

**ORDINANCE No. 2020-21**

**AN ORDINANCE OF THE MAYOR AND THE CITY COUNCIL OF THE CITY OF DORAL, FLORIDA, ADOPTING THE ANNUAL UPDATE TO THE CAPITAL IMPROVEMENT ELEMENT (CIE) OF THE CITY'S COMPREHENSIVE PLAN FOR 2020 AND THE FIVE-YEAR CAPITAL IMPROVEMENT SCHEDULE FOR FISCAL YEARS 2020/2021-2024/2025 PURSUANT TO SECTION 163.3177(3)(B), FLORIDA STATUTES; AND PROVIDING FOR AN EFFECTIVE DATE**

**WHEREAS**, pursuant to Section 163.3177(3)(b), Florida Statutes, local governments are required to undertake an annual review of the Capital Improvements Element to update the Five-Year Capital Improvements Schedule; and

**WHEREAS**, the Five-Year Capital Improvements Schedule must be reviewed annually by the City to reflect the timing, location and funding of capital projects to achieve and maintain adopted level of service standards for public facilities that are necessary to implement the Comprehensive Plan; and

**WHEREAS**, the Planning and Zoning Department is submitting the annual update to the Capital Improvements Element (CIE) of the City's Comprehensive Plan for 2020 and the Five-Year Capital Improvements Schedule for Fiscal Years 2020/2021 – 2024/2025 which identifies the local government's capital projects necessary for implementation of the Comprehensive Plan and to ensure that the adopted level of service standards for public facilities are achieved and maintained for the five-year planning period; and

**WHEREAS**, the City Council hereby finds that the adoption of this Ordinance is in the best interest and welfare of the residents of the City of Doral.

**WHEREAS**, on August 26, 2020, the City Council of the City of Doral sitting as the Local Planning Agency (LPA) at a properly advertised hearing received testimony and evidence related to the Capital Improvement Element to update the Five-Year Capital Improvement Schedule by state law and local ordinances.

**WHEREAS**, on August 26, 2020, the City Council of the City of Doral held a public hearing at which hearing all interested persons were afforded an opportunity to be heard and the Capital Improvement Element to update the Five-Year Capital Improvement was approved on first reading.

**WHEREAS**, on September 22, 2020, the City Council of the City of Doral held a public hearing at which hearing all interested persons were afforded an opportunity to be heard and the Capital Improvement Element to update the Five-Year Capital Improvement was approved on second reading.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF DORAL AS FOLLOWS:**

**Section 1. Recitals.** The foregoing “WHEREAS” clauses are hereby ratified and confirmed as being true and correct and are hereby made a part of this Ordinance upon adoption hereof.

**Section 2. Decision.** The City Council hereby adopts the 2020 update to the Capital Improvement Element (CIE) of the City’s Comprehensive Plan and the Five-Year Capital Improvement Schedule for Fiscal Years 2020/2021 – 2024/2025 pursuant to Section 163.3177(3)(b), Florida Statutes. A copy of the 2020 Capital Improvement Element update and the Five-Year Capital Improvement Schedule for Fiscal Years 2020/2021 – 2024/2025 is provided in Exhibit “A.”

**Section 3. Effective Date.** This Ordinance shall be effective immediately upon passage by the City Council on second reading.

The foregoing Ordinance was offered by Councilmember Cabrera, who moved its adoption. The motion was seconded by Councilmember Cabral upon being put to a vote, the vote was as follows:

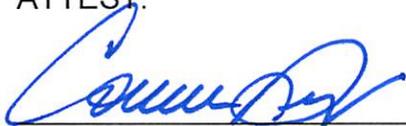
Mayor Juan Carlos Bermudez	Yes
Vice Mayor Christi Fraga	Yes
Councilwoman Digna Cabral	Yes
Councilman Pete Cabrera	Yes
Councilwoman Claudia Mariaca	Yes

PASSED AND ADOPTED on FIRST READING this 26 day of August, 2020.

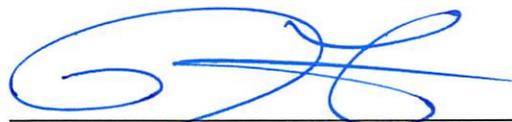
PASSED AND ADOPTED on SECOND READING this 22 day of September, 2020.

  
\_\_\_\_\_  
JUAN CARLOS BERMUDEZ, MAYOR

ATTEST:

  
\_\_\_\_\_  
CONNIE DIAZ, MMC  
CITY CLERK

APPROVED AS TO FORM AND LEGAL SUFFICIENCY  
FOR THE USE AND RELIANCE OF THE CITY OF DORAL ONLY:

  
\_\_\_\_\_  
LUIS FIGUEREDO, ESQ.  
CITY ATTORNEY

# EXHIBIT “A”



# CITY OF DORAL COMPREHENSIVE PLAN



## 2020 CAPITAL IMPROVEMENTS ELEMENT UPDATE

AUGUST 12, 2020.

Prepared by: **ILER** PLANNING



# DORAL COMPREHENSIVE PLAN CAPITAL IMPROVEMENTS ELEMENT UPDATE

August 12, 2020

## Table of Contents

INTRODUCTION.....	3
I. Population Estimates and Projections .....	4
II. Level-of-Service Analysis .....	5
A. Transportation .....	5
1. Roadways .....	5
2. Intersections.....	9
3. Transit.....	11
4. Bicycle/Pedestrian Facilities .....	12
5. De Minimus Impact Report .....	14
6. 5-Year Level-of-Service Transportation Projects .....	14
B. Potable Water Service .....	16
1. 5-Year Level-of-Service Water Projects .....	17
C. Sanitary Sewer Facilities .....	17
1. 5-Year Level-of-Service Wastewater Projects .....	18
D. Stormwater Management .....	18
1. 5-Year Level-of-Service Stormwater Projects .....	22
E. Solid Waste .....	22
1. 5-Year Level-of-Service Solid Waste Projects .....	23
F. Parks and Recreation .....	23
1. 5-Year Level-of-Service Projects .....	24
G. Education Facilities .....	27
1. 5-Year Capacity Projects in Doral .....	28
2. Charter and Private Schools .....	28
III. CAPITAL IMPROVEMENTS.....	30

## Figures

Figure 1: 2018 Level-of-Service Roadway Conditions .....	7
Figure 2: 2025 Projected Roadway Level-of-Service.....	8
Figure 3: Transit Routes in Doral.....	12
Figure 4. Doral’s Existing and Planned Bikeway Network.....	13
Figure 5: Doral Canal System .....	20
Figure 6. Prioritized Drainage Sub-Basins .....	21
Figure 7. Doral’s Park System (2020) .....	25

## Tables

Table 1: Population Estimates and Projections .....	4
Table 2: Existing Intersection Conditions LOS Summary.....	9
Table 3: Existing Intersection Traffic with Mitigation LOS Summary .....	10
Table 4. City Transportation Projects FY 2021-2025.....	14
Table 5: Planned State and County Transportation Projects in Doral Area FY 2021-2025 .....	15
Table 6: Miami-Dade WASD Water System Capacity and Demand Comparison.....	17
Table 7: Miami-Dade County WASD Regional Wastewater System Capacity.....	18
Table 8: City Stormwater Projects and Estimated Costs FY 2021-2025 .....	22
Table 9: Solid Waste Generation 2015-2030 .....	22
Table 10: Projected Parks Level-of-Service Acreage Needs .....	24
Table 11: Planned Parks Projects FY 2021-2025 .....	26
Table 12: Public School Capacity and Enrollment.....	28
Table 13: Enrollment and Capacity for Charter Schools in Doral.....	29
Table 14: Projected Revenues for Capacity-Related Projects by Funding Source .....	30
Table 15: Projected 5-Year Expenditures for Capital Improvements by Type .....	30
Table 16. Doral’s Schedule of Capital Improvements 2020/21 - 2024/25 .....	31

## INTRODUCTION

This document represents the annual update to the Capital Improvements Element (CIE) of the City of Doral Comprehensive Plan. Pursuant to Subsection 163.3177(3)(b)1, Florida Statutes, local governments are required to review the CIE on an annual basis and modify as necessary to maintain a financially feasible 5-Year Schedule of Capital Improvements (SCI).

The 2020 CIE Update includes all capital projects for which the City has fiscal responsibility, including stormwater management, parks and recreation, and transportation. The Update also includes capital improvement projects which are the responsibility of other government agencies and entities, including water supply, sanitary sewer, solid waste, public school facilities and transportation facilities. These “non-Doral” projects are funded by Miami-Dade County, Miami-Dade Public School Board, Miami-Dade Metropolitan Planning Organization (MPO) and the Florida Department of Transportation (FDOT).

This Update also provides level of service (LOS) analyses for all public facilities in the City based on population projections and related data. Projects included in the updated 5-Year SCI are needed to address projected public facility needs in order to meet future LOS demand. In addition, it demonstrates consistency with all other elements of the Comprehensive Plan. Each of the capital projects listed in the updated 5-Year SCI are consistent with applicable elements. When approved and adopted, this CIE update will supplement the CIE Element in the City’s adopted Comprehensive Plan. The 2020/21 - 2024/25 SCI herein will replace the 2019/20 SCI and updated data, inventory and analysis (DIA) will replace the 2019/20 DIA.

## I. Population Estimates and Projections

Population projections in comprehensive plans are used to forecast demand on public facilities and services. The current population projections for Doral are contained in the adopted 2019 Capital Improvements Update.

In developing Doral’s population projections for this CIE Update, various demographic sources including population estimates derived from the University of Florida, Bureau of Economic and Business Research (BEBR), and the U.S. Census were reviewed and analyzed. Recent population projections contained in Miami-Dade County’s adopted 20-Year Regional Water Supply Plan also provides another source of current and future population trends.

Table 1 below shows the historical and current estimates, and future projections of Doral’s population through the year 2040.

*Table 1: Population Estimates and Projections*

YEAR	POPULATION
2000	21,000
2005	33,633
2010	45,704
2015	55,660
2019	70,420
2020	71,746
2021	79,702
2022	82,342
2023	84,047
2024	85,753
2025	91,775
2030	98,868
2035	112,662
2040	118,409

Sources: U.S. Census and University of Florida BEBR 2000-2019; City Staff (2020-2040).

The population levels in Table 1 are utilized as the City’s current population projections in this CIE Update to determine the City’s public facility needs during the 5-year planning period from 2020/21 to 2024/25. City staff has calculated there are 7,935 dwelling units approved in site plans by the City but un-built as of July 2020 which provides an estimated future population capacity of 26,185 using the average Doral household size from the U.S. Census (3.3 persons/household). With these unbuilt dwelling units, Doral has sufficient residential inventory to accommodate future growth through 2025 and beyond.

## II. Level-of-Service Analysis

### A. Transportation

There are approximately 206 lane miles of roads within Doral maintained by two (2) separate government jurisdictions: City of Doral and Miami-Dade County. Each jurisdiction provides routine maintenance for their roadways. However, all roadway traffic control such as speed limit signs, stop signs and traffic signals fall under the jurisdiction of, and are maintained by, Miami-Dade County. Doral maintains 64.2 miles of roadway. Over the years, the City has taken over maintenance jurisdiction for many public roads and streets in Doral through inter-local agreements with the County. Expressways surround Doral on three (3) sides including State Road 821/Homestead Extension of the Florida Turnpike (Turnpike Enterprise), State Road 836/Dolphin Expressway (Miami-Dade Expressway Authority) and State Road 826/Palmetto Expressway (Florida Department of Transportation).

