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City Of Newton

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Synthetic Turf Improvement Projects

City Council Programs and Services Committee, City of Newton





Turf Field Needs for Both High Schools

NEWTON SOUTH HS TEAMS

FALL:

- 3 GIRLS SOCCER TEAMS (9TH, JV, VARSITY)
- 3 BOYS SOCCER TEAMS (9TH, JV, VARSITY)
- 3 FOOTBALL TEAMS (JV, VARSITY)
- 3 FIELD HOCKEY TEAMS (9TH, JV, VARSITY)
- 2 CROSS COUNTRY TEAMS ON TRACK

WINTER:

- 2 GIRLS TRACK TEAMS (WEATHER PERMITTING)
- 2 BOYS TRACK TEAMS (WEATHER PERMITTING)

SPRING:

- 3 GIRLS LACROSSE TEAMS (ALL LEVELS)
- 3 BOYS LACROSSE TEAMS (ALL LEVELS)
- 2 OUTDOOR TRACK (VARSITY, JV)
- 2 MIDDLE SCHOOL TRACK TEAMS
- 1 UNIFIED TRACK TEAM
- POTENTIAL RUGBY TEAMS

NEWTON NORTH HS TEAMS

FAII:

- 3 GIRLS SOCCER TEAMS (9TH, JV, VARSITY)
- 3 BOYS SOCCER TEAMS (9TH, JV, VARSITY)
- 3 FOOTBALL TEAMS (9TH, JV, VARSITY)
- 3 FIELD HOCKEY TEAMS (9TH, JV, VARSITY)
- 2 CROSS COUNTRY TEAMS ON TRACK

WINTER:

2 TRACK TEAMS, WEATHER PERMITTING

SPRING:

- 3 GIRLS LACROSSE TEAMS (ALL LEVELS)
- 3 BOYS LACROSSE TEAMS (ALL LEVELS)
- 2 OUTDOOR TRACK (VARSITY, JV)

UP TO 12 PRACTICES/GAMES EACH WEEKDAY TO SCHEDULE

UP TO 11 PRACTICES/GAMES EACH WEEKDAY TO SCHEDULE

Athletics at HS Fields & Albemarle Sports Complex

Winter:

- Oxford Rd. Neighborhood soccer
- Juventus Boston
- Newton Area Flag Football League Clinic
- Newton Girls Soccer
- Newton Youth Soccer
- Boston Villa Soccer club
- BOH & Day Middle Schools
- General Park and School Field Users

Spring:

- B.A.T. Training
- Buda Youth Frisbee
- J. Lowe Soccer Camps (BC clinic)
- Newton Boys Lacrosse league
- Boston FHC (field hockey clinic)
- Newton Area Flag Football League Clinic
- Eastern Mass Women's Soccer (Suburban Thunder games)
- USA Track and Field New England outdoor track
- Newton Special Athletes outdoor track
- Newton Girls Soccer
- Newton Youth Soccer
- Over the Hill Soccer League
- Newton Girls lacrosse League
- Prime workouts
- Tanrikulu resident group
- Eastern mass Women's Soccer League
- Newton Little League
- Newton LL Seniors
- Senior Youth Baseball
- Newton Girls Softball
- F.A. Day Middle School Athletics;
- Prime Baseball League
- Babe Ruth Baseball Tryouts
- Adult Cricket
- Extra Innings Baseball Clinic
- BOH & Day Middle Schools
- General Park and School Field Users

Summer:

- Eastern Mass Women's Soccer (Suburban Thunder games)
- BUDA Youth Frisbee
- Boston FHC (field hockey clinic)
- Newton Community Ed summer sports clinics
- REV Lacrosse
- Newton Special Athletes outdoor track
- Bertuzzi Soccer Training
- NN/NS Football Clinic
- North fall pre-season training and tryouts
- Newton Little League Babe Ruth Baseball
- Adult Cricket
- Newton Girls Softball
- Newton Community Ed baseball
- Bovs and Girls Club
- Extra Innings Baseball Clinic
- Mustang Youth Football
- American Legion Baseball
- Prime Baseball
- Juventas Youth Soccer
- BOH & Day Middle Schools
- General Park and School Field Users

