

Volusia County MPO

March 2008



Hurst Elementary Replacement

Bicycle and Pedestrian Safety Review Study



Introduction

Hurst Elementary School Replacement is slated to replace the existing Hurst Elementary School, currently located in Holly Hill. The replacement site is located near a new residential development west of LPGA Boulevard in Daytona Beach and is part of the Consolidated - Tomoka Development. Houses were under construction during the time of field site visits, with sidewalks built along developed lots and common areas. The new school is planned to open in August 2009 with a capacity of 735 students.

Half of the students planned to attend Hurst Elementary School Replacement are expected to be bused from the existing Hurst Elementary School attendance zone. This Study will primarily review bicycle and pedestrian site access for students within the nearby developments. The most significant safety issue will be crossing LPGA Boulevard, possibly in two places.

All critical sidewalks are planned within the estimated walk zone. There are no sidewalks along either side of LPGA Boulevard but they are not needed for student access to the school site. School District staff has coordinated well with the developer to provide sidewalks along the entrance road to the school. Additionally, the planned "shortcut" to the rear of the school from adjacent neighborhoods may increase the number and frequency of students walking or riding bicycles to and from school.



Figure 3.3.1

Hurst Elem. School Replacement – Summary Sheet

School Address: Tournament Drive Extension (Tram Road)
Daytona Beach, FL

City Representative: Paul McKittrick, Deputy City Manager
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School District Representative:
Saralee Morrissey, AICP
Phone: 386-947-8786, ext. 50772
Email: smorriss@volusia.k12.fl.us

Estimated Opening Date: August 2009

Planned Student Capacity: 735

Site Plan: Provided

School Status: A preliminary site plan for the school layout was provided. Opening Date is planned for fall 2009. As of early 2008, the project is permitted and out for bid.

Estimated Number of Students in Walk Zone: Currently 15, expected to increase as new development is completed. For purposes of this Study, the estimated potential walk zone indicated on the Master Plan reflects a potential walk zone bordered by major roadways. However, a final walk zone for this school has not been determined by school district staff at this time.

Number of Bicycle and Pedestrian Crash Events within the estimated potential Walk Zone (2004-2006): Not applicable.

Votran Route in Walk Zone: No

Percentage of Title One Students: unknown, planned school

Possible Future Crossing Guard Locations:

- LPGA and Tournament Drive Extension
- LPGA and International Tennis Drive

Planned Road, Sidewalk or other Improvements:

- The developer (Consolidated – Tomoka Land Co.) plans to construct Tournament Drive Extension from LPGA to the new school site and will include a wide sidewalk on the south side and a 5' wide sidewalk on the north side.
- Volusia County is planning to install turn lanes at LPGA and Tournament Drive.
- A fire station is planned for a site on LPGA on the east side of LPGA and north of Tournament Drive.

Planned Development: Additional residential development is planned to the east

of the school site.

Hazardous and Unique Conditions (Source: School District Data February 2008): Not applicable at concept level.

Proposed Priority Project (For BPAC consideration): None, all critical sidewalks are planned for future construction.

Findings and Recommendations

General Findings: At this time, there are no houses constructed within one mile of the school. The new housing is concentrated to the south of the development, with sidewalks being built at the time of individual home construction. Additional housing is planned for the northern section of the existing development and also to the east of the school site.

Most likely, LPGA Boulevard will act as a barrier to students living east of the roadway who wish to walk or ride bicycles to school. A crossing guard would be required to provide a safe crossing for these students. At this time, the estimated number of students living to the east of LPGA Boulevard within the two mile radius is fewer than ten. Due to the distance from the school and the need to cross LPGA Boulevard, it is unlikely that these students will walk or ride to school.

Finding: The concept plan for Hurst Elementary School shows a sidewalk along school frontage on the south side of Tournament Drive Extension and a sidewalk south of the school building connecting to planned residential development. No sidewalk connection is shown on the west side of the school site to the front entrance of the building. Future development to the west of the school may generate students who need sidewalk access west of the western most school entrance.

Recommendation: To plan for the possibility of future residential development west of the school site, the school district may wish to provide a level, open area for the construction of a future sidewalk. The proposed sidewalk, if constructed, should be located on the west side of the western school entrance, a minimum 5' off the access drive. An eight foot wide sidewalk will accommodate bicyclists and walkers.

