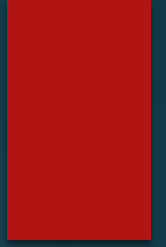




John George
Associates Inc



Holy Cross Artificial Turf Field + Synthetic Track



Track and Fields



- ▶ TRACK
- ▶ 8 Lane Track
- ▶ High Jump
- ▶ Long Jump, Triple Jump
- ▶ Pole Vault



- ▶ POTENTIAL FIELD MARKING
- ▶ CFL Football
- ▶ FIFA International Soccer
- ▶ Rugby Pitch
- ▶ Field Lacrosse
- ▶ Field Hockey



Benefits of Artificial Turf Fields

- ▶ The fields can be used continuously, seven (7) days a week without rest or repair; immediately following storms, and in all seasons
- ▶ This eliminates the primary issue with natural turf fields – that are often not available for use in the spring and fall



Benefits of Artificial Turf Fields

- ▶ Artificial turf fields are safe and predictable to play on
- ▶ These fields will be built to the highest standards in the world using FIFA Premier testing and certification
- ▶ FIFA testing ensures physical characteristics such as ball roll and bounce, and head impacts meet high standards for quality and safety



Benefits of Artificial Turf Fields

- ▶ Artificial turf increases use over natural fields, therefore reducing the pressure on land development - and the need to construct new fields to serve growing populations
- ▶ There is an economic benefit to the City to attract tournaments and events when combined with the fields at Fleming, Thomas Stewart and Trent University



Environmental Benefits

- ▶ Artificial turf fields are environmentally friendly in a variety of ways
 - ▶ The new TPE and shock pad systems are 100% recyclable
 - ▶ Mowing with gas powered lawn mowers is eliminated
 - ▶ Artificial turf does not require irrigation
 - ▶ In other words no water from the Municipal system is required
 - ▶ Fertilizers and chemicals are eliminated from entering into the watershed



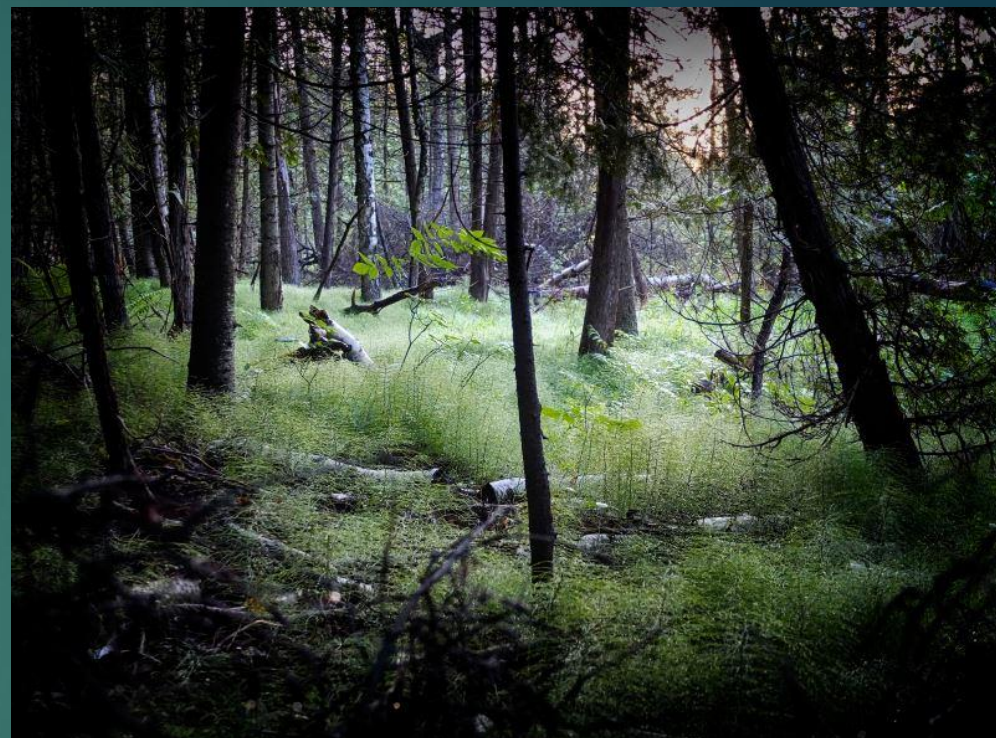
Harper Park

- ▶ Landscape Architect, City, and School Board had a meeting and presentation with Harper Park stakeholders, and members of the adjacent property residents - July 27, 2017
- ▶ The project was presented using many of the slides included in this presentation
- ▶ One focus was on impacts to Harper Park and how artificial turf systems will provide cleaner water into the system. Much cleaner than what occurs at present from the natural field
- ▶ It was noted that the culvert depositing into the park would be improved



