



**Application for Community
Preservation Funding
For Projects Requesting \$25,000 or more**

1. PROJECT NAME _____ ARHS Track & Fields Project

2. APPLICANT INFORMATION

Project Sponsor or Organization: _____ Amherst-Pelham Regional School District

Address: _____ 170 Chestnut Street

City: _____ Amherst State: MA Zip: 01002

Daytime Phone: 413-362-1812 Fax: 413-549-9883

E-mail: _____ slaughterd@arps.org Website: _____ www.arps.org

Property Owner (if different from Applicant)

Contact Name: _____

Address: _____

City: _____ State: _____ Zip: _____

E-mail: _____

3. PROJECT INFORMATION

CPA Category (Please check all that apply):

- Open Space # of acres _____ Historic Preservation
 Recreation # of acres Apprx 15 Affordable Housing # of units _____

Project Location/Address: _____ 21 Matoon St, Amherst MA 01002

Leverett Assessors Map: N/A Lot: N/A

Brief Project Description: Augmentative support for the reorientation and renovation of the ARHS Track, interior athletic field, and surrounding athletic fields.

4. AMOUNT OF CPA FUNDING REQUESTED: \$101,400

For CPC Use

Date Received

Funding Recommendation

Date Application Deemed Complete

Public Hearing

Please see
attached materials.

B. PROJECT NARRATIVE

To assist the CPC in reviewing your application in a fair, equitable, and efficient manner, please provide a thorough project description, addressing each of the following points in the order indicated. Use separate sheets as needed and number each point to correspond with the section headings below. Please limit your submission to 5 additional pages.

1. **Goals and Description:** Provide a detailed project description, including but not limited to:
 - a. Project goals;
 - b. Description of project activities and outcomes and the property involved and its proposed use;
 - c. Indication of how the project is eligible for CPA funding;
 - d. Description of the project applicant and any project partners.
2. **Community Need:** Indicate what community need(s) the project will address and how these are consistent with Town policy and plans. Describe the ways that the project will benefit the Town.
3. **Community Support and Outreach:** Demonstrate community support for this project. Submit at least 3 letters, petitions, or other documentations of support.
4. **Maintenance:** If ongoing maintenance is required for the project, indicate how it will be funded.
5. **Success Factors:** Describe how the project's success will be measured. Indicate the specific method(s) that will be used to evaluate each project outcome. Identify any significant barriers to complete the projected outcomes and specify how these would be addressed.
6. **Project Permits & Approvals:** Provide documentation as required:
 - a. Control of Site: Provide documentation that the applicant has control over the site, such as a Purchase and Sales Agreement, option, or deed. If the applicant does not have site control, explain how public benefits will be protected in perpetuity. If the applicant is not, or will not be, the owner of record, submit a certification of project approval by the owner.
 - b. Deed Restrictions: Identify the present owner and attach a copy of the deed up to present owner. In addition, identify the entity that will be holding rights to enforce the restriction. In order for a project's funding to be distributed fully, an applicant must have filed with the CPC a copy of the appropriate deed restriction.
 - c. Hazardous Materials: If there is any reason to believe that hazardous materials, or if there are hazardous materials present at the proposed site, please indicate the proposed plan for remediation.

- d. Environmental Concerns: Identify all known wetlands, floodplains, and/or any natural resource limitation that occur within the project boundaries.
- e. Evidence of Historic Significance [for historic preservation projects]: An applicant must provide evidence that the historic resource is listed or eligible for listing on the Massachusetts State Register of Historic Places or obtain a letter from the Leverett Historic Commission ["LHC"] that the historic resource is locally significant. Consult with the LHC for its approval process.
- f. Under CPA, all work on historic resources must comply with the United States Secretary of the Interior's Standards for Rehabilitation. The Leverett CPC requires historic preservation projects to obtain a Preservation Restriction, in order to protect the Town's investment should the property change hands or become subject to additional development pressures. The Massachusetts Historical Commission must grant final approval of Preservation Restrictions.
- g. Permitting: Indicate any further actions that will be required to complete the project, such as environmental assessments, zoning or other approvals, agreement on terms of any required conservation, affordability, or historic preservation restrictions, and any other known barriers to moving forward. Present evidence that the project does not violate any zoning ordinances, covenants, restrictions, or other laws or regulations and that the project will expeditiously meet environmental and other permitting requirements, so that on-the-ground activities will begin within the first 12 months after the project's start date. Evidence of consultation with the Conservation Commission, DPW, Planning Board, Historical Commission, Select Board, etc. where applicable, is strongly recommended.

List below any permits needed for the project. Provide copies of permits already acquired.
 (Applicants are responsible for all costs associated with permitting, including, but not limited to abutter mailings and advertising.)

Name of Permit	Filed (Y/N)	Date Filed	Date Obtained

Please see attached materials.

C. PROJECT BUDGET, FUNDING, & TIMELINE

- Project Budget:** State the total budget for this project, and how CPA funds will be spent. Provide a detailed itemization of all project expenses, such as personnel, consultants, contracted services, equipment, and supplies. For each item, specify in parentheses how the expense was calculated, e.g. (# of hrs. x cost/hr.) Applicants should obtain at least 2 quotes for project costs when possible; if not, indicate where cost estimates have been used. For each item, identify whether CPA funds or other funding will be used, and note where applicant and/or partner in-kind contributions will cover non-CPA fundable expenses such as administration.

Use table below or include as a separate attachment.

Expense Item	Total	CPA	Other
TOTAL			

- Other Funding:** Describe efforts to secure other funding. Indicate what additional funding sources are available, committed, or pending. Include commitment letters, if available. Use table below or include as a separate attachment.

Sources of Funds Other than CPA	Amount	Funding Requested (Y/N)	Funding Secured (Y/N)

3. Total Project Funding:

If the proposal is part of a multi-phase project, please indicate below the projected project costs and funding sources for the additional phases to completion.

Fiscal Year	Total Project Cost	CPA Funds to be Requested	Other Funding
2023			
2024			
2025			
2026			

Project Narrative and Budget Information - ARHS Track and Fields Project

Project Narrative

1. Goals and Description

Please see the attached documents 2022.02.14 APRHS Track Scenario Technical Memorandum.pdf (multiple pages) and Amherst Track Options- 04 26 22.pdf (single page) for the project goals, activities, and outcomes. In particular note Option 3 within these documents. This renovation will provide appropriate and, in many ways, enhanced facilities for all Leverett students at the Regional Schools through its use for Physical Education courses and extracurricular activities. When not in use by the schools it will serve as a regional resource for recreation. Besides being available for general public use it will be available for Amherst Recreation Department programming which includes opportunities for Leverett students other than those in the Regional Schools.

Not all aspects of this project are eligible to use CPA funds and as a result several sources are being leveraged to provide support for this project. Because this project supports a resource at the Regional Schools the other three Amherst-Pelham Regional School District Member Towns are partners in the funding of this project both through the Regional School Capital Assessment process as well as through CPA funds, donations, and additional tax support requests.

2. Community Need

This project will support the renovation of multiple-use recreation spaces utilized by all Regional School District students. As noted above, it will be available as a regional resource to the general public and a specific resource to Amherst Recreation Department for programming that serves Leverett school children.

3. Community Support and Outreach

This project and the potential funding mechanisms have been included in many public meetings over the last few years. The project itself has been widely supported as a need for the Regional Schools with understandable concerns about how best to fund it being raised.

4. Maintenance

The Regional Schools, in cooperation with the Town of Amherst DPW, will regularly maintain and keep up the facility. Ongoing capital needs for the facility will be a part of the Regional Schools Capital Planning process.

5. Success Factors

Completion of the project will allow for a significant increase in the amount of playable hours on the fields spaces as well as create the possibility of other kinds of programming than is currently possible (e.g., hosting MIAA tournament events).

6. Project Permits & Approvals

- a. Control of Site – The site is under the direct ownership and control of the Amherst-Pelham Regional School District
- b. Deed Restrictions – None currently exist.

- c. Hazardous Materials – None known to exist.
- d. Environmental Concerns – The Tan Brook is currently culverted under the playing fields at the site.
- e. Evidence of Historical Significance – N/A
- f. CPA Historical Restrictions – No Historic Preservation restrictions are expected to be needed. However, other deed restrictions such as open space/recreation restrictions are expected to be required.
- g. Permitting – Several permits for this work will be required and the delineation of these will occur through the design phase of the project.

Budget, Funding & Timeline

1. Project Budget – Current estimates are in the attached documents 2022.02.14 APRHS Track Scenario Technical Memorandum.pdf (pages 20 and 12 of the document) and Amherst Track Options- 04 26 22.pdf. Not all costs delineated within these estimates are eligible for CPA funding and so strict accounting of the use of CPA funds for eligible costs will be a part of the project management.
2. Other Funding – Multiple other sources of funding are being sought to complete this project. The chart on the next page shows the most recent authorizations and potential sources.
3. Total Project Funding – See chart on the next page.

The Regional School Committee will make a decision in January 2023 whether to proceed with the Option 3 project as described in the attached documents. There is urgency to repair the track as soon as possible. Once the School Committee decision is made with respect to the project scope, the solicitation for design services will begin immediately with construction to follow as rapidly after design as possible.

\$ Amounts	Amherst		Leverett		Pelham		Shutesbury		Total	
	Projected	Committed/ Suggested	Projected	Committed/ Suggested	Projected	Committed/ Suggested	Projected	Committed/ Suggested	Projected	Committed/ Suggested
Local Taxation (debt authorization)	\$1,184,850	\$1,184,850	\$ 126,750	\$ 126,750	\$ 82,350	\$ 82,350	\$ 106,050	\$ 106,050	\$1,500,000	\$1,500,000
CPA Funds (target)	\$947,880	\$957,500	\$101,400		\$65,880	\$11,500	\$84,840		1,200,000	\$969,000
Other Town Sources (target)	\$890,604	\$380,748*	\$40,979	\$34,193*	\$29,290	\$20,702*	\$39,127	\$38,898*	1,000,000	\$474,541
Donations (target)									1,000,000	
Grand Total	\$3,023,334	\$2,523,098	\$ 269,129	\$160,943	\$ 177,520	\$114,552	\$ 230,017	\$144,948	\$4,700,000	\$2,943,541
Amount Remaining		\$500,236		\$108,186		\$62,968		\$85,069		\$1,756,459

**Reduced Assessment in FY22 due to E&D above allowable threshold.*

COST SUMMARY CHART

OPTION	PROJECT AREA	DESCRIPTION	COST	COST W/ 12% DESIGN
1A	Existing Track	Resurface Existing Track. Relocate field event areas to adjoining field space. Improve access, perimeter fencing and pathways systems to provide ADA accessibility to the track facility. Construction over the culverted Tan Brook.	\$ 1,116,000	\$ 1,249,920
1B	Track with Natural Turf Field	Enlarge Track in current orientation to allow for properly sized Natural Turf playing field interior. Relocate field events areas to adjoining field space. Improve access, perimeter fencing and pathways systems to provide ADA accessibility to the track facility. Construction over the culverted Tan Brook. New Field Lighting and irrigation.	\$ 3,147,000	\$ 3,524,640
2	N/S Track with Natural Turf Field	Relocate the Track to a North/ South orientation with a Natural Turf playing field interior. Relocate field event areas to adjoining field space. Improve access, perimeter fencing and pathways systems to provide ADA accessibility to the track facility. Construction over the culverted Tan Brook. New Field Lighting and irrigation.	\$ 3,365,000	\$ 3,768,800
3A	N/S 6-Lane Track with 8-Lane Straight & Synthetic Turf Field	Relocate the Track to a North/ South orientation with a Synthetic Turf playing field interior. Relocate field event areas to adjoining field space. Improve access, perimeter fencing and pathways systems to provide ADA accessibility to the track facility. Construction over the culverted Tan Brook. New Field Lighting and irrigation.	\$ 4,231,000	\$ 4,738,720
3B	N/S 8-Lane Track with Synthetic Turf Field	Relocate the Track to a North/ South orientation with a Synthetic Turf playing field interior. Relocate field event areas to adjoining field space. Improve access, perimeter fencing and pathways systems to provide ADA accessibility to the track facility. Construction over the culverted Tan Brook. New Field Lighting and irrigation.	\$ 4,335,000	\$ 4,855,200

*Cost above Includes 12% Contractors Mobilization, Overhead & Profit; 10% Bid/ Construction Contingency.

