

## Applicant Presentation – Ordinance 2022-019

**Planning Commission** 

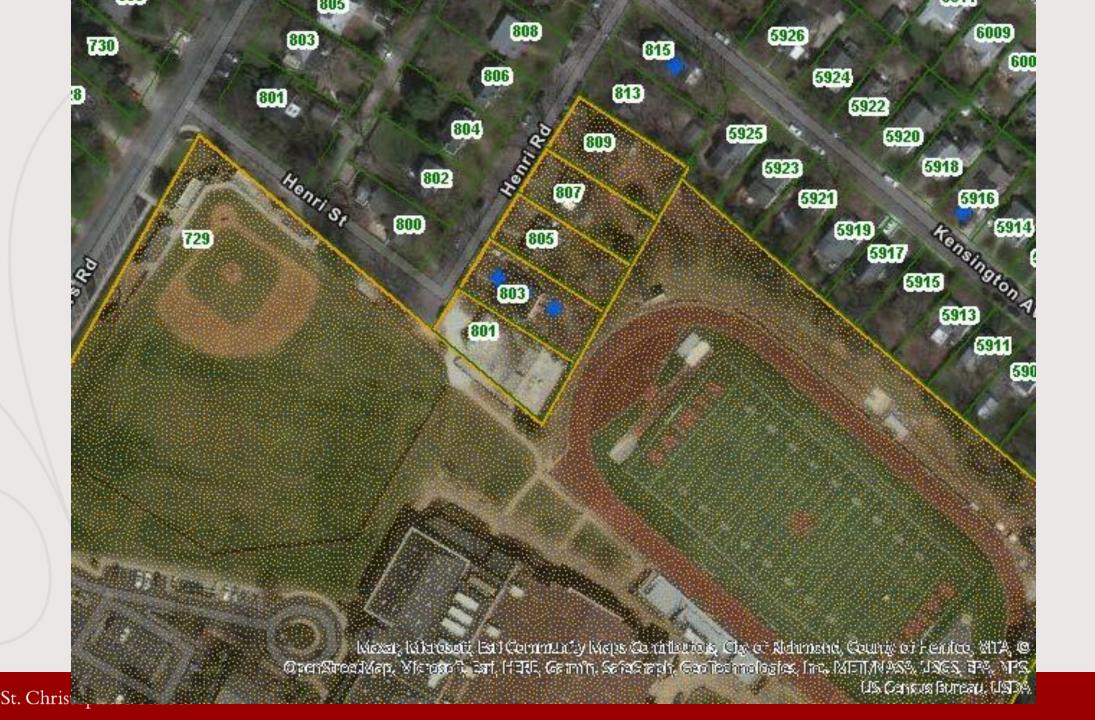
February 7, 2022

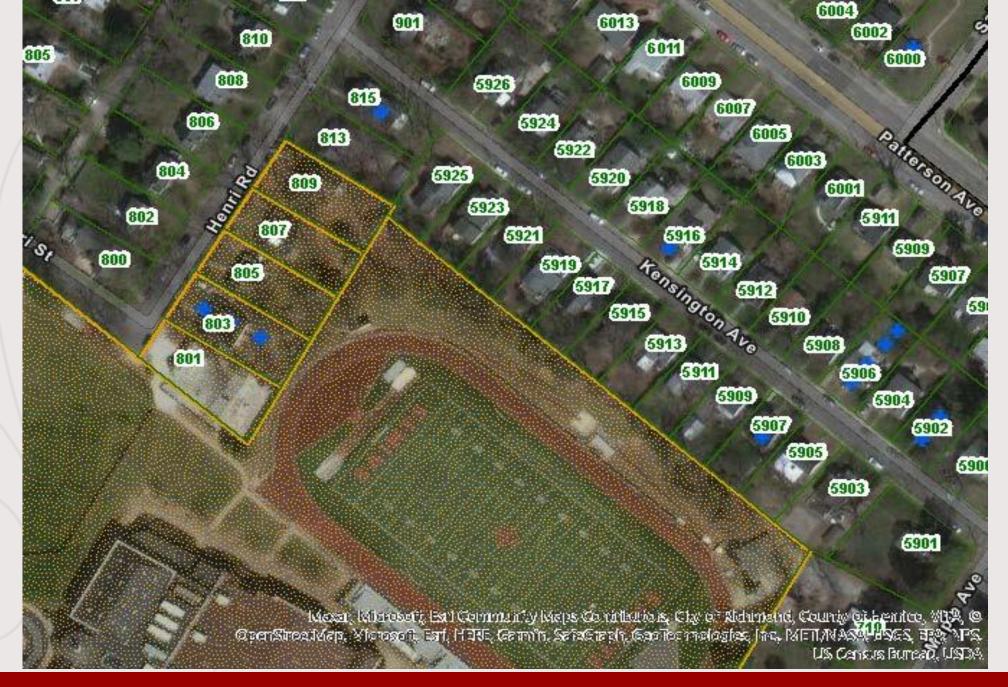
# STC Field Lighting Overview / Benefits

