



PUD/RESIDENTIAL APPLICATION IMPACTS TO FIRE RESCUE SERVICES

WOODRIDGE SOUTH/NE JACKSONVILLE RD AND NE 49TH ST/ PARCEL # 14976-004-00



Woodridge South NE 49st



- The request is to modify a 29.51-acre parcel. The concept plan as provided accounts for proposed 170 detached single family residential units with amenities.

Common Definitions Used By Fire Rescue



- ISO- The ISO (Insurance Services Office) rating is a crucial assessment for fire departments in the United States, directly influencing both the department's operations and the community it serves.
 - The ISO's Public Protection Classification (PPC) program evaluates a fire department's ability to protect its community from fire-related incidents, and assigns a rating that can affect property insurance rates for homes and businesses within the department's jurisdiction.
 - MCFR has a ISO rating of 2/2Y
- NFPA-The National Fire Protection Association (NFPA) is a global nonprofit organization devoted to eliminating death, injury, property, and economic loss due to fire, electrical, and related hazards.
 - Founded in 1896, the NFPA develops and publishes more than 300 codes and standards that are designed to minimize the risk and effects of fire and other hazards.

Common Definitions Used By Fire Rescue



- Workload- Workload is the first factor for consideration. The measure of how much work an individual unit incurs could be as simple as a sum of incidents within a given period of time, such as a year.
 - However, incident duration can vary significantly from minutes to hours and thus this method does not provide the best measure of workload.
 - A more accurate method—while still not a perfect measure—is to consider the amount of time to which a unit is assigned and compare that to the amount of time the unit is in service, a measure referred to as unit hour utilization.
 - The imperfection of this measure is that it does not capture other on-duty activities such as training, station maintenance, apparatus maintenance, hydrant testing, hose testing, pre-incident planning, public education events, etc.



Common Definitions Used By Fire Rescue

- Resource Reliability- refers to the number of incidents occurring simultaneously within the service area.
 - As the number of simultaneous incidents increases, the ability to respond to additional calls for service decreases.
 - Displayed in percentage of occurrence.

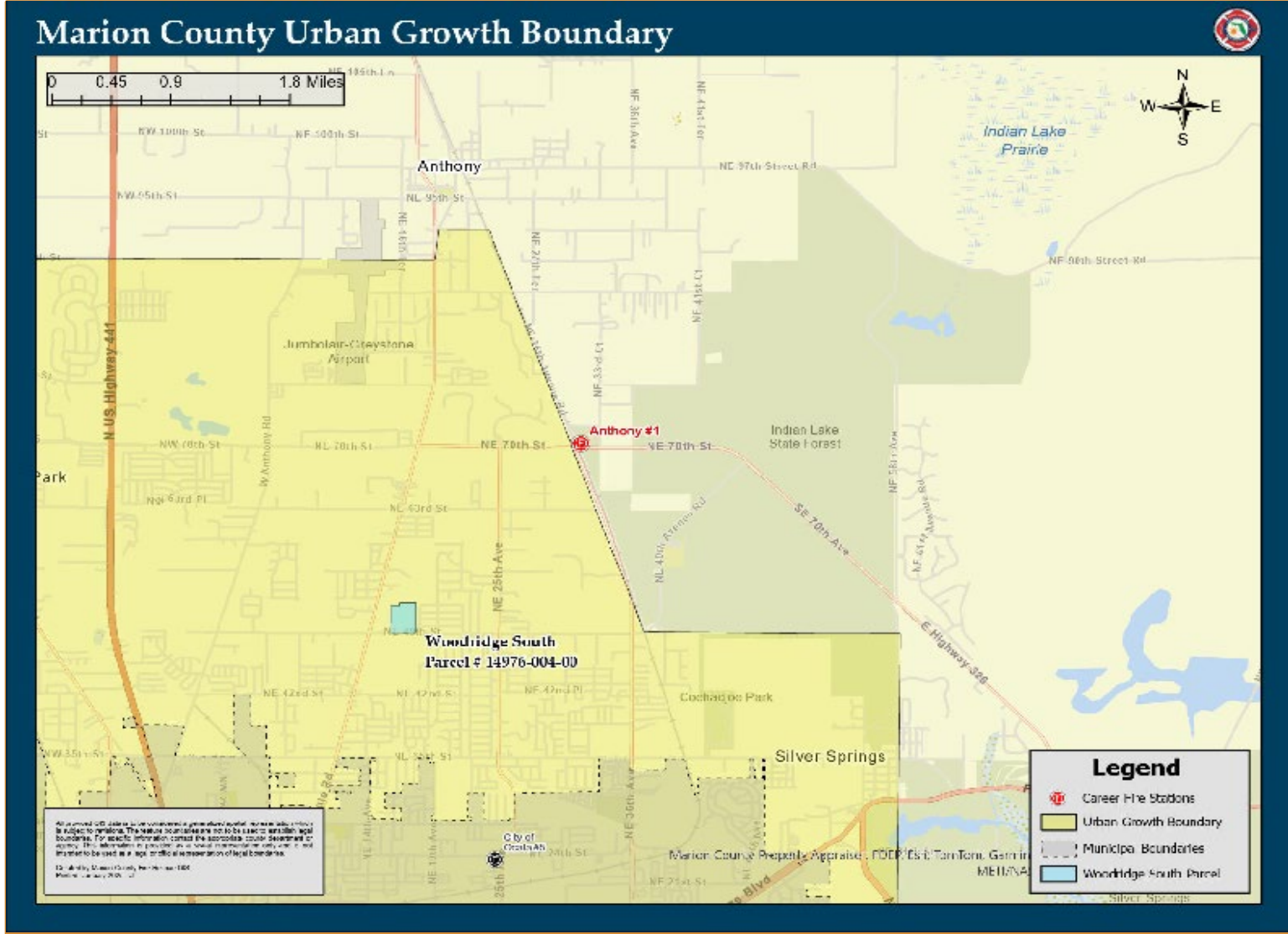
Level of concern for reliability	Percentage
Low	0-10%
Moderate	11-20%
High	21-30% or More

