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During Phase 3, two important modifications were made to this project component including:

1. The pump station was relocated from Centennial Park to property adjacent to SICA Hall and Peterson Court and the tide weir-gate was relocated to Riverside Drive; and
2. The pump station was changed to a pump with force main configuration.

The original (Alternative 1) and modified configured LPGA Canal project components are presented in **Figure 3-2**. The parameters for the original and modified LPGA Canal components are summarized in **Table 3-1**.

Table 3-1 Summary of Project Component Parameters

Project Component	Pump Size (cfs)	Force Main Diam/Length (ft/ft)	Proposed Storage (Acres)	Tide Gate Locations
LPGA Canal (original configuration)	600	N/A	N/A	Centennial Park
LPGA Canal (modified configuration)	500	8/700	22.0	SICA Hall
Reed Canal (original configuration)	1,125	N/A	4.0	East of Railroad
Reed Canal (modified configuration)	500	10/1,100	4.0	East of Railroad
Halifax Canal	300	N/A	8.0	South of Nova Road
Laurel Creek Area	150	6/8,000	10.6	N/A
North Street Pond	500	10/6,700	N/A	N/A
Samuel Butts Pond	550	10/7,200	31.0 (total)	N/A
Navy Canal Diversion	N/A	N/A	120	N/A
Buschman Pond	300	8/4,800	53.5 (total)	North of Nova Road

Note: reported proposed storage includes proposed pond and additional proposed storage in watershed

3.2.2 Reed Canal Project Component

The Reed Canal project component was originally configured in the Phase 1 Study as part of Alternative 1. The original configuration included a pond, pump station, and tidal weir-gate located at the CEMEX Site. The pump station was operated in the pump only (no force main) configuration. Specific operational parameters for the Reed Canal component considered as part of Alternative 1 are described in Section 2.

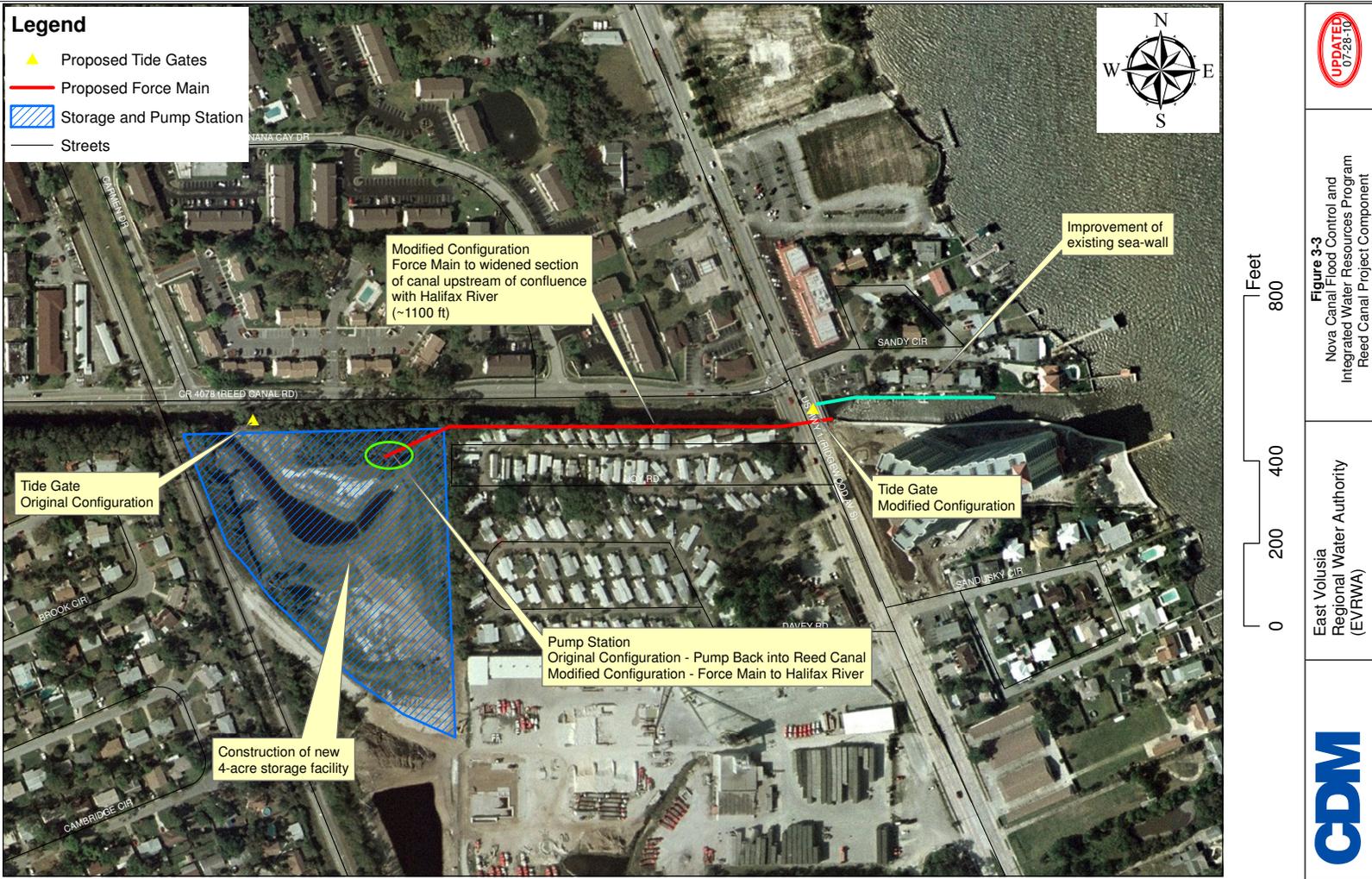
During Phase 3, an important modification was made to this project component to change the pump configuration to a smaller pump with an 10-foot diameter force main. The original (Alternative 1) and modified Reed Canal project components are presented in **Figure 3-3**. The parameters for the original and modified Reed Canal components are summarized in Table 3-1.



