

Chapter 2: DATA COLLECTION





DATA COLLECTION OVERVIEW

The data collection task was undertaken to identify and evaluate the essential data items needed for the development of the Hollywood/Pines Corridor Project. The data collected as part of this task will develop the project framework and assist in the identification of opportunities to implement congestion management and livability strategies along the Hollywood/Pines Corridor. A two-phase data collection approach was applied to the Hollywood/Pines Corridor Project:

- Phase I focused primarily on the assembly of available data
- Phase II focused primarily on the collection of field data

This chapter serves to document the efforts made to ensure a comprehensive approach to the Hollywood/Pines Corridor Project. The following sections outline and summarize the data collection task of the Hollywood/Pines Corridor Project.

PHASE I – AVAILABLE DATA COLLECTION

Phase I of the data collection task focused primarily on the assembly of available data. The data for Phase I were collected to provide the necessary background information about the corridor and to develop and support the evaluation and analysis of key traffic operational characteristics and land use attributes along the corridor. The effort also assisted in the identification the field data collected as part of Phase II by identifying data "gaps" and verifying initial assumptions made about the corridor. The Phase I data collection effort is summarized into the following three sub-sections:

- Document Review Summary
- Review of Current and Future Corridor Enhancements
- Review and Inventory of Available Data



DOCUMENT REVIEW SUMMARY

conducted as part of the Hollywood/Pines Corridor Project. The document review served two main goals: to develop a better understanding of what planning tools have been examined in the past and what tools are currently available (to avoid "reinventing the wheel"), and to provide the necessary policy and informational background for the development of the project. Table 2-1 provides a summary of the reviewed documents and identifies key concepts, data, and resources available that will support the Hollywood/Pines Corridor Project. The following documents were reviewed during this task.

LIST OF REVIEWED DOCUMENTS

- Broward 2035 Long Range Transportation Plan
- Broward County Transit FY 2012 Transit Development Plan Annual Update
- Broward County, Transit Housing Oriented Redevelopment (THOR) Initiative
- Subtropical Sustainable Transit/Housing Oriented Redevelopment Pilot Study
- Oakland Park Boulevard Corridor Study
- FDOT A Framework for Transit-Oriented Development (TOD) in Florida
- Broward County, County-Wide Community Design Guidebook

- South Florida East Coast Corridor Transit Analysis:
 Conceptual Alternative Analysis/Environmental Screening
 Report
- SFRTA Fast Start Plan
- SEFTC Southeast Florida Passenger Rail Evaluation
- Broward County, 2011 Comprehensive Plan Evaluation and Appraisal Report (EAR)
- Broward County Comprehensive Plan
- Broward County Land Use Plan
- City of Hollywood Comprehensive Plan
- City of Hollywood Citywide Master Plan
- Downtown Hollywood Master Plan
- Hollywood Beach CRA Master Plan
- City of Pembroke Pines Comprehensive Plan
- City of Pembroke Pines Streetscape Design Guidelines
- FDOT SR 93/I-75 Project Development and Environmental Study, Project Development Summary Report



Table 2-1: Documents Review

Document/Program Reviewed	Study/Program Details		5 (6) 1 (5	Available Data/Resources and Key	
	Lead Agency/ Department	Document Date	Purpose of Study/Program	Consideration to Support the Corridor Plan	
Broward 2035 Long Range Transportation Plan (LRTP)	Broward MPO	2009	 Identify goals and policies to direct long-range transportation planning. Identify long-range cost needs and affordable networks for roads, transit, bicycle, and pedestrian modes. Promote the safe, secure, and efficient movement of people and goods by providing balanced transportation choices that support superior mobility through improvements in all modes with a focus on mass transit and transit-supportive land use in key corridors and mobility hubs. 	 Policy guidance for long-range planning. Existing and future road, transit, bicycle, trail, and pedestrian networks. Identification of key corridors and mobility hubs. Recommended combining the Congestion Management Process and Livability Planning Initiative. Policy guidance on the integration of transit and transit-supportive land uses. Identification of mobility hubs and premium transit corridors. 	