Harper Park – Westview Village

- ▶ Lighting was discussed at length
- ▶ Focus was on zero cut-off at the edges of the field
- ▶ Efficiency of new LED systems
- ▶ Dark sky initiatives lighting (no light spilled into the atmosphere)
- ▶ Custom design of fixtures near the existing residential buildings



LED Sports Lighting



LED Sports Lighting

- ▶ LED Sports lighting is a new development with only a handful of fields currently constructed in Ontario
- ▶ LED lighting is more durable than HID (older high intensity discharge) lights
LED light has no electrode or filament and is not prone to shock or vibration
- ▶ LED lights can continue to operate for over 100,000 hours without any depreciable degradation of light compared to HID at 15,000 to 25,000 hours
- ▶ LED light output depreciates much more slowly than HID



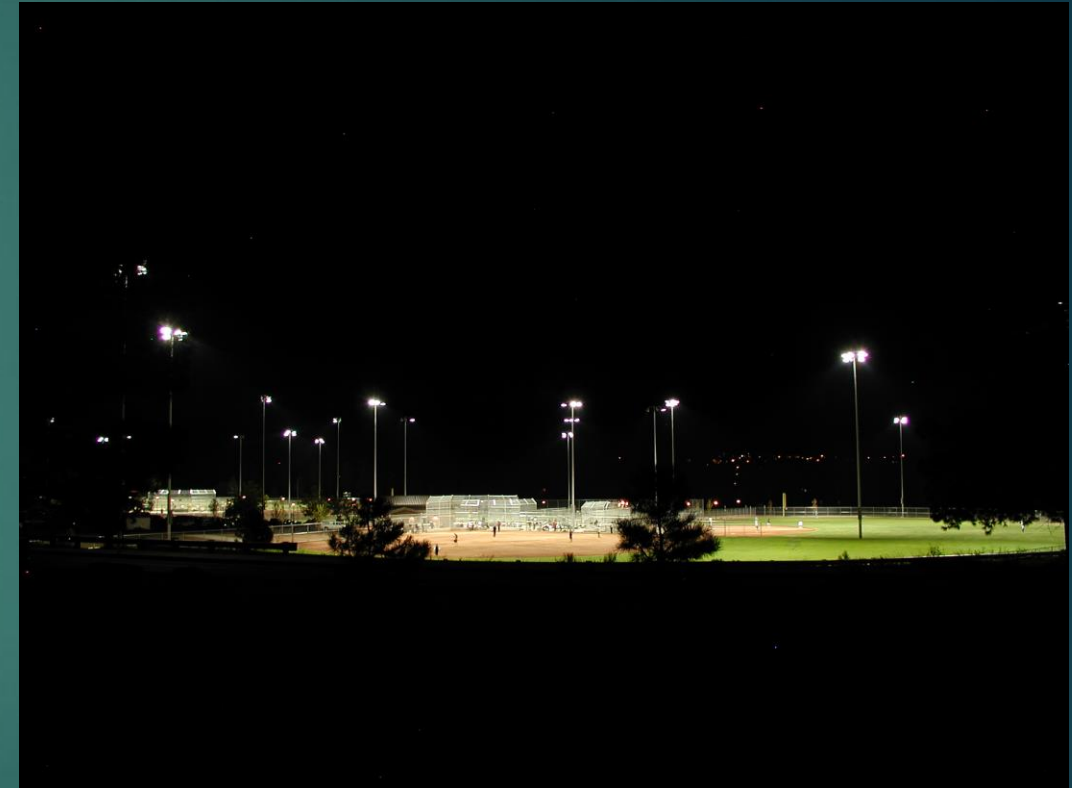
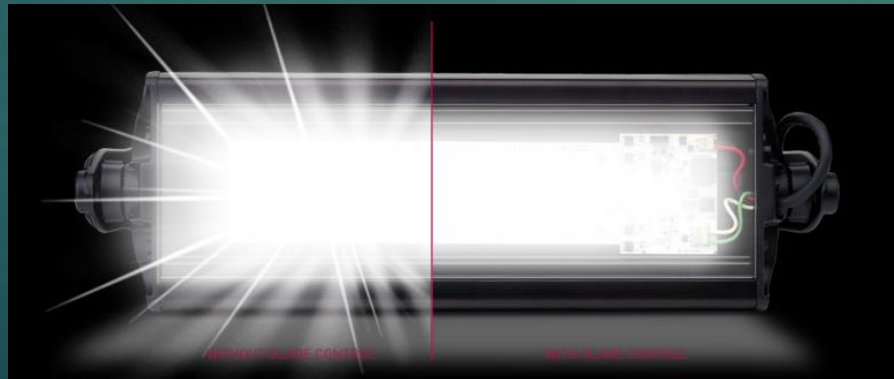
LED Sports Lighting