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Figure 3-2
Nova Canal Flood Control and
Integrated Water Resources Program
LPGA Canal Project Component



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Figure 3-3
Nova Canal Flood Control and Integrated Water Resources Program
Reed Canal Project Component

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3.2.3 Halifax Canal Project Component

The Halifax Canal project component was originally configured in the Phase 1 Study as part of Alternative 1. The original configuration included a pond, pump station, and tide weir-gate located on property south of Nova Road. The pump station was operated in the pump only (no force main) configuration. Specific operational parameters for the Halifax Canal component considered as part of Alternative 1 are described in Section 2.

During Phase 3, it was determined that this property was no longer available, flood reduction benefits were greater at the Buschman Park location (e.g., to address Dunlawton Avenue flooding), and this project component was eliminated. The original (Alternative 1) Halifax Canal project component is presented in **Figure 3-4**. The parameters for the original Halifax Canal components are summarized in Table 3-1.

3.2.4 Laurel Creek Area Project Component

The Laurel Creek project component includes a 150-cfs pump station, an 8,000-foot force main (6-foot diameter) along Division Street to the Halifax River, and a 10.6-acre pond. These elements are intended to complement proposed improvements in this area by the City of Ormond Beach. City improvements include better connection of existing surface water bodies (borrow ponds) and additional storage. The parameters for this component are summarized in Table 3-1. The layout for this component is shown in **Figure 3-5**.

3.2.5 North Street Pond Project Component

The North Street Pond project component includes a 500-cfs pump station, a 6,700-foot force main (10-foot diameter) along Fairview Avenue to the Halifax River, and draws from the recently constructed 9-acre North Street pond. Improved connection from Nova Canal to the North Street Pond is also considered in this component. These elements are intended to complement the improvements by the City of Daytona Beach in the area. The parameters for this component are summarized in Table 3-1. The layout for this component is shown in **Figure 3-6**.

3.2.6 Samuel Butts Pond Project Component

The Samuel Butts Pond project component includes an existing 19-acre pond, a 550-cfs pump station, a 7,200-foot force main (10-foot diameter) from the existing pond along Niles Street and Wilder Boulevard to the Halifax River, a 9-acre pond on school property, and a 22-acre pond along the golf course. Improved connection from the Nova Canal to the Samuel Butts Pond is also considered in this component. These elements are intended to complement existing and proposed improvements by the City of Daytona Beach in the area. The parameters for this component are summarized in Table 3-1. The layout for this component is shown in **Figure 3-7**.