The City completed the 2<sup>nd</sup> update of its Transportation Master Plan (TMP) in 2017. The TMP is a long-range 20-year plan that guides Doral's mobility improvements within the City and with regional destinations. The 2017 TMP update inventoried and analyzed level of service (LOS) for existing roadways and projected future roadway LOS in the years 2016, 2025 and 2040. It also addressed transit, bikeway and pedestrian facilities and needs. In addition, the Plan identified and prioritized projects needed to address current and future transportation deficiencies, and methods for financing transportation and capacity-related improvements necessary to maintain adopted LOS standards.

#### 1. Roadways

Adopted level of service (LOS) standards for roadway facilities are contained in Policies 2.2.1, 2.2.2 and 2.2.3 of the City's Transportation Element. Generally, local roadways have an adopted LOS standard of "D"; where specialized transit exists, the LOS threshold is "D + 120%"; and on State facilities, the adopted LOS threshold is "E". The LOS analysis contained in this CIE update is based on 2018 traffic counts from the City of Doral Biennial Traffic Monitoring Report (dated October 16, 2018).

This section of the report addresses the performance of Doral's roadway system. Roadway vehicular counts were undertaken at various locations within the City. Using this data, level of service were calculated for each associated roadway segment on an AADT, Peak Hour Peak Directional, and Peak Hour Bi-directional basis. Traffic conditions were projected to 2025 using a combination of TPO and local growth factors, derived from an understanding of existing and planned future development. This provides an assessment of future conditions to determine project needs. Existing Conditions have been analyzed and traffic counts have been displayed in tabular form by facility. This serves as a handbook to detail the condition of each facility in the City. Categories of data include:

- \* Specific Link
- \* Number of Lanes
- \* Existence of a Median
- \* Road Jurisdiction

- \* Functional Classification
- \* Number of Traffic Signals
- \* Segment Length
- \* Signals per Mile
- \* Speed Limit
- \* Roadway Class
- \* Existing Level of Service Standard
- \* Service Volume at LOS C, D, E
- \* Average Annual Daily Traffic (AADT)
- \* Peak Hour Volume
- \* Remaining Capacity

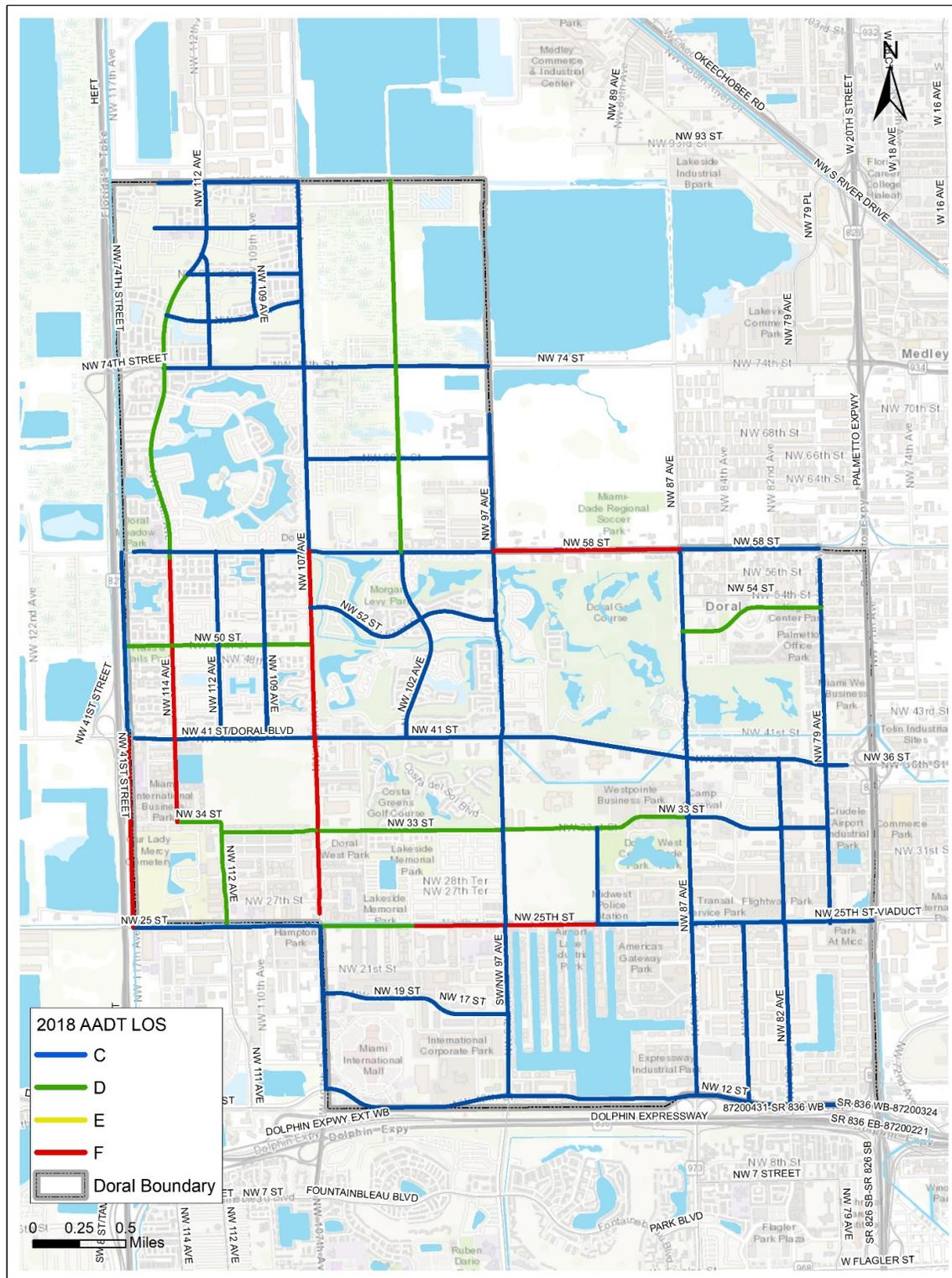
*Figure 1* shows the level-of-service (LOS) on the primary Doral roads in 2018. Roadways with average daily traffic flows exhibiting LOS “F” in 2018 were:

1. NW 58<sup>th</sup> Street - NW 87<sup>th</sup> Avenue to NW 97<sup>th</sup> Avenue.
2. NW 25<sup>th</sup> Street - NW 92<sup>nd</sup> Avenue to NW 102<sup>nd</sup> Avenue
3. NW 107<sup>th</sup> Avenue - NW 25<sup>th</sup> Street to NW 58<sup>th</sup> Street
4. NW 114<sup>th</sup> Avenue – NW 34<sup>th</sup> Street to NW 58<sup>th</sup> Street
5. NW 117<sup>th</sup> Avenue – NW 25<sup>th</sup> Street to NW 41<sup>st</sup> Street.

*Figure 2* presents the projected level-of-service on the City’s primary road system in 2025. Roadways with average daily traffic flows exhibiting LOS “F” in 2025 are projected to be:

1. NW 107<sup>th</sup> Avenue - NW 25<sup>th</sup> Street to NW 41<sup>st</sup> Street
2. NW 97<sup>th</sup> Avenue – NW 12<sup>th</sup> Street to NW 17<sup>th</sup> Street
3. NW 112<sup>th</sup> Avenue – NW 25<sup>th</sup> Street to NW 34<sup>th</sup> Street
4. NW 114<sup>th</sup> Avenue – NW 34<sup>th</sup> Street to NW 58<sup>th</sup> Street
5. NW 117<sup>th</sup> Avenue – NW 25<sup>th</sup> Street to NW 41<sup>st</sup> Street
6. NW 25<sup>th</sup> Street - NW 92<sup>nd</sup> Avenue to NW 117<sup>th</sup> Avenue
7. NW 41<sup>st</sup> Street – Palmetto Expressway to NW 197<sup>th</sup> Avenue
8. NW 34<sup>th</sup> Street – NW 112<sup>th</sup> Avenue to NW 114<sup>th</sup> Avenue
9. NW 74<sup>th</sup> Street – NW 97<sup>th</sup> Avenue to NW 107<sup>th</sup> Avenue.

Figure 1: 2018 Level-of-Service Roadway Conditions





The potential solutions to these documented and projected traffic conditions in the form of planned roadway and transit improvements were used as a primary input in the preparation of the FY 2020-2024 Schedule of Capital Improvements presented later in this report in Table 17.

## 2. Intersections

The City’s Transportation Master Plan (2016) included a total of 30 intersections with 29 signalized and 1 unsignalized intersection. The traffic volumes collected in the field were checked for accuracy. Pedestrian volumes were also input and analyzed in the Synchro software. For signalized intersections, the existing signal timings were obtained from Miami-Dade County. The of the Levels-of-Service (LOS) analyses for the study intersections follow the procedures outlined in the 2010 Highway Capacity Manual (HCM), Transportation Research Board, Special Report 209, and the latest Synchro software. The LOS findings have been summarized for 2016 Existing Conditions and 2016 Existing Conditions with Proposed Mitigation. It should be noted that only for unsignalized intersection, HCM does not compute a LOS value for “Yield” and “Free Flow” traffic movements. Consequently, HCM does not determine an overall LOS for those particular unsignalized intersections. The intersections in Table 2 below resulted in an overall LOS E or F during morning and afternoon peaks.

