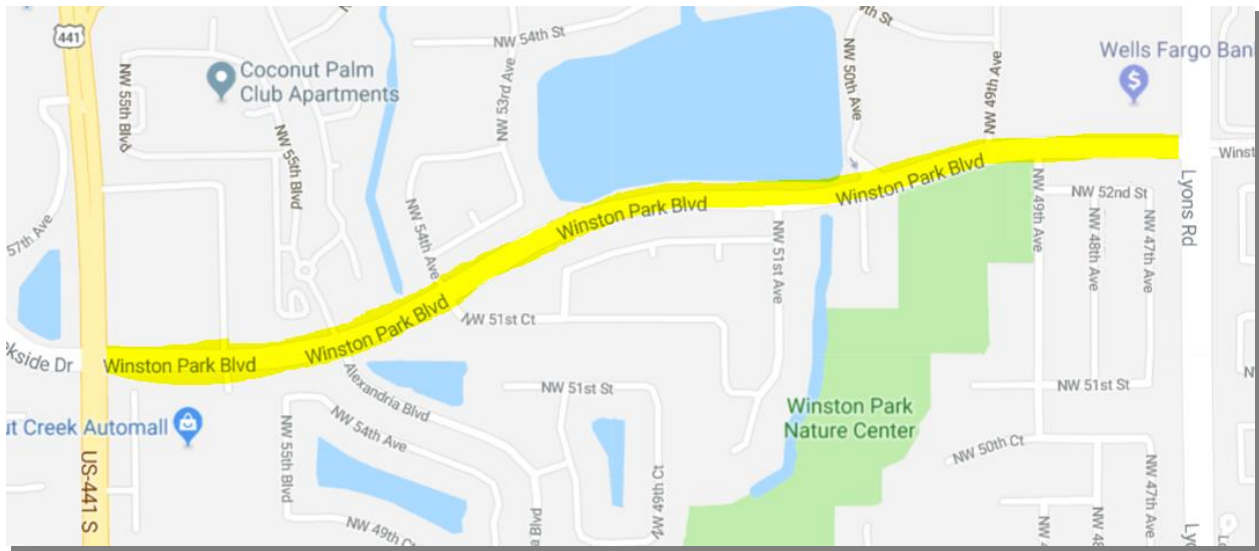


**EXHIBIT "A-1"**  
**PROJECT DESCRIPTION AND RESPONSIBILITIES**

This exhibit forms an integral part of the Joint Participation Agreement between the State of Florida, Department of Transportation and the City of Coconut Creek.

**PROJECT LOCATION:**

Winston Park Blvd between SR-/US-441 and Lyons Road in the City of Coconut Creek.



**PROJECT DESCRIPTION:**

To provide funding to the City of Coconut Creek for the purchase and installation of solar powered LED delineators. The delineators shall be installed parallel to the bike lanes along a one mile section, in both directions (East and West), of Winston Park Blvd between SR-/US-441 and Lyons Road.