- Legend**
-  Proposed Tide Gates
 -  Proposed Force Main
 -  Storage and Pump Station
 -  Streets

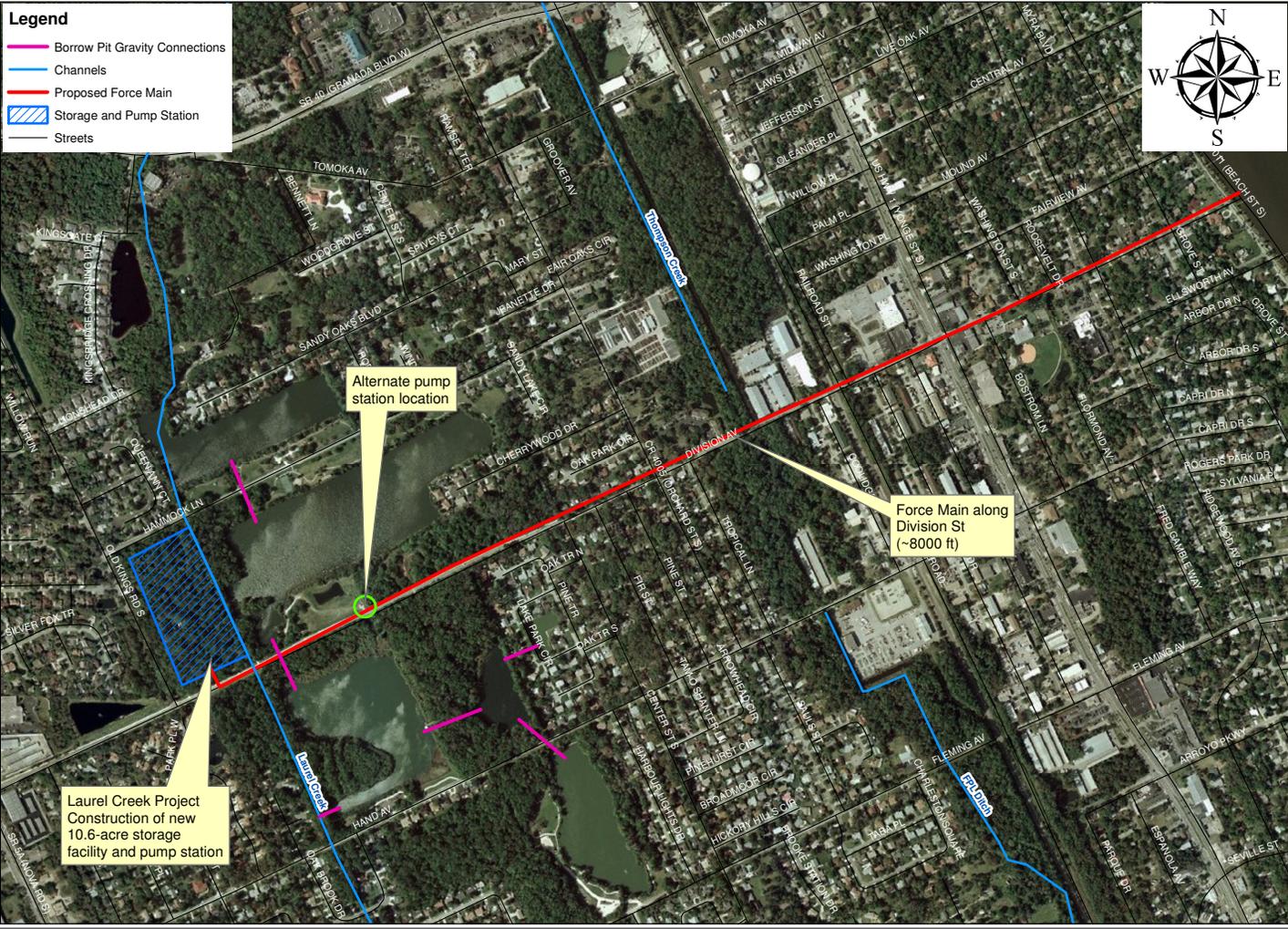




Figure 3-4
Nova Canal Flood Control and
Integrated Water Resources Program
Halifax Canal Project Component



- Legend**
- Borrow Pit Gravity Connections
 - Channels
 - Proposed Force Main
 - Storage and Pump Station
 - Streets





