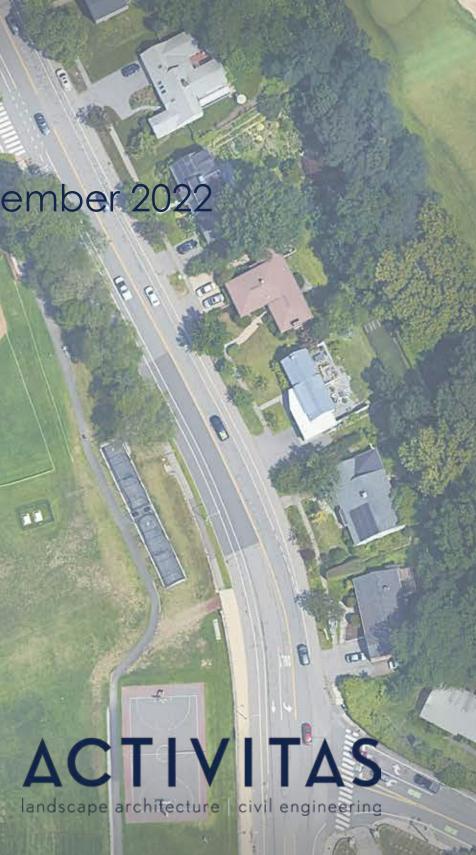
Town of Belmont Grove Street Baseball and Basketball Renovations

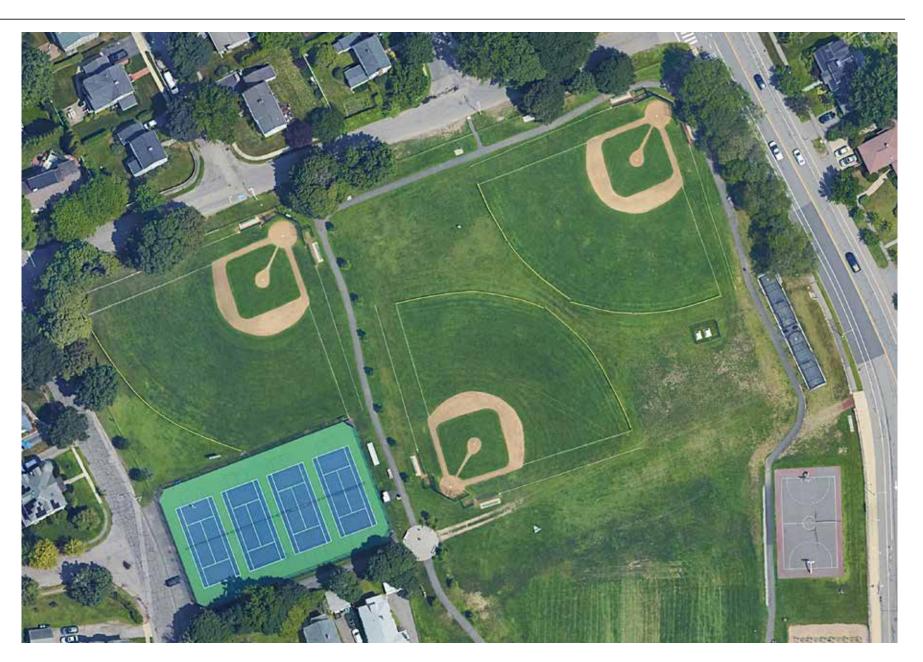
Community Preservation Committee Meeting | 9 November 2022



Grove Street Baseball and Basketball Renovations Meeting | 9 November 2022

AGENDA

- 1. **Review Existing Topsoil Composition**
- 2. Review Natural Grass Field Profiles
- 3. Review Preliminary Design and Associated Opinions of Probable Costs
- 4. Questions | Discussion | Next Steps