Document/Program	Study/Program Details			Available Data/Resources and Key	
Reviewed	Lead Agency/ Department	Document Date	Purpose of Study/Program	Consideration to Support the Corridor Plan	
Transit Development Plan (TDP)	Broward County Transit	Annual update 2012	 Update of the FY 2009–18 TDP. Evaluate existing transit services and identify future public transportation needs. Develop a 10-year implementation and financial plan to strategically guide public transportation in Broward County. 	 10-Year Transit Implementation Plan (Needs Plan) for Broward County Transit. Evaluation of prior TDP's implementation progress. Guidance on the development of transit needs policy. Identification of recent and future capital improvements. Identification of changes to existing and future transit service. 	
Broward County Transit/Housing Oriented Redevelopment (THOR) Initiative	Broward MPO	2006	Develop a strategy to establish vibrant transit corridors throughout the county while protecting existing residential neighborhoods.	 Laid foundation for transit-oriented land use patterns through the development of a countywide Community Design Guidebook and the creation of three new land-use designations. Guidance on leveraging public infrastructure investments to attract private investment/re-investment. 	
Subtropical Sustainable – Transit/Housing Oriented Redevelopment Pilot Study	Broward County Planning and Redevelopment	2008	Development of sustainable, context-sensitive design strategies for redevelopment and urban design.	 Summary of the Transit Housing Oriented Redevelopment (THOR) Pilot Study Real-world examples of sub-tropical climate integration of transportation, land use, and design. Enhancement of vision and application of sustainable, context-driven planning and design principles. 	



Document/Program	Study/Program Details				Available Data/Resources and Key	
Reviewed	Lead Agency/ Department	Document Date		Purpose of Study/Program	Consideration to Support the Corridor Plan	
Oakland Park Boulevard Corridor Study	FDOT District IV/ Broward MPO	November 2009	•	Promote transit access and the development of strategies for implementing a vision for transitand housing-oriented redevelopment along the 3.5-mile corridor along Oakland Park Boulevard between NW 31st Avenue and Dixie Highway. Link FDOT's modal development efforts with Broward County Transportation Department's transit planning and the THOR initiative.	 Policy guidance for developing incentives for and facilitating multimodal improvements. Recommended land use plan and land development code revisions and strategies for achieving economic development and housing goals along the corridor. Examples of transit-supportive infrastructure improvements. 	
A Framework for Transit-Oriented Development (TOD) in Florida	FDOT/Florida Dept. of Community Affairs	March 2011	•	Address how transit-oriented development can be a part of transforming Florida's existing auto-oriented, largely suburban patterns of development into more compact, livable patterns that support walking, biking, transit, and shorter-length auto trips.	 Guidance on key consideration and questions to be addressed when dealing with TOD and transit planning. Provide framework for TOD place types addressing land use and design considerations for transit service areas . 	



Document/Program	Study/Program Details		Available Data/Resources and Key
Reviewed	Lead Agency/ Department	Document Date	Purpose of Study/Program Consideration to Support the Corridor Plan
Broward County County-Wide Community Design Guidebook	Broward County	July 2007	 Provided foundation for THOR studies. Develop guidebook for establishing a "sense of place" for Broward County. Achieve the following goals and principles: Sustainable Transportation Choices Accommodation for a Diverse Population Economic Vitality and Sustainability Sense of Place Guidance and considerations for development of policy related to integration of transportation and land use. Guidance on development of performance guidelines, especially as related to pedestrian mobility. Policy guidance for integration of transportation and land use. Key concepts related to urban design, transportation and sense of place to assist in development of corridor plan.
South Florida East Coast Corridor Transit Analysis: Conceptual Alternative Analysis/ Environmental Screening Report	FDOT	January 2009	 Provide description of early planning activities associated with alternatives analysis for South Florida East Coast Corridor Transit Analysis study. Provide background information and general knowledge to early planning efforts that have taken place along Florida East Coast (FEC) rail corridor. Provide background information and general knowledge to early planning efforts that have taken place along Florida East Coast (FEC) rail corridor. Provide background information and general knowledge to early planning efforts that have taken place along Florida East Coast (FEC) rail corridor.



