

22 August 2025

Yadira Werley Lennar 730 NW 107th Avenue, 3rd Floor Miami, FL 33172

Re: Water and Sewer Master Plan

City Park

SW 136th Street and SW 162nd Avenue, Miami, Florida

Langan Project No.: 330090201

Dear Yadira:

The purpose of this letter is to describe the anticipated water and sewer demands and the anticipated improvements required for the proposed development program for the City Park (Development). The development is generally located south of the SW 136th Street and north of SW 152nd Street between SW 162nd Avenue to the east and Krome Avenue to the west. Refer to **FIG-01** for the Overall Location Plan. The area shown on the Overall Location Plan represents the proposed service area boundary.

The Development consist of five major development areas known as the Village Core, Central Park, East Village, South Village and West Village.

DEVELOPMENT PROGRAM

- Residential Units (Single Family, Townhomes, Apartments) 7,800
- Commercial Use 749,153 square feet (SF) Shopping Center Use
- Warehouse 892.484 SF
- Office 500,000 SF
- School 3.863 students

POTABLE WATER AND SEWER DEMAND

Based on the development program mentioned above, the development program's average daily demand for the project is 1,832,000 gallons per day (GPD) based on Miami-Dade County Schedule of Daily Rate Gallonage for Various Occupancy. A breakdown of the development programs demand per phase is provided in **Attachment A**. The project will be served by Miami-Dade Water and Sewer Department that will provide potable water and sanitary sewer treatment when the project is within the Urban Development Boundary (UDB).

NON-POTABLE WATER DEMAND

Non-potable water will be utilized for irrigation purposes throughout the development. The project's irrigation systems will adhere to Chapter 18A of the Miami-Dade Code which promotes the use of xeriscape principles, the use of moisture and rain sensor switches for irrigation and sets design standards for irrigation systems to not overthrow or overflow on to impervious surfaces. The anticipated non-potable water demand for irrigation is 1.281 Gallons Per Day based on the total anticipated pervious area, and Miami Dade County Chapter 18A-6(b) which recommends a maximum application rate of 1.5-inches of water per week.

ON-SITE WELLS

No on-site potable water wells are proposed. Any future irrigation wells will be permitted through Miami-Dade County DERM and the South Florida Water Management District (SFWMD) in accordance with the regulations at the time of permitting the on-site irrigation wells.

The proposed development should improve the project's area impact on the local aquifer compared to use of the existing wells.

OPERATION AND MAINTENANCE OF WATER AND SEWER SYSTEM

Miami Dade Water and Sewer Department will own and operate utilities providing water and sewer for the project. Portions of the non-potable irrigation system will be owned by the Homeowner's Association (HOA) or similar private entity.

CONSERVATION MEASURES

Reducing the overall potable water demand is component of the proposed development. The conservation devices and methods may include, but are not limited to low-flow plumbing fixtures listed in the Florida Building Code. In addition, during periods of severe water shortage, the project will adhere to the requirements of Chapter 24, Section 12.1(8) of the Miami-Dade Code and Chapter 40E-21 of the Florida Administrative Code. The project's landscaping will adhere to Chapter 18A of the Miami-Dade Code which promotes the use of xeriscape principles and the use of moisture and rain sensor switches for irrigation, and sets design standards for irrigation systems to not overthrow or overflow on to impervious surfaces.

SEPTIC SYSTEMS

No on-site sanitary sewer systems (septic systems) are proposed. Any existing septic systems onsite will be properly abandoned. Any future irrigation wells will be permitted through Miami-Dade County DERM and the South Florida Water Management District (SFWMD) in accordance with the regulations at the time of permitting the on-site irrigation wells.

PHASED PROPOSED IMPROVEMENTS

There are no existing water mains within the proposed development area. The proposed connection point to the existing water main infrastructure is located at the intersection of SW 136th Street and SW 162nd Avenue. There is an existing 16-inch water main located at this



SW 136th Street and SW 162nd Avenue, Miami, Florida Langan Project No.:

intersection (refer to WASD Atlas X22-D). We are proposing a connection to this water main at this location and to a water main in SW 152nd Street and SW 162nd Avenue (size to be confirmed). The proposed development shall connect to the existing infrastructure at the aforementioned locations and make the following extensions as described below.

- 1. Extend a 16-inch water main west within SW 136th Street from SW 162nd Avenue to Krome Avenue.
- 2. Extend a 16-inch water main north within SW 162nd Avenue between SW 136th Street and SW 152nd Street.
- 3. Extend a 16-inch water main within SW 152nd Street between SW 162nd Avenue to Krome Avenue.
- 4. Extend a 16-inch water main within SW 167th Avenue (theoretical) or its equivalent, between SW 136th Street and SW 152nd Street.
- 5. Extend 12-inch water main loops through the proposed development through the major roadways as shown on **FIG-02**.
- 6. Extend 8-inch or 12-inch water mains through the development in accordance with MDWASD requirements for residential/commercial/industrial land uses, as required.

There are no existing sanitary sewer main within the proposed development area. The proposed connection point to the existing sanitary sewer 36-inch sanitary sewer force main infrastructure is located at the intersection of SW 136th Street and SW 162nd Avenue (refer to WASD Atlas X22-D). We are proposing a connection to this sanitary sewer force main at this location. The proposed development shall connect to the existing infrastructure at the aforementioned locations and make the following extensions as described below.

- Spilt the proposed development into four separate sanitary sewer sheds. Refer to FIG-03 for the proposed sewer sheds.
- 2. Extend a 24-inch sanitary force main west within SW 136th Street to Krome Avenue.
- 3. Extend an 18-inch sanitary force main from Pump Station I to the 24-inch sanitary force main within SW 136th Street. (Sewershed I)
- 4. Extend an 18-inch sanitary force main from Pump Station II to the 24-inch sanitary force main within SW 136th Street. (Sewershed II)
- 5. Extend a 12-inch sanitary force main from Pump Station III to the 18-inch sanitary force main serving Sewershed II.
- 6. Extend a 12-inch sanitary force main from Pump Station IV to the 18-inch sanitary force main serving Sewershed I. (Sewershed IV)
- 7. Extend gravity sewer within the site development as needed. The maximum average daily flow from any one development is 482,699 gallons per day, which is within the maximum capacity of an 18-inch gravity sewer main at minimum slopes conditions. The remaining areas shall extend a minimum 8-inch gravity sewer as required to the proposed pump station.

PROPOSED IMPROVEMENTS CAPACITY ANALYSIS

Langan has completed a preliminary capacity analysis based on the proposed water and sewer improvements mentioned above. We analyzed the proposed water main extensions to confirm



SW 136th Street and SW 162nd Avenue, Miami, Florida Langan Project No.:

that they meet Miami-Dade County fire flow requirements (3,000 GPM) during peak flow conditions for the proposed development. We also confirmed the proposed sanitary sewer force main extension is within a reasonable flow rate for the proposed development. A summary of the analysis is provided below.

Water Main Improvements

Requirements

 Confirm the water main extension can provide the average daily flow requirements during a fire flow condition at the hydraulically distant point and meet minimum pressure requirements of 20 PSI during average daily flow conditions and with a 3,000 GPM fire flow condition.

Based on hydraulic analysis for the water main upgrades summarized in this memorandum the minimum pipe sizes are sufficient. A fire flow test is required to confirm the existing tie in pressures at the proposed points of connections.

Sanitary Sewer Improvements

Requirements

• Confirm the sanitary sewer force main extension can operate within a reasonable flow rate based on the projected demands.

Results (refer to Attachment C)

Per the attached sanitary sewer force main calculations, the proposed sanitary sewer force main will operate at a velocity slightly above the minimum of two feet per second (fps) in accordance with the 10 State Standards – Recommended Standards for Wastewater Facilities of two fps and 15 fps.

Potable Water and Wastewater Treatment Facility Capacity

The Development will be provided potable water by the Alexander Orr Water Treatment Plant (permitted capacity 214.74 million gallons per day (MGD)), and the South District Wastewater Treatment Plant (permitted capacity 112.5 MGD) will provide wastewater treatment. Based current data, there is approximately 15.6 MGD of capacity at average daily flow of wastewater treatment capacity and 35.32 MGD of capacity of potable water capacity. The projected demand of the project of 1.7 MGD is well within the capacity of the two treatment plants.