Note: Costs reflect master plan level design. The contingency will be adjusted accordingly with the level of design. Prices may vary due to unforeseen conditions and recent spike in construction costs due to Covid-19.

February 14, 2022

Douglas Slaughter
Director of Finance
Amherst Pelham Regional and Public Schools
170 Chestnut Street
Amherst, MA 01002

Re: **Amherst Pelham Regional High School Athletic Complex**
Subj: **Technical Memorandum for Track and Field Improvement Scenarios**

INTRODUCTION

Background

Based on the condition of the existing running track (track) at Amherst Pelham Regional High School Athletic Complex, there is an urgency to resurface/reconstruct the track in the near future. To address these immediate needs and as an offshoot to the 2019/2020 Athletic Facilities Strategic Plan (Master Plan), the Town of Amherst and the Regional Schools requested that Weston & Sampson provide an evaluation of three track improvement scenarios including resurfacing of the track in its current location, reorienting the running track with a grass playing field interior, and reorienting the track with a synthetic playing field interior. Based on the Town's desire to host Massachusetts Interscholastic Athletic Association (MIAA) events on the playing field inside the track, a fourth option was prepared to accommodate this need in the track's current location. Any of these scenarios will require work over the Tan Brook Culvert that currently runs through the site and underneath the existing track.

The Master Plan identified long-term benefits of reorienting the running track including optimizing field space to accommodate a softball field and installing the track and field in a north south orientation per American Sports Builders Association (ASBA) guidelines. Recognizing that reorienting the track requires a significant capital investment the Town requested refinement of the opinions of cost provided in the Master Plan as well as develop costs for resurfacing the track in its current location and associated accessibility improvements.



Basic Goals and Objectives

Based on the project assignment the following goals and objectives were developed and utilized as a guide to conduct the study.

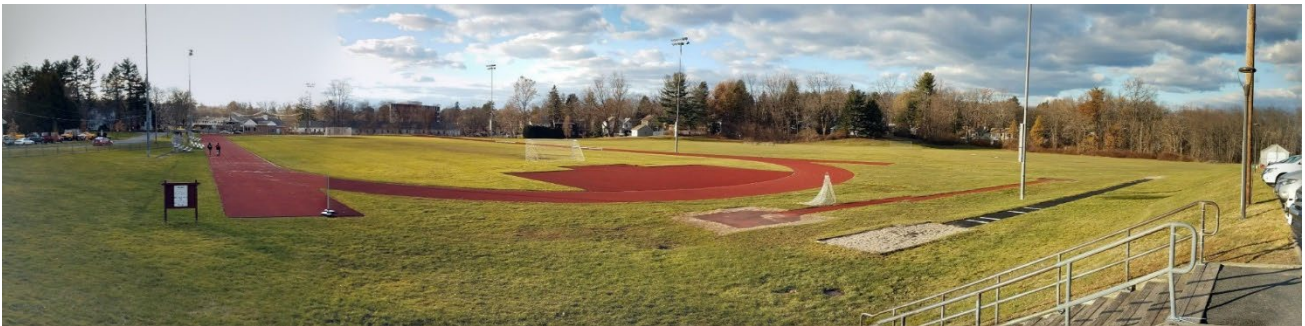
Goals: To evaluate track improvement scenarios with opinions of cost to help the Town strategize on addressing the poor condition of the existing track.

Objectives: To complete the evaluation the following basic tasks were performed:

- Kick-off meeting on premises followed by a site walk to visually record current conditions
- Review of the 2019/2020 Athletic Facilities Strategic Plan
- Identification of the benefits, drawbacks, and other considerations inherent to each scenario
- Preparation of an illustrative plan graphic to represent the four scenarios
- Preparation of and opinion of cost for each scenario
- Preparation of lifetime costs, hours of play prospects, etc. for the synthetic turf field option vs. natural turf
- Identification of other possible public perception challenges and approaches to mitigate same
- Preparation of design, permitting and construction schedule(s)
- Coordination with designated project representative throughout

Existing Conditions

Based on a field walk conducted in November 2021, several conditions identified in the 2019/2020 Master Plan were confirmed. Below is a summary of conditions pertinent to the running track.



- The fields showed some signs of recovery due to limited use during the pandemic. Based on historical overuse the fields are anticipated to return to their pre-Covid19 state.
- The fields are poorly oriented, three of the four are at an east-west orientation, requiring players to face the setting sun later in the day.
- The space at the site is not fully utilized and lacks multi-generational facilities for community-wide use.
- The grass conditions are poor to fair at the fields.
- The facility lacks adequate seating and access pathways sufficient for ADA requirements.
- Poor field drainage with very soft field conditions observed during site visits without recent rainfall.
- No ADA parking spaces for the field facility and parking, in general, is lacking.
- No ADA connections between the existing parking lot and the field facilities.
- The fencing is in relatively poor condition and needs replacement.
- Tan Brook is culverted under the High School fields.
- The track has redundant/unnecessary extensions on each side of the track
- Several repair areas were evident, and some settling has occurred on the inside perimeter drain
- Much of the running track appears to out of tolerance for planarity
- The soccer field lines were striped too close to the track resulting in limited player bench areas
- The rubber surface appeared to be far beyond its useful life



Overall image of Track and Multi-Use Field 1 (left photo), the poor surface condition (middle photo,) and the consistent cracking and damaged areas of the track (right photo) have resulted in the track being unusable for league and tournament meets. Note the lack of ADA accessibility at the site as shown in the panoramic photo on the previous page.



Improvement + Opinion of Cost Scenarios

The four scenarios depicted below are master plan level drawings and were developed to a level to help understand potential cost impacts. The opinion of cost for each option are for capital planning purposes and include 12% contractor mobilization, overhead & profit and 10% contingency. Prices may vary due to unforeseen conditions and recent spike in construction costs due to Covid-19. The costs assume that the Tan Brook culvert is in good condition and does not require any repair or replacement. Detailed design, engineering, permitting and documentation has not been completed and may cause fluctuation in prices. Dollar values are reflective of 2021 construction costs. It is recommended that the costs be increased by 4-6% per year to account for inflation.

The four scenarios depicted on the following pages include a bulleted list of improvements, graphic representation, and summary of probable construction costs.

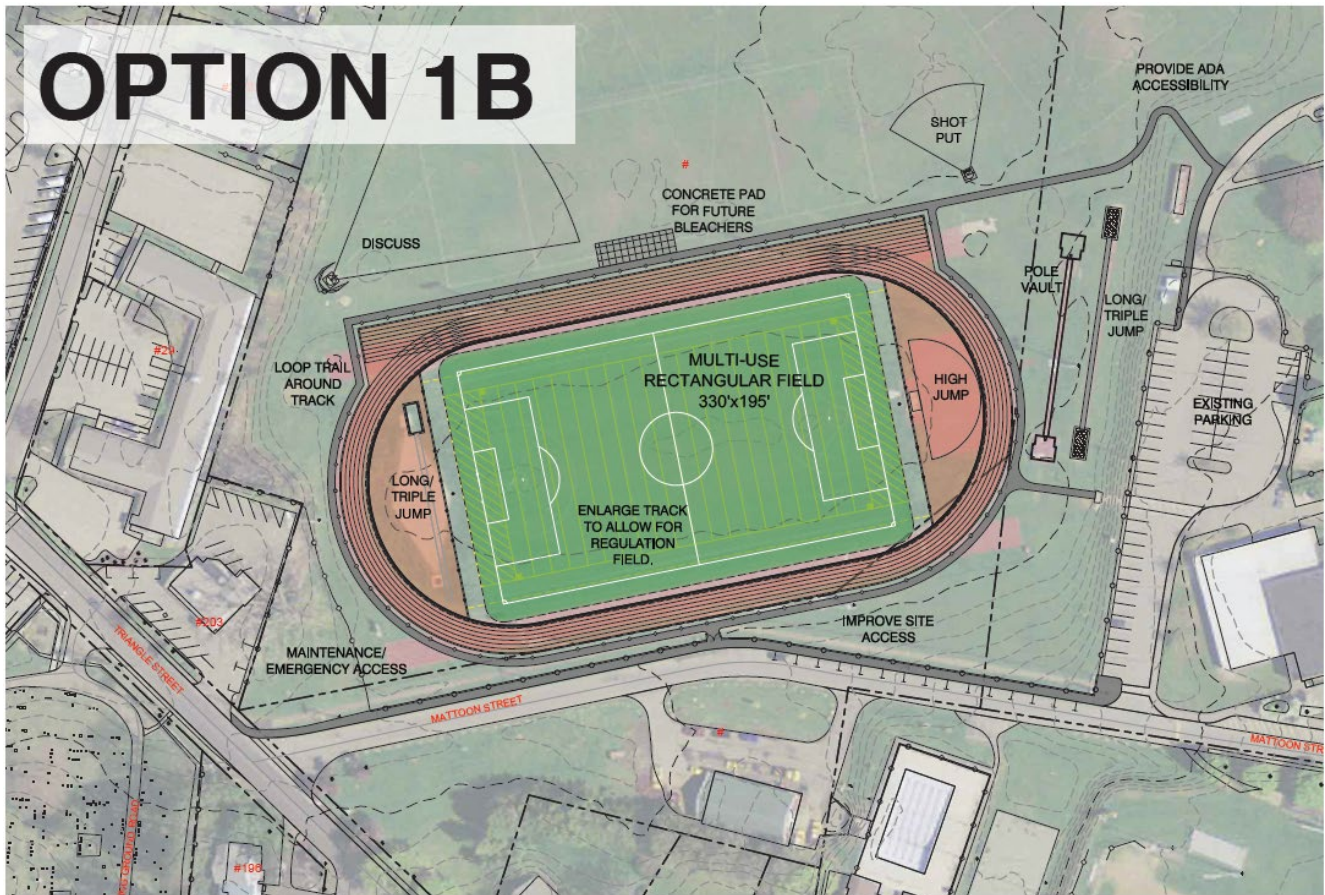


COST SUMMARY CHART

OPTION	PROJECT AREA	DESCRIPTION	COST	COST W/ 12% DESIGN
1A	Existing Track	Resurface Existing Track. Relocate field event areas to adjoining field space. Improve access, perimeter fencing and pathways systems to provide ADA accessibility to the track facility. Construction over the culverted Tan Brook.	\$ 1,116,000	\$ 1,249,920