Document/Program	Study/Program Details				Available Data/Resources and Key	
Reviewed	Lead Agency/ Department	Document Date		Purpose of Study/Program	Consideration to Support the Corridor Plan	
SFRTA – Fast Start Plan	SFRTA	2011	•	Provide Southeast Florida with Mobility, Economic Development, and Transportation Choice through reintroduction of passenger rail service in FEC corridor between downtown Miami and Jupiter, integration with Tri-Rail.	 Identify potential new rail service and station locations within FEC corridor. Guidance on development of future transit needs policies. 	
Southeast Florida Passenger Rail Evaluation	Southeast Florida Transportation Council	July 2012 (draft)	•	Identify ways in which a more regional planning and decision-making process could be established, with greater transparency and clear agency roles. Identify similarities and differences between two proposals to re-establish passenger service of the FEC rail corridor. An evaluation of the SFECC and SFRTA Fast Start Plan	Provide background information and general knowledge related to planning efforts that have taken place along FEC rail corridor.	



Document/Program	Study/Program Details			Available Data/Resources and Key	
Reviewed	Lead Agency/ Department	Document Date	Purpose of Study/Program	Consideration to Support the Corridor Plan	
Broward County 2011 Evaluation and Appraisal Report (EAR)	Broward County	February 2011	 Address County's progress in achieving goals, objectives and policies identified in County's Comprehensive Plan. Address major issues identified by County: Planning for Climate Change Water Supply Planning Mobility and Land Use Population Growth and Impacts on Public Services Housing Challenges 	Policy guidance and implementation strategies for coordinating land use and transportation planning.	
Broward County Comprehensive Plan	Broward County	2006	 Vision of what Broward County strives to be in the future. Primary policy document concerning land use, transportation, and other planning matters for Broward County. Required by Florida law; must be consistent with state and regional plans. 	 Policy framework for future direction of key public service areas, including land use and transportation. Goals, objectives, and policies contained in each Element of Comprehensive Plan. 	



Document/Program	Study/Program Details				Available Data/Resources and Key	
Reviewed	Lead Agency/ Department	Document Date		Purpose of Study/Program	Consideration to Support the Corridor Plan	
Broward County Land Use Plan	Broward County	2010	•	Creates specific, measurable, intermediate end that is achievable and marks progress towards County's future land use goals.	Goals, objectives, and policies related to the Countywide Land Use Plan categories.	
City of Hollywood Comprehensive Plan	City of Hollywood	January 2008	•	Primary policy document concerning land use, transportation, and other planning matters for Broward County. Required by Florida law; must be consistent with State and regional plans.	 Provides policy framework for future direction of key public service areas, including land use and transportation. Goals, objectives, and policies contained in each Element of Comprehensive Plan. 	
City of Hollywood Citywide Master Plan	City of Hollywood	2001	•	Define citywide vision while establishing series of guiding principles and strategies to enhance and sustain existing quality of life while focusing interest and efforts in areas that offer potential for growth and development. Create urban lifestyle options, improve mobility, and increase the economic well-being of the city.	 Policy guidance related to issues dealing with multimodal transportation, housing, land use, development/redevelopment, and environmental factors. Guiding principles used to establish citywide vision. 	



Document/Program	Study/Program Details			Available Data/Resources and Key
Reviewed	Lead Agency/ Department	Document Date	urpose of Study/Progra	Consideration to Support the Corridor Plan
Downtown Hollywood Master Plan	City of Hollywood	NA	Istrate overall vision for Downtown Hollywood. The as guide to ensure the velopment and capital provements support for mmunity's vision and the wintown Hollywood evolution area-wide commendations that prostainable growth and enality of life in downtown llywood.	sustainability, connectivity, and mobility. at lives in
Hollywood Beach CRA Master Plan	City of Hollywood	December 2007	ovide for development of stainable, mixed-use vironment that embodi- iqueness of Hollywood omote development of destrian-oriented, mixe mmunity.	related to mobility and parking. • Zoning and design recommendations. Beach.



Document/Program	Study/Program Details				Available Data/Resources and Key	
Reviewed	Lead Agency/ Department	Document Date		Purpose of Study/Program	Consideration to Support the Corridor Plan	
City of Pembroke Pines Comprehensive Plan	City of Pembroke Pines	1999 (amended 2011)	•	Primary policy document concerning land use, transportation, and other planning matters for Broward County. Required by Florida law; must be consistent with state and regional plans.	 Provides policy framework for future direction of key public service areas, including land use and transportation. Goals, objectives, and policies contained in each Element of Comprehensive Plan. 	
City of Pembroke Pines Streetscape Design Guidelines	City of Pembroke Pines	April 2012 (draft)	•	Develop set of streetscape guidelines to attract economic revitalization, enhance livability and improve overall aesthetics of the city. City's first step in initiating a comprehensive revitalization.	 Mobility guidelines and recommendations that include pedestrian and bicycle facilities standards for all new roads; establish minimum transit facility criteria. Guidance in relationship between aesthetics and economic viability, land use, mobility, and safety. 	
SR 93/I-75 PD&E Study – Project Development Summary Report	FDOT	March 2012	•	Document results of I-75 PD&E Study and summarize pertinent information for recommended alternatives, including potential impacts project may have on natural, social, and physical environment.	Identification of potential design alternatives along I-75 corridor.	