Grove Street Baseball and Basketball Renovations Meeting | 9 November 2022

				I	PARTICLE	SIZE (ASTI	M F1632)					
		Gravel			Soil Separate'			Sieve Size / Sand Fraction Sand Particle Diameter % Retained				
Lab ID#	Sample Name	1/4" 6.3 mm	No. 5 4.0 mm	No. 10 2.0 mm	Sand	Silt	Clay	No. 18 V. Coarse 1.0 mm	No. 35 Coarse 0.50 mm	No. 60 Medium 0.25 mm	No. 140 Fine 0.10 mm	No. 270 V. Fine 0.05 mm
48195-1	Baseball #1	0.0	0.7	1.1	64.4	25.5	10.1	5.4	13.3	19.5	16.7	9.4
48195-2	Baseball #2	0.0	0.0	1.2	60.0	28.3	11.6	3.6	10.6	16.1	18.2	11.5
48195-3	Baseball #3	0.1	0.0	0.6	62.6	25.5	12.0	3.2	10.6	18.3	19.4	10.8

Lab ID#	Sample Name	Ksat** in/hr	Bulk Density** g/cc			pH ¹ 1:1	% Organic Matter ² Dry Weight	Textural Class
48195-1	Baseball #1	1.2	1.12			5.4	6.77	Sandy Loam
48195-2	Baseball #2	1.4	1.06			5.8	8.36	Sandy Loam
48195-3	Baseball #3	1.9	1.06			5.7	7.96	Sandy Loam
ASTM F1632 Method B ASTM D48		¹ ASTM D4972, met	hod A, CaCl ₂ , 2	5 g sample used	² ASTM F1647 Method A			

ASTM F1632 Method B

Data reported using USDA definitions of soil classification

** Saturated Hydraulic Conductivity (K-SAT) with compaction energy reduced to 5.75 ft b/sq inch. Field infiltration rates may be lower, if soil is more heavily compacted than lab test conditions. Samples were tested as received and comments pertain only to the samples shown.

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Samples were received with a transmittal letter.

Reviewed by Duane K Otto K Otto Date: 2022-08-19 11:28:11

AVERAGE DEPTH | 3"-5"

CLASSIFICATION | SANDY LOAM

ORGANIC MATTER | 6.77% - 8.36%

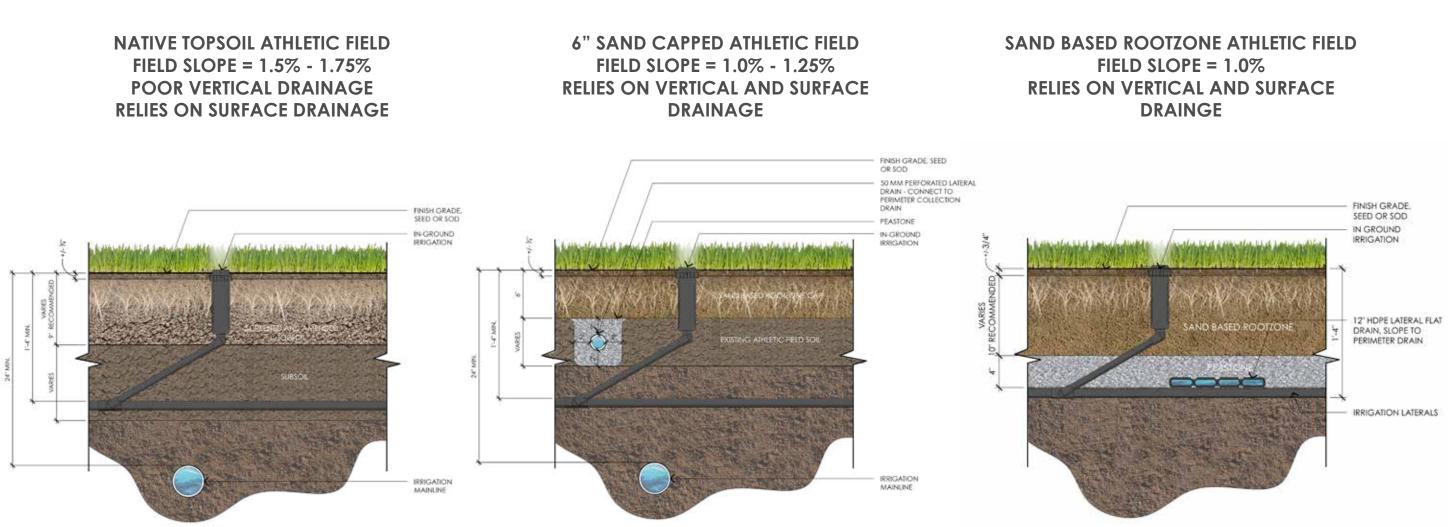
ph | 5.4 - 5.8

RESULTS OF EXISTING TOPSOIL TESTING





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NATURAL GRASS FIELD PROFILES



