coordination (DynSmart)

Mike Bruff – Modeling/Technical

Modeling
 Technical support
 Demographic/behavioral data
 Staff support to the TRM Service Bureau

Durmus Cesur – Database/Systems Administrator

GIS oversight
 Database administration
 Website management and administration
 Interactive GIS

Interns/Temporary Part-Time

Data Collection, mining analyses
 GIS/Geo-Spatial Analyses
 Operation coordination
 Data support & management
 Civil Rights/Title VI
 Environmental Justice/LEP
 Minutes preparation
 Board/TC meeting support

Andy Henry - LRTP/CTP

MTP/CTP & Collector Street planning
 Implementation of planning factors
 Land Use/SE data
 Air Quality Conformity & Public Involvement

Dale Mckeel – Bicycle & Pedestrian Planning & Programming

Bike-Pedestrian planning activities
 Education, Enforcement, Engineering
 Safety, TDM, & Public Involvement
 Safe Routes to School/Transportation Alternatives
 NEPA Project Planning

Brian Rhodes – Technician, Graphic & GIS Support

MTP/CTP
 Collector Street planning
 Implementation of planning factors
 Land Use/SE data & Public Involvement

Margaret Scully – Grant and Fiscal Management & Oversight

UPWP development and management
 Grant administration & program oversight
 5307/5340/5310/5339 apportionment
 Funding (CMAQ/STPDA)

Aaron Cain – MPO Board/TC

MPO Board/TC liaison
 3-C Process & TIP/SPOT
 Mobility Funds & Public Involvement
 Project Prioritization

Maureen Devlin – Staff Work Group Administrator

Administers County Transit Plans/Staff Work Group

DCHC MPO Task Description and Summary Narrative

II-A: Surveillance of Change

The MPO is required by federal regulations and the 3C process to perform continuous data monitoring and maintenance. A number of transportation and socio-economic/demographic conditions will be continuously surveyed and compiled annually to feed into MPO technical analyses such as modeling, Metropolitan Transportation Plan update, Congestion Management Process, Mobility Report Card project development, Title VI planning, EJ/LEP demographic profiles, TIP, project prioritization, etc. The following data collection and monitoring tasks will be conducted during the FY2019 UPWP period.

Task II-A-1: Traffic Volume Counts

The Lead Planning Agency (LPA) will continue to collect tabulate and analyze traffic counts and turning movement counts at specified locations. This task includes maintaining ADT counts and database for model calibration on arterial, minor arterial, and collector streets. The LPA will continue routine traffic counts data collection as part of the annual count program as well as on screen lines and cut lines for model validation. These counts will augment triennial traffic counts collected by NCDOT. Traffic counts will include daily, hourly, vehicle classification, or turning movements. The MPO agencies will be responsible for supplementing counts at specified locations within their jurisdiction and for furnishing the raw daily traffic counts, count information, and location maps to the LPA. The traffic count data will feed into the MPO Congestion Management Process (CMP), Triangle Regional Model (TRM) maintenance and update, MPO GIS and safety and freight planning, TIP prioritization, and federally required performance measurement and establishment of targets.

Task II-A-2: Vehicle Miles of Travel (VMT) Person Miles of Travel (PMT)

The LPA will continue to tabulate VMT by functional classification and County. As specified by the Metropolitan Transportation Plan Goals, Objectives and Targets, annual VMT growth will be monitored and compared to the MTP Targets. The MPO will continue to refine the methodology for tracking multi-modal PMT. This information will help to develop performance measures required by federal legislation and also help determine if the Plan targets are being met. This will feed into the Highway Performance Monitoring System (HPMS), CMP and the Mobility Report Card. The LPA will continue to generate VMT metric from the Triangle Regional Model.

Task II-A-3: Street System Mileage Change

DCHC MPO will update local street centerline GIS data for all DCHC MPO counties and all counties immediately adjacent to the region. DCHC MPO counties will be updated as needed, with metadata verified or created; the old layer will be archived with a timestamp in the filename. Adjacent counties will follow the same protocol, but be done on a bi-annual basis unless a higher frequency is required. The MPO will continue to update inventory of improvements to municipal street system, and update the inventory of signalization on existing major streets, to provide accurate inputs for the Triangle Regional Model (TRM). The MPO will monitor changes in street mileage systems from previous years and summarize inventory by functional classification. The MPO will continue to update HERE (formerly NAVTEQ) street file and attribute data. The MPO municipalities (Town of Chapel Hill, the Town of Carrboro, and the City of Durham) will continue to gather from the NCDOT Division 7 and 5 offices and compile in database, improvements to the state highway system, whether planned, underway, or completed. Each municipality will compile and maintain similar records for its municipal street system. The MPO municipalities participating in the Powell Bill Program will certify street mileage maintained during this fiscal year. The product of this task will feed into the MPO GIS and data management system. The objective is that, periodically or as changes or additions to the major street system occur, street inventory will be updated and be current through the proposed data automation and management system. These data will also feed into the MPO performance measures as required by federal regulation.

Task II-A-4: Traffic Accidents (Crash/Safety)

The LPA will continue to collect, tabulate and analyze route traffic accident data from TEES and prepare a summary and analysis of high accident locations by mode as well as compare data analysis to previous years' results. Crash data will include auto, bike and pedestrian crashes for the latest three year period within the MPO Metropolitan Planning Boundary. This task will align, build from, and support the safety work of the NCDOT as required by federal regulations. The task will feed into the MPO Congestion Management Process (CMP), MPO MTIP ranking and project prioritization, SPOT, mobility funds and urban loop funds prioritization, etc. The LPA will update the geo-spatial application that will map, manage and analyze crash data in a way that will allow planners, engineers and the public to better understand crashes within our region. The analytical tool will also allow the MPO to formulate public policy with our entities that will reduce crashes and improve public safety.

Task II-A-5: Transit System Data

The LPA will continue to undertake a comprehensive transit system data collection effort. Transit data will be collected for MPO transit providers including GoDurham, Chapel Hill Transit (CHT), GoTriangle and Duke University Transit. This will include APC data to evaluate transit service performance, route productivity, and develop standards. Operators will identify strengths and weaknesses of service by route in order to assess service barriers and future options. Information will be used to monitor service and meet FTA NTD reporting requirements. APC data will be summarized and tabulated for CHT, GoDurham, Duke and GoTriangle as follows: stop level, trip level, time period (peak/nonpeak) level, segment by trip, segment by time period, spatial analysis (TAZ and census tract) and micro analysis (system level).

Task II-A-6: Dwelling Unit / Population and Employment Changes

The LPA will continue to maintain inventory of dwelling units and population to track changes and to compare with assumptions used in the adopted MTP and CTP. Changes in development will be used to determine needed changes in transportation services and how well developments compare to current and projected demands. The LPA continues to review developments to assess impacts to the 2040 Metropolitan Transportation Plan (2040 MTP), socio-economic and demographic data for MTP update, update of Community Viz land-use scenario planning, land-use model update, and transportation project development. Changes in dwelling units and employment within the MPO will be identified and evaluated to determine accuracy and consistency with the socio-economic forecast. The MPO will review and tabulate Census data, local parcel, zoning, tax data records, InfoUSA, and Employment Security Commission data as part of this monitoring task. The MPO will continue work on the update and enhancement of the MPO GIS enterprise and the Employment Analyst.

Task II-A-7: Air Travel

The MPO will continue to undertake routine collection of travel and passenger data at the Raleigh-Durham International Airport (RDU). Data to be collected and analyzed include, but are not limited to, number of daily flights, number of daily enplaned passengers, number of deplaned passengers, ground transportation, and tons of cargo activity. The purpose of the data collection and monitoring is to determine the influence of RDU as a generator on the regional transportation system and to identify need for additional services.

Task II-A-9: Travel Time Studies

The MPO will continue to undertake routine travel-time runs (floating car technique) on selected links during peak period to provide accurate inputs for applications such as the travel model update and the CMP. MPO will continue evaluation of travel time field data collector, and validation using INRIX and other Bluetooth. The LPA will collect highway/auto travel time and speed along major and minor facilities. The MPO will continue to update the HERE travel time and the MS2 travel time portal.

Task II-A-10: Mapping

This task will include, but not be limited to, mapping of, and geo-spatial updates to, UPWP transportation planning activities such as the CMP, traffic counts, bicycle and pedestrian counts and inventory, transit routes, land use, traffic analysis zones, socio-economic and demographic trends, Title VI and environmental factors. The MPO will continue to update base maps for corridor studies and project planning. Work will continue on the development and update of the GIS online. Work will continue on the update and enhancement of mapping for the MPO website and Public Involvement planning. Work will also continue on the integration and maintenance of the Employment Analyst, community Viz and enterprise GIS. The LPA will continue to improve MPO GIS support for short and long-range transportation plans by providing visualization enhancement and as required by federal regulations, including creating and maintaining metadata and data catalog for MPO planning area. MPO transit operators will update GIS data for transit routes, stops and segments including attributes. The LPA will continue work associated with management of MPO database, ArcGIS shape files and Google KML files. Expected deliverables and work products are summarized as follows:

- Update and enhancements of GIS Online portals
- GIS online mapping
- Maintenance and development of updated MPO data collection maps
- Transit APC mapping
- Updated transit routes, stops, segments with attributes
- Maintain project geospatial and tabular data related to transit component of the CTP, MTP and TIP
- Parking inventory spatial database and mapping
- ADT mapping in support of planning needs
- Data mapping in support of planning needs
- Employment Analyst enhancements
- Base year tear socio economic and demographic maps
- LEP/EJ demographic profiles mapping
- Updated local and composite street centerline mapping
- Updated HERE street layer
- Crash and safety mapping in support of planning needs and project development.

Task II-A-11: Central Area Parking Inventory

The LPA will continue data collection and inventory of on- and off- street parking facilities in the Central Business Districts (CBD), major generators and universities. Parking data to be collected include number of spaces, parking fee rates (hourly daily, and monthly), average weekday costs, and demand. Parking information collected will help in the calibration and maintenance of the travel model. The LPA will update the parking inventory and usage spatial geodatabase as well as Parking Area Study Analysis.

Task II-A-12: Bike & Pedestrian Facilities Inventory

The MPO will continue to conduct inventory of bicycle and pedestrian facilities as part of the CMP and development of performance measures. The inventory will provide inputs for the travel model and help identify future sidewalk projects, guide pedestrian improvement planning, and support specific projects, such as the Comprehensive Bicycle Plan, Comprehensive Pedestrian Plan and TIP/SPOT prioritization.

Task II-A-13: Bicycle and Pedestrian Counts

The LPA staff will continue to participate in bicycle and pedestrian planning in the region and provide technical assistance/coordination to other government units as needed. The MTP supports and encourages bicycle and pedestrian planning and staff continue to work toward achieving those goals. The primary activity in this task will be the further development of the bicycle system inventory using GIS

online and Google Earth. The MPO will continue to conduct an inventory of bicycle and pedestrian facilities as part of the CMP and the development of performance measures. The proposed inventory will provide accurate inputs for the travel model update as well as help identify future sidewalk projects, guide pedestrian improvement planning, and to support specific projects, such as the Comprehensive Bicycle Plan, Comprehensive Pedestrian Plan, and TIP/SPOT prioritization. Also, inventory of bicycle and pedestrian counts will continue to be conducted as part of the Congestion Management Process and development of performance measures. The inventory will guide pedestrian improvement planning, and support specific projects, such as the Comprehensive Bicycle Plan, Comprehensive Pedestrian Plan, development of Transportation Alternatives (TA) funding allocation criteria, etc.

II-B: Long Range Transportation Plan/Metropolitan Transportation Plan (MTP) Activities

Federal Law and USDOT's Metropolitan Planning Regulations require the MPO to have a Metropolitan Transportation Plan (MTP) that is: multi-modal, financially constrained, has a minimum 20 year horizon, adheres to the MPO's adopted Public Involvement Policy (PIP), has growth forecasts consistent with latest planning assumptions and local land use plan, meets air quality conformity, and be approved by the MPO Board. The MTP must be updated and reaffirmed every 4 years. The DCHC will continue tasks associated with the update and reappraisal of the comprehensive transportation plan as well as commence data collection preparation for the 2020 model base year. The MPO will continue to work on the preparatory work for timely and efficient development of the 2050 MTP.

Task II-B-1: Collection of Base Year Data

This task provides travel and socio-economic data for the modeling update. The data collection initiatives include processing and analysis of Census, American Community Survey (ACS) and employment/special generator. These efforts will result in the creation of several travel modeling databases that will be used in the development and update of forecasting tools. The LPA will continue to update the socio-economic and demographic data for the base year model and Title VI demographic/ Minority and Low Income (MLI) profiles. Work activities will include update, estimation and tabulation of the following data elements; population, housing, income, auto ownership, limited-english proficiency, linguistically isolated households, workers, head of household, environmental justice, linguistic demographic factors, ACS community patterns, school enrollment, etc. It is expected that these variables will be linked to the proposed data automation projects, and a GIS database and management system will be used to maintain the aforementioned socio-economic and land use information. An integral part of this task also will be continuous data verification, reconciliation, and quality and error checks.

Task II-B-2: Collection of Network Data

The MPO will continue to update transportation/model network data. The proposed work activities will include collection and update of the following transportation network variables and attributes:

A-Highways: 1) posted speed limit; 2) number of lanes; 3) segment length; 4) turn pockets; 5) parking conditions; 6) traffic signal locations and stop conditions; 7) signal density; 8) access control and driveway conditions; 9) land use and area type; 10) free flow speeds; 11) Travel Time; 12) median condition; and 13) facility type and functional classification.

B-Transit: 1) headways; 2) speed; 3) hours of operation; 4) services miles; 5) fare structure; 6) transfer information; 7) schedule information; and 8) route information and service characteristics for each route.

C-Bicycle and Pedestrian: 1) mileage; 2) activity density; 3) neighborhood characteristics; 4) environment/friendliness factors/indices; and 5) connectivity.

Task II-B-3: Travel Model Updates

The purpose of this task is to continue to review and analyze existing travel demand and air quality models in order to determine feasible enhancements to the modeling procedures that are used in the TRM. DCHC MPO will continue to perform air quality, regional travel demand, and micro-simulation model runs for existing and future projects as needed. Staff will continue to be involved in the development, enhancement and update of the Triangle Regional Model (TRM). Specifically, work will focus on the development, calibration and development of Version 6.1 of the model and preparatory work for version 6.x or V7. This element provides for maintenance, improvement, and support of travel models housed at the Service Bureau. These models provide analytical tools for various transportation analyses, policy testing, and public outreach. Improvement activities involve developing new tools and techniques to enhance travel model applications in various areas. Support activities involve maintenance of the software and hardware of the modeling system, documentation, staff training, and assisting consultants who are providing service to the regional projects. This element also provides for technical communication and participation at the State and Federal (FHWA &FTA) levels to ensure travel models are developed in a coordinated manner to meet future needs and expectations. Consultants and University partnership/ assistance will be utilized in undertaking work activities under this task.

The DCHC MPO, with CAMPO, NCDOT and GoTriangle, develops and maintains a regional travel demand model for predicting the impact of transportation investments and land-use policies on travel demand and air quality. The model is used by the MPO in development of the required MTP and CTP, by NCDOT in project development, SPOT/TIP prioritization, Mobility funds ranking and loop prioritization, by GoTriangle in new Start analysis and fixed guideway transit, and by local and state agencies for development impacts analysis and scenario planning. The main modeling work tasks include:

- Monitor and understand changes in federal requirements as they affect MPO modeling.
- Continue to improve and enhance models and make them responsive to technical and policy questions the MPO seeks to answer.
- Research ways in which the state-of-the-practice is changing and develop modification and improvements in the modeling process to meet those standards.
- Acquire and process data so work program can be accomplished to meet federal requirements.
- Estimate, calibrate and validate current TRM as an on-going activity.
- Ensure that validation focuses on improvements to link level and route level performance.
- Ensure TRM base year and future years are ready for MTP evaluation two years before hand.
- Document TRM so it can be understood and replicated.
- Document the modeling process so that its capabilities and limitations can be understood by policy makers and lay person.

Essentially, the modeling in the proposed work program involves the update, calibration and validation for the model to support the development of the TRM versions 6.1 and 6.x and MTP modeling support. Update of the TRM including improvements, enhancements and major updates.

Task II-B-4: Travel Surveys

The DCHC MPO, along with the other TRM stakeholders, will undertake an annual rolling ACS style continuous travel behavior survey (household survey) and Transit Onboard survey tabulation and analysis. The survey is being managed by the TRM Service Bureau, however LPA staff will be involved in every facet of the survey and analysis.

Task II-B-5: Forecast of Data to Horizon Year

The LPA will continue to generate and update socio-economic and demographic projections and forecasts. CTP and MTP forecasts will continue to be re-evaluated and refined consistent with local land-use plans as well as State and regional land use policies.

Task II-B-6: Community Goals and Objectives

The MPO will continue work on performance measures/targets as subset of Goals and Objectives.

Task II-B-7: Forecast of Future Travel Patterns

MPO will generate and update travel demand forecasts for future years including MTIP, SPOT, CMP, MRC, etc. The forecast of travel patterns will include a review of these factors and comparison to community goals and objectives to determine if changes in assumptions are warranted.

Task II-B-8: Capacity Deficiency Analysis

The MPO will continue to update capacity deficiency analysis for reappraisal activities for CTP and MTP, MRC, CMP and other project development activities. Essentially this task encompasses application of the Triangle Regional Model and other modeling tools to analyze deficiencies in the existing transportation system relative to anticipated future travel demand.

Task II-B-9: Highway Element of the MTP

The MPO will continue work associated with the reappraisal and evaluation of highway elements of the Comprehensive Transportation Plan and the update of the 2045 MTP. Performance measures will be established for evaluating highway performance.

Task II-B-10: Transit Element of the MTP

The MPO will continue with the update and evaluation of transit elements of the Comprehensive Transportation Plan, the MTP, County transit plans, and the regional New Starts. Transit evaluation will include fixed-route bus service, fixed-guideway transit, high capacity transit and demand- response transit. Using travel behavior, ridership forecasts and other analysis, evaluation of the transit element will look at unmet needs, new service areas and potential markets. Performance measures will be established for evaluating transit alternatives.

The MPO will continue to coordinate with GoTriangle and other regional partners regarding the development of the regional commuter rail and light rail. Specifically, the MPO will conduct planning and studies for D-O LRT, and high capacity transit and circulator transit (MLK BRT in Chapel Hill), and other planning work necessary for the preparation of the FTA Small-Start project. It is anticipated that this work will be accomplished with the help of consulting services.

Task II-B-11: Bicycle & Pedestrian Element of the MTP

The MPO will continue with the reappraisal and reevaluation of bicycle and pedestrian elements of the Comprehensive Transportation Plan and the MTP. The MPO and its member agencies will continue work on improving and enhancing bike and pedestrian investment within the MPO.

Task II-B-12: Airport/Air Travel Element of MTP

The MPO will continue with the evaluation of airport/air travel element of the Metropolitan Transportation Plan, including inter-modal connection and access/ground transportation. Work task will include review of RDU plans and comparison and integration as necessary with the MTP for consistency.

Task II-B-13: Collector Street Element of MTP

MPO will continue work on the update of the MPO Collector Street and Connectivity Plan. Work tasks will to involve the identification of future collector street connectivity needs, provisions for local street connectivity, development ordinance implementation provisions, additional local government consultation, and public involvement. The MPO will continue to involve CAMPO, City of Raleigh and Wake County regarding collector street and connectivity planning in Brier Creek and east Durham area.

Task II-B-14: Rail, Water, or Other Mode of MTP

The MPO will continue to work with NCDOT Rail Division, GoTriangle and CAMPO regarding rail transportation in the Triangle. Work includes, but is not limited to, survey of rail plans, relationship to the MPO Metropolitan Transportation Plan and Comprehensive Transportation Plan, programmatic impacts, etc. Also, this task will include planning associated with commuter and light rail efforts. The CRT MIS work will continue in FY2019.

Task II-B-15: Freight Movement/Mobility Planning

MPO will continue to undertake tasks associated with urban goods movement, specifically freight accessibility and mobility. Tasks associated with the implementation of the Regional Freight Plan will continue. Other tasks to be undertaken include attending and staffing the Regional Freight Stakeholders meetings, survey of freight carriers, recommendations for improving truck mobility or train/truck intermodal movements, and identifying acceptable truck routes. The MPO will continue the management role to the update of the Triangle Regional Freight plan.

Task II-B-16: Financial Planning

The MPO will continue to update and refine cost estimates and revenues for the regional transit initiatives and the 2045 MTP. As part of this task, the MPO will examine financial options for funding proposed transportation projects and programs, including review of the financial planning assumptions/ projections in the 2045 MTP and update of the Durham County and Orange County financial plans based on the latest half-cent sales tax revenue collection.

Task II-B-17: Congestion Management Systems Strategies

The MPO will work to implement and monitor the Congestion Management Program (CMP) in accordance with the provisions of 23 U.S.C. and 23 CFR. Specifically, the MPO will continue with the update and monitoring of CMP strategies and State of the Systems Report. Also, the MPO will continue to update the Mobility Report Card, including updating metrics, graphics and reports. The MPO will continue to participate in, and collaborate on, the update, monitoring and implementation of the Travel Demand Management (TDM) activities and program.

Task II-B-18: Air Quality Planning/Conformity Analysis

Although the MPO is now designated as attainment for criteria pollutants as of September 18, 2015, the MPO will continue to perform and undertake air quality planning activities. Essentially, the MPO will continue to make a determination as to whether or not transportation plans, programs, and projects (MTP and TIP) conform to air quality standards. The LPA will continue to provide technical support to the TC and Board regarding air quality planning. In addition the LPA will continue participation in the development and application of State Implementation Plans for air quality, participation in the statewide interagency consultation, and providing assistance to NCDEQ in developing and maintaining mobile source emission inventories.

Task II-C: Short Range Transit Planning

The MPO transit operators will continue activities related to short range transit planning. This includes continuous evaluation of their respective transit development plans and service performance.

Task III-A: Planning Work Program

Unified Planning Work Program (UPWP) work includes conducting metropolitan planning and implementing planning activities for the MPO. This involves responding to regulations and mandates, and reporting information on 3C planning topics, including those identified in federal legislation, and issues related to federal policies, regulations, and guidance, such as responding to federal certification recommendations. Additionally, the LPA will provide support related to planning topics such as those

highlighted in federal planning guidance, including operations and management, sustainability, health, freight, economic effects, and environmental issues.