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Figure 3-5
Nova Canal Flood Control and
Integrated Water Resources Program
Laurel Creek Project Component



Legend

- Proposed Force Main
- Proposed Culvert
- Storage and Pump Station
- Streets

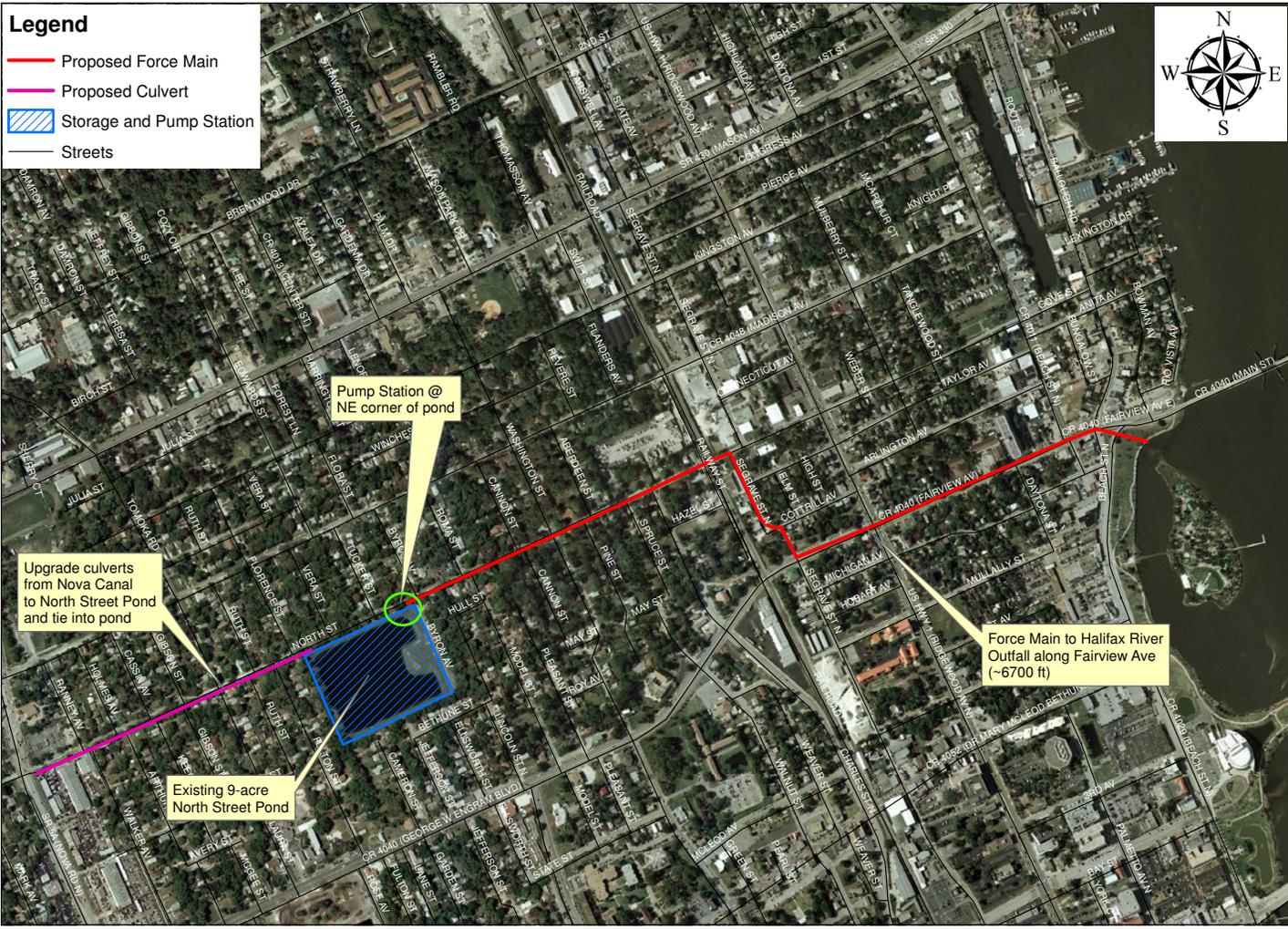




Figure 3-6
Nova Canal Flood Control and
Integrated Water Resources Program
North Street Pond Project Component

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