CONCLUSION

Based on the analysis described above the proposed water main extensions and sanitary sewer main extensions are sufficient to properly provide the development with potable water and sanitary sewer services.

This item has been digitally signed and sealed by Michael Carr, PE. on the date adjacent to the seal

Printed Copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



Sincerely,

Langan Engineering and Environmental Services, LLC.

Michael Carr, PE, LEED AP Associate Principal Florida Professional Engineer Lic. No. 72424

FIG-01 Overall Location Plan

FIG-02 Water Main Improvements

FIG-03 Sewer Improvements

Attachment A - Water and Sewer Demand

Attachment A – Water Sewer Atlas

Attachment B - WaterCAD Results

Attachment C - Sanitary Sewer Calculations

Attachment D - Miami-Dade County Schedule of Daily Rate Gallonage for Various Occupancy

CC:

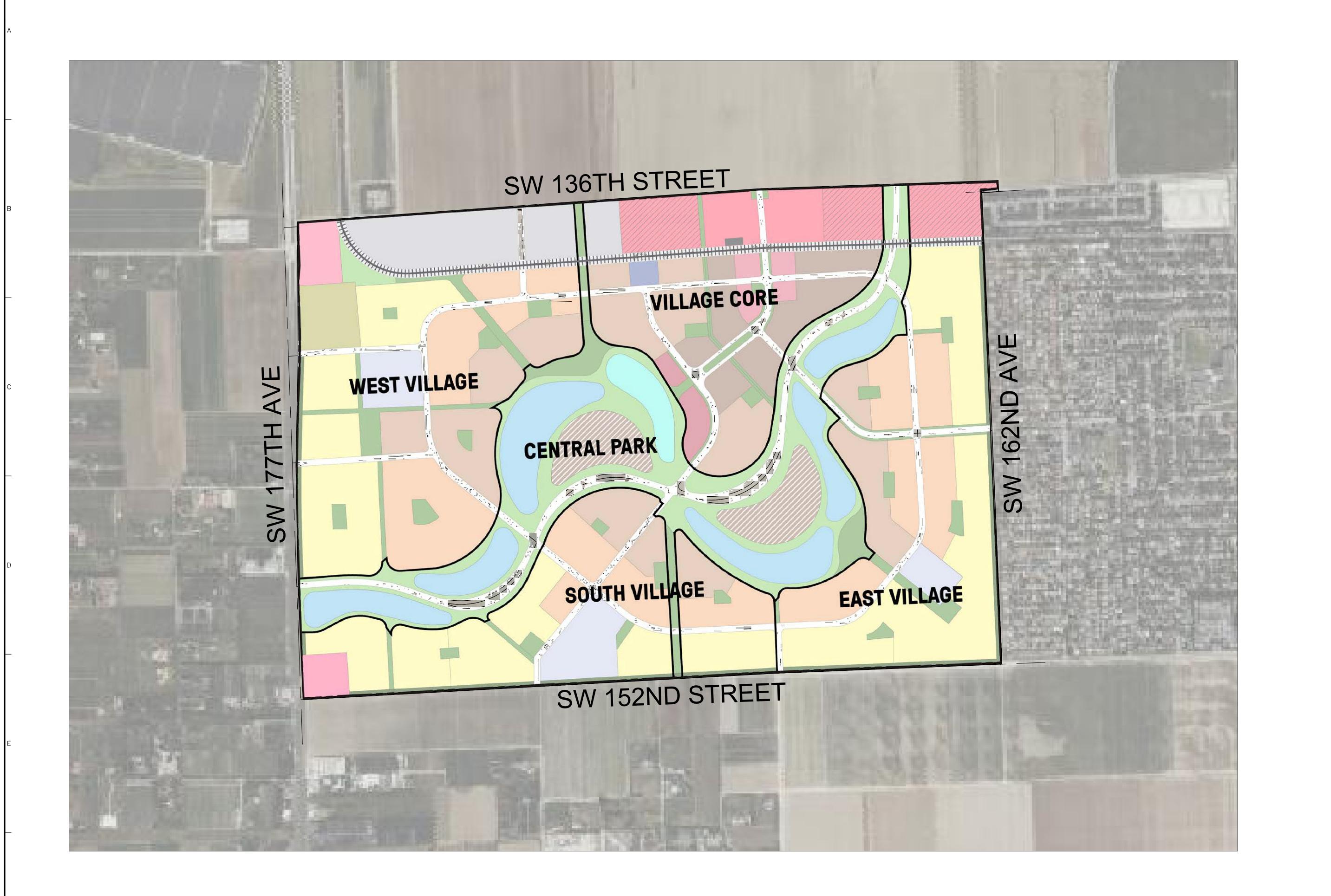
FBPE Registry No. 6601

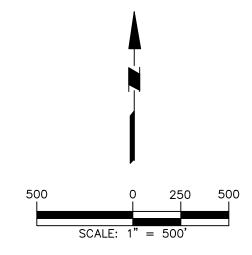
\\langan.com\\data\\FTL\\data2\\330090201\\Project Data_Discipline\Site Civil\Reports\\Water Sewer Report\2025-08-22 Draft Water and Sewer.docx



