

Hopkinton Field & Track Committee

2016 Petitioned Warrant Article Information presentation

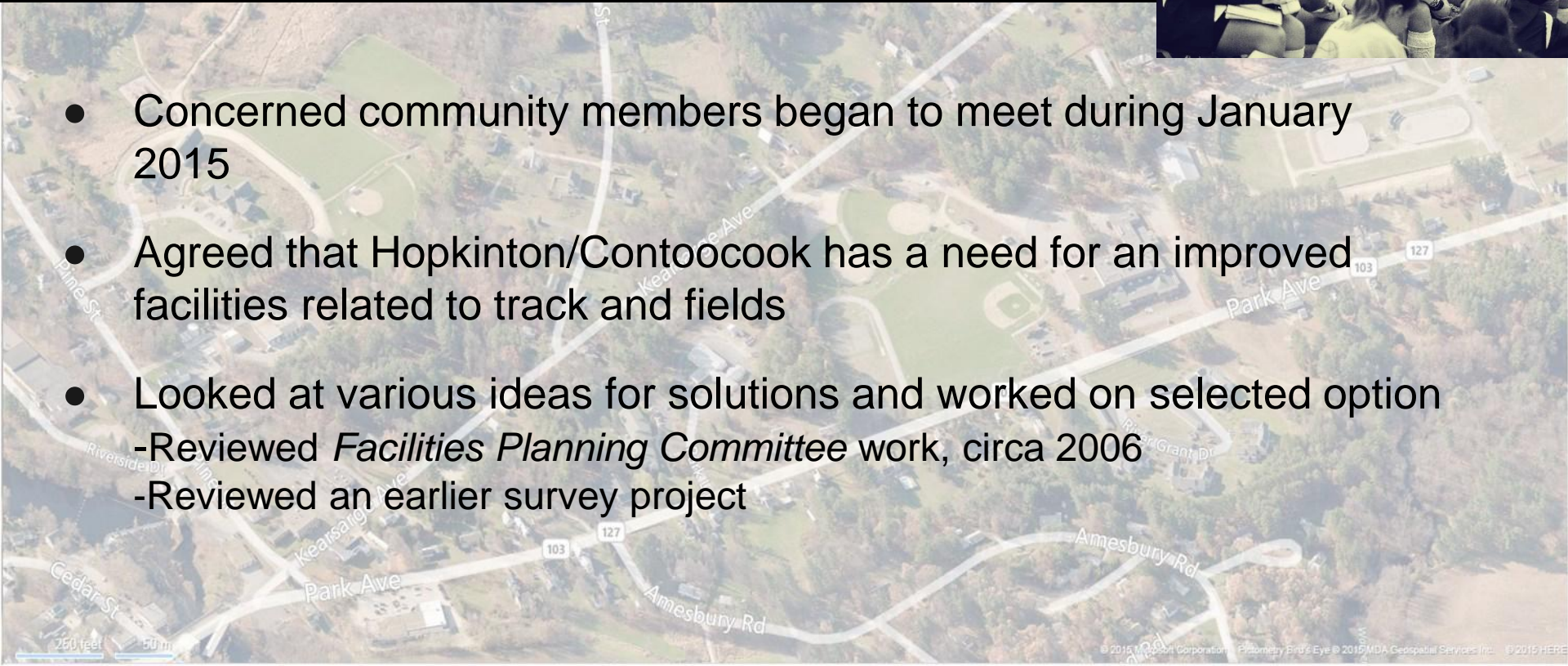
Scott Zipke, soccer coach
Lance Whitehead, school architect