- ▶ Environmental and Local Impact
 - ▶ LED is far more energy efficient than HID and is instant on with no warm up period
 - ▶ LED provides a purer colour output that simulates daylight unlike HID which can vary and tend to be warmer in colour. It is superior with respect to visibility
 - ▶ Modern lighting systems can cut-off very sharply at the edges of a field or track – to dark within a few metres. They also have minimal light spillage

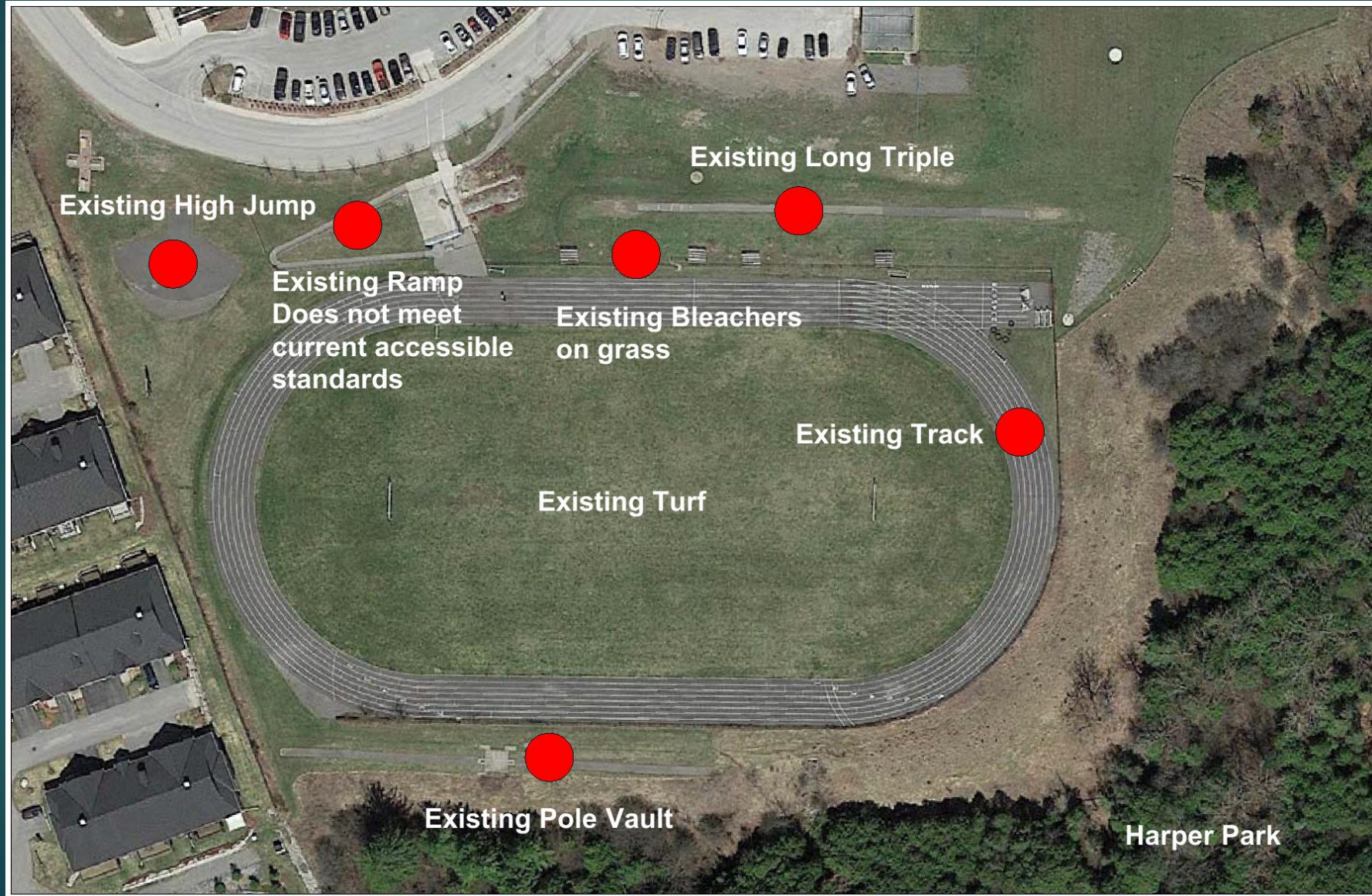


LED Sports Lighting

- ▶ Environmental Impact
 - ▶ Modern lighting systems put light where it is needed – not into the night sky and surrounding neighbourhood with precise light targeting
 - ▶ Modern sports lighting minimizes glare and spill, and are interference free