Under this work element, the LPA will finalize the reimbursement and invoicing process for the FY2018 UPWP, administer the FY2019 UPWP, prepare and process amendments as needed, evaluate transportation planning work needs and emphasis areas and prepare the FY2020 UPWP. LPA will prepare and continually maintain UPWP that describes all transportation and transportation-related planning activities anticipated within the DCHC MPO planning area for the FY2019. Work program will include the development and maintenance of UPWP in conformance with applicable federal, state, and regional guidelines. In addition, work will include the preparation of UPWP amendments as necessary and requested by member agencies, to reflect any change in programming or focus for the current fiscal year. The MPO will commence the preparatory work on the development of the FY2020 UPWP.

Task III-B: Transportation Improvement Program (TIP)

The LPA will continue work associated with the development of the 2020-29 MTIP, including prioritization work (SPOT-6) activities. Also, the MPO will continue to process TIP amendments as needed, including coordinating with the MPO member agencies and conducting public involvement/outreach, and commence work on the development of the TIP ranking and prioritization. This includes the refinement of the MPO Priority Needs and the identification of the transportation projects, programs, and services towards which the MPO will direct STBG-DA funds. As the Lead Planning Agency (LPA) of the DCHC MPO, the City of Durham Transportation Department –Planning Division is responsible for annually developing, amending, adjusting and maintaining the Transportation Improvement Program (TIP) for the metropolitan area. Under this activity, the LPA will examine any possible need to update and amend the current transportation improvement projects (MTIP) that is consistent with the 2045 Metropolitan Transportation Plan, STIP and FHWA/FTA Planning Regulations.

Task III-C: Civil Rights Compliance/Other Regulations and Requirements

Task III-C-1: Title VI

The MPO will continue work on the Title VI plan and the NCDOT Civil Right compliance report. NCDOT Civil Right Division conducted a Title VI audit. As a result of the audit the MPO prepared the required Title VI Policy Statement and Assurance. That assurance will be updated accordingly. The DCHC MPO will continue work on the development of the MPO Limited English Proficiency plan as it relates to Title VI issues.

Task III-C-2: Environmental Justice (EJ)

In accordance with Federal action (Executive Order 12898), the MPO will develop an Environmental Justice Plan which will focus on complying with the Executive Order and the three basic principles of Environmental Justice: 1) Ensure adequate public involvement of low-income and minority groups in decision-making; 2) Prevent disproportionately high and adverse impacts to low-income and minority groups resulting from transportation and environmental decisions made by the MPO; and 3) Assure that low-income and minority groups receive a proportionate share of benefits resulting from transportation decisions made by the MPO. Tasks include:

1. Develop MPO Environmental Justice Plan, including establishment of Environmental Justice Advisory Board
2. Update demographic profiles based on Census CTPP and PUMS as well as MPO SE data forecasts - maps to identify areas of low-income, minority and elderly populations, job accessibility, and overlay of major employers, fixed route transit systems, and major shopping areas.
3. Provide increased opportunities for under-served populations to be represented in the transportation planning process.

4. Define target areas through the use of Census Block Group data from the 2010 Census.
5. Analyze the mobility of target area populations to jobs, childcare, and transit routes.
6. Review existing public outreach and involvement plan.
7. Develop a protocol for responding to issues and concerns regarding environmental justice in general and Hispanic population in particular.
8. Conduct analysis as needed regarding equitable distribution of transportation system benefits and costs among all socio-economic groups throughout the MPO area

Task III-C-3: Minority Business Enterprise

The MPO will continue to address and monitor the Minority Business Enterprise (MBE) program as a part of the planning and programming phases of project development. The MPO will monitor transportation projects and programs to ensure that meaningful and full consideration are given to MBEs. The LPA will review and summarize transit operators MBE program and utilization.

Task III-C-4: Planning for the Elderly & Disabled

The MPO will continue to emphasize planning and provision of transportation facilities and services for persons who are elderly or have a disability. Specifically, the MPO will update the inventory of locations and needs of persons who are elderly or have a disability. The MPO will work with transit operators in the planning and evaluation of para-transit services.

Task III-C-5: Safety and Drug Control Planning

The MPO will continue to update the regional safety plan and report using the data from, and analysis of, TEES data. The MPO will continue to participate in the transit operator's safety coordination meetings as well as update the multi-modal safety plan. The MPO will develop an MPO Safety Plan that incorporates elements of VISION ZERO.

Task III-C-6: Public Involvement

The MPO will continue to update and enhance the MPO website as well as continue to strive to provide early, proactive, and meaningful public participation and input throughout the transportation planning process, including providing for open exchange of information and ideas between the public and transportation decision-makers, to provide the public with complete information, timely notice, full access to key decisions and opportunities for early and continuing involvement in the 3C process, to assess the effectiveness of the current Public Involvement Process as required by the federal Certification Team, and to develop and enhance the process of public dissemination of information. It also includes providing process support, such as developing and preparing informational materials for the MPO website, conducting public outreach, managing the MPO website, preparing and distributing the MPO's newsletter, implementing other social media (Twitter, YouTube and Facebook), and maintaining mailing lists and email lists.

Task III-D: Incidental Planning/Project Development

Task III-D-2: Environmental Analysis & Pre-TIP Planning

The LPA will continue to participate regularly and consistently in the TIP project planning and development process, including submission of comments, attending public meetings, attending scoping meetings, attending NEPA 404 merger meetings, and participating in field inspections. The LPA will continue to be involved in NCDOT project development and the NEPA process including taking the lead in the public involvement process as needed. The MPO will continue to support and be involved in NCDOT efforts to link the NEPA process in the MPO systems planning process.

Task III-D-3 Special Studies

The MPO will continue with wide range of studies which are being conducted to meet the transportation planning needs of the area. These studies include Mobility Report Card. Community Viz integration with RPAT, US 15-501 Corridor, continuation of the regional ITS and Toll Study, MS2 Data portals, funding /E-TIP database, application and portals development, incident management plan, GIS enterprise/GIS online, non-motorized trip model update, land-use model update, etc.

Task III-D-4: Regional or Statewide Planning

The MPO will continue to coordinate with CAMPO, GoTriangle, NCDOT, NCDEQ, FHWA, FTA, EPA, and other State and regional agencies in regional transportation. This includes participation in the DCHC-CAMPO joint Board meetings, GoTriangle Board Meetings, Durham-Chapel Hill-Orange County Work Group, and a wide range of regional transportation planning working groups and committees. Examples include the Model Team, the Executive Committee, and the regional transit planning/operation coordination. Statewide planning includes participation in various statewide planning initiatives such as CMAQ Committee, Indirect and Cumulative Impacts of Transportation Projects in North Carolina, the State Transportation Plan process, and the CTP.

Task III-E: Management and Operations

The purpose of this work is to assist, support, and facilitate an open Comprehensive, Cooperative, and Continuing (3C) transportation planning and programming process in conformance with applicable federal and state requirements and guidelines as described in the 3C Memorandum of Understanding. This work element encompasses the administration and support of transportation planning process as mandated and required by federal regulations. The continuing transportation planning process requires considerable administrative time for attending monthly committee meetings, preparing agendas and minutes of these meetings, training, preparing quarterly progress reports, documenting expenditures for the various planning work items, and filing for reimbursement of expenditures from the PL and STBG-DA funds account and other Federal funds. In addition, this work includes consultation with other agencies involved within 3C planning activities; liaison activities between the MPO and NCDOT and ongoing coordination with CAMPO; and communication with other regional groups. Other activities include the day-to-day oversight of, and reporting on, the progress of projects listed in the UPWP, and the establishment of work priorities in light of MPO needs. Proposed tasks include, but are not limited to:

1. Provide liaisons between DCHC MPO member agencies, transit providers, CAMPO, NCDOT, NCDEQ, TJCOG, and other organizations at the local, regional, state, and federal levels on transportation related matters, issues and actions.
2. Respond to federal and State legislation and regulations.
3. Provide service request to citizens.
4. Provide service requests and technical support to MPO member agencies.
5. Provide oversight to MPO planning and transit funding policies.
6. Work with the CAMPO on regional issues. Prepare Regional Priority lists and MTIP and amend as necessary, update transportation plans, travel demand model, and monitor data changes. Evaluate transportation planning programs developed through the 3C public participation process for appropriate MPO action.
7. Provide technical assistance to the Board and other member jurisdictions policy bodies.
8. Participate in joint CAMPO/DCHC MPO TC and Board meetings to continually improve the quality and operation of the transportation planning process and decision making in the Triangle Region.
9. Review and comment on federal and state transportation-related plans, programs, regulations and guidelines.

**DCHC MPO 5-Year Unified Planning Work Program
July 1, 2018 to June 30, 2023**

	1	2	3	4	5
FY	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Period	2018-19	2019-20	2020-21	2021-22	2022-23
	July 1, 2018-June 30, 2019	July 1, 2019-June 30, 2020	July 1, 2020-June 30, 2021	July 1, 2021-June 30, 2022	July 1, 2022-June 30, 2023
1	Surveillance of Change/ Data monitoring	Surveillance of Change/ Data monitoring	Surveillance of Change/ Data monitoring	Surveillance of Change/ Data monitoring	Surveillance of Change/ Data monitoring
1.1	ADT count and TMC annual and seasonal, including update of count databsr system	ADT count and TMC annual and seasonal, including update of count databsr system	ADT count and TMC annual and seasonal, including update of count databsr system	ADT count and TMC annual and seasonal, including update of count databsr system	ADT count and TMC annual and seasonal, including update of count databsr system
1.2	VMT update and monitoring	VMT update and monitoring	VMT update and monitoring	VMT update and monitoring	VMT update and monitoring
1.3	Street System Changes update. Update of HERE Street layer	Street System Changes update. Update of INRIX/HERE Street layer	Street System Changes update. Update of INRIX/HERE Street layer	Street System Changes update. Update of INRIX/HERE Street layer	Street System Changes update. Update of INRIX/HERE Street layer
1.4	Traffic accidents data/ multi-modal safety data update and analyses	Traffic accidents data/ multi-modal safety data update and analyses	Traffic accidents data/ multi-modal safety data update and analyses	Traffic accidents data/ multi-modal safety data update and analyses	Traffic accidents data/ multi-modal safety data update and analyses
1.5	Transit system data/Continual update of APC data	Transit system data/Continual update of APC data	Transit system data/Continual update of APC data	Transit system data/Continual update of APC data	Transit system data/Continual update of APC data
1.6	Housing, POP, Emp. Data,including development review/permits, CO, Census, INFOUSA (employment & household data), etc	Housing, POP, Emp. Data,including development review/permits, CO, Census, INFOUSA (employment & household data), etc	Housing, POP, Emp. Data,including development review/permits, CO, Census, INFOUSA (employment & household data), etc	Housing, POP, Emp. Data,including development review/permits, CO, Census, INFOUSA (employment & household data), etc	Housing, POP, Emp. Data,including development review/permits, CO, Census, INFOUSA (employment & household data), etc
1.7	Air travel. Continual monitoring of RDU passemger activities and ground transportation	Air travel. Continual monitoring of RDU passemger activities and ground transportation	Air travel. Continual monitoring of RDU passemger activities and ground transportation	Air travel. Continual monitoring of RDU passemger activities and ground transportation	Air travel. Continual monitoring of RDU passemger activities and ground transportation
1.8	VOC	VOC	VOC	VOC	VOC
1.9	Travel Time, including continual gathering and update of INRIX, HERE and Travel Time database monitoring system.	Travel Time, including continual gathering and update of INRIX, HERE and Travel Time database monitoring system.	Travel Time, including continual gathering and update of INRIX, HERE and Travel Time database monitoring system.	Travel Time, including continual gathering and update of INRIX, HERE and Travel Time database monitoring system.	Travel Time, including continual gathering and update of INRIX, HERE and Travel Time database monitoring system.
1.10	Mapping and update/enhancement and maintenance of the MPO Geo-spatial databse and GIS enterprise	Mapping and update/enhancement and maintenance of the MPO Geo-spatial databse and GIS enterprise	Mapping and update/enhancement and maintenance of the MPO Geo-spatial databse and GIS enterprise	Mapping and update/enhancement and maintenance of the MPO Geo-spatial databse and GIS enterprise	Mapping and update/enhancement and maintenance of the MPO Geo-spatial databse and GIS enterprise
1.11	Parking inventory	Parking inventory	Parking inventory	Parking inventory	Parking inventory
1.12	Bike/Pedestrian. Facilities Inv	Bike/Pedestrian. Facilities Inv	Bike/Pedestrian. Facilities Inv	Bike/Pedestrian. Facilities Inv	Bike/Pedestrian. Facilities Inv
1.13	Bike/Pedestrian. Facilities Counts	Bike/Pedestrian. Facilities Counts	Bike/Pedestrian. Facilities Counts	Bike/Pedestrian. Facilities Counts	Bike/Pedestrian. Facilities Counts
2	Unified Planning Work Program (UPWP)	Unified Planning Work Program (UPWP)	Unified Planning Work Program (UPWP)	Unified Planning Work Program (UPWP)	Unified Planning Work Program (UPWP)
2.1	Process UPWP amendments as necessary	Process UPWP amendments as necessary	Amend UPWP as necessary	Amend UPWP as necessary	Amend UPWP as necessary
2.2	Process quarterly invoices and reports	Process quarterly invoices and reports	Process quarterly invoices and reports	Process quarterly invoices and reports	Process quarterly invoices and reports
2.3	Prepare annual UPWP progress report and performance evaluation	Prepare annual UPWP progress report and performance evaluation	Prepare annual UPWP progress report and performance evaluation	Prepare annual UPWP progress report and performance evaluation	Prepare annual UPWP progress report and performance evaluation
2.4	Develop FY 2020 UPWP	Develop FY 2021 UPWP	Develop FY 2022 UPWP	Develop FY 2023 UPWP	Develop FY 2024 UPWP
2.5	UPWP financial management and administration	UPWP financial management and administration	UPWP financial management and administration	UPWP financial management and administration	UPWP financial management and administration
	Grant monitoring, oversight and audit	Grant monitoring, oversight and audit	Grant monitoring, oversight and audit	Grant monitoring, oversight and audit	Grant monitoring, oversight and audit
2.6	Perform annual self-certification & On-Going Process-Development	Perform annual self-certification & On-Going Process-Development	Perform annual self-certification & On-Going Process-Development	Perform annual self-certification & On-Going Process-Development	Perform annual self-certification & On-Going Process-Development
2.7	LPA Local match Cost Sharing, including preparation of annual report.	LPA Local match Cost Sharing, including preparation of annual report.	LPA Local match Cost Sharing, including preparation of annual report.	LPA Local match Cost Sharing, including preparation of annual report.	LPA Local match Cost Sharing, including preparation of annual report.
2.8	Management and Operations of the 3-C Process.	Management and Operations of the 3-C Process.	Management and Operations of the 3-C Process.	Management and Operations of the 3-C Process.	Management and Operations of the 3-C Process.
3	Metropolitan Transportation Plan (MTP)/Long-Range Transportation Planning	Metropolitan Transportation Plan (MTP)/Long-Range Transportation Planning	Metropolitan Transportation Plan (MTP)/Long-Range Transportation Planning	Metropolitan Transportation Plan (MTP)/Long-Range Transportation Planning	Metropolitan Transportation Plan (MTP)/Long-Range Transportation Planning

**DCHC MPO 5-Year Unified Planning Work Program
July 1, 2018 to June 30, 2023**

	1	2	3	4	5
FY	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Period	2018-19	2019-20	2020-21	2021-22	2022-23
	July 1, 2018-June 30, 2019	July 1, 2019-June 30, 2020	July 1, 2020-June 30, 2021	July 1, 2021-June 30, 2022	July 1, 2022-June 30, 2023
3.1	Amendment of the 2045 MTP as necessary	Adoption of the CTP	Amendment of the 2040 LRTP for AQ analysis and conformity as necessary	Work commences on MPO wide Community visioning. Product to lead into Goals and Objectives development	2050 MTP environmental analysis and consideration
3.2	Refinement of SE forecast to Horizon and intermediate years.	MTP Financial analysis and preparation of Financial Plan.	Initiate work on Community Viz 3.0 and scenario planning set up and preparation	Work associated with Goals, Objectives and targets for 2050 MTP commences.	Model and technical analyses for the 2050 MTP
3.3	Model Update and improvements for 2050 MTP development commences	CTP continual update and amendemnt as necessary.	CTP continual update and amendemnt as necessary.	Deficiency analysis and needs assessment for 2050 MTP	Continue work on GIS and mapping for MTP base maps
3.4	Inter-Agency Consultation process	Initiate base year SE and networks data collection	Update of base year networks and their attributes		Selection of Preferred MTP Option.
3.5	CTP continual update and amendemnt as necessary.	2050 MTP Visioning process	Update of modeling and technical tools for 2050 MTP analyses.	Generation of alternatives for 2050 MTP	AQ analysis and conformity determination process
3.6	Land-use Scenario analysis	Adoption of the 2050 MTP development process and schedule	Continue work on GIS and mapping for MTP base maps	Evaluation and analysis of alternatives	Inter-Agency Consultation process
3.7	MTP Visioning process and coordination kick-off	Develop 2050 MTP Public Outreach and input process, including involvement and input from MPO member agencies.	Base year SE data collection and analysis for 2050 MTP	Public outreach and input on the draft preferred plans (options).	Public outreach and involvement of the 2050 MTP.
		2050 Goals, Objectives and Performance Measures	Comm Viz Scenario planning and selection of the preferred scenario	CTP continual update and amendemnt as necessary.	Adoption of 2050 MTP and AQ comformity report
		Initiate Community Viz 3.0 model update and land-us scenario building.	Socio-economic and demographic forecasts for 2050 MTP, including 2030 and 2040 intermediate years	Incorporation of freight, airport, safety, EJ, etc.	Initiation of 2055 MTP development and update process
		Public outreach for land-use scenario	Amendment of the 2045 MTP as necessary	Amendment of the 2045 MTP as necessary	Amendment of the 2045 MTP as necessary
4	Travel Demand Model Development and Update	Travel Demand Model Development and Update	Travel Demand Model Development and Update	Travel Demand Model Development and Update	Travel Demand Model Development and Update
4.1	On-going model maintenance and enhancement activities	On-going model maintenance and enhancement activities	On-going model maintenance and enhancement activities	On-going model maintenance and enhancement activities	On-going model maintenance and enhancement activities
4.2	Collection of annual continuous household and transit on board survey. Coordination of estimation year data collection	Support MPO 2045 MTP and air quality conformity model applications	Develop TRMv7: continue estimating models for tour mode choice	Develop TRMv7: incorporate existing model components for commercial vehicles & external models	Develop TRMv7: complete model calibration and validation
4.3	Survey tabulation and analyses winter/spring 2018. Analysis and tabulation of estimation year data (traffic counts, SE data, PASA parking)	Collection of network data and development of networks	Develop TRMv7: model applications completed	Develop TRMv7: initial model calibration and validation begins	Develop TRMv7: develop application tools for plan evaluation & air quality analysis
4.4	Support MPO 2045 MTP model application and demand forecasts.	Maintain/enhance TRMv6: develop additional tools for application	Develop TRMv7: continue estimating models for tour mode choice		2020 census TAZ delineation
4.5	Maintain/enhance TRMv6.x: develop improved parking model	Develop TRMv7: begin developing/adapting application programs for population synthesizer/tour-activity scheduler/router			
4.6	Develop TRMv7: investigate/specify tour/activity scheduler/router	Develop TRMv7: begin model estimation and calibration for usual work and school location, activity scheduler, and router			
	Develop TRMv7: begin preparing data for estimation				

**DCHC MPO 5-Year Unified Planning Work Program
July 1, 2018 to June 30, 2023**

	1	2	3	4	5
FY	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Period	2018-19	2019-20	2020-21	2021-22	2022-23
	July 1, 2018-June 30, 2019	July 1, 2019-June 30, 2020	July 1, 2020-June 30, 2021	July 1, 2021-June 30, 2022	July 1, 2022-June 30, 2023
	Develop TRMv7: available data will be entered in selected data structure				
4.7					
5	Bicycle & Pedestrian Planning	Bicycle & Pedestrian Planning	Bicycle & Pedestrian Planning	Bicycle & Pedestrian Planning	Bicycle & Pedestrian Planning
5.1	On-going bike and pedestrian advocacy	On-going bike and pedestrian advocacy	On-going bike and pedestrian advocacy	On-going bike and pedestrian advocacy	On-going bike and pedestrian advocacy
5.2	Update of the Comprehensive Pedestrian Plan	Update of the Comprehensive Bicycle Plan. Update of the Regional Bike Plan	on-going implementation of the bike and pedestrian plans	on-going implementation of the bike and pedestrian plans	on-going implementation of the bike and pedestrian plans
5.3		On-going bike-pedstrian programs monitoring of strategies & effectiveness	On-going bike-pedstrian programs monitoring of strategies & effectiveness	On-going bike-pedstrian programs monitoring of strategies & effectiveness	On-going bike-pedstrian programs monitoring of strategies & effectiveness
6	Short-Range Transit Plan	Short-Range Transit Plan	Short-Range Transit Plan	Short-Range Transit Plan	Short-Range Transit Plan
6.1	On-going transit planning process	On-going transit planning process	On-going transit planning process	On-going transit planning process	On-going transit planning process
6.2	Update of Transit Development Plan (TDP)/Short range transit planning.	Update of Transit Development Plan (TDP)/Short range transit planning.	Update of Transit Development Plan (TDP)/Short range transit planning.	Transit survey	Transit survey
7	Congestion Management Process (CMS/CMP)	Congestion Management Process (CMS/CMP)	Congestion Management Process (CMS/CMP)	Congestion Management Process (CMS/CMP)	Congestion Management Process (CMS/CMP)
7.1	On-going update and enhancement of the MPO Mobility Report Card (MRC)	MRC report and AGOL	On-going update and enhancement of the MPO Mobility Report Card (MRC)	MRC report and AGOL	On-going update and enhancement of the MPO Mobility Report Card (MRC)
7.2	On-going CMP monitoring of strategies & effectiveness	On-going CMP monitoring of strategies & effectiveness	On-going CMP monitoring of strategies & effectiveness	On-going CMP monitoring of strategies & effectiveness	On-going CMP monitoring of strategies & effectiveness
7.3		Update of area of influence and congestion networks. Application & reevaluation of definition of congestion		Update of area of influence and congestion networks. Application & reevaluation of definition of congestion	
7.4		Transportation system definition (modes & networks)		Transportation system definition (modes & networks)	
7.5		Transportation system definition (modes & networks)		Transportation system definition (modes & networks)	
7.6	Data collection & analysis for MPO CMS Update	Data collection & analysis for MPO CMS Update	Data collection & analysis for MPO CMS Update	Data collection & analysis for MPO CMS Update	Data collection & analysis for MPO CMS Update
7.7	Update Performance monitoring Plan	Develop Performance monitoring Plan	Update Performance monitoring Plan	Develop Performance monitoring Plan	Develop Performance monitoring Plan
7.8	update Identification and evaluation of strategies.	Identification and evaluation of strategies.	update Identification and evaluation of strategies.	Identification and evaluation of strategies.	Identification and evaluation of strategies continues
7.9		Action plan for monitoring effectiveness of strategies		Action plan for monitoring effectiveness of strategies	
7.10		Public comment and adoption of the MPO CMS		Public comment and adoption of the MPO CMS	Public comment and adoption of the MPO CMS
8	TIP	TIP	TIP	TIP	TIP
	BOT Approves 2018-2027 STIP	Finalize SPOT 5 Point Assignment	BOT Approves 2020-2029 STIP	Develop final draft 2022-2031 MTIP. TIP conformity determination	Develop final draft 2020-2026 MTIP. TIP conformity determination
	Update TIP ranking & project prioritization methodology as necessary	One-on-one discussion between the MPO and NCDOT	Update TIP ranking & project prioritization methodology as necessary	One-on-one discussion between the MPO and NCDOT	BOT Approves 2020-2026 STIP
	Develop & submit TIP Project Priority List for SPOT5 (2020-2029 TIP)	Analysis of the draft 2020-2029 STIP local supplement	Develop & submit TIP Project Priority List for SPOT-6 (2022-2031 TIP)	Analysis of the draft 2031-2031 STIP local supplement	Develop & submit TIP Project Priority List for SPOT-7 (2024-2033 TIP)
	Review project revisions, modification and new submissions and prepare comparative analysis Generate data associated with P5 online submission	Development 2020-2029 MTIP . Public input and comment process.	Review project revisions, modification and new submissions and prepare comparative analysis Generate data associated with P6 online submission	Development 2022-2031 MTIP . Public input and comment process.	Review project revisions, modification and new submissions and prepare comparative analysis Generate data associated with P7 online submission