Committee history



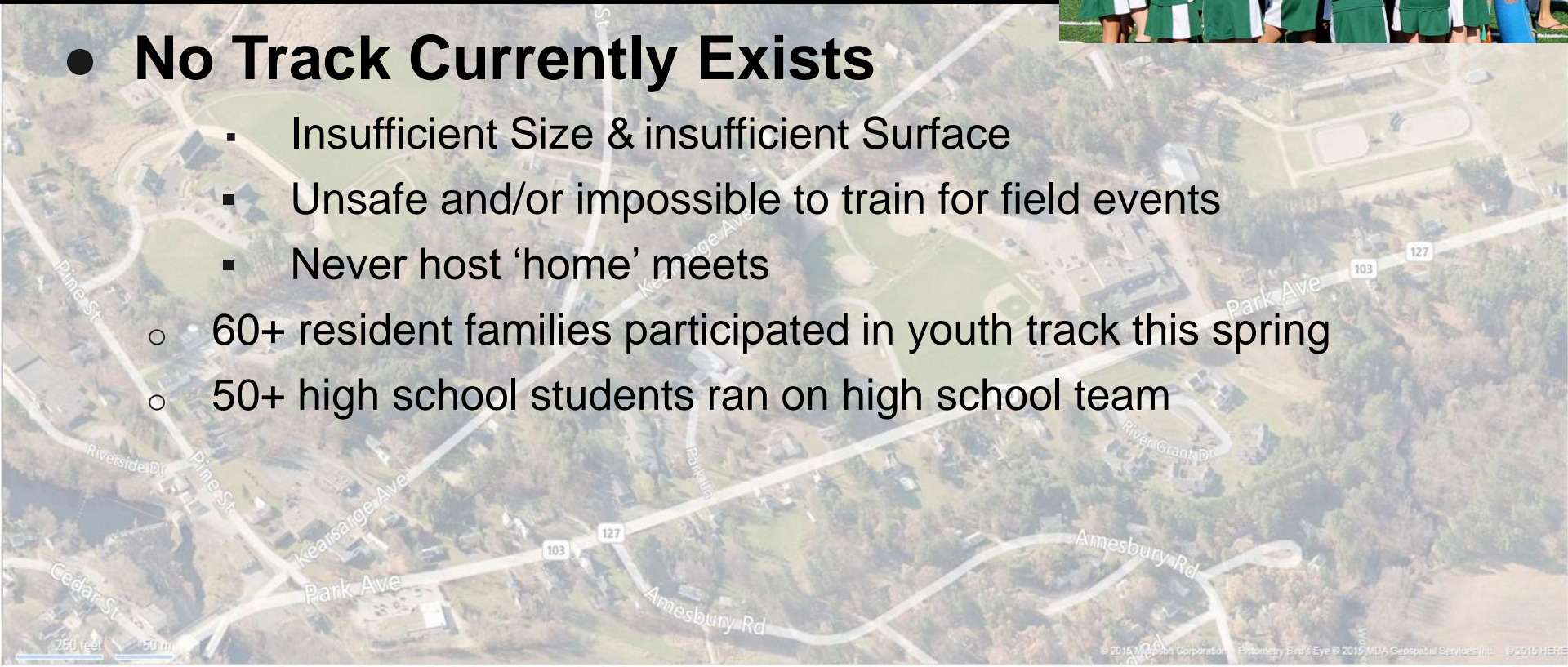
- Concerned community members began to meet during January 2015
- Agreed that Hopkinton/Contoocook has a need for an improved facilities related to track and fields
- Looked at various ideas for solutions and worked on selected option
 - Reviewed *Facilities Planning Committee* work, circa 2006
 - Reviewed an earlier survey project



What's the Problem?

- **No Track Currently Exists**

- Insufficient Size & insufficient Surface
- Unsafe and/or impossible to train for field events
- Never host 'home' meets
 - 60+ resident families participated in youth track this spring
 - 50+ high school students ran on high school team

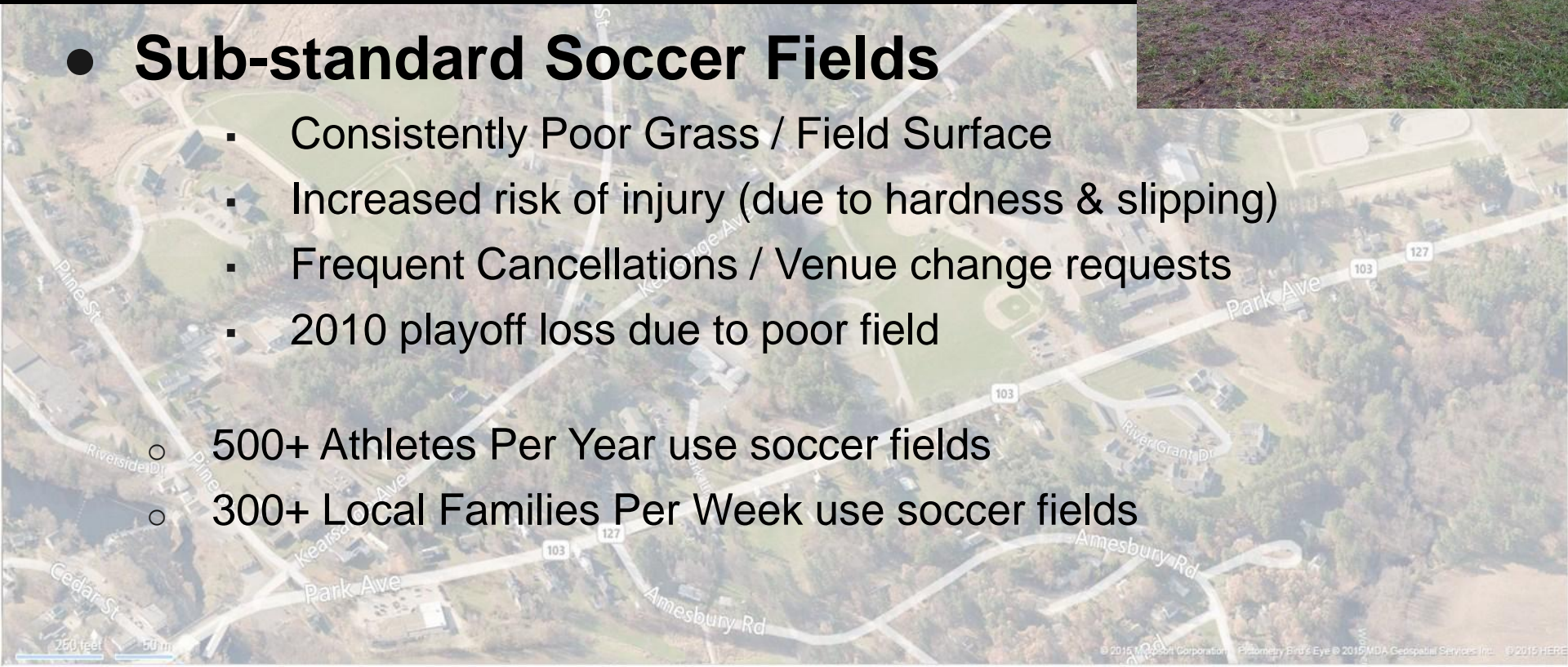


What's the Problem?