REVIEW OF CURRENT AND FUTURE ROADWAY/MOBILITY ENHANCEMENTS

State (FDOT), County, and municipal plans and programs were reviewed for ongoing, committed, and planned transportation (and relevant civil) infrastructure projects. Table 2-2 provides a summary of the enhancements identified with the Hollywood/ Pines Corridor Project study area. For the purpose of evaluating existing conditions, the available design plans for "committed" projects were reviewed and are considered the "effective" existing condition for future roadway analyses within the study area.



Table 2-2: Ongoing and Future Roadway/Mobility Improvements

Project Type	Source	Project ID	Project Extent & Description	Project Date
		422796-1/-2	 I-95 – Golden Glades (Miami-Dade County) to Broward Blvd Extension of HOT lanes 	2012 (Construction)
		406095/99-1	 Turnpike widening & modify interchange at Hollywood Blvd Widening and interchange modification 	2012 (PE/ROW)
	FDOT 5-Year Work Program	419343-1 430763-2	 I-75 – north of Homestead Extension of the Florida Turnpike (HEFT) to I-595 Preliminary Engineering for future capacity 	2012 (PD&E/PE)
		227774-1 227775-1	 US 441/SR 7 – north of Hallandale Beach to south of Stirling Rd Add lanes and reconstruct 	2014 (Construction)
Capacity		423031-1	 US 27/SR 25 – through Pembroke Pines, Southwest Ranches, and Weston Resurfacing plus – drainage improvements and widening turn lanes at Pines Blvd, Johnson St, Sheridan St, and Griffin Rd 	2012 (Construction)
		NA	Pines Blvd @ University DrIntersection improvement	2016–2020 (Cost Feasible Plan)
	Broward MPO 2035 LRTP Cost Feasible Plan	NA	Pines Blvd @ Flamingo RdIntersection improvement	2016–2020 (Cost Feasible Plan)
		NA	 US 441/SR 7 @ Hollywood Blvd Intersection improvement 	2016–2020 (Cost Feasible Plan)



Project Type	Source	Project ID	Project Extent & Description	Project Date
		421659-1	 SR 820/Pines Blvd – Douglass Rd to 64th Way (Pembroke Pines) Includes widening of shoulders, installation of sidewalks 	2011–2013 (Construction)
FDOT 5-Yea	FDOT 5-Year	427007-1	SR 820/Hollywood Blvd – east of 64 th Way to east of NW 61 st Ave (Hollywood)	2013 (Construction)
Resurfacing	Work Program	427006-1	• SR 820/Pines Blvd – east of SW 196 th Ave to east of 150 th Ave	2013 (Construction)
		430603-1	US 27/SR 25 – Miami-Dade county line to SR 818/Griffin Rd	2016 (Construction)
		NA	 Pines Blvd – east of Dykes Rd to NB I-75 on-ramp Pedestrian enhancements 	2016–2020 (Cost Feasible Plan)
Bicycle &	Broward MPO 2035 LRTP Cost	NA	 Hollywood Blvd – 64th Ave to 46th Ave Bicycle enhancements 	2016–2020 (Cost Feasible Plan)
Pedestrian	Feasible Plan	NA	 Hollywood Blvd – City Hall Circle to 17th Ave Bicycle enhancements 	2016–2020 (Cost Feasible Plan)
		NA	 Hollywood Blvd – 46th Ave to eastern I-95 on-ramp Bicycle enhancements 	2016–2020 (Cost Feasible Plan)
Coloti	FDOT 5-Year	423031-1	• US 27/SR 25 – SR 820/Pines Blvd to SR 818/Griffin Rd	2012 (PE)
Safety	Work Program	428275-1	SR 820/Hollywood Blvd at 35th Ave	2013 (Construction)



