Lakeshore Estates Roadway and Drainage Improvements  PID 001177A

Public Information Meeting

March 1, 2018       6:00 p.m. – 8:30 p.m.
Palm Harbor University H.S., Palm Harbor
1. Background
2. Schedule
3. Proposed Improvements
4. Driveway Adjustments
5. Construction Sequence & Temporary Impacts
1 Background
Background

- Private development began in late 1950’s
- Developer used dredged materials for fill of lots and streets (organic/clay – settling)
- Note wetland area in north portion of development
- Lake level controlled by sinkhole to Tarpon Springs
- Many lot elevations near street elevations
- Street profiles flat leading to poor drainage
- Lake level controlled by SWFWMD structure -2.6’ street elevations low as 3.47’ (Freshwater)
- High water table result of soils and seawalls
- Road base material (lime rock) failure due to high water table and pooling water (no road underdrains)
- Some inlets set back from streets and restricted by turf
Background

- 2008 - Pinellas County received drainage complaints
- August 2015 - A Preliminary Engineering Report (PER) was completed identifying drainage (8 streets) and roadway (14 streets) improvements:

**Drainage & Roads**
- N. Canal Drive
- Citrus Drive
- S. Canal Drive
- Freshwater Drive
- Maple Drive
- Cypress Drive
- Lake Shore Drive
- Lake Shore Drive N

**Road's Only**
- Oak Avenue
- Ridge Street
- Lake Shore Drive E
- Lake Shore Drive W
- East Canal Drive
- West Canal Drive
Background

- The PER included four primary recommendations to be refined and incorporated into the final design for the project area:
  - Construct curb & gutter where non existent in order to maximize the effectiveness of the improved roadway drainage system
  - Expand the existing storm drain system (without adding additional outfalls to the adjacent canals)
  - Mill & Resurface all streets
  - Provide full depth pavement reconstruction in selected areas to address pavement failures
Background

- **Dec 2015** – Begin design and permitting of improvements to 5 streets, based on drainage priorities and budget *(Remaining areas to be addressed in Penny IV program)*
  - estimated budget was $858,890
  - 15 month design to bid
- **June 2016** – testing of road base revealed the extent of street reconstruction was necessary.
  - estimated budget $2,060,795  *(just drainage and road improvements)*
  - several month delay in road reconstruction design and securing of additional funding
- **2017** – redesign for 1) expanded road reconstruction sections, 2) sewer line replacement and 3) repaving of remaining streets
  - total project estimated budget $2,731,474
- **February 2018** – final plans and bid package preparation
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Schedule
Schedule (preliminary)

- Feb 2018 - construction plans, permits, bid package, funding ($2,731,474)
- Mar 2018 - advertisement of construction bid
- May 2018 - construction bids received, reviewed and recommendation to BCC
- Jun 2018 - BCC award contract
- Jul 2018 - contractor to provide all necessary documents (insurance, bonds, etc.)
- Jul 2018 - pre-construction meeting with contractor & County
- Aug 2018 - second public meeting with contractor to review construction approach
- Aug 2018 - start construction*
- Aug 2019 - project complete*

Note: Construction Schedule will be updated at Construction NTP
Proposed Drainage/Road Reconstruction Improvements
Major Improvements include:

- Roadway
  - Pavement Milling & Resurfacing
  - Pavement Reconstruction
Major Improvements include:

- Roadway
  - Pavement Milling & Resurfacing
  - New curb or gutter
Major Improvements include:

- Roadway
  - Pavement Reconstruction and curb & gutter
Major Improvements include:

- Drainage
  - New Curb & Gutter
  - Expanded Storm Drain System
Driveway Adjustments
Driveway Adjustments

- 218 existing driveways
  - Concrete
  - Decorative Paver
  - Graded

- Contractor will replace driveways in-kind* up to right-of-way (as appropriate)

*Pavers will be removed and set aside, concrete base provided
Driveway Adjustments

- Portion of driveways must be reconstructed to accommodate:
  - Curb and Gutter construction / match new back of curb elevation
  - storm drain construction

- Contractor will only remove what is necessary

- Max. reconstruction to the R/W
Driveway Adjustments

- Replace curb & Gutter
Construction Sequence & Temporary Impacts
General Construction Sequence

- Install Erosion Control Devices (staked silt fence, inlet protection, etc.)
- Clearing & Grubbing
  - Includes removal of irrigation, landscape & hardscape items from R/W where in conflict with proposed construction
- Sawcut driveways
- Construct stabilization under proposed curb & gutter
- Construct curb & gutter and drainage structures (all streets anticipated)
- Reconstruct driveways

- Remove existing pavement and roadway base (by section)
- Construct geosynthetic and crushed concrete base (by section)
- Construct 1st lift of asphalt (by section)
- Construct final lift of asphalt (all streets)
What to expect during Construction

- Vehicle access will be provided although temporary delays and parking adjustments will be necessary
- Access for Emergency services will be provided at all times
- Expect streets to be reconstructed one side at a time
- Barricades, fencing, sediment barriers and other safety measures
- Temporary road paving until final paving
- South Canal Drive will have its sewer line replaced as part of reconstruction
- Entire subdivision will be milled and repaved

- County will hold another public meeting with the selected contractor prior to start of construction to review their approach and take input
What to Expect Post Construction

- Drainage system improvements will resolve standing water (following rainfall events) that was impacting vehicle traffic and road stability
- Drainage system improvements in some areas are limited by existing drainage outfall elevations, high water table and adjacent lots at relatively same elevation as road
- Runoff will drain to new inlets but may spread out of gutters and onto roadway during heavy rainfall events
- Reconstructed roadways will withstand high water table (crushed concrete base)
- Sewer line replacement on South Canal Drive will eliminate frequent repairs
Questions
Boneyard for Cut & Paste
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