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NATURAL GRASS SECTION | NATIVE TOPSOIL



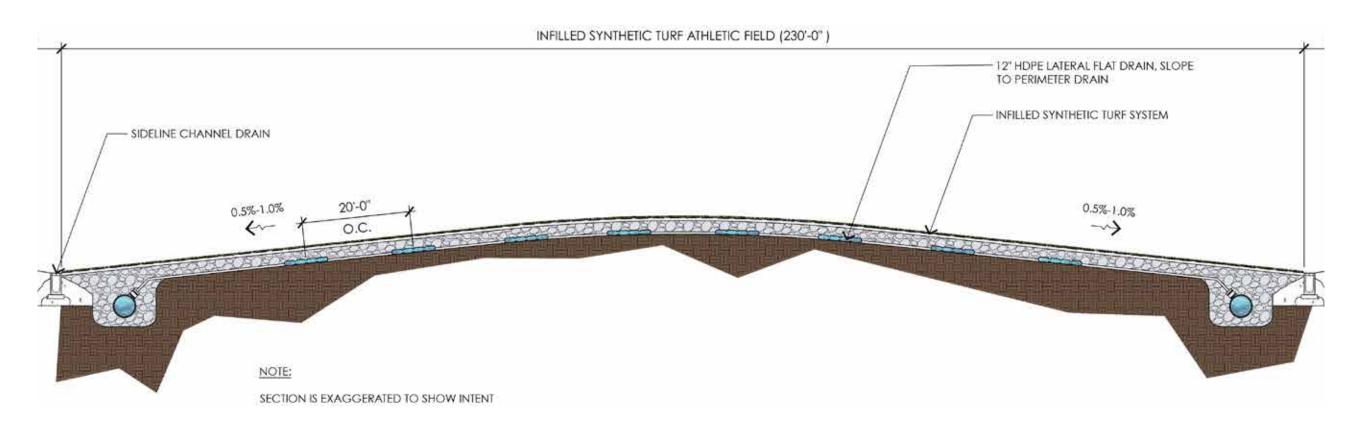


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NATURAL GRASS SECTION | SAND CAP

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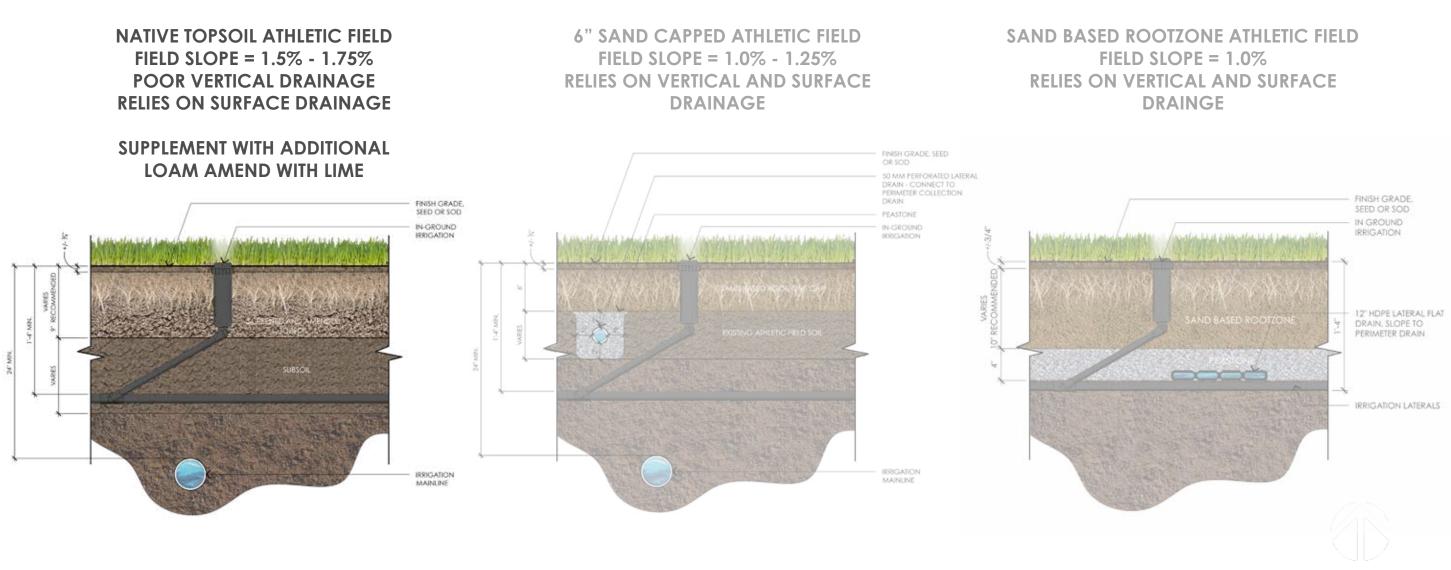