● Sub-standard Soccer Fields

- Consistently Poor Grass / Field Surface
- Increased risk of injury (due to hardness & slipping)
- Frequent Cancellations / Venue change requests
- 2010 playoff loss due to poor field

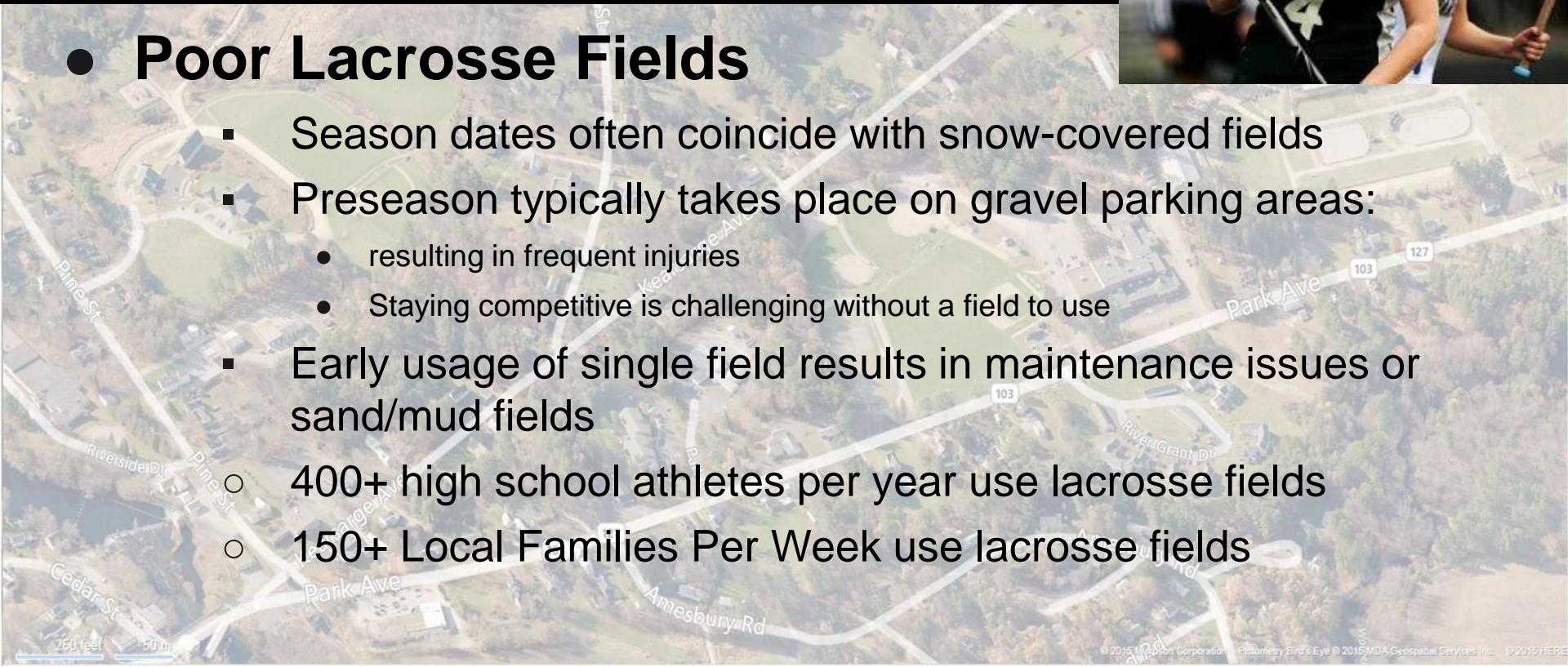
- 500+ Athletes Per Year use soccer fields
- 300+ Local Families Per Week use soccer fields



What's the Problem?

● Poor Lacrosse Fields

- Season dates often coincide with snow-covered fields
- Preseason typically takes place on gravel parking areas:
 - resulting in frequent injuries
 - Staying competitive is challenging without a field to use
- Early usage of single field results in maintenance issues or sand/mud fields
 - 400+ high school athletes per year use lacrosse fields
 - 150+ Local Families Per Week use lacrosse fields