Fall:

- Newton Mustangs (youth football)
- Endurance Youth Field Hockey
- Newton Boys Lacrosse League
 Newton Area Flag Football League Clinic
- Over the Hill Soccer league
- Eastern mass Women's Soccer League
- Newton Girls Soccer
- Newton Youth Soccer
- Newton Mustangs Football game
- Newton Little League
- Newton LL Seniors
 - Adult Cricket
 - Newton Girls Softball
- Mustang Youth Football
- F.A. Day Middle School Athletics
- Extra Innings Baseball Clinic
- Lasell Baseball
- NNHS Baseball captain's practice
- BUDA Youth Frisbee
- BUDA Adult Frisbee
- BOH & Day Middle Schools
- General Park and School Field Users

Synthetic Turf Replacements & Enhancement

- Synthetic turf field replacements at both NSHS Synthetic Fields
 - Winkler Stadium & Brandeis Rd Field
- Track Improvements
 - resurfacing at NSHS





Project History

- Newton South HS synthetic turf fields and track
 - constructed in 2009 (13 yrs. old)
- Synthetic turf typically needs to be replaced about 8 10 years after installation.
 - Repairs can be done to extend lifespan an additional 2-3 years
- Rubberized track surfacing typically needs to be resurfaced
 8 10 years after installation
- Fields are currently at their "end of life cycle"
 - repairs to extend lifespan of carpet are no longer effective

Existing Turf Photos







Existing Turf Photos



Existing Track Photos







Newton South High School Turf Replacements Project Goals

- Winkler Stadium, Brandeis Road Field and Tiger Stadium synthetic turf field replacement
 - Remove and recycle existing turf carpets
 - Remove and dispose of existing Crumb Rubber infill from recycled tires
 - Replace with better and cleaner turf carpet and infill
- Field collector drains cleaned

Synthetic Turf Field Surfaces and Materials Selection Based on a Balanced Approach



Longevity

- Life Span and Warranty
- Quality of Carpet
- Quality of Infill
- Minimal Infill Replenishing



Maintenance

- Annual Maintenance
- •Minimal Infill Displacement
- Minimal Large-Scale Repairs
- Reduced field marking labor



Player Safety in Turf

- Consistency in GMAX Rating
- •Heat Index
- •Toxic Chemical Exposure
- Freezing Conditions
- •Consistency in Head Injury Criterion (HIC) Rating



Environmental Impacts

- Minimal Infill Displacement into waterways
- •Cleaner Materials
- No need for Watering
- Future End-of-Life Disposal
- PFAS Exposure



Playability

- Playability
- Shock Absorption
- Minimal Disruption to Use
- •Extended Seasonal Use
- Retain Newton Athletic Competitive Edge

Recommended Synthetic Turf Field Surfaces and Materials Selection Based on a <u>Balanced Approach</u>

Turf Carpet:

- Dual Fiber Turf: Slit Film + Monofilament
 - Fiber height: 2.25"-2.5" to ensure GMAX values
 - Appropriate for: Soccer, Football, Lacrosse, Field Hockey and more!
 - Infill Flyout and Displacement Control

Infill Mix:

- TPE + Sand
 - No material Migration
 - Retains consistent GMAX ratings
 - Reduced heat levels compared to Crumb Rubber
 - Minimal annual replenishing required at center field and goals
 - Less susceptible to freezing

Project Budget Funding Request

- Total Estimated construction cost Including track resurfacing: \$967,000
- Turf materials at Winkler Stadium: \$1,146,354
- Turf materials at Brandeis Road: \$1,086,553
- Total Construction Administration: \$40,000
- TOTAL PROJECT COST \$3,240,000

Project Timeline

- Construction bid: mid to late January 2023
 - Installation of carpet and infill, track resurfacing,
- Material Order (Infill and Carpet): mid-February 2023
- Ground-breaking: After spring 2023 athletic season
- Substantial Completion: End of summer, prior to the start of 2023-2024 athletic pre-season



Thank you for attending!

For more information, please contact us at: Athleticfields@newtonma.gov Or visit us at newtonma.gov/parkprojects