

**VILLAMAR
COMMUNITY DEVELOPMENT DISTRICT**

**ENGINEER'S REPORT
FOR CAPITAL IMPROVEMENTS**

Prepared for:

**BOARD OF SUPERVISORS
VILLAMAR
COMMUNITY DEVELOPMENT DISTRICT**

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**VILLAMAR
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**ENGINEER'S REPORT
VILLAMAR
COMMUNITY DEVELOPMENT DISTRICT**

I. INTRODUCTION

The Villamar Community Development District (the "District") is west of CR 653 and south of Eloise Loop Road in Winter Haven (the "City"), Polk County, (the "County"), Florida. The District currently contains approximately 153.65 acres, and is expected to consist of 642 single family lots, recreation / amenity areas, parks, and associated infrastructure.

The CDD was established under City Ordinance No. 0-18-70 which was approved by the City Commission on November 26, 2018. The District will own and operate the public roadways and stormwater management facilities, as well as the landscape, irrigation, signage, and recreational facilities within the development.

Public improvements and facilities financed, acquired, and/or constructed by the District will be designed and constructed to conform to regulatory criteria from the City, the County, Southwest Florida Water Management District (SWFWMD), and other applicable agencies with regulatory jurisdiction over the development. An overall estimate of probable cost of the public improvements is provided in Exhibit 7 of this report.

This "Capital Improvement Plan" or "Report" reflects the present intentions of the District and the landowners. It should be noted that the location of proposed facilities and improvements may be adjusted during the final design, permitting, and implementation phases. It should also be noted that these modifications are not expected to diminish the benefits received by the property within the District. The District reserves the right to make reasonable adjustments to the development plan to meet applicable regulatory requirements of agencies with jurisdiction over the development, while maintaining a comparable level of benefits to the lands served by the improvements. Changes and modifications are expected as changes in regulatory criteria are implemented.

Implementation of any proposed facilities or improvements outlined in this Report requires written approval from the District's Board of Supervisors. Estimated costs outlined in this report are based on best available information, which includes but is not limited to previous experience with similar projects. Actual costs could be different than estimates because final engineering and specific field conditions may affect construction costs.

All roadway improvements including sidewalks in the right-of-way and storm drainage collection systems (from the curb inlets to their connection to the Stormwater ponds) within the development will be maintained by the District. Water distribution, reclaim water, and wastewater collection systems (gravity lines, force mains, and lift stations) will, upon completion, be dedicated to the City for ownership and maintenance.

II. PURPOSE AND SCOPE

The purpose of this Report is to provide engineering support to fund improvements in the District. This Report will identify the proposed public infrastructure to be constructed or acquired by the District along with an opinion of probable cost.

Contained within this Report is a brief description of the public infrastructure to be constructed or acquired by the District. The District will finance, construct, acquire, operate, and maintain all or specific portions of the proposed public infrastructure. An assessment methodology consultant has been retained by the District, who will develop the assessment and financing methodology to be applied using this Report.

The predominant portion of this Report provides descriptions of the proposed public infrastructure improvements, determination of estimated probable construction costs, and the corresponding benefits associated with the implementation of the described improvements. Detailed site construction plans and specifications have not yet been completed and permitted for the improvements described herein. The engineer has considered, and in specific instances has relied upon, the information and documentation prepared or supplied by others, and information that may have been provided by public entities, public employees, the landowner, site construction contractors, other engineering professionals, land surveyors, the District Board of Supervisors, and its staff and consultants.

III. THE DEVELOPMENT

The development will consist of 642 single family homes and associated infrastructure ("Development"). The Development is a planned residential community is located on the west of CR 653 and south of Eloise Loop /road in the City of Winter Haven and lies within Section 22 and 23, Township 29 South, Range 26 East, all within the City. The Development has received zoning approval by the City. The approved zoning is PD and the property has an underlying Future Land Use Designation of RL (Residential Low Density), RE (Residential Estate, and CON (Conservation). The development will be constructed in three (3) phases.

IV. THE CAPITAL IMPROVEMENTS

The Capital Improvement Plan, (the "CIP"), consists of public infrastructure in Phases 1, 2, and 3. The primary portions of the CIP will entail stormwater pond construction, roadways built to an "urban" typical section, water, reclaim water and sewer facilities and off-site improvements (including turn lanes and extension of water and sewer mains to serve the development).

There will also be stormwater structures and conveyance culverts within the CIP which will outfall into the on-site retention ponds. These structures and pond areas comprise the overall stormwater facilities of the CIP. Installation of the water distribution and wastewater collection system will also occur at this time. Below ground installation of power, telecommunications and cable TV will occur, but will not be funded by the District. Undergrounding of wires for installation of street lights within the public right of way will be funded by the District.

As a part of the recreational component of the CIP, a public park/amenity center will be constructed within the development and the location shall have easy access to the other portions of the District. The public park/amenity center will be accessed by the public roadways and sidewalks.