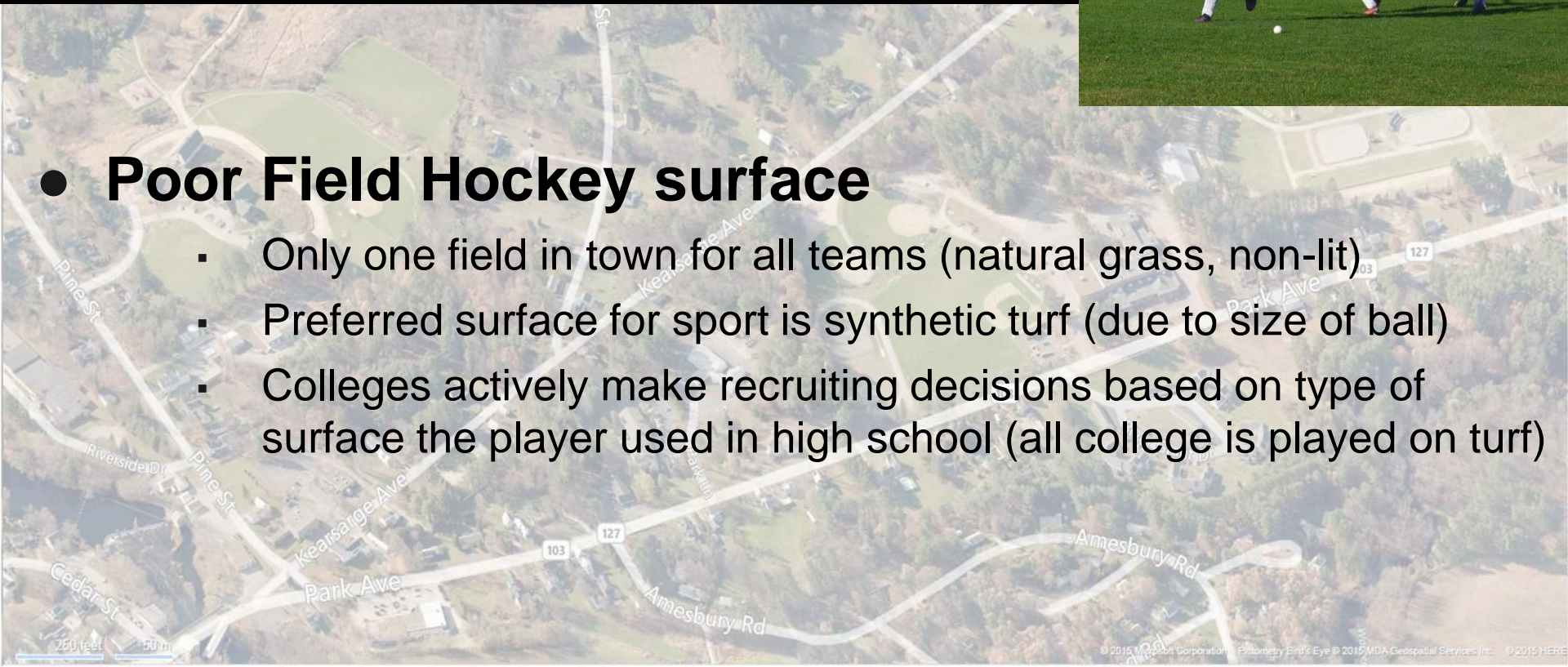


What's the Problem?



● Poor Field Hockey surface

- Only one field in town for all teams (natural grass, non-lit)
- Preferred surface for sport is synthetic turf (due to size of ball)
- Colleges actively make recruiting decisions based on type of surface the player used in high school (all college is played on turf)



What's the Problem?