FIGURES

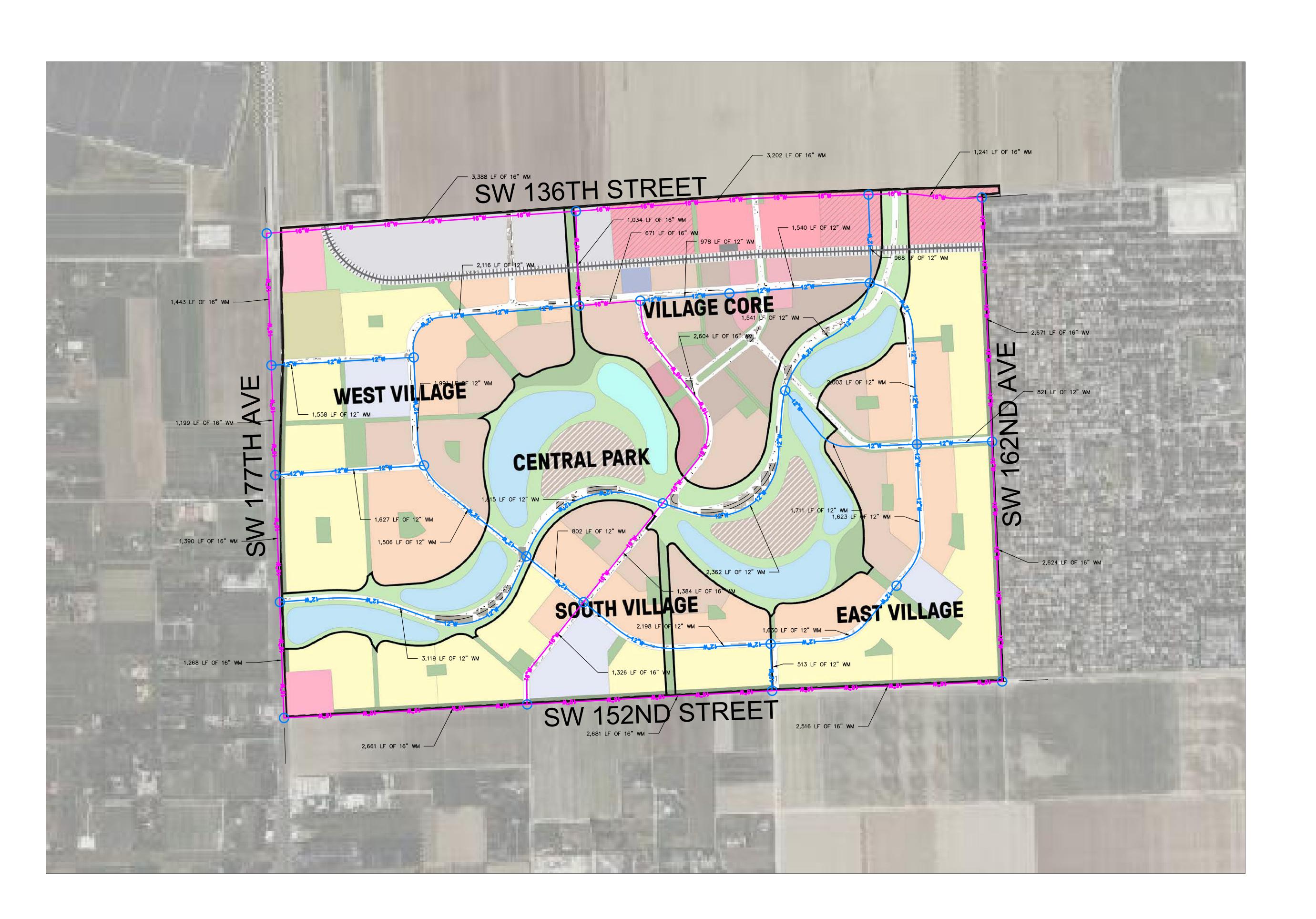


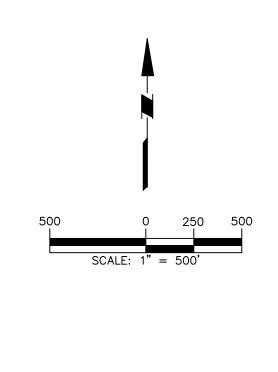




		• 1•					
Date		scription	No.				
	Revis	sions					
Signature	MICHAE	I CARR	Date				
PROFES		EER License No.724	24				
	AAI		<u> </u>				
	. — — .	GΑN					
	Langan Engi Environmental						
		www.langa	an.com				
Project							
	YTV	PARK					
		FANN					
Drawing Ti	tle						
	OVE	RAII					
LO	LOCATION PLAN						
Project No		Figure					
Project No 33	0090201	Figure					
Date							
D 5		FIG-0	1				
Drawn By							

Checked By





PROP 16" WATER MAIN

PROP 12" WATER MAIN

Date Description No.

Revisions

Signature Date

MICHAEL CARR
PROFESSIONAL ENGINEER License No.72424

Langan Engineering and
Environmental Services, Inc.

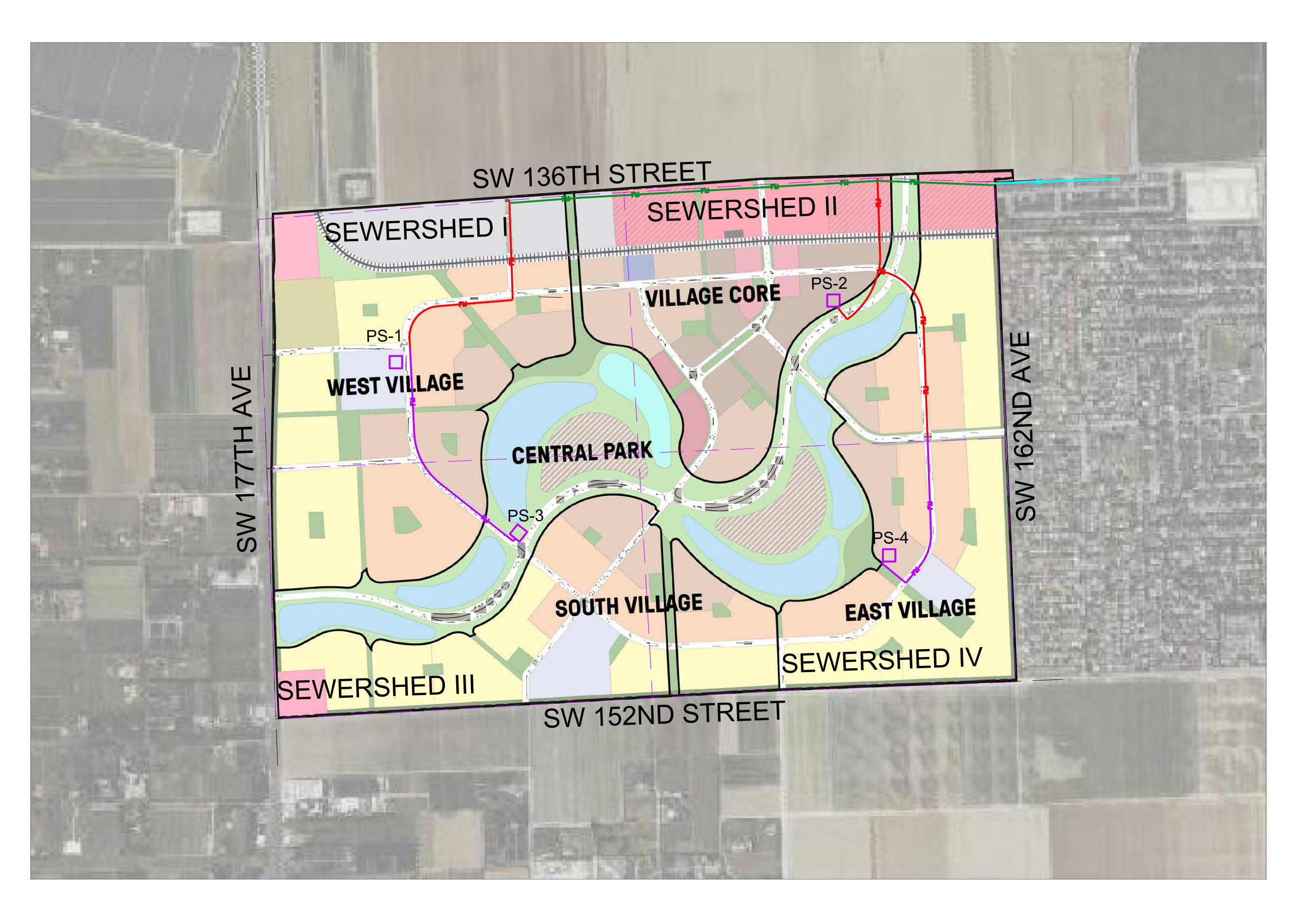
www.langan.com

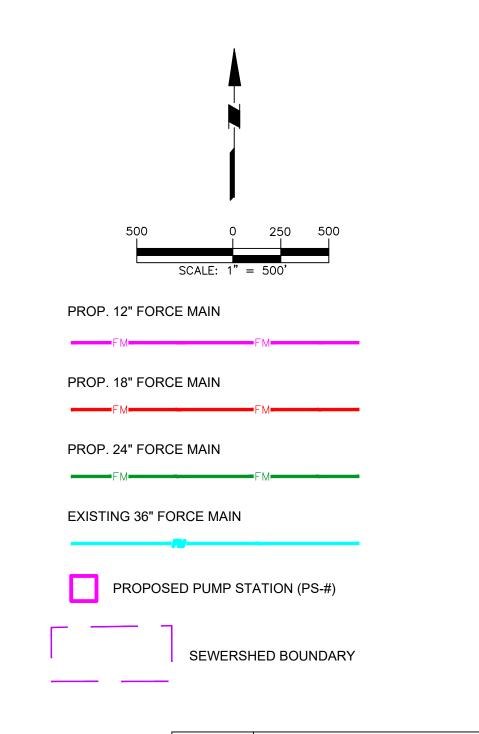
Projec

CITY PARK

Drawing Title

WATER MAIN IMPROVEMENTS





Date	Des	scription	No.				
	Revis	sions					
Signature	MOLIAE		Date				
MICHAEL CARR PROFESSIONAL ENGINEER License No.72424							
	AAI		A/				
	AN	UΑ					
	Langan Engi Environmental		C.				
		,					
		W\	ww.langan.com				
Project							
			1/				
	CITY	PAK	.K				
Drawing Ti	tle						
,, ag							
SEWER							
_							
IMPROVEMENTS							
Project No		Figure					
Oate	0090201						
		i					