V. CAPITAL IMPROVEMENT PLAN COMPONENTS

The Capital Improvement Plan includes the following:

Stormwater Management Facilities

Stormwater management facilities consisting of storm conveyance systems and retention ponds are contained within the District boundaries. Stormwater runs off via roadway curb and gutter to storm inlets. Storm culverts convey the runoff into the proposed retention ponds for water quality treatment and attenuation. The proposed stormwater systems will utilize dry retention and/or wet retention for biological pollutant assimilation to achieve water quality treatment. The design criteria for the District's stormwater management systems is regulated by the City, the County, and the SWFWMD. There is a known surface water, (Crystal Lake) and there are natural wetlands on the west side of the Development. No impacts to the wetlands or lake are anticipated.

Federal Emergency Management Agency Flood Insurance Rate Map (FEMA FIRM) Panel No. 12105C-0530G (dated 12/22/2016) demonstrates that the majority of the property is located within Flood Zone X with the remainder in AE. Based on this information and the site topography, it does not appear that floodplain compensation is required. If floodplain compensation is required, flood compensation shall be in accordance with Southwest Florida Water Management, City, and County criteria

During the construction of stormwater management facilities, utilities and roadway improvements, the contractor will be required to adhere to a *Stormwater Pollution Prevention Plan* (SWPPP) as required by Florida Department of Environmental Protection (FDEP) as delegated by the Environmental Protection Agency (EPA). The SWPPP will be prepared to depict for the contractor the proposed locations of required erosion control measures and staked turbidity barriers specifically along the down gradient side of any proposed construction activity. The site contractor will be required to provide the necessary reporting on various forms associated with erosion control, its maintenance and any rainfall events that occur during construction activity.

Public Roadways

The proposed public roadway sections are to be 40' R/W with 24' of asphalt and Miami curb or Type F curb and gutter on both sides and 80' R/W with 24' of asphalt with roadside swales and sidewalks on both side. The proposed roadway section will consist of stabilized subgrade, lime rock, crushed concrete or cement treated base and asphalt wearing surface. The proposed curb is to be 2' wide and placed along the edge of the proposed roadway section for purposes of protecting the integrity of the pavement and also to provide stormwater runoff conveyance to the proposed stormwater inlets. The 80' R/W section shall be a rural section constructed in accordance with FDOT, County, and City specifications. Underdrain is provided as necessary to control groundwater and protect the roadway base material.

The proposed roadways will also require signing and pavement markings within the public rights-of-way, as well as street signs depicting street name identifications, and addressing, which will be utilized by the residents and public. As stated above, the District's funding of roadway construction will occur for all public roadways.

Water, Reclaim, and Wastewater Facilities

A potable water system inclusive of water main, gate valves, fire hydrants and appurtenances will be installed for the Development. The water service provider will be the City of Winter Haven Public Utilities. The water system will be a "looped" system. These facilities will be installed within the proposed public rights-of-way within the District. This water system will provide the potable (domestic) and fire protection services which will serve the entire District.

A domestic wastewater collection system inclusive of gravity sanitary sewer mains and sewer laterals will be installed. The gravity sanitary sewer mains will be 8" diameter PVC. The gravity sanitary sewer lines will be placed inside of the proposed public rights-of-way, under the proposed paved roadways. Branching off from these sewer lines will be laterals to serve the individual lots. A lift station is anticipated for this CIP. Flow from the lift station shall be connected to either a force main on site or along CR 653.

Reclaimed water is available for this site. The reclaim water lines will be installed onsite to provide irrigation within the public right of way and amenity/park area. The reclaimed water system is funded by the District. Any water, sewer, or reclaim water pipes or facilities placed on private property will not be publicly funded.

Off-Site Improvements

The District will provide funding for the anticipated turn lanes at the development entrance. The site construction activities associated with the CIP are anticipated for completion by phases based on the following estimated schedule: Phase 1 in 2019-2020; Phase 2 in 2020-2022; Phase 3 in 2021-2023. Upon completion of each phase of these improvements, inspection/certifications will be obtained from the SWFWMD; the Polk County Health Department (water distribution system), Florida Department of Environmental Protection (FDEP) (wastewater collection) and the City.

Amenities and Parks

The District will provide funding for an Amenity Center to include the following: parking area, pavilion with restroom facilities, pool, tot lot, dog park/all-purpose play field, and walking trails around the Amenity Center.

Electric and Lighting

The electric distribution system thru the District is currently planned to be underground. The District presently intends to fund and construct the electric conduit, transformer/cabinet pads, and electric manholes required by TECO. Electric facilities will be owned and maintained by TECO after dedication, with TECO providing underground electrical service to the Development. The CDD presently intends to fund the cost of undergrounding of electric conduit for the installation of the street lighting along the internal roadways within the CDD. These lights will be owned, operated and maintained by TECO after dedication, with the District funding maintenance services.