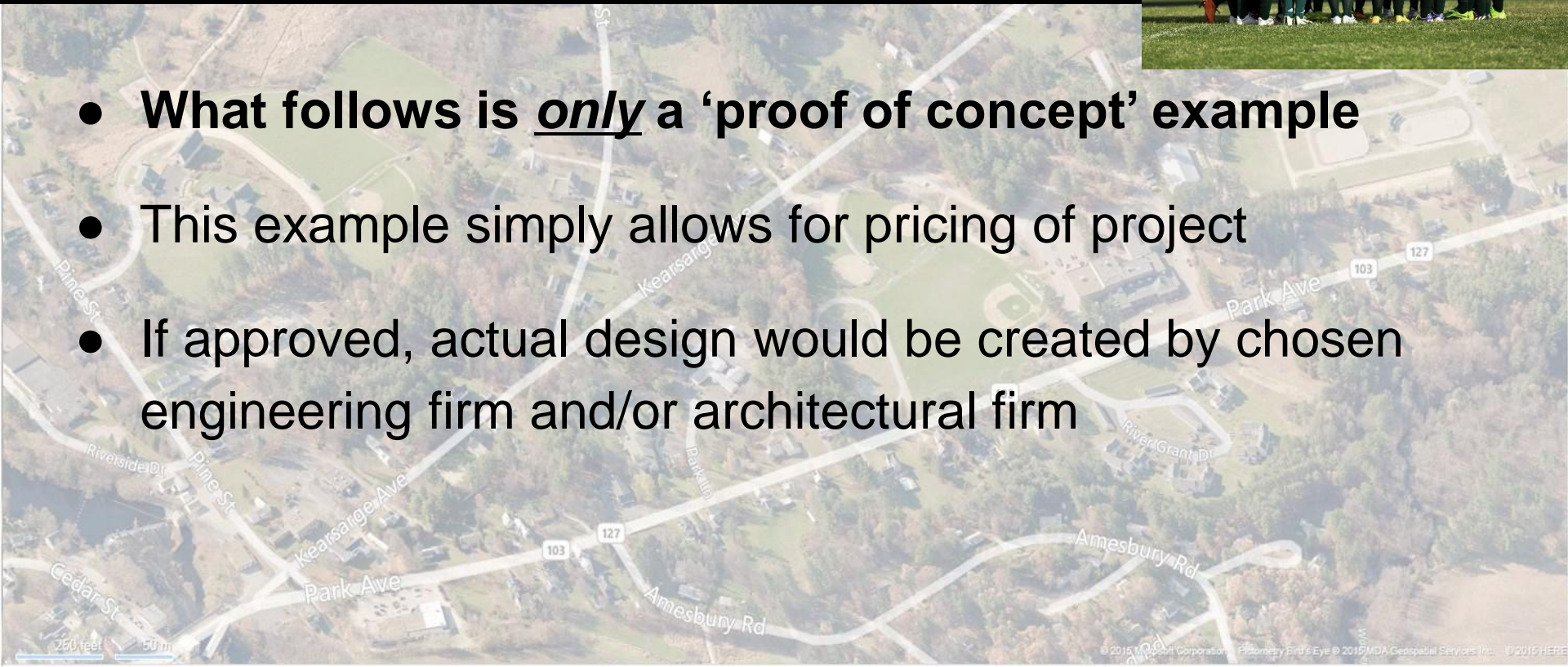


- **Deteriorating Tennis Courts**



Proposed Solution

- What follows is only a 'proof of concept' example
- This example simply allows for pricing of project
- If approved, actual design would be created by chosen engineering firm and/or architectural firm





Proposed Solution - design



Proposed Solution – cost detail

Conceptual Opinion of Probable Cost

Friday, October 02, 2015

Construction Costs

General Conditions

Construction Manager Fees

Sitework / Excavation / Retaining

Baseball Field

Pedestrian Access Way

Turf Field

Field Underdrain System

Bleachers, 300 seat

Tennis Court Upgrades w/ basketball hoops

Competition Field and Track Lighting System

8 lane track, poured in Rubber

Track and Field Fence (48" high)

Baseball Backstop and Hiugh Fences

Replacement Kicking Wall / Softball Wall

Site Utilities

Construction Contingency - 10%

Subtotal - Construction Costs

\$2,854,500

Soft Costs

Insurance Fees

Bond Council

Legal Council (construction related contracts)

Local Permitting Fees

State Permitting Fees (Site Specific)

Power company back charges

Telephone and Data Connection

Architectural/Engineering Design Fees

Architect, Civil, Electrical, Structural Engineers

Geotechnical Engineer

Survey

Other Soft Costs

Owner's Contingency

Maintenance and Field Equipment

Construction Inspection & Testing (If not included in items above)