Project Type	Source	Project ID	Project Extent & Description	Project Date
Public	FDOT 5-Year Work Program	429575-1	 US 1/SR 5 – Miami-Dade county line to Broward Blvd PTO studies 	2013 (Planning)
		431771-1	 SR 817/University Dr – Miami-Dade county line to SR 834/ Sample Rd PTO studies 	2013 (Planning)
		429576-1	US 441/SR 7 Transit CorridorUrban corridor improvements	2014 (Planning)
		431770-1	 SR 820/Hollywood Blvd/Pines Blvd – I-75 to Young Circle PTO studies 	2016 (PD&E)
Transportation	Broward MPO 2035 LRTP Cost Feasible Plan	NA	 Hollywood/Pines Blvd – I-75 to SR A1A Premium High Capacity Transit 	2026–2030 (Cost Feasible Plan)
		NA	US 441/SR 7Premium high capacity transit	2026–2030 (Cost Feasible Plan)
		NA	University DrivePremium bus rapid transit	2026–2030 (Cost Feasible Plan)
		NA	SR A1APremium bus rapid transit	2026–2030 (Cost Feasible Plan)
	FDOT 5-Year Work Program	424496-1	 SR 820/Pines Blvd – US 27 to University Dr Lighting enhancement 	2013 (PE & Construction)
Other/ Miscellaneous		429687-1	 Broward County Non-Intrastate Highways ATMS Deployment in Southern Broward County 	2013 (Construction)
		431156-1	 SR 823/Flamingo Rd – south of Pembroke Rd to south of Griffin Rd Road/slope protection 	2015 (Construction)



REVIEW AND INVENTORY OF AVAILABLE DATA

The third component of the Phase I data collection was to obtain data items that relate to and aid in the analysis and development of the Hollywood/Pines Corridor Project. State, county, municipal, and other entity agencies and departments were contacted to request needed data items. The obtained data items were organized into two categories: spatial data and informational data.

The obtained spatial data items consist mainly of geographical information system (GIS) shapefiles but also include studies, plans, and projects that correspond to a specific geographic location that could be geocoded to a map. A geodatabase was created to store the obtained spatial data items. Table 2-3 lists the data that have been complied into the geodatabase and provides a brief summary of the items, the source of the data, and the date it was obtained.

Informational data items mainly consist of documents that either directly or indirectly relate to the development of the Hollywood/Pines Corridor Project. These items include many of the documents that are listed in Table 2-1, Documents Reviewed. The obtained informational data items have been indexed within an Excel document that provides a link to an electronic version of the document.



Table 2-3: Summary of Geodatabase Contents

Title	Description	Source	Date Obtained
2035 LRTP CF Plan BCT Local Routes	2035 LRTP Cost Feasible BCT local routes	Broward MPO	July 2012
2035 LRTP CF Plan Bicycle Projects	2035 LRTP Cost Feasible Plan bicycle facility projects	Broward MPO	July 2012
2035 LRTP CF Plan Greenways	Location of existing and proposes greenways from the 2035 LRTP Cost Feasible Plan	Broward MPO	July 2012
2035 LRTP CF Plan Pedestrian Projects	2035 LRTP Cost Feasible Plan pedestrian projects	Broward MPO	July 2012
2035 LRTP CF Plan Premium Transit	2035 LRTP Cost Feasible Plan Premium Transit Projects	Broward MPO	July 2012
2035 LRTP CF Plan Roadways	2035 LRTP Cost Feasible Plan roadway enhancements	Broward MPO	July 2012
Aerial	2010 high resolution aerial of Broward County	Broward MPO	July 2012
Airports & Aviation	Aircraft landing facility locations and attributes	Florida Geographic Database Library	June 2012
Capacity Report	2009 and 2035 Roadway Capacity and Level of Service Analysis	Broward MPO	June 2012



