

Evaluation Matrix: North vs Center Alignment Alternatives



Criteria	North Alignment Alternative ⁽²⁾	Center Alignment Alternative ⁽²⁾
Traffic Operations and Safety		
Safety	↑	↑
Emergency Response Times	↑	↑
Intersection Delay (Local SW 10 th Street)	↓	↓
Intersection Level of Service	AM / PM	AM / PM
<i>Waterways Boulevard</i>	C / C	C / C
<i>Independence Bay</i>	A / A	Unsignalized
<i>Powerline Road</i>	E / E	E / E
<i>SW 30th Avenue</i>	Unsignalized	Unsignalized
<i>SW 28th Avenue</i>	D / D	C / C
<i>SW 24th Avenue</i>	Unsignalized	Unsignalized
<i>Military Trail</i>	E / E	E / D
Segment Level of Service (west / middle / east)	F / E / D	F / F / F
Local SW 10 th Street Demand (Vehicle Trips) West of Powerline Road / West of Military Trail	54,000 / 28,000	56,400 / 31,700
Managed Lanes Demand (Vehicle Trips) West of Powerline Road / West of Military Trail	33,600 / 54,200	33,600 / 54,200
Direct Access to Managed Lanes	✓	✓
Access from Side Streets and Properties		
<i>Side Street Access Changes</i>	0	3
<i>Driveway Access Changes</i>	3	3
Social and Economic		
Commercial Parcels Impacted	11	19
Residential Parcels Impacted	6	4
Government Parcels Impacted	1	2
Acres of Permanent Impacts	2.10	2.49
Acres of Temporary Impacts (Construction Easements)	7.95	3.96
Potential Number of Commercial Relocations	2	2
Potential Number of Residential Relocations	0	0
Consistent with COAT Recommendations (18 main, 15 sub categories = 33 total) 29 apply to SW 10 th Street Connector	22 of 29, 7 are TBD	19 of 29, 7 are TBD
Cultural		
Section 4(f) Resources Impacted (Quiet Waters Park)	Yes	Yes
Permanent Section 4(f) Use (ac)	TBD	TBD
Temporary Section 4(f) Use (ac)	1.82	0.63
Natural Environment		
Wetland Impacts		
Surface Water Impacts	Similar	Similar
Protected Species and Habitat Impacts		
Physical Environment		
Noise Walls	TBD	TBD
Permanent Pumps for Drainage	Yes	Yes
Aesthetics / Visual Impacts	Similar	Similar
Multimodal		
Pedestrian Facilities	1	2
Bicycle Facilities	2	2
Utilities		
City of Deerfield Beach Wells Impacted?	TBD	TBD
Total Number of Utilities Impacted	8	8
Requires Relocation of Transmission Poles and all Buried Utilities	Yes	Yes
FP&L Substation Impacted?	Yes	Yes
Utility Relocation Costs	\$ \$ \$ \$	\$ \$ \$ \$
Constructability		
Construction Duration (does not include utility relocation timeframe)	3 to 5 years	3 to 5 years
Project Cost		
Construction	\$ \$ \$ \$ \$	\$ \$ \$ \$ \$
Right-of-way	TBD	TBD
Maintenance	TBD	TBD
Total Costs	TBD	TBD

Denotes More Favorable Criteria

(2) Assumes 2040 conditions with I-95, Sawgrass, and Turnpike managed lanes, interchange improvements, and SW 10th Street Connector with 1 entrance / exit ramp in each direction to / from the managed lanes.