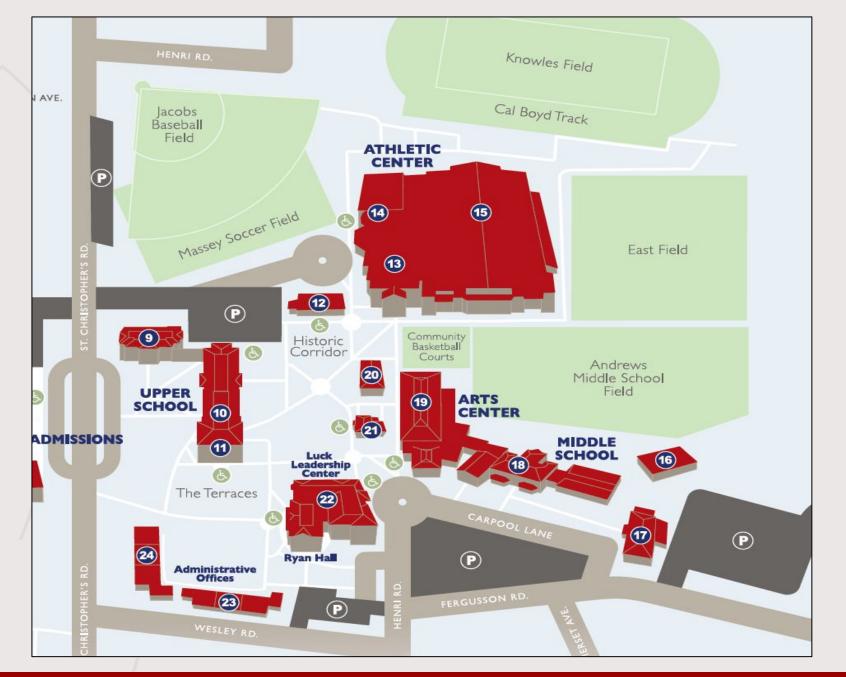
St. Christopher's plans to install field lighting to illuminate **Knowles Field** (supporting football, lacrosse, soccer & track) and **Jacobs / Massey Field** (supporting baseball & soccer). The addition of lighting to these fields allows the school to expand the usage of its outdoor field space to accommodate the largest Upper School student body in the school's history.

- Field lighting will support both competition and practice, provide added weather flexibility, reduce Saturday afternoon competition, improve the school community experience and strengthen St. Christopher's overall.
- Field lighting will enhance game day experience for fans and spectators.
- The availability of increased early evening athletic practice also expands the school's academic scheduling possibilities in both Upper and Middle Schools.
- There will not be a net increase in competition events.

