

South Whidbey School District

Athletic Field Options
Community Input Meeting

10.02.2024



AGENDA

- **Introductions**
- **Field Use**
- **Considerations**
- **Field Options**
- **Discussion**



October 2, 2024



ParametriX

ABSHER

INTEGRUS

A COLLABORATION OF YGH & INTEGRUS ARCHITECTURE

fora

LANDSCAPE
ARCHITECTS

FIELD USE

- MS & HS PE Programs – 5 days a week, all day
- HS Athletics – Soccer, Football, Track & Field, Cross-Country
- MS Athletics – Soccer, Football, Track & Field, Cross-Country
- Community Events with Parks & Rec Dept.
- Emergency Helicopter Landing



CONSIDERATIONS

- Maintenance Required
 - Mowing – every 2-3 days in Fall + Spring
 - Fertilizer required for playability
 - Watering (irrigation maintenance)
 - Hole filling
 - Redo the Striping of Fields
 - Tracking dirt/grass clippings into the building
 - Limited use in Spring while waiting for field to be repaired in Summer
- Environmental Impact
- Health & Safety of Players
- Alternative Locations for Play/Practice required when field not usable



FIELD OPTIONS

- 3 Types of Athletic Fields
- Components of Natural Grass fields
- Components of Synthetic Turf fields
- Health and safety
- Benefits and Challenges
- Resource considerations
- Environmental impacts



Field Types

1. Sand Based Natural Grass

- Requires subdrainage / detention
- Requires irrigation system
- High nutrient needs / requirements
- High water use requirements
- High maintenance requirements
- Some playability in wet weather

2. Topsoil Based Natural Grass

- Less playable in wet weather
- Lower cost



Field Types

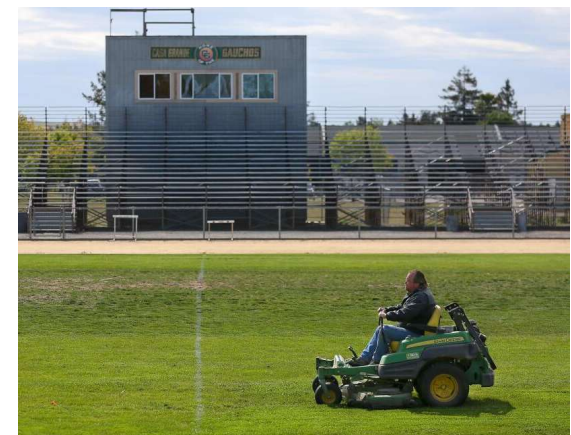
3. Synthetic Turf

- High initial resource requirements
- Requires subdrainage and detention (possibly additional stormwater treatment)
- Increased use and playability
- Long term replacement costs
- Environmental concerns



Natural Grass Fields

1. Compacted Subgrade and Drainage
2. Irrigation System
3. Well-Drained Sand
4. Athletic Field Seed
5. Fertilizer and Continual Maintenance



Synthetic Turf Fields

1. Base Layer and Drainage
2. Pad/ Impact Layer
3. Turf and Fibers
4. Infill Materials



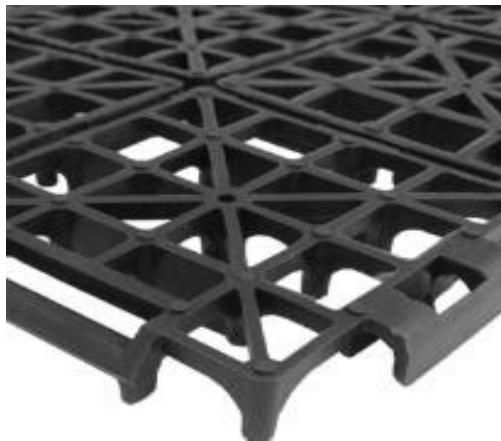
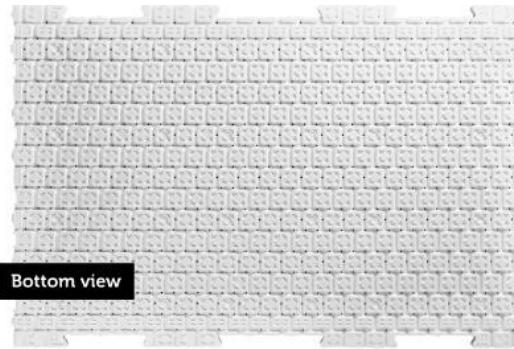
1. Base Layer, Drainage, Detention, and Treatment