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July 1, 2018 to June 30, 2023**

	1	2	3	4	5
FY	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Period	2018-19	2019-20	2020-21	2021-22	2022-23
	July 1, 2018-June 30, 2019	July 1, 2019-June 30, 2020	July 1, 2020-June 30, 2021	July 1, 2021-June 30, 2022	July 1, 2022-June 30, 2023
	SPOT-5 Prioritization	Develop draft 2020-2029 MTIP.	SPOT6 Prioritization	One-on-one discussion between the MPO and NCDOT	SPOT-7 Prioritization
	MPO SPOT 5 points assignment		MPO SPOT 6 points assignment	Development 2020-2026 MTIP . Public input and comment process.	MPO SPOT-7 points assignment
	Develop final draft 2018-2027 MTIP.				
	Process MTIP amendments as needed	Process MTIP amendments as needed	Process MTIP amendments as needed	Process MTIP amendments as needed	Process MTIP amendments as needed
	Annual TIP project Listing	Annual TIP project Listing	Annual TIP project Listing	Annual TIP project Listing	Annual TIP project Listing
9	Title VI/Civil Rights/EJ	Title VI/Civil Rights/EJ	Title VI/Civil Rights/EJ	Title VI/Civil Rights/EJ	Title VI/Civil Rights/EJ
	Continuous update of Title VI programs, including Assurance Certification, EJ and LEP	Continuous update of Title VI programs, including Assurance Certification, EJ and LEP. Evaluate effectiveness of programs and outreach efforts	Continuous update of Title VI programs, including Assurance Certification, EJ and LEP. Evaluate effectiveness of programs and outreach efforts	Update EJ Plan and LEP program, and evaluate effectiveness of program and outreach efforts	Continuous update of Title VI programs, including Assurance Certification, EJ and LEP. Evaluate effectiveness of programs and outreach efforts
	Update EJ and LEP outreach mailing list	Update EJ and LEP outreach mailing list	Update EJ and LEP outreach mailing list	Update EJ and LEP outreach mailing list	Update EJ and LEP outreach mailing list
	Administer and monitor MPO EJ/LEP program	Administer and monitor MPO EJ/LEP program	Administer and monitor MPO EJ/LEP program	Administer and monitor MPO EJ/LEP program	Administer and monitor MPO EJ/LEP program
	Evaluate and Perform EJ analysis, impacts as needed	Evaluate and Perform EJ analysis, impacts as needed	Evaluate and Perform EJ analysis, impacts as needed	Evaluate and Perform EJ analysis, impacts as needed	Evaluate and Perform EJ analysis, impacts as needed
	Update EL/LEP demographic profile and database	Update EL/LEP demographic profile and database	Update EL/LEP demographic profile and database	Update EL/LEP demographic profile and database	Update EL/LEP demographic profile and database
10	Public Involvement/Participation Plan (PIP/PPP)	Public Involvement/Participation Plan (PIP/PPP)	Public Involvement/Participation Plan (PIP/PPP)	Public Involvement/Participation Plan (PIP/PPP)	Public Involvement/Participation Plan (PIP/PPP)
	Review and evaluate effectiveness of MPO Public Involvement Process	Review and evaluate effectiveness of MPO Public Involvement Process	Review and evaluate effectiveness of MPO Public Involvement Process	Review and evaluate effectiveness of MPO Public Involvement Process	Review and evaluate effectiveness of MPO Public Involvement Process
	Social media in mpo public outreach and input process	Social media in mpo public outreach and input process	Social media in mpo public outreach and input process	Social media in mpo public outreach and input process	Social media in mpo public outreach and input process
	On-going MPO website update and content management	On-going MPO website update and content management	On-going MPO website update and content management	On-going MPO website update and content management	On-going MPO website update and content management
11	Project Development & Incidental Planning	Project Development & Incidental Planning	Project Development & Incidental Planning	Project Development & Incidental Planning	Project Development & Incidental Planning
	Participation in project development, environmental analysis, NEPA process and studies	Participation in project development, environmental analysis, NEPA process and studies	Participation in project development, environmental analysis, NEPA process and studies	Participation in project development, environmental analysis, NEPA process and studies	Participation in project development, environmental analysis, NEPA process and studies
	Pre-TIP project planning and coordination	Pre-TIP project planning and coordination	Pre-TIP project planning and coordination	Pre-TIP project planning and coordination	Pre-TIP project planning and coordination
12	Land-use & Transportation integration	Land-use & Transportation integration	Land-use & Transportation integration	Land-use & Transportation integration	Land-use & Transportation integration
	Community Viz and UrbanSim implementation, maintenance and update	Community Viz and UrbanSim implementation, maintenance and update	Community Viz and UrbanSim implementation, maintenance and update	Community Viz and UrbanSim implementation, maintenance and update	Community Viz and UrbanSim implementation, maintenance and update
	Monitoring of land use development and consistency check with SE forecasts	Monitoring of land use development and consistency check with SE forecasts	Monitoring of land use development and consistency check with SE forecasts	Monitoring of land use development and consistency check with SE forecasts	Monitoring of land use development and consistency check with SE forecasts
13	Intelligent Transportation System Planning	Intelligent Transportation System Planning	Intelligent Transportation System Planning	Intelligent Transportation System Planning	Intelligent Transportation System Planning
	Turbo Architecture, IDAS and DynaSmart enhancement, update and maintenance	Turbo Architecture, IDAS and DynaSmart enhancement, update and maintenance	Turbo Architecture, IDAS and DynaSmart enhancement, update and maintenance	Turbo Architecture, IDAS and DynaSmart enhancement, update and maintenance	Turbo Architecture, IDAS and DynaSmart enhancement, update and maintenance
	ITS planning, operation and monitoring	ITS planning, operation and monitoring	ITS planning, operation and monitoring	ITS planning, operation and monitoring	ITS planning, operation and monitoring
14	Safety Planning	Safety Planning	Safety Planning	Safety Planning	Safety Planning

**DCHC MPO 5-Year Unified Planning Work Program
July 1, 2018 to June 30, 2023**

	1	2	3	4	5
FY	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Period	2018-19	2019-20	2020-21	2021-22	2022-23
	July 1, 2018-June 30, 2019	July 1, 2019-June 30, 2020	July 1, 2020-June 30, 2021	July 1, 2021-June 30, 2022	July 1, 2022-June 30, 2023
	Safety data collection and analysis, and coordination with other agencies.	Safety data collection and analysis, and coordination with other agencies.	Safety data collection and analysis, and coordination with other agencies.	Safety data collection and analysis, and coordination with other agencies.	Safety data collection and analysis, and coordination with other agencies.
14.1	Development of the MPO Safety plan to reflect State Highway Safety initiatives	Update MPO Safety plan and incorporate features of Vision Plan.	Update MPO Safety plan and incorporate features of Vision Plan.	Update MPO Safety plan and incorporate features of Vision Plan.	Update MPO Safety plan and incorporate features of Vision Plan.
	Ongoing integration of safety in the MPO transportation planning process	Ongoing integration of safety in the MPO transportation planning process	Ongoing integration of safety in the MPO transportation planning process	Ongoing integration of safety in the MPO transportation planning process	Ongoing integration of safety in the MPO transportation planning process
15	Freight Planning	Freight Planning	Freight Planning	Freight Planning	Freight Planning
	on-going freight planning and coordination	on-going freight planning and coordination	on-going freight planning and coordination	on-going freight planning and coordination	on-going freight planning and coordination
	Outreach with freight and logistic companies	Outreach with freight and logistic companies	Outreach with freight and logistic companies	Outreach with freight and logistic companies	Outreach with freight and logistic companies
	Continuous update of truck circulation maps	Continuous update of truck circulation maps	Continuous update of truck circulation maps	Continuous update of truck circulation maps	Continuous update of truck circulation maps
16	Transportation System Preservation	Transportation System Preservation	Transportation System Preservation	Transportation System Preservation	Transportation System Preservation
	Transportation System Preservation planning and operation	Transportation System Preservation planning and operation	Transportation System Preservation planning and operation	Transportation System Preservation planning and operation	Transportation System Preservation planning and operation
	TDM and TSM (ITS) planning, programming, implementation, monitoring and evaluation	TDM and TSM (ITS) planning, programming, implementation, monitoring and evaluation	TDM and TSM (ITS) planning, programming, implementation, monitoring and evaluation	TDM and TSM (ITS) planning, programming, implementation, monitoring and evaluation	TDM and TSM (ITS) planning, programming, implementation, monitoring and evaluation
17	GIS Development	GIS Development	GIS Development	GIS Development	GIS Development
	<i>Maintain Databases</i>	<i>Maintain Databases</i>	<i>Maintain Databases</i>	<i>Maintain Databases</i>	<i>Maintain Databases</i>
	Maintain Databases	Acquire and Maintain Data; maintain hardware and software	Acquire and Maintain Data; maintain hardware and software	Acquire and Maintain Data; maintain hardware and software	Acquire and Maintain Data; maintain hardware and software
	Maintenance of MPO GIS and data layers	Maintenance of MPO GIS and data layers	Maintenance of MPO GIS and data layers	Maintenance of MPO GIS and data layers	Maintenance of MPO GIS and data layers
	Coordination with resource agencies and linkages of transportation data with environmental data	Coordination with resource agencies and linkages of transportation data with environmental data	Coordination with resource agencies and linkages of transportation data with environmental data	Coordination with resource agencies and linkages of transportation data with environmental data	Coordination with resource agencies and linkages of transportation data with environmental data
	<i>Update green print maps</i>	<i>Update green print maps</i>	<i>Update green print maps</i>	<i>Update green print maps</i>	<i>Update green print maps</i>
	Data development and update. Maintenance and update of spatial geodatabase applications and AGOL.	Data development and update. Maintenance and update of spatial geodatabase applications and AGOL.	Data development and update. Maintenance and update of spatial geodatabase applications and AGOL.	Data development and update. Maintenance and update of spatial geodatabase applications and AGOL.	Data development and update. Maintenance and update of spatial geodatabase applications and AGOL.
18	Management and Operations	Management and Operations	Management and Operations	Management and Operations	Management and Operations
	Management and Operations of the MPO 3-C process	Management and Operations of the MPO 3-C process	Management and Operations of the MPO 3-C process	Management and Operations of the MPO 3-C process	Management and Operations of the MPO 3-C process
	Board directives	Board directives	Board directives	Board directives	Board directives
19	Special Studies/State & Regional Planning	Special Studies/State & Regional Planning	Special Studies/State & Regional Planning	Special Studies/State & Regional Planning	Special Studies/State & Regional Planning
	Continuous parking study update	Continuous parking survey update	Continuous parking survey update	Continuous parking survey update	Continuous parking survey update

Town of Carrboro

	Task Description	STBGP		Sec. 104(f)		Section 5303			Section 5307			Task Funding Summary				
		133(b)(3)(7)		PL		Highway/Transit			Transit			Local	NCDOT	Federal	Total	
		Local	FHWA	Local	FHWA	Local	NCDOT	FTA	Local	NCDOT	FTA					
		20%	80%	20%	80%	10%	10%	80%	10%	10%	80%					
II-A	Surveillance of Change															
	1 Traffic Volume Counts	\$102	\$408	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$102	\$0	\$408	\$510	
	2 Vehicle Miles of Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	3 Street System Changes	\$169	\$676	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$169	\$0	\$676	\$845	
	4 Traffic Accidents	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	5 Transit System Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	6 Dwelling Unit, Pop. & Emp. Change	\$135	\$540	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$135	\$0	\$540	\$675	
	7 Air Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	8 Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	9 Travel Time Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	10 Mapping	\$884	\$3,536	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$884	\$0	\$3,536	\$4,420	
	11 Central Area Parking Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	12 Bike & Ped. Facilities Inventory	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200	\$0	\$800	\$1,000	
	13 Bike & Ped. Counts	\$145	\$580	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$145	\$0	\$580	\$725	
		\$0	\$0													
II-B	Long Range Transp. Plan (MTP)	\$0	\$0													
	1 Collection of Base Year Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	2 Collection of Network Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	3 Travel Model Updates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	4 Travel Surveys	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	5 Forecast of Data to Horizon year	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	6 Community Goals & Objectives	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	7 Forecast of Future Travel Patterns	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	8 Capacity Deficiency Analysis	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	9 Highway Element of th MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	10 Transit Element of the MTP	\$170	\$680	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$170	\$0	\$680	\$850	
	11 Bicycle & Ped. Element of the MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	12 Airport/Air Travel Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	13 Collector Street Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	14 Rail, Water or other mode of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	15 Freight Movement/Mobility Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	16 Financial Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	17 Congestion Management Strategies	\$215	\$860	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$215	\$0	\$860	\$1,075	
	18 Air Qual. Planning/Conformity Anal.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
		\$0	\$0													
II-C	Short Range Transit Planning	\$0	\$0													
	1 Short Range Transit Planning	\$355	\$1,418	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$355	\$0	\$1,418	\$1,773	
		\$0	\$0									\$0	\$0	\$0	\$0	
III-A	Planning Work Program	\$0	\$0													
	Planning Work Program	\$352	\$1,408	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$352	\$0	\$1,408	\$1,760	
		\$0	\$0									\$0	\$0	\$0	\$0	
III-B	Transp. Improvement Plan	\$0	\$0													
	TIP	\$691	\$2,765	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$691	\$0	\$2,765	\$3,456	
		\$0	\$0									\$0	\$0			
III-C	Cvl Rgts. Cmp./Otr. Reg. Reqs.	\$0	\$0													
	1 Title VI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	2 Environmental Justice	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	3 Minority Business Enterprise	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	4 Planning for the Elderly & Disabled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	5 Safety/Drug Control Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	6 Public Involvement	\$360	\$1,440	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$360	\$0	\$1,440	\$1,800	
	7 Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
		\$0	\$0													
III-D	Incidental Plng./Project Dev.	\$0	\$0													
	1 Transportation Enhancement Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	2 Enviro. Analysis & Pre-TIP Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	3 Special Studies	\$1,100	\$4,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,100	\$0	\$4,400	\$5,500	
	4 Regional or Statewide Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
		\$0	\$0													
III-E	Management & Operations	\$0	\$0													
	1 Management & Operations	\$850	\$3,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$850	\$0	\$3,400	\$4,250	
Totals		\$5,728	\$22,911	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,728	\$0	\$22,911	\$28,639	

**TOWN OF CARRBORO
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FY 2019 UPWP**

II-A-1: Traffic Volume Counts

The Town will provide local traffic count data, collected for various local planning purposes including, traffic impact studies, development review and other studies conducted, or for MPO activities including the Congestion Management Process and Mobility Report Cards. The Town will also conduct additional traffic counts, as needed, for other plans or studies that relate to traffic congestion or safety.

Objectives

To collect local traffic count data relevant to the CMP, TRM model analysis, and-or local traffic studies.

Previous Work

In FY 2012, the Town submitted traffic count data for the CMP. The Town has collected traffic data for traffic calming studies and Traffic Impact Analyses for numerous development projects. Three Mobility Report Cards (2003, 2005 and the DCHC-MPO in 2014) report vehicular traffic and congestion, as well as pedestrian and bicycle traffic.

Proposed Activities

1. Collect traffic data using Town counters and manual bike-ped counting
2. Provide traffic data and reports as needed for the previously mentioned MPO activities
3. Work with LPA staff on determining best traffic count locations for MRC and other studies
4. Continue to collect traffic data relating to local traffic calming requests

Products

1. Traffic volume data from as recent a year as possible

Relationship to Other Plans and MPO Activities

Data will be used for the CMP and MRC. Counts may be helpful in determining focus areas for TDM strategies, the Triangle Regional Model (TRM), and the Town's conceptual Slow Zone plan.

Proposed Budget and Level of Effort

50 percent of the work to be completed by the Transportation Planner; 50 percent of the work to be completed by the Planning Administrator; Staff hours: 12 hours

Task II-A-3: Street System Mileage

Town staff will report on street system changes from the last reporting year and provide data to the LPA, including intersection geometry, including data relating to maintenance from Powell Bill improvements. The Town shall also include information from NCDOT Division 7 relating to improvements to the state highway system, as appropriate, as well as improvements on the local street system.

Objectives

To maintain a current shapefile of Carrboro's street system and provide data to the LPA.

Previous Work

The Town will have submitted a current shapefile of the street system to the LPA.

Proposed Activities

1. Track changes to Carrboro's street system
2. Maintain shapefile of current street system
3. Submit data to LPA with 4th quarter reports

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Products

Provide the municipality's street system data to the LPA as part the 4th quarter progress report.

Relationship to other plans and MPO activities

Data can be used for CMP, MRC and regional TRM, as well as for various Town studies.

Proposed budget and level of effort

66 percent of work to be completed by GIS Analyst; 33 percent of work to be completed by Planning Administrator; Staff hours: 18 hours

Task II-A-6: Dwelling Units, Population & Employment Changes

The Town will continue its collection of monthly development review activities, building permit and Certificate of Occupancy (CO) data and will submit regular reports of data to the LPA along with summarized data in quarterly progress reports.

Objectives

To review dwelling unit, population, and employment data as part of the long range planning efforts, and to support the Travel Behavior Survey (TBS) of the Triangle Regional Model (TRM) processes.

Previous Work

In FY 2012 and again in 2016, the Town submitted place type and development status information to the LPA and reviewed population and employment control totals for use in the 2040 and 2045 MTP.

Proposed Activities

1. Review data generated by the TBS household survey
2. Collect monthly development review activities, building permits, and COs and submit to LPA

Products

1. Tabulation of development review proposals, building permits, and Certificate of Occupancies
2. Submit monthly data to the LPA and in summarize data in the quarterly progress report

Relationship to Other Plans and MPO Activities

Relates to 2045 MTP, TRM, MRC, processes and provides regular data for long term planning efforts.

Proposed Budget and Level of Effort

50 percent of work to be completed by Planning Director; 50 percent of work to be completed by GIS Analyst; Staff hours: 12 hours

Task II-A-10: Mapping

Town staff will update geo-spatial mapping for SE data, development proposals/permits/COs, bike-pedestrian networks and facilities, highway and transit elements of the 2045 MTP, etc.

Objectives

To support mapping activities for the 2045 MTP and generate maps as needed for other MPO or Town transportation planning tasks.

Previous Work

The Town provided local socioeconomic data for the 2040 and 2045 MTPs. Reviewed and modified CommunityViz 2040 and 2045 MTP place type and development status categories. The Town edited

TOWN OF CARRBORO
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employment shapefile in Employment Analyst in preparation for the 2045 MTP, analyzed residential and employment density in the vicinity of bus stops for the Orange County Transit Plan, provided downtown Carrboro parking inventory maps, and regularly updated transportation shapefiles based on new developments and completed projects.

Proposed Activities

1. Review maps made for the MTP, MRC, and other MPO-related activities
2. Provide any data or maps as requested by the LPA
3. Maintain current GIS data for all transportation planning activities in Carrboro
4. Generate the following GIS shape files, SE data, development review/proposals, permits, COs, bike-pedestrian networks, data collection locations base maps, etc.
5. Update of geodatabase of transit routes and stops, highway element of the MTP, bike-pedestrian element of the MTP, etc.
6. Generate the following GIS shape files, SE data, development review/proposals, permits, COs, bike-pedestrian networks and facilities, data collection location base maps, etc.
7. Update of geodatabase of transit routes and stops, highway element of the MTP, bike-pedestrian element of the MTP, etc.

Relationship to Other Plans and MPO Activities

2045 MTP, MRC, Carrboro Parking Plan, Orange Co. Transit, and the Comprehensive Bicycle Transportation Plan

Proposed Budget and Level of Effort

80 percent of work to be completed by the GIS Analyst; 20 percent of work to be completed by Transportation Planner; Staff hours: 100 hours

Task II-A-12: Bike and Pedestrian facilities Inventory

The Town will continue to provide bicycle and pedestrian traffic information for local and regional planning processes as needed. The Town will continue to conduct bike and pedestrian counts as part of the traffic calming process and Safe Routes to School program.

Objectives

To collect continuous, reliable pedestrian and bicycle volume data that can be averaged over time and disaggregated for independent variables such as month, time, and weather. The Town will also supply bicycle and pedestrian travel data for regional planning processes.