OPTION 1.A. | Resurfacing of the running track in its current location

- Resurfacing of the High School Track in its current configuration and reconstruction of jumping events.
- Relocation of some of the field event areas currently interior to the track to some of the adjoining spaces to allow for better utilization of the interior field for other sports as well as improve the quality of the field event areas.
- Improved access and pathways systems to provide ADA accessibility to the track facility.
- Construction over the culverted Tan Brook.
- No new seating or other comfort/storage facilities
- Fence and access improvements

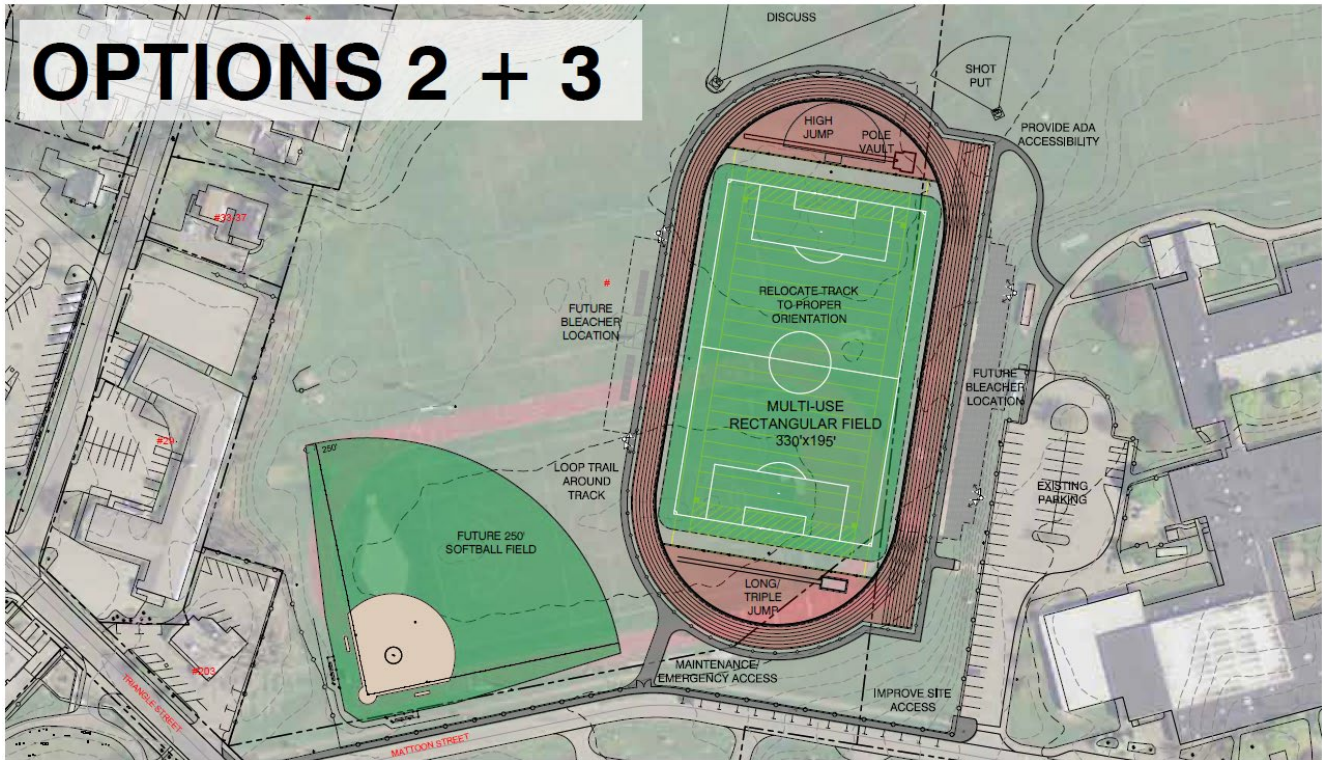


COST SUMMARY CHART

OPTION	PROJECT AREA	DESCRIPTION	COST	COST W/ 12% DESIGN
1B	Track with Natural Turf Field	Enlarge Track in current orientation to allow for properly sized Natural Turf playing field interior. Relocate field events areas to adjoining field space. Improve access, perimeter fencing and pathways systems to provide ADA accessibility to the track facility. Construction over the culverted Tan Brook. New Field Lighting and irrigation.	\$ 3,147,000	\$ 3,524,640

OPTION 1.B | Resurfacing of the running track in its current location

- Resurfacing of the High School Track, consolidating the sprinting events to the north side with 8 lanes, and widening the track to accommodate MIAA events
- Reconstruction of the jumping events
- Relocation of some of the field event areas currently interior to the track to some of the adjoining spaces to allow for better utilization of the interior field for other sports as well as improve the quality of the field event areas.
- Improved access and pathways systems to provide ADA accessibility to the track facility.
- Construction over the culverted Tan Brook.
- No new seating or other comfort/storage facilities



COST SUMMARY CHART

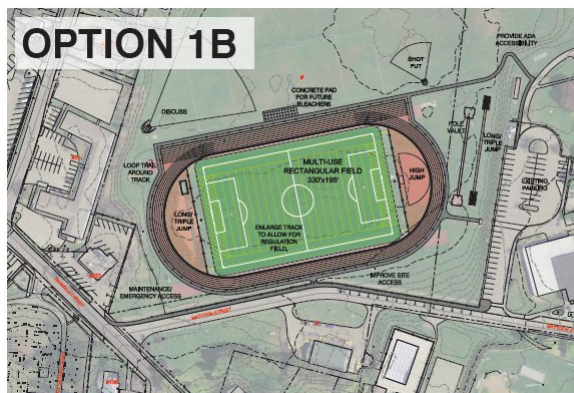
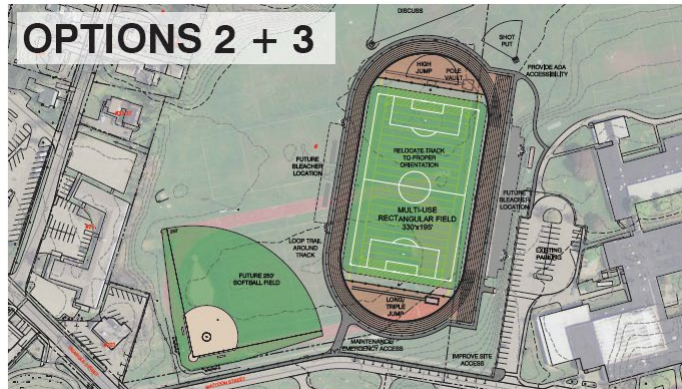
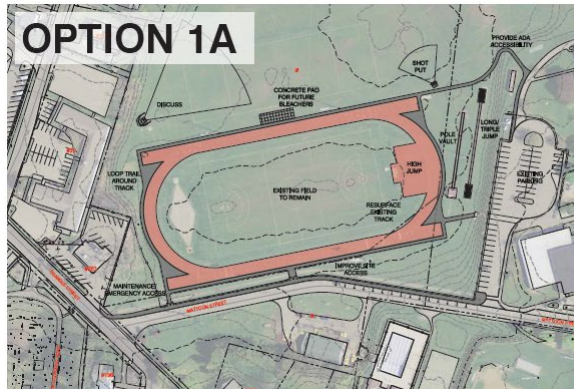
OPTION	PROJECT AREA	DESCRIPTION	COST	COST W/ 12% DESIGN
2	N/S Track with Natural Turf Field	Relocate the Track to a North/ South orientation with a Natural Turf playing field interior. Relocate field event areas to adjoining field space. Improve access, perimeter fencing and pathways systems to provide ADA accessibility to the track facility. Construction over the culverted Tan Brook. New Field Lighting and irrigation.	\$ 3,365,000	\$ 3,768,800
3	N/S Track with Synthetic Turf Field	Relocate the Track to a North/ South orientation with a Synthetic Turf playing field interior. Relocate field event areas to adjoining field space. Improve access, perimeter fencing and pathways systems to provide ADA accessibility to the track facility. Construction over the culverted Tan Brook. New Field Lighting and irrigation.	\$ 4,231,000	\$ 4,738,720

OPTION 2 + 3 | Reorienting the running track with a grass or synthetic turf playing field interior

- Reorient the track north/south
- Option 2 Interior grass playing field. (Potential to upgrade to a synthetic surface later.)
- Option 3 Interior synthetic turf field.
- Access and pathways systems to provide ADA accessibility to the facility.
- Adjustments to the field lighting.
- Construction over the culverted Tan Brook.
- No new seating or other comfort/storage facilities

Scenario Comparison

Below is a summary of information that identifies the benefits, drawbacks, and other considerations inherent to each scenario.



2021 TOTAL COST SUMMARY INCLUDING CONSTRUCTION AND DESIGN

- **OPTION 1A - \$1.25M**
- **OPTION 1B - \$3.52M**
- **OPTION 2 - \$3.77M**
- **OPTION 3 - \$4.74M**

OPTION 1A (Grass)

- *Pros* – Least costly option, provides ADA access, lifecycle costs of grass field
- *Cons* – Poor orientation, 6 lanes only for sprinting events, cannot host MIAA events, limited player bench area, limits optimization of overall field space, patchwork, inconsistent base, grass surface limits hours of use to 600hrs, does not maximize use of field lights, decreased dependability, and has increased maintenance costs

OPTION 2 (Grass)

- *Pros* – Good field orientation, new construction, optimization of overall field space & track layout, 8 lanes for sprinting events, provides ADA Access, more space for player bench areas, spectator seating area more spacious, lifecycle costs of grass field
- *Cons* – Cost, grass surface limits hours of use to 600hrs, does not maximize use of field lights, decreased dependability, and has increased maintenance costs

OPTION 1B (Grass)

- *Pros* – Optimizes track layout, 8 lanes for sprinting events, provides ADA Access, more space for player bench areas, spectator seating area more spacious, lifecycle costs of grass field
- *Cons* – Increased cost, poor orientation, limits optimization of overall field space, patchwork, inconsistent base, grass surface limits hours of use to 600hrs, does not maximize use of field lights, decreased dependability, and has increased maintenance costs

OPTION 3 (Synthetic Turf)

- *Pros* – Good field orientation, new construction, optimization of field space & track layout, 8 lanes for sprinting events, ADA Access, spacious player bench areas, spacious spectator seating area, synthetic turf maximizes hours, up to 2,000-2,500hrs with lights, minimal maintenance and water usage, no fertilizers, dependability, consistent scheduling, minimal loss of hours due to weather, consistent playing surface
- *Cons* – Highest initial and lifecycle costs, limited recyclability, heat, negative perception of environmental, human health risks, and injuries

Natural Grass vs. Synthetic Turf

With the increasing vagaries of weather, popularity of youth sports, and the high demand for fields and field maintenance, many communities are installing synthetic turf fields to handle the increase in user demand. Synthetic turf is extremely durable, long lasting, and easy to maintain, making it reliable and available when other natural turf fields are being over-used with little to no rest creating potential safety hazards and poor playability. Below are a list of the advantages and disadvantages of each field type.