*Table 2: Existing Intersection Conditions LOS Summary*

No.	Intersection Name	Traffic Control	Overall LOS/Delay <sup>[1]</sup>	Approach LOS <sup>[2]</sup>			
				NB	SB	EB	WB
1	NW 12th Street & NW 107th Avenue	Signalized	E/55.9 sec (E/64.9 sec)	D (D)	D (D)	E (F)	E (F)
2A	NW 12th Street & NW 97th Avenue (Off Ramp)	Signalized	C/20.3 sec (A/8.5 sec)	N/A	C (C)	C (B)	A (A)
2B	NW 12th Street & NW 97th Avenue (On Ramp)	Signalized	A/9.8 sec (B/10.5 sec)	C (B)	N/A	A (A)	B (B)
3	NW 12th Street & NW 87th Avenue	Signalized	D/52.6 sec (D/54.6 sec)	C (D)	D (D)	F (F)	D (E)
4	NW 12th Street & NW 82nd Avenue	Signalized	C/26.1 sec (B/19.1 sec)	N/A	C (B)	C (B)	C (C)
5	NW 25th Street & NW 117th Avenue	Signalized	D/52.3 sec (E/72.6 sec)	E (F)	F (F)	D (D)	B (D)
6	NW 25th Street & NW 107th Avenue	Signalized	E/63.7sec (E/65.0 sec)	E (E)	D (E)	E (E)	D (E)
7	NW 25th Street & NW 97th Avenue	Signalized	D/43.9 sec (E/55.3 sec)	D (D)	D (E)	D (E)	D (D)
8	NW 25th Street & NW 87th Avenue	Signalized	E/57.5 sec (E/61.1 sec)	D (D)	D (D)	E (F)	E (E)
9	NW 25th Street & NW 82nd Avenue	Signalized	E/56.4 sec (D/53.1 sec)	E (E)	F (E)	C (D)	E (D)
10	NW 25th Street & NW 79th Avenue	Signalized	D/37.7 sec (E/65.8 sec)	E (D)	E (F)	C (D)	C (C)
11	NW 33rd Street & NW 107th Avenue	Signalized	F/85.2 sec (D/54.6 sec)	E (D)	F (C)	F (F)	D (E)
12	NW 33rd Street & NW 97th Avenue	Signalized	E/69.0 sec (E/62.3 sec)	D (D)	E (D)	F (D)	E (F)
13	NW 33rd Street & NW 87th Avenue	Signalized	E/55.4 sec (E/67.5 sec)	D (E)	D (D)	F (E)	E (F)
15	NW 41st Street & HEFT NB Off -Ramp	Signalized	B/11.5 sec (A/7.9 sec)	A (B)	N/A	B (B)	A (A)
16	NW 41st Street & NW 115th Avenue	Signalized	D/35.2 sec (D/36.3 sec)	C (E)	E (D)	C (C)	D (D)
17	NW 41st Street & NW 114th Avenue	Signalized	E/72.4 sec (E/60.7 sec)	E (F)	F (F)	E (D)	D (D)
18	NW 41st Street & NW 107th Avenue	Signalized	F/80.8 sec (E/77.8 sec)	F (E)	F (F)	E (E)	F (F)

Capital Improvements Element Update

19	NW 41st Street & NW 102nd Avenue	Signalized	D/40.7 sec (D/36.1 sec)	F (E)	E (E)	C (C)	C (C)
20	NW 36th Street & NW 87th Avenue	Signalized	E/69.7 sec (E/70.2 sec)	D (E)	E (F)	F (E)	E (E)
21	NW 36th Street & NW 82nd Avenue	Signalized	C/32.1 sec (D/45.6 sec)	F (F)	F (F)	C (C)	B (B)
22	NW 36th Street & NW 79th Avenue	Signalized	E/68.4 sec (F/124.8 sec)	F (F)	F (F)	D (E)	E (E)
23	NW 58th Street & NW 114th Avenue	Signalized	D/53.7 sec (D/42.8 sec)	D (C)	C (D)	E (D)	F (D)
24	NW 58th Street & NW 107th Avenue	Signalized	E/62.9 sec (E/69.3 sec)	F (F)	D (E)	E (D)	E (E)
25	NW 58th Street & NW 97th Avenue	Signalized	E/69.1 sec (E/73.1 sec)	F (F)	F (F)	D (D)	D (E)
26	NW 58th Street & NW 87th Avenue	Signalized	E/60.1 sec (F/91.1 sec)	F (F)	F (F)	C (C)	D (D)
27	NW 58th Street & NW 79th Avenue	Signalized	E/64.2 sec (F/95.4 sec)	F (F)	F (E)	E (E)	D (D)
28	NW 74th Street & NW 114th Avenue	Signalized	E/73.9 sec (F/143.9 sec)	F (F)	F (F)	D (D)	D (E)
29	NW 74th Street & NW 107th Avenue	Signalized	F/140.8 sec (F/91.3 sec)	C (C)	F (D)	F (B)	B (F)
30	NW 74th Street & NW 97th Avenue	Unsignalized	F/62.0 sec (F/67.7 sec)	F (F)	A (A)	B (C)	F (B)

[1] - AM LOS without parenthesis; PM LOS with parenthesis; Delay in seconds per vehicle  
 [2] - AM LOS without parenthesis; PM LOS with parenthesis

Following review with the City staff of the information in Table 2, a mitigation strategy for each intersection with LOS E was developed. Mitigation includes adding lane capacity, removal of split phasing and signal timing optimization. Proposed improvements were analyzed with results included in Table 3. With the inclusion of proposed mitigation measures, the overall level of service for all the intersections improves, yet there are intersections that remain at LOS E or F.

Table 3: Existing Intersection Traffic with Mitigation LOS Summary

Intersection		Traffic Control	Overall LOS/Delay <sup>[1]</sup>	Approach LOS <sup>[2]</sup>			
No.	Name			NB	SB	EB	WB
1	NW 12th Street & NW 107th Avenue	Signalized	D/53.1 sec (E/58.1 sec)	D (D)	D (D)	E (E)	D (E)
2A	NW 12th Street & NW 97th Avenue (Off Ramp)	Signalized	C/20.1 sec (A/8.4 sec)	N/A	C (C)	C (B)	A (A)
2B	NW 12th Street & NW 97th Avenue (On Ramp)	Signalized	A/7.4 sec (B/8.5 sec)	B (A)	N/A	A (A)	B (B)
3	NW 12th Street & NW 87th Avenue	Signalized	D/47.6 sec (D/46.1 sec)	D (C)	D (D)	F (F)	D (E)
4	NW 12th Street & NW 82nd Avenue	Signalized	C/26.1 sec (B/19.1 sec)	N/A	C (B)	C (B)	C (C)
5	NW 25th Street & NW 117th Avenue	Signalized	C/29.2 sec (D/43.1 sec)	D (D)	D (C)	C (C)	B (D)
6	NW 25th Street & NW 107th Avenue	Signalized	E/59.9 sec (E/61.4 sec)	D (D)	D (D)	E (E)	E (F)
7	NW 25th Street & NW 97th Avenue	Signalized	C/31.8 sec (D/40.6 sec)	C (C)	C (D)	C (D)	C (D)
9	NW 25th Street & NW 82nd Avenue	Signalized	D/50.2 sec (D/51.9 sec)	E (E)	E (E)	D (D)	D (D)
10	NW 25th Street & NW 79th Avenue	Signalized	D/38.9 sec (D/46.2 sec)	D (D)	E (D)	C (D)	D (C)
11	NW 33rd Street & NW 107th Avenue	Signalized	E/55.5 sec (D/44.5 sec)	E (D)	D (C)	E (E)	D (E)
12	NW 33rd Street & NW 97th Avenue	Signalized	E/56.4 sec (D/46.9 sec)	D (D)	D (D)	D (D)	E (D)

13	NW 33rd Street & NW 87th Avenue	Signalized	D/54.7 sec (D/50.8 sec)	D (D)	E (D)	D (D)	D (E)
16	NW 41st Street & NW 115th Avenue	Signalized	D/36.6 sec (D/39.1 sec)	D (D)	E (D)	D (C)	C (D)
17	NW 41st Street & NW 114th Avenue	Signalized	E/58.1sec (D/51.8 sec)	D (E)	E (D)	E (D)	D (D)
18	NW 41st Street & NW 107th Avenue	Signalized	E/69.5 sec (E/73.1 sec)	E (E)	F (E)	E (E)	D (F)
19	NW 41st Street & NW 102nd Avenue	Signalized	C/30.5 sec (C/31.0 sec)	D (D)	D (D)	C (C)	C (C)
20	NW 36th Street & NW 87th Avenue	Signalized	E/62.1 sec (E/62.2 sec)	E (E)	E (E)	E (E)	D (E)
21	NW 36th Street & NW 82nd Avenue	Signalized	C/22.9 sec (C/23.4 sec)	E (E)	E (E)	B (B)	B (B)
22	NW 36th Street & NW 79th Avenue	Signalized	D/47.0 sec (F/103.9 sec)	D (F)	E (F)	D (F)	D (E)
23	NW 58th Street & NW 114th Avenue	Signalized	D/38.0 sec (D/47.6 sec)	C (D)	C (D)	E (D)	D (D)
24	NW 58th Street & NW 107th Avenue	Signalized	D/47.9 sec (D/46.7 sec)	D (D)	D (D)	E (D)	D (D)
25	NW 58th Street & NW 97th Avenue	Signalized	D/42.4 sec (D/37.6 sec)	D (C)	D (C)	D (D)	C (D)
26	NW 58th Street & NW 87th Avenue	Signalized	D/41.8 sec (D/45.9 sec)	D (E)	E (D)	D (D)	C (D)
28	NW 74th Street & NW 114th Avenue	Signalized	D/40.8 sec (D/40.2 sec)	C (C)	C (C)	D (D)	D (E)
29	NW 74th Street & NW 107th Avenue	Signalized	D/53.8 sec (D/46.3 sec)	D (E)	E (E)	E (B)	C (D)
30	NW 74th Street & NW 97th Avenue	Signalized	B/10.0 sec (C/20.7 sec)	D (B)	A (A)	A (B)	B (C)
[1] - AM LOS without parenthesis; PM LOS with parenthesis; Delay in seconds per vehicle [2] - AM LOS without parenthesis; PM LOS with parenthesis							

### 3. Transit

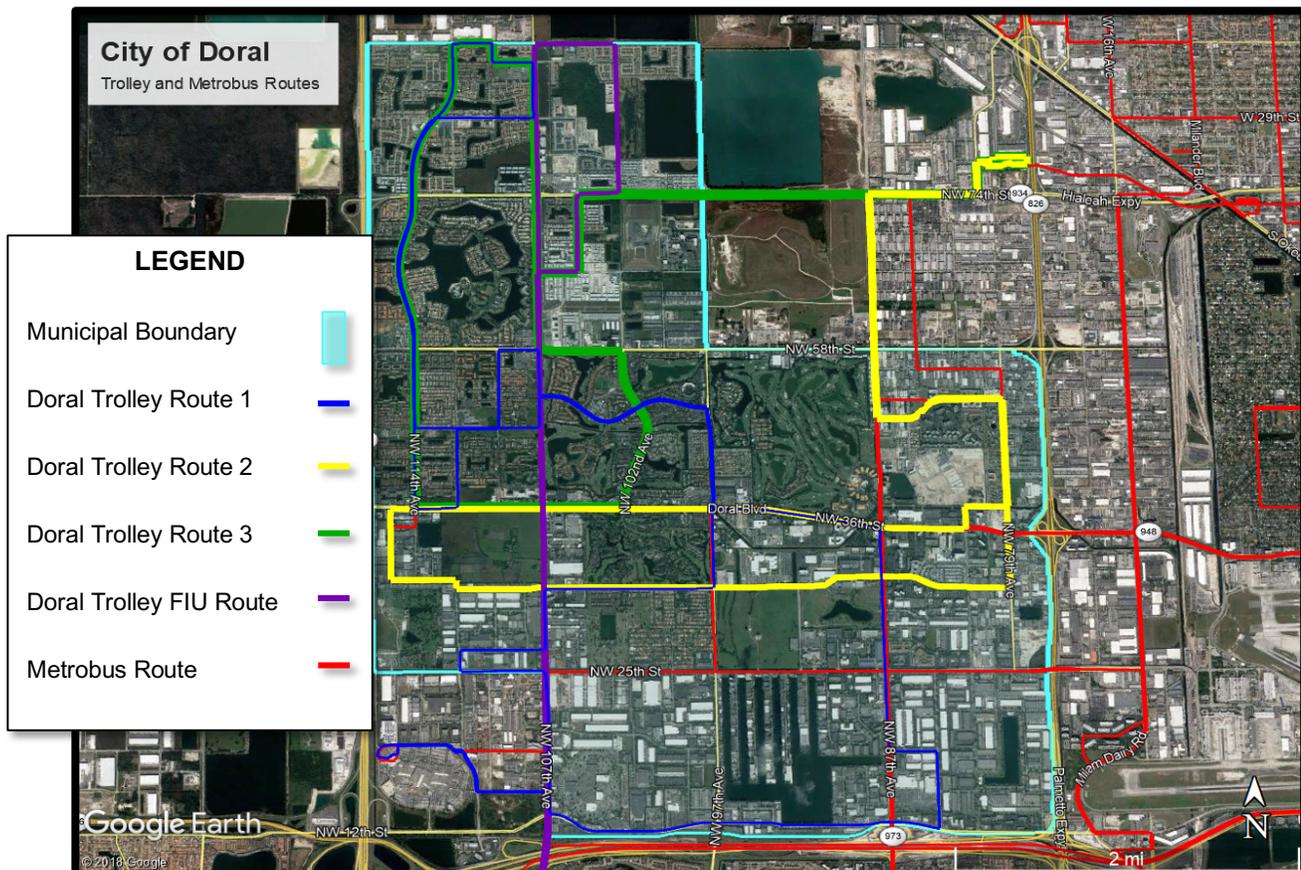
The City of Doral is served by Miami-Dade Transit (MDT) routes 7, 36, 71, 87, 132, 137, 238, the 95-Express Earlington Heights Route (952) as well as by its local circulator, the Doral Trolley. Figure 3 shows the routes of Miami-Dade Transit within the City of Doral and the Doral Transit System’s Trolley Route.

