

SR426/CR419
PHASE II WIDENING
PATTERNED PAVEMENT

WHAT IS PATTERNED PAVEMENT?

Patterned (or stamped) concrete is standard concrete pavement that is colored and/or stained and imprinted with a pattern prior to curing.

Ennis-Flint® by PPG
TrafficPatternsXD®

Preformed Thermoplastic

Impressed surface system

Preformed thermoplastic crosswalks and traffic-calming surfaces for asphalt
ENNIS-FLINT® by PPG TRAFFICPATTERNSXD® preformed thermoplastic is an extremely durable material that incorporates a unique aggregate-reinforced formula with enhanced wear resistance. The result is a traffic-tough, long-lasting crosswalk with a traditional, brick-like aesthetic.



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Design
Enhanced durability provides excellent wear in a variety of climates.
Its 1/4" thickness withstands heavy traffic and allows for easy removal, replacement, and color.
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Installation
Applied to high quality, subgrade at the minimum subgrade depth.
Fast installation and minimal traffic downtime.
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Pedestrian Safety
A 1/4" thick thermoplastic material is extremely durable and resistant to wear.
As a result, a smooth, non-slip surface is created.
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Compliance/Certification
ASPC (American Society of Pavement Contractors) and NCHRP (National Cooperative Highway Research Program) have both certified this product.
Fully ISO 9001:2015 certified for the design, manufacturing and installation of preformed thermoplastic.



Background

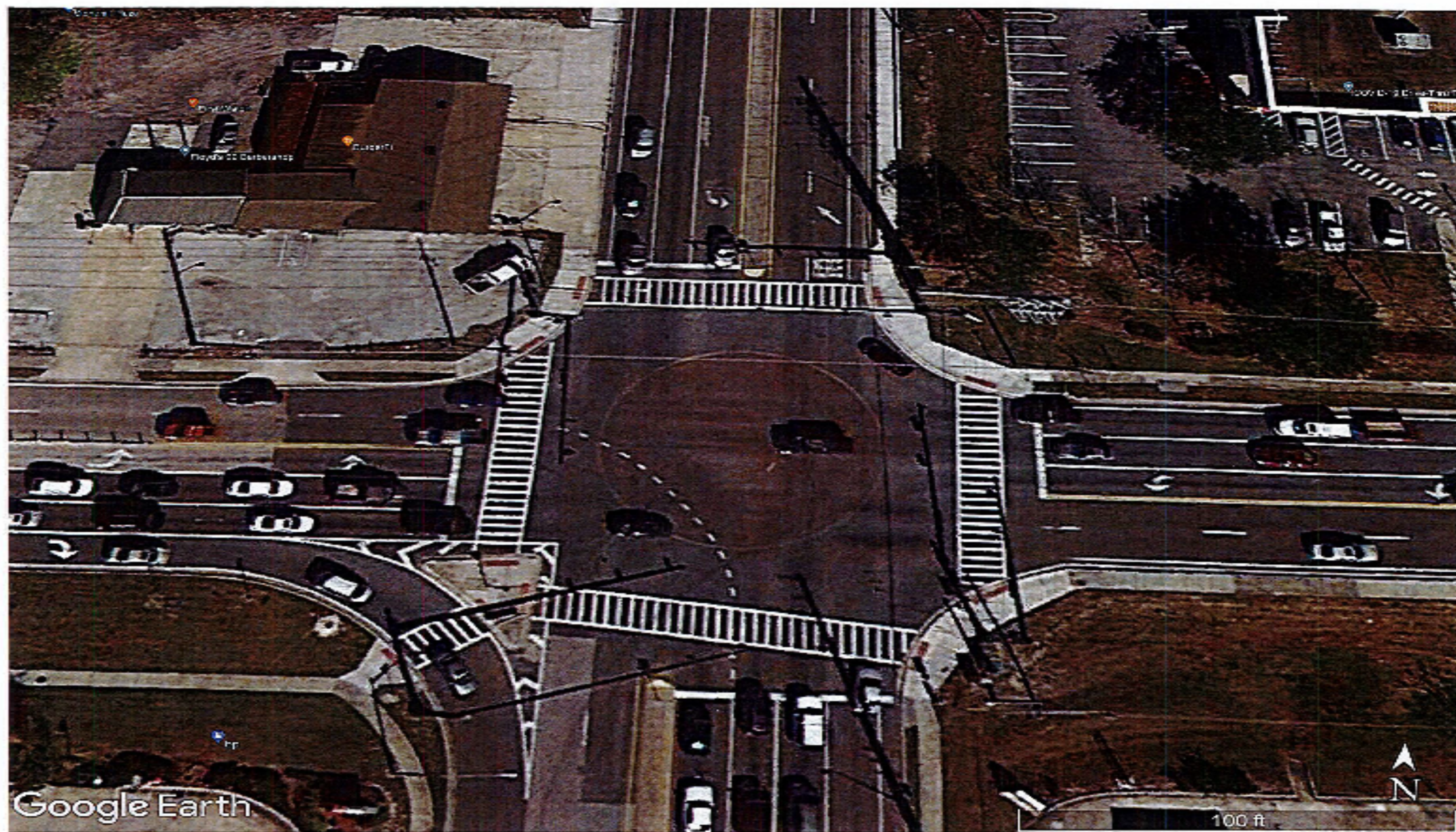
- On April 28, 2014 City Council Work Session directed an enhanced landscape and hardscape aesthetic for the SR426/CR419 Phase I & II widening project.
- Conceptual designs shown at the 2014 work session for the Phase II corridor depict patterned pavement treatments at signalized intersections along SR426 and CR419
- Phase I Widening constructed in 2017 with enhanced hardscape but no patterned pavement (typical striping only).
- Enhanced Phase I landscape installed post roadway construction.