FIG-03

Checked By

Attachment A - Water and Sewer Demand



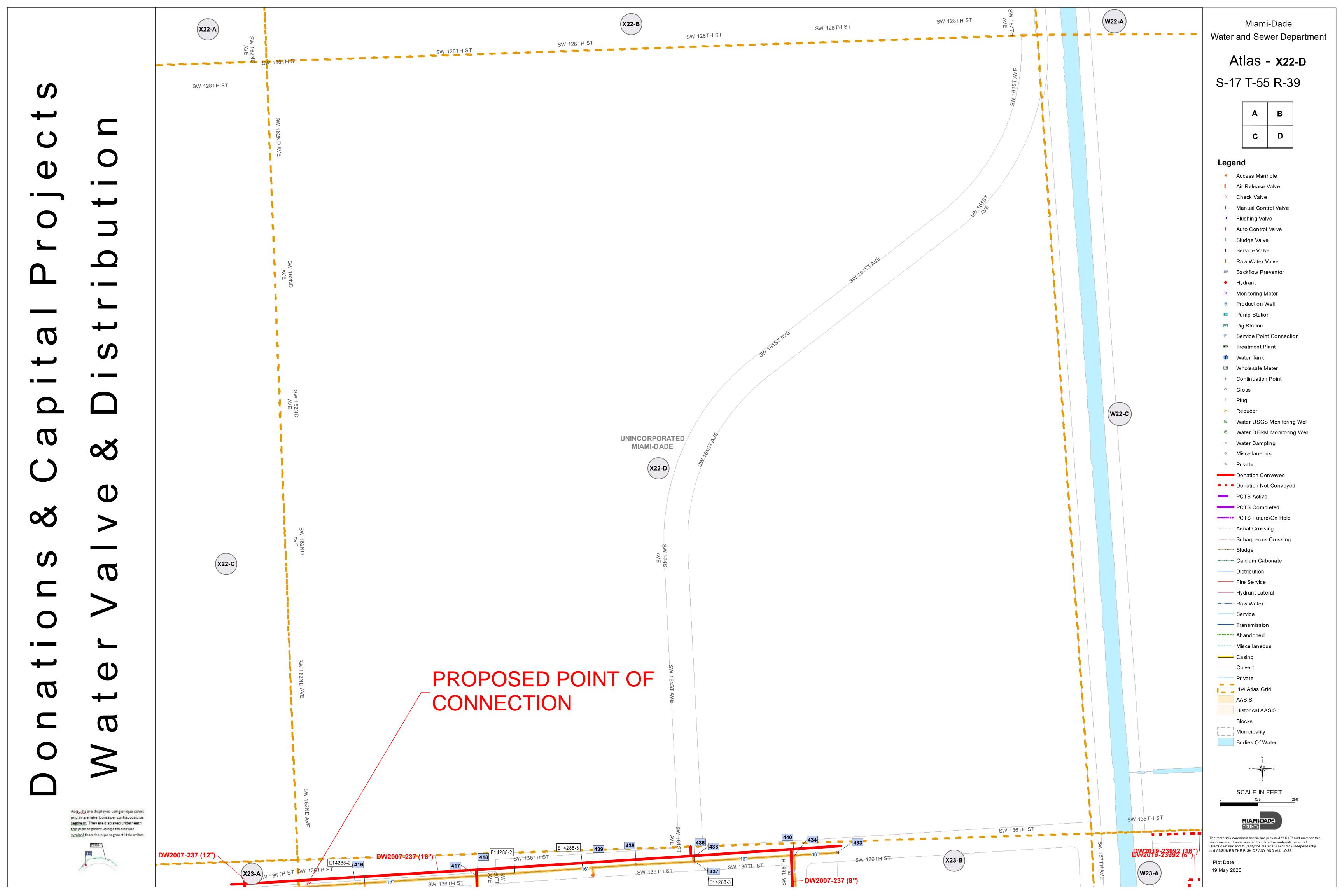
Land Use	Number	Water Use	Potable Water	Maximum	
Land use	of Units		Demand (MGD)(*)	Water Demand (MGD)	
Single Family, detached	2,827 du	310 gpd/unit	0.877	1.973	
Single Family, attached	2,734 du	165 gpd/unit	0.452	1.017	
Multi-Family	2,240 du	135 gpd/unit	0.303	0.682	
Retail	749,153 sf	5/100 gpd/sf	0.075	0.043	
Office	500,000 sf	5/100 gpd/sf	0.025	0.079	
Industrial – Flex Space	892,484 sf	2/100 gpd/sf	0.018	0.029	
School					
Students	3,863 stud.	20 gpd/stud	0.077	0.144	
Staff	360	15 gpd/person	0.005	0.011	
Total			1.832 MGD	4.007 MGD	

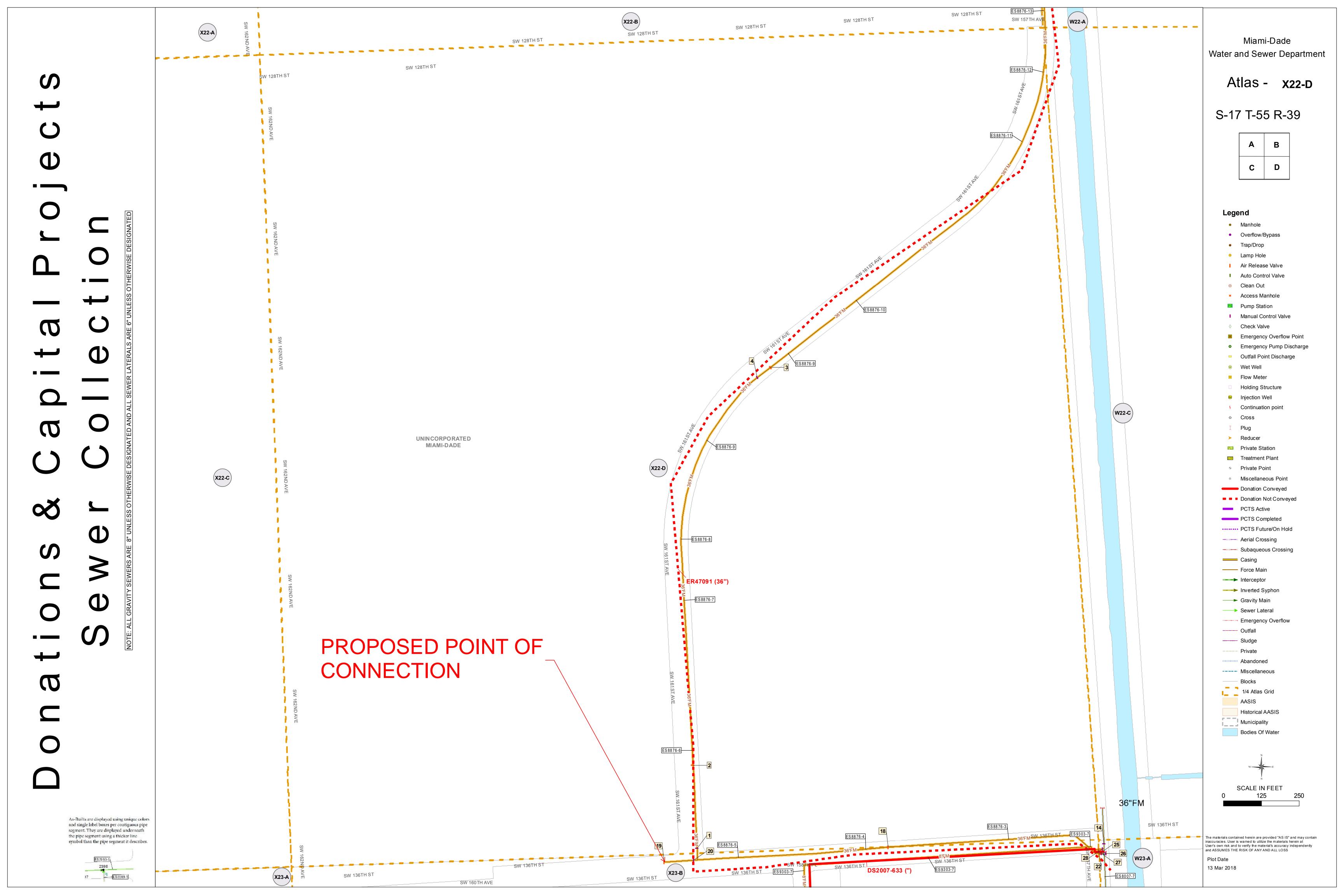
(*) MGD= Millions of Gallons per Day

Land Use	Number of Units	Sewage Loading (GPD/Unit)	Sewage Flows (MGD)(*)	Peak Sewage Flows (MGD)	
Single Family, detached	2,827 du	310 gpd/unit	0.877	2.4118	
Single Family, attached	2,734 du	165 gpd/unit	0.452	1.243	
Multi-Family	2,240 du	135 gpd/unit	0.303	0.8333	
Retail	749,153 sf	5/100 gpd/sf	0.075	0.206	
Office	500,000 sf	5/100 gpd/sf	0.025	0.0688	
Industrial – Flex Space	892,484 sf	2/100 gpd/sf	0.018	0.0491	
School				0	
	3,863 stud.	20 gpd/stud	0.077	0.2118	
Staff	360	15 gpd/person	0.005	0.0138	
Total			1.832 MGD	5.037 MGD	
(*) MGD= Millions of Gallons per Day					