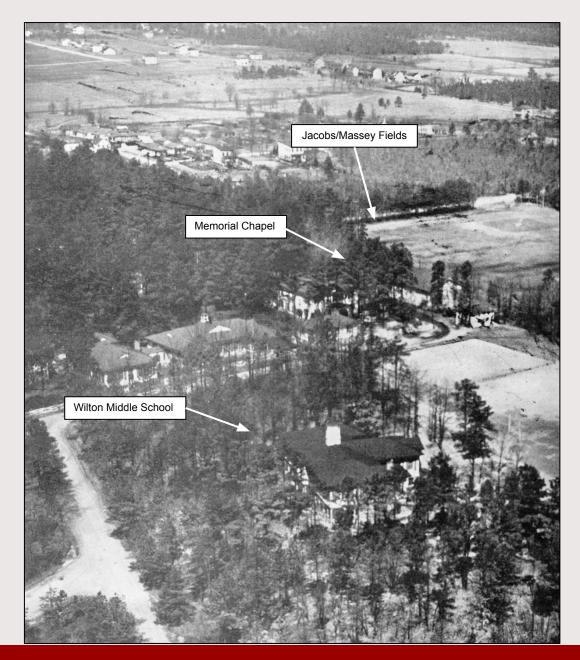








# St. Christopher's School Fields Today vs. ± 80 Years Ago



# St. Christopher's School Fields Today vs. <u>+</u> 80 Years Ago



### St. Christopher's School Fields - Today vs. ± 80 Years Ago



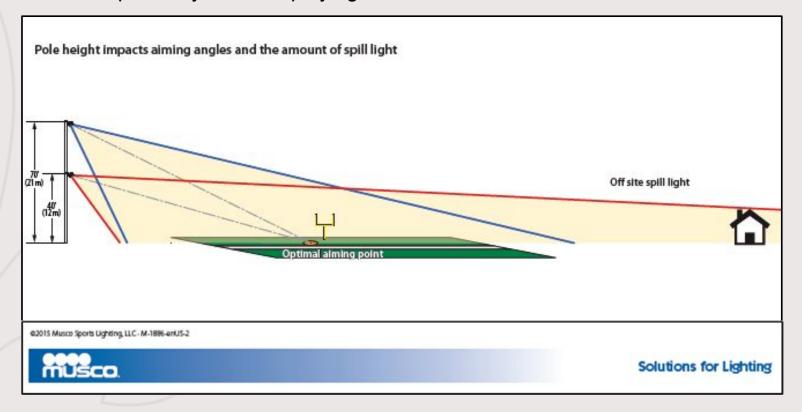






#### St. Christopher's School Fields -

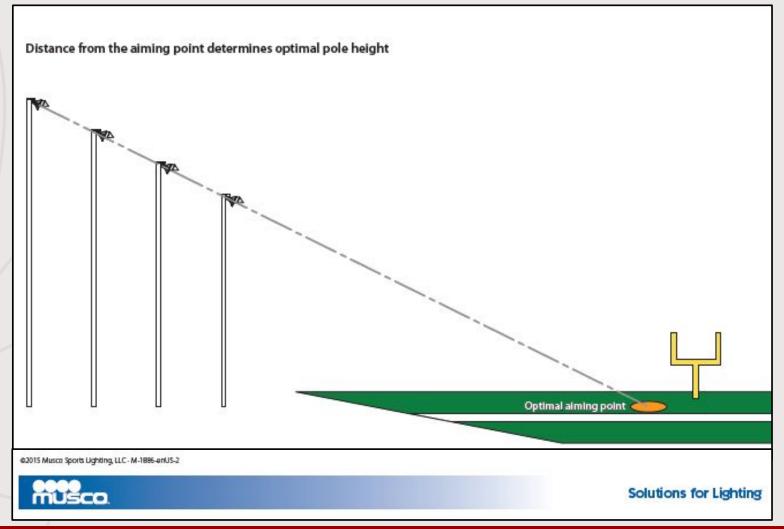
As with most athletic field lighting projects, pole heights of 60' – 80' are included in the St. Christopher's field lighting design to manage the light aiming angles and minimize the off site light spill and glare. Each LED is individually visored to direct the precisely onto the playing surface.



As illustrated, a "by-right" solution using poles with heights limited to 35' would require up to four times the number of poles and more significantly decrease the aiming angle to 10 degrees or less – significantly impacting the level of off site light spill and glare.

#### St. Christopher's School Fields -

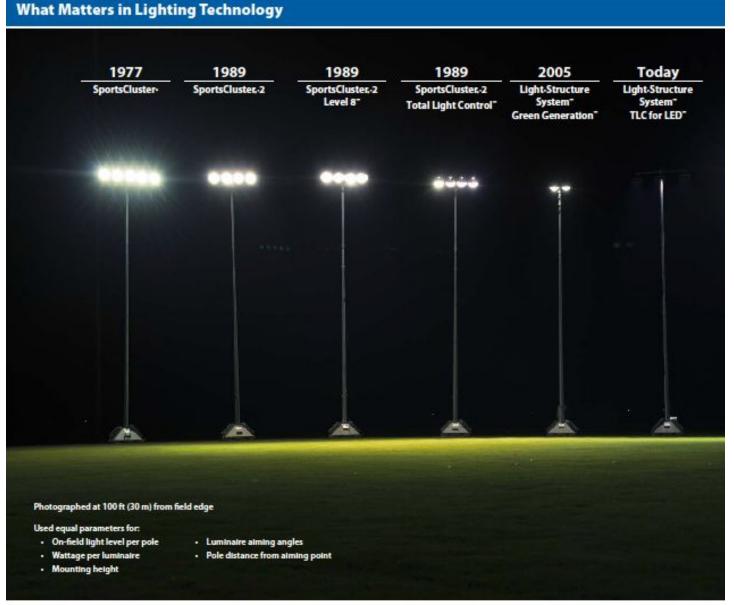
Optimal field lighting solutions manage both pole locations and pole heights which angle the light downward onto the playing surface while controlling the glare and spill of light to neighboring properties.