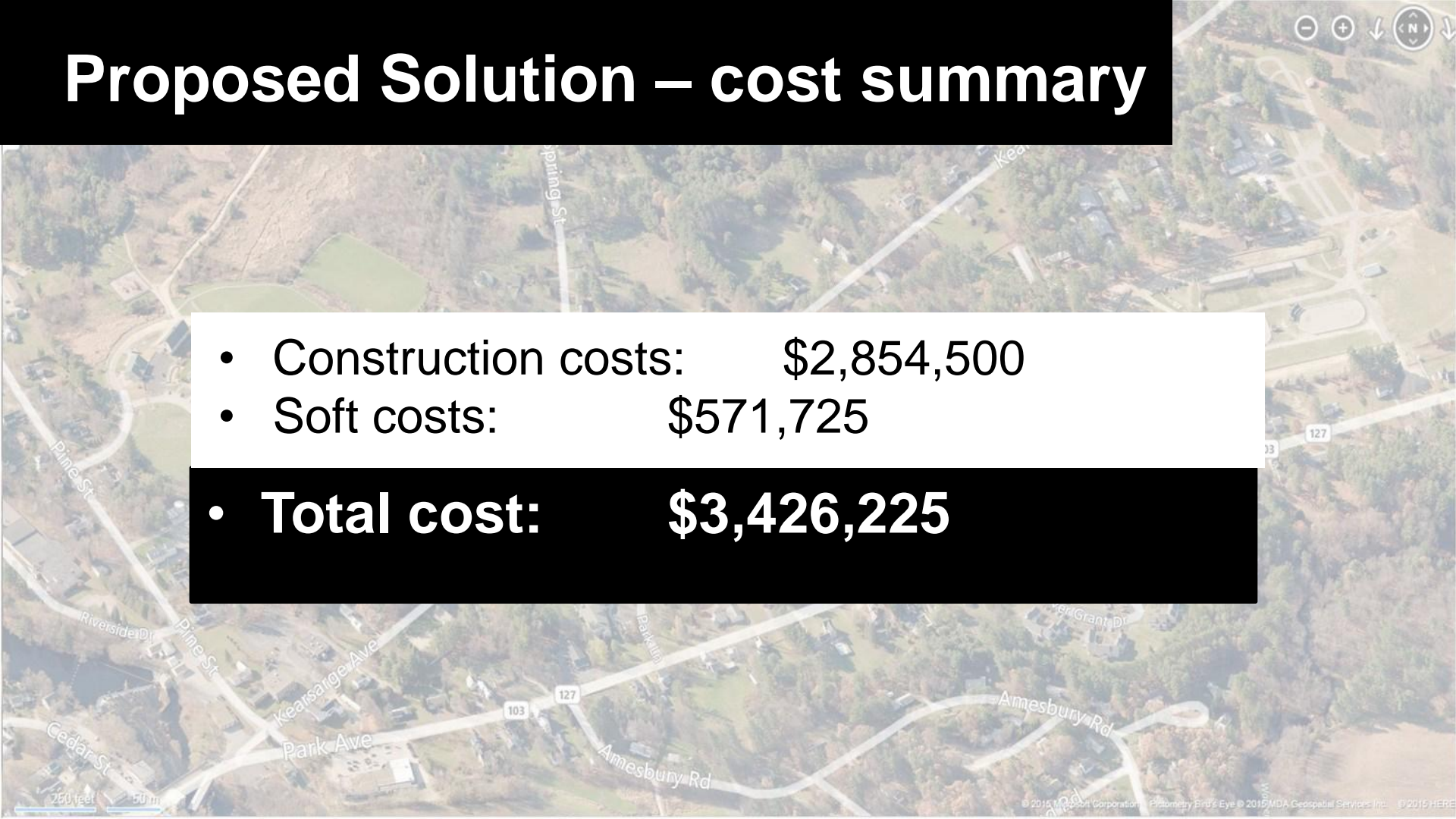
Inflation for 2016 Construction - 5%

Subtotal - Soft Costs

\$571,725

Proposed Solution – cost summary

- Construction costs: \$2,854,500
- Soft costs: \$571,725
- **Total cost: \$3,426,225**



Proposed Solution - cost

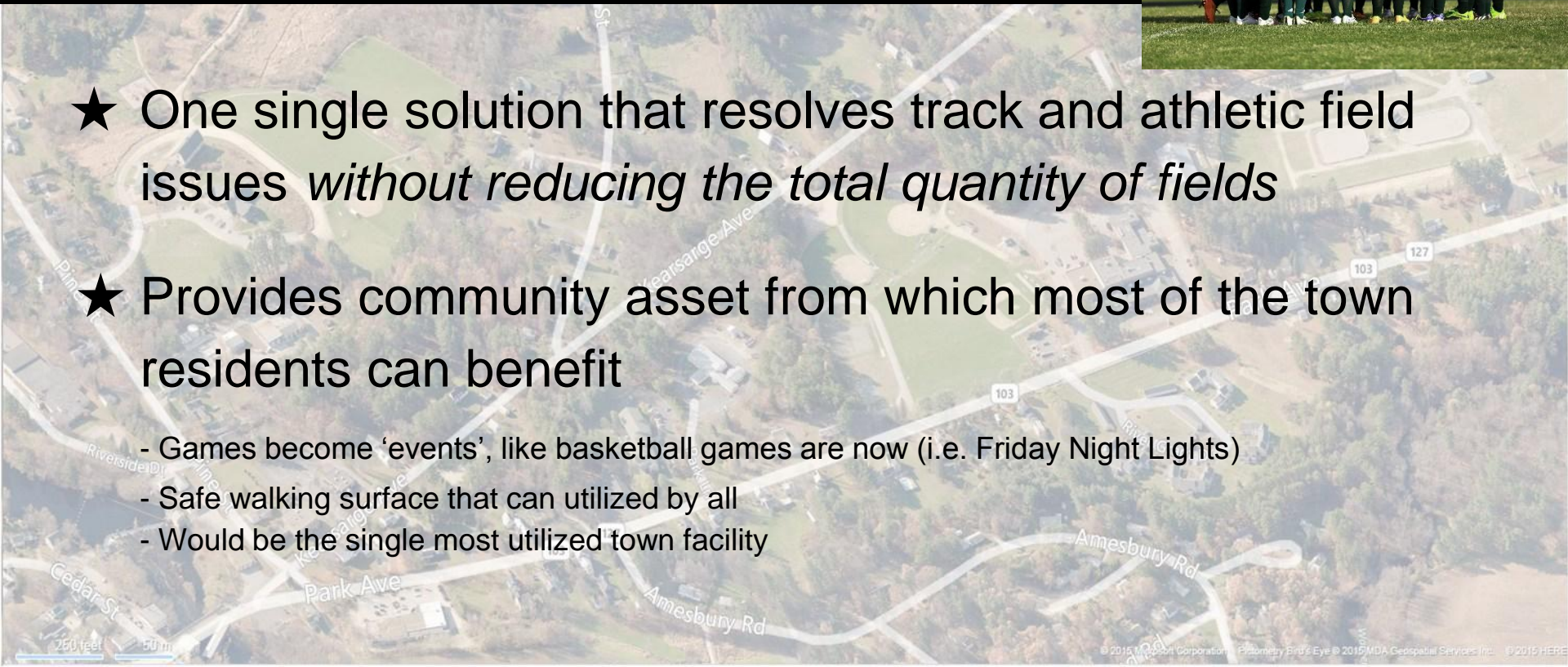
Estimated yearly tax impact (approximate as of 2/5/16):

	\$200,000 home	\$300,000 home	\$400,000 home
1st year of bond (\$0.48 per \$1000)	\$96	\$144	\$192
Last year of bond (\$0.29 per \$1000)	\$58	\$87	\$116

Proposed Solution - benefits



- ★ One single solution that resolves track and athletic field issues *without reducing the total quantity of fields*
- ★ Provides community asset from which most of the town residents can benefit
 - Games become 'events', like basketball games are now (i.e. Friday Night Lights)
 - Safe walking surface that can utilized by all
 - Would be the single most utilized town facility