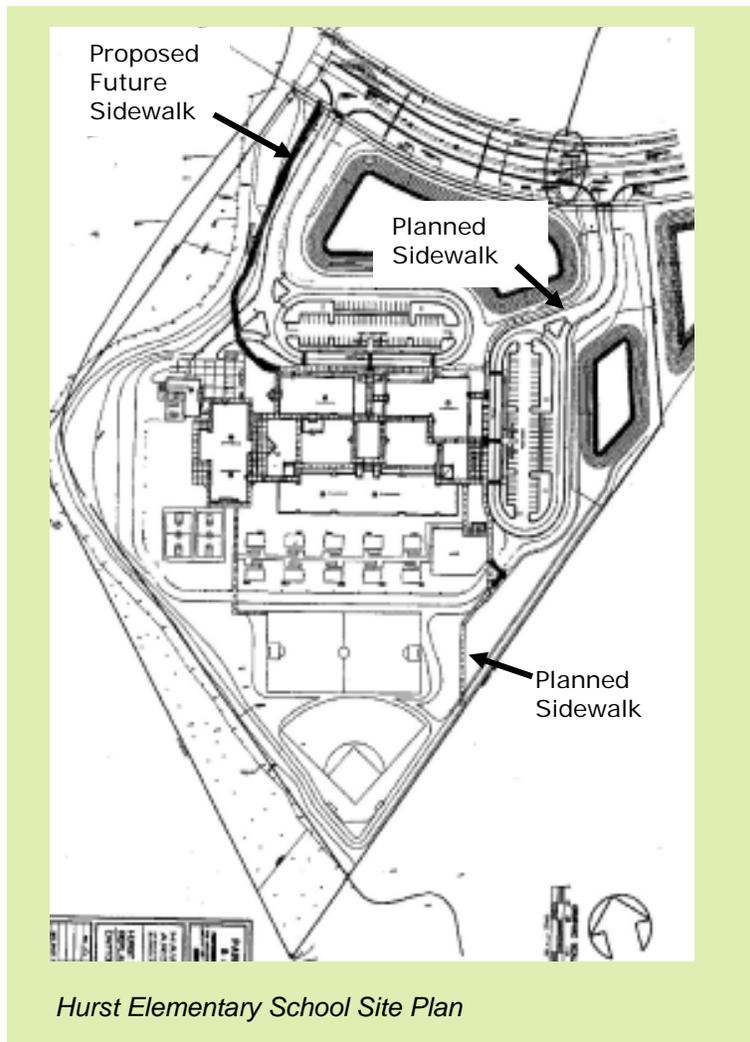


Figure 3.3.2

Finding: The concept plan for Hurst Elementary School indicates a planned sidewalk to the west of the eastern entrance and a sidewalk exiting to the southeastern side of the site to future residential housing.

Recommendation: Any development adjacent to the school will need to connect its internal sidewalk system to the school's planned sidewalk.



Bayberry Lakes Boulevard terminates at a future connection to the school site.

Finding: The planned access road to the school (Tournament Drive Extension) is located directly across from the northern entrance to the LPGA International development. A wide sidewalk will be constructed on the south side of the new road and a five foot wide sidewalk will be constructed on the north side. Tournament Drive east of LPGA Boulevard has an existing wide sidewalk on the south side and no sidewalk on the north side. The City of Daytona Beach would like a traffic signal at this intersection.



The site of the future access road from LPGA Blvd.

Recommendation: The construction of the northern sidewalk on Tournament Drive would serve few students but should be considered to provide a complete sidewalk network. The future cross walk should be located on the south side of Tournament Drive to place students on the same side of the road as the school site and to provide a continuous sidewalk system.

Finding: Access to the residential development (Bayberry Colony) from LPGA Boulevard is on International Tennis Drive, directly across the street from International Golf Drive. It is unknown at this time if a school crossing will be located at this intersection. The actual route for students living east of LPGA Boulevard and south of International Golf Drive may exceed the two-mile door-to-door distance to the school. The City of Daytona Beach would like a traffic signal at this intersection.



LPGA Blvd. at International Golf Drive

Recommendation: If it is determined that a school crossing will be located at this intersection, the crosswalk should be located to the north of International Tennis Drive to connect with the planned sidewalk to the

southern access of the school site from Bayberry Lane.

Finding: Sidewalks are constructed along common areas and with the construction of each house, creating an incomplete sidewalk system.

Recommendation: Require developers to construct sidewalks with the roadways to ensure a complete sidewalk system. This approach eliminates gaps caused by undeveloped lots.



There is a sidewalk gap along undeveloped lots within Bayberry Colony.

Master Plan

The following Bicycle and Pedestrian Master Plan specifies a network of sidewalks and trails that, if implemented, will greatly increase the convenience and safety of travel for pedestrians and bicyclists. A 24"x36" fold-out map is included as a deliverable with this Study.

The Bicycle and Pedestrian Master Plan includes the following information:

Existing Conditions:

- Existing Trails from County GIS and field review (solid green line)
- Existing Wide Sidewalk 6-8' from field review (solid blue line)
- Existing Sidewalks 3-5' from field review (solid red line)

Planned Conditions:

- Estimated Future Walk Zone from discussions with Volusia County School District staff (light tan)
- Planned State of Florida sidewalk and roadway improvements from FDOT website, State or County GIS (medium blue roadway centerline)
- Planned Volusia County sidewalk and roadway improvements from County GIS data (medium green roadway line)
- Planned trail (long dashed dark green line)
- Planned wide sidewalk (long dashed blue line)
- Planned sidewalk (long dashed red line)
- Planned Crossing Guard Location (orange cross)

Recommendations of this Study:

- Proposed Trails (dashed dark green line)
- Proposed Sidewalks 6-8' wide (dashed blue line)
- Proposed Sidewalks 5' (dashed red line)

This Master Plan and supplemental information supplied within the Implementation Report are meant as a guideline for sidewalk and trail planning. The Master Plan is not an engineering document.