NATURAL TURF FIELD	
ADVANTAGES	
Initial Cost	The initial cost of a natural turf field is about one-half to one-third of the cost of a synthetic turf field.
Performance	Natural grass creates more friction than artificial turf in a recreational setting, a factor that accelerates rates at which objects move across its surface. In a game such as baseball or soccer, reduced friction means ground-based plays that may be easy catches on natural grass are more difficult on artificial turf.
Replacement Costs	The replacement costs are similar to the initial costs, which are much lower than the cost of replacing a synthetic turf field.
DISADVANTAGES	
Maintenance Costs	Annual maintenance costs for a natural grass field can be more than three times that of a synthetic turf field. These costs include mowing, watering, fertilizing, aeration, seeding and labor.
Playing Time	Natural turf should not be played on more than 500 hours per year, limiting the amount of use it gets. If a natural turf field is being played on more than the recommended amount, there is less rest/ recovery time for the grass, resulting in more safety hazards and poor playing surfaces. Natural turf is also restricted by the weather condition.
Environment	An average natural turf field uses about 50,000 gallons of water per week during the growing season. Also, natural grass fields require fertilizers (and sometimes pesticides/herbicides) which can be impactful to the environment.

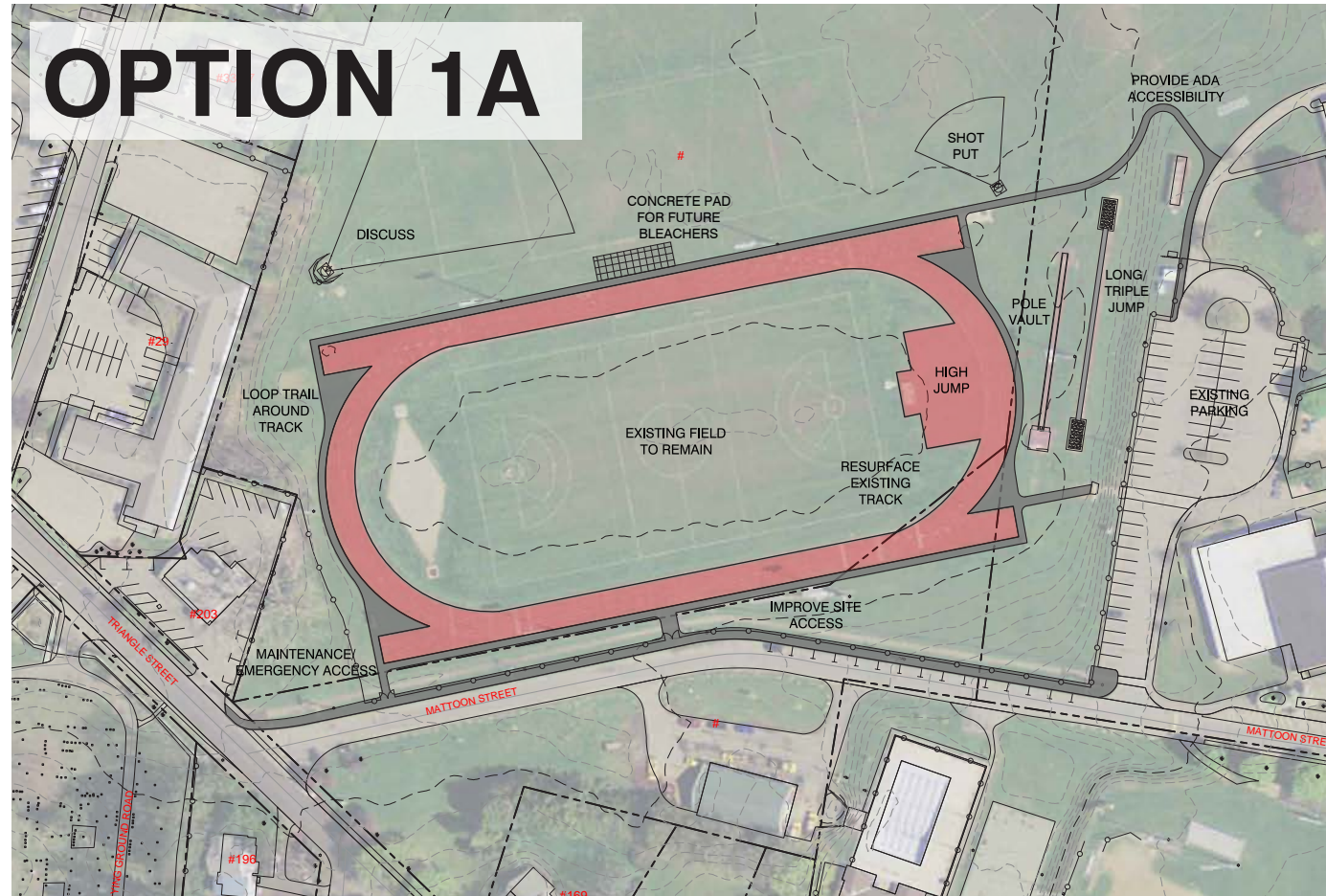
SYNTHETIC TURF FIELD	
ADVANTAGES	
Lower Maintenance Costs	Synthetic turf requires much less yearly maintenance which includes grooming the field every 100 hours of play, top dressing the infill every 2-3 years, and annual G-MAX monitoring. Annual maintenance costs can range from \$15,000-\$25,000.
Playing Time	Due to the durability, synthetic turf can support over 2,000 hours of play per year should schedules allow and can be played on in most weather conditions.
Dependable Playing Surface	The even playing surface may minimize certain types of injuries compared to an uneven surface of natural turf where dips and patches form and are enhanced during wet conditions creating mud and slipping hazards. Predictable ball roll.
Scheduling	Adaptable to any weather condition, synthetic turf provides a reliable playing surface and minimizes rescheduling.
DISADVANTAGES	
Initial Costs	The initial costs can be 2-4 times that of a natural turf field.
Abrasive	Synthetic turf has been known to be more abrasive than natural turf, resulting in more turf burns to a player's skin.
Heat Hazards	Synthetic turf has heat absorbing properties.
Public Perception	Some people may view synthetic turf as a potential risk to players and the environment.
Replacement Costs	The replacement costs are a lot higher for synthetic turf and can reach up to 75% of the initial investment.

Life-cycle Cost Analysis

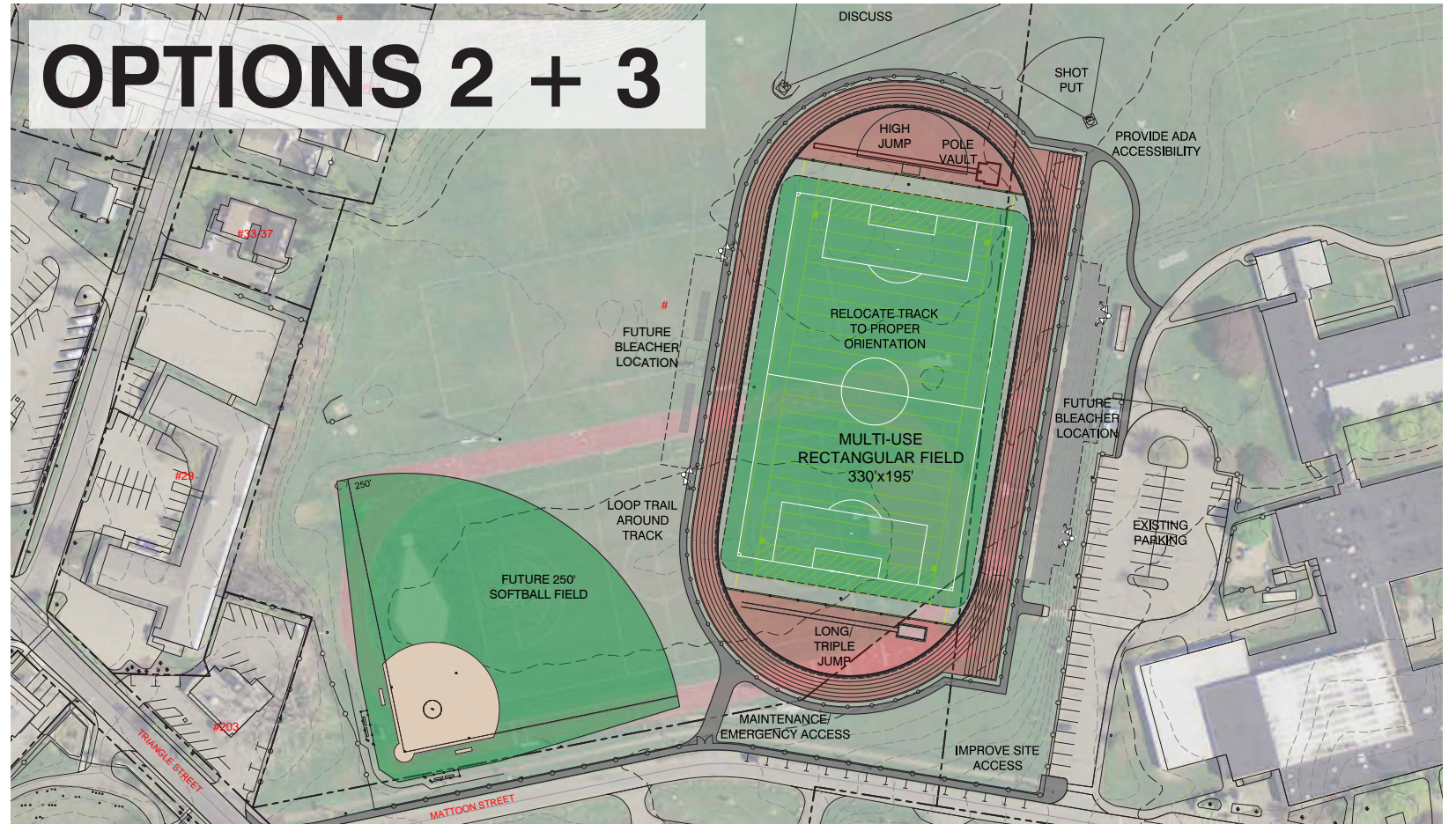
When the installation of synthetic turf is being considered, it is important to understand lifecycle cost of installing, maintaining, and replacement of the desired infrastructure. Below is a summary of project costs for synthetic turf versus a native soil grass field and an engineered, sand based, high performing grass field. The chart below is in terms of 2021 construction dollars. All costs are general order of magnitude and are provided to understand the big picture comparison of sports surfacing materials. As you will see, synthetic turf has higher life-cycle costs, however, the value gained is in the amount of hours one gets from the investment. An average cost per hour of use is provided accordingly. Choosing a synthetic turf surfacing is a community decision and cost is one of many factors to consider.