Existing Site







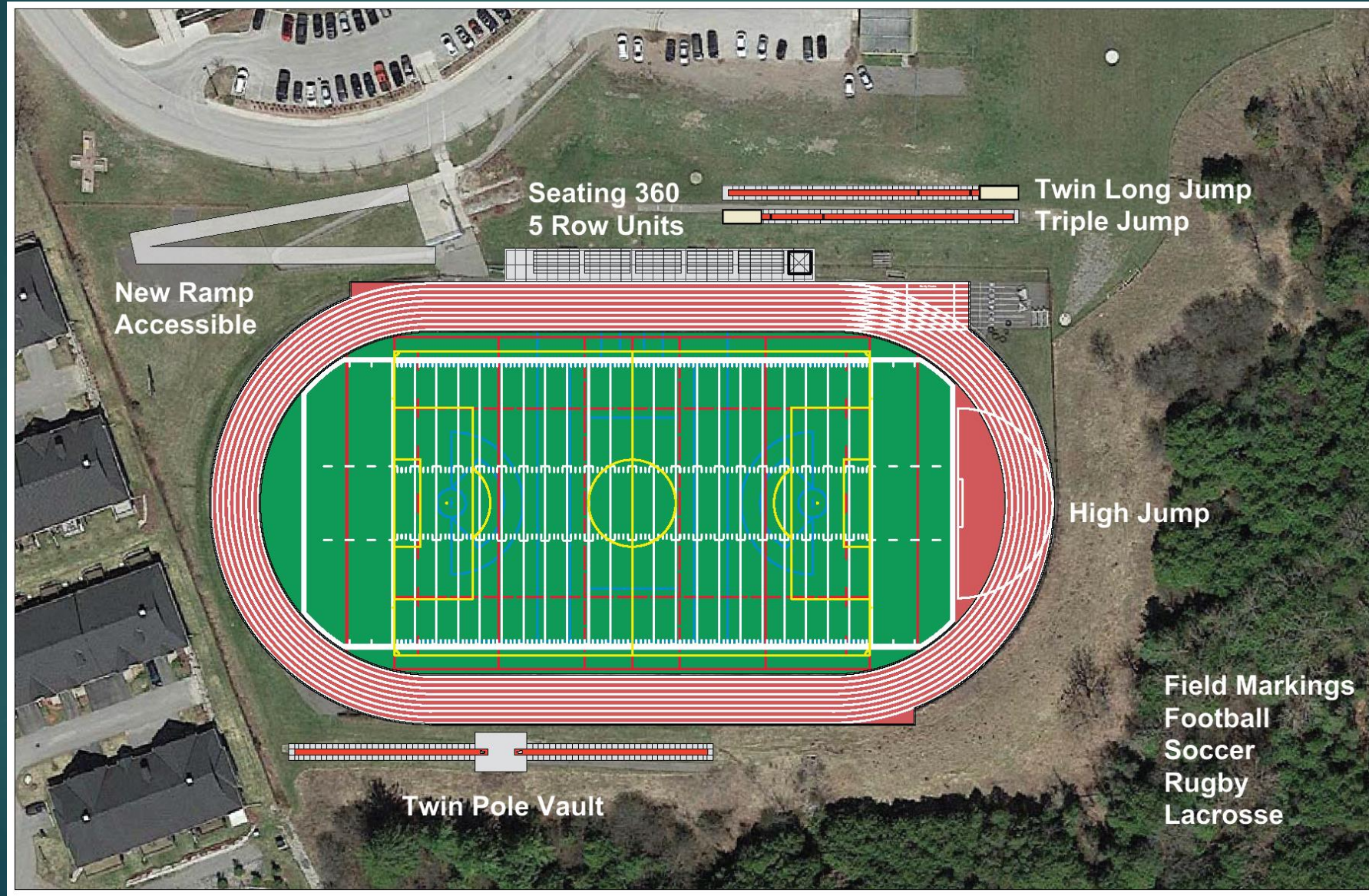




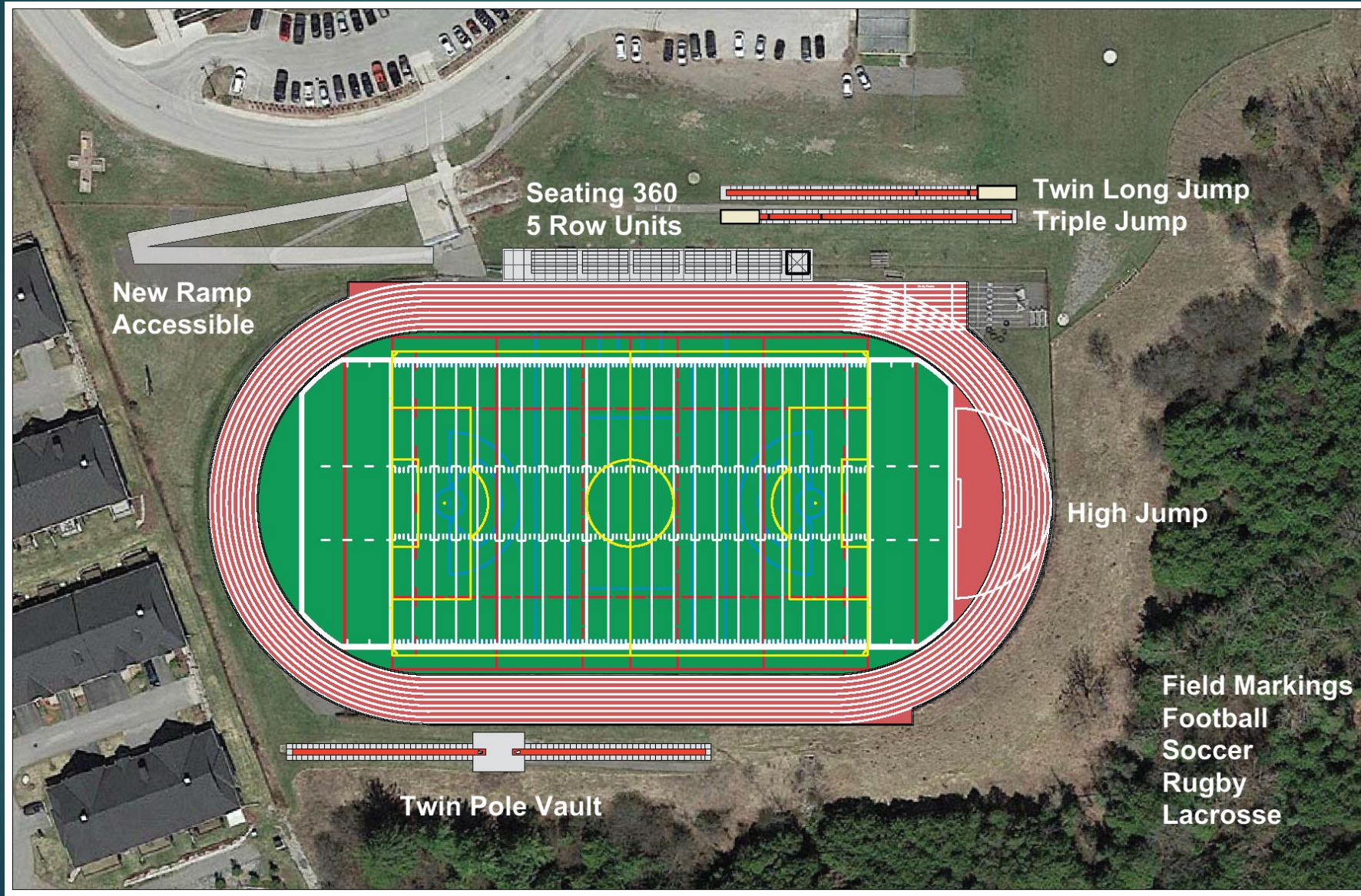


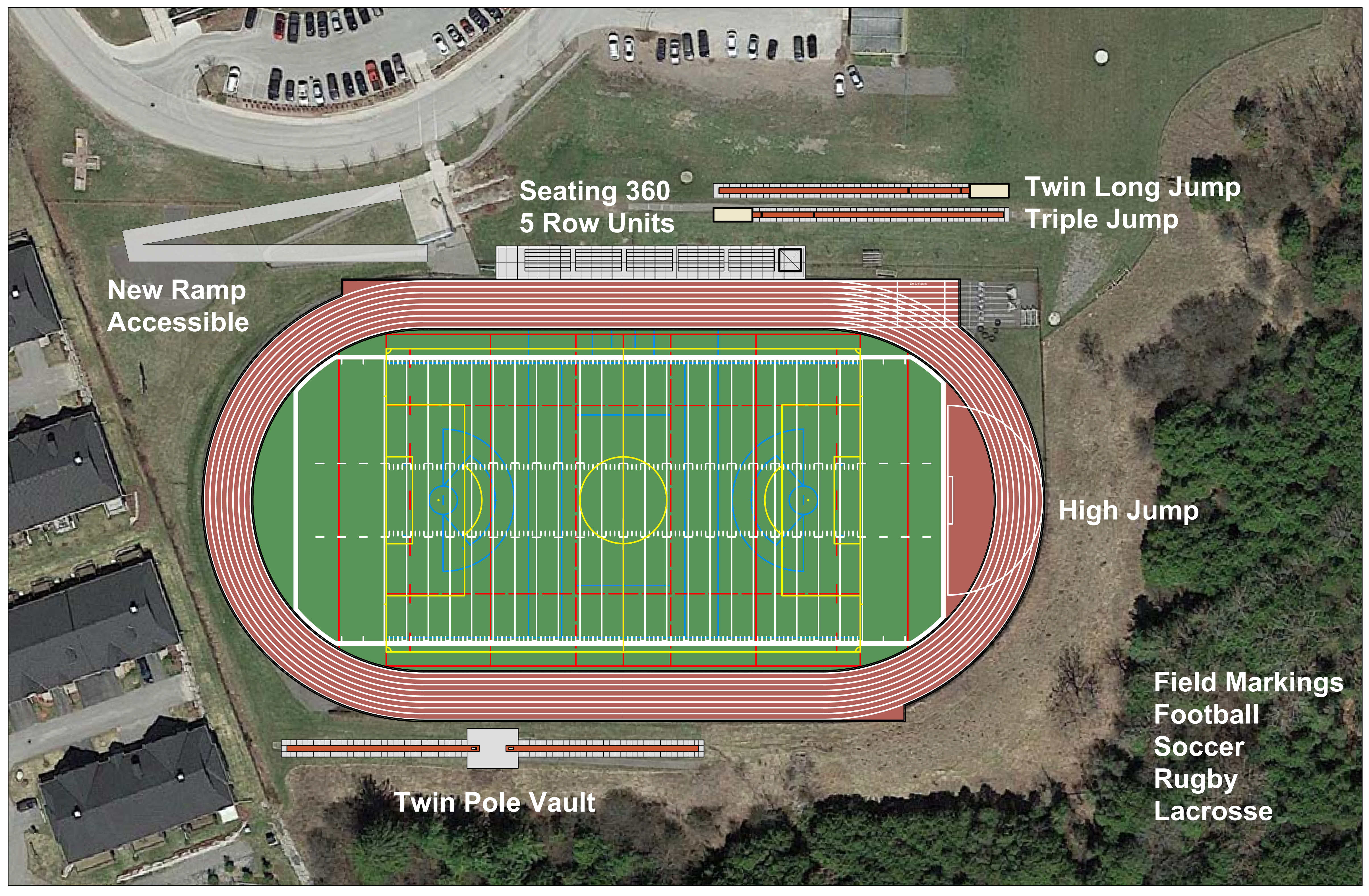


Site Plan



Site Plan



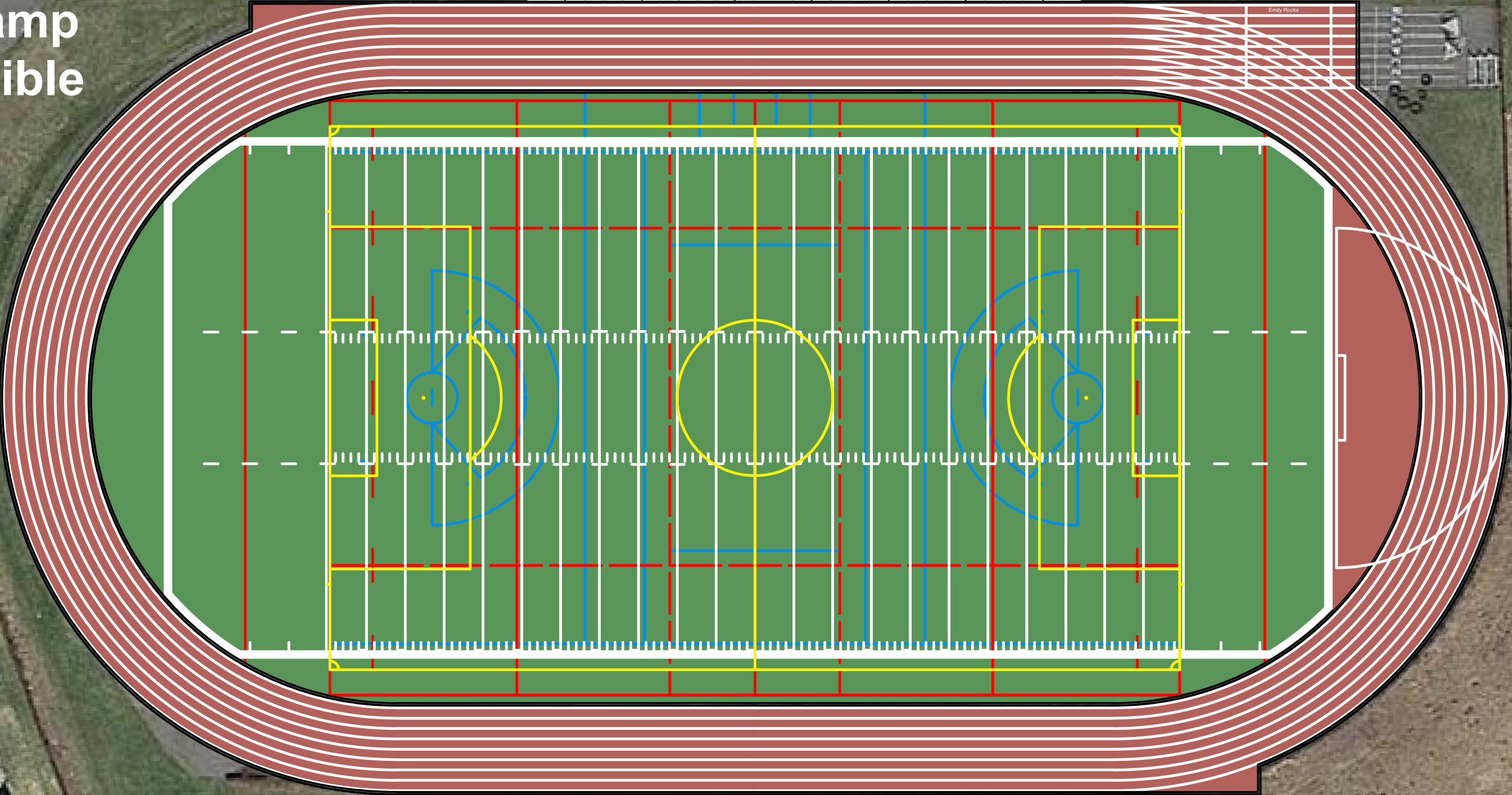


Seating 360
5 Row Units



Twin Long Jump
Triple Jump

New Ramp
Accessible



High Jump



Twin Pole Vault

Field Markings
Football
Soccer
Rugby
Lacrosse

Schedule and Next Steps

- ▶ Commence project – August 2018
- ▶ Consultation with user groups, school and Harper Park stakeholders
- ▶ Public open house – end of September 2018
- ▶ Approvals - November 2018
- ▶ Design and Working Drawings ready for tender – end of 2018
- ▶ Tender project February 2019
- ▶ Award contract mid March 2019
- ▶ Start construction April – May 2019
- ▶ Complete construction – September to October 2019