The free-fare Doral Trolley System launched on February 1, 2008. It is a local circulator which now serves the city through four (4) routes (R1, R2, R3 and R4), with route R1 providing connector service to MDT Metrobus routes at Miami International Mall and routes R2 and R3 providing connector service to the Miami-Dade Transit Metrorail via the Palmetto Metrorail Station in Medley. Route R4 commenced in August 2018 and provides service to Florida International University (FIU) along NW 107<sup>th</sup> Avenue. While these routes are intended to serve separate areas of the City, there is significant overlap between them. Because there are no dedicated trolley lanes, trolleys operate on the same roadways used by individual vehicles. The City conducts regular trolley ridership surveys which reveal that ridership is varied both in user numbers and trip purpose for all three routes. Ridership details provide insight into the route alignment and stops and Trolley frequency.

Route 1 has the highest ridership, followed by Routes 3, 4 and 2, respectively. Route 2 has a comparatively low overall ridership. High ridership boarding locations not only show the locations of high activity and indication of the demographics of route ridership, but where the routes intersect, provide insight into potential hub or corridor development areas. Conversely, low ridership indicates a need to consolidate

stops. There are also lower performing stops on all three Routes. Stops falling into these categories should be specifically examined for elimination in a Route revision.

Figure 3: Transit Routes in Doral



Source: City of Doral Public Works Dept., June, 2020.

Factors that affect both the level of ridership and the quality of trips include access to and amenities at Trolley stops. Trolley stop accessibility includes a sidewalk to the stop that meets ADA requirements including curb cuts, a lift area, and minimum unobstructed sidewalk widths. Amenities may include the Trolley guide and associate signage, benches, shelters, and trash cans.

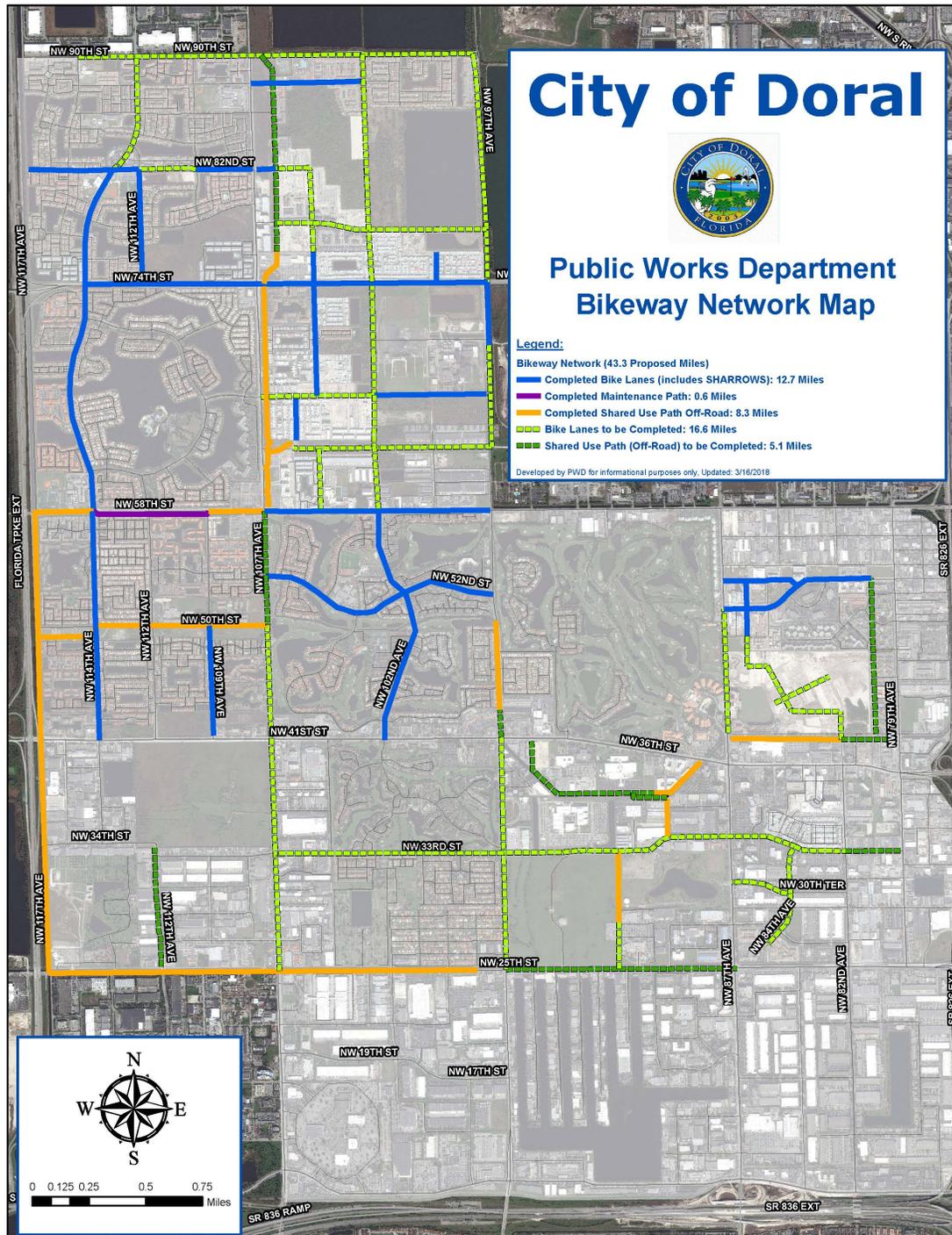
Key locations within for transit ridership within the City of Doral include the Palmetto Metrorail Station, the residential areas in northwest Doral, Miami International Mall, and NW 41<sup>st</sup> Street/NW 97<sup>th</sup> Avenue.

#### 4. Bicycle/Pedestrian Facilities

The City’s goal is to encourage intra-city trips by bicycle and walking. The majority of the Doral is interconnected by sidewalks. The City has developed a Bikeway Network Plan that contains a series of bike lanes and multi-use paths. Figure 4 shows the current and planned bikeway network in Doral.

Currently the completed network consists of 12.7 miles of bike lanes, 8.3 miles of off-road shared-use paths, and 0.6 miles of maintenance path. A total of 21.7 miles of bike lanes and shared-use paths are planned.

Figure 4. Doral's Existing and Planned Bikeway Network



### 5. De Minimus Impact Report

Pursuant to Section 163.3180(6), F.S. local governments must submit a de minimus impact report with the Capital Improvements Element update. A de minimus impact is defined as an impact that would not affect more than 1 percent of the maximum volume at adopted LOS of the affected transportation facility; no impact is a de minimus if the sum of the existing roadway volumes and the projected volumes from approved projects on a transportation facility would exceed 110 percent of the maximum volume at the adopted LOS and provided that an impact of a single-family home on an existing lot will constitute a de minimus impact on all roadways regardless of the level of deficiency of the roadway. Based on the above definition of de minimus impact and current City traffic data, Doral does not need to file a de minimus impact report.

### 6. 5-Year Level-of-Service Transportation Projects

To address the LOS deficiencies now and expected by 2024-25, the City has programmed 22 roadway and multi-modal capacity projects through the 5-year planning period. These projects are listed in Table 4 below and will be funded primarily through the City’s Transportation Fund.

*Table 4. City Transportation Projects FY 2021-2025*

Project Location	Type of Work	Implementation Timeframe (Fiscal Year)
1. Citywide	City Sidewalks Phase 2	2021
2. Citywide	Traffic Monitoring Cameras	2023
3. Citywide	Roadway Maintenance	2025
4. Citywide	Traffic Calming Program	2025
5. Citywide	Transit Mobility & Infrastructure	2025
6. Citywide	NW 102 Av Bike Path and City Sidewalks	2025
7. Citywide	Intersection Improvements	2025
8. Citywide	Do Not Block Box Intersections	2024
9. NW 102 Av Widening	NW 102 Av & 62 St Intersection	2024
10. NW 90 St Roadway Improvements	Section 7 Vacant Land	2025
11. NW 99 Av – New Roadway	From 64 St to 66 St	2024
12. NW 112 Av & 114 Av Intersection	NW 41 St to 58 St - improvements	2023
13. NW 114 Av Improvements	NW 34 St to 39 St	2024
14. NW 34 St Roadway Improvements	NW 117 Av to 112 Av	2023
15. NW 117 Av – New Roadway	NW 58 St to North of E. T. School	2023
16. NW 117 Av - New Roadway	NW 25 St to 34 St	2025
17. NW 33 St Roadway Improvements	NW 107 Av to 112 Av	2022
18. Turnpike Trail Bridge Over Doral Blvd.	Doral Blvd. just east of Turnpike	2021
19. NW 112 Av – New Roadway	Nw34 St to 41 St	2024
20. NW 112 Av – New Roadway	Land Acquisition for New Road	2023
21. New Road Connections on NW 82 Av & 84 Av	NW 14 St to 21 St	2024
22. NW 33 St Roadway Improvements	NW 79 Av to 82 Av	2025

Source: Doral Public Works Department (June 2020)

In addition to the City-funded transportation projects listed above, a number of capacity improvement projects in the City have been identified in the current Miami-Dade County Metropolitan Planning

Organization (MPO) Transportation Improvement Program (TIP). The TIP is a staged multi-year program that prioritizes all federally-funded transportation projects as well as all other priority transportation projects funded by State and/or local governments over the next 5-year period. The planned projects are shown in *Table 5*.