Common Standards Governing Fire Rescue



- NFPA 1061: Standard for Public Safety Telecommunications Personnel Professional Standards Qualifications
- NFPA 1201: Standard for Providing Fire and Emergency Services to the Public
- NFPA 1225, Standard for Emergency Services Communications
- NFPA 1660: Standard for Emergency, Continuity, and Crisis Management: Preparedness, Response, and Recovery
- NFPA 1620: Standard for Pre-Incident Planning
- NFPA 1710, Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Career Fire Departments.
- NFPA 1720, Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Volunteer Fire Departments.

THE PARCEL IS INSIDE THE URBAN GROWTH BOUNDARY AND IS LOCATED IN COMMISSION DISTRICT 4.



CLOSEST FIRE STATION LOCATIONS

THE FOLLOWING FIRE STATIONS ARE LOCATED NEAR THE PARCEL FOR CONSIDERATION:

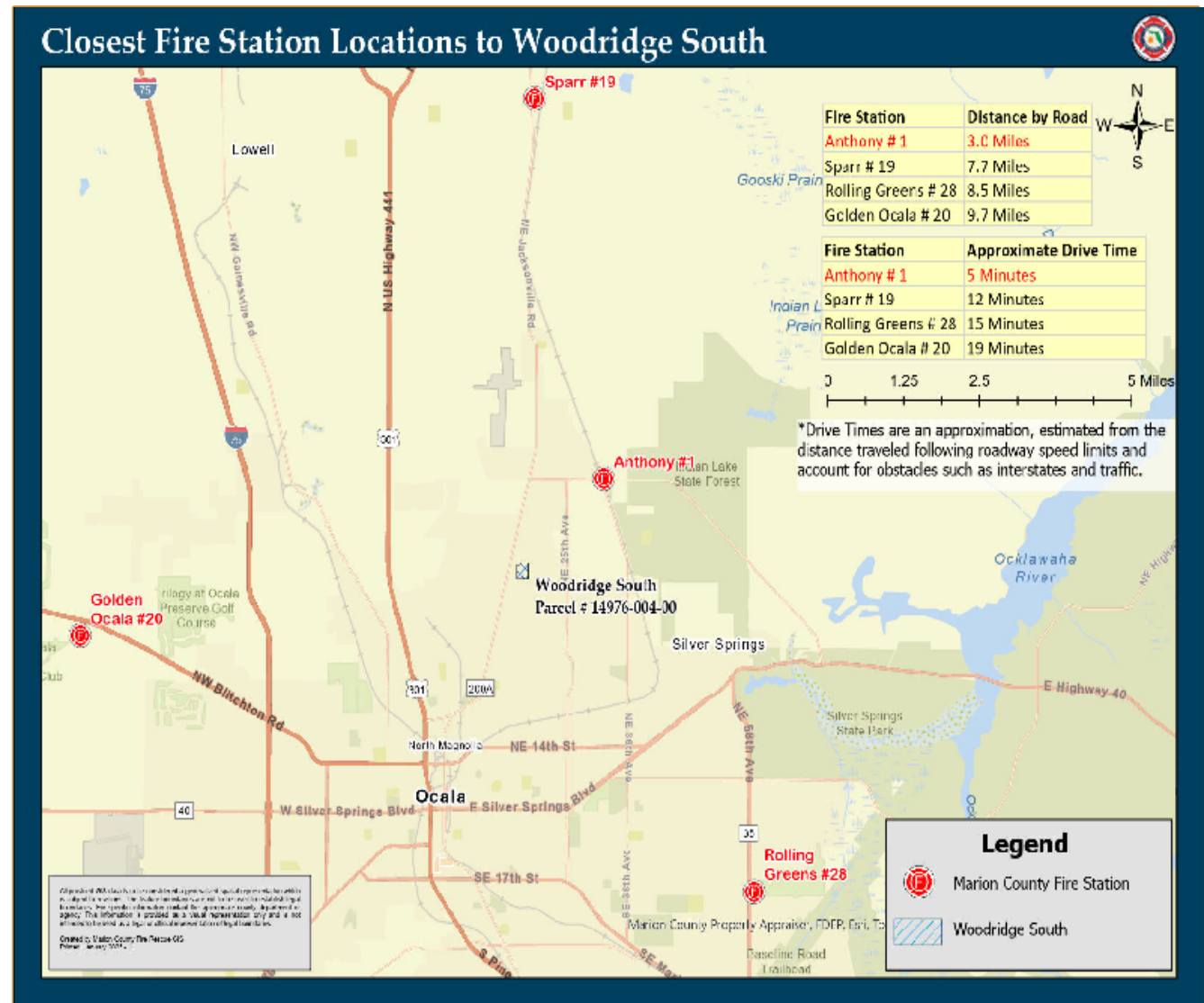
FIRE STATION 01, 3 ROAD MILES

FIRE STATION 19, 7.7 ROAD MILES

FIRE STATION 28, 8.5 ROAD MILES

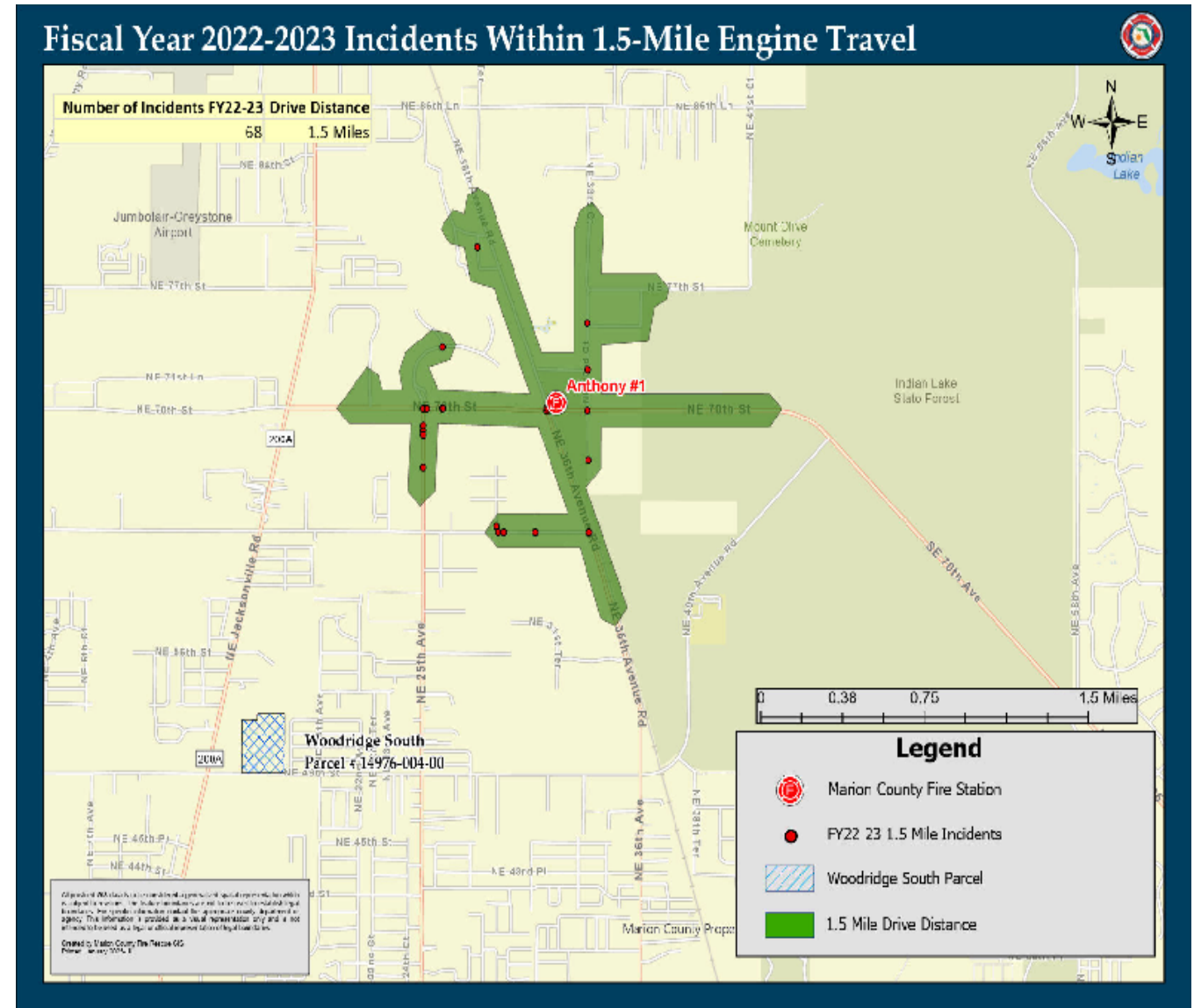
FIRE STATION 20, 9.7 ROAD MILES

Empowering Marion for Success



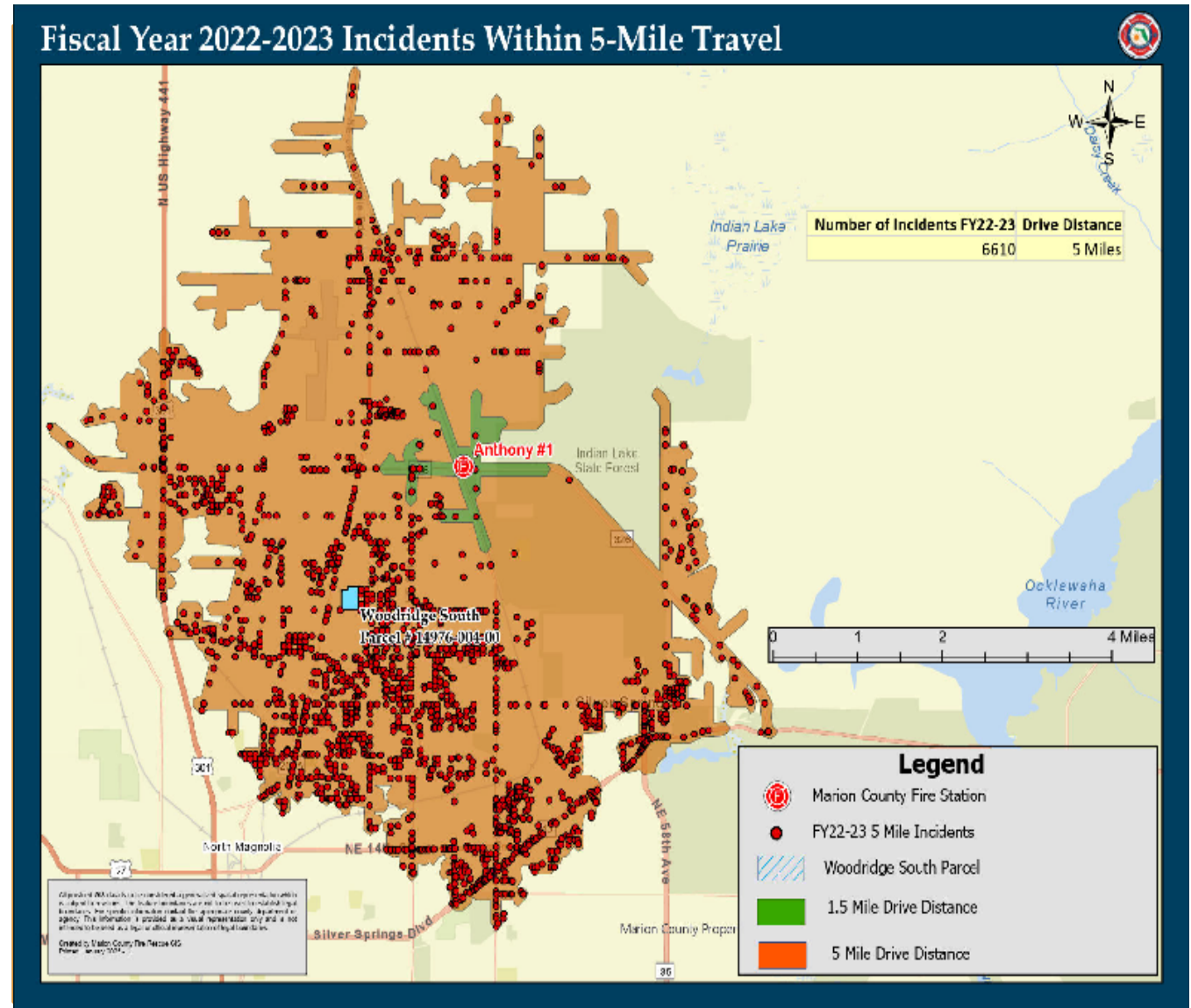
THERE WERE 68 CALLS FOR SERVICE
WITHIN THE 1.5 MILE ENGINE TRAVEL
FOR FIRE STATION 1.