- Clearing and haul off and grading
- Detention system
- Subdrainage
- Geotextile fabric for poorer soils
- Permeable crushed rock base course and top course



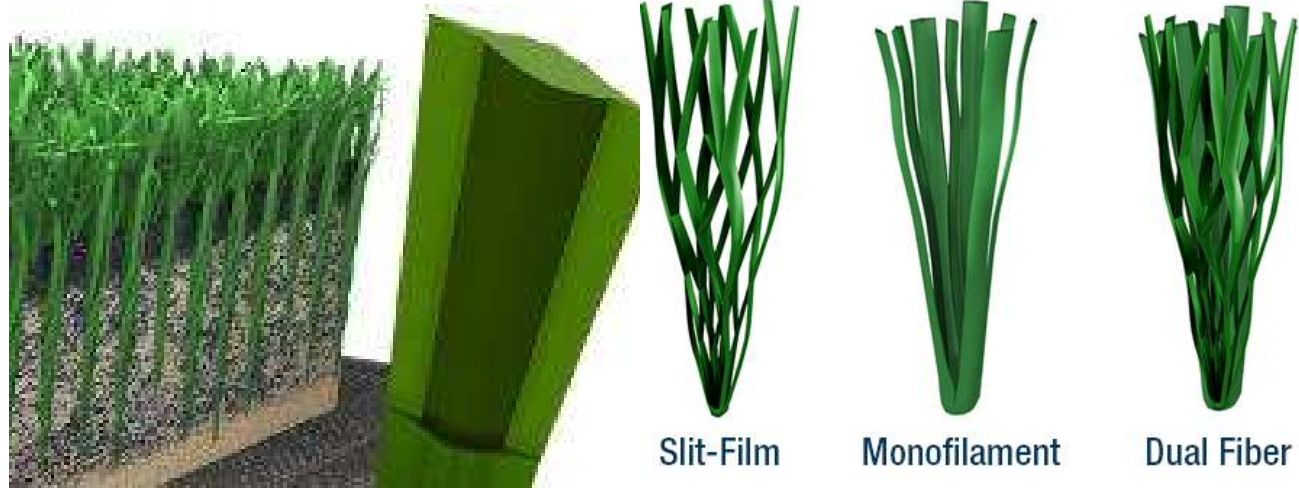
2. Pad / Impact Attenuation Layer

- E-layer
- Brock type foam pad
- ProPlay foam pad
- Rubber pads
- Other



3. Turf and Fiber Types

- Monofilament / Blade
- Slit Film
- Dual Fiber
- Thatch Layer / Root Zones
- Backing and Drainage



4. Infill Options

- SBR Tire Rubber
- Plastics, TPE / EPDM
- Cork
- Nut / Organics
- Wood Fibers
- Sand
- Coated Rubber
- Other