*Table 5: Planned State and County Transportation Projects in Doral Area FY 2021-2025*

FACILITY	LIMITS	TYPE OF WORK	RESPONSIBLE AGENCY	CONSTRUCTION TIME FRAME	TOTAL COST FY 2021-2025
SR 826 (Palmetto Expressway)	SR 836 to SR 93/I-75	PD&E/EMO	FDOT	----	PYF*
SR 826 (Palmetto Expressway)	From SR 968 (W Flagler St to NW 154 St	PD&E/EMO	FDOT	----	\$6.6 million
SR 826 (Palmetto Expressway)	Express Lanes Tolling & Ramp Signaling Operation	Technical Assistance	FDOT	2020-2023	\$2.169 million
City of Doral - Bicycle/Pedestrian Bridge Over Doral Blvd	----	Pedestrian/Wildlife Overpass	FDOT	2021-2022	\$2.438 million
City of Doral Citywide Sidewalk, Curb Ramp & Crosswalk Improvements	----	Sidewalk Construction	FDOT	2020-2021	\$1.515 million
City of Doral-FIU/Panther Station Trolley Route	----	Transit Service Demonstration	FDOT	2020-2021	\$0.520 million
HEFT	MP 33.2 to MP 35.4 (SB) & MP 35.4 to 38.0 (NB)	Resurfacing	FL Turnpike Enterprise	----	PYF*
HEFT	MP 33.2 to MP 40.15	Thermoplastic For HEFT Resurfacing	FL Turnpike Enterprise	----	PYF*
HEFT	MP 33.2 to MP 40.15	Guardrail	FL Turnpike Enterprise	----	PYF*
HEFT	SR 836 (MP 32) to NW 106 St (MP 34)	6/8 to 10 Lanes Including Express Lanes	FL Turnpike Enterprise	2021-22	\$12.000 million
HEFT	SR 836 (MP 32) to NW 106 St (MP 34)	Signing/Pavement Marking	FL Turnpike Enterprise	----	PYF*
HEFT	SR 836 to I-75	Miscellaneous Construction	FL Turnpike Enterprise	----	PYF*
SR 836 Interchange Modifications at 87th Ave	SR 836 West of NW 82 Ave to NW 97 Ave	Interchange Improvements	MDX	----	PYF*
SR 836 (Dolphin) New HEFT Ramp Connections	NB/SB HEFT to EB/WB SR 836 (Dolphin)	New Connector	MDX	2020-2024	\$56.460 million
NW 58 St	NW 97 Ave to SR 826	Road Reconstruction	MDC	Under Design	PYF*
NW 82 Ave	NW 7 St to NW 12 St	Widen from 2 to 3 Lanes	MDC	Under Design	PYF*
NW 84 Ave	NW 58 St to NW 74 St	Widen from 2 to 4 Lanes	MDC	Design Completed	PYF*
NW 58 St	NW 97 Ave to SR 826	Resurfacing	MDC	Construction Completed	PYF*
NW 79 Ave and NW 56 St	NW 79 Ave and NW 56 St	Traffic Signal	MDC	Under Design	PYF*
NW 107 Ave and NW 14 St	NW 107 Ave and NW 14 St	Traffic Signal	MDC	Under Design	PYF*
NW 97 Ave	NW 52 St to NW 58 St	Widen from 2 to 4 Lanes	MDC	Under Design	PYF*
NW 97 Ave	NW 58 St to NW 70 St	Widen from 2 to 4 Lanes	MDC	Under Design	PYF*

## Capital Improvements Element Update

FACILITY	LIMITS	TYPE OF WORK	RESPONSIBLE AGENCY	CONSTRUCTION TIME FRAME	TOTAL COST FY 2021-2025
NW 107 Ave	NW 12 St to NW 25 St	Resurfacing	MDC	Construction Completed	PYF*
NW 107 Ave and NW 12 St	NW 107 Ave and NW 12 St	Intersection Improvement	MDC	Design Completed	PYF*
NW 79 Ave and NW 36 St	NW 79 Ave and NW 36 St	Intersection Improvement	MDC	Construction Completed	PYF*
NW 107 Ave and NW 41 St	NW 107 Ave and NW 41 St	Intersection Improvement	MDC	Under Construction	PYF*
NW 107 Ave and NW 58 St	NW 107 Ave and NW 58 St	Intersection Improvement	MDC	Under Design	PYF*
NW 12 St	----	Add Bus Only Lanes	MDC	----	\$ 3.928 million
Dolphin Station	HEFT and NW 12 Street	Transit Center with Park and Ride Lot	MDC	Project Completion Scheduled for Summer 2019	PYF*
NW 74 St and NW 102 Ave	NW 74 St and NW 102 Ave	Traffic Signal	MDC	JPA** With City of Doral	PYF*
NW 74 St and NW 97 Ave	NW 74 St and NW 97 Ave	Traffic Signal	MDC	JPA** With City of Doral	PYF*
NW 25 Street	NW 117 Ave to NW 87 Ave	Widen from 4 to 6 Lanes	MDC	2020-2025	\$38.984 million
NW 87 Avenue	NW 12 Street to NW 21 Terrace	Resurfacing	MDC	Construction Completed	PYF*
NW 107 Ave	NW 41 St to NW 58 St	Resurfacing	MDC	Construction Completed	PYF*
NW 107 Ave and NW 33 St	NW 107 Ave and NW 33 St	Intersection Improvement	MDC	Under Design	PYF*

\*PYF: Prior Year Funding

\*\* JPA: Joint Participation Agreement

Source: Miami-Dade County MPO 2021 TIP, (2021-25) Approved May 21, 2020.

Other roadway improvement projects currently not programmed in the FY 2020-2024 schedule may be added in future CIE Updates as funding becomes available at the Federal, State and local levels of government.

The City is proactively addressing roadway deficiencies which occur primarily on its roadways and working closely with County and State agencies to address LOS needs on their roadways through 2023-24 and beyond.

### B. Potable Water Service

Doral receives water service from Miami-Dade County Water and Sewer Department's (WASD) Hialeah/Preston Water Treatment Plant (WTP). The plant is owned and operated by WASD, who is responsible for maintaining the distribution and treatment facilities serving the City. Altogether, WASD owns and operates three (3) regional water treatment plants throughout the County. The capacity of WASD's regional water system is 473 million gallons per day (MGD). Infrastructure Element Policy 5A.1.1 of the City's Comprehensive Plan establishes the adopted level of service (LOS) standard for potable water at 126.82 gallons per capita per day. The City will revise this number after the Green Master Plan is completed and recommendations are implemented for water conservation efforts.

Regional water system capacity projections have been developed based on current water system capacity, planned capacity projects, and current and projected demand from retail water customers within the County. A summary of WASD’s projected potable water demand and rated capacity is provided in *Table 6* below.

*Table 6: Miami-Dade WASD Water System Capacity and Demand Comparison*

YEAR	RATED CAPACITY (MGD)	FINISH WATER DEMAND (MGD)	POPULATION SERVED
2015	463.93	327.37	2,266,092
2020	464.74	342.37	2,370,769
2025	464.74	357.25	2,475,446

MGD = Million Gallons per Day.

Source: WASD Water Supply Facilities Work Plan.

*Table 6* shows that the County will have sufficient water system capacity through 2025. Therefore, LOS is expected to be maintained through 2025 and beyond for the portion of the regional water system serving the City of Doral. The City has an adopted 20-Year Water Supply Facilities Work Plan. The goal of the water supply planning process is to determine the local water needs, and develop sound and workable solutions and policies to meet those needs. The Plan references the initiatives already identified by WASD to ensure adequate water supply for the City of Doral. According to the State guidelines, the Plan and the Comprehensive Plan must address the development of traditional and alternative water supplies, service delivery and conservation, and reuse programs necessary to serve existing and new developments for at least a 10-year planning period. It should be noted the City is currently updating its 10-Year Water Supply Plan and Green Master Plan, both of which will contain a number of water conservation strategies, policies and programs.

### **1. 5-Year Level-of-Service Water Projects**

Miami-Dade County’s 20-Year Water Supply Facilities Work Plan identifies an Alternative Water Supply Project (AWSP) for the Hialeah/Preston WTP in three (3) phases to be planned and constructed from 2007 through 2027. The overall project will provide an additional capacity of 17.5 MGD for the Hialeah/Preston WTP. Phase 1 of the AWSP is complete and has added an initial 10 MGD of capacity.

### **C. Sanitary Sewer Facilities**

The adopted level of service (LOS) standard for sanitary sewer in Doral is 100 gallons per capita per day, as noted in Policy 5B.1.1 of the Infrastructure Element of the Comprehensive Plan. Sanitary sewer service in the City is provided by Miami-Dade County’s Water and Sewer Department (WASD). The LOS standard for wastewater in the County requires all regional water treatment plants to operate with a physical capacity of no less than the annual average daily sewage flow. According to the County’s Evaluation and Appraisal Report (EAR), the County’s system has historically maintained this baseline requirement. Currently, the County has a regional wastewater system capacity of 375.5 million gallons per day (MGD). *Table 7* shows the projected regional system wastewater demand and system capacity through 2025.

*Table 7: Miami-Dade County WASD Regional Wastewater System Capacity*

YEAR	POPULATION SERVED	TREATMENT CAPACITY (MGD)	WASTEWATER FLOW (MGD)
2015	2,273,852	375.5	316
2020	2,424,933	394	328
2025	2,576,015	401	337

MGD = Million Gallons per Day.

Source: WASD Water Supply Facilities Work Plan).

According to *Table 7*, WASD’s regional wastewater system will have enough capacity through 2025. Therefore, LOS for sanitary sewer will be maintained in the portions of the City served by WASD’s wastewater collection system.

### 1. 5-Year Level-of-Service Wastewater Projects

No capacity-related projects for the County’s wastewater system have been identified for the 5-year period.

## D. Stormwater Management

The City of Doral falls within the boundaries of the C-4 and C-6 Basins within the Central Miami-Dade Watershed. These basins drain into South Florida Water Management District (SFWMD) primary canals, the C-4 and the C-6 which flow from the Everglades to Biscayne Bay. There are three (3) main secondary canals which convey stormwater from the city to the C-4 and C-6 canals: the Northline Canal, located along the north side of NW 25<sup>th</sup> Street, the C-2 Extension Canal, located along NW 117<sup>th</sup> Avenue, and the Dressels Canal which crosses the City from NW 117<sup>th</sup> Avenue to the Palmetto Expressway. Figure 5 depicts the canal system in Doral.

Doral adopts the following system-wide drainage level of service (LOS) standards for new development and redevelopment in Policy 5C.1.1 of the Infrastructure Element:

- \* Water Quality Standard. Stormwater facilities shall meet the design and performance standards established in Chapter 62-25, Rule 25.025, Chapter 40-E, Chapter 40E-40, Florida Administration Code (FAC), and Section 24-48, of the Code, with the retention of the first inch of runoff onsite to meet the water quality standards required by Chapter 62-302, Rule 862-302.500, FAC, and Section 24-42 of the Code.
- \* Water Quantity Standard. Where two or more standards impact a specific development, the most restrictive standard shall apply:
  - + Post-development runoff shall not exceed the pre-development runoff rate for a 25-year storm event, up to and including an event with 24-hour duration.