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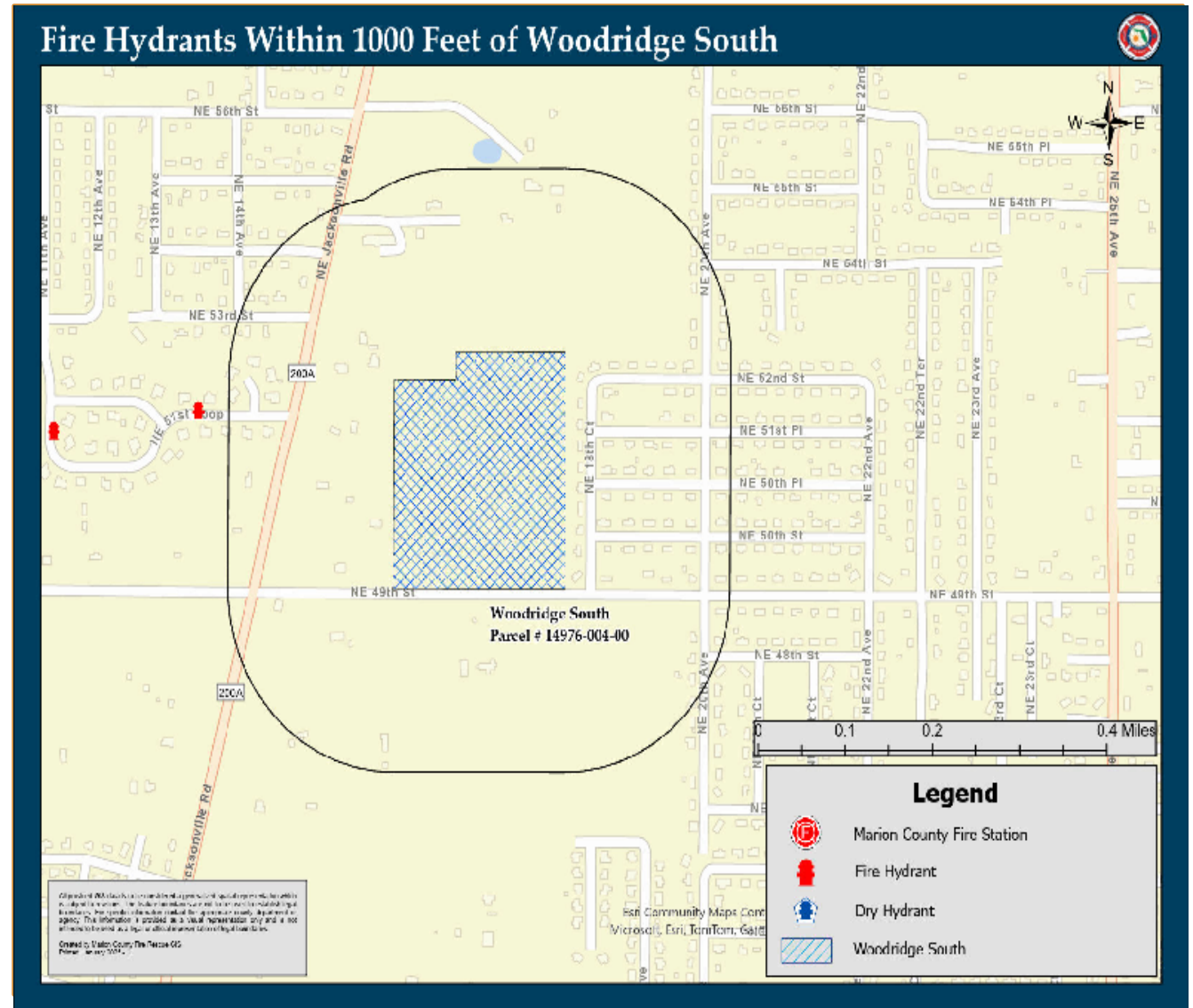
FY22/23 INCIDENTS WITHIN 5-MILE TRAVEL

THERE WERE 6610 CALLS FOR
SERVICE WITHIN THE 5 MILE TRAVEL
FOR FIRE STATION 1.



