

PROJECT MANUAL
FOR
PHASE 1 – CARICA CONNECTION
TRANSMISSION WATER MAIN
VANDERBILT BEACH ROAD &
AIRPORT PULLING



Collier County

Collier County
Engineering and Project Management Division
Collier County Public Utilities Department
3339 Tamiami Trail East
Naples, FL 34112

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William H Saum
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William Hurricane Saum, P.E.
Florida License No. 88659
Johnson Engineering, LLC
2122 Johnson Street
Fort Myers, FL 33901
Phone: (239) 334-0046
WSaum@johnsoneng.com

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- For the complete set of the Collier County Utility Standards Manual, go to the Collier County website below for the latest revision of the Collier County Utilities Standards Manual:
 - <https://www.colliercountyfl.gov/home/showpublisheddocument/110254/638792908663530000>
 - The following Sections of the USM were downloaded from the Collier County website on 6/16/2025.

- Section 0 Ordinance and Revisions
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SECTION 1

PROJECT INFORMATION

1.1 PROJECT SUMMARY AND BACKGROUND

Background

This project is Phase 1 of the Transmission Water Main replacement project along Vanderbilt Beach Road, from Airport Pulling Road to the Carica Pump Station, and along Airport Pulling Road, from Vanderbilt Beach Road to Pine Ridge Road.

This Phase 1 project consists of the removal of approximately 280 LF of existing 30" diameter pre-stressed concrete cylinder pipe (PCCP) and ductile iron pipe (DIP) water main pipeline at the Carica Pump Station site, and the installation of approx. 240 LF of new DIP water main pipeline. Phase 1 also includes the reconnection to the existing storage tank fill line, water main disconnections, the removal and grouting of existing water main pipelines, and provisions for the future connection for the Phase 3 project.

Construction Sequence and Maintaining Water Service

The Carica Pump Station is a critical component of the Collier County water system infrastructure. The goal of this project is to complete the water main improvements while minimizing the amount of water outages, and to reduce the water outage durations. The Engineer has identified a potential construction sequence to minimize the amount of water outages, and to maintain service to the storage tank fill line during the pipeline replacement. The contractor is required to follow this sequence, or is required to submit a proposed sequence plan for review and acceptance by the County, CEI, and the Engineer.

Water Outage Work Plans and Contingency Plans

The Contractor will be responsible to prepare and provide a written work plan, detailing the work activities during the water outages. The work plan shall include, but not be limited to, detailed work activities, dates of work, times of the work, necessary materials, installation methods to keep the new water main pipeline clean during installation. The contractor may be required to work 24 hours per day, with multiple construction crews, to reduce the total water outage duration.

Thompson Pipe Representative

The PCCP water main is a unique pipe material that requires unique adapters and unique construction methods to make connections. The contractor is responsible and required to have a competent Thompson Pipe Group representative on site during all PCCP connections and disconnections. The contractor is responsible for all coordination, travel, expenses, and any other associated items to have a competent Thompson Pipe Group onsite during these activities.

Restoration

This project also includes the restoration of all areas disturbed by the project, which may include, but not be limited to, the replacement of sod, light poles, grading of swales, ditches, berms, and retention areas, curbs, walls, gates and fence, driveway pavement restoration, electrical wire and conduits restoration, and the replacement of all landscaping and hardscaping that is damaged or disturbed during construction.

The construction activities are located on Collier County property and in close proximity to private properties.

Locates

Contractor is responsible for locating all existing utilities within the Collier County property and within the project area. Collier County stakes and locates will mark the ground surface with paint, flags, or similar markings based on available record drawing information. The Contractor is responsible for locating each utility in the work area and providing a report of the findings before proceeding with construction.

Materials

All materials and quantity of materials that are not included in *Section 3.4 Collier County Provided Materials* are to be furnished by the Contractor. The Contractor is responsible to take possession of all County purchased materials. Upon issuance of the NTP to the Contractor, the Contractor shall perform a material inventory and prepare a *County Purchased Material Manifest*, that will be submitted to the County. The Contractor will then be responsible for transporting, storing, loading and offloading, all materials included in *Section 3.4 Collier County Provided Materials*.

The Contractor is responsible for storing all materials for this project. No materials may be stored in the Collier County Right-of-Ways or on Collier County properties unless written approval from Collier County is received and required permits are acquired.

Permits

The Contractor is responsible to obtain any necessary permits that are not included in *Section 5.0 Permits Acquired by Design Team*.

END OF SECTION

SECTION 2

COLLIER COUNTY UTILITY STANDARDS MANUAL

**Go to the Collier County website below for the latest revision of
the Collier County Utility Standards Manual**

<https://www.colliercountyfl.gov/home/showpublisheddocument/110254/638792908663530000>