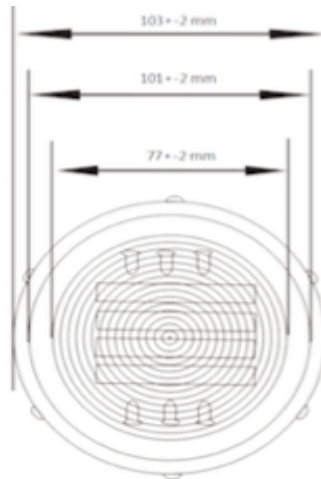
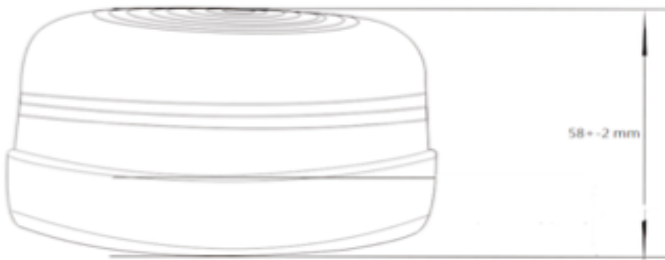
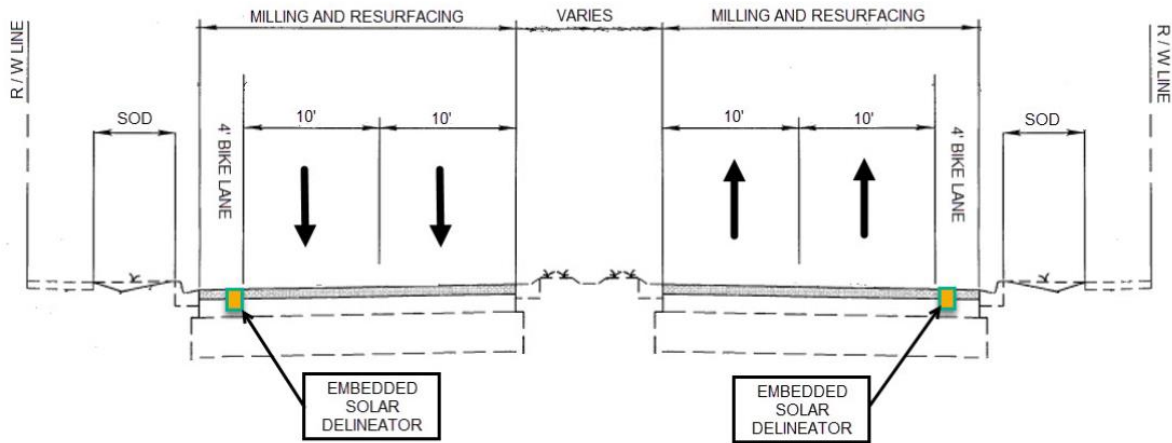
**PROJECT SCOPE:**

Phase 1: Purchase

The FDOT Project Manager in collaboration with the City of Coconut Creek Project Manager will identify MS Type delineators to be purchased to cover a one mile roadway/bike lane section, in both directions, with approximately six to eight feet spacing between each delineator. The optional MS Type specifications are shown below:

**Phase 2: Installation**

Install the LED solar delineators per the approved, signed and sealed plans and specifications.



**MS Type Specifications**

Distributor: BMS, LLC

Website:

BuyMiamiSecurity.com

Type 1	Type 2	Type 3	Type 4	Type 5	Type 6
<p>Available colors: white yellow red green</p> <p>3 lights on 2 sides 3 lights on 1 side</p> <p>Light diameter 5mm</p>	<p>Available colors: white yellow red green</p> <p>4 lights on 2 sides 4 lights on 1 side</p> <p>Light diameter 5mm</p>	<p>Available colors: white yellow red green</p> <p>5 lights on 2 sides 5 lights on 1 side</p> <p>Light diameter 5mm</p>	<p>Available colors: white yellow red green</p> <p>12 lights, 360 degrees</p> <p>Light diameter 10mm</p>	<p>Available colors: white yellow red green</p> <p>6 lights, 180 degrees</p> <p>Light diameter 10mm</p>	<p>Available colors: white yellow red green</p> <p>3 lights on 2 sides 30 degrees tilt</p> <p>Light diameter 5mm</p>

MS Type	Embedded Top Exposure	Flush Mount	LED Configuration Option	Number of LEDs
1	0.25 Above Pavement	No	Standard Only	3 Per Side (6 Total)
2	0.25 Above Pavement	No	Standard Only	4 Per Side (8 Total)
3	0.25 Above Pavement	No	Standard Only	5 Per Side (10 Total)
4	0.25 Above Pavement	No	Standard Only	12 Per Side (12 total)
5	0.25 Above Pavement	No	Standard Only	6 Per Side (6 Total)
6		YES	1 or 2 Side Option	3 Per Side (6 Total)

Unibody housing and lens material: Tempered glass

Top Load Compression Strength: 9100 Kilograms

Lens Material: Tempered Glasses - None Fading / No Decolorization

Unit Weight: 2.00 pounds

Full Cycle Charge Time: 4 hours

Operations time per charge: 36 hours

Solar panel dimension: 2.05 x 1.97 inches

Solar panel material: Mono-crystalline silicon with Light Sensor for night time operation

LED Brightness: 45 Lumen per LED

LED Color: White (4900K)

LED Power: 36mW

Waterproof Rating: IP68