THIS PARCEL IS NOT WITHIN 1,000 FEET OF ANY FIRE HYDRANTS OR DRY HYDRANTS.

Empowering Marion for Success



Closest Fire Suppression Response



- Station 1 (Anthony)
 - 5-minute travel time
 - Low incident reliability concern per non-transport unit at .58 % in FY22/23
 - 2585 incidents/unit (Above Trigger Point)
 - 1 Engine
- Station 19 (Sparr)
 - 12-minute travel time
 - Low incident reliability concern per non-transport unit at 3.22 % in FY22/23
 - 745 incidents/unit
 - 1 Engine
- Station 28 (Rolling Greens)
 - 15-minute travel time
 - Low incident reliability concern per non-transport unit at 8.9 % in FY22/23
 - 2943 incidents/unit (Above Trigger Point)
 - 1 Engine
- Station 20 (Golden Ocala)
 - 19-minute travel time
 - Low incident reliability concern per non-transport unit at 7.03 % in FY22/23
 - 2319 incidents/unit (Above Trigger Point)
 - 1 Engine

**Note: non-transport units with greater than 2,000 incidents is measure to consider adding additional resources.*

Closest Ambulance Response

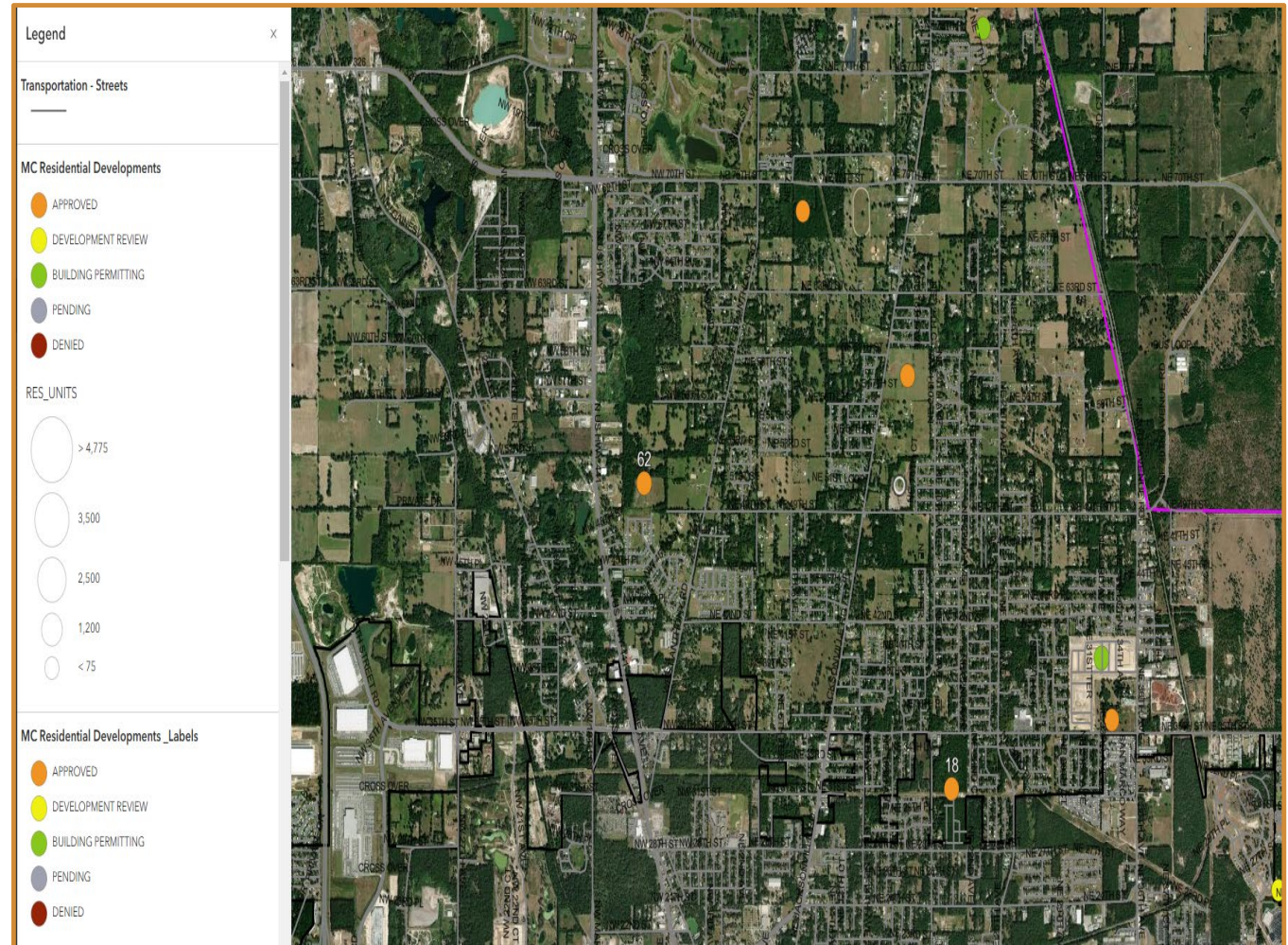


- Station 1 (Anthony)
 - 5-minute travel time
 - Moderate incident reliability concern per transport unit at 23.65% in FY22/23
 - 2926 incidents/unit (Above Trigger Point)
 - 1 Rescue
- Station 19 (Sparr)
 - 12-minute travel time
 - Moderate incident reliability concern per transport unit at 24.55 % in FY22/23
 - 2437 incidents/unit
 - 1 Rescue
- Station 28 (Rolling Greens)
 - 15-minute travel time
 - Low incident reliability concern per transport unit at 3.93 % in FY22/23
 - 3383 incidents/unit (Above Trigger Point)
 - 2 Rescues
- Station 20 (Golden Ocala)
 - 19-minute travel time
 - High incident reliability concern per transport unit at 30.43 % in FY22/23
 - 3963 incidents/unit (Above Trigger Point)
 - 1 Rescue

**Note: transport units with greater than 2,500 incidents is measure to consider adding additional resources.*

OTHER RESIDENTIAL DEVELOPMENTS

THERE WERE 7 OTHER