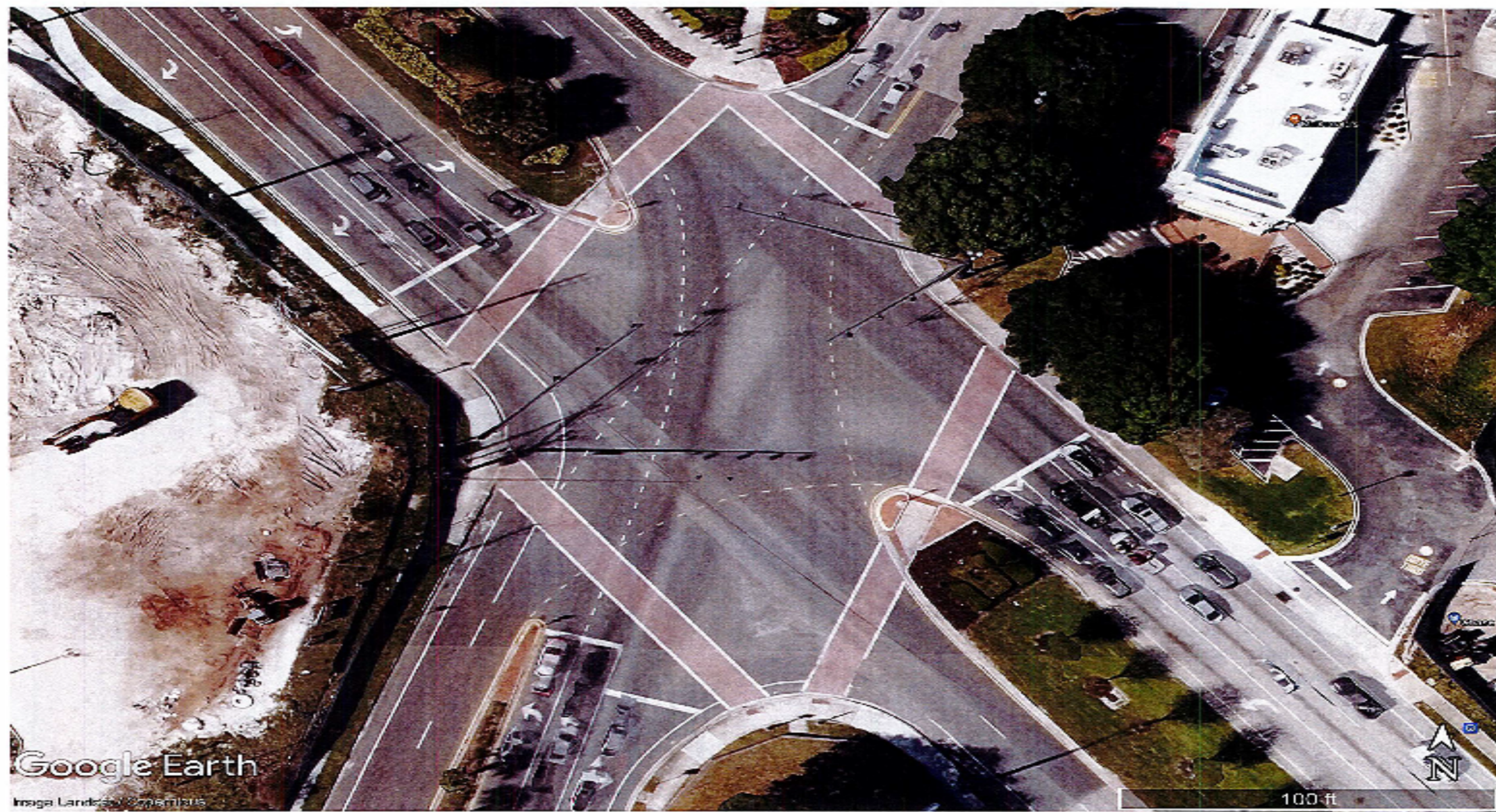
Background (continued)

Patterned Pavement included in Phase II Widening design:

- SR426/Lake Jessup Avenue Intersection
- SR426/SR434 Intersection
- CR419/Realigned Geneva Drive Intersection
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- CR419/Oviedo Boulevard Intersection

Patterned Pavement Examples





Google Earth

Image Landsat/Copernicus

100 ft



SR426/CR419 Phase II Widening

Conceptual Patterned Pavement







Cost Considerations

- Phase 2 Widening includes 2,845 square yards (SY) of patterned pavement
- Phase 2 Contractor bid was \$111/SY = \$316,705 for entire project
- Original Engineer's estimate for project was \$85/SY
- Current FDOT project bids are \$255/SY
- $\$255/\text{SY} \times 2,845 \text{ SY} = \$725,475$
- Projected future pricing makes maintenance/replacement cost prohibitive

QUESTIONS?