- + Treatment of the runoff from the 5-year storm event, 24-hour duration, in accordance with Section D-4, Part 2, Miami-Dade County Public Works Manual and Sec. 24-48.3 (7) and Rule 40E-40.302, FAC, “Basis of Review, Volume IV Manual.”
  - + Treatment of the runoff from the first one inch of rainfall onsite or the first 0.5 inch of runoff from impervious areas, whichever is greater.
- \* *Flooding Standard.* During the 10-year return design storm event, flooding of minor arterials should be below the crown of the roadway.

The City requires all new developments to provide adequate on-site drainage prior to the issuance of a building permit to maintain LOS standard for drainage. However, there were a number of pre-existing deficient drainage conditions when the City was incorporated in 2003. In 2006, Doral adopted its first Stormwater Master Plan to study existing stormwater drainage conditions, and to identify and prioritize projects to correct existing deficiencies and improve level-of-service. Since the adoption of the Stormwater Master Plan, the City’s Public Works Department has completed all projects listed in the Plan except for those improvements which are the responsibility of the County or private property owners. In 2014 the City completed an updated Stormwater Master Plan which forms the basis for the Stormwater 5-year Schedule of Capital Improvements. The city is currently updating its Low Impact Development Master Plan and will be implementing recommendations from that study into the Land Development Code.

The City’s Stormwater Master Plan (SWMP) serves as a planning-level engineering document that analyzes the current condition of the City’s existing storm water management systems, identifies high priority flood prone areas, and establishes a five-year capital improvement plan to implement the most cost effective projects to address these areas. SWMP’s are typically updated on 5-year cycles, at a minimum, and this current version of the SWMP supersedes the most recent SWMP update that was performed for the City in 2009. The analysis performed for this SWMP takes into consideration the primary components of the existing storm water management system (manholes, inlets, and major conveyance pipes), canals and lakes, topography, land uses, as well as groundwater elevations, and historical rainfall when analyzing the primary existing drainage infrastructure throughout the City. These elements are all combined and analyzed within a mathematical Hydraulic and Hydrologic model that simulates the performance of the City’s primary drainage systems using design rainfall events. The City’s secondary drainage storm water management systems, such as individual inlets, manholes, and minor conveyance systems which control drainage within the sub-basin, are not analyzed as a part of this SWMP because this SWMP is a planning-level analysis. The secondary drainage systems are typically analyzed in the design phase and not in the Master Planning study phase.

The results of this SWMP analysis serve to help identify and prioritize general areas where major drainage systems are deficient and define the extent of the deficiencies. With problem areas identified, planning-level drainage projects can be developed and prioritized with the intent of alleviating flooding in flood prone areas. The City’s drainage system deficiencies are identified through a series of sub-basins which are color coded for priority ranking purposes and depicted in Figure 6. This system allows the City to identify and prioritize the most cost-effective storm water management projects for inclusion in the 5-Year CIE Schedule of Capital Improvements and City Capital Improvement Program. Additionally, planning-level construction costs for these projects can be determined in order to budget and define the implementation schedule for the proposed planning-level projects. As with most planning-level

documents of this type, the projects presented in this SWMP do not require the City to allocate funding for, or require the City to design and construct projects in this order or magnitude. The main intent of the contents of this SWMP is to serve as a guide for the City in order to identify problem areas, develop potential future projects, and correlating those future projects with a planning-level cost. With those items identified, the City can then internally decide which areas to concentrate engineering efforts and funding based on the recommendations of the SWMP.

Figure 5: Doral Canal System

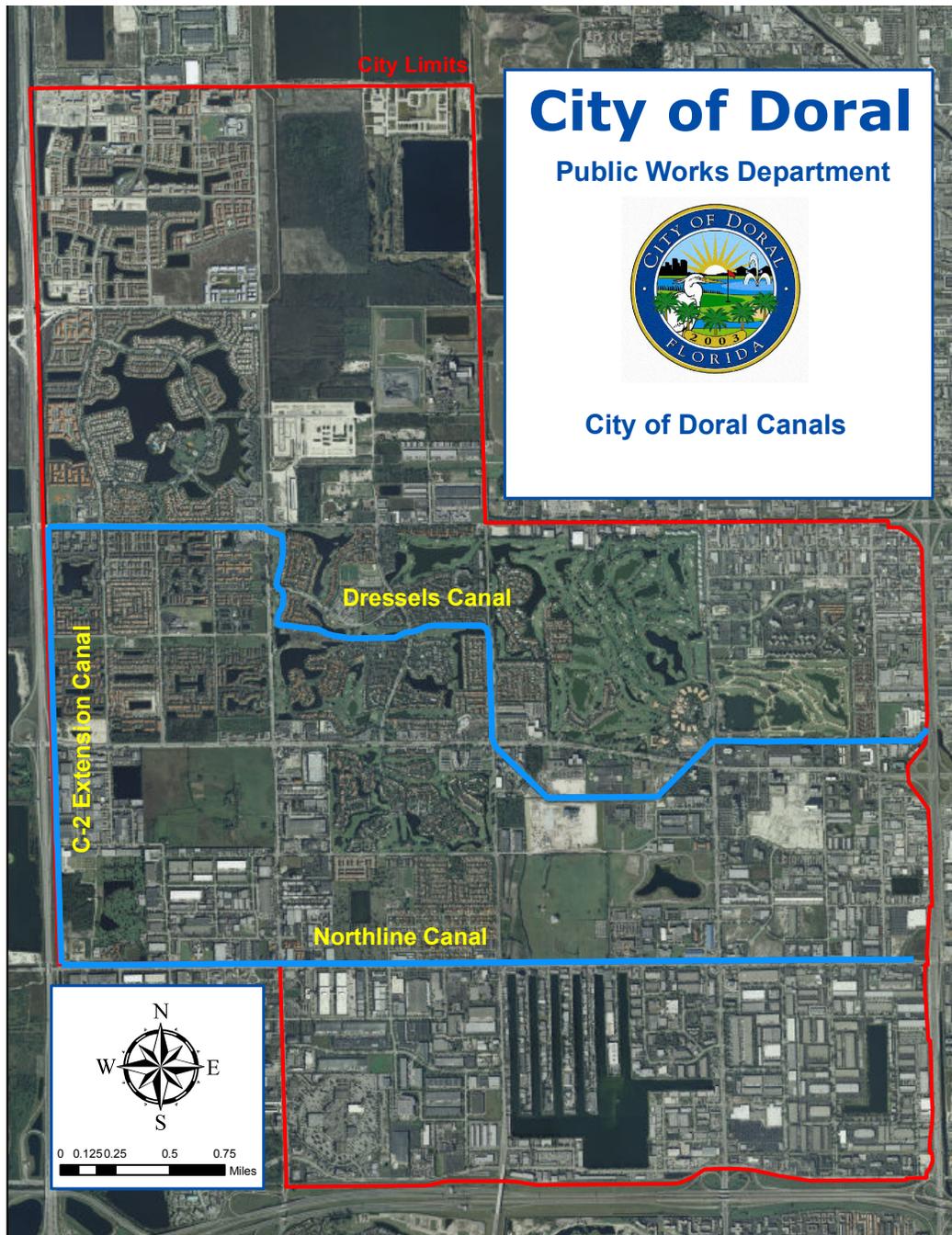
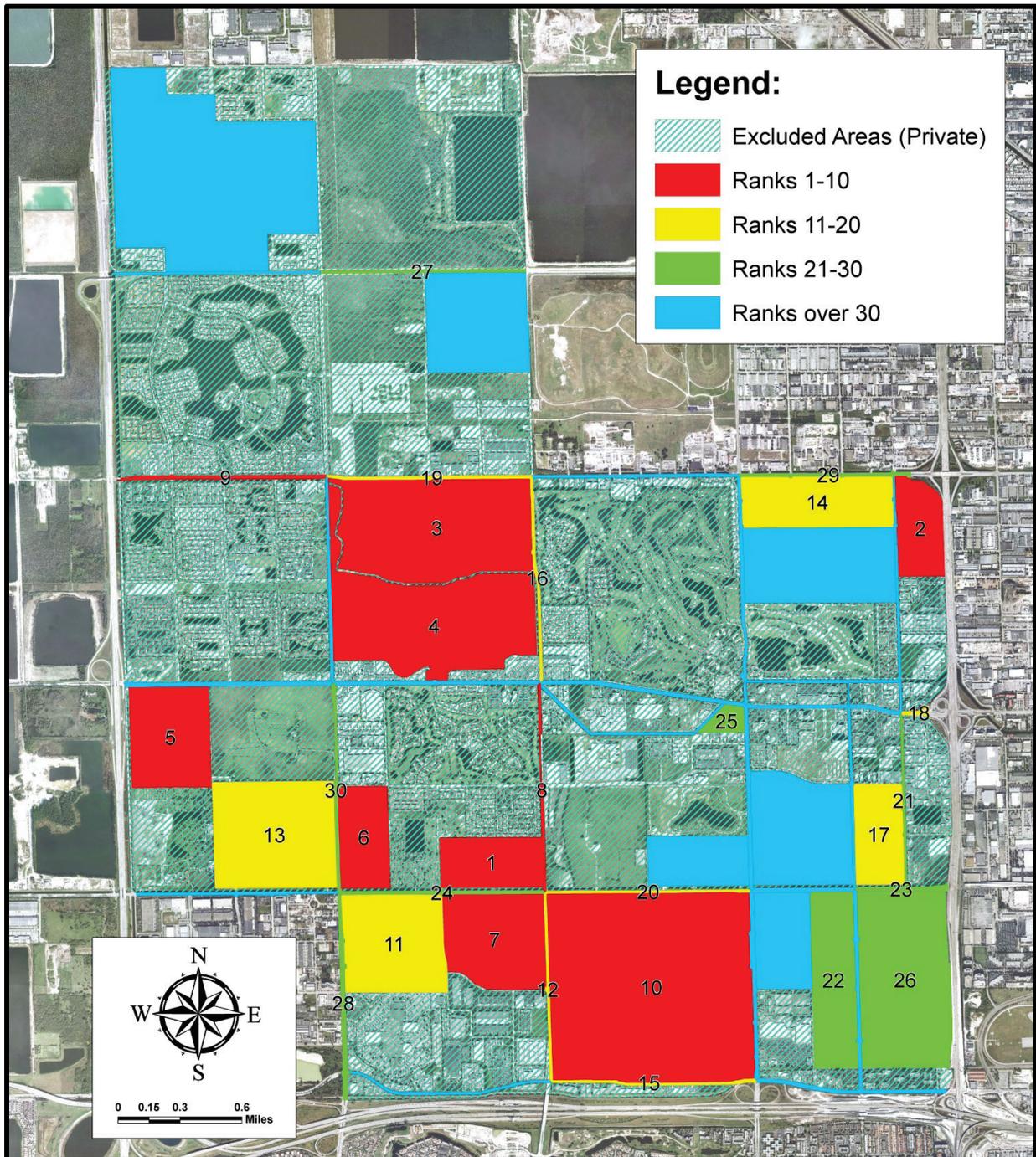


Figure 6. Prioritized Drainage Sub-Basins



**1. 5-Year Level-of-Service Stormwater Projects**

Although all projects have been completed in the Stormwater Master Plan, the City has continued to provide funding for repair and maintenance City-wide through the Stormwater Fund. Two (2) important projects are the Canal Bank Stabilization Program and Citywide general stormwater improvements and maintenance, including catch basin maintenance, street sweeping, canal maintenance, and floating debris removal. Table 8 below shows the projects and costs for planned stormwater improvements planned during the next 5 years. The total cost of the 5-year program is estimated to be \$6,375,000.