Attachment B – Water and Sewer Atlases



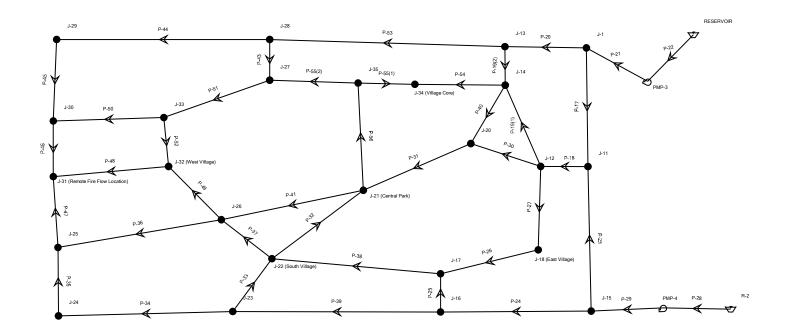




Attachment C – Hydraulic Analysis Results



Scenario: Base



FlexTable: Junction Table

ID	Label	Demand	Hydraulic Grade	Pressure						
		(gpm)	(ft)	(psi)						
30	J-1	0	136.73	59						
59	J-11	0	136.33	59						
61	J-12	0	133.47	58						
63	J-13	0	133.89	58						
70	J-14	0	132.78	57						
73	J-15	0	137.22	59						
75	J-16	0	132.90	57						
77	J-17	0	132.55	57						
79	J-18 (East Village)	306	132.63	57						
87	J-20	0	132.61	57						
88	J-21 (Central Park)	74	130.31	56						
89	J-22 (South Village)	234	130.32	56						
90	J-23	0	130.41	56						
91	J-24	0	128.97	56						
92	J-25	0	128.29	56						
99	J-26	0	129.54	56						
106	J-27	0	130.18	56						
108	J-28	0	130.34	56						
110	J-29	0	128.65	56						
112	J-30	0	127.93	55						
114	J-31 (Remote Fire Flow Location)	3,000	126.89	55						
117	J-32 (West Village)	335	128.05	55						
120	J-33	0	128.40	56						
125	J-34 (Village Core)	982	130.10	56						
128	J-35	0	130.19	56						

Attachment D – Sanitary Sewer Calculations



Overall Sanitary Force main Velocity Calculations

Pipe Diameter	24	inches
Peaking Factor	4	
Average Daily Flow Rate	1,720,117	GPD
Peak Flow Rate	4778.10	GPM
Velocity	3.39	fps

FM-1 Sanitary Force main Velocity Calculations

Pipe Diameter	18	inches
Peaking Factor	4	
Average Daily Flow Rate	872,362	GPD
Peak Flow Rate	2423.23	GPM
Velocity	3.05	fps

FM-2 Sanitary Force main Velocity Calculations

Pipe Diameter	18	inches
Peaking Factor	4	
Average Daily Flow Rate	847,754	GPD
Peak Flow Rate	2354.87	GPM
Velocity	2.97	fps

FM-3 Sanitary Force main Velocity Calculations

Pipe Diameter	12	inches
Peaking Factor	4	
Average Daily Flow Rate	467,720	GPD
Peak Flow Rate	1299.22	GPM
Velocity	3.69	fps

FM-4 Sanitary Force main Velocity Calculations

· · · · · · · · · · · · · · · · · · ·		
Pipe Diameter	12	inches
Peaking Factor	4	
Average Daily Flow Rate	363,055	GPD
Peak Flow Rate	1008.49	GPM
Velocity	2.86	fps



PROJECT RAMBO - ID 31055 GRAVITY SANITARY DESIGN JANUARY 2022

	N	ETWORK INFOR	RMATION				PIPE DATA					PR	OJECTED FLOW	INFORMATION			MAXIM	UM CAPACITY		SURPLUS/DEFICIT
Sub-	Sewershed	Netwo	ork Location	Line Size	Pipe	Manning's	Min. Slope	Max. Slope	Provided	Slope	Projected	Peak Factor	Projected	Minimum	Slope	Provided	Max.	Max.	Max.	Net
division	Number	Upstream	Downstream		Length	Coefficient	For Velocity of	Not to Exceed	Segment	Check	Flow	F	Flow	Slope Required	Check	Segment	Full Flow	Permitted	Permitted	Capacity
Area		Manhole	Manhole				2	10	Slope				with Peak	to carry the		Slope	Capacity	Capacity	Capacity	
							fps	fps velocity					Factor	projected flow				90%	90% of Full Flow	
				(in)	(feet)		(%)	(%)	(%)		(gal/day)		gal/day	(%)		(%)	(gal/day)	(cfs)	(gal/day)	(gal/day)
Sewer Shed																				
Basin	1.00	МН	Wet Well	18	50	0.013	0.12%	2.84%	0.12%	SLOPE IN RANGE	482,699	4.00	1,930,796	0.12%	Slope OK	0.12%	2,350,897	3.27	2,115,808	184,902

Attachment E – Miami-Dade County Schedule of Daily Rate Gallonage for Various Occupancy



EXHIBIT "B" OF AGREEMENT BETWEEN MIAMI-DADE COUNTY AND

SCHEDULE OF DAILY RATED GALLONAGE FOR VARIOUS OCCUPANCY

TYPES OF LAND USES

GALLONS PER DAY (GPD)

