

MEMORANDUM

TO: MAYOR & CITY COUNCIL

FROM: GREGORY J. ORAVEC, CITY MANAGER

SUBJECT: PROPOSAL FOR FAIRGREEN ROAD EXTENSION

DATE: MAY 9, 2012

This memorandum serves to outline a proposal for the Fairgreen Road Extension Project. Attached, please find a memorandum from Roxanne M. Chesser, PE, Civil Engineer, through Patricia Roebling, PE, City Engineer, which provides detailed information for your consideration. As you will note, the proposal calls for the City to construct a very basic two-lane asphalt road section to connect the Section 35 Subdivision, which was platted circa 1969, with the Crosstown Parkway for about \$200,000, utilizing funding from the City's annual budget for resurfacing. In your consideration of the proposal, I believe that you may find the following points noteworthy:

- Section 35 is part of the "old" City. It was subdivided in 1969. This project would benefit this longstanding section of the City.
- Our records do not show any existing development order condition or developer commitment which would allow the City to compel a developer to construct this extension now.
- Should either of the large vacant tracts on the south side of Crosstown Parkway develop, staff will recommend that they be required to construct the roadway as previously conceptualized, featuring curb and gutters, median, landscaping, 8-foot sidewalks and lighting.
- The estimated project cost of \$200,000 has been kept to a minimum due to:
 - A very basic roadway design—24 feet of asphalt with swale drainage, which is very similar to most of the residential streets in the City.
 - The generosity of CAPTEC Engineering, Inc., who has offered to complete the redesign for free.
 - The generosity of Ardaman and Associates, Inc., who has agreed to provide geotechnical and testing services for free.
 - The City Surveying Division providing updated survey work.
- The estimated timeline is 30 weeks; but, if given the go ahead, I will work with staff to expedite the project.
- Kolter Communities is responsible for the design and construction of the traffic signal at the intersection of Crosstown Parkway and Fairgreen Road, as required by the South Florida Water Management District Permit.
- If the Council approves this proposal, we will delay the overlay of a portion of Bayshore Boulevard until FY 12-13.

I greatly appreciate our staff's hard work on this proposal and the generosity of CAPTEC and Ardaman and Associates. We look forward to receiving your feedback on this proposal and moving forward as you see fit. Thank you.



"A City for All Ages"

CITY OF PORT ST. LUCIE

Engineering Department

Accredited Agency – American Public Works Association

MEMORANDUM

To: Gregory J. Oravec – City Manager

Thru: Patricia Roebing, P.E. – City Engineer

From: Roxanne M. Chesser, P.E. – Civil Engineer

Date: May 8, 2012

Re: Fairgreen Road Extension – Proposed Redesign to Minimize Project Scope and Budget

Per your direction, the Engineering Department has developed a plan to reduce the project scope and minimize the cost of the Fairgreen Road Extension. The details of this redesign are outlined below:

- Create a two-lane road section with swale drainage. This eliminates the median, driveway turnouts, sidewalk, street lighting and landscaping from the project. The elimination of the sidewalk, street lighting and landscaping will require a variance from the City Codes that require these features on a new roadway.
- The estimated cost for the redesigned roadway is about \$200,000.
- The Engineering Survey Division will provide the updated survey information
- CAPTEC Engineering, Inc. has agreed to provide pro-bono Engineering Services to redesign the roadway.
- Ardaman and Associates, Inc. has agreed to provide pro-bono Geotechnical and Testing Services for the project.
- We estimate it will take about 30 weeks to complete the redesigned roadway: 8 weeks for updated survey and design, 6 weeks to bid and award the contract, and 16 weeks for construction.
- Based upon our preliminary traffic volume estimates, a traffic signal will be warranted at the intersection when the roadway is opened.
- Kolter Communities is responsible for the design and construction of the traffic signal.
- Kolter Communities estimates that it will take about 35 weeks to complete the traffic signal: 11 weeks for design and 24 weeks to fabricate and construct. The fabrication time for the traffic mast arms has the longest and most variable lead time. Therefore, if the time to fabricate the mast arms is longer than expected, the project schedule will need to be extended.