*Table 8: City Stormwater Projects and Estimated Costs FY 2021-2025*

Project	FY 2020-21 (in \$\$s)	FY 2021-22 (in \$\$s)	FY 2022-23 (in \$\$s)	FY 2023-24 (in \$\$s)	FY 2024-25 (in \$\$s)
NW 78 Av: NW 12 St – NW 15 St			250,000		
NW 89 Pl: NW 23 St – NW 24 Ter	750,000				
NW 33 St: NW 87 Av – NW 82 Av			400,000		
NW 114 Av: NW 60 St – NW 74 St					500,000
NW 89 Ct: NW 12 St – NW 15 St					275,000
NW 88 Av: NW 13 Ter – NW 15 St					175,000
NW 113 Ter: NW 87 Av – NW 89 Ct					275,000
NW 115 Av: NW 31 St – Doral Blvd					750,000
Stormwater Master Plan Projects		1,500,000		1,500,000	
<b>TOTALS</b>	<b>750,000</b>	<b>1,500,000</b>	<b>650,000</b>	<b>1,500,000</b>	<b>1,975,000</b>

Source: Doral Public Works Dept.,  
June 2020

**E. Solid Waste**

The City’s adopted level of service (LOS) standard for solid waste is 9.4 pounds per capita per day in Infrastructure Element Policy 5D.1.2 of the Comprehensive Plan. Table 9 below shows the projected solid waste which could be generated in the City through 2030.

*Table 9: Solid Waste Generation 2015-2030*

YEAR	POPULATION	LOS (lbs./capita/day)	SOLID WASTE GENERATED (tons/day)
2015	55,660	9.4	262
2020	71,282	9.4	335
2025	91,409	9.4	430
2030	103,421	9.4	486

Source: Iler Planning (2019)

The City has an interlocal agreement with Miami-Dade County Department of Public Works and Waste Management (PWWM) for County collection, recycling and disposal of solid waste generated within Doral. According to the County's Comprehensive Development Master Plan, there will be sufficient landfill capacity to serve future development county-wide through 2025. The County's capacity analysis is based on projected demand generated by municipalities who have committed waste flows to the system by interlocal agreement, long-term contracts and anticipated non-committed waste flows in accordance with the County's adopted LOS standard. An average total of 775,000 tons of waste is landfilled per year.

The County has prepared a Solid Waste Master Plan which identifies new activities, programs, facilities and technologies to provide sustainable solid waste services to ensure public health and environmental protection for Miami-Dade County residents over the next 50 years. The Master Plan identifies solutions such as potential new technologies, operations or facilities, as well as a financial analysis and strategy for implementation.

Using the City's projected annual solid waste generation for the years 2020-21 through 2024-2025, the City will average approximately 134,630 tons per year annually through the 5-year period. There will be sufficient landfill capacity to accommodate the City's solid waste demand through 2025.

**1. 5-Year Level-of-Service Solid Waste Projects**

No new capacity-related projects have been identified for the 5-year period. The County's solid waste LOS will be maintained with the operation of the county-wide solid waste management system.

**F. Parks and Recreation**

The level of service (LOS) standard for Doral's parks system is contained in Parks and Recreation Element Policy 7.1.1 which was amended in 2018 as follows:

2012-2014:	3.75 acres of developed park land per 1,000 population
2015-2020:	2.25 acres of developed public park land per 1,000 population
2021-2025:	3.00 acres of developed public park land per 1,000 population

The Doral's Parks System is shown in Figure 7. The City currently has 168 acres of developed parks which includes the 82-acre Doral Central Park. The current LOS standard is 2.25 acres per 1000 population which generates a total park acreage of 161 acres in 2020. The annual projected park acreage need is presented in Table 10 below through the year 2030. The City will need a total of 275 acres of public park land to meet the LOS in 2025; this will require an additional 107 acres of new parks.

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*Table 10: Projected Parks Level-of-Service Acreage Needs*

YEAR	PROJECTED POPULATION	PARK LOS NEED (Acres)
2015	55,660	125
2019	70,420	158
2020	71,746	161
2021	79,702	239
2022	82,342	247
2023	84,047	252
2024	85,753	257
2025	91,775	275
2030	98,868	297*

\* Level-of-service standard of 3 acres per 1000 population assumed for 2030 Park Need.  
 Source: Iler Planning and Doral staff (2020)

**1. 5-Year Level-of-Service Projects**

The park development projects planned in FY 2020-2025 are shown in Table 11. Some of the projects are improvements to existing parks, however most represent new parkland acreage and thus will serve to increase the City’s current parks LOS as follows:

	<u>Acres</u>
Linear Greenway Park	29.5
Retention Park	3.0
Downtown Doral Cultural Center	1.3
<u>White Course</u>	<u>2.7</u>
Total New Park Areas.....	36.5 acres

The proposed projects above will add an additional 36.5 acres of park land giving Doral a total of 204.5 acres by the year 2025 if all planned park improvements are constructed. This total is 70.5 acres less than the parks acreage needed of 275 acres to maintain the adopted level-of-service standard of three (3) acres per 1000 population through 2025.

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Table 11: Planned Parks Projects FY 2021-2025

PROJECT	LOCATION	COMPLETION	SIZE ( in acres)
<b>City:</b>			
Doral Central Park	NW 87 <sup>th</sup> Ave. & 30 <sup>th</sup> St.	Sept. 2023	82
Linear Greenway Park	NW 50 <sup>th</sup> St. & NW 107 <sup>th</sup> Av.	Sept. 2025	29.5
Retention Park	NW 102 <sup>nd</sup> Av. & NW 62 <sup>nd</sup> St.	Dec. 2021	3.0
Downtown Doral Cultural Center	Adjacent to Downtown Doral Park	Dec. 2021	1.3
White Course	North of NW 41 <sup>st</sup> St & west of NW 84 <sup>th</sup> Av	Dec. 2021	2.7
<b>Private:</b>			
Environmental Passive Park	NW 107 Ave. and NW 74 St.	Concurrent with development – Sept. 2025	51
Grand Bay Preservation Park	NW 87 <sup>th</sup> St./NW 86 <sup>th</sup> St. (east of NW 107 <sup>th</sup> Ave.)	Concurrent with development – Sept. 2025	72

Source: Doral Parks Department, 2020.

A detailed description of each proposed park improvement is provided below:

1. Doral Central Park – is an 82-acre park is the largest in Doral and home to major events such as EGGstravaganza and the Independence Day Celebration. Its open green spaces and scenic lake views are ideal for corporate gatherings and community events. Central Park is located in the community heart of Doral adjacent to the headquarters of Carnival Cruise Lines and the United States Southern Command. As part of the voter approved Parks Bond Referendum, this park will be redeveloped to include amenities such as a 70,000 square foot indoor recreation center, aquatic facility with competition and teaching pools, formal events lawn, basketball and tennis courts, playgrounds, and multi-purpose green spaces.
2. Downtown Doral Cultural Center – This project includes the construction of a 9,000 square foot Cultural Arts Center and surrounding park space on the 1.3 acre parcel adjacent to the City’s existing Downtown Doral Park. It will serve to celebrate the unique culture of Doral, as well as the variety of cultures, arts and experiences embraced by the City’s residents. The building will include a large art gallery space, flexible multi-purpose room, multiple outdoor courtyards, catering area, dedicated vehicular drop-off area and public restrooms.
3. Retention Park - This proposed park site is located on 102<sup>nd</sup> Avenue and theoretical NW 62<sup>nd</sup> Street. The site will be used as a retention area for the Police/Public Works Building with 3 acres of the 5 acre parcel dedicated as a passive park site.
4. Linear Greenway Park – Areas under FP&L transmission lines adjacent to streets are being used as multi-purpose trails as proposed in the City’s Bicycle Master Plan and Parks and

Recreation Element Policy 6.2.6. Facilities and features include: multi-purpose trail/service access route with trailhead, naturalistic planted areas/native habitat plantings and public art. The linear park system comprises 41 acres.

5. White Course Park – The project consists of the development of a 2.7 acre parcel located within Downtown Doral South. Proposed amenities include a shaded playground, flexible event plaza, outdoor fitness stations, off-leash dog area, multi-purpose green space, restrooms, and picnic shelters.
6. Environmental Passive Park – This proposed private park site is located at NW 107<sup>th</sup> Avenue & 74<sup>th</sup> Street and contains wetlands. The site has been identified in the Parks System Master Plan as a future “Environmentally-Protected Park.” Low impact observation walkways on the perimeter of the wetlands and educational kiosks are planned.
7. Preservation Park (72 acres) – This proposed private park site (72 acres) is currently a highly-impacted wetland located between two residential developments. This natural resource would be restored transforming the site into a unique passive recreation amenity for the residents of Doral. The City’s goal is to make this preservation park a public access point; coordination with Miami-Dade County and the SFWMD will be required in the process.

## 2. Long-Term Planning

The City is meeting its parks level-of-service standard of 2.25 acres per 1000 population now, however in year 2021 the standard increases to 3.00 acres per 1000 population. Unless new park lands are identified and improved over the next five (5) years, the City will have a park level-of-service deficiency of 70.5 acres by 2025. Thus, the City is considering a number of long-term future projects to address this impending deficiency and grow Doral’s parks system. Great parks are an integral part of Doral’s future vision so this planning is critically important.

## G. Education Facilities

Public school facility planning for Doral is provided by Miami-Dade County Public Schools (MDCPS). Every year, MDCPS is required to update and submit a Five-Year District Facilities Work Plan to demonstrate available and projected student capacity, and related information on project funding for capacity-related projects. The information below summarizes the current and projected level of service (LOS) for public schools serving Doral from the current MDCPS Five-Year District Facilities Work Plan.

The City has seven (7) public schools located within its boundary. Table 12 provides the 2018 (October) capacity and enrollment for these public schools. It shows that 2 of the 4 grades K-8 public schools in Doral are currently operating above 100% of permanent capacity. Ronald Reagan / Doral Senior High School is operating at 102% of capacity. Total enrollment in Doral’s public schools this year is 7,710 students. Also Miami-Dade College operates the School for Advanced Studies at its campus in west Doral.

*Table 12: Public School Capacity and Enrollment*

PUBLIC SCHOOL	PERMANENT CAPACITY	STUDENT ENROLLMENT	% CAPACITY
Eugenia B. Thomas K-8 Center	1,421	1,547	109%
John I. Smith K-8 Center	1,725	1,518	88%
Ronald Reagan/ Doral Senior High School 9-12	1,767	1,786	101%
Dr. Toni Bilbao Preparatory Academy K-8	675	727	108%
Dr. Rolando Espinosa K-8 Center	1,381	1,104	80%
J. C. Bermudez Doral Senior High School	1,147	300	26%
Andrea Castillo Preparatory Academy K-5	675	225	33%

Source: Miami-Dade County Public Schools, August 2020.