Previous Work

The Town has collected bicycle and pedestrian data for a number of planning processes, including the 2009 Comprehensive Bicycle Transportation Plan and regional Mobility Report Card. The Town participated in a pilot program with the MPO/ITRE that installed pedestrian and bicycle counters on the Libba Cotten Bikeway and on Old NC 86, just north of the intersection with Old Fayetteville Road, and assumed control of these counters in late 2016.

Proposed Activities

1. Prepare updated bike-pedestrian GIS maps and attributes (including trails)
2. Update geodatabase of bike-pedestrian inventory
3. Collect bike-pedestrian facility information for SPOT, CMAQ/TAP funding
4. Review data collected by bike-ped counters previously installed by ITRE/MPO, and use counts for Town analysis and MPO data collection

**TOWN OF CARRBORO
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5. Continue to conduct bicycle and pedestrian counts
6. Work with LPA staff to coordinate additional data collection efforts

Products

Spreadsheets or tally sheets with bicycle and pedestrian counts

Relationship to Other Plans and MPO Activities

2045 MTP and Mobility Report Card; the Town anticipates working with a consultant to prepare an updated comprehensive bicycle plan (see special studies).

Proposed Budget and Level of Effort

50 percent of work to be completed by Transportation Planner; 25 percent of the work to be completed by the Planning Administrator; 25 percent of work to be completed by GIS Analyst; Staff hours: 24 hours

II-A-13 Bicycle and Pedestrian Counts

The Town will contribute existing bicycle and pedestrian traffic information for local and regional planning processes as needed. The Town will continue to conduct bike and pedestrian counts as part of the traffic calming process and Safe Routes to School program.

Objectives

To collect continuous, reliable pedestrian and bicycle volume data that can be averaged over time and disaggregated for independent variables such as month, time, and weather. The Town will also supply bicycle and pedestrian travel data for regional planning processes.

Previous Work

The Town has collected bicycle and pedestrian data for a number of planning processes, including the 2009 Comprehensive Bicycle Transportation Plan and regional Mobility Report Card. The Town participated in a pilot program with the MPO/ITRE that installed pedestrian and bicycle counters on the Libba Cotten Bikeway and on Old NC 86, just north of the intersection with Old Fayetteville Road, and assumed control of these counters in late 2016.

Proposed Activities

1. Review data collected by bike-ped counters previously installed by ITRE/MPO, and use counts for Town analysis and MPO data collection
2. Continue to conduct bicycle and pedestrian counts
3. Work with LPA staff to coordinate additional data collection efforts

Products

Spreadsheets or tally sheets with bicycle and pedestrian counts

Relationship to Other Plans and MPO Activities

2045 MTP, Mobility Report Card, and the anticipated updated comprehensive bike plan.

Proposed Budget and Level of Effort

66 percent of work to be completed by Transportation Planner; 33 percent of the work to be completed by the Planning Administrator; Staff hours: 18 hours

Task II-B-10: Transit Element of the MTP

Support evaluation of transit element of the 2045 MTP, including DO-LRT, Commuter rail and BRT.

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Objectives

To provide input and evaluate the transit element of the 2045 MTP and participate in regional planning efforts related to the DO-LRT, Commuter rail and Bus Rapid Transit.

Previous Work

Town staff has participated in regional planning efforts related to the DO-LRT, Chapel Hill Bus Rapid Transit, Orange County Transit Plan, and other transit projects.

Proposed Activities

1. Town staff will assist in the evaluation of transit preferred options, update of the 2045 transit tables and attributes, and geodatabase of transit preferred option, and final 2045 projects

Products

1. Evaluation of transit preferred options
2. Update 2045 transit tables and attributes
3. Update of geodatabase of transit preferred option and final 2045 projects

Relationship to Other Plans and MPO Activities

2045 MTP, CTP, Orange County Bus and Rail Investment Plan

Proposed Budget and Level of Effort

50 percent of work to be completed by Transportation Planner; 50 percent of work to be completed by Planning Administrator; Staff hours: 20 hours

Task II-B-17: CMP and Mobility Report (MRC)

The MPO is maintaining a Congestion Management Process (CMP) to address congestion within the metropolitan area boundary. The Town will contribute planning resources to this process as well as the Mobility Report Card and continued analysis of downtown Carrboro congestion.

Objectives

To contribute to the ongoing development of the CMP, MRC, and continue research and analysis on downtown Carrboro traffic level of service (LOS).

Previous Work

The Town has contributed to the CMP and previous Mobility Report Cards. The Town has also conducted a number of local studies related to traffic and congestion within Town boundaries. Town staff has also worked on Transportation Demand Management efforts as a strategy for decreasing congestion.

Proposed Activities

1. Evaluation of CMP and MRC networks
2. Review of products and analyses
3. Provide GIS shape files

Products

1. GIS shapefile of sub-areas
2. Local and transit data as needed

TOWN OF CARRBORO
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Relationship to Other Plans and MPO Activities

CMP, 2045 MTP, Mobility Report Card, TDM and updates to Town Parking Plan

Proposed Budget and Level of Effort

40 percent of work to be completed by Transportation Planner ; 20 percent of work to be completed by GIS Analyst; 40 percent of work to be completed by Planning Administrator; Staff hours: 25 hours

II-C-1 Short Range Transit Planning

The Town will participate in short-range transit planning for the region, with a focus on the Chapel Hill-Carrboro area. Through the Transit Partners Committee, the Town will provide input on Chapel Hill Transit planning initiatives, including the Bus Rapid Transit project and the completion of the short range transit plan. The Town will coordinate with Orange County, GoTriangle, and the MPO on the update and implementation of the Orange County Transit Plan for Orange County and the DO-LRT. This task may include the development of a 5-year need based Budget and Connectivity plan.

Objectives

To ensure that Carrboro plays a key role in CHT planning, capital investment, and operations by continuing to work with Chapel Hill Transit on new initiatives, short range planning, public involvement, and troubleshooting. The Town will also assist as needed in implementation of the Orange County Transit Plan for Orange County and the DO-LRT, coordinating with Orange County, GoTriangle, and the MPO.

Previous Work

Town of Carrboro elected officials, advisory board members, and staff attend CHT Partners Committee meetings, N-S Corridor Study meetings and the short range transit plan meetings. The Board of Aldermen endorsed the Orange County Transit Plan in 2017. The Town has provided input into initiatives such as the Comprehensive Operations Analysis, Eubanks Road Park-and-Ride Feasibility Study, and others. The Town worked with GoTriangle to begin peak-hour bus service from Carrboro to Durham.

Proposed Activities

1. Continue to participate in Transit Partners Committee, and staff working groups
2. Attend staff working group meetings to implement the Orange County Transit Plan, including the development of service improvements and capital projects as part of adopted transit plans, including providing information on transit access and service priorities
3. Review on-board transit survey information as it pertains to Carrboro and Carrboro ridership as part of the short-range and long-range planning efforts
4. Work with LPA staff on the 5-year plan

Products

1. 5-Year plan
2. System performance report
3. GIS shape files of routes and proposed changes
4. Implementation and construction of small capital infrastructure projects for the Town of Carrboro using Orange County Transit Plan funds as identified in the adopted plan.

Relationship to Other Plans and MPO Activities

OC Transit Plan, 2045 MTP, CHT N-S Corridor Bus Rapid Transit, and short range transit plan.

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Proposed Budget and Level of Effort

35 percent of work to be completed by Transportation Planner; 65 percent of work to be completed by Planning Administrator; Staff hours: 40 hours

Task III-A: UPWP

Development of the FY20UPWP, process amendment of the FY19 UPWP as necessary, prepares quarterly invoice and reimbursement requests. The Town will administer the FY 2019 UPWP, and prepare and process amendments as needed. Working with MPO staff, Town staff will identify transportation planning emphasis areas for the subsequent fiscal year and prepare the FY 2020 UPWP. Town staff will participate in UPWP oversight meetings with MPO staff and staff from other MPO member jurisdictions.

Objectives

To track and report on Carrboro's 2019 UPWP activities, and process amendments to the UPWP if necessary. The Town will submit Carrboro's portion of the 2019 UPWP to the MPO and participate in oversight of the UPWP process.

Previous Work

Town staff has prepared UPWPs each year and tracked completion of tasks with quarterly progress reports. Progress reports have made clear how much funding remains for tasks in the fiscal year, guiding whether or not amendments are necessary. Town staff has also participated in LPA oversight meetings.

Proposed Activities

1. Complete quarterly reports for the 2019 UPWP
2. Complete amendment spreadsheets as needed
3. Prepare Carrboro's 2020 UPWP documents and budget
4. Attend LPA oversight meetings and review documents

Products

1. Development of draft and final FY20 UPWP
2. Quarterly invoices and reports
3. Amendment of UPWP as necessary
4. Transmittal of documentation, work products/deliverable highlighted elsewhere to the LPA

Relationship to Other Plans and MPO Activities

Required by federal law, the UPWP is the mechanism for regional transportation planning and coordination. It allocates a portion of STP-DA and transit funding for planning activities.

Proposed Budget and Level of Effort

35 percent of work to be completed by Transportation Planner; 65 percent of work to be completed by Planning Administrator; Staff hours: 40 hours

Task III-B: TIP/SPOT

Assist with MTIP development and SPOT-5 activities. Staff will continue to implement planning, design, and construction of TIP projects. Staff will assist with MTIP development and SPOT 5.0 activities.

Objectives

To facilitate timely progress on TIP projects and process amendments when necessary. The Town will continue to participate in review and coordination regarding the SPOT 5.0 prioritization process.

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Previous Work

The Wilson Park Multi-use Path (U-4726-DF) is a recently-completed TIP project, and the Homestead-Chapel Hill High School Multi-Use Path (U-4726-DE) is expected to be finished in 2018. The installation of Bicycle Loop Detectors (U-4726-DF) in the downtown and the Rogers Road Sidewalk (U-4726-DD) should also be completed in 2018. Other projects currently underway include Morgan Creek Greenway Phases 1 and 2 (EL-4828) and Jones Creek Greenway (C-5181). Work on the South Greensboro Street sidewalk (C-5650) should also be underway.

Proposed Activities

1. Continue implementation of projects currently underway
2. Process MTIP amendments as necessary
3. Assist in SPOT 5.0 process

Products

1. 2018-2027 MTIP local agencies' supplement
2. MTIP amendments
3. Summary of public involvement activities
4. STP-DA/TAP project delivery status
5. SPOT-5 local prioritization and points assignments
6. STP-DA obligated projects

Relationship to Other Plans and MPO Activities

2017-2028 TIP, 2045 MTP, Orange County Transit Plan, CMAQ funding.

Proposed Budget and Level of Effort

15 percent of work to be completed by Transportation Planner; 85 percent of work to be completed by Planning Administrator; Staff hours: 73.5 hours

Task III-C-6: Public Involvement

The Town will continue to provide for an open exchange of information and ideas between the public and transportation decision-makers. The Town will work to increase public participation in transportation planning issues at the local and regional (MPO) levels.

Objectives

To participate in and contribute to MPO-related meetings and adhere to the goals and tasks laid out in the Unified Planning Work Program. Town staff will ensure that elected officials have adequate information to make informed decisions on local and regional transportation issues. Town staff will also ensure the local transportation advisory board has the information it needs to develop sound recommendations on local and regional transportation issues. To improve staff efficiency and knowledge through training sessions and educational materials.

Previous Work

The Town will continue its public activities in FY 2019, similar to proposed activities described below, and will include increasing use of social media for notice of local matters on transportation matters and of MPO meetings and input opportunities. Public involvement occurs for most development review processes, already.

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Proposed Activities

1. Participation in MPO development of public outreach planning, databases, and evaluation
2. Assistance in MPO public input opportunities for the draft 2045 LRTP, MRC, and Orange County Transit Plan.
3. Other public input opportunities as they arise

Products

1. Staff reports for Board of Aldermen and advisory board meetings
2. Update public involvement mailing list (and email address).
3. Summary of public involvement activities, including means of advertisement, attendance, and response to comments.
4. Report on the analysis of the effectiveness of the local agencies' public involvement.
5. ADA checklist and activities.

Relationship to Other Plans and MPO Activities

This task supports all plans and MPO activities.

The Town will continue to provide for an open exchange of information and ideas between the public and transportation decision-makers. The Town will work to increase public participation in transportation planning issues at the local and regional (MPO) levels.

Proposed Budget and Level of Effort

25 percent of work to be completed by Transportation Planner; 75 percent of work to be completed by Planning Administrator; Staff hours: 40

III-D-3 Special Studies

Town staff will continue to conduct special studies related to local transportation issues.

Objectives

To update the bike plan for the Town, which will reflect new technologies and best practices since 2009. To assist MPO and other local staff in the oversight of the completion of the NC 54 Corridor Study, and to apply the data and recommendations from the corridor study to identify future infrastructure projects to submit for P6.0. To use the recommendations from the Estes Road corridor study toward the preliminary design for bike-ped improvements on Estes Drive. To submit an application to the League of American Bicyclists for consideration as a gold level bicycle friendly community.

Previous Work

The Town has engaged in transportation-related studies such as the Comprehensive Bicycle Master Plan, the Bolin and Morgan Creek Greenway Conceptual Master Plans, the Safe Routes to School Action Plan, the Oak-Poplar Neighborhood Traffic Circulation Study, the West Main Street Road Diet Study, and the Downtown Carrboro Parking Study. The Town assisted in writing and releasing a Request for Information for the NC 54 West Corridor Study in 2016.

Proposed Activities

1. Finish the bike plan update
2. Apply for bicycle friendly community gold status
3. Participation in the oversight of the NC 54 West Corridor Study, and a corridor study of Estes Drive (funded by the Orange County Transit Plan)
4. Review other Town plans and studies as necessary

**TOWN OF CARRBORO
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Products

1. Updated comprehensive bicycle plan
2. Application for bicycle friendly community status
3. Data for use by MPO
4. Estes Drive Corridor Study

Relationship to Other Plans and MPO Activities

2045 MTP, CMP, 2009 Comprehensive Bicycle Plan

Proposed Budget and Level of Effort

21 percent of work to be completed by Transportation Planner; 63 percent of work to be completed by Planning Administrator; 16 percent of work to be completed by GIS Analyst; Staff hours: 120 hours

Task III-E- Management and Operations

Administrative tasks necessary to maintaining the 3C planning process will be completed.

Objectives

To participate in and contribute to MPO-related meetings and adhere to the goals and tasks laid out in the UPWP. Town staff will ensure that elected officials have adequate information to make informed decisions on local and regional transportation issues. Staff will also ensure the local transportation advisory board has information to develop sound recommendations on local and regional transportation issues. To improve staff efficiency and knowledge through training sessions and educational materials.

Previous Work

Similar to proposed activities described below.

Proposed Activities

1. Attend and participate in MPO Board, TC meetings, and subcommittee meetings
2. Prepare materials and present to the local elected officials related to local and regional transportation planning topics
3. Facilitate local Transportation Advisory Board meetings by creating agendas, minutes, and staff reports
4. Prepare quarterly progress reports/invoices and documenting expenditures for planning work items
5. Staff development through professional training courses, seminars, and conferences Subscriptions to professional publications and professional organizational dues
6. Acquire needed software, books, and other materials

Products

Staff reports for Board of Aldermen and advisory board meetings

Relationship to Other Plans and MPO Activities

This task supports all plans and MPO activities.

Proposed Budget and Level of Effort

50 percent of work to be completed by Transportation Planner; 50 percent of work to be completed by Planning Administrator; Staff hours: 100

Town of Chapel Hill

	Task Description	STBGP 133(b)(3)(7)		Sec. 104(f) PL		Section 5303 Highway/Transit			Section 5307 Transit			Task Funding Summary			
		Local 20%	FHWA 80%	Local 20%	FHWA 80%	Local 10%	NCDOT 10%	FTA 80%	Local 10%	NCDOT 10%	FTA 80%	Local	NCDOT	Federal	Total
II-A	Surveillance of Change														
1	Traffic Volume Counts	\$776	\$3,106	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$776	\$0	\$3,106	\$3,882
2	Vehicle Miles of Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Street System Changes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Traffic Accidents	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Transit System Data	\$0	\$0	\$0	\$0	\$870	\$870	\$6,960	\$0	\$0	\$0	\$870	\$870	\$6,960	\$8,700
6	Dwelling Unit, Pop. & Emp. Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	Air Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Travel Time Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10	Mapping	\$2,157	\$8,628	\$0	\$0	\$3,610	\$3,610	\$28,880	\$0	\$0	\$0	\$5,767	\$3,610	\$37,508	\$46,885
11	Central Area Parking Inventory	\$604	\$2,416	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$604	\$0	\$2,416	\$3,020
12	Bike & Ped. Facilities Inventory	\$1,035	\$4,142	\$0	\$0	\$952	\$952	\$7,616	\$0	\$0	\$0	\$1,987	\$952	\$11,758	\$14,697
13	Bike & Ped. Counts	\$1,035	\$4,142	\$0	\$0	\$656	\$656	\$5,248	\$0	\$0	\$0	\$1,691	\$656	\$9,390	\$11,737
		\$0	\$0			\$0	\$0	\$0							
II-B	Long Range Transp. Plan (MTP)	\$0	\$0			\$0	\$0	\$0							
1	Collection of Base Year Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Collection of Network Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Travel Model Updates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Travel Surveys	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Forecast of Data to Horizon year	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	Community Goals & Objectives	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	Forecast of Future Travel Patterns	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	Capacity Deficiency Analysis	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Highway Element of the MTP	\$1,553	\$6,212	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,553	\$0	\$6,212	\$7,765
10	Transit Element of the MTP	\$0	\$0	\$0	\$0	\$952	\$952	\$7,616	\$0	\$0	\$0	\$952	\$952	\$7,616	\$9,520
11	Bicycle & Ped. Element of the MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12	Airport/Air Travel Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Collector Street Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14	Rail, Water or other mode of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15	Freight Movement/Mobility Plannin	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
16	Financial Planning	\$1,103	\$4,411	\$0	\$0	\$653	\$653	\$5,224	\$0	\$0	\$0	\$1,756	\$653	\$9,635	\$12,044
17	Congestion Management Strategies	\$1,380	\$5,522	\$0	\$0	\$620	\$620	\$4,960	\$0	\$0	\$0	\$2,000	\$620	\$10,482	\$13,102
18	Air Qual. Planning/Conformity Ana	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0			\$0	\$0	\$0							
II-C	Short Range Transit Planning	\$0	\$0			\$0	\$0	\$0							
	Short Range Transit Planning	\$0	\$0	\$0	\$0	\$1,080	\$1,080	\$8,640	\$0	\$0	\$0	\$1,080	\$1,080	\$8,640	\$10,800
		\$0	\$0			\$0	\$0	\$0							
III-A	Planning Work Program	\$0	\$0			\$0	\$0	\$0							
	Planning Work Program	\$1,003	\$4,010	\$0	\$0	\$860	\$860	\$6,880	\$0	\$0	\$0	\$1,863	\$860	\$10,890	\$13,613
		\$0	\$0			\$0	\$0	\$0							
III-B	Transp. Improvement Plan	\$0	\$0			\$0	\$0	\$0							
	TIP	\$3,900	\$15,600	\$0	\$0	\$2,349	\$2,349	\$18,792	\$0	\$0	\$0	\$6,249	\$2,349	\$34,392	\$42,990
		\$0	\$0			\$0	\$0	\$0							
III-C	Cvl Rgts. Cmp./Otr .Reg. Reqs.	\$0	\$0			\$0	\$0	\$0							
1	Title VI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Environmental Justice	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Minority Business Enterprise	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Planning for the Elderly & Disabled	\$0	\$0	\$0	\$0	\$240	\$240	\$1,920	\$0	\$0	\$0	\$240	\$240	\$1,920	\$2,400
5	Safety/Drug Control Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	Public Involvement	\$0	\$0	\$0	\$0	\$488	\$488	\$3,904	\$0	\$0	\$0	\$488	\$488	\$3,904	\$4,880
7	Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0			\$0	\$0	\$0							
III-D	Incidental Plng./Project Dev.	\$0	\$0			\$0	\$0	\$0							
1	Transportation Enhancement Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Enviro. Analysis & Pre-TIP Plng.	\$0	\$0	\$0	\$0	\$336	\$336	\$2,688	\$0	\$0	\$0	\$336	\$336	\$2,688	\$3,360
3	Special Studies	\$1,855	\$7,420	\$0	\$0	\$620	\$620	\$4,960	\$0	\$0	\$0	\$2,475	\$620	\$12,380	\$15,475
4	Regional or Statewide Planning	\$1,855	\$7,420	\$0	\$0	\$1,240	\$1,240	\$9,920	\$0	\$0	\$0	\$3,095	\$1,240	\$17,340	\$21,675
		\$0	\$0			\$0	\$0	\$0							
III-E	Management & Operations	\$0	\$0			\$0	\$0	\$0							
1	Management & Operations	\$1,510	\$6,040	\$0	\$0	\$1,624	\$1,624	\$12,992	\$0	\$0	\$0	\$3,134	\$1,624	\$19,032	\$23,790
	Totals	\$19,767	\$79,068	\$0	\$0	\$17,150	\$17,150	\$137,200	\$0	\$0	\$0	\$36,917	\$17,150	\$216,268	\$270,335

**TOWN OF CHAPEL HILL
TASK DESCRIPTIONS & NARRATIVES
FY 2019 UPWP**

Task II-A-1: Traffic Volume Counts

The Town of Chapel Hill will conduct local traffic counts for planning purposes and provide data to DCHC-MPO as needed. The locations will primarily be located in the downtown and in the Blue Hill (formerly called Ephesus-Fordham) District, and will serve to support local plans and feed into the MPO Congestion Mitigation Process and other regional studies. The Town developed a traffic model for a large sub-area of Town and will work to train staff and expand the model to the entire town.

Objectives

- Collect local traffic counts
- Create plan for expanding model to rest of Town
- Gather traffic counts as components of development TIAs

Previous Work

The Town has routinely collected local traffic counts for local studies/plans, Traffic Impact Analyses related to proposed developments, and previous Mobility Report Cards. The Town recently completed a traffic model for the Blue Hill District and developed mitigation strategies based on the findings from the model.

Proposed Activities

- Collect traffic data at important locations in Town
- Receive training on Transmodeler software
- Create a plan for expanding model to rest of Town
- Provide traffic data and reports to MPO
- Work with LPA staff to determine traffic count locations for MRC and other studies

Products

- Traffic volume data

Relationship to Other Plans and MPO Activities

Data will be used for the CMP, Mobility Report Card and TRM, as well as the Chapel Hill Downtown Parking and Circulation Plan.