The attached PowerPoint presentation summarizes the project. If you have any questions or require further information, please do not hesitate to contact me.

RMC/cc
enclosures
cc:

Jesus Merejo – Utility Systems Director
Kimberly Graham, P.E. – Assistant City Engineer
Frank Knott – Project Manager
Clyde Cuffy – Project Coordinator

RECEIVED

MAY 08 2012

City Manager's Office

Fairgreen Road Extension

City Council Meeting

May 14, 2012

*CITY OF PORT ST. LUCIE
ENGINEERING DEPARTMENT*



Fairgreen Road Extension

Crosstown Parkway

C-24

I-95

Village Parkway





160 091

Fairgreen Road Extension

History

- **Need for 2nd Entrance to Section 35**
- **Need for SFWMD Maintenance Access**
- **Quit Claim Deeded to City November 2006**
- **100-Foot Road Right-of-Way**
- **Construction**
 - **Phase I - Culvert Crossing and Gate**
 - **Phase II – Roadway**
- **Funding Responsibilities**
 - **Design and Permitting – Core Communities**
 - **Culvert Crossing, Gate and Traffic Signal –
Kolter Communities**
 - **Roadway Construction – Kennedy Homes**



Fairgreen Road Extension

Current Design

- **Design and Permitting Completed**
 - **Approximate Length 1,100 Feet**
 - **Two lane Section Widens at Crosstown Parkway**
 - **Curbed with Median**
 - **8-Foot Wide Sidewalk**
 - **Drainage**
 - **Landscaping and Irrigation**
 - **Lighting**
 - **Traffic Signal at Crosstown Parkway**
- **Total Approximate Cost \$1 Million (signal \$450K, roadway \$550K)**
- **Construction of Culvert Crossing, Gate, Grading, Subgrade and Majority of Drainage is Completed.**



Fairgreen Road Extension

Current Design



Fairgreen Road Extension

Possible Funding Sources.....

State Budget 2013
Appropriations Act HB 5001
Funding Item 1968A
\$1.1 Million



Fairgreen Road Extension

New Approach.....



