6 ALTERNATIVES CONSIDERED

6.1 NO-BUILD ALTERNATIVE

The No-Build Alternative assumes no proposed construction at SR 5/US-1 and SW Joan Jefferson Way and serves as a baseline for comparison against the Build Alternatives. It includes on-going construction projects and all funded or programmed improvements. These improvements are part of the MPO Cost Feasible Long-Range Transportation Plan (LRTP), transportation elements of Local Government Comprehensive Plans, or developer-funded transportation improvements specified in approved development orders.

6.2 TRANSPORTATION SYSTEM MANAGEMENT

The Transportation System Management and Operations (TSM&O) alternative comprises ITS strategies to optimize the performance of the existing facility and proposed alternatives. The following TSM&O operations are proposed to be incorporated as part of all the build alternatives:

- Twice per cycle left turn operations for southbound left -turn at SR 5/US-1 and SW Joan Jefferson Way
- Queue detection camera for SW Joan Jefferson Way eastbound traffic
- Train activated flashing beacons at the Sailfish Circle roundabout

6.3 BUILD ALTERNATIVES

Four Build Alternatives are considered for the improvements at SR 5/US-1 and SW Joan Jefferson Way intersection. These Build Alternatives are described below:

6.3.1 Build Alternative 1

Build Alternative 1 extends the existing southbound left-turn storage at the SR 5/US-1 at SW Joan Jefferson Way intersection. The following improvements are proposed as part of this alternative:

- Extend the existing southbound left-turn storage from 300’ to 450’ along SR 5/US-1 at SW Joan Jefferson Way intersection
- Replace the signal mast arms and provide backplates at the intersection of SR 5/US-1 and SW Joan Jefferson Way.
- Replace the signal mast arms and provide backplates at the intersection of SR 5/US-1 and SW Ocean Boulevard

- Extend the southbound left-turn storage from 140’ to 270’ along SR 5/US-1 at SW Ocean Boulevard intersection
- Modify the Sailfish Circle roundabout into a single lane roundabout with truck apron

The detailed conceptual layout of the proposed improvements under Build Alternative 1 are provided in **Figure 6-1.**

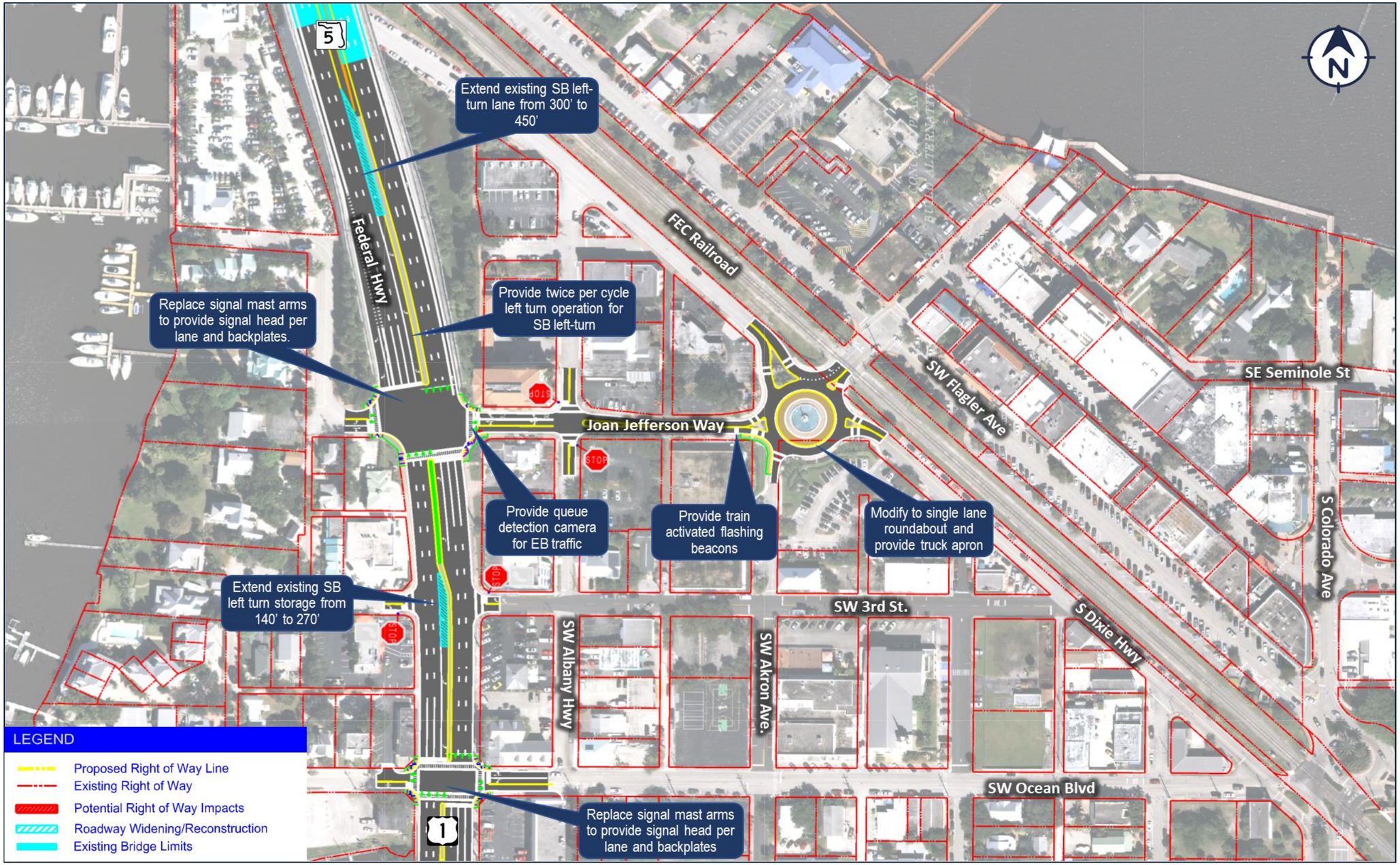


Figure 6-1 Build Alternative 1