	Native Soil Natural	Sand Based Natural	Synthetic Turf
Initial Construction Cost	\$600,000	\$850,000	\$1,500,000
Annual Maintenance Cost	\$25,000	\$30,000	\$10,000
Replacement Cost After 12 Years	\$200,000	\$250,000	\$850,000
Life-Cycle Cost over 12 Years	\$1,100,000	\$1,460,000	\$2,500,000
Hours of Recommended use per Year	100 to 200	350 to 600	1,500 w/o lights+
Average Cost per Hour of Use	\$420	\$200	\$140

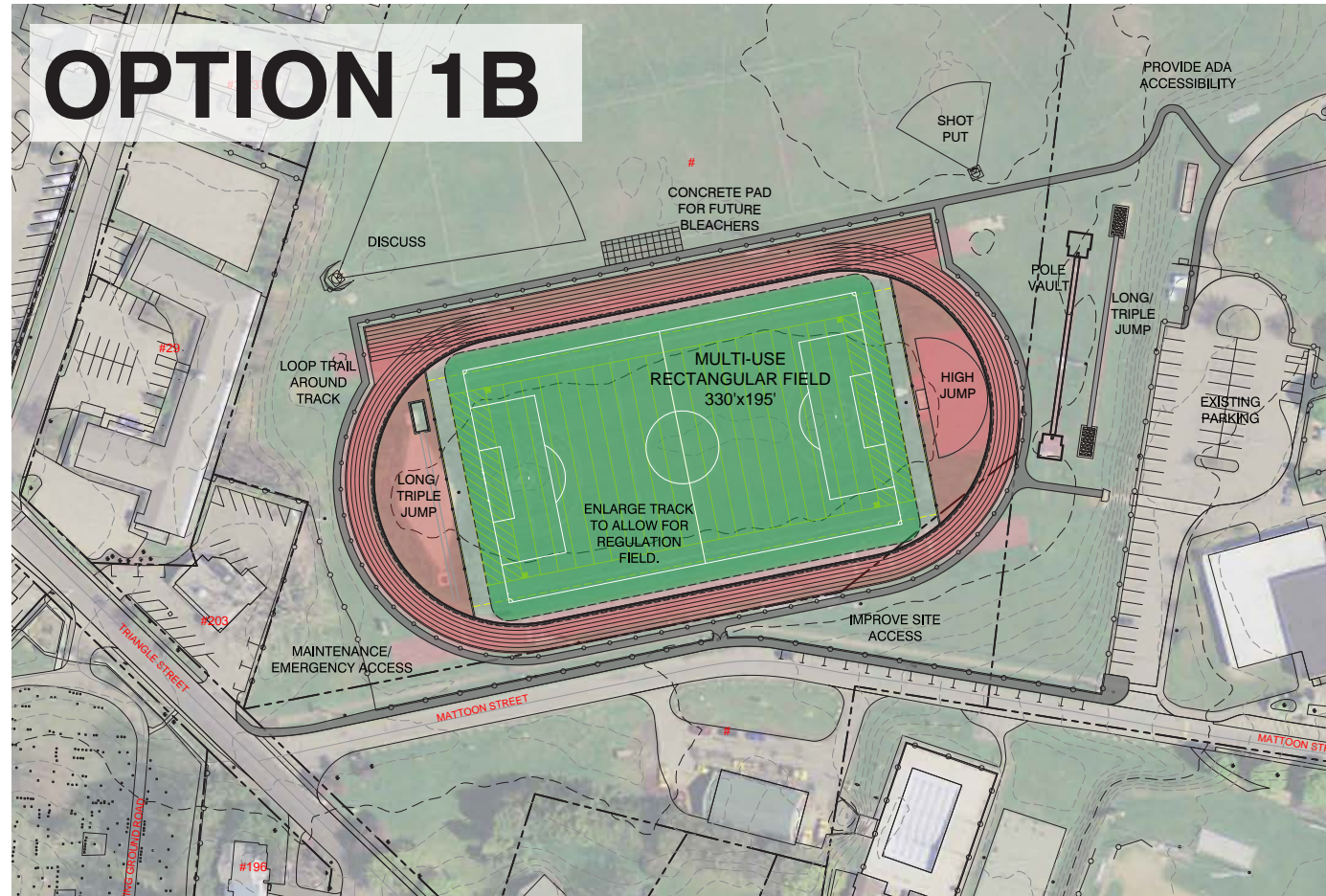
OPTION 1A



OPTIONS 2 + 3



OPTION 1B



Town of Amherst, MA.
High School- Track Renovation
Draft Opinion of Cost - 02/14/2022

- DRAFT -

COST SUMMARY CHART

OPTION	PROJECT AREA	DESCRIPTION	COST	COST W/ 12% DESIGN
1A	Existing Track	Resurface Existing Track. Relocate field event areas to adjoining field space. Improve access, perimeter fencing and pathways systems to provide ADA accessibility to the track facility. Construction over the culverted Tan Brook.	\$ 1,116,000	\$ 1,249,920
1B	Track with Natural Turf Field	Enlarge Track in current orientation to allow for properly sized Natural Turf playing field interior. Relocate field events areas to adjoining field space. Improve access, perimeter fencing and pathways systems to provide ADA accessibility to the track facility. Construction over the culverted Tan Brook. New Field Lighting and irrigation	\$ 3,147,000	\$ 3,524,640
2	N/S Track with Natural Turf Field	Relocate the Track to a North/ South orientation with a Natural Turf playing field interior. Relocate field event areas to adjoining field space. Improve access, perimeter fencing and pathways systems to provide ADA accessibility to the track facility. Construction over the culverted Tan Brook. New Field Lighting and irrigation	\$ 3,365,000	\$ 3,768,800
3	N/S Track with Synthetic Turf Field	Relocate the Track to a North/ South orientation with a Synthetic Turf playing field interior. Relocate field event areas to adjoining field space. Improve access, perimeter fencing and pathways systems to provide ADA accessibility to the track facility. Construction over the culverted Tan Brook. New Field Lighting and irrigation	\$ 4,231,000	\$ 4,738,720

*Cost above Includes 12% Contractors Mobilization, Overhead & Profit; 10% Bid/ Construction Contingency.

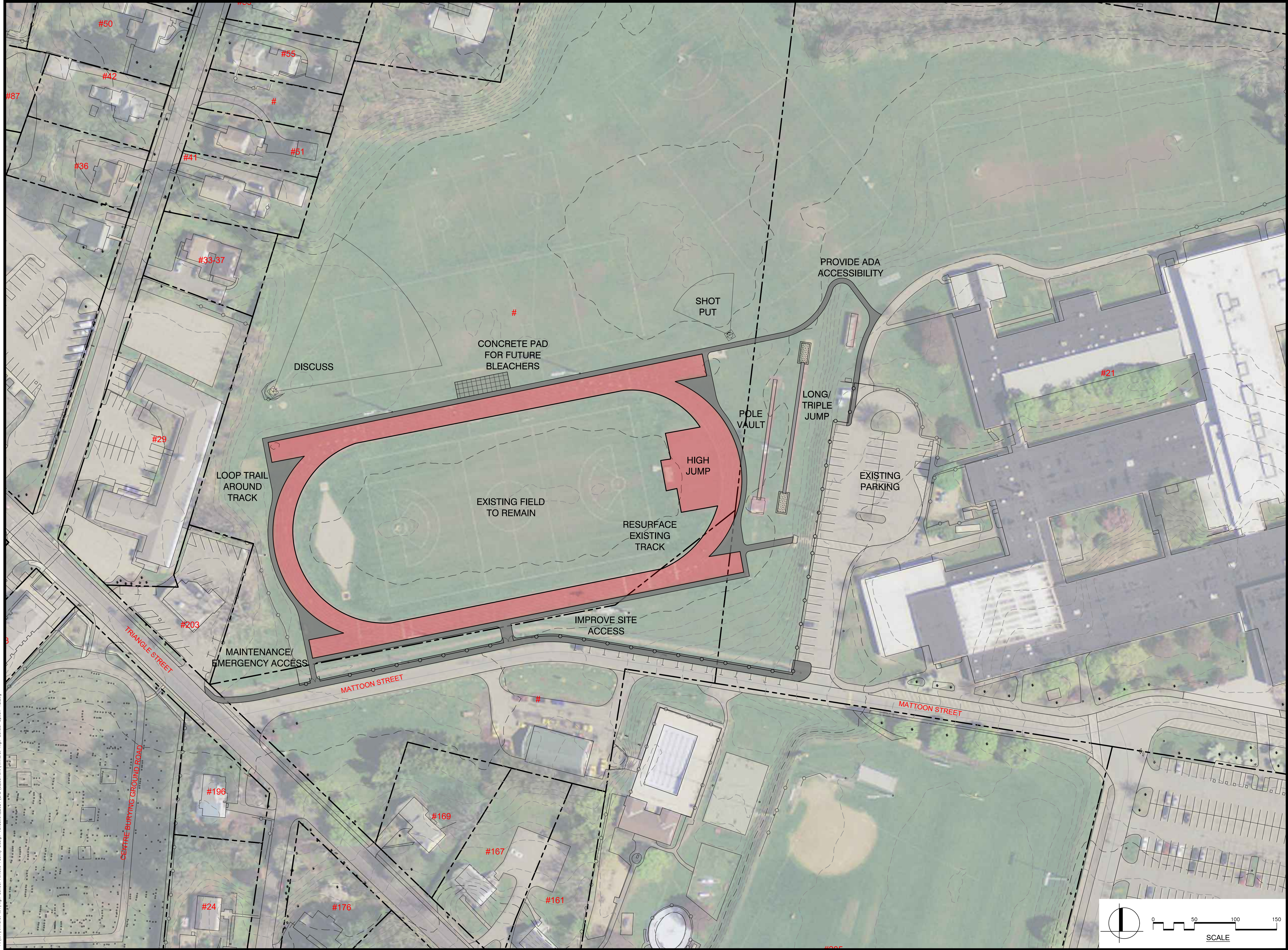
Note: Costs reflect master plan level design. The contingency will be adjusted accordingly with the level of design. Prices may vary due to unforeseen conditions and recent spike in construction costs due to Covid-19.