**What if We Minimize
Design and Costs??**



Fairgreen Road Extension

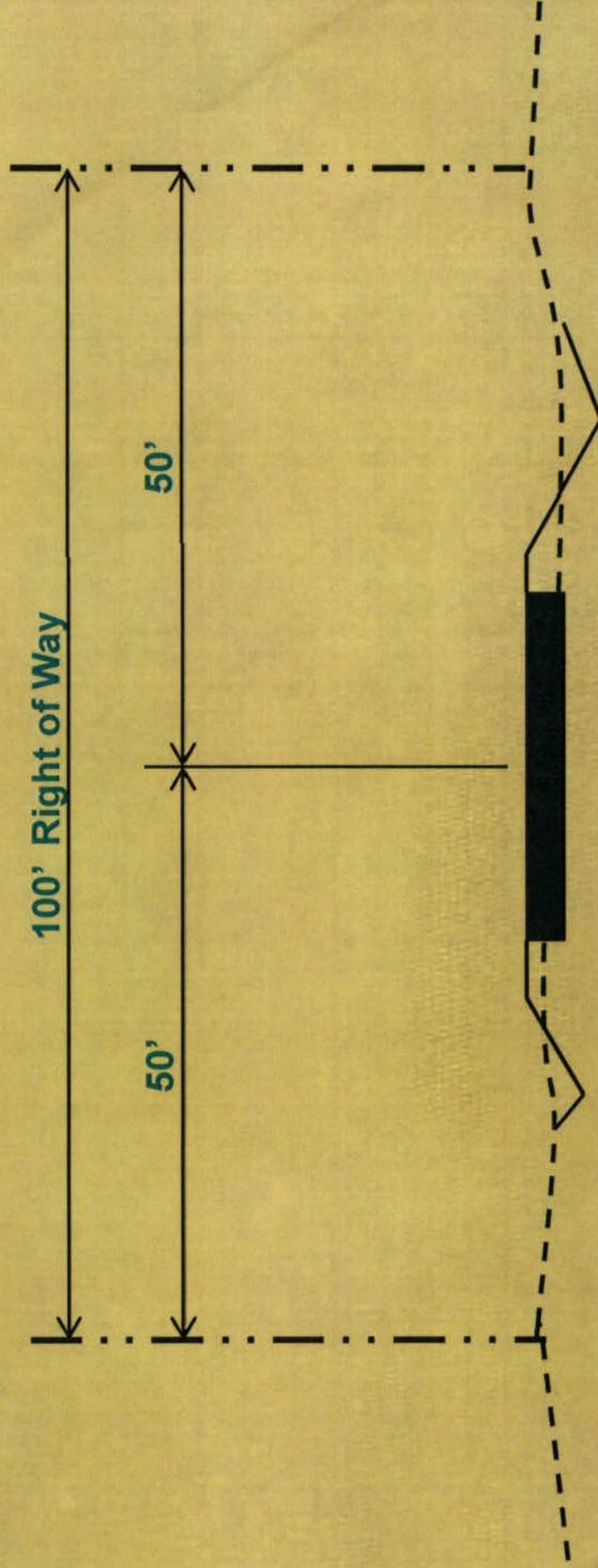
Suggested Redesign

- **City Council Approval of Variance:**
 - **Sidewalk**
 - **Street Trees**
 - **Lighting**
- **City Survey Division updates Survey**
- **Pro-Bono Geotechnical and Testing By Ardaman and Associates, Inc.**
- **Pro-bono Engineering By CAPTEC Engineering, Inc.**
- **Roadway Redesign:**
 - **Two lane un-divided**
 - **Swale Drainage**
- **Traffic Signal by Kolter Communities**