DEVELOPMENTS CONSIDERING FIRE
RESCUE SERVICE LEVELS IN
ADDITION TO THIS REQUEST.



Current Status of Fire Rescue Service in the Area.



- There area no additional budgeted units for this area to date.

Recommendations from Fire Rescue



- If approved, additional resources are warranted to handle increased demand from the proposed parcel.
 - The suppression units and transport units from three of the four closest fire stations are above the adopted capacity limits currently and additional growth will exacerbate these numbers.
 - Additional Suppression unit is warranted.
 - Additional Transport Unit is warranted.

Recommendations from Fire Rescue- Suppression Unit



Engine/Ladder/Heavy Rescue Costs

	Lieutenant/PM	Driver/PM	EMT	Relief Factor (1.17)	Total Per Shift	Total Per Unit
Average Hourly Rate	\$27.45	\$24.00	\$15.25		N/A	N/A
Stipend	\$0.00	\$0.00	\$0.00		N/A	N/A
Total Hourly Rate	\$27.45	\$24.00	\$15.25		N/A	N/A
Regular Salary/Wages (2,756 hours)	\$75,652.20	\$66,144.00	\$42,029.00	\$31,250.28	\$215,075.48	\$645,226.45
Built-in Overtime (173)	\$7,123.28	\$6,228.00	\$3,957.38	\$2,942.47	\$20,251.12	\$60,753.36
Additional Overtime (150)	\$6,176.25	\$5,400.00	\$3,431.25	\$2,551.28	\$17,558.78	\$52,676.33
Subtotal	\$88,951.73	\$77,772.00	\$49,417.63	\$36,744.03	\$252,885.38	\$758,656.14
FICA Taxes (0.062)	\$5,515.01	\$4,821.86	\$3,063.89	\$2,278.13	\$15,678.89	\$47,036.68
Medicare (0.0145)	\$1,289.80	\$1,127.69	\$716.56	\$532.79	\$3,666.84	\$11,000.51
Retirement Contributions (0.25898)	\$23,036.72	\$20,141.39	\$12,798.18	\$9,515.97	\$65,492.26	\$196,476.77
Worker's Compensation (0.02951)	\$2,624.97	\$2,295.05	\$1,458.31	\$1,084.32	\$7,462.65	\$22,387.94
Health Insurance	\$11,896.00	\$11,896.00	\$11,896.00	\$6,066.96	\$41,754.96	\$125,264.88
Life, AD&D, LTD (0.006741)	\$599.62	\$524.26	\$333.12	\$247.69	\$1,704.70	\$5,114.10
Total	\$133,913.84	\$118,578.26	\$79,683.69	\$56,469.88	\$388,645.67	\$1,165,937.02