Single Family Residence	RESIDENTIAL LAND USES					
Townhouse Residence 165 gpd/unit (over 5,000 sq. ft.) Townhouse Residence 165 gpd/unit Apartment 135 gpd/unit Mobile Home Residence/Park 160 gpd/unit Duplex or Twin Home Residence 150 gpd/unit Pouplex or Twin Home Residence 150 gpd/unit Residential Facility/Institution: a) Congregate Living Facility (CLF) 75 gpd/bed 100 gpd/unit 100 gpd/unit 100 gpd/unit 100 gpd/unit 100 gpd/unit 100 gpd/unit 100 gpd/person 100 gpd/perso		210 gpd/unit (under 3,001 sq. ft.)				
Townhouse Residence	Single Family Residence	310 gpd/unit (3,001-5,000 sq. ft.)				
Apartment 135 gpd/unit		510 gpd/unit (over 5,000 sq. ft.)				
Mobile Home Residence/Park Duplex or Twin Home Residence Residential Facility/Institution: a) Congregate Living Facility (CLF) b) Apartment Dormitory c) Fire Station d) Jail e) Other COMMERCIAL LAND USES Airport: a) Common Area/Concourse/Retail b) Food Service Bank Banquet Hall (with or without kitchen Bar, Cocktail Lounge, Nightclub, or Adult Entertainment Barber Shop Beauty Shop Big Box Retail Bowling Alley Car Wash: a) Manual Washing b) Automated Washing Country Club with or without kitchen Dentist's Office Country Club with or without kitchen Dentist's Office Station/Convenience Store/Mini-Mart: a) Without car wash Additional single automated car wash Additional single automated car wash Additional single automated car wash 1.750 gpd/unit 1.50 gpd/bay 1.00 gpd/louti 1.50 gpd/louti 1.50 gpd/lous q. ft. 1.50 gpd/lou sq. ft. 1.50 gpd/lous q. ft. 1.50 gpd/lous q. ft. 1.750 gpd/lous q. ft. 1.750 gpd/unit	Townhouse Residence	165 gpd/unit				
Duplex or Twin Home Residence Residential Facility/Institution: a) Congregate Living Facility (CLF) b) Apartment Dormitory c) Fire Station d) Jail e) Other COMMERCIAL LAND USES Airport: a) Common Area/Concourse/Retail b) Food Service Bank 10 gpd/100 sq. ft. b) Food Service see restaurant use for allocation Bank 10 gpd/100 sq. ft. Banquet Hall (with or without kitchen Bar, Cocktail Lounge, Nightclub, or Adult Entertainment Barber Shop Beauty Shop 25 gpd/100 sq. ft. Big Box Retail Bowling Alley Car Wash: a) Manual Washing b) Automated Washing Coin Laundry Coin Laundry Country Club with or without kitchen Dentist's Office Dentist's Office Gas Station/Convenience Store/Mini-Mart: a) Without car wash Without car wash Additional single automated car wash Additional single automated car wash Log pgd/lob d 1,300 gpd/lonit	Apartment	135 gpd/unit				
Residential Facility/Institution: a) Congregate Living Facility (CLF) b) Apartment Dormitory c) Fire Station d) Jail d) Jail e) Other 100 gpd/100 sq. ft. 150 gpd/person e) Other 100 gpd/person COMMERCIAL LAND USES Airport: a) Common Area/Concourse/Retail b) Food Service see restaurant use for allocation Bank 10 gpd/100 sq. ft. Banquet Hall (with or without kitchen 10 gpd/100 sq. ft. Bar, Cocktail Lounge, Nightclub, or Adult Entertainment 20 gpd/100 sq. ft. Barber Shop 10 gpd/100 sq. ft. Beauty Shop 25 gpd/100 sq. ft. Big Box Retail 2.5 gpd/100 sq. ft. Bowling Alley Car Wash: a) Manual Washing 350 gpd/bay b) Automated Washing 5,500 gpd/bay Coin Laundry 110 gpd/100 sq. ft. Dentist's Office 20 gpd/100 sq. ft. Fitness Center or Gym 10 gpd/100 sq. ft. Fitness Center or Gym 10 gpd/100 sq. ft. Funeral Home 5 gpd/100 sq. ft. Gas Station/Convenience Store/Mini-Mart: a) Without car wash 450d/unit b) With single automated car wash 1,750 gpd/bed	Mobile Home Residence/Park	160 gpd/unit				
a) Congregate Living Facility (CLF) b) Apartment Dormitory c) Fire Station d) Jail e) Other 150 gpd/person e) Other 100 gpd/person COMMERCIAL LAND USES Airport: a) Common Area/Concourse/Retail 10 gpd/100 sq. ft. b) Food Service 10 gpd/100 sq. ft. see restaurant use for allocation Bank 10 gpd/100 sq. ft. Banquet Hall (with or without kitchen 10 gpd/100 sq. ft. Barber Shop 10 gpd/100 sq. ft. Beauty Shop 25 gpd/100 sq. ft. Beauty Shop 25 gpd/100 sq. ft. Big Box Retail 2.5 gpd/100 sq. ft. Bowling Alley 25 gpd/100 sq. ft. Bowling Alley 26 gpd/lou sq. ft. 27 gpd/lou sq. ft. Bowling Alley 27 gpd/lou sq. ft. 28 gpd/lou sq. ft. 29 gpd/lou sq. ft. 29 gpd/lou sq. ft. 20 gpd/lou sq. ft. 20 gpd/lou sq. ft. Fitness Center or Gym 10 gpd/100 sq. ft. Fitness Center or Gym 10 gpd/100 sq. ft. Funeral Home 5 gpd/100 sq. ft. Funeral Home 5 gpd/100 sq. ft. Funeral Home 5 gpd/lou sq. ft. Funeral Home 5 gpd/lou sq. ft. Funeral Home 5 gpd/lou sq. ft. Funeral Home 10 gpd/lou sq. ft. Funeral Home 11 gpd/lou sq. ft. Funeral Home 12 gpd/lou sq. ft. Funeral Home 13 gpd/lou sq. ft. Funeral Home 14 gpd/lou sq. ft. Funeral Home 15 gpd/lou sq. ft. Funeral Home 16 gpd/lou sq. ft. Funeral Home 17 gpd/lou sq. ft. Funeral Home 18 gpd/lou sq. ft. Funeral Home 19 gpd/lou sq. ft. Funeral Home 19 gpd/lou sq. ft. Funeral Home 10 gpd/lou sq. ft. Funeral Home 10 gpd/lou sq. ft. Funeral Home 11 gpd/lou sq. ft. Funeral Home 12 gpd/lou sq. ft. Funeral Home 13 gpd/lou sq. ft. Funeral Home 14 gpd/lou sq. ft. Funeral Home 15 gpd/lou sq. ft. Funeral Home 16 gpd/lou sq. ft. Funeral Home 17 gpd/lou sq. ft. Funeral Home 18 gpd/lou sq. ft. Funeral Home 19 gpd/lou sq. ft. Funeral Home 10 gpd/lou sq. ft. Funeral Home 10 gpd/lou sq. ft. Funeral H	Duplex or Twin Home Residence	150 gpd/unit				
b) Apartment Dormitory c) Fire Station d) Jail e) Other Other COMMERCIAL LAND USES Airport: a) Common Area/Concourse/Retail b) Food Service Bank 10 gpd/100 sq. ft. b) Food Service see restaurant use for allocation Bank 10 gpd/100 sq. ft. Banquet Hall (with or without kitchen 10 gpd/100 sq. ft. Bar, Cocktail Lounge, Nightclub, or Adult Entertainment 20 gpd/100 sq. ft. Baeauty Shop 25 gpd/100 sq. ft. Big Box Retail 2.5 gpd/100 sq. ft. Bowling Alley 100 gpd/lane Car Wash: a) Manual Washing 5,500 gpd/bay b) Automated Washing 5,500 gpd/bay Coin Laundry Country Club with or without kitchen 20 gpd/100 sq. ft. Pentist's Office 20 gpd/100 sq. ft. Fitness Center or Gym 10 gpd/100 sq. ft. Fitness Center or Gym 10 gpd/100 sq. ft. Fitnesa Station/Convenience Store/Mini-Mart: a) Without car wash b) With single automated car wash 1,750 gpd/unit Additional single automated car wash 1,300 gpd/unit Hospital	Residential Facility/Institution:	<u>.</u>				
c) Fire Station d) Jail e) Other 150 gpd/person e) Other 150 gpd/person 100 gpd/loo sq. ft. b) Food Service 10 gpd/loo sq. ft. 10 gpd/loo sq	a) Congregate Living Facility (CLF)	75 gpd/bed				
d) Jail e) Other 150 gpd/person 100 gpd/100 sq. ft. b) Food Service see restaurant use for allocation Bank 10 gpd/100 sq. ft. 10 gpd/lane 100 gpd/lan	b) Apartment Dormitory					
e) Other COMMERCIAL LAND USES Airport: a) Common Area/Concourse/Retail b) Food Service see restaurant use for allocation Bank 10 gpd/100 sq. ft. Banquet Hall (with or without kitchen 10 gpd/100 sq. ft. Bar, Cocktail Lounge, Nightclub, or Adult Entertainment 20 gpd/100 sq. ft. Barber Shop 10 gpd/100 sq. ft. Beauty Shop 25 gpd/100 sq. ft. Big Box Retail 2.5 gpd/100 sq. ft. Bowling Alley Car Wash: a) Manual Washing 5,500 gpd/bay b) Automated Washing Coin Laundry 110 gpd/100 sq. ft. Dentist's Office 20 gpd/100 sq. ft. Fitness Center or Gym 10 gpd/100 sq. ft. Fitneral Home 5 gpd/100 sq. ft. Funeral Home 5 gpd/100 sq. ft.	c) Fire Station	10 gpd/100 sq. ft.				
Airport: a) Common Area/Concourse/Retail b) Food Service see restaurant use for allocation Bank 10 gpd/100 sq. ft. Banquet Hall (with or without kitchen 10 gpd/100 sq. ft. Bar, Cocktail Lounge, Nightclub, or Adult Entertainment 20 gpd/100 sq. ft. Barber Shop 10 gpd/100 sq. ft. Beauty Shop 25 gpd/100 sq. ft. Big Box Retail 2.5 gpd/100 sq. ft. Bowling Alley 100 gpd/lane Car Wash: a) Manual Washing 5,500 gpd/bay b) Automated Washing 5,500 gpd/bay Coin Laundry 110 gpd/100 sq. ft. Dentist's Office 20 gpd/100 sq. ft. Fitness Center or Gym 10 gpd/100 sq. ft. Funeral Home 5 gpd/100 sq. ft. Funeral Home 5 gpd/100 sq. ft. Gas Station/Convenience Store/Mini-Mart: a) Without car wash b) With single automated car wash 1,750 gpd/unit Additional single automated car wash 1,300 gpd/unit Hospital	d) Jail	150 gpd/person				
Airport: a) Common Area/Concourse/Retail b) Food Service see restaurant use for allocation Bank 10 gpd/100 sq. ft. Banquet Hall (with or without kitchen 10 gpd/100 sq. ft. Bar, Cocktail Lounge, Nightclub, or Adult Entertainment 20 gpd/100 sq. ft. Barber Shop 10 gpd/100 sq. ft. Beauty Shop 25 gpd/100 sq. ft. Big Box Retail 2.5 gpd/100 sq. ft. Bowling Alley 100 gpd/lane Car Wash: a) Manual Washing 5,500 gpd/bay b) Automated Washing 5,500 gpd/bay Coin Laundry 110 gpd/100 sq. ft. Dentist's Office 20 gpd/100 sq. ft. Fitness Center or Gym 10 gpd/100 sq. ft. Fitneral Home 5 gpd/100 sq. ft. Gas Station/Convenience Store/Mini-Mart: a) Without car wash 450d/unit b) With single automated car wash 1,750 gpd/unit Additional single automated car wash 1,300 gpd/unit Hospital	e) Other	100 gpd/person				