Fairgreen Road Extension

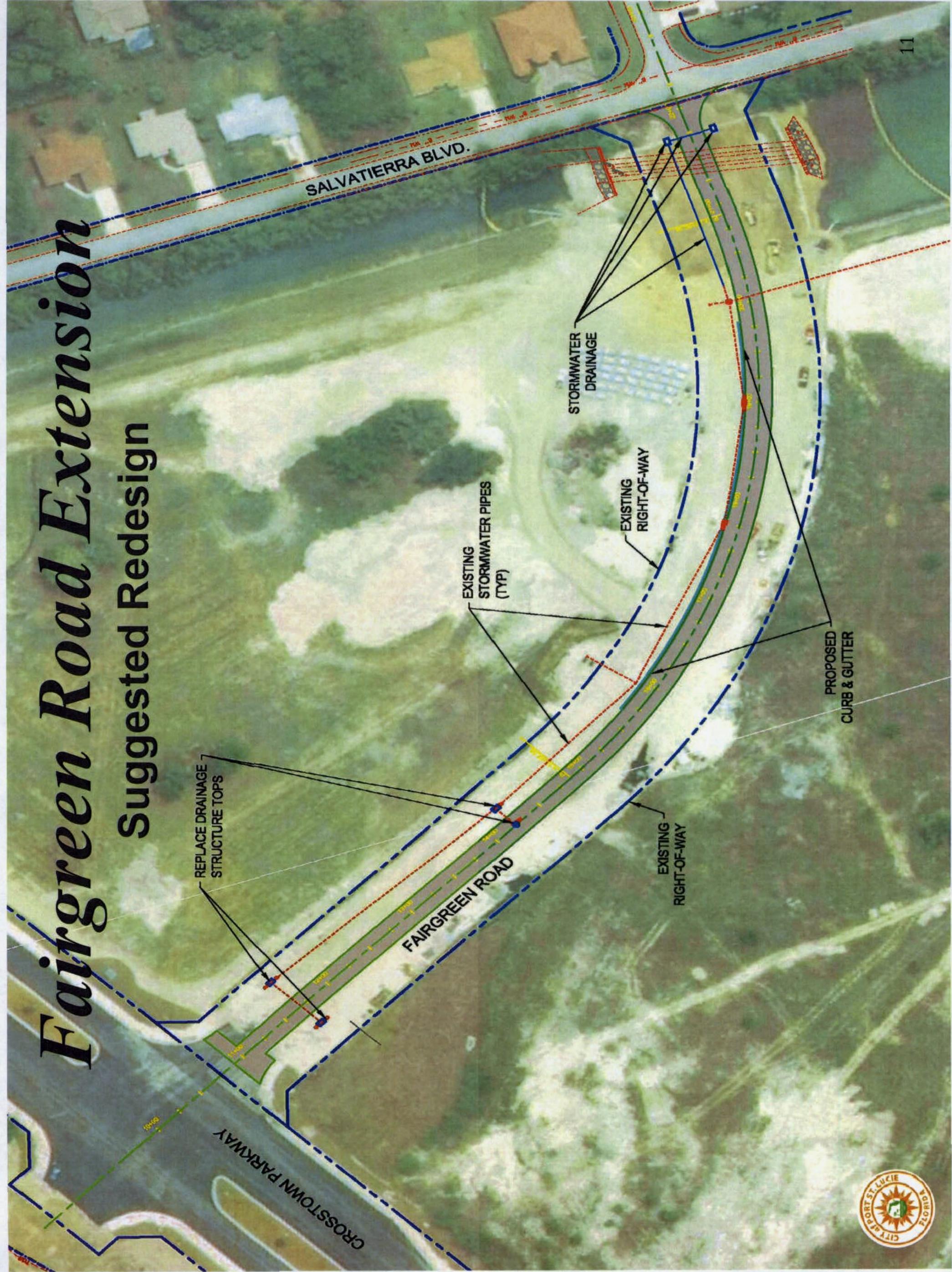
Suggested Redesign



Typical Section

Fairgreen Road Extension

Suggested Redesign



Fairgreen Road Extension

Suggested Redesign

- **Estimated Cost \$200,000 (Roadway)**
- **Estimated Roadway Schedule (Total 30 Weeks)**
 - **Start - Upon City Council Directive**
 - **Update Survey and Redesign – 8 Weeks**
 - **Bid and Award Construction Bid – 6 Weeks**
 - **Construction – 16 weeks**
- **Estimated Traffic Signal Schedule (Total 35 Weeks)**
(Per Kolter Communities)
 - **Start – When Roadway Redesign Begins**
 - **Design – 11 Weeks**
 - **Fabricate Mast Arms and Construct – 24 Weeks**



Fairgreen Road Extension

City Manager Discussion

**Possible Funding Source
\$200,000**



Fairgreen Road Extension

Thank You



MaryAnn Verillo

From: Patricia Roebeling
Sent: Wednesday, May 09, 2012 2:05 PM
To: MaryAnn Verillo; Patty Lipp
Cc: Roxanne Chesser; Clyde Cuffy; Kim Graham
Subject: Fairgreen Road Extension PPP for 5/14/12 CC Meeting - Funding Information

Please provide the following funding information concerning the Fairgreen Road Extension to the CM and let me know if he requires any additional data. Thank you much.

The current remaining Road & Bridge Capital Improvement Annual Resurfacing Program Budget is \$1,027,000 of the original \$1,500,000. Now that the Becker Road Improvements are basically complete, it is recommended to perform the resurfacing improvement of many streets in the surrounding area. The total estimated amount of these improvements is \$660,000, leaving a remainder of approximately \$367,000. Another improvement planned this fiscal year was to overlay a portion of Bayshore Boulevard north from St. James Drive continuing around the bend. This improvement is estimated to cost approximately \$200,000. We are recommending to put that project on hold to support the construction of the Fairgreen Road Extension, which is estimated at the same cost. The remainder of the budget, or \$167,000, is recommended to be saved as a contingency for unforeseen projects that may arise.