Engine (As Equipped)

Vehicle	Cost	Expected Life Cycle
Truck	\$ 705,000	10-12 years
Equipment	Cost	Expected Life Cycle
Truck Radio	\$ 9,000	10 years
Portable Radio (4)	\$ 40,000	10 years
Setcom Intercom/Radio Set	\$ 2,500	
Onboard Mobile Gateway	\$ 2,000	10 years
Ruggedized Tablet MDT mount included docking station and pole	\$ 2,355	5 years
Self Contained Breathing Apparatus (4)	\$ 40,000	10 years
SCBA bottle 4500psi (8)	\$ 12,000	10 years
Powered Extrication Equipment (1 set)	\$ 30,000	10 years
Positive Pressure Fan 20"	\$ 4,000	
Thermal Imager Monitor Bullard T3	\$ 10,000	
K-12 950's	\$ 1,700	
Chainsaw	\$ 500	
Nozzles	\$ 7,000	
Fire Hose	\$ 15,000	
Miscellaneous Fire Equipment and Supplies	\$ 7,000	
Cardiac Monitor	\$ 31,000	10 years
Miscellaneous Medical Equipment and Supplies	\$ 8,000	
Subtotal Equipment	\$ 222,055	
Total	\$ 927,055	Revised 2/1/23

Recommendations from Fire Rescue- Transport Unit



Dual-Certified Rescue Costs

	PM	EMT	Relief Factor (1.17)	Total Per Shift	Total Per Unit
Base Hourly Rate	\$18.25	\$15.25		N/A	N/A
Stipend	\$2.00	\$0.75		N/A	N/A
Total Hourly Rate	\$20.25	\$16.00		N/A	N/A
Regular Salary/Wages (2,756 hours)	\$55,809.00	\$44,096.00	\$16,983.85	\$116,888.85	\$350,666.55
Built-in Overtime (173)	\$5,254.88	\$4,152.00	\$1,599.17	\$11,006.04	\$33,018.13
Additional Overtime (150)	\$4,556.25	\$3,600.00	\$1,386.56	\$9,542.81	\$28,628.44
Subtotal	\$65,620.13	\$51,848.00	\$19,969.58	\$137,437.71	\$412,313.12
FICA Taxes (0.062)	\$4,068.45	\$3,214.58	\$1,238.11	\$8,521.14	\$25,563.41
Medicare (0.0145)	\$951.49	\$751.80	\$289.56	\$1,992.85	\$5,978.54
Retirement Contributions (0.25898)	\$16,994.30	\$13,427.60	\$5,171.72	\$35,593.62	\$106,780.85
Worker's Compensation (0.02951)	\$1,936.45	\$1,530.03	\$589.30	\$4,055.79	\$12,167.36
Health Insurance	\$11,856.00	\$11,856.00	\$4,031.04	\$27,743.04	\$83,229.12
Life, AD&D, LTD (0.006741)	\$442.35	\$349.51	\$134.61	\$926.47	\$2,779.40
Total	\$101,869.16	\$82,977.51	\$31,423.93	\$216,270.60	\$648,811.81

Fire-Based Ambulance (As Equipped)

Vehicle	Cost	Expected Life Cycle
Truck With PowerLoad System	\$ 344,000	6 years
Equipment	Cost	Expected Life Cycle
Truck Radio	\$ 9,000	10 years
Portable Radio (2)	\$ 20,000	10 years
Onboard Mobile Gateway	\$ 2,000	10 years
Ruggedized Tablet MDT mount included docking station and pole	\$ 2,355	5 years
Ruggedized Tablet PCR	\$ 2,000	5 years
Self Contained Breathing Apparatus (2)	\$ 20,000	10 years
SCBA bottle 4500psi (4)	\$ 6,000	10 years
Battery Powered Saw	\$ 1,000	
Miscellaneous Fire Equipment and Supplies	\$ 7,000	
Cardiac Monitor	\$ 31,000	10 years
Chest Compression System	\$ 15,000	8 years
Stair Chair	\$ 4,000	10 years
Autovent	\$ 4,000	10 years
Miscellaneous Medical Equipment and Supplies	\$ 15,000	
Lucas		
Stretcher	\$ 25,000	10 years
Subtotal Equipment	\$ 129,355	
Total	\$ 473,355	Revised 2/1/23



QUESTIONS?