a) Common Area/Concourse/Retail b) Food Service see restaurant use for allocation Bank 10 gpd/100 sq. ft. Banquet Hall (with or without kitchen 10 gpd/100 sq. ft. Bar, Cocktail Lounge, Nightclub, or Adult Entertainment 20 gpd/100 sq. ft. Barber Shop 10 gpd/100 sq. ft. Beauty Shop 25 gpd/100 sq. ft. Big Box Retail 2.5 gpd/100 sq. ft. Bowling Alley 100 gpd/lane Car Wash: a) Manual Washing 350 gpd/bay b) Automated Washing 5,500 gpd/bay Coin Laundry 110 gpd/100 sq. ft. Dentist's Office 20 gpd/100 sq. ft. Fitness Center or Gym 10 gpd/100 sq. ft. Funeral Home 5 gpd/100 sq. ft. Gas Station/Convenience Store/Mini-Mart: a) Without car wash 450d/unit b) With single automated car wash 1,750 gpd/bed	COMMERCIAL LAND USES					
b) Food Service Bank 10 gpd/100 sq. ft. Banquet Hall (with or without kitchen Bar, Cocktail Lounge, Nightclub, or Adult Entertainment Barber Shop 10 gpd/100 sq. ft. Barber Shop 10 gpd/100 sq. ft. Beauty Shop 25 gpd/100 sq. ft. Big Box Retail 2.5 gpd/100 sq. ft. Bowling Alley Car Wash: a) Manual Washing b) Automated Washing Coin Laundry Country Club with or without kitchen Dentist's Office 20 gpd/100 sq. ft. Fitness Center or Gym Fitness Center or Gym Gas Station/Convenience Store/Mini-Mart: a) Without car wash Additional single automated car wash Hospital	· •					
Bank 10 gpd/100 sq. ft. Banquet Hall (with or without kitchen 10 gpd/100 sq. ft. Bar, Cocktail Lounge, Nightclub, or Adult Entertainment 20 gpd/100 sq. ft. Barber Shop 10 gpd/100 sq. ft. Beauty Shop 25 gpd/100 sq. ft. Big Box Retail 2.5 gpd/100 sq. ft. Bowling Alley 100 gpd/lane 100 gpd/lan	1					
Banquet Hall (with or without kitchen Bar, Cocktail Lounge, Nightclub, or Adult Entertainment Barber Shop 10 gpd/100 sq. ft. Beauty Shop 25 gpd/100 sq. ft. Big Box Retail 2.5 gpd/100 sq. ft. Bowling Alley Car Wash: a) Manual Washing 5,500 gpd/bay b) Automated Washing Coin Laundry Country Club with or without kitchen Dentist's Office 20 gpd/100 sq. ft. Fitness Center or Gym 10 gpd/100 sq. ft. Funeral Home 5 gpd/100 sq. ft. Funeral Home 5 gpd/100 sq. ft. Gas Station/Convenience Store/Mini-Mart: a) Without car wash 450d/unit b) With single automated car wash 1,300 gpd/bed	,					
Bar, Cocktail Lounge, Nightclub, or Adult Entertainment Barber Shop 10 gpd/100 sq. ft. Beauty Shop 25 gpd/100 sq. ft. Big Box Retail 2.5 gpd/100 sq. ft. Bowling Alley 100 gpd/lane Car Wash: a) Manual Washing 5,500 gpd/bay b) Automated Washing Coin Laundry 110 gpd/washer Country Club with or without kitchen 20 gpd/100 sq. ft. Dentist's Office 20 gpd/100 sq. ft. Fitness Center or Gym 10 gpd/100 sq. ft. Funeral Home 5 gpd/100 sq. ft. Gas Station/Convenience Store/Mini-Mart: a) Without car wash 450d/unit b) With single automated car wash 1,750 gpd/unit Additional single automated car wash 1,300 gpd/unit Hospital						
Barber Shop 10 gpd/100 sq. ft. Beauty Shop 25 gpd/100 sq. ft. Big Box Retail 2.5 gpd/100 sq. ft. Bowling Alley 100 gpd/lane Car Wash: a) Manual Washing 350 gpd/bay b) Automated Washing 5,500 gpd/bay Coin Laundry 110 gpd/washer Country Club with or without kitchen 20 gpd/100 sq. ft. Dentist's Office 20 gpd/100 sq. ft. Fitness Center or Gym 10 gpd/100 sq. ft. Funeral Home 5 gpd/100 sq. ft. Gas Station/Convenience Store/Mini-Mart: a) Without car wash 450d/unit b) With single automated car wash 1,750 gpd/unit Additional single automated car wash 1,300 gpd/unit Hospital 250 gpd/bed	Banquet Hall (with or without kitchen	10 gpd/100 sq. ft.				
Beauty Shop 25 gpd/100 sq. ft. Big Box Retail 2.5 gpd/100 sq. ft. Bowling Alley 100 gpd/lane Car Wash: a) Manual Washing 350 gpd/bay b) Automated Washing 5,500 gpd/bay Coin Laundry 110 gpd/washer Country Club with or without kitchen 20 gpd/100 sq. ft. Dentist's Office 20 gpd/100 sq. ft. Fitness Center or Gym 10 gpd/100 sq. ft. Funeral Home 5 gpd/100 sq. ft. Gas Station/Convenience Store/Mini-Mart: a) Without car wash 450d/unit b) With single automated car wash 1,750 gpd/unit Additional single automated car wash 1,300 gpd/unit Hospital 250 gpd/bed	Bar, Cocktail Lounge, Nightclub, or Adult Entertainment					
Big Box Retail Bowling Alley Car Wash: a) Manual Washing b) Automated Washing Coin Laundry Country Club with or without kitchen Dentist's Office Fitness Center or Gym Funeral Home Gas Station/Convenience Store/Mini-Mart: a) Without car wash b) With single automated car wash Additional single automated car wash Hospital 2.5 gpd/100 sq. ft. 2.5 gpd/100 sq. ft. 2.5 gpd/100 sq. ft. 450d/unit 1,750 gpd/unit 1,300 gpd/unit 1,300 gpd/bed	Barber Shop	10 gpd/100 sq. ft.				
Bowling Alley Car Wash: a) Manual Washing b) Automated Washing Coin Laundry Coin Laundry Country Club with or without kitchen Dentist's Office Dentist's Office Fitness Center or Gym 10 gpd/100 sq. ft. Funeral Home S gpd/100 sq. ft. Gas Station/Convenience Store/Mini-Mart: a) Without car wash b) With single automated car wash Additional single automated car wash Hospital 100 gpd/lane 1100 gpd/lbay 110 gpd/washer 220 gpd/100 sq. ft. 10 gpd/100 sq. ft. 110 gpd/100 sq. ft. 110 gpd/100 sq. ft. 111 gpd/100 sq. ft. 111 gpd/100 sq. ft. 112 gpd/100 sq. ft. 113 gpd/100 sq. ft. 113 gpd/100 sq. ft. 114 gpd/100 sq. ft. 115 gpd/100 sq. ft. 116 gpd/100 sq. ft. 117 gpd/100 sq. ft. 117 gpd/100 sq. ft. 117 gpd/100 sq. ft. 118 gpd/100 sq. ft. 119 gpd/100 sq. ft. 120 gpd/1	Beauty Shop	25 gpd/100 sq. ft.				
Car Wash: a) Manual Washing b) Automated Washing Coin Laundry Country Club with or without kitchen Dentist's Office Fitness Center or Gym Funeral Home Gas Station/Convenience Store/Mini-Mart: a) Without car wash b) With single automated car wash Additional single automated car wash Hospital 350 gpd/bay 350 gpd/bay 5,500 gpd/bay 5,500 gpd/bay 110 gpd/u0 sq. ft. 20 gpd/100 sq. ft. 5 gpd/100 sq. ft. 450d/unit 1,750 gpd/unit 1,300 gpd/unit 250 gpd/bed	Big Box Retail	2.5 gpd/100 sq. ft.				
a) Manual Washing b) Automated Washing 5,500 gpd/bay Coin Laundry 110 gpd/washer Country Club with or without kitchen 20 gpd/100 sq. ft. Dentist's Office 20 gpd/100 sq. ft. Fitness Center or Gym 10 gpd/100 sq. ft. Funeral Home 5 gpd/100 sq. ft. Gas Station/Convenience Store/Mini-Mart: a) Without car wash 450d/unit b) With single automated car wash 1,750 gpd/unit Additional single automated car wash 1,300 gpd/unit Hospital	Bowling Alley	100 gpd/lane				
b) Automated Washing Coin Laundry 110 gpd/washer Country Club with or without kitchen Dentist's Office 20 gpd/100 sq. ft. Fitness Center or Gym 10 gpd/100 sq. ft. Funeral Home 5 gpd/100 sq. ft. Gas Station/Convenience Store/Mini-Mart: a) Without car wash 450d/unit b) With single automated car wash Additional single automated car wash 1,300 gpd/unit Hospital	Car Wash:					
Coin Laundry Country Club with or without kitchen Dentist's Office Dentist's Office Fitness Center or Gym 10 gpd/100 sq. ft. Funeral Home 5 gpd/100 sq. ft. Gas Station/Convenience Store/Mini-Mart: a) Without car wash 450d/unit b) With single automated car wash Additional single automated car wash 1,750 gpd/unit Hospital 250 gpd/bed		350 gpd/bay				
Country Club with or without kitchen20 gpd/100 sq. ft.Dentist's Office20 gpd/100 sq. ft.Fitness Center or Gym10 gpd/100 sq. ft.Funeral Home5 gpd/100 sq. ft.Gas Station/Convenience Store/Mini-Mart: a) Without car wash450d/unitb) With single automated car wash1,750 gpd/unitAdditional single automated car wash1,300 gpd/unitHospital250 gpd/bed	b) Automated Washing					
Dentist's Office 20 gpd/100 sq. ft. Fitness Center or Gym 10 gpd/100 sq. ft. Funeral Home 5 gpd/100 sq. ft. Gas Station/Convenience Store/Mini-Mart: a) Without car wash 450d/unit b) With single automated car wash 1,750 gpd/unit Additional single automated car wash 1,300 gpd/unit Hospital 250 gpd/bed	Coin Laundry	110 gpd/washer				
Fitness Center or Gym Funeral Home Gas Station/Convenience Store/Mini-Mart: a) Without car wash b) With single automated car wash Additional single automated car wash Hospital 10 gpd/100 sq. ft. 5 gpd/100 sq. ft. 450d/unit 450d/unit 1,750 gpd/unit 1,300 gpd/unit 250 gpd/bed	Country Club with or without kitchen	20 gpd/100 sq. ft.				
Funeral Home 5 gpd/100 sq. ft. Gas Station/Convenience Store/Mini-Mart: a) Without car wash 450d/unit b) With single automated car wash 1,750 gpd/unit Additional single automated car wash 1,300 gpd/unit Hospital 250 gpd/bed	Dentist's Office	20 gpd/100 sq. ft.				
Gas Station/Convenience Store/Mini-Mart: a) Without car wash b) With single automated car wash Additional single automated car wash Hospital 450d/unit 1,750 gpd/unit 1,300 gpd/unit 250 gpd/bed	Fitness Center or Gym	10 gpd/100 sq. ft.				
a) Without car wash b) With single automated car wash Additional single automated car wash Hospital 450d/unit 1,750 gpd/unit 1,300 gpd/unit 250 gpd/bed	Funeral Home	5 gpd/100 sq. ft.				
b) With single automated car wash Additional single automated car wash Hospital 1,750 gpd/unit 1,300 gpd/unit 250 gpd/bed	Gas Station/Convenience Store/Mini-Mart:					
Additional single automated car wash 1,300 gpd/unit Hospital 250 gpd/bed	a) Without car wash					
Hospital 250 gpd/bed	b) With single automated car wash	1,750 gpd/unit				
Hospital 250 gpd/bed	Additional single automated car wash	1,300 gpd/unit				
Hotel or Motel 115 gpd/room	Hospital	250 gpd/bed				
	Hotel or Motel	115 gpd/room				