Community Benefits



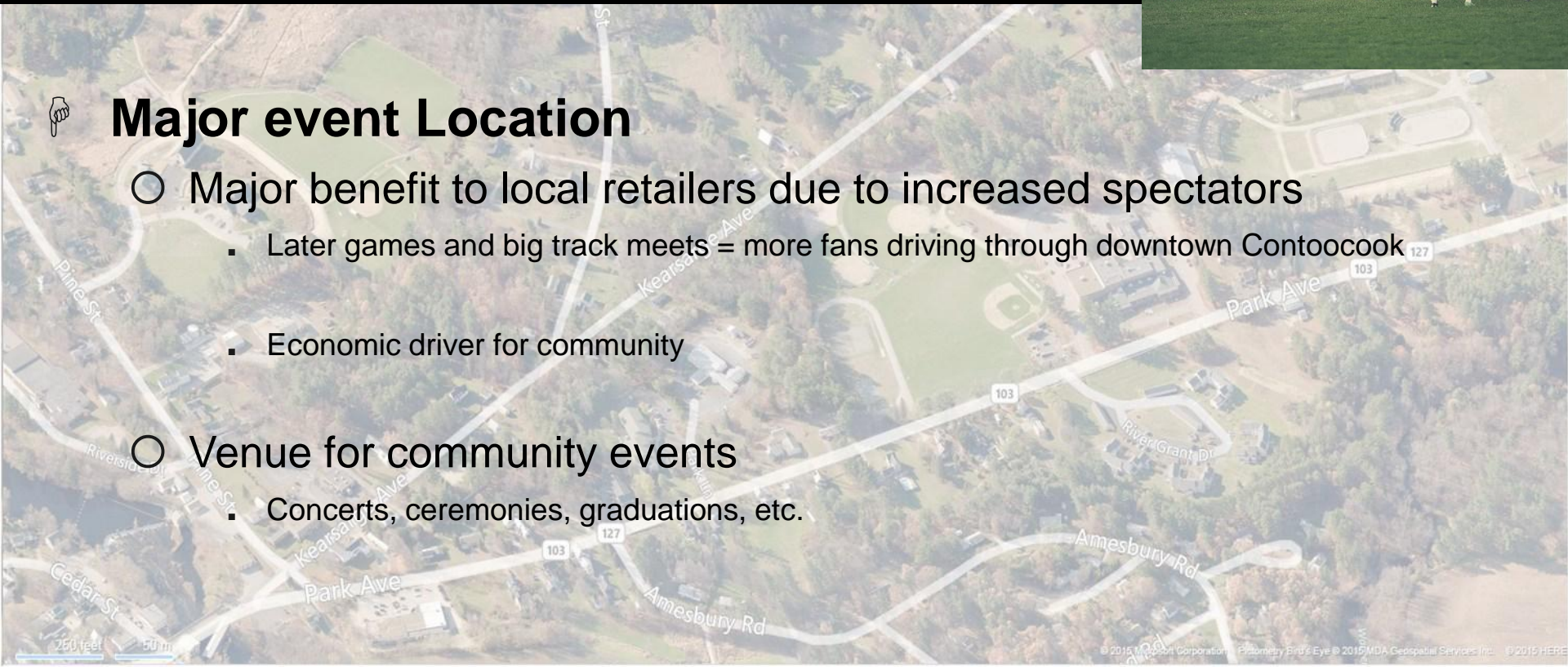
Major event Location

○ Major benefit to local retailers due to increased spectators

- Later games and big track meets = more fans driving through downtown Contoocook
- Economic driver for community

○ Venue for community events

- Concerts, ceremonies, graduations, etc.



Why a synthetic field and lights?



★ Synthetic turf field, with lights, allows extended use

- Longer daily use, all weather, early and later seasons

★ Synthetic turf can withstand approximately 5 times as much use as natural grass (Approximately 3000 hours/year versus natural grass at approximately 700 hours/year: syntheticturfCouncil.org/)



Why a synthetic field and lights?



★ Highly used by many ages and sports

★ Savings realized:

- No need to water, mow, line or rotate out-of-use this new field
- No urgent need for development of new field at Houston Fields
- Less urgent need for drainage fix of Houston Field #1



Why a synthetic field and lights?



★ Health & environmental benefits to a turf field

- Softer surface = less impact injuries, such as concussion
- No fertilizer required
- “Health risk assessment studies suggested that **users of artificial turf fields, even professional athletes, were not exposed to elevated risks.** Preliminary life cycle assessment suggested that the **environmental impacts of artificial turf fields were lower than equivalent grass fields.”**

Cheng, Hefa, Yuanan Hu, and Martin Reinhard. "Environmental and Health Impacts of Artificial Turf: A Review." *Environmental Science and Technology* 48 (2014): 2114-129. Print.