## **Evolution of Field Light** Control



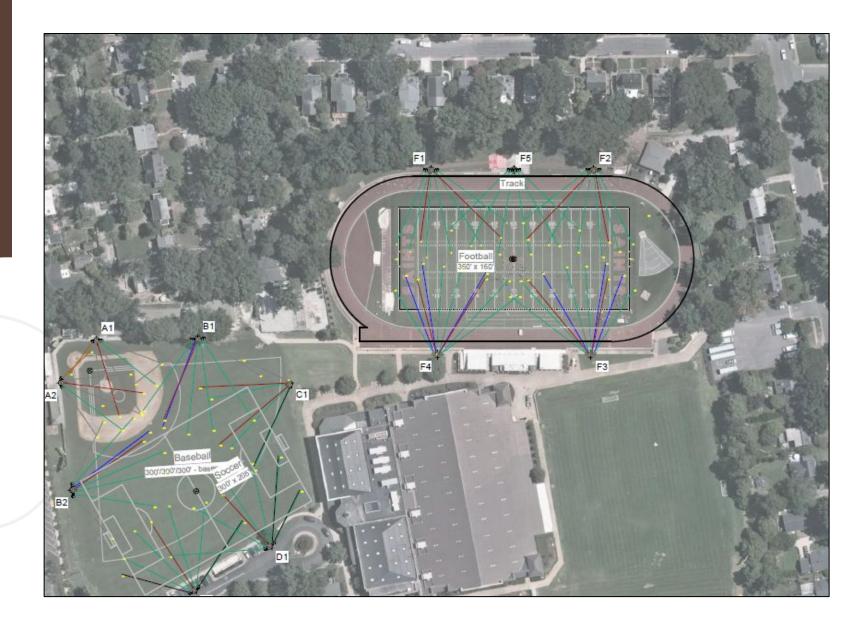
The design and use of Light-Emitting Diode (LED) technology eliminates disruptive glare or spill of light into neighboring areas and preserve the dark skies above.



02015, 2017 Munico Sports Lighting, LLC - M-1909-en04-3



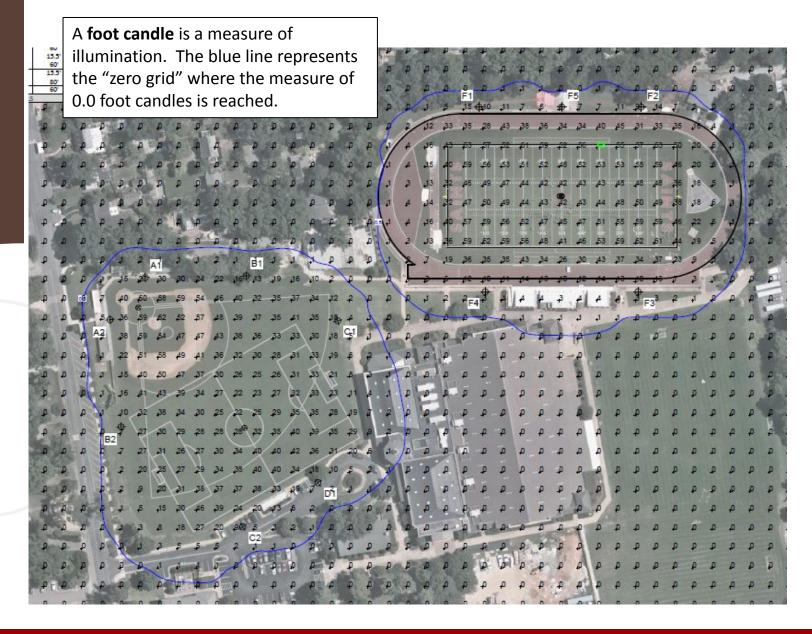
Field Light Layout /
Photometric
Planning