TYPES OF COMMERCIAL LAND USES (CONTINUED)	
House of Worship	10 gpd/100 sq. ft.
Industrial use NOT discharging a process wastewater and NOT utilizing potable water for an industrial process (including but not limited to automotive repair, boat repair, carpentry, factory, machine shop, welding	4 gpd/100 sq. ft.
Industrial use discharging a process wastewater or utilizing potable water for an industrial process based on system design and evaluation by the Department	4 gpd/100 sq. ft.
Kennel	15 gpd/100 sq. ft.
Marina	60 gpd/slip
Nail Salon	30 gpd/100 sq. ft.
Nursing/Convalescent Home	125 gpd/bed
Office Building	5 gpd/100 sq. ft.
Pet Grooming	20 gpd/100 sq. ft.
Physician's Office	20 gpd/100 sq. ft.
Public Park:	
a) With toilets only	5 gpd/person
b) With toilets and showers	20 gpd/person
Public Swimming Pool Facility	30 gpd/person
Recreational Vehicle (RV) Park (seasonal use)	150 gpd/space
Restaurant	
a) Fast Food	65 gpd/100 sq. ft.
b) Full Service	100 gpd/100 sq. ft.
c) Take-Out	100 gpd/100 sq. ft.
Retail	10 gpd/100 sq. ft.
School:	-
a) Day care/Nursery (adults and children)	10 gpd/100 sq. ft.
b) Regular school	12 gpd/100 sq. ft.
Self-service storage units	1.5 gpd/100 sq. ft.
Shopping Center/Mall Shell/Common Area	10 gpd/100 sq. ft.
Spa	20 gpd/100 sq. ft.
Sporting Facilities and Auditorium	3 gpd/seat
Theater	
a) Indoor	1 gpd/seat
b) Outdoor/Drive-in	5 gpd/space
Veterinarian Office	20 gpd/100 sq. ft.
Warehouse/Speculation Building	2 gpd/100 sq. ft.
Wholesale Food Preparation (including but not limited to meat markets and commissaries)	35 gpd/100 sq. ft.

LEGEND:

gpd - gallons per day sq. ft. - square feet

NOTES:

- 1) Sewage gallonage refers to sanitary sewage flow on a per unit and/or use basis for average daily flow in gallons per day.
- per day.

 2) Condominiums shall be rated in accordance with the specific type of use (e.g., apartment, townhouse, warehouse, etc.).