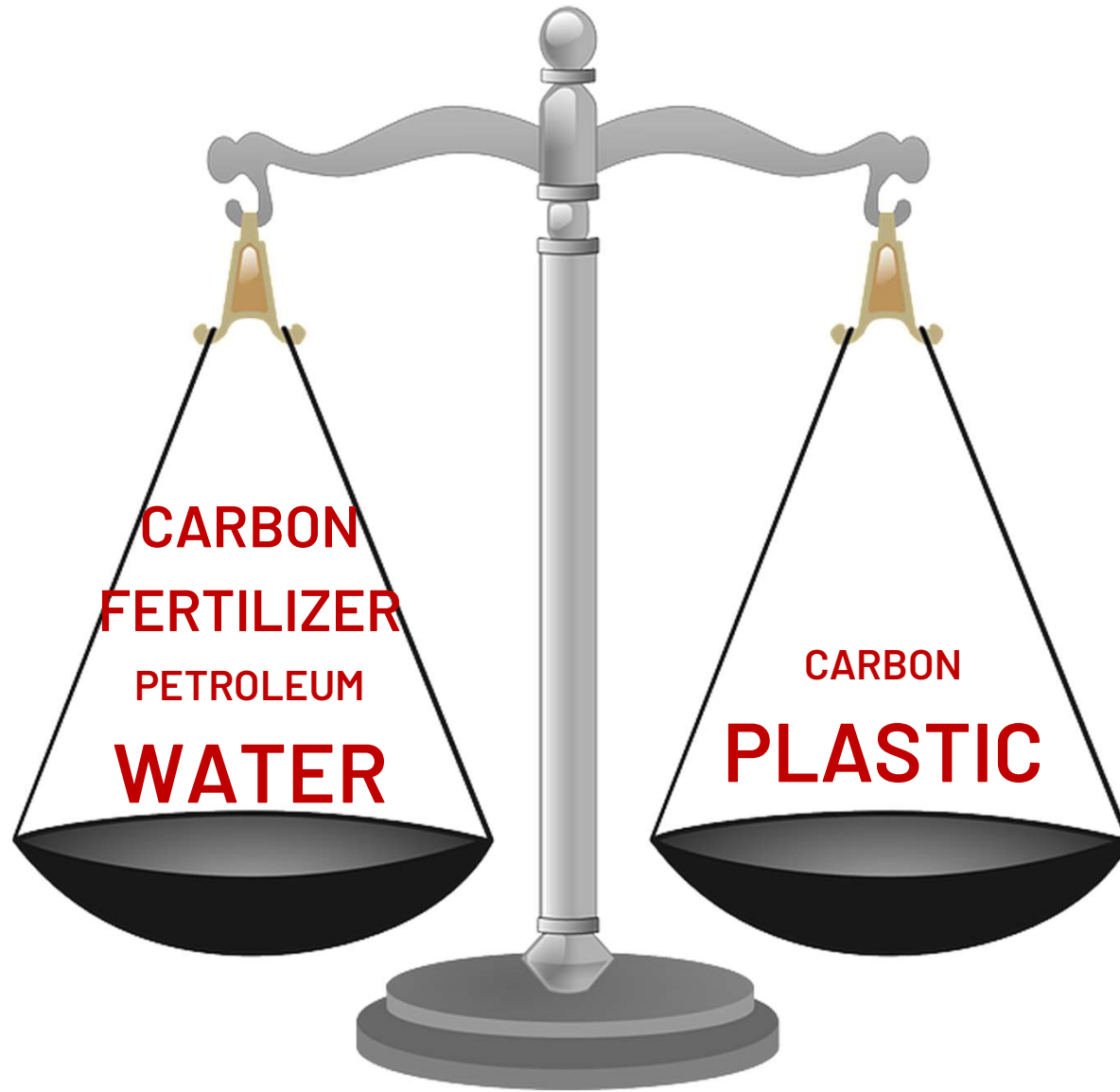


Current Topics

- Environmental issues
- Life cycle costs
- Drainage / treatment
- Lead
- PFAS
- 6 ppd (salmon)
- Microplastics
- Injury
- Concussions
- Other



	SAND-BASED NATURAL GRASS	SYNTHETIC TURF
Subdrainage / Detention	Yes	Yes
Upfront Cost	Medium	High
Maintenance Cost	High	Low
Replacement Cost	Low	High
Irrigation System	Yes	No
Nutrient Needs	High	Low
Continual Maintenance	High	Low
Water Use	High	Low
Playability / Use	Medium	High
Environmental Impacts	High	High



Life Cycle of Synthetic Turf

- Averages 10-15 years
- After that?
 1. Landfill: It is thrown out.
 2. Waste to Energy: It is incinerated to produce electricity or steam.
 3. Repurpose: It is reused somewhere else, like a batting cage.
 4. Recycle: It becomes a new raw material ready to be made into limitless number of things. This takes specialized equipment, and there are few facilities. However, it is likely this will be feasible in PNW in next 10 years.



Resource Considerations



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Life Cycle Costs



SYNTHETIC TURF

- Initial and replacement costs
- Useability
- Year-round playability
- Minimal maintenance



NATURAL GRASS

- Water use
- Fertilizers
- Weekly mowing
- Topdressing
- Aerating
- Seeding
- Limited useability and playability
- Irrigation system



Discussion



Please share any items that you would like to discuss further.

SURVEY

Which type of field did you think was the right choice
before the meeting?

Which type of field do you think is the right choice
now?



<https://www.mentimeter.com/app/presentation/n/aliwnm8xt9fxc3coh8y3t77temeokrk2/edit?question=vqnbietw6r8e>

THANK YOU!



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