Title	Description	Source	Date Obtained
Census Block Groups	Geographic area containing groups of Census Blocks used for summarizing Census Data	U.S. Census Bureau	June 2012
Census Blocks	Geographic area used for summarizing Census Data	U.S. Census Bureau	June 2012
Census Tracts	Geographic area containing Census Blocks and Block Groups used for summarizing Census Data	U.S. Census Bureau	June 2012
Cities	A general delineation of city limits of all communities and unincorporated areas in Broward County	Broward County GIS	June 2012
City Halls	Location of municipal government command facilities	Broward County GIS	June 2012
Colleges	Local Colleges and Universities in Broward County	Broward County GIS	June 2012
County Boundary	Dataset providing location/boundary and attribute information on all 67 Florida counties	Florida Geographic Database Library	June 2012
Crash Data	Five-year crash history (2007–2011)	FDOT - Crash Analysis Reporting System (CARS)	June 2012
Developments of Regional Impact	Developments of Regional Impact (DRIs) information from the South Florida Regional Planning Council	Broward County GIS	June 2012
Future Land Use	Future land use categories as determined by the Broward County Future Land Use Plan	Broward County GIS	June 2012



Title	Description	Source	Date Obtained
Hallandale, Hollywood Sidewalks	Sidewalk coverage along the streets in the southeastern portion of the County	Broward MPO	July 2012
Hollywood Route 2012	Proposed SFRTA Hollywood Shuttle Route	SFRTA	August 2012
Hospitals	Major Health Facilities in Broward County	Broward County GIS	June 2012
Libraries	Broward County public libraries	Broward County GIS	June 2012
May 2012 Bus	Existing Broward County Transit Bus Routes with operational and ridership data	Broward County Transit	July 2012
May 2012 Community Bus	Broward County Transit administered community bus routes	Broward County Transit	July 2012
May 2012 Stops	Existing Broward County Transit Bus Stops with ridership and stop amenity data	Broward County Transit	July 2012
Mobility Hubs	Location and Type of Mobility Hub as identified in the 2035 LRTP	Broward MPO	July 2012
Parcels	Parcel level data containing existing values and property use	Broward County Property Appraiser	September 2011
Parks (State, County, and City)	Dedicated park land	Broward County GIS	June 2012



Title	Description	Source	Date Obtained
Rails	Rail Network	Florida Geographic Database Library	June 2012
Roadway Inventory	Depicts the County's major roadways and provides data including functional classification, speed limits, and number of lanes	Broward MPO	July 2012
Schools	Educational facilities K-12	Broward County GIS	June 2012
Study Area Boundaries	Area within a half-mile of the Hollywood/Pines Blvd Corridor	Tindale-Oliver & Associates, Inc.	Created June 2012
TIP Highway Improvements	FY 2012/13–FY 2016/17 Transportation Improvement Program (TIP) Projects	Broward MPO	July 2012
Traffic Analysis Zones (TAZ)	Traffic Analysis Zones required for long-range transportation modeling purposes. Demographic, socio-economic, and other information can be summarized by TAZs	Broward MPO	July 2012
Traffic Signals	Location of traffic signals in Broward County	Broward MPO	June 2012
Trafficways (Right-of-Way)	A summary of the available right-of-way along the major roadways in Broward County	Broward County GIS	June 2012
Transit Stations	Location of fixed-guideway transit facilities	Florida Geographic Database Library	June 2012
Truck Volume	Average Annual Daily Traffic (AADT) for trucks	Broward MPO	July 2012



Title	Description	Source	Date Obtained
Water	Representation of surface water	Broward County GIS	June 2012
ZIP Codes	ZIP code boundaries	Broward County GIS	July 2012



PHASE II – FIELD DATA COLLECTION

The second phase of data collection involves the identification and collection of necessary field data that were either not obtained through Phase I or require further data to validate existing conditions.

FIELD DATA COLLECTION PLAN

The collection of field data is expected to focus primarily on conducting operational and infrastructure-related data collection and will be used to complete the analysis and evaluation of the corridor and the feasibility of possible congestion management/safety projects. Although the majority of field data collection is expected to occur following the initial evaluation and analysis of key traffic operational characteristics and land use attributes along the corridor, the process for evaluating the following data has already begun:

- Evaluation of the availability/usability of traffic operations data collected along the corridor as part of Phase I.
- Preliminary inventory of major roadway cross-sections and "neighborhood collector" streets to determine the extent of existing conditions data collection necessary to establish multimodal Quality/Level of Service.

The following are potential data items that may be collected as part of the Phase II "field" data collection:

- Typical roadway sections
- ADA field assessments
- Travel time data
- Driveway or local roadway turning movement counts