SYNTHETIC TURF SECTION



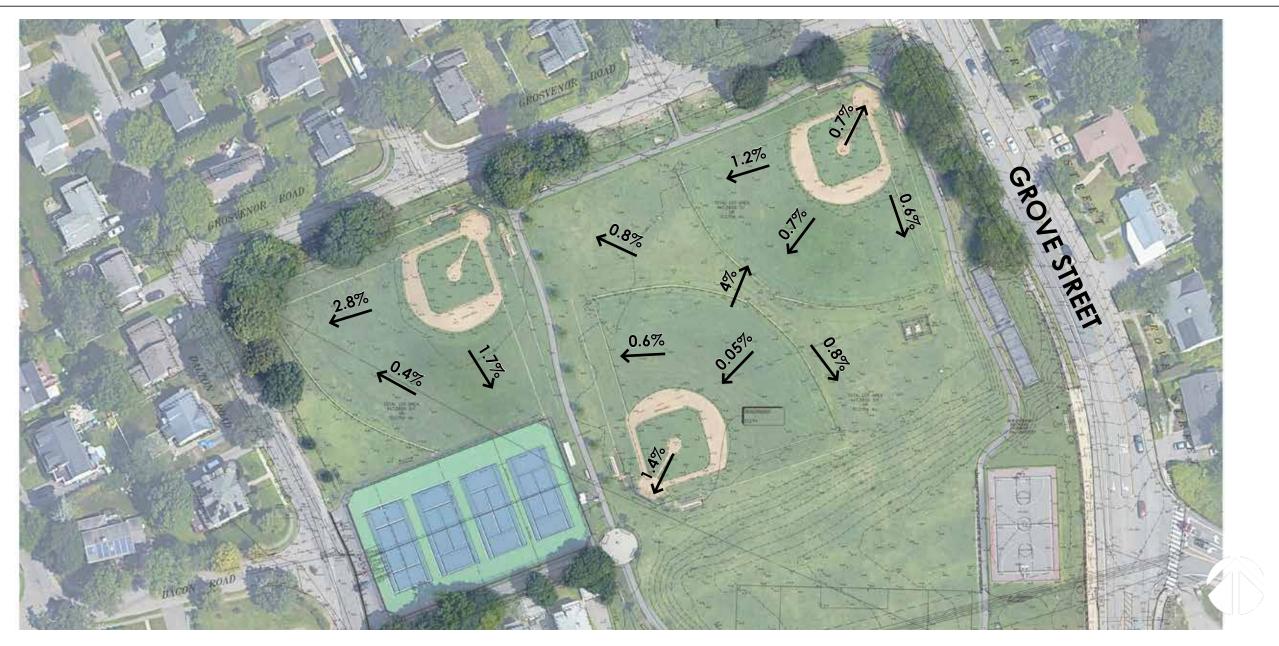


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