COST SUMMARY CHART


OPTION	PROJECT AREA	DESCRIPTION	COST	COST W/ 12% DESIGN
1A	Existing Track	Resurface Existing Track. Relocate field event areas to adjoining field space. Improve access, perimeter fencing and pathways systems to provide ADA accessibility to the track facility. Construction over the culverted Tan Brook.	\$ 1,116,000	\$ 1,249,920
1B	Track with Natural Turf Field	Enlarge Track in current orientation to allow for properly sized Natural Turf playing field interior. Relocate field events areas to adjoining field space. Improve access, perimeter fencing and pathways systems to provide ADA accessibility to the track facility. Construction over the culverted Tan Brook. New Field Lighting and irrigation.	\$ 3,147,000	\$ 3,524,640
2	N/S Track with Natural Turf Field	Relocate the Track to a North/ South orientation with a Natural Turf playing field interior. Relocate field event areas to adjoining field space. Improve access, perimeter fencing and pathways systems to provide ADA accessibility to the track facility. Construction over the culverted Tan Brook. New Field Lighting and irrigation.	\$ 3,365,000	\$ 3,768,800
3	N/S Track with Synthetic Turf Field	Relocate the Track to a North/ South orientation with a Synthetic Turf playing field interior. Relocate field event areas to adjoining field space. Improve access, perimeter fencing and pathways systems to provide ADA accessibility to the track facility. Construction over the culverted Tan Brook. New Field Lighting and irrigation.	\$ 4,231,000	\$ 4,738,720

*Cost above Includes 12% Contractors Mobilization, Overhead & Profit; 10% Bid/ Construction Contingency.

Note: Costs reflect master plan level design. The contingency will be adjusted accordingly with the level of design. Prices may vary due to unforeseen conditions and recent spike in construction costs due to Covid-19.



Project:
 AMHERST REGIONAL
 HIGH SCHOOL
 HIGH SCHOOL TRACK



21 MATTOON STREET
 AMHERST, MA 01002

Weston & Sampson

427 Main Street,
 Suite 400, Worcester, MA, 01608
 978.977.0110 800.SAMPSON
 www.westonandsampson.com

Consultants:

Revisions:

No.	Date	Description

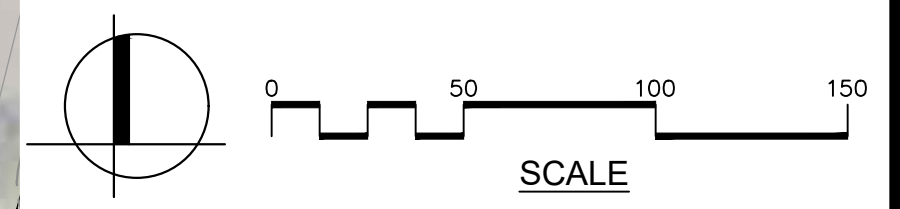
Seal:

Issued For:

Scale: AS NOTED
 Date: JANUARY 2022
 Drawn By: EJA
 Reviewed By: RCC
 Approved By: ERB
 W&S Project No:
 W&S File No:

Drawing Title:
 AMHERST H.S.
 OPTION 1A

Sheet Number:



P:\MA\Amherst MA\High School Athletic Facility Design Validation_2021\DWG\Current\Amherst High School Option 1A.dwg

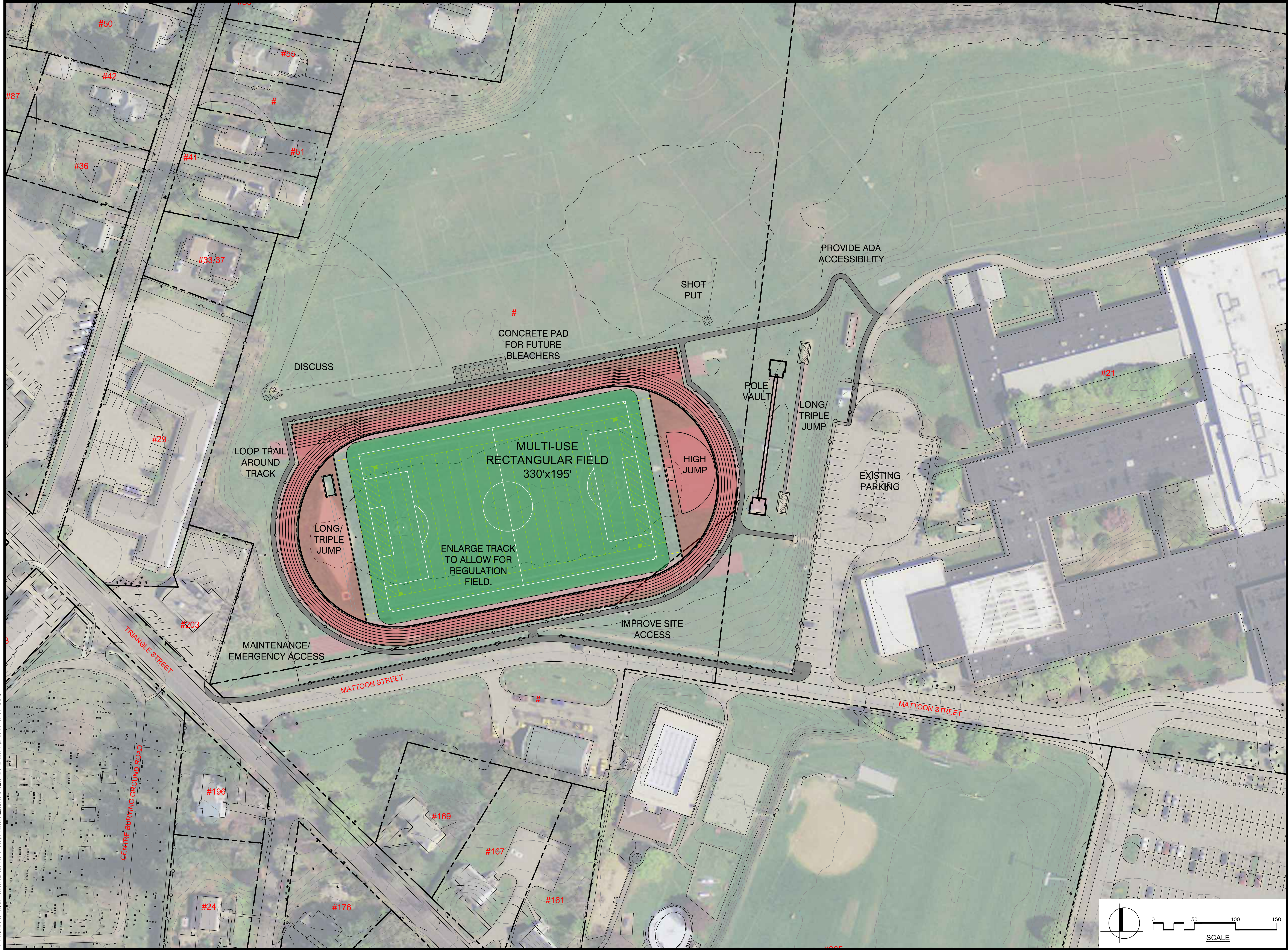
Town of Amherst, MA.
High School- Track Renovation

Draft Opinion of Cost - 02/14/2022


Option 1A- Resurface Existing Track in Place

- DRAFT -

	Qty.	Unit	Unit Cost	Ext Cost
SITE PREPARATION AND DEMOLITION				
Temporary Construction Fence	1,900	LF	\$ 16.00	\$ 30,400
Temporary Construction Entrance	1	LS	\$ 5,000.00	\$ 5,000
Erosion Controls	1,900	LF	\$ 6.00	\$ 11,400
R&D Running Track Surface	5,000	SY	\$ 2.00	\$ 10,000
R&D Bituminous Concrete Pavement Full Depth-(1/3 total area)	1,667	SY	\$ 9.00	\$ 15,000
R&D Running Track Base - 12" depth- (1/3 total area)	556	CY	\$ 35.00	\$ 19,444
R&D Bituminous Concrete Pavement (2" Depth Mill)	5,000	SY	\$ 6.00	\$ 30,000
Miscellaneous Demolition	1	LS	\$ 5,000.00	\$ 5,000
			Subtotal	\$ 126,244
EARTHWORK				
Rough Grading and Compaction	1,667	SY	\$ 3.00	\$ 5,000
			Subtotal	\$ 5,000
SITE IMPROVEMENTS				
Bit Concrete Paving - ADA Pedestrian Walks Complete (3"d)	2,000	SY	\$ 70.00	\$ 140,000
Cement Concrete Paving - Complete	83	SY	\$ 100.00	\$ 8,333
Loam & Seed Disturbed Areas	556	SY	\$ 12.00	\$ 6,667
BVCL Fence - 6' Height	1,100	LF	\$ 75.00	\$ 82,500
BVCL Single Gate -	2	EA	\$ 1,500.00	\$ 3,000
BVCL Double Gate -	2	EA	\$ 3,000.00	\$ 6,000
			Subtotal	\$ 246,500
RUNNING TRACK				
Bituminous Concrete Paving - (2" Depth Overlay)	560	TON	\$ 200.00	\$ 112,000
Processed Aggregate - 6" Depth	278	CY	\$ 50.00	\$ 13,889
Subbase - 6" Depth	278	CY	\$ 40.00	\$ 11,111
Bituminous Concrete Pavement - 4" Depth	373	TON	\$ 200.00	\$ 74,667
Track Surfacing	5,000	SY	\$ 45.00	\$ 225,000
Shot Put / Discuss Circles	2	EA	\$ 10,000.00	\$ 20,000
Long/ Triple Jump	2	LS	\$ 17,500.00	\$ 35,000
Pole Vault Pits	1	LS	\$ 25,000.00	\$ 25,000
High Jump	1	LS	\$ 20,000.00	\$ 20,000
			Subtotal	\$ 536,667
TOTAL ESTIMATED PROGRAM COST:				\$ 914,411
Mobilization, Overhead & Profit 12%				\$ 109,729
Contingency 10%				\$ 91,441
TOTAL ESTIMATED COST:				\$ 1,116,000



Project:
 AMHERST REGIONAL
 HIGH SCHOOL
 HIGH SCHOOL TRACK



21 MATTOON STREET
 AMHERST, MA 01002

Weston & Sampson
 427 Main Street,
 Suite 400, Worcester, MA, 01608
 978.977.0110 800.SAMPSON
 www.westonandsampson.com

Consultants:

Revisions:

No.	Date	Description

Seal:

Issued For:

Scale: AS NOTED
 Date: JANUARY 2022
 Drawn By: EJA
 Reviewed By: RCC
 Approved By: ERB
 W&S Project No:
 W&S File No:

Drawing Title:
 AMHERST H.S.
 OPTION 1B

Sheet Number:

P:\MA\Amherst MA\High School Athletics Facility Design_Visualization_2021\CD\010_Current\Amherst High School Option 1B.dwg

Town of Amherst, MA.
High School- Track Renovation

Draft Opinion of Cost - 02/14/2022

- DRAFT -

Option 1B- Expand Ex. Track in place with New Natural Turf Field

	Qty.	Unit	Unit Cost	Ext Cost
SITE PREPARATION AND DEMOLITION				
Temporary Construction Fence	1,600	LF	\$ 16.00	\$ 25,600
Temporary Construction Entrance	1	LS	\$ 5,000.00	\$ 5,000
Erosion Controls	1,600	LF	\$ 6.00	\$ 9,600
R&D Ex. Running Track Surface	5,000	SY	\$ 2.00	\$ 10,000
R&D Bituminous Concrete Pavement Full Depth- 4" Depth	5,000	SY	\$ 6.00	\$ 30,000
R&D Running Track Base - 3" depth, Existing	231	CY	\$ 35.00	\$ 8,102
R&D Running Track Base - 12" depth, Expanded Footprint	926	CY	\$ 35.00	\$ 32,407
R&D Ex Top Soil- 15" depth	4,630	CY	\$ 35.00	\$ 162,037
Miscellaneous Demolition	1	LS	\$ 5,000.00	\$ 5,000
			Subtotal	\$ 287,746
EARTHWORK				
Rough Grading and Compaction	17,222	SY	\$ 3.00	\$ 51,667
			Subtotal	\$ 51,667
SITE IMPROVEMENTS				
Bit Concrete Paving - ADA Pedestrian Walks Complete (3"d)	1,833	SY	\$ 70.00	\$ 128,333
Cement Concrete Paving - Complete	83	SY	\$ 100.00	\$ 8,333
Loam & Seed Disturbed Areas	1,667	SY	\$ 12.00	\$ 20,000
BVCL Fence - 6' Height	1,100	LF	\$ 75.00	\$ 82,500
BVCL Single Gate -	2	EA	\$ 1,500.00	\$ 3,000
BVCL Double Gate -	2	EA	\$ 3,000.00	\$ 6,000
			Subtotal	\$ 248,167
NATURAL TURF FIELD				
Formation of Subgrade	10,111	SY	\$ 3.00	\$ 30,333
Deep Tine Aerate (16"d)	2	AC	\$ 1,400.00	\$ 2,800
Collector Drain	1,300	LF	\$ 30.00	\$ 39,000
12" Flat Drains (15' OC)	6,000	LF	\$ 9.00	\$ 54,000
3" Peastone Drainage Layer	843	CY	\$ 45.00	\$ 37,917
70/30 RZM (12" d)	3,370	CY	\$ 60.00	\$ 202,222
Fine Grading	10,111	SY	\$ 2.00	\$ 20,222
Inline Drain	6	EA	\$ 1,000.00	\$ 6,000
Drainage Structures	2	EA	\$ 3,500.00	\$ 7,000
Seeding Cost	10,111	SY	\$ 0.75	\$ 7,583
Turf Establishment - Seed	10,111	SY	\$ 10.00	\$ 101,111
Irrigation	91,000	SF	\$ 0.40	\$ 36,400
Goal Posts and Footings	2	EA	\$ 10,000.00	\$ 20,000
Removable Ball Safety Netting	400	LF	\$ 100.00	\$ 40,000
			Subtotal	\$ 604,589
RUNNING TRACK- with "D" Areas				
Processed Aggregate - 3" Depth	231	CY	\$ 50.00	\$ 11,574
Processed Aggregate - 6" Depth	722	CY	\$ 50.00	\$ 36,111
Subbase - 6" Depth	722	CY	\$ 40.00	\$ 28,889
Bituminous Concrete Pavement - 4" Depth	1,593	TON	\$ 200.00	\$ 318,578
Track Surfacing	7,100	SY	\$ 45.00	\$ 319,500

Town of Amherst, MA.
 High School- Track Renovation

Draft Opinion of Cost - 02/14/2022

- DRAFT -

Option 1B- Expand Ex. Track in place with New Natural Turf Field

	Qty.	Unit	Unit Cost	Ext Cost
6" Track Edge Drain (1,300 LF)	1,300	LF	\$ 45.00	\$ 58,500
Shot Put / Discuss Circles	2	EA	\$ 10,000.00	\$ 20,000
Long/ Triple Jump	2	LS	\$ 17,500.00	\$ 35,000
Pole Vault Pits	1	LS	\$ 25,000.00	\$ 25,000
High Jump	1	LS	\$ 20,000.00	\$ 20,000
BVCL Fence - 4' Height	1,600	LF	\$ 55.00	\$ 88,000
BVCL Single Gate - 4' Height	2	EA	\$ 1,500.00	\$ 3,000
BVCL Double Gate - 4' Height	2	EA	\$ 3,000.00	\$ 6,000
			Subtotal	\$ 970,152

ELECTRICAL AND LIGHTING

Field Lighting System	4	EA	\$ 90,000.00	\$ 360,000
Precast Concrete Manhole	1	EA	\$ 4,000.00	\$ 4,000
Electrical Cabinet	1	EA	\$ 7,500.00	\$ 7,500
Conduit and Wire	1	LS	\$ 25,000.00	\$ 25,000
Scoreboard Foundation/Reinstallation	1	EA	\$ 15,000.00	\$ 15,000
Handholes	6	EA	\$ 1,000.00	\$ 6,000
			Subtotal	\$ 417,500

TOTAL ESTIMATED PROGRAM COST:

\$ 2,579,820

Mobilization, Overhead & Profit 12%

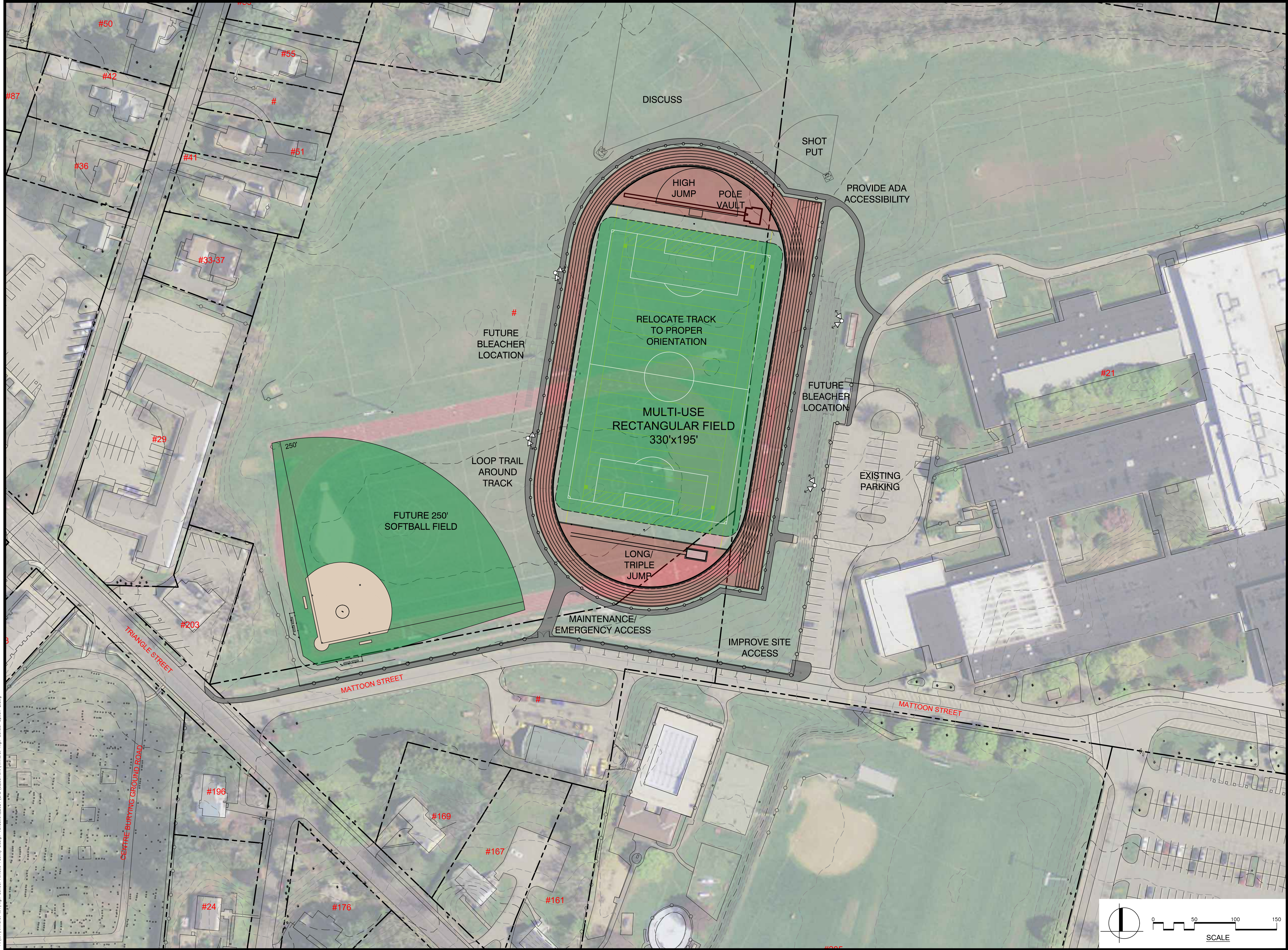
\$ 309,578

Contingency 10%

\$ 257,982

TOTAL ESTIMATED COST:

\$ 3,147,000



Project:
 AMHERST REGIONAL
 HIGH SCHOOL
 HIGH SCHOOL TRACK

21 MATOON STREET
 AMHERST, MA 01002

Weston & Sampson

427 Main Street,
 Suite 400, Worcester, MA, 01608
 978.977.0110 800.SAMPSON
 www.westonandsampson.com

Consultants:

Revisions:

No.	Date	Description

Seal:

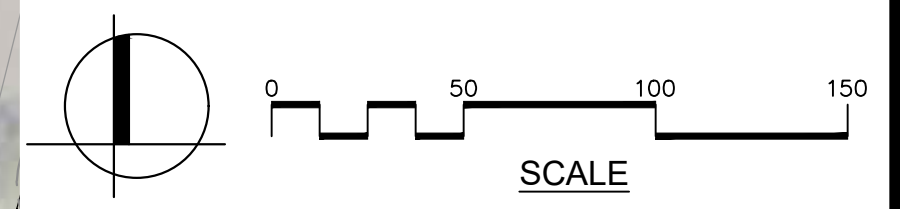
Issued For:

Scale: AS NOTED
 Date: JANUARY 2022
 Drawn By: EJA
 Reviewed By: RCC
 Approved By: ERB

W&S Project No:
 W&S File No:

Drawing Title:
**AMHERST H.S.
 OPTIONS 2 & 3**

Sheet Number:



P:\MA\Amherst MA\High School Athletics Facility Design\Revision_2021\DWG\Current\Amherst High School Option_2.dwg

Town of Amherst, MA.
High School- Track Renovation

Draft Opinion of Cost - 02/14/2022

- DRAFT -

Option 2- Relocate Track N/S with Natural Turf Field

	Qty.	Unit	Unit Cost	Ext Cost
SITE PREPARATION AND DEMOLITION				
Temporary Construction Fence	2,500	LF	\$ 16.00	\$ 40,000
Temporary Construction Entrance	1	LS	\$ 5,000.00	\$ 5,000
Erosion Controls	2,500	LF	\$ 6.00	\$ 15,000
R&D Running Track Surface	5,000	SY	\$ 2.00	\$ 10,000
R&D Bituminous Concrete Pavement Full Depth- 4" Depth	5,000	SY	\$ 6.00	\$ 30,000
R&D Running Track Base - 12" depth	1,667	CY	\$ 35.00	\$ 58,333
R&D Ex Top Soil- 15" depth	7,176	CY	\$ 35.00	\$ 251,157
Miscellaneous Demolition	1	LS	\$ 10,000.00	\$ 10,000
			Subtotal	\$ 419,491
EARTHWORK				
Rough Grading and Compaction	19,444	SY	\$ 3.00	\$ 58,333
			Subtotal	\$ 58,333
SITE IMPROVEMENTS				
Bit Concrete Paving - ADA Pedestrian Walks Complete (3"d)	2,000	SY	\$ 70.00	\$ 140,000
Loam & Seed Disturbed Areas	2,222	SY	\$ 12.00	\$ 26,667
BVCL Fence - 6' Height	1,100	LF	\$ 75.00	\$ 82,500
BVCL Single Gate -	2	EA	\$ 1,500.00	\$ 3,000
BVCL Double Gate -	2	EA	\$ 3,000.00	\$ 6,000
			Subtotal	\$ 258,167
NATURAL TURF FIELD				
Formation of Subgrade	10,111	SY	\$ 3.00	\$ 30,333
Deep Tine Aerate Subgrade (16"d)	2	AC	\$ 1,400.00	\$ 2,800
Collector Drain	1,300	LF	\$ 30.00	\$ 39,000
12" Flat Drains (15' OC)	6,000	LF	\$ 9.00	\$ 54,000
3" Peastone Drainage Layer	843	CY	\$ 45.00	\$ 37,917
70/30 RZM (12" d)	3,370	CY	\$ 60.00	\$ 202,222
Fine Grading	10,111	SY	\$ 2.00	\$ 20,222
Inline Drain	6	EA	\$ 1,000.00	\$ 6,000
Drainage Structures	2	EA	\$ 3,500.00	\$ 7,000
Seeding Cost	10,111	SY	\$ 0.75	\$ 7,583
Turf Establishment - Seed	10,111	SY	\$ 10.00	\$ 101,111
Irrigation	91,000	SF	\$ 0.40	\$ 36,400
Goal Posts and Footings	2	EA	\$ 10,000.00	\$ 20,000
Removable Ball Safety Netting	400	LF	\$ 100.00	\$ 40,000
			Subtotal	\$ 604,589
RUNNING TRACK- with "D" Areas				
Processed Aggregate - 6" Depth	1,185	CY	\$ 50.00	\$ 59,259
Subbase - 6" Depth	1,185	CY	\$ 40.00	\$ 47,407
Bituminous Concrete Pavement - 4" Depth	1,593	TON	\$ 200.00	\$ 318,578
Track Surfacing	7,100	SY	\$ 45.00	\$ 319,500
6" Track Edge Drain (1,300 LF)	1,300	LF	\$ 45.00	\$ 58,500
Shot Put / Discuss Circles	2	EA	\$ 10,000.00	\$ 20,000
Long/ Triple Jump	2	LS	\$ 17,500.00	\$ 35,000

Town of Amherst, MA.
High School- Track Renovation

Draft Opinion of Cost - 02/14/2022

- DRAFT -

Option 2- Relocate Track N/S with Natural Turf Field

	Qty.	Unit	Unit Cost	Ext Cost
Pole Vault Pits	1	LS	\$ 25,000.00	\$ 25,000
High Jump	1	LS	\$ 20,000.00	\$ 20,000
BVCL Fence - 4' Height	1,600	LF	\$ 55.00	\$ 88,000
BVCL Single Gate - 4' Height	2	EA	\$ 1,500.00	\$ 3,000
BVCL Double Gate - 4' Height	2	EA	\$ 3,000.00	\$ 6,000
			Subtotal	\$ 1,000,244

ELECTRICAL AND LIGHTING

Field Lighting System	4	EA	\$ 90,000.00	\$ 360,000
Precast Concrete Manhole	1	EA	\$ 4,000.00	\$ 4,000
Electrical Cabinet	1	EA	\$ 7,500.00	\$ 7,500
Conduit and Wire	1	LS	\$ 25,000.00	\$ 25,000
Scoreboard Foundation/Reinstallation	1	EA	\$ 15,000.00	\$ 15,000
Handholes	6	EA	\$ 1,000.00	\$ 6,000
			Subtotal	\$ 417,500

TOTAL ESTIMATED PROGRAM COST:

\$ 2,758,324

Mobilization, Overhead & Profit 12%

\$ 330,999

Contingency 10%

\$ 275,832

TOTAL ESTIMATED COST:

\$ 3,365,000

Town of Amherst, MA.
High School- Track Renovation

Draft Opinion of Cost - 02/14/2022

- DRAFT -

Option 3- Relocate Track N/S with Synthetic Turf Field

	Qty.	Unit	Unit Cost	Ext Cost
SITE PREPARATION AND DEMOLITION				
Temporary Construction Fence	2,500	LF	\$ 16.00	\$ 40,000
Temporary Construction Entrance	1	LS	\$ 5,000.00	\$ 5,000
Erosion Controls	2,500	LF	\$ 6.00	\$ 15,000
R&D Running Track Surface	5,000	SY	\$ 2.00	\$ 10,000
R&D Bituminous Concrete Pavement Full Depth- 4" Depth	5,000	SY	\$ 6.00	\$ 30,000
R&D Running Track Base - 12" depth	1,667	CY	\$ 35.00	\$ 58,333
R&D Ex Top Soil- 15" depth	7,176	CY	\$ 35.00	\$ 251,157
Miscellaneous Demolition	1	LS	\$ 10,000.00	\$ 10,000
			Subtotal	\$ 419,491
EARTHWORK				
Rough Grading and Compaction	19,444	SY	\$ 3.00	\$ 58,333
			Subtotal	\$ 58,333
SITE IMPROVEMENTS				
Bit Concrete Paving - ADA Pedestrian Walks Complete (3"d)	2,000	SY	\$ 70.00	\$ 140,000
Loam & Seed Disturbed Areas	2,222	SY	\$ 12.00	\$ 26,667
BVCL Fence - 6' Height	1,100	LF	\$ 75.00	\$ 82,500
BVCL Single Gate -	2	EA	\$ 1,500.00	\$ 3,000
BVCL Double Gate -	2	EA	\$ 3,000.00	\$ 6,000
			Subtotal	\$ 258,167
SYNTHETIC TURF FIELD				
Synthetic Turf Field Leveling Stone - 1" Depth	280	CY	\$ 45.00	\$ 12,588
Synthetic Turf Field Drainage Stone - 14" Depth	3910	CY	\$ 45.00	\$ 175,933
Drainage Fabric	10,111	SY	\$ 2.00	\$ 20,222
Compaction	10,111	SY	\$ 2.00	\$ 20,222
Synthetic Turf	91,000	SF	\$ 2.50	\$ 227,500
Alternate Infill	91,000	SF	\$ 2.50	\$ 227,500
Shock Pad	91,000	SF	\$ 2.00	\$ 182,000
Field Perimeter Collector Pipe - 12"	1,300	LF	\$ 28.00	\$ 36,400
Field Lateral Drainage Pipe	6000	LF	\$ 7.50	\$ 45,000
Synthetic Turf Installation	91,000	SF	\$ 4.00	\$ 364,000
Goal Posts and Footings	2	EA	\$ 10,000.00	\$ 20,000
Removable Ball Safety Netting	400	LF	\$ 100.00	\$ 40,000
			Subtotal	\$ 1,371,366
RUNNING TRACK- with "D" Areas				
Processed Aggregate - 6" Depth	1,185	CY	\$ 50.00	\$ 59,259
Subbase - 6" Depth	1,185	CY	\$ 40.00	\$ 47,407
Bituminous Concrete Pavement - 4" Depth	1,593	TON	\$ 200.00	\$ 318,578
Track Surfacing	7,100	SY	\$ 45.00	\$ 319,500
6" Track Edge Drain (1,300 LF)	1,300	LF	\$ 45.00	\$ 58,500
Shot Put / Discuss Circles	2	EA	\$ 10,000.00	\$ 20,000
Long/ Triple Jump	2	LS	\$ 17,500.00	\$ 35,000
Pole Vault Pits	1	LS	\$ 25,000.00	\$ 25,000
High Jump	1	LS	\$ 20,000.00	\$ 20,000

Town of Amherst, MA.
High School- Track Renovation

Draft Opinion of Cost - 02/14/2022

- DRAFT -

Option 3- Relocate Track N/S with Synthetic Turf Field

	Qty.	Unit	Unit Cost	Ext Cost
BVCL Fence - 4' Height	1,600	LF	\$ 55.00	\$ 88,000
BVCL Single Gate - 4' Height	2	EA	\$ 1,500.00	\$ 3,000
BVCL Double Gate - 4' Height	2	EA	\$ 2,000.00	\$ 4,000
			Subtotal	\$ 998,244

ELECTRICAL AND LIGHTING

Field Lighting System	4	EA	\$ 70,000.00	\$ 280,000
Precast Concrete Manhole	1	EA	\$ 4,000.00	\$ 4,000
Electrical Cabinet	1	EA	\$ 7,500.00	\$ 7,500
Conduit and Wire	1	LS	\$ 50,000.00	\$ 50,000
Scoreboard Foundation/Reinstallation	1	EA	\$ 15,000.00	\$ 15,000
Handholes	6	EA	\$ 1,000.00	\$ 6,000
			Subtotal	\$ 362,500

TOTAL ESTIMATED PROGRAM COST:

	\$ 3,468,101
Mobilization, Overhead & Profit 12%	\$ 416,172
Contingency 10%	\$ 346,810

TOTAL ESTIMATED COST:

\$ 4,231,000