### 1. 5-Year Capacity Projects in Doral

Miami-Dade County Schools has four (4) school projects planned over the next five (5) years in the Doral area as listed below.

1. **J. C. Bermudez Doral SHS** - this is the conversion of the original Doral MS to a full high school. The existing classroom building was recently remodeled to add science laboratories for the high school curriculum. The facility has been repainted and new signage is being provided. A major capital project is in the planning stages for a phased expansion of the facility to include; the addition of a gymnasium, P.E. support spaces and the upgrading of the athletic fields. A subsequent phase will include a classroom addition of approximately 500 student stations to bring the capacity of the facility to approximately 1800 student stations.
2. **Dr. Toni Bilbao Preparatory Academy** - is being expanded for the grades 6-8 with the recent construction award of a new 450 student station classroom building.
3. **Andrea Castillo Preparatory Academy**- has been completed for the grades K-5 with a capacity of 750 student stations. The future expansion for grades 6-8 is in the planning phase. The opening of this new facility is expected to relieve the enrollment at other nearby K-8 schools.
4. **John I. Smith K-8**- has a project in the planning phase for the remodeling/renovation of the existing facility.

### 2. Charter and Private Schools

Doral is also home to 11 charter schools serving a total of 8,524 students in 2019 as shown in *Table 13* below.

*Table 13: Enrollment and Capacity for Charter Schools in Doral*

CHARTER SCHOOL	PERMANENT CAPACITY	STUDENT ENROLLMENT	% CAPACITY
Doral Academy K-5	2,200	1,030	47%
Doral Academy Charter Middle School 6-8	1,438	1,465	102%
Doral Academy Charter High School 9-12	---	1,800	---
Doral Academy of Technology K-8	300	300	100%
Doral International Academy K-8	---	886	---
Just Arts and Management CMS	600	231	39%
Renaissance Elementary K-5	---	909	---
Renaissance Middle Charter School 6-8	---	450	---
Downtown Doral Charter Elementary K-5	2,287	950	42%
Downtown Doral Charter Upper 6-12	---	100	---
Doral Performing Arts Academy 9-12	---	403	---

Source: Based on October 2018 % Utilization Report, Miami-Dade County Public Schools, July 2019.

Divine Savior Academy and Shelton Academy are private schools, both serving students in Doral.

*End of Section II*

### III. CAPITAL IMPROVEMENTS

The data and analysis presented herein shows level of service (LOS) needs in transportation, parks and recreation, and stormwater management. Tables 14 and 15 below show the projected 5-year revenues and planned project expenditures for capital improvements in the City. The proposed Schedule of Capital Improvements (SCI) in Table 16 (pages 32-34) is intended to address the maintenance and improvement of public facilities including transportation, stormwater/drainage and parks in FY 2021-2025.

*Table 14: Projected Revenues for Capacity-Related Projects by Funding Source*

FUNDING SOURCES	FY 2020/21 (in \$\$s)	FY 2021/22 (in \$\$s)	FY 2022/23 (in \$\$s)	FY 2023/24 (in \$\$s)	FY 2024/25 (in \$\$s)	5 YEAR TOTAL FY 2021-2025 (in \$\$s)
Parks & Recreation	133,600,000	5,400,000	0	0	0	139,000,000
Stormwater Fund	750,000	1,000,000	1,000,000	1,000,000	1,000,000	4,750,000
Park Impact Fee Fund	260,000	265,460	271,300	277,269	283,091	1,357,120
Transportation Fund	2,442,264	2,772,417	2,833,410	2,895,745	2,956,555	13,900,391
<b>TOTAL</b>	<b>137,052,264</b>	<b>9,437,877</b>	<b>4,104,710</b>	<b>4,173,014</b>	<b>4,239,646</b>	<b>159,007,511</b>

Source: City of Doral, August 2020.

*Table 15: Projected 5-Year Expenditures for Capital Improvements by Type*

Project Type	FY2020/21 (in \$\$s)	FY2021/22 (in \$\$s)	FY2022/23 (in \$\$s)	FY2023/24 (in \$\$s)	FY2024/2025 (in \$\$s)	5-YEAR TOTAL FY 2021-2025 (in \$\$s)
<b>City-Funded Projects</b>						
Parks	133,600,000	5,400,000	0	0	0	139,000,000
Stormwater / Drainage	1,586,200	1,500,000	650,000	1,500,000	1,975,000	7,211,200
Transportation	2,600,000	3,350,000	9,100,000*	8,450,000**	6,050,000	29,550,000
<b>Total</b>	<b>137,786,200</b>	<b>10,250,000</b>	<b>9,750,000</b>	<b>9,950,000</b>	<b>8,025,000</b>	<b>175,761,200</b>

\* FY 2022-2023, \$5 million to be transferred from General Fund.

\*\* FY 2023-2024, \$4 million to be transferred from General Fund.

Source: City of Doral, August 2020.

Revenue projections for capital projects (by type) to be funded by Doral are presented in Table 14. Table 165 summarizes the proposed expenditures for parks, stormwater/drainage and transportation based on the Schedule of Capital Improvements for FY 2021-2025 (Table 16).

An analysis of the projected revenues and planned capital expenditures indicate that overall City capital project costs will exceed revenues by \$16.8 million over the next five (5) years. The City is projected to accumulate \$159,007,511 over the 5-year planning period to fund the capital improvements needed to maintain and improve public facility LOS, and has identified a total of \$175,761,200 in capital improvement expenditures over the planning period.

Capital Improvements Element Update

Table 16. Doral's Schedule of Capital Improvements 2020/21 - 2024/25

PROJECTS/LOCATION	TYPE OF WORK	FY 2020-21 (in \$\$s)	FY 2021-22 (in \$\$s)	FY 2022-23 (in \$\$s)	FY 2023-24 (in \$\$s)	FY 2024-25 (in \$\$s)	TOTAL COST FY 2021-2025	FUNDING SOURCE
<b>TRANSPORTATION PROJECTS*</b>								
1. Citywide	City Sidewalks Phase 2	1,300,000	0	0	0	0	1,300,000	TF
2. Citywide	Traffic Monitoring Cameras	0	0	50,000	0	0	50,000	TF
3. Citywide	Roadway Maintenance	200,000	300,000	300,000	300,000	300,000	1,400,000	TF, PTP
4. Citywide	Traffic Calming Program	0	150,000	150,000	150,000	150,000	600,000	GF, TF
5. Citywide	Transit Mobility & Infrastructure	0	150,000	150,000	150,000	150,000	600,000	TF
6. Citywide	NW 102 Av Bike Path & City Sidewalks	0	0	0	0	1,650,000	1,650,000	FG, TF
7. Citywide	Intersection Improvements	100,000	150,000	150,000	150,000	150,000	700,000	TF
8. Citywide	Do Not Block Box Intersections	0	100,000	0	100,000	0	200,000	TF
9. NW 102 Av Widening	NW 102 Av & 62 St Intersection	0	0	0	700,000	0	700,000	TF
10. NW 90 St Roadway Improvements	Section 7 Vacant Land	0	0	0	0	250,000	250,000	TF
11. NW 99 Av – New Roadway	From 64 St to 66 St	0	0	0	800,000	0	800,000	TF
12. NW 112 Av & 114 Av Intersection Improvements	From NW 41 St to 58 St	0	500,000	500,000	0	0	1,000,000	TF
13. NW 114 Av Improvements	From NW 34 St to 39 St	0	0	0	2,000,000	0	2,000,000	TF
14. NW 34 St Roadway Improvements	From NW 117 Av to 112 Av	0	0	2,000,000	0	0	2,000,000	TF
15. NW 117 Av – New Roadway	From NW 58 St to North of Eugenia Thomas School	0	0	800,000	0	0	800,000	TF
16. NW 117 Av – New Roadway	From NW 25 St to 34 St	0	0	0	0	1,800,000	1,800,000	TF
17. NW 33 St Roadway Improvements	From NW 107 Av to 112 Av	0	2,000,000	0	0	0	2,000,000	TF
18. Turnpike Trail Bridge over Doral Blvd.	Doral Blvd. just east of Turnpike	1,000,000	0	0	0	0	1,000,000	TF
19. NW 112 Av – New Roadway	From NW 34 St to 41 St	0	0	0	4,000,000	0	4,000,000	TF
20. NW 112 Av – Land Acquisition for New Roadway	From NW 34 St to 41 St	0	0	5,000,000	0	0	5,000,000	GF

Capital Improvements Element Update

PROJECTS/LOCATION	TYPE OF WORK	FY 2020-21 (in \$\$s)	FY 2021-22 (in \$\$s)	FY 2022-23 (in \$\$s)	FY 2023-24 (in \$\$s)	FY 2024-25 (in \$\$s)	TOTAL COST FY 2021-2025	FUNDING SOURCE
21. New Roadway Connections on NW 82 Av & 84 Av	From NW 14 St to 21 St	0	0	0	100,000	0	100,000	TF
22. NW 33 St Roadway Improvements	From NW 79 Av to 82 Av	0	0	0	0	1,600,000	1,600,000	TF
<b>5 Year Transportation Cost Sub Total</b>		2,600,000	3,350,000	9,100,000	8,450,000	6,050,000	29,550,000	

<b>CITY PARKS PROJECTS**</b>								
1. Doral Central Park	Construct Park Facilities	115,000,000	0	0	0	0	115,000,000	Approved Parks Bond
2. Downtown Doral South	White Course Park	4,200,000	0	0	0	0	4,200,000	Approved Parks Bond
3. Adjacent to Downtown Doral Park	Downtown Doral Cultural Center	12,000,000	0	0	0	0	12,000,000	Approved Parks Bond
4. Trails & Tails Park	Improvements	1,100,000	0	0	0	0	1,100,000	Approved Parks Bond
5. Trails Network	Additional Trails	1,300,000	400,000	0	0	0	1,700,000	Approved Parks Bond
6. Pedestrian Bridge Over Doral Blvd. at Turnpike	Bridge Construction	0	5,000,000	0	0	0	5,000,000	Approved Parks Bond
<b>Parks Cost Subtotal</b>		133,600,000	5,400,000	0	0	0	139,000,000	
<b>CITY STORMWATER PROJECTS**</b>								
1. City Wide	Stormwater Drainage	1,586,200	1,500,000	650,000	1,500,000	1,975,000	7,211,200	SWF, SG
<b>Stormwater Cost Sub Total</b>		1,586,200	1,500,000	650,000	1,500,000	1,975,000	7,211,200	
<b>TOTAL CITY CAPITAL COST</b>		<b>137,786,200</b>	<b>10,250,000</b>	<b>9,750,000</b>	<b>9,950,000</b>	<b>8,025,000</b>	<b>175,761,200</b>	

\* Source: City of Doral Public Works Dept., August 2020.

\*\* Source: Public Works and Parks Depts., City of Doral, August 2020.

**Table Key:**

TF: Transportation Fund

SWF: Stormwater Fund

GF: General Fund

SG: State Appropriation for Stormwater Improvements

PTP: Peoples Transportation Fund (CITT)