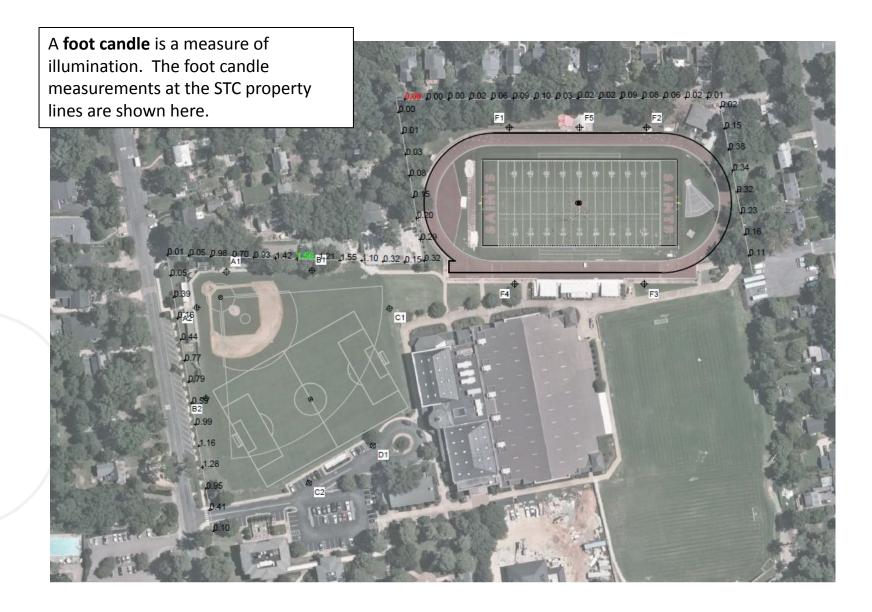
Photometric Planning / Foot Candle Review

A **foot candle** is a measure of illumination. The blue line represents the "zero grid" where the measure of 0.0 foot candles is reached.

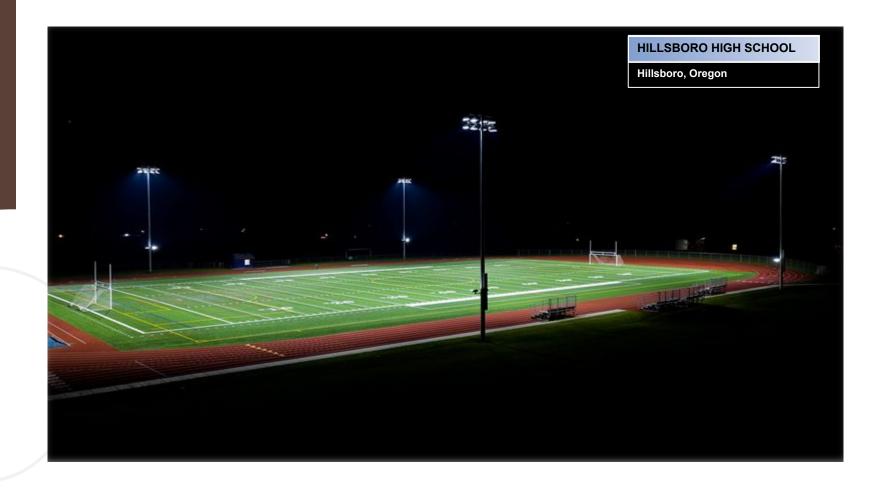
Photometric Planning / Foot Candle Review