Entry Feature

Landscaping, irrigation, entry features and walls at the entrances and along the outside boundary of the Development will be provided by the District. The irrigation system will use reuse water as provided by the City of Winter Haven. The master reuse watermain to the various phases of the development will be constructed or acquired by the CDD with District funds and subsequently turned over to the City of Winter Haven. Landscaping for the roadways will consist of sod, annual flowers, shrubs, ground cover and trees for the internal roadways within the CDD. Perimeter fencing will be provided at the site entrances and perimeters. These items will be funded, owned and maintained by the CDD.

Miscellaneous

The stormwater improvements, landscaping and irrigation, recreational improvements, street lighting, and certain permits and professional fees as described in this report, are being financed by the District with the intention for benefiting all of the developable real property within the District. The construction and maintenance of the proposed public improvements will benefit the development for the intended use as a single-family planned development.

VI. PERMITTING

Construction permits for all phases are required and include the SWFWMD Environmental Resource Permit (ERP), Florida Department of Environmental Protection (FDEP), Polk County Health Department, and City construction plan approval. There may be a need for an Army Corps of Engineer (ACOE) jurisdictional wetlands within the Phase 3 CIP boundaries.

Following is a summary of required permits obtained and pending for the construction of the public infrastructure improvements for the District:

PHASE 1

Permits / Approvals	Approval / Expected Date
Zoning Approval (City of Winter Haven)	Approved
Preliminary Plat (City of Winter Haven)	Not Required
SWFWMD ERP	November 2018
Construction Permits (City of Winter Haven)	November 2018
Polk County Health Department Water	November 2018
FDEP Sewer	November 2018
FDEP NOI	January 2019

PHASE 2

Permits / Approvals	Approval / Expected Date
Zoning Approval (Winter Haven)	Approved
Preliminary Plat (City of Winter Haven)	Not Required
SWFWMD ERP	February 2019
Construction Permits (City of Winter Haven)	February 2019
Polk County Health Department Water	February 2019
FDEP Sewer	February 2019
FDEP NOI	February 2019

PHASE 3

Permits / Approvals	Approval / Expected Date
Zoning Approval (City of Winter Haven)	Approved
Preliminary Plat (City of Winter Haven)	Not Required
SWFWMD ERP	July 2020
Construction Permits (City of Winter Haven)	July 2020
FDEP Water	July 2020
FDEP Sewer	July 2020
FDEP NOI	July 2020

VII. RECOMMENDATION

As previously described within this report, the public infrastructure as described is necessary for the development and functional operation as required by the City. The site planning, engineering design and construction plans for the infrastructure are in accordance with the applicable requirements of the City of Winter Haven, and the SWFWMD. It should be noted that the infrastructure will provide its intended use and function so long as the construction and installation is in substantial conformance with the design construction plans and regulatory permits.

Items utilized in the *Opinion of Probable Costs* for this report are based upon proposed plan infrastructure as shown on construction drawings incorporating specifications in the most current SWFWMD and the City regulations.

VIII. REPORT MODIFICATION

During development and implementation of the public infrastructure improvements as described for the District, it may be necessary to make modifications and/or deviations for the plans. However, if such deviations and/or revisions do not change the overall primary objective of the plan for such improvements, then the costs differences would not materially affect the proposed cost estimates.

IX. CONCLUSION

It is our professional opinion that the public infrastructure costs for the CIP provided in this Report are reasonable to complete the construction of the public infrastructure improvements. Furthermore, the public infrastructure improvements will benefit and add value to lands within the District at least equal to the costs of such improvements.

The *Opinion of Probable Costs* of the public infrastructure improvements is only an estimate and is not a guaranteed maximum price. The estimated costs are based upon unit prices currently experienced on an ongoing and similar basis for work in the County. However, labor market, future costs of equipment, materials, changes to the regulatory permitting agencies activities, and the actual construction processes employed by the chosen site contractor are beyond the engineer's control. Due to this inherent opportunity for changes (upward or downward) in the construction costs, the total, final construction cost may be more or less than this estimate.

Based upon the presumption that the CIP construction continues in a timely manner, it is our professional opinion that the proposed public infrastructure improvements when constructed and built in substantial conformance with the approved plans and specifications, can be completed and used for their intended function. Be advised that we have utilized historical costs and direct unit costs from site contractors and consultants in the County, which we believe to be necessary in order to facilitate accuracy associated with the *Opinion of Probable Costs*. Based upon the information above, it is our professional opinion that the acquisition and construction costs of the proposed CIP can be completed at the cost as stated.

Exhibit 8
Villamar
Community Development District
Summary of Proposed District Facilities

<u>District Infrastructure</u>	<u>Construction</u>	<u>Ownership</u>	<u>Capital Financing*</u>	<u>Operation and Maintenance</u>
Offsite Improvements	District	County	District Bonds	County
Stormwater Facilities	District	District	District Bonds	District
Lift Stations/Water/Sewer	District	City of Winter Haven	District Bonds	City of Winter Haven
Street Lighting/Conduit	District	District	District Bonds	District
Roadway	District	District/City	District Bonds	District/City
Entry Feature & Signage	District	District	District Bonds	District
Parks & Recreation Facilities	District	District	District Bonds	District

*Costs not funded by bonds will be funded by the developer.