



City of Naples

UTILITIES

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November 9, 2018

Mr. Matt Hermanson, P.E.
Q. Grady Minor & Associates, PA
3800 Via Del Rey
Bonita Springs, FL 34134
Phone 239.947.1144
mhermanson@gradymenor.com

Subject: Approval of Water Service for Arboretum
City of Naples Project File No. 18-02

Dear Mr. Hermanson:

This office has reviewed the revised project drawings for water service for the Arboretum as received on October 31, 2018 and has approved the drawings subject to the special conditions enclosed herein and noted on the drawings. In considering this approval, should you have any questions or require any additional information, please do not hesitate to call this office at 239-213-4713. Please note that this approval is limited to the water service and that additional approval may be required from other governmental entities including Collier County, SFWMD, FDEP, and the Fire District.

Sincerely,

Allyson Holland, P.E.
Deputy Utilities Director

C: Bob Middleton, City of Naples Utilities Director
Javier Martinez, City of Naples Utilities Plans Coordinator
Dave Banter, City of Naples Utilities Inspection Office

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SPECIAL CONDITIONS FOR CITY OF NAPLES UTILITY SERVICE APPROVAL
for
Arboretum

City of Naples Project File No. 18-02

Plan Sheet Notes:

- a. Vibratory compaction is not allowed over the City's 6" water main on Bayshore Drive. If vibratory compaction is required, the contractor shall replace the section of water main prior to grading/paving activities.
- b. There are four existing services serving this project that will need to be properly abandoned at the water main. Two are on Bayshore Drive and two are on Thomasson Drive. Please coordinate the water main shutdowns for the service line abandonments with the City Utilities.
- c. The plans show the water main connection to an existing 6" valve on Bayshore Drive. There is no existing 6" valve. The contractor shall either hot tap the existing 6" main or cut in a tee during the shutdown for service line abandonments noted in a. above.
- d. All water services shall be 2" poly regardless of the meter size or if it's a long or short service. Long services shall be in 4" sleeves as noted on the plans.
- e. The water meter for Building 5 shall be located in front of Building 5, not in front of Building 3 as shown on the plans. Please field adjust the service line and meter and show as-built location on record drawings.
- f. There are several "electrical structures" in conflict with fire services throughout the project. Please relocate the electrical structure or the fire service in order to maintain proper separation. Please show revised locations on record drawings.
- g. Record drawings are required as part of the Utility Acceptance for this project (reference City Specs for record drawing requirements). The following changes to the plans are required with the record drawing submittal:
 1. Show stationing on the Master Utility Plan.
 2. Include a key map for the plan and profiles.
 3. Include notes/revisions pursuant to City redlines on approved plans.
- h. The plans are missing several utility details. Please reference the City's website for potable water details and specifications. <https://www.naplesgov.com/utilities/page/utilities-specifications-and-standards-manual>
- i. Please submit a copy of the approved Collier County ROW permit to City of Naples for the utility work on both Bayshore Drive and Thomasson Drive.
- j. Please adjust the utility easement so it is at least 7.5' from the water main throughout the project. The easement agreement and the sketch and legal description for the utility easement is required at the time of utility acceptance.
- k. Please provide documentation from the party who will maintain the fire hydrants throughout the

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project after the project is complete.

- l. Contractor to coordinate with Dave Banter, City of Naples Utility Inspector [Cell Phone #207-1130] 72 hours in advance of starting construction and 72 hours in advance of connecting to the City's water mains.
- m. City reserves the right to consolidate the number of water main taps. Contractor to coordinate with Dave Banter, City of Naples Utility Inspector [Cell Phone #207-1130] on location/scheduling/equipment/etc. of hot tap 72 hours in advance of work.
- n. All proposed and existing water services (potable, fire, and irrigation) require backflow prevention assemblies, per the City of Naples' standards. Please see the City's website for updated standards: <https://www.naplesgov.com/utilities/page/utilities-specifications-and-standards-manual>

General comments and special conditions as applicable are as follows:

1. The proposed utility work relating to City water & sewer service shall be subject to City inspection and approval. The project owner shall remain responsible for coordination of installation, testing and chlorination of water distribution lines. The Engineer of Record shall be responsible for design capacity, inspection and approval of all private facilities.
2. Due to the potable water main sizes in the area, re-review of operating conditions is recommended to reflect internal line restrictions and constraint losses in using the City's Badger meter design to assure adequate potable water pressure and volume for domestic, fire and irrigation service. (Note: the owner remains responsible for system design/construction to overcome internal head losses and service constraints). If any existing potable, fire, and/or irrigation facility is modified or affected by a change in this project after this approval, the Engineer of Record shall determine through engineering evaluation and hydraulic analysis that the effectiveness and efficiency of permitted facilities shall not be adversely impacted as a result of the subject revision (s).
3. City of Naples Utility Standards and/or recommendations applicable to public utility service shall be complied with at all times as well as the conditions shown on the approved plan sheet. Should site conditions be different than indicated on the approved drawings, and should there arise the need for any special valving, special connections, restraints, hydrant relocation (to meet clear recovery) and/or piping relocations, the cost of gaining such approvals along with the cost of the added materials and work shall be the responsibility of the owner.
4. Approval is for owner to remain responsible for all internal utility service facilities including and beyond the 'backflow assemblies'.
5. Utility responsibilities as set forth in Florida Statute 471 shall remain with the Engineer of Record. 'As-Built' drawings in digital copy on CD and in hard copy form, engineer certification, along with utility dedication documents and warranties shall be provided as a condition of C.O. Should the Engineer determine that existing meter sizes and/or water delivery systems be inadequate for the proposed project, proposed system changes shall be submitted to this office for review and analysis.
6. The Engineer of Record shall remain responsible to provide verification of fire protection compliance and coordination with the applicable Fire District Officials. The final location of fire hydrants and/or exemption to hydrants and/or FDCs requirements shall be approved by the District Fire Marshall. Any plan changes to meet fire flow criteria shall be coordinated with the Fire District office and this office. Fire hydrants shall be installed in accordance with latest NFPA standards and applicable Fire Control and

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Rescue District specifications and installation requirements.

7. The Engineer of Record shall provide sufficient inspection during construction to confirm compliance with City utility requirements, fire service requirements, and to provide record drawings confirming completed construction.
8. Shop drawings, configuration of water line extensions, type of hydrant, valving and location of meters shall be approved by the Engineer of Record prior to start of construction.
9. The Project Owner shall release the City from the cost and liability of maintenance and repair of pavement areas/landscape areas should the City be required to perform repairs/maintenance/replacement of any accepted City utility service lines.
10. The property owner and/or lessee along with the Engineer shall remain responsible for the permitting and coordination with the City of Naples for water meter sizing and water service work.
11. Contractor shall install Terra Tape "D" metallicized locator tape as manufactured by Reef Industries, Inc., Houston, TX (800)231-6074 and Allen Systems, Inc., Wheaton, IL (800)323-1749 buried approximately 12 inches above PVC, polyethylene (PE), ductile iron, and steel piping. Tape width shall be 3 inch minimum*.
12. Attach with electrical tape 10 gage copper tracer wire onto all water mains, and water service lines*.
13. Maintain water main, sewer line and related utility separation requirements per FDEP specifications.
14. All backflow preventer assemblies/devices shall be in accordance with 62-555.360, F.A.C. and the AWWA Manual M-14, practice for backflow prevention and cross-connection control. Backflow prevention assemblies are to be on fire protection sprinkler lines, domestic potable water lines, and irrigation lines using potable water.
15. City shall inspect meter and backflow devices on lines not strictly for fire.
16. As may be applicable, place 3M Magnetic Ball Markers at valve boxes, in meter boxes, at all fittings and change of direction at intervals no greater than every 100 feet. For service lines, place 3M Magnetic Ball Markers at water service line connection to water main and at intervals no greater than every 100 feet. Place ball markers approximately 6" above pipe*.

*Denotes requirement for public system and recommendation for private system.

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