Photometric Planning
/ Foot Candle at STC
Property Lines



## Similar Field Light Installations – Spill / glare control



#### Field Lighting — Photos of similar light poles









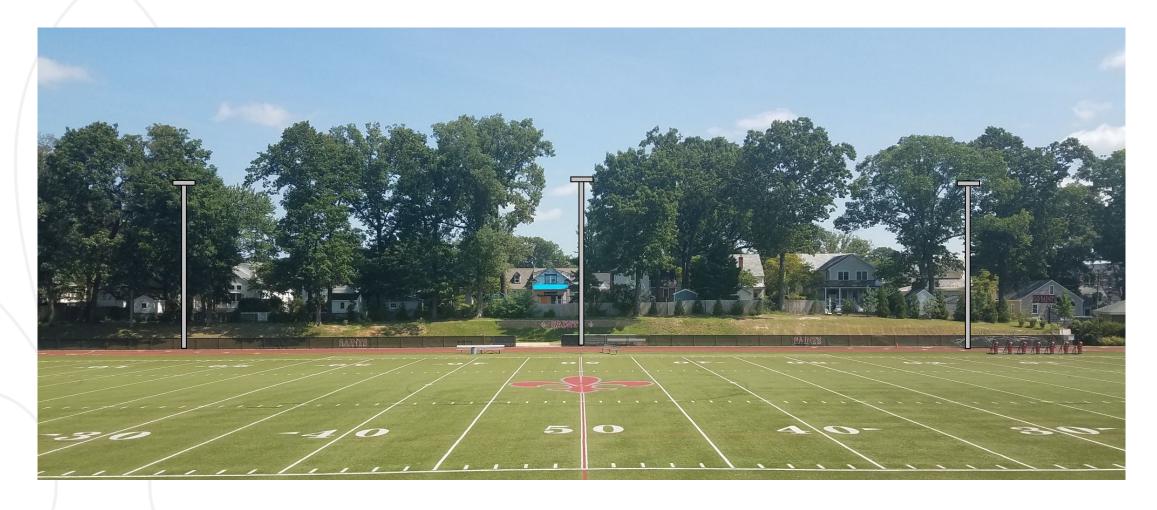
Close-up

#### Field Lighting – Knowles Field (approximate location and view of poles)



Two 80' poles located on the south side of the field

#### Field Lighting – Knowles Field (approximate location and view of poles)



Three 60' poles located on the north side of the field

### Field Lighting – Jacobs/Massey Field (approximate location and view of poles)





1<sup>st</sup> base line 3<sup>rd</sup> base line

The infield area includes two 60' poles and two 70' poles.

#### Field Lighting — Jacobs/Massey Field (approximate location and view of poles)



Left Field Right Field

Three outfield area includes three 70' poles.

# STC Field Lighting Planned Use & Communication

#### Competition:

Knowles Field Jacobs/Massey Field

Football Baseball

Lacrosse Soccer

Soccer

Track & Field

**Competition events** – the total number of competition events utilizing field lighting past 8:00 p.m. is limited to fifteen (15) annually by the SUP ordinance.

#### Practice:

#### **Knowles, Jacobs/Massey Fields**

**All Sports** – routine early evening use of field lights between 5:00 – 8:00 p.m. late fall and early spring (expected use is approximately 20-25 evenings per year)

#### Communication:

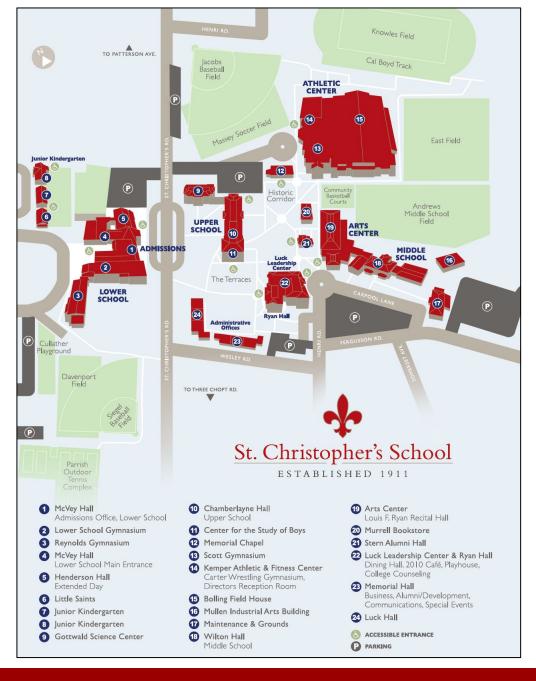
#### STC will communicate evening competition events in advance by:

- Posting calendar of evening athletic events on the STC website fall schedule by June 15th / spring schedule by January 15th, annually;
- Posting reminders of evening competition events to social media (such as Nextdoor, Twitter, Instagram and Facebook);
- Direct e-mail reminders to the President of the Westhampton Civic Association.

# STC Field Lighting Event Management

St. Christopher's is aware of the need to manage **parking** and traffic flow for those evening events with the highest level of attendance, primarily certain football games.

The campus has a total of **362 on campus parking spaces** (including 14 handicap spaces). Most of these spaces would be unused and available for evening games. The school will engage parking / traffic support (i.e. – RMC Events) for those games with significant attendance expected. In addition, the school will assess the availability to contract nearby lots for usage during large events.



Photometric Planning / Foot Candle Review

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#### Questions – Ordinance 2022-019

**Planning Commission** 

February 7, 2022



Educating Boys For Life



Located between Knowles (football) and Jacobs (baseball) fields, STC's planned **Community Pavilion** will provide a permanent gathering area to support outdoor activities including athletics, summer camp, classroom and other co-curricular gatherings.

The facility design is consistent with other campus facilities and will include:

- Concession (food) area
- Concession (bookstore) area
- Covered terrace seating area
- Men's and women's restrooms