Proposed Budget and Level of Effort

Task will be undertaken by Transportation Planners and Division Manager. 90 hours

Task II-A-10: Mapping

The Town of Chapel Hill will continue to undertake tasks associated with mapping and updates to UPWP transportation planning activities such as the CMP, MTP, CTP, TIP, SPOT/ Prioritization, traffic counts, bicycle and pedestrian counts and inventory, transit routes, land use, development review, socio-economic and demographic trends, and environmental factors. The Town mapping and spatial GIS products will support the MPO overall GIS and geo-spatial management system.

Objectives

- Provide maps for use in various MPO planning activities
- Update base maps
- Update and maintain geo-spatial maps
- Provide mapping support for Community Viz, modeling, MTP, CTP, etc.
- Maintain GIS-Online

**TOWN OF CHAPEL HILL
TASK DESCRIPTIONS & NARRATIVES
FY 2019 UPWP**

Previous Work

The Town has prepared mapping for various MPO activities such as the 2040 & 2045 MTP, SPOT processes and resulting STIP projects, traffic/bike-ped count locations, station area planning for future transit stations, and other activities related to local and regional transportation projects.

Proposed Activities

- Collect updated geospatial information
- Create files and maps containing MPO transportation information

Products

- Maps for various MPO planning activities
- Region-wide GIS files
- Geo-spatial mapping
- Update count maps
- ArcGIS Online

Relationship to Other Plans and MPO Activities

GIS data will be used in many MPO activities such as the Triangle Regional Model, Metropolitan Transportation Plan (MTP), Comprehensive Transportation Plan (CTP), the Congestion Management Program (CMP) Mobility Report Card, MTIP development, SPOT, land-use scenarios, environmental layers, and other mappings to support the MPO transportation planning activities.

Proposed Budget and Level of Effort (Staff or Consulting)

Task will be undertaken by Transportation Planners and Division Manager. 250 hours

Task II-A-11: Central Area Parking Inventory

The Town of Chapel Hill will continue to update the model of existing parking in the downtown, which includes number of spaces, fees, and demand/occupancy data. The Town will share this data with the MPO as requested.

Objectives

- Develop and maintain a complete inventory of public and private parking spaces in downtown Chapel Hill

Previous Work

The Town updated the inventory and model as part of the Parking and Circulation Plan for the Downtown.

Proposed Activities

- Update database of downtown parking facilities
- GIS shape files containing parking data

Products

- Shapefile and spreadsheet with parking space count data and attributes

Relationship to Other Plans and MPO Activities

2045 MTP, Chapel Hill Downtown Parking and Circulation Plan

**TOWN OF CHAPEL HILL
TASK DESCRIPTIONS & NARRATIVES
FY 2019 UPWP**

Proposed Budget and Level of Effort

Task will be undertaken by the Transportation Planners and Division Manager. 70 hours

Task II-A-12: Bike & Ped Facilities Inventory

The Town of Chapel Hill will maintain and update the existing inventory of bicycle and pedestrian facilities throughout the community. This inventory will assist in MPO-related projects. It will also allow the Town to identify new bike-ped projects to submit to SPOT and other funding sources.

Objectives

- To provide inventories of bicycle and pedestrian facilities for use in various MPO planning activities
- Update base maps of bicycle and pedestrian networks

Previous Work

The Town has maintained a database of bicycle and pedestrian facilities.

Proposed Activities

- Collect updated data on bicycle and pedestrian facilities
- Monitor new construction and incorporate into base data
- Create files and maps containing MPO transportation information
- Collect Bike-pedestrian facility information for SPOT, CMAQ/TAP funding

Products

- Updated bike-ped GIS maps and attributes
- Updated database

Relationship to Other Plans and MPO Activities

More accurate bicycle and pedestrian networks assisted in the preparation of the 2045 MTP, CTP, Mobility Report Card, and other MPO activities. Development of TIP projects will be improved with accurate bicycle and pedestrian networks.

Proposed Budget and Level of Effort (Staff or Consulting)

Task will be undertaken by Transportation Planners and Division Manager. 120 hours

Task II-A-13: Bike & Ped Counts

The Town of Chapel Hill will conduct ongoing bike and pedestrian counts at various locations in Town. This data will assist in larger MPO data collection efforts, such as the Mobility Report Card. The Town will use the data to evaluate the effectiveness of TIP projects and determine need for future infrastructure.

Objectives

- Ongoing bike and ped counts at permanent locations
- Conduct counts with mobile ped counters
- Online platform for sharing the data publicly

Previous Work

The Town has conducted bike-ped counts at four greenway locations and one roadway for the past several years.

**TOWN OF CHAPEL HILL
TASK DESCRIPTIONS & NARRATIVES
FY 2019 UPWP**

Proposed Activities

- Collect data regularly from counters
- Implement a schedule for the mobile ped counters
- Implement an open data platform for sharing data publicly
- Share data with MPO as needed

Products

- Chapel Hill bike-ped counter online data available for public and MPO use.

Relationship to Other Plans and MPO Activities

The data from the bike and ped counters will aid in numerous Town planning projects and processes, and will be available for MPO-related studies such as the Mobility Report Card, MTPs and CTP 2.0.

Proposed Budget and Level of Effort (Staff or Consulting)

Task will be undertaken by Transportation Planners and Division Manager. 120 hours

Task II-B-9: Highway Element of MTP

The Town of Chapel Hill will assist and support the MPO on the evaluation of highway elements of the 2045 MTP. Different combinations of these roadway widening and construction of new facilities will be analyzed to find the alternative that best meets the MTP's Goals and Objectives and targets, and meets the fiscal constraint requirement. Staff will work to implement highway projects from the adopted 2045 MTP. Staff will participate in the process for developing the template for CTP 2.0. Finally, the Town of Chapel Hill will assist MPO staff in managing the development of the US 15-501 Corridor Study.

Objectives

- Develop a process for developers to request amendment to roadway design plans
- Work with NCDOT to develop designs for highway projects in Chapel Hill
- Design local roadway projects from adopted 2045 MTP
- Assist in development of US 15-501 Corridor Study

Previous Work

- 2040 and 2045 LRTP/MTP
- Travel demand forecast
- Capacity deficiency analysis

Proposed Activities

- Develop key data for roadway performance
- Design local roadways in 2045 MTP
- Work with NCDOT and consultants to design highways in MTP
- Attend meetings and provide data for the US 15-501 Corridor Study

Products

- Key data for highway projects
- Roadway design for Elliott Road Extension
- Designs for NC 54 and US 15-501
- MPO Corridor Study for US 15-501

**TOWN OF CHAPEL HILL
TASK DESCRIPTIONS & NARRATIVES
FY 2019 UPWP**

Relationship to Other Plans and MPO Activities

Projects in the 2045 MTP are also in the CTP. Several of the highway projects in the MTP are in the current STIP and programmed for funding.

Proposed Budget and Level of Effort (Staff or Consulting)

Task will be undertaken by Transportation Planners and Division Manager. 180 hours

Task II-B-16: Financial Planning

The Town of Chapel Hill will participate and assist the MPO and GoTriangle in developing revenue and expenditure assumptions and data related to the Orange and Durham County Transit Plans and other MPO-related finances. Town staff will develop cost estimates and budgets for SPOT submissions, TIP projects, and other projects from the 2045 MTP.

Objectives

- Provide financial information as necessary to the Orange County Transit Plan
- Monitor implementation of the Orange County Transit Plan
- Create, adopt and monitor budgets for TIP projects
- Cost estimates for SPOT submissions

Previous Work

- Financial element of the 2040 & 2045 MTP
- Development of initial Orange County Transit Plan financial element

Proposed Activities

- Coordinate with MPO staff on anticipated regional revenues through 2045
- Monitor financial reporting from GoTriangle for Orange County Transit Plan
- Submit necessary documentation to GoTriangle for OC Transit Plan projects
- Attend quarterly Orange County Transit Plan Staff Working Group meetings
- Budget work for Town and regional TIP projects

Products

- Orange County Transit Plan financial element
- Quarterly invoices and reports for OC Transit Plan projects
- Cost estimates and budgets for TIP and SPOT projects

Relationship to Other Plans and MPO Activities

Financial planning activities support the development of the annual UPWP, the MPO TIP and the development of the 2045 MTP.

Proposed Budget and Level of Effort (Staff)

Task will be undertaken primarily by the Division Manager. 110 hours

Task II-B-17: Congestion Management Strategies

The Town of Chapel Hill works with the MPO to refine the collection and analysis of data related to the ongoing development of congestion management system for the MPO. Using data collected locally and through the efforts of the MPO the Town will prepare information and analysis specific to evaluating congestion in Chapel Hill and develop strategies to address these issues. Town staff also coordinate Transportation Demand Management (TDM) activities for numerous businesses in Chapel Hill as well as

**TOWN OF CHAPEL HILL
TASK DESCRIPTIONS & NARRATIVES
FY 2019 UPWP**

the general public. The Chapel Hill TDM program is part of a larger regional effort that is responsible in part to the MPO.

Objectives

- To identify areas of congestion within the Town based on count information
- Develop strategies to address congested corridors and key intersections
- Prepare biannual report for Town Council highlighting key issues and proposed recommendations
- Coordinate with MPO staff to develop regional CMS
- Promote TDM to Chapel Hill businesses, including Town Hall

Previous Work

- Coordination with MPO for collection of 2013 based data
- Review of draft MPO CMS Report

Proposed Activities

- Coordinate with MPO on collection of data
- Provide MPO with local congestion data
- Prepare status report for Town of Chapel Hill
- Support MPO development of MPO CMS
- Continue TDM activities throughout Town

Products

- MPO CMS Report
- Chapel Hill data for Mobility Report Card
- Results from biannual TDM survey

Relationship to Other Plans and MPO Activities

The MPO CMS Report provides an ongoing source of information for local government on current state of the transportation network, and identifies key problem areas to be addressed in the development of the MTP and the implementation of the MTP through the TIP.

Proposed Budget and Level of Effort (Staff or Consulting)

Task will be undertaken by Transportation Planners and Division Manager. 160 hours

Task III-A: Planning Work Program

Administer the Chapel Hill element of the FY 2018-19 UPWP that describes all transportation and transportation-related planning activities anticipated within the Town of Chapel Hill and DCHC MPO planning area. Staff will prepare and process amendments as needed. Evaluate transportation planning work needs and emphasis areas and prepare the FY 2020 -21 UPWP.

Objective

- Prepare and continually maintain the FY 2018-19 UPWP
- Develop, maintain, and complete the UPWP quarterly reports and invoices
- To prepare UPWP amendments as necessary
- Prepare the FY 20-21 UPWP

Previous Work

- FY 2016-17 & FY 2017-18 UPWP

**TOWN OF CHAPEL HILL
TASK DESCRIPTIONS & NARRATIVES
FY 2019 UPWP**

Proposed Activities

- Review and amend relevant portions of the FY 2018-19 UPWP
- Prepare and submit quarterly reports
- Develop the FY 2018-19 UPWP
- Attend MPO Oversight Committee meetings as required

Products

- Amendments to the current UPWP as necessary
- Quarterly reports for current UPWP
- FY 2019-20 UPWP

Relationship to Other Plans and MPO Activities

The UPWP captures work required for all other plans and MPO activities.

Proposed Budget and Level of Effort (Staff)

Task will be undertaken primarily by the Division Manager. 100 hours

Task III-B-1: Transportation Improvement Program

The Town of Chapel Hill will participate and assist the MPO in developing projects for consideration in the next update of the State and MPO transportation improvement program. Staff will participate in the SPOT 5.0 development, including attending meetings to develop project priorities and assign local input points. Town staff will also work to implement projects currently in the STIP, including bike-ped improvements on Old Durham Road, Estes Drive, Estes Drive Extension, and the sidepath on US -15-501.

Objectives

- Prioritize MPO SPOT 5.0 projects for inclusion in the STIP
- Plan and implement projects in current and previous STIPs

Previous Work

- Development of projects for SPOT 4.0 and 5.0
- Review of draft 2018-2027 STIP
- Preparation of 2018-2027 MTIP

Proposed Activities

- Work with MPO and other jurisdictions to assign strategic local input points to SPOT projects
- Review State and MPO point assignments
- Prepare MPO TIP submissions and amendments as necessary
- Review draft STIP
- Plan and implement current and past STIP projects

Products

- Final project submissions for SPOT 5.0
- TIP amendments as necessary
- Budgets and plans for new STIP projects
- Status updates on existing STIP projects

**TOWN OF CHAPEL HILL
TASK DESCRIPTIONS & NARRATIVES
FY 2019 UPWP**

Relationship to Other Plans and MPO Activities

Projects that were submitted to SPOT 5.0 are included in the 2040/2045 MTP and CTP.

Proposed Budget and Level of Effort (Staff or Consulting)

Task will be undertaken by Transportation Planners and Division Manager. 450 hours

Task III-D-3 Special Studies

Participate in ongoing special studies, including multiple US 15-501 Feasibility & Corridor Studies, NC 54 NEPA/Design, Blue Hill TIA, Chapel Hill Mobility and Connectivity Plan, and others.

Objectives

To provide staff support to special studies that impact the DCHC MPO.

Previous Work

- Staff assistance to US 15-501 Feasibility Study
- Fordham Feasibility Study
- I-40 Managed Lane Feasibility Study
- Draft Blue Hill TIA

Proposed activities

- Attend coordination meetings
- Prepare data on request
- Provide updates to elected officials
- Continue work on other studies that impact the DCHC MPO

Products

- Completed special studies

Relationship to Other Plans and MPO Activities

NC 54 and US 15-501 are both in the current CTP, MTP and STIP. The local special studies that staff undertakes provide to MPO efforts, such as the CMP, Mobility Report Card, TRM, and others.

Proposed Budget and Level of Effort (Staff or Consulting)

Task will be undertaken by Transportation Planners and Division Manager. 215 hours

Task III-D-4: Regional or Statewide Planning

The Town will continue to work with GoTriangle to implement specific elements of the regional light rail project and Orange County Transit Plan. The Town will continue to coordinate with GoTriangle and the MPO on the environmental studies required to secure State and federal funding and to develop appropriate station area land use plans to support the implementation of the project. The Town will continue to collaborate on projects with the Town of Carrboro, Durham, UNC and Orange County.

Objectives

- Coordinate with GoTriangle to provide input into ongoing environmental and transportation studies
- Coordinate with UNC Chapel Hill on specific alignment and station development issues
- Prepare Chapel Hill Light Rail Station Area Planning Studies
- Prepare land use plans as necessary at station area sites

**TOWN OF CHAPEL HILL
TASK DESCRIPTIONS & NARRATIVES
FY 2019 UPWP**

Previous Work

The Town of Chapel Hill coordinated with GoTriangle on the Station Area Grant application and DEIS.

Proposed Activities

- Regular participation at project scoping, environmental study and public meetings conducted by GoTriangle.
- Review and comment on various elements of the light rail design
- Prepare small area plans and other related land use changes at station area locations
- Work with regional partners on plans and projects as needed

Products

- Station area planning documents
- Updated land use plans
- Attendance at light rail entitlement, joint development and design meetings

Relationship to Other Plans and MPO Activities

The activities of this task are directly related to transportation projects in the MTP, the Orange/Durham County Transit Plans, and to projects that are being considered for State and federal funding through the TIP.

Proposed Budget and Level of Effort (Staff or Consulting)

Task will be undertaken by Transportation Planners and Division Manager. 215 hours

Task III-E: Management and Operations

The Town will assist and support the DCHC-MPO efforts in complying with the federal 3-C process. The Town of Chapel Hill staff will attend DCHC-MPO and other regional meetings. The continuing transportation planning process requires considerable administrative time for attending monthly committee meetings, preparing agendas and minutes to these meetings, attending trainings, preparing quarterly progress reports, documenting expenditures for the various planning work items, and performing other administrative duties related to being a MPO member jurisdiction. Town staff also manages meetings for the Transportation and Connectivity Advisory Board and frequently presents MPO-related information and plans to the Town Council.

Objective

To assist, support, and facilitate an open Comprehensive, Cooperative, and Continuing (3C) transportation planning and programming process at all levels of government in conformance with applicable federal and state requirements and guidelines as described in the 3C Memorandum of Understanding.

Previous Work

Management of the 3C process using previous Unified Work Program and prospectus documents, transportation plans, and Memorandum of Understanding. Specifically, previous tasks include but not limited to participation in Technical Coordinating Committee (TCC) and the Transportation Advisory Committee (TAC) meetings, providing technical assistance to the TAC, development of the MTIP, preparation of the annual UPWP, working with other agencies, such as NC Division of Air Quality, etc.

Proposed Activities

- Attend all MPO TC, Board and sub-committee meetings

**TOWN OF CHAPEL HILL
TASK DESCRIPTIONS & NARRATIVES
FY 2019 UPWP**

- Provide technical assistance to the MPO
- Staff Town advisory board meetings
- Keep Town Council informed of MPO activities and seek comment when appropriate
- Review and comment on federal and state transportation-related plans, programs, regulations and guidelines pertaining to the Town of Chapel Hill

Products

- Technical assistance memoranda, reports, and public involvement meetings and workshops as needed
- Updates to the planning documents as required.

Relationship to Other Plans and MPO Activities

This task supports all plans and MPO activities.

Proposed Budget and Level of Effort (Staff or Consulting)

Task will be undertaken by Transportation Planners and Division Manager. 175 hours

City of Durham & GoDurham

Task Description	STBGP		Sec. 104(f)		Section 5303			Section 5307			Task Funding Summary			
	133(b)(3)(7)		PL		Highway/Transit			Transit			Local	NCDOT	Federal	Total
	Local	FHWA	Local	FHWA	Local	NCDOT	FTA	Local	FTA					
	20%	80%	20%	80%	10%	10%	80%	20%	80%					
II-A Surveillance of Change														
1 Traffic Volume Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2 Vehicle Miles of Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3 Street System Changes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4 Traffic Accidents	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5 Transit System Data	\$0	\$0	\$0	\$0	\$8,076	\$8,076	\$64,608	\$10,556	\$42,224	\$18,632	\$8,076	\$106,832	\$133,540	
6 Dwelling Unit, Pop. & Emp. Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7 Air Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8 Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9 Travel Time Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10 Mapping	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
11 Central Area Parking Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12 Bike & Ped. Facilities Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13 Bike & Ped. Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
II-B Long Range Transp. Plan (MTP)	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
1 Collection of Base Year Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2 Collection of Network Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3 Travel Model Updates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4 Travel Surveys	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5 Forecast of Data to Horizon year	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6 Community Goals & Objectives	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7 Forecast of Future Travel Patterns	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8 Capacity Deficiency Analysis	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9 Highway Element of the MTP	\$1,141	\$4,565	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,141	\$0	\$4,565	\$5,706	
10 Transit Element of the MTP	\$2,282	\$9,129	\$0	\$0	\$326	\$326	\$2,608	\$966	\$3,864	\$3,574	\$326	\$15,601	\$19,501	
11 Bicycle & Ped. Element of the MTP	\$1,141	\$4,565	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,141	\$0	\$4,565	\$5,706	
12 Airport/Air Travel Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13 Collector Street Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14 Rail, Water or other mode of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15 Freight Movement/Mobility Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
16 Financial Planning	\$0	\$0	\$0	\$0	\$326	\$326	\$2,608	\$18,728	\$74,912	\$19,054	\$326	\$77,520	\$96,900	
17 Congestion Management Strategies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
18 Air Qual. Planning/Conformity Anal.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
II-C Short Range Transit Planning	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
1 Short Range Transit Planning	\$0	\$0	\$0	\$0	\$2,610	\$2,610	\$20,880	\$20,116	\$80,464	\$22,726	\$2,610	\$101,344	\$126,680	
	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
III-A Planning Work Program	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
Planning Work Program	\$1,141	\$4,565	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,141	\$0	\$4,565	\$5,706	
	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
III-B Transp. Improvement Plan	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
TIP	\$3,423	\$13,694	\$0	\$0	\$653	\$653	\$5,224	\$1,938	\$7,752	\$6,014	\$653	\$26,670	\$33,337	
	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
III-C Cvl Rgts. Cmp./Otr. Reg. Reqs.	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
1 Title VI	\$0	\$0	\$0	\$0	\$326	\$326	\$2,608	\$700	\$2,800	\$1,026	\$326	\$5,408	\$6,760	
2 Environmental Justice	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3 Minority Business Enterprise	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4 Planning for the Elderly & Disabled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5 Safety/Drug Control Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6 Public Involvement	\$1,141	\$4,565	\$0	\$0	\$326	\$326	\$2,608	\$1,874	\$7,496	\$3,341	\$326	\$14,669	\$18,336	
7 Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
III-D Incidental Plng./Project Dev.	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
1 Transportation Enhancement Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2 Enviro. Analysis & Pre-TIP Plng.	\$5,706	\$22,823	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,706	\$0	\$22,823	\$28,529	
3 Special Studies	\$5,706	\$22,823	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,706	\$0	\$22,823	\$28,529	
4 Regional or Statewide Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
III-E Management & Operations	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
1 Management & Operations	\$1,141	\$4,565	\$0	\$0	\$5,207	\$5,207	\$41,656	\$4,122	\$16,488	\$10,470	\$5,207	\$62,709	\$78,386	
Totals	\$22,823	\$91,291	\$0	\$0	\$17,850	\$17,850	\$142,800	\$59,000	\$236,000	\$99,673	\$17,850	\$470,091	\$587,614	

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II-B-9: Highway Element of the MTP

The MPO will continue maintenance of highway elements of the Comprehensive Transportation Plan and Metropolitan Transportation Plan. The City will assist and support the MPO efforts. Specifically, the City will assist in the evaluation of any needed amendments to the plans. Also, the City will identify and evaluate highway facilities to be included as part of the MPO highway component of the CTP and MTP.

Objectives

1. To identify a list of highway projects based on travel demand and deficiencies.
2. To develop a series of highway alternatives (i.e. set of highway projects with a distinct objective).
3. To develop key data for each highway project such as capacity, length, alignment, cost, implementation year, etc.

Previous Work

1. 2045 MTP
2. Congestion Management Process
3. Triangle Regional Model
4. Travel demand forecast
5. Capacity deficiency analysis

Proposed Activities

1. Establish evaluation criteria.
2. Develop key data for highway projects.
3. Re-evaluation of 2045 highway element.
4. Generate highway projects and alternatives.
5. Evaluate highway projects and alternatives.
6. City Council and MPO Board comments on alternatives.

Products/Deliverables

1. Amendments to the CTP and 2045 MTP as needed
2. Preliminary identification of issues/concerns to address in future MTP updates

Relationship to Other Plans and MPO Activities:

Before the highway element can be developed, several other tasks must be successfully completed including: TRM update; travel demand forecasts; capacity deficiency analysis. In addition, the Congestion Management Process will be important to this task.

Proposed Budget and Level of Effort

Senior Transportation Planner, 90 hours

II-B-10: Transit Element of the MTP

The City of Durham will continue maintenance of transit elements of the Comprehensive Transportation Plan and the 2045 MTP. Transit evaluation will include fixed-route bus service, fixed-guideway transit, highway capacity transit and demand responsive transit. Using travel behavior, ridership forecasts and

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other analysis, evaluation of transit element will look at unmet needs, new services areas and potential markets. Performance measures will be established for evaluating transit alternatives. An extensive roster of transit routes, projects and services will be identified based on the current routes, 2013 base year, transit feasibility studies, transit 5-year and master plans, travel demand forecast and capacity deficiency analysis. Different combinations of these services will produce a variety of transit alternatives that will be analyzed to find the alternative that best meets the CTP/MTP Goals and Objectives and targets, and meets the fiscal constraint requirement. Each alternative will characterize a one or more emphasis area such as new roadways, transit intensive, etc. The transit element of the Comprehensive Transportation Plan (CTP) will be developed in parallel with the MTP, but will likely have a different set of constraints (e.g., no fiscal constraint).

Objectives

1. To identify a list of transit routes, projects and services based on completed transit studies, travel demand and deficiencies.
2. To develop a series of transit alternatives (i.e., set of transit routes, projects and services with a distinct objective).
3. To develop key data for each transit project such as route, ridership capacity (e.g., load capacity and headway), service hours, cost, implementation year, etc.

Previous Work

1. 2040 MTP
2. Feasibility studies (regional transit plans , STAC, US 15-501 Transit Corridor and I-40/NC 54 Transit Corridor, Chapel Hill Transit Master Plan, etc.)
3. Transit 5-year TDP and master plans
4. Travel demand forecast
5. Capacity deficiency analysis

Proposed Activities

1. Establish evaluation criteria.
2. Develop key data for transit services.
3. Generate transit projects and alternatives.
4. Evaluate transit projects and alternatives.
5. City Council and MPO Board comments on alternatives and draft MTP and CTP.

Products/Deliverables

1. Amendments to the CTP and 2045 MTP as needed
2. Preliminary identification of issues/concerns to address in future MTP updates
3. Commuter Rail Transit MIS study

Relationship to Other Plans and MPO Activities

Before the transit element can be developed, several other tasks must be successfully completed including: TRM update and surveys; travel demand forecasts; capacity deficiency analysis. In addition, transit plans and feasibility studies, the Congestion Management Process and CTP will be

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important input to this task.

Proposed Budget and Level of Effort

Senior Transportation Planner, 180 hours

Task II-B-11: Bicycle and Pedestrian Element of the MTP

The City of Durham will continue maintenance of the bicycle and pedestrian elements of the Comprehensive Transportation Plan and the 2045 MTP. The MPO will continue work on the implementation of the Durham Bike+Walk Implementation Plan.

Objectives

1. Update the MTP/CTP bicycle and pedestrian elements, project descriptions and cost information.
2. Collect public input on bicycle and pedestrian facilities and programs to be included in the CTP/2045 MTP.
3. Update the MTP ancillary planning and program information.
4. Coordinate existing local and regional plans and projects with MTP bicycle and pedestrian element.
5. Update MTP bicycle and pedestrian Element maps.
6. Work with local communities on Regional Priority Lists, in order to implement MTP Bicycle and Pedestrian elements through the TIP.

Previous Work

1. Preparation of the bicycle and pedestrian elements of the 2040 MTP.
2. Durham Bike+Walk Implementation Plan

Proposed Activities

1. Collect planned and proposed bicycle and pedestrian project information from local and regional plans and forums for inclusion in the MTP/CTP.
2. Create and update bicycle and pedestrian facility maps.
3. Create and update bicycle and pedestrian demand analysis.
4. Coordinate planning activities between local and regional agencies for bicycle, and pedestrian, trail/greenway and TDM initiatives.

Products/Deliverables

1. Amendments to the CTP and 2045 MTP as needed
2. Preliminary identification of issues/concerns to address in future MTP updates

Relationship to Other Plans and MPO Activities

Activities for the CTP/MTP Bicycle/Pedestrian Element will be coordinated with local and regional bicycle, pedestrian, greenway and TDM Plans, in order to capture proposed projects within the MPO.

Proposed Budget and Level of Effort

Senior Transportation Planner, 90 hours

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Task III-A: Planning Work Program

Administer the FY 2018-2019 Unified Planning Work Program (UPWP) and prepare and process amendments as needed. Evaluate transportation planning work needs and emphasis areas and prepare the FY 2020 UPWP. Prepare quarterly progress reports, document expenditures for the various planning work items, and file for reimbursement of expenditures from the PL and STP-DA funds account and other federal funds.

Objective

1. To prepare and continually maintain a UPWP that describes all transportation and transportation-related planning activities anticipated within the City of Durham and DCHC MPO planning area for the FY 2018-2019 UPWP.
2. To develop, maintain, and complete the UPWP in conformance with applicable federal, state, and regional guidelines.
3. To prepare UPWP amendments as necessary and requested by member agencies, to reflect any change in programming or focus for the current fiscal year.

Previous Work

1. Previous UPWPs
2. Previous Amendments to the UPWP

Proposed Activities

1. Review and amend relevant portions of the DCHC's UPWP in order to meet new planning requirements and/or circumstances pertinent to the MPO emphasis and transportation planning objectives.
2. Develop a new UPWP for the DCHC planning area covering the next program year. The development of a new UPWP will be prepared in cooperation with NCDOT and subject to the development process and public involvement endorsed by the MPO Board.

Expected Work Products

1. Amendments to the current UPWP as necessary.
2. Development of the FY 2020 UPWP.

Relationship to Other Plans and MPO Activities

The Planning Work Program documents the work conducted for other plans and MPO activities and enables reimbursement for work performed.

Proposed Budget and Level of Effort

Senior Transportation Planner, 90 hours

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III-B-1: Transportation Improvement Plan

Amend TIP/ STIP as needed. Finalize development of the FY 2020-2029 TIP. This includes the refinement of the MPO Priority Needs and the identification of the transportation projects, programs, and services towards which the MPO will direct STPBG, CMAQ, TAP, and other federal/state funds.

Objectives

As the Lead Planning Agency (LPA) of the DCHC MPO, the City of Durham, Transportation Division is responsible for annually developing, amending, adjusting and maintaining the TIP for the metropolitan area. Under this activity, the LPA will update and amend the current, seven-year program of transportation improvement projects that is consistent with the 2045 Metropolitan Transportation Plan, STIP, the State Implementation Plan (SIP), EPA Air Quality Conformity Regulations and FHWA/FTA Planning Regulations.

Previous Work

DCHC MPO Transportation Improvement Programs

Proposed Activities

1. Develop transportation improvement projects for consideration by the City Council.
2. Develop 2020-2029 TIP.
3. Refine project ranking methodology and priority system.
4. Conduct appropriate public participation for the TIP consistent with the MPO Public Involvement Policy.
5. Conduct formal amendments and adjustments as necessary.
6. Produce and distribute TIP documents for local officials.
7. Attend regular meetings with NCDOT to exchange information regarding transportation improvement projects.

Expected Work Product

1. Work with the MPO in the development of STI.
2. Assist and provide support to the LPA regarding STI
3. 2020-2029 Transportation Improvement Program
4. Develop and refine procedures necessary for TIP preparation and amendments as necessary.
5. TIP Amendments and Adjustments as necessary.

Proposed Budget and Level of Effort

Senior Transportation Planner, 270 hours

III-C-6: Public Involvement

The City of Durham will continue to provide an early, proactive and a meaningful public participation and input throughout the transportation planning process, including providing for open exchange of information and ideas between the public and transportation decision-makers.

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Objectives

To provide the public with complete information, timely notice, full access to key decisions and opportunities for early and continuing involvement in the 3C process. To assess the effectiveness of the current Public Involvement Process as required by the MPO, and to develop and enhance the process of public dissemination of information.

Previous Work

1. MPO Public Involvement Process.
2. Newsletters, emails, websites
3. Advertisements.

Proposed Activities

1. Administer the MPO Public Participation Process as needed.
2. Apply the Public Involvement Process to transportation programs and tasks:
3. Public meetings, workshops, and outreach programs to increase public participation, information dissemination, and education.

Expected Work Products

1. Public meetings, website postings, flyers, etc.
2. Support of Citizen Advisory Committee

Relationship to Other Plans and MPO Activities

Public involvement is used throughout the MPO planning process in support of all activities.

Proposed Budget and Level of Effort

Senior Transportation Planner, 90 hours

III-D-2: Environmental Analysis & Pre TIP Planning

The City will continue to participate regularly and consistently in the TIP project planning & development process, including submission of comments, attending public meetings, attending scoping meetings, attending NEPA 404 merger meetings, and participating in field inspections. The City will be involved in TIP project development. The City will continue to support and be involved in NCDOT efforts to link NEPA process in the MPO systems planning process.

Objectives

1. To ensure that the goals, objectives and needs of the DCHC MPO are integrated in the environmental planning process of transportation projects; and,
2. To ensure the needs of the citizens in the City portion of the DCHC MPO planning area are considered in the project planning process.

Previous Work

Regular project scoping, environmental study and public meetings, especially those conducted by the NCDOT and GoTriangle.

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Proposed Activities

1. Regular participation at project scoping, environmental study and public meetings, especially those conducted by the NCDOT and GoTriangle.
2. Review and comment on project scoping and environmental documents.
3. The City participation in NEPA process for TIP projects.

Products/Deliverables

Written comments on project scoping and environmental studies, activities and documents.

Relationship to Other Plans and MPO Activities

The activities of this task are directly related to transportation projects in the long-range transportation plan and to projects that are being considered for TIP funding.

Proposed Budget and Level of Effort

Senior Transportation Planner, 450 hours

III-D-3: Special Studies

The City will participate in MPO special studies including the US 15-501 Corridor Study and the Central Durham Study.

Objectives

1. To develop focused studies for US 15-501 and central Durham.

Previous Work

1. Special studies on various corridors and areas of the MPO.

Proposed Activities

1. Kickoff meeting and participation on steering committees
2. Development of a draft study
3. Final study
4. Website postings and public involvement

Products

1. Study documents

Relationship to Other Plans and MPO Activities

The US 15-501 corridor and central Durham study will include analysis related to the Highway and Bicycle and Pedestrian Elements of the MTP and Congestion Management Strategies.

Proposed Budget and Level of Effort

Senior Transportation Planner, 450 hours

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III-E-1: Management and Operations

The City will assist and support the DCHC MPO efforts in complying with the federal 3-C process. The City of Durham staff will attend both DCHC MPO and regional meetings. The continuing transportation planning process requires considerable administrative time for attending monthly committee meetings, preparing agendas and minutes to these meetings, and attending training.

Objective

To assist, support, and facilitate an open Comprehensive, Cooperative, and Continuing (3C) transportation planning and programming process at all levels of government in conformance with applicable federal and state requirements and guidelines as described in the 3C Memorandum of Understanding.

Previous Work

1. Management of the 3C process using previous Unified Work Program and prospectus documents, transportation plans, and Memorandum of Understanding. Specifically, previous tasks include but not limited to preparation of Technical Committee (TC) and the MPO Board meeting agendas, providing technical assistance to the MPO Board, development of the TIP, preparation of the annual UPWP, working with other agencies, such as NC Division of Air Quality, etc.

Proposed Activities

1. Provide liaisons between DCHC MPO and the City of Durham elected officials and citizens.
2. Provide technical assistance to the MPO.
3. Participate in joint meetings as a means to continually improve the quality and operation of the transportation planning process and decision making within the MPO and in the Triangle Region.
4. Review and comment on federal and state transportation-related plans, programs, regulations and guidelines pertaining to the City of Durham.

Work Product Expected

1. Technical assistance memoranda, reports, and public involvement meetings and workshops as needed.
2. Updates to the planning documents as required.

Relationship to Other Plans and MPO Activities

Participation in MPO meetings is necessary for the function of the MPO and all plans and activities.

Proposed Budget and Level of Effort

Senior Transportation Planner, 90 hours

Durham County

	Task Description	STBGP		Sec. 104(f)		Section 5303			Section 5307			Task Funding Summary					
		133(b)(3)(7)		PL		Highway/Transit			Transit			Local	NCDOT	Federal	Total		
		Local	FHWA	Local	FHWA	Local	NCDOT	FTA	Local	NCDOT	FTA						
		20%	80%	20%	80%	10%	10%	80%	10%	10%	80%						
II-A	Surveillance of Change																
	1 Traffic Volume Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Vehicle Miles of Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Street System Changes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Traffic Accidents	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Transit System Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	6 Dwelling Unit, Pop. & Emp. Change	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200	\$0	\$800	\$1,000	\$1,000
	7 Air Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	8 Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	9 Travel Time Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	10 Mapping	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200	\$0	\$800	\$1,000	\$1,000
	11 Central Area Parking Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	12 Bike & Ped. Facilities Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	13 Bike & Ped. Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0														
II-B	Long Range Transp. Plan (MTP)	\$0	\$0														
	1 Collection of Base Year Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Collection of Network Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Travel Model Updates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Travel Surveys	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Forecast of Data to Horizon year	\$2,000	\$8,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,000	\$0	\$8,000	\$10,000	\$10,000
	6 Community Goals & Objectives	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	7 Forecast of Future Travel Patterns	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	8 Capacity Deficiency Analysis	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	9 Highway Element of th MTP	\$1,600	\$6,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,600	\$0	\$6,400	\$8,000	\$8,000
	10 Transit Element of the MTP	\$3,401	\$13,602	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,401	\$0	\$13,602	\$17,003	\$17,003
	11 Bicycle & Ped. Element of the MTP	\$600	\$2,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$600	\$0	\$2,400	\$3,000	\$3,000
	12 Airport/Air Travel Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	13 Collector Street Element of MTP	\$120	\$480	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$120	\$0	\$480	\$600	\$600
	14 Rail, Water or other mode of MTP	\$100	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100	\$0	\$400	\$500	\$500
	15 Freight Movement/Mobility Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	16 Financial Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	17 Congestion Management Strategies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	18 Air Qual. Planning/Conformity Anal.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0														
II-C	Short Range Transit Planning	\$0	\$0														
	1 Short Range Transit Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0										\$0	\$0	\$0	\$0	\$0
III-A	Planning Work Program	\$0	\$0														
	Planning Work Program	\$380	\$1,520	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$380	\$0	\$1,520	\$1,900	\$1,900
		\$0	\$0										\$0	\$0	\$0	\$0	\$0
III-B	Transp. Improvement Plan	\$0	\$0														
	TIP	\$380	\$1,520	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$380	\$0	\$1,520	\$1,900	\$1,900
		\$0	\$0										\$0	\$0			
III-C	Cvl Rgts. Cmp/Otr. Reg. Reqs.	\$0	\$0														
	1 Title VI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Environmental Justice	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Minority Business Enterprise	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Planning for the Elderly & Disabled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Safety/Drug Control Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	6 Public Involvement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	7 Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0														
III-D	Incidental Plng./Project Dev.	\$0	\$0														
	1 Transportation Enhancement Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Enviro. Analysis & Pre-TIP Plng.	\$700	\$2,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$700	\$0	\$2,800	\$3,500	\$3,500
	3 Special Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Regional or Statewide Planning	\$700	\$2,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$700	\$0	\$2,800	\$3,500	\$3,500
		\$0	\$0														
III-E	Management & Operations	\$0	\$0														
	1 Management & Operations	\$380	\$1,520	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$380	\$0	\$1,520	\$1,900	\$1,900
Totals		\$10,761	\$43,042	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,761	\$0	\$43,042	\$53,803	\$53,803

**DURHAM COUNTY
TASK DESCRIPTIONS & NARRATIVES
FY 2019 UPWP**

II-A-6. Dwelling Unit, Population, & Employment Change

The County will review population and employment change data estimated by the Triangle Regional Model in preparation for the next MTP. The County will also provide data on development review activities, building permits, and certificates of occupancy.

Objective

To review dwelling unit, population, and employment data and provide local development data to LPA.

Previous work

County staff provided projected growth figures for unincorporated parts of Durham County to MPO staff and assisted the TRM process.

Proposed activities

1. Participate in meetings discussing potential improvements to the current estimation methodology
2. Submit data relating to dwelling unit and employment change to MPO staff

Products

1. Input on potential improvements/changes to the current estimation methodology
2. Dwelling unit/employment-related data as needed

Relationship to other plans and MPO activities

MTP and TRM

Proposed budget and level of effort

Majority of work to be performed by a Planner. (20 Hours)

II-A-10. Mapping.

County staff will assist in developing base maps, GIS layers, and databases to serve MPO-wide and local transportation mapping objectives. They will provide, as needed, GIS layers for highway, transit, bike, and pedestrian networks as well as parcel and zonal information. In addition, County staff will provide CommunityViz mapping support.

Objective

Update base maps, including spatial and network data, with new data and ensure high-quality mapping and analysis of transportation facilities and amenities.

Previous Work

Using GIS, provided local socioeconomic data for the 2045 MTP. Reviewed and modified CommunityViz 2045 MTP place type and development status categories.

Proposed Activities

1. Update shapefiles with new features and-or attribute data
2. Provide and-or review GIS maps for MPO projects such as the CMP and the early phases of the 2045 MTP, as needed
3. Conduct GIS network analysis as needed to address transportation issues

Products

1. Up-to-date GIS data
2. Network datasets and studies

**DURHAM COUNTY
TASK DESCRIPTIONS & NARRATIVES
FY 2019 UPWP**

Relationship to other plans and MPO activities

CMP, 2045 MTP

Proposed budget and level of effort

Majority of work to be performed by a Planner. (20 Hours)

II-B-5. Forecast of Data to Horizon Year

County staff will contribute to reviewing the current estimation methodology for forecasting socioeconomic data to the MTP horizon year to determine if any improvements are needed. In addition, County staff will continue the preparation of land use models and plans that will better integrate future rail transit and land use development around those future stations.

Objectives

Improve the process for forecasting socioeconomic data to the MTP horizon year and create land use plans that better integrate future transit options.

Previous work

For the 2045 MTP, the County contributed data and review comments for countywide growth control totals and the CommunityViz allocation of growth estimates within Durham County. County staff has also produced land use plans for selected future rail stations.

Proposed activities

1. Communicate with MPO staff and TCC representatives regarding potential improvements to the growth modeling methodology
2. In conjunction with MPO and local transportation staff, as well as the regional transit authority, create land use plans for future rail station areas

Products

1. Feedback on the growth modeling methodology
2. New land use ordinances for transit-oriented development

Relationship to other plans and MPO activities

2045 MTP, Durham County Bus and Rail Investment Plan, Durham Comprehensive Plan

Proposed budget and level of effort

Majority of work to be performed by a Planner and Senior Planner. (360 Hours)

II-B-9. Highway Element of the MTP

County staff will participate and assist the MPO in evaluating the highway elements of the 2045 MTP. The County will also participate in the Highway 98 Corridor Study and the regional tolling study.

Objectives

Update the MTP highway elements and to participate in the development of other highway-related studies.

Previous work

Preparation of the highway element of the 2045 MTP and the CTP.

**DURHAM COUNTY
TASK DESCRIPTIONS & NARRATIVES
FY 2019 UPWP**

Proposed activities

1. Provide data to the LPA on highway facilities as needed
2. Participate in the development of the Highway 98 Corridor Study
3. Participate in the regional tolling study

Products

1. Preferred highway element option
2. Key data for highway projects

Relationship to other plans and MPO activities

MTP, CTP, TIP

Proposed budget and level of effort

Majority of work to be performed by a Planner. (120 Hours)

II-B-10. Transit Element of the LRTP

County staff is leading the effort for the Station Area Strategic Infrastructure study, which is analyzing the need for infrastructure at the local level, including road, pedestrian, and bicycle infrastructure, around future rail station sites in order to optimize use of the incoming rail system. County staff will also participate in an update of the Durham Bus and Rail Investment Plan, and the Major Investment Study Core Technical Team in conjunction with CAMPO and GoTriangle, for the Durham-Wake Commuter Rail.

Objectives

Develop the Station Area Strategic Infrastructure study and provide data and input for the Durham Bus and Rail Investment Plan.

Previous work

The County has completed existing conditions work for approximately half of the station areas and has completed an assessment of infrastructure needs for the “urban” rail stations sites. County staff has been providing input and data for many years on fixed guideway transit.

Proposed activities

1. Continue work on the Station Area Strategic Infrastructure study and complete work on the suburban rail station sites, as well as develop cost estimates and financing options for the necessary infrastructure improvements
2. Provide data and input for the Durham Bus and Rail Investment Plan
3. Participate in the Major Investment Study Core Technical Team in conjunction with CAMPO and GoTriangle, for the Durham-Wake Commuter Rail

Products

1. Development of the Station Area Strategic Infrastructure study (A1)
2. Demographic and land use data for Durham Bus and Rail Investment Plan

Relationship to other plans and MPO activities

2045 MTP, Durham Bus and Rail Investment Plan, Durham Comprehensive Plan

Proposed budget and level of effort

Majority of work to be performed by a Planner and Senior Planner. (400 Hours)

**DURHAM COUNTY
TASK DESCRIPTIONS & NARRATIVES
FY 2019 UPWP**

II-B-11. Bicycle and Pedestrian Element of the MTP

County staff will participate and assist the MPO in evaluating the bicycle and pedestrian elements of the 2045 MTP. The County will also prepare periodic updates to the Durham Trails and Greenways (DTAG) Master Plan.

Objectives

Update the MTP bicycle and pedestrian elements and the Durham Trails and Greenways Master Plan.

Previous work

Preparation of the bicycle and pedestrian element of the 2045 MTP and the CTP.

Proposed activities

1. Provide data to the LPA on bike and pedestrian facilities as needs
2. Develop updates of the DTAG plan

Products

1. Provide data to the LPA on bike and pedestrian facilities as need.
2. Develop updates of the DTAG plan

Relationship to other plans and MPO activities

MTP, CTP, TIP

Proposed budget and level of effort

Majority of work to be performed by a Planner. (90 Hours)

II-B-13. Collector Street Element of the MTP

County staff will assist the MPO in updating the MPO Collector Street and Connectivity Plan.

Objectives

Assist the MPO in identifying new or amended collector street plans near Light Rail stations.

Previous work

None.

Proposed activities

1. Evaluation of collector street network around light rail stations and corresponding Compact Neighborhoods.

Products

1. New or Amended Collector Street Plans

Relationship to other plans and MPO activities

MTP, CTP, TIP

Proposed budget and level of effort

Majority of work to be performed by a Planner. (15 Hours)

**DURHAM COUNTY
TASK DESCRIPTIONS & NARRATIVES
FY 2019 UPWP**

II-B-14. Rail, Water, or other Mode of the MTP

County staff will participate and assist the MPO in evaluating the rail elements of the 2045 MTP, including but not limited to any grade separation studies.

Objectives

Update the MTP rail element.

Previous work

Preparation of the rail element of the 2045 MTP and the CTP.

Proposed activities

1. Evaluation of the 2045 rail element

Products

1. Preferred rail element option; and

Relationship to other plans and MPO activities

MTP, CTP, TIP

Proposed budget and level of effort

Majority of work to be performed by a Planner. (35 Hours)

III-A-1. Planning Work Program

The County will administer the FY 2018-19 UPWP and prepare and process amendments as needed. It will evaluate transportation planning work needed and emphasis areas and prepare the FY 2019-20 UPWP. County staff will serve on the UPWP oversight committee for the MPO.

Objectives

Process amendments to the UPWP if necessary and provide input on UPWP oversight.

Previous work

County staff have been involved in previous UPWPs, providing oversight and guidance to UPWP management.

Proposed activities

1. Complete amendment spreadsheets as needed
2. Prepare Durham County's 2018-2019 UPWP documents and budget

Products

1. Amendment spreadsheets as needed
2. Durham County's previous fiscal year UPWP activities narrative and budget

Relationship to other plans and MPO activities

Required by federal law, the UPWP is the mechanism for regional transportation planning and coordination within the MPO.

Proposed budget and level of effort

Worked to be performed by a Planning Supervisor (30 Hours)

**DURHAM COUNTY
TASK DESCRIPTIONS & NARRATIVES
FY 2019 UPWP**

III-B-1. TIP

The County will assist the MPO and NCDOT in development of the next STIP and MTIP and participate in the SPOT 5.0 process.

Objectives

To facilitate timely progress on TIP projects and process amendment when necessary. The County will continue to participate in review and coordination regarding the SPOT 5.0 prioritization process for the next TIP.

Previous work

County staff have been involved in previous TIPs and Spot 4.0

Proposed activities

1. Development transportation improvement projects for consideration by the County Commission
2. Develop 2018-2027 TIP
3. Refine project ranking methodology and priority system
4. Conduct appropriate public participation for the TIP consistent with the MPO Public Involvement Policy
5. Conduct formal amendments and adjustments as necessary
6. Produce and distribute TIP document for local officials
7. Attend regular meetings with NCDOT to exchange information regarding transportation improvement projects

Products

1. Assist and provide support to the LPA on SPOT 5.0
2. 2018-2027 Transportation Improvement Program

Relationship to other plans and MPO activities

2045 MTP

Proposed budget and level of effort

Worked to be performed by a Planner (60 Hours)

III-D-2. Environmental Analysis and Pre-TIP Planning

The County will participate regularly in feasibility studies and NEPA-related processes for pre-TIP projects.

Objectives

To participate regularly in feasibility studies and NEPA-related processes for pre-TIP projects.

Previous work

County staff have been involved in previous feasibility studies and NEPA-related processes

Proposed activities

1. Regular participation at project scoping, environmental study, and public meetings, especially those conducted by the NCDOT and GoTriangle
2. Review and comment on project scoping and environmental documents
3. County participation in NEPA process for TIP projects

**DURHAM COUNTY
TASK DESCRIPTIONS & NARRATIVES
FY 2019 UPWP**

Products

Written comments on project scoping and environmental studies, activities and documents.

Relationship to other plans and MPO activities

2045 MTP and TIP

Proposed budget and level of effort

Worked to be performed by a Planner and Planning Supervisor (48 Hours)

III-D-4. Regional or Statewide Planning

County staff will provide input to the regional transit agency and NCDOT regarding transportation issues. Staff will also serve on various regional transportation-related committees and boards.

Objectives

Provide input to the regional transit agency and serve on regional transportation-related boards and committees.

Previous work

County staff has served on various regional committees such the Triangle J Council of Governments CORE committee, which looks at regional transportation issues. County staff also provides input and data to the regional transit agency as requested.

Proposed activities

1. Work with regional planners on transportation planning that crosses jurisdictional borders
2. Provide input and data to the regional transit agency as requested

Products

1. Provide staff to regional committees
2. Provide coordination between local governments as needed

Relationship to other plans and MPO activities

2045 MTP

Proposed budget and level of effort

Work to be performed by a Planner and a Planning Supervisor. (150 Hours)

III-E-1. Management and Operations

Administrative tasks necessary to maintaining the 3C planning process will be completed.

Objectives

- Participate and contribute to MPO-related meetings.
- Adhere to the goals and tasks laid out in the Unified Planning Work Program.
- Ensure that elected officials have adequate information to make informed decisions on local and regional transportation issues.
- Ensure the local transportation advisory board has the information it needs to develop sound recommendations on local and regional transportation issues.
- Improve staff efficiency and knowledge through training sessions and educational materials.

**DURHAM COUNTY
TASK DESCRIPTIONS & NARRATIVES
FY 2019 UPWP**

Previous work

Similar to proposed activities described below

Proposed activities

1. Attend and participate in MPO Board and TC meetings
2. Staff development through professional training courses, seminars, and conferences
3. Prepare materials and present to the local elected officials related to local and regional transportation planning topics
4. Attend and participate in MPO subcommittee meetings

Products

1. Staff reports and communication with other County officials as well as elected officials and members of advisory boards

Relationship to other plans and MPO activities

See objectives and proposed activities.

Proposed budget and level of effort

Work to be performed by a Planner and a Planning Supervisor. (60 Hours)

Triangle J COG

	Task Description	STBGP 133(b)(3)(7)		Sec. 104(f) PL		Section 5303 Highway/Transit			Section 5307 Transit			Task Funding Summary				
		Local 20%	FHWA 80%	Local 20%	FHWA 80%	Local 10%	NCDOT 10%	FTA 80%	Local 10%	NCDOT 10%	FTA 80%	Local	NCDOT	Federal	Total	
II A	Surveillance of Change															
	1 Traffic Volume Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Vehicle Miles of Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Street System Changes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Traffic Accidents	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Transit System Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	6 Dwelling Unit, Pop. & Emp. Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	7 Air Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	8 Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	9 Travel Time Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	10 Mapping	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	11 Central Area Parking Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	12 Bike & Ped. Facilities Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	13 Bike & Ped. Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0													
II B	Long Range Transp. Plan (MTP)	\$0	\$0													
	1 Collection of Base Year Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Collection of Network Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Travel Model Updates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Travel Surveys	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Forecast of Data to Horizon year	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	6 Community Goals & Objectives	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	7 Forecast of Future Travel Patterns	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	8 Capacity Deficiency Analysis	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	9 Highway Element of the MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	10 Transit Element of the MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	11 Bicycle & Ped. Element of the MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	12 Airport/Air Travel Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	13 Collector Street Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	14 Rail, Water or other mode of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	15 Freight Movement/Mobility Plannin	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	16 Financial Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	17 Congestion Management Strategies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	18 Air Qual. Planning/Conformity Anal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0													
II C	Short Range Transit Planning	\$0	\$0													
	1 Short Range Transit Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0													
III-A	Planning Work Program	\$0	\$0													
	1 Planning Work Program	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0													
III-B	Transp. Improvement Plan	\$0	\$0													
	1 TIP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0													
III-C	Cvl Rgts. Cmp./Otr .Reg. Reqs.	\$0	\$0													
	1 Title VI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Environmental Justice	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Minority Business Enterprise	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Planning for the Elderly & Disabled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Safety/Drug Control Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	6 Public Involvement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	7 Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0													
III-D	Incidental Plng./Project Dev.	\$0	\$0													
	1 Transportation Enhancement Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Enviro. Analysis & Pre-TIP Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Special Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Regional or Statewide Planning	\$16,250	\$65,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,250	\$0	\$65,000	\$81,250	
		\$0	\$0													
III-E	Management & Operations	\$0	\$0													
	1 Management & Operations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Totals		\$16,250	\$65,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,250	\$0	\$65,000	\$81,250	

**TRIANGLE J COUNCIL OF GOVERNMENTS
TASK DESCRIPTIONS & NARRATIVES
FY 2019 UPWP**

III-D-4. Regional or Statewide Planning.

Facilitate and/or manage joint activities and undertake analysis work in land use, transportation and air quality planning that involve multiple MPO, RPO, local government, transit agency, state and federal agency and private sector partners.

Objectives

To ensure that activities that have a scope or scale that transcend any single MPO are done in a coordinated, timely, effective and cost-efficient way.

Previous work

CommunityViz support and Version 2 development, evaluation and documentation; Joint 2045 MTP technical work; ozone standards and non-attainment education and technical assistance; MTP and TIP conformity coordination, TRM executive committee support, fiscal constraint management, GoTriangle and county transit plan participation, MPO area plan and project participation.

Proposed activities

Major activities include CommunityViz 2.0 follow-up based on FY18 debrief, improvement and expanded deployment leading to CommunityViz 3.0, 2045 MTP follow-up and amendments; TRM executive committee support; 2045 MTP land use-transit investment implementation refinement, including any small area uses, transportation-air quality issue tracking. Major expanded activity would be: 1) transitioning some socioeconomic data and method responsibilities from ITRE TRM team to TJCOG CommunityViz team; and 2) helping MPOs track land use, socioeconomic and housing related performance metrics in the Metropolitan Transportation Plan

Products

- CommunityViz 3.0 framing document with activities and schedule
- 2045 MTP amendments and joint MPO technical support
- Triangle Regional Model Executive Committee documentation
- CommunityVIZ products, focusing on final preferred scenario documentation and follow-up.
- Transportation-land use-affordable housing data and reports, as appropriate
- (if expanded scope approved by both MPOs) – Employment-related socioeconomic data and methods for use in version 6 of the Triangle Regional Model
- (if expanded scope approved by both MPOs) – Systematic performance metric tracking from 2045 MTP for land use, affordable housing and related socioeconomic characteristics.

Relationship to other plans and MPO activities

This work is most closely tied to the DCHC 2045 MTP implementation and amendment process and refined data and methods related to version 6 of the Triangle Regional Model. Work enables the DCHC MPO to ensure consistent and seamless coordination with CAMPO and other regional transportation partners and local community planning efforts.

Proposed budget and level of effort

Budget largely supports staff work by Planning Director, Senior Planner, Planner II, and GIS Analyst, with some direct costs associated with travel and meeting expenses, and allocated indirect.

Funding Commitments from other Entities:

20% local match to be provided by TJCOG; other funding participation in joint effort from CAMPO and GoTriangle as in previous years.

Town of Chapel Hill

	Task Description	STBGP 133(b)(3)(7)		Sec. 104(f) PL		Section 5303 Highway/Transit			Section 5307 Transit			Task Funding Summary			
		Local 20%	FHWA 80%	Local 20%	FHWA 80%	Local 10%	NCDOT 10%	FTA 80%	Local 10%	NCDOT 10%	FTA 80%	Local	NCDOT	Federal	Total
II-A	Surveillance of Change														
1	Traffic Volume Counts	\$776	\$3,106	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$776	\$0	\$3,106	\$3,882
2	Vehicle Miles of Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Street System Changes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Traffic Accidents	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Transit System Data	\$0	\$0	\$0	\$0	\$870	\$870	\$6,960	\$0	\$0	\$0	\$870	\$870	\$6,960	\$8,700
6	Dwelling Unit, Pop. & Emp. Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	Air Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Travel Time Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10	Mapping	\$2,157	\$8,628	\$0	\$0	\$3,610	\$3,610	\$28,880	\$0	\$0	\$0	\$5,767	\$3,610	\$37,508	\$46,885
11	Central Area Parking Inventory	\$604	\$2,416	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$604	\$0	\$2,416	\$3,020
12	Bike & Ped. Facilities Inventory	\$1,035	\$4,142	\$0	\$0	\$952	\$952	\$7,616	\$0	\$0	\$0	\$1,987	\$952	\$11,758	\$14,697
13	Bike & Ped. Counts	\$1,035	\$4,142	\$0	\$0	\$656	\$656	\$5,248	\$0	\$0	\$0	\$1,691	\$656	\$9,390	\$11,737
		\$0	\$0			\$0	\$0	\$0							
II-B	Long Range Transp. Plan (MTP)	\$0	\$0			\$0	\$0	\$0							
1	Collection of Base Year Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Collection of Network Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Travel Model Updates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Travel Surveys	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Forecast of Data to Horizon year	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	Community Goals & Objectives	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	Forecast of Future Travel Patterns	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	Capacity Deficiency Analysis	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Highway Element of the MTP	\$1,553	\$6,212	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,553	\$0	\$6,212	\$7,765
10	Transit Element of the MTP	\$0	\$0	\$0	\$0	\$952	\$952	\$7,616	\$0	\$0	\$0	\$952	\$952	\$7,616	\$9,520
11	Bicycle & Ped. Element of the MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12	Airport/Air Travel Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Collector Street Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14	Rail, Water or other mode of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15	Freight Movement/Mobility Plannin	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
16	Financial Planning	\$1,103	\$4,411	\$0	\$0	\$653	\$653	\$5,224	\$0	\$0	\$0	\$1,756	\$653	\$9,635	\$12,044
17	Congestion Management Strategies	\$1,380	\$5,522	\$0	\$0	\$620	\$620	\$4,960	\$0	\$0	\$0	\$2,000	\$620	\$10,482	\$13,102
18	Air Qual. Planning/Conformity Ana	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0			\$0	\$0	\$0							
II-C	Short Range Transit Planning	\$0	\$0			\$0	\$0	\$0							
	Short Range Transit Planning	\$0	\$0	\$0	\$0	\$1,080	\$1,080	\$8,640	\$0	\$0	\$0	\$1,080	\$1,080	\$8,640	\$10,800
		\$0	\$0			\$0	\$0	\$0							
III-A	Planning Work Program	\$0	\$0			\$0	\$0	\$0							
	Planning Work Program	\$1,003	\$4,010	\$0	\$0	\$860	\$860	\$6,880	\$0	\$0	\$0	\$1,863	\$860	\$10,890	\$13,613
		\$0	\$0			\$0	\$0	\$0							
III-B	Transp. Improvement Plan	\$0	\$0			\$0	\$0	\$0							
	TIP	\$3,900	\$15,600	\$0	\$0	\$2,349	\$2,349	\$18,792	\$0	\$0	\$0	\$6,249	\$2,349	\$34,392	\$42,990
		\$0	\$0			\$0	\$0	\$0							
III-C	Cvl Rgts. Cmp./Otr .Reg. Reqs.	\$0	\$0			\$0	\$0	\$0							
1	Title VI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Environmental Justice	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Minority Business Enterprise	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Planning for the Elderly & Disabled	\$0	\$0	\$0	\$0	\$240	\$240	\$1,920	\$0	\$0	\$0	\$240	\$240	\$1,920	\$2,400
5	Safety/Drug Control Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	Public Involvement	\$0	\$0	\$0	\$0	\$488	\$488	\$3,904	\$0	\$0	\$0	\$488	\$488	\$3,904	\$4,880
7	Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0			\$0	\$0	\$0							
III-D	Incidental Plng./Project Dev.	\$0	\$0			\$0	\$0	\$0							
1	Transportation Enhancement Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Enviro. Analysis & Pre-TIP Plng.	\$0	\$0	\$0	\$0	\$336	\$336	\$2,688	\$0	\$0	\$0	\$336	\$336	\$2,688	\$3,360
3	Special Studies	\$1,855	\$7,420	\$0	\$0	\$620	\$620	\$4,960	\$0	\$0	\$0	\$2,475	\$620	\$12,380	\$15,475
4	Regional or Statewide Planning	\$1,855	\$7,420	\$0	\$0	\$1,240	\$1,240	\$9,920	\$0	\$0	\$0	\$3,095	\$1,240	\$17,340	\$21,675
		\$0	\$0			\$0	\$0	\$0							
III-E	Management & Operations	\$0	\$0			\$0	\$0	\$0							
1	Management & Operations	\$1,510	\$6,040	\$0	\$0	\$1,624	\$1,624	\$12,992	\$0	\$0	\$0	\$3,134	\$1,624	\$19,032	\$23,790
	Totals	\$19,767	\$79,068	\$0	\$0	\$17,150	\$17,150	\$137,200	\$0	\$0	\$0	\$36,917	\$17,150	\$216,268	\$270,335

Anticipated DBE Contracting Opportunities for 2018-2019

Name of MPO: Durham-Chapel Hill-Carrboro MPO

Check here if no anticipated DBE opportunities

Person Completing Form: Bergen Watterson

Telephone Number: 919-969-5064

Prospectus Task Code	Prospectus Description	Name of Agency Contracting Out	Type of Contracting Opportunity (Consultant, etc.)	Federal Funds to be Contracted Out	Total Funds to be Contracted Out
No contracting opportunities					

Sample Entry:

II-C-11	Transit Plan Evaluation	Big City Planning Department	Consultant	\$48,000	\$60,000
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Note: This form must be submitted to NCDOT-PTD even if you anticipate no DBE Contracting Opportunities. Note “No contracting opportunities” on the table if you do not anticipate having any contracting opportunities.

**CHAPEL HILL TRANSIT
FTA TASK NARRATIVE TABLE
FY2019 UPWP**

1-	MPO	DCHC-MPO (Chapel Hill)	DCHC-MPO (Chapel Hill)	DCHC-MPO (Chapel Hill)	DCHC-MPO (Chapel Hill)	DCHC-MPO (Chapel Hill)	DCHC-MPO (Chapel Hill)	DCHC-MPO (Chapel Hill)	DCHC-MPO (Chapel Hill)	DCHC-MPO (Chapel Hill)	DCHC-MPO (Chapel Hill)	DCHC-MPO (Chapel Hill)
2-	FTA Code	442400	442301	442302	442302	442302	442302	442400	442400	442100	442500	442400
3-	Task Code	II-A-5	II-A-10	II-A-12	II-A-13	II-B-10	II-B-16	II-B-17	II-C-1	III-A-1	III-B-1	III-C-4
4-	Title of Planning Task	Transit System Data	Mapping	Bicycle and Pedestrian Facility Inventory	Bicycle and Pedestrian Counts	Transit Element of the MTP	Financial Planning	Congestion Management Strategies	Short Range Transit Planning	Planning Work Program	Transportation Improvement Program	Planning for the Elderly and Disabled
5-	Task Objective	Review and analyze transit system data to monitor changes in travel behavior, adjust routes/headways as necessary. Identify strengths and weaknesses to assess service barriers and future options	Participate with MPO in further development of regional GIS database; prepare mapping to support local and regional activities	Collect data on existing bicycle and pedestrian facilities to assess connectivity and access to transit options	Collect data on existing bicycle and pedestrian activity from transportation impact surveys and Towns network of counters as part of transit route assessment.	Support the evaluation of the transit element of the 2045 MTP, including DO-LRT, Commuter Rail, and BRT activities. Develop the Chapel Hill Transit short range transit plan	Monitor implementation of adopted Financial Plan for 2045 MTP, Orange County Transit Plan, and other plans/projects	Support the updates of the MPO CMP and Mobility Report Card activities. Coordinate with Triangle Regional TDM program to implement regionwide TDM program.	Support the development of a regional LRT/BRT/Commuter rail plan. Continue with CHT short range transit planning to coordinate with regional efforts.	Prepare quarterly reports for the Chapel Hill element of the FY2019 UPWP, prepare amendments as needed, develop the FY2020 UPWP	Finalize submissions for SPOT 5.0, prepare information for the SPOT 6.0 process, monitor and implement the adopted TIP and prepare information for amendments to TIP.	To assess impact of transit service on elderly and handicapped populations. Implement Town's ADA Transition Plan
6-	Tangible Product Expected	Monthly and yearly ridership counts, routes/service assessment, traffic signal assessment	MPO Regional GIS database and CMS database.	Data on existing bicycle and pedestrian facilities.	Data on existing bicycle and pedestrian activity.	Evaluation of transit preferred options, update 2045 transit tables and attributes, update geodatabase of transit preferred option and final 2045 projects	Refinements to the 2045 MTP financial plan, quarterly reports and annual work plan for the OC Transit Plan, other budgets and workplans for transit projects	Preparation of DCHC MPO CMS and Mobility Report Card. Development of TDM program.	Possible 5-year regional budget and connectivity plan, CHT short-range transit plan, system performance report, GIS shapefiles of routes and proposed changes	Quarterly reports, amendments as necessary, FY2020 UPWP	Final SPOT 5.0 submittals, preliminary SPOT 6.0 projects, budgets and progress reports for ongoing TIP projects, amendments as needed	Annual assessment, updated ADA plan/activities, route maps showing ADA target areas
7-	Expected Completion Date of Product(s)	6/30/2019	6/30/2019	6/30/2019	6/30/2019	6/30/2019	6/30/2019	6/30/2019	6/30/2019	6/30/2019	6/30/2019	6/30/2019
8-	Previous Work	Data Collection	Provided support for development of geo spatial database. Maintained current transit GIS data	Collection of bike and pedestrian facility data	Collection of bike and pedestrian count data	Development of 2045 MTP transit projects, Orange County Transit Plan inputs, BRT alternatives analysis	2040 Financial Plan and CHT's Financial Sustainability Plan	2016 Mobility Report Card, previous years' TDM programs and reports	2040/2045 MTP, Orange County Transit Plan, CHT Financial Sustainability Plan, N-S Corridor Study	Development and management of previous years' UPWPs	SPOT 3.0/4.0 project submittals, current TIP/STIP, monitoring and implementing past TIP projects	Ongoing monitoring, CHT bus stop facility inventory
9-	Prior FTA Funds											
10-	Relationship To Other Activities	Supports implementation of MTP and Orange County Transit Plan	Supports development and implementation of MTP, Orange County Transit Plan, and other MPO-related activities	Supports development and implementation of MTP, Orange County Transit Plan, Mobility and Connectivity Plan, and other MPO-related activities	Supports development and implementation of MTP, Orange County Transit Plan, Mobility and Connectivity Plan, and other MPO-related activities	Supports development and implementation of MTP, Orange County Transit Plan, and other MPO-related activities	Supports development and implementation of MTP, Orange County Transit Plan, and other MPO-related activities	Supports development of 2018 Mobility Report Card and CMS. Supports implementation of regional TDM programs.	Supports development and implementation of MTP, Orange County Transit Plan, and other MPO-related activities	Supports implementation of annual work program	Supports implementation of adopted MTP and TIP	This project supports the MPO ADA Plan
11-	Agency Responsible for Task Completion	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill
12-	HPR - Highway - NCDOT 20%											
13-	HPR - Highway - FHWA 80%											
14-	Section 104 (f) PL Local 20%											
15-	Section 104 (f) PL FHWA 80%											
16-	Section 5303 Local 10%	\$870	\$3,610	\$952	\$656	\$952	\$653	\$620	\$1,080	\$860	\$2,349	\$240
17-	Section 5303 NCDOT 10%	\$870	\$3,610	\$952	\$656	\$952	\$653	\$620	\$1,080	\$860	\$2,349	\$240
18-	Section 5303 FTA 80%	\$6,960	\$28,880	\$7,616	\$5,248	\$7,616	\$5,224	\$4,960	\$8,640	\$6,880	\$18,792	\$1,920
19-	Section 5307 Transit - Local 10%											
20-	Section 5307 Transit - NCDOT 10%											
21-	Section 5307 Transit - FTA 80%											
22-	Section 5309 Transit - Local 10%											
23-	Section 5309 Transit - NCDOT 10%											
24-	Section 5309 Transit - FTA 80%											
		\$8,700	\$36,100	\$9,520	\$6,560	\$9,520	\$6,530	\$6,200	\$10,800	\$8,600	\$23,490	\$2,400
		\$8,700	\$36,100	\$9,520	\$6,560	\$9,520	\$6,530	\$6,200	\$10,800	\$8,600	\$23,490	\$2,400

**CHAPEL HILL TRANSIT
FTA TASK NARRATIVE TABLE
FY2019 UPWP**

1-	MPO	DCHC-MPO (Chapel Hill)	DCHC-MPO (Chapel Hill)	DCHC-MPO (Chapel Hill)	DCHC-MPO (Chapel Hill)	DCHC-MPO (Chapel Hill)	
2-	FTA Code	442400	442400	442700	442200	442100	
3-	Task Code	III-C-6	III-D-2	III-D-3	III-D-4	III-E	
4-	Title of Planning Task	Public Involvement	Environmental Analysis and Pre TIP Planning	Special Studies	Regional or Statewide Planning	Management and Operations	TOTALS
5-	Task Objective	Ensure public participation and input throughout the transportation planning process	Participate in NCDOT project development, including feasibility studies and environmental studies/NEPA	To prepare special studies to support ongoing transit operations. Participate in design/NEPA studies for BRT and Downtown Circulation Study	To support regional and statewide planning projects, including DO-LRT, 15-501 Corridor Study, 15-501 Feasibility Study, NC 54 corridor design/NEPA	To support various transit planning activities	
6-	Tangible Product Expected	Summary of public involvement activities	Feasibility and environmental studies for STIP and other local transportation projects	Participation in design/NEPA for BRT, final Downtown Circulation Study, work on other special studies as needed	LRT station area plans, participation in NCDOT US 15-501/Fordham Blvd. corridor study, 15-501 Feasibility Study, NC 54 design/NEPA	Ongoing transit activities and reporting requirements.	
7-	Expected Completion Date of Product(s)	6/30/2019	6/30/2019	6/30/2019	6/30/2019	6/30/2019	
8-	Previous Work	Public meetings for 2045 MTP and CTP, meetings and surveys for Mobility and Connectivity Plan	SPOT 4.0/5.0 project submittals, N-S Corridor Study Alternatives Analysis	Mobility and Connectivity Plan, N-S Corridor Study Alternatives Analysis	US 15-501 South Corridor Study, NC 54 Corridor Study	Management of transit planning activities	
9-	Prior FTA Funds						
10-	Relationship To Other Activities	Supports all MPO and Town transportation planning activities	Supports all MPO and Town transportation planning activities	Supports implementation of adopted MTP, TIP and other state/federally funded projects	Supports the implementation of the adopted 2045 MTP and the Chapel Hill Long Range Transit Plan.	Supports all other transit planning activities MPO-wide.	
11-	Agency Responsible for Task Completion	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	
12-	HPR - Highway - NCDOT 20%						
13-	HPR - Highway - FHWA 80%						
14-	Section 104 (f) PL Local 20%						\$0
15-	Section 104 (f) PL FHWA 80%						\$0
16-	Section 5303 Local 10%	\$488	\$336	\$620	\$1,240	\$1,624	\$17,150
17-	Section 5303 NCDOT 10%	\$488	\$336	\$620	\$1,240	\$1,624	\$17,150
18-	Section 5303 FTA 80%	\$3,904	\$2,688	\$4,960	\$9,920	\$12,992	\$137,200
19-	Section 5307 Transit - Local 10%						\$0
20-	Section 5307 Transit - NCDOT 10%						\$0
21-	Section 5307 Transit - FTA 80%						\$0
22-	Section 5309 Transit - Local 10%						\$0
23-	Section 5309 Transit - NCDOT 10%						\$0
24-	Section 5309 Transit - FTA 80%						\$0
		\$4,880	\$3,360	\$6,200	\$12,400	\$16,240	\$171,500
							\$0
		\$4,880	\$3,360	\$6,200	\$12,400	\$16,240	\$171,500

City of Durham & GoDurham

Task Description	STBGP		Sec. 104(f)		Section 5303			Section 5307			Task Funding Summary			
	133(b)(3)(7)		PL		Highway/Transit			Transit			Local	NCDOT	Federal	Total
	Local	FHWA	Local	FHWA	Local	NCDOT	FTA	Local	FTA					
	20%	80%	20%	80%	10%	10%	80%	20%	80%					
II-A Surveillance of Change														
1 Traffic Volume Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2 Vehicle Miles of Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3 Street System Changes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4 Traffic Accidents	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5 Transit System Data	\$0	\$0	\$0	\$0	\$8,076	\$8,076	\$64,608	\$10,556	\$42,224	\$18,632	\$8,076	\$106,832	\$133,540	\$133,540
6 Dwelling Unit, Pop. & Emp. Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7 Air Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8 Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9 Travel Time Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10 Mapping	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
11 Central Area Parking Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12 Bike & Ped. Facilities Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13 Bike & Ped. Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
II-B Long Range Transp. Plan (MTP)	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
1 Collection of Base Year Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2 Collection of Network Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3 Travel Model Updates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4 Travel Surveys	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5 Forecast of Data to Horizon year	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6 Community Goals & Objectives	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7 Forecast of Future Travel Patterns	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8 Capacity Deficiency Analysis	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9 Highway Element of the MTP	\$1,141	\$4,565	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,141	\$0	\$4,565	\$5,706	\$5,706
10 Transit Element of the MTP	\$2,282	\$9,129	\$0	\$0	\$326	\$326	\$2,608	\$966	\$3,864	\$3,574	\$326	\$15,601	\$19,501	\$19,501
11 Bicycle & Ped. Element of the MTP	\$1,141	\$4,565	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,141	\$0	\$4,565	\$5,706	\$5,706
12 Airport/Air Travel Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13 Collector Street Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14 Rail, Water or other mode of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15 Freight Movement/Mobility Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
16 Financial Planning	\$0	\$0	\$0	\$0	\$326	\$326	\$2,608	\$18,728	\$74,912	\$19,054	\$326	\$77,520	\$96,900	\$96,900
17 Congestion Management Strategies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
18 Air Qual. Planning/Conformity Anal.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
II-C Short Range Transit Planning	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
1 Short Range Transit Planning	\$0	\$0	\$0	\$0	\$2,610	\$2,610	\$20,880	\$20,116	\$80,464	\$22,726	\$2,610	\$101,344	\$126,680	\$126,680
	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
III-A Planning Work Program	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
Planning Work Program	\$1,141	\$4,565	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,141	\$0	\$4,565	\$5,706	\$5,706
	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
III-B Transp. Improvement Plan	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
TIP	\$3,423	\$13,694	\$0	\$0	\$653	\$653	\$5,224	\$1,938	\$7,752	\$6,014	\$653	\$26,670	\$33,337	\$33,337
	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
III-C Cvl Rgts. Cmp./Otr. Reg. Reqs.	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
1 Title VI	\$0	\$0	\$0	\$0	\$326	\$326	\$2,608	\$700	\$2,800	\$1,026	\$326	\$5,408	\$6,760	\$6,760
2 Environmental Justice	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3 Minority Business Enterprise	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4 Planning for the Elderly & Disabled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5 Safety/Drug Control Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6 Public Involvement	\$1,141	\$4,565	\$0	\$0	\$326	\$326	\$2,608	\$1,874	\$7,496	\$3,341	\$326	\$14,669	\$18,336	\$18,336
7 Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
III-D Incidental Plng./Project Dev.	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
1 Transportation Enhancement Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2 Enviro. Analysis & Pre-TIP Plng.	\$5,706	\$22,823	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,706	\$0	\$22,823	\$28,529	\$28,529
3 Special Studies	\$5,706	\$22,823	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,706	\$0	\$22,823	\$28,529	\$28,529
4 Regional or Statewide Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
III-E Management & Operations	\$0	\$0			\$0	\$0	\$0	\$0	\$0					
1 Management & Operations	\$1,141	\$4,565	\$0	\$0	\$5,207	\$5,207	\$41,656	\$4,122	\$16,488	\$10,470	\$5,207	\$62,709	\$78,386	\$78,386
Totals	\$22,823	\$91,291	\$0	\$0	\$17,850	\$17,850	\$142,800	\$59,000	\$236,000	\$99,673	\$17,850	\$470,091	\$587,614	\$587,614

Anticipated DBE Contracting Opportunities for 2018-2019

Name of MPO: Durham-Chapel Hill-Carrboro MPO _____ Check here if no anticipated DBE opportunities

Person Completing Form: GoDurham Telephone Number: _____

Prospectus Task Code	Prospectus Description	Name of Agency Contracting Out	Type of Contracting Opportunity (Consultant, etc.)	Federal Funds to be Contracted Out	Total Funds to be Contracted Out

Sample Entry:

II-C-11	Transit Plan Evaluation	Big City Planning Department	Consultant	\$48,000	\$60,000
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Note: This form must be submitted to NCDOT-PTD even if you anticipate no DBE Contracting Opportunities. Note “No contracting opportunities” on the table if you do not anticipate having any contracting opportunities.

**GoDurham (formerly DASH)
FTA TASK NARRATIVE TABLE
FY2019 UPWP**

1-	MPO	DCHC-MPO (DATA)	DCHC-MPO (DATA)	DCHC-MPO (DATA)	DCHC-MPO (DATA)	DCHC-MPO (DATA)	DCHC-MPO (DATA)	DCHC-MPO (DATA)	DCHC-MPO (DATA)	DCHC-MPO (DATA)	
2-	FTA Code	442400	442302	442302	442302	442400	442500	442100	442400	442100	
3-	Task Code	II-A-5	II-B-10	II-B-10	II-B-16	II-C-1	II-B-1	III-C-1	III-C-6	III-E-1	
4-	Title of Planning Task	Transit System Data	Transit Element of the L RTP	Financial Planning	Short Range Transit Planning	Transportation Improvement Program (TIP)	Title VI	Public Involvement	Management and Operations	TOTALS	
5-	Task Objective	This element is essentially about transit performance measures that are obtained through the compilation and analysis of FTA and NCDOT required service data obtained from the fixed route and paratransit systems. Conduct system-wide surveys while providing on-going monitoring of the systems. These performance measures are compared with historical values to gauge the overall service delivery and consumption strength. Provide oversight of passenger amenities including AVL and related technologies. Compile daily, weekly and monthly ridership data and reports for all agencies. Provide ongoing support to MPO in long range transit, UPWP and TIP development. Key objectives include: integrating APC data in to the transit GIS system through routes and stops analysis that are segmented at TAZ levels, improving the geodatabase of transit routes and stops and updating the inventory of all such transit amenities.	To provide on-going support to the MPO's effort toward annual updates of the DCHC -MPO's Long Range Transportation Plan including work on the transit transit of the CTP and Transit elements of the 2045 MTP. The support would be in the form of transit data compilation, including service area maps, schedules and patron information as a component of the socio economic data needed for the regular update of the L RTP. A key objective is updating the transit element of the Coordinated Transportation Plan, CTP and MTP.	To prepare and Monitor the City's Fiscal programs including FTA and NCDOT grants. Apply for and administer grants in TEAM and also in City's Munis system. Monitor and ensure complete compliance with all financial procedures. Track all contracts with third party providers ensuring prompt payment and compliance of all purchases with state, federal and local laws.	To provide system-wide planning oversight of both the fixed route and paratransit services including the monitoring of AVL project, Zonar (pre-trip inspection device) Automatic Passenger counters (APC) On-board camera and video systems and GFI farebox input and output. Also, this task would include the conduct of FTA mandated NTD survey for fixed route system. Key objectives include: integrating APC data in to the transit GIS, summarizing and tabulating gathered AVL data, and updating the inventory of transit stops shelters and related amenities and also the development of geo-spatial mapping. Also, this task would prepare and monitor the City's Fiscal programs including FTA and NCDOT grants. Apply for and administer grants in TEAM and also in City's Munis system. Monitor and ensure complete compliance with all financial procedures. Track all contracts with third party providers ensuring prompt payment and compliance of all purchases with state, federal and local laws	To continue the program of developing transit plans for improving transit services as well as local area transportation as a whole. This would be achieved by identifying area of the City needing transit service and also improving the current level of service provided through on-going surveys. Additional tasks would include updating the transit element of the Coordinated Transportation Plan. Key objectives include: integrating APC data in to the transit GIS, summarizing and tabulating gathered AVL data, and updating the inventory of transit stops shelters and related amenities and also the development of geo-spatial mapping.	To provide ongoing education, service monitoring and system analysis and data compilation related to service changes in line with anticipation of Title VI Civil Rights mandates. This review would be done related to the DBBS program for the fixed route service in consultation with the FTA in order to ensure that all service changes over and above 10% are done with Title VI mandates in mind to ensure equity and fairness in the delivery of current fixed route transit service. This task will also include a checklist of certified ADA clientel, ADA service quality provided, ADA certification reviews, ADA service efficiency and effectiveness.	To seek out untapped patrons of the transit service through the use of aggressive public involvement and sustained marketing of the system. Also to engage the Public in all matters related to proposed service changes, to respond to the concerns of the public and to seek their input as it relates to all Title VI matters.	To provide overall transit system management and operations oversight of the fixed route and paratransit services, including service delivery, budgeting, service monitoring and reporting, personnel, short and long range system planning and system development as well as capital improvements. A key objective is developing our asset management system, performance measures and targets. Further, to work with City Transportation and Finance staff to develop federally mandated Asset Management including associated performance measures and targets.		
6-	Tangible Product Expected from the Transit system will include but not limited to the following:	Monthly and annual statistical data compiled as part of the ongoing service data collection. They include such reports as monthly ridership, monthly safety data, monthly service supplied information, AVL and APC data. This information is aggregated into OPSTATS report for the state, Monthly and annual NTD reports for the FTA, and monthly Workplan data for City Management staff as well as the MPO staff for use in the L RTP efforts.	Transit Maps, GIS Overlays, Socioeconomic data compilation associated with the transit operations such as OPSTATS report, NTD Monthly and Annual reports, Transit Budget summaries, Passenger amenities use and inventory report, vehicle use and operation, short, and long term plans and all others specific reports and analysis that the MPO desires as part of this overall on-going transportation planning program	Grants, budget documents, Purchase orders, Bid documents Ledgers, Fund balances and maintenance of asset and related inventory.	Weekly, Monthly, and annual system-wide ridership monitoring reports, APC and AVL Reports, NTD survey outcome, Grants, budget documents, Purchase orders, Bid documents Ledgers, fund balances and maintenance of asset and related inventory including geospatial maps and overlays.	Maps of service changes, Public input process and outcomes, Public hearings, City Council reports, service implementation plans and related processes.	Title VI document related to all service changes that require that we provide such analysis for review and approval by the FTA. Mailing list of all ADA clients for the purpose of reviews, approved and denied trips, wait time list, No Show list, No Show handling, suspensions and wait-time compilation catalogue.	Public meeting agenda, outcome and reports, Public hearing notices and summary reports, meetig attendance and related Council reports	Budget outlay, monthly and annual operational and ridership reports, service planning information, safety and training reports, service marketing and outreach programs personnel matters Asset Management and inventory reports.		
7-	Expected Completion Date of Product(s)	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	
8-	Previous Work	These activities are on-going and were completed in previous years as part of 5303 and 5307 funded task element	2016 Planning Work Program	Same as above. This is also an ongoing task element conducted by the fiscal program accountant.	On-going	On-going on an annual basis.	Same as above	On-going	Same as above		
9-	Prior FTA Funds	\$52,788	\$4,838	\$93,640	\$100,580	\$9,650	\$3,500	\$9,370	\$20,610	\$295,000	
10-	Relationship To Other Activities	Related to task III-E	This program is intended to support various MPO planning efforts related on the L RTP updates	Related to task III-E	Data retrieved would be used to disseminate service delivery and patronage information to transit management, City Council, FTA, NCDOT	These activities outlined also the MPO's overall FY18 Unified Work Program.	Related to task III-E	This effort relates to and supports the MPO's overall FY18 unified Work Program of enhancing transportation	Related to task III-E		
11-	Agency Responsible for Task Completion	GoDurham		GoDurham	GoDurham/GoTriangle	GoDurham/GoTriangle	GoDurham/GoTriangle		GoDurham		
12-	HPR - Highway - NCDOT 20%										
13-	HPR - Highway - FHWA 80%										
14-	Section 104 (f) PL Local 20%										
15-	Section 104 (f) PL FHWA 80%										
16-	Section 5303 Local 10%	\$8,076	\$326	\$326	\$2,610	\$653	\$326	\$326	\$5,207	\$17,850	
17-	Section 5303 NCDOT 10%	\$8,076	\$326	\$326	\$2,610	\$653	\$326	\$326	\$5,207	\$17,850	
18-	Section 5303 FTA 80%	\$64,608	\$2,608	\$2,608	\$20,880	\$5,224	\$2,608	\$2,608	\$41,636	\$142,800	
19-	Section 5307 Transit - Local 10%	\$5,278	\$483	\$9,364	\$20,118	\$969	\$330	\$937	\$2,061	\$19,550	
20-	Section 5307 Transit - NCDOT 10%	\$5,278	\$483	\$9,364	\$0	\$969	\$330	\$937	\$2,061	\$19,442	
21-	Section 5307 Transit - FTA 80%	\$42,224	\$3,864	\$74,912	\$80,464	\$7,752	\$2,800	\$7,496	\$16,488	\$236,000	

GoTriangle

	Task Description	Section 5303 Highway/Transit			Section 5307 Transit			Task Funding Summary				
		Local 10%	NCDOT 10%	FTA 80%	Local 20%	NCDOT 0	FTA 80%	Local	NCDOT	Federal	Total	
II A	Surveillance of Change											
	1 Traffic Volume Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Vehicle Miles of Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Street System Changes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Traffic Accidents	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Transit System Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	6 Dwelling Unit, Pop. & Emp. Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	7 Air Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	8 Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	9 Travel Time Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	10 Mapping	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	11 Central Area Parking Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	12 Bike & Ped. Facilities Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	13 Bike & Ped. Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II B	Long Range Transp. Plan (MTP)											
	1 Collection of Base Year Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Collection of Network Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Travel Model Updates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Travel Surveys	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Forecast of Data to Horizon year	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	6 Community Goals & Objectives	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	7 Forecast of Future Travel Patterns	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	8 Capacity Deficiency Analysis	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	9 Highway Element of th MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	10 Transit Element of the MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	11 Bicycle & Ped. Element of the MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	12 Airport/Air Travel Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	13 Collector Street Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	14 Rail, Water or other mode of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	15 Freight Movement/Mobility Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	16 Financial Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	17 Congestion Management Strategies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	18 Air Qual. Planning/Conformity Anal.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III C	Short Range Transit Planning											
	1 Short Range Transit Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-A	Planning Work Program											
	Planning Work Program	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-B	Transp. Improvement Plan											
	TIP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-C	Cvl Rgts. Cmp./Otr .Reg. Rqs.											
	1 Title VI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Environmental Justice	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Minority Business Enterprise	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Planning for the Elderly & Disabled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Safety/Drug Control Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	6 Public Involvement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	7 Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-D	Incidental Plng./Project Dev.											
	1 Transportation Enhancement Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Enviro. Analysis & Pre-TIP Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Special Studies	\$0	\$0	\$0	\$171,000	\$0	\$684,000	\$171,000	\$0	\$684,000	\$855,000	\$855,000
	4 Regional or Statewide Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III E	Management & Operations											
	1 Management & Operations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Totals		\$0	\$0	\$0	\$171,000	\$0	\$684,000	\$171,000	\$0	\$684,000	\$855,000	\$855,000

GoTriangle
TASK DESCRIPTIONS & NARRATIVES
FY 2019 UPWP

III-D-3 Special Studies

More detailed studies may include evaluations of alternative modes or alignments for cost, feasibility, environmental impact, and design. In a similar manner, special problems may arise in relation to major land use changes when large-scale traffic generators (hospitals, regional malls, etc.) will either be developed or closed. These land use changes could significantly affect the regional distribution and/or amount of traffic generated, which could require changes to the MTP to accommodate the newly forecasted growth. The extent, responsibility, and cost for a corridor or sub-area study, which should be conducted within the work plan of the TC, would be determined prior to its initiation.

Objectives

Support corridor planning functions including alternatives analysis activities, capital cost estimation, financial planning, operating cost estimations, transit expert studies, and bus and rail service plans.

Previous Work

Consultant reports, model runs, financial analysis, value capture reports

Proposed Activities

Studies may be conducted for corridors including alternatives analysis activities, capital cost estimation, operating cost estimations, financial planning, and transit expert studies for corridors, alignments, and bus and rail service plans.

Products

Technical reports on specific topics regarding corridors, routes, stations, stops, and policies.

Relationship to other plans and MPO activities

Advances planning for bus and rail services in major existing and emerging corridors.

Proposed budget and level of effort

Staff will work with contracted consultants in creating documents related to ongoing long range planning activities.