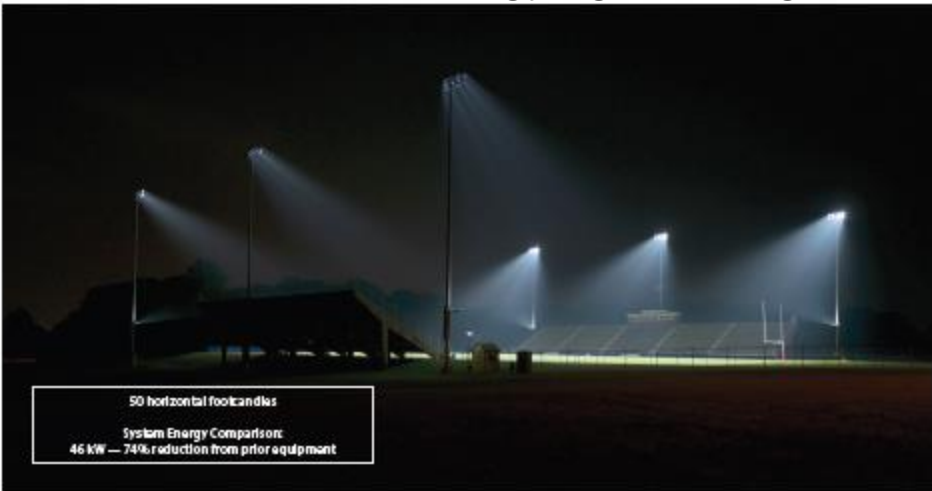
LED lights - faq



Older HID technology light spillage



New LED technology light spillage



Synthetic field and lights - faq



★ Cost to operate lights

- LED lights are projected to cost less than \$10/hr

★ Longevity

- Typical turf warranty is 8 years, fields actually last much longer
- Replacement cost is included in \$50,000/year maintenance cost



Synthetic field - testimonials

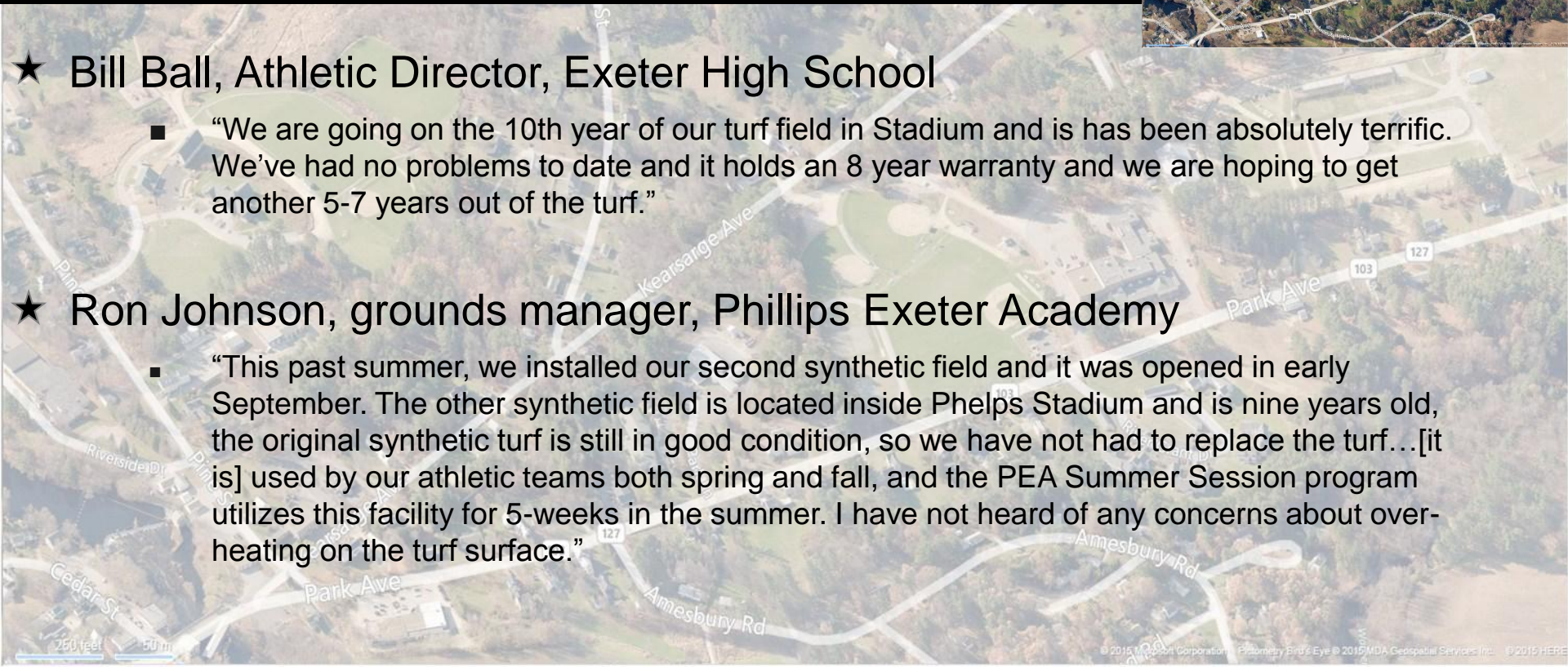


★ Bill Ball, Athletic Director, Exeter High School

- “We are going on the 10th year of our turf field in Stadium and is has been absolutely terrific. We’ve had no problems to date and it holds an 8 year warranty and we are hoping to get another 5-7 years out of the turf.”

★ Ron Johnson, grounds manager, Phillips Exeter Academy

- “This past summer, we installed our second synthetic field and it was opened in early September. The other synthetic field is located inside Phelps Stadium and is nine years old, the original synthetic turf is still in good condition, so we have not had to replace the turf...[it is] used by our athletic teams both spring and fall, and the PEA Summer Session program utilizes this facility for 5-weeks in the summer. I have not heard of any concerns about over-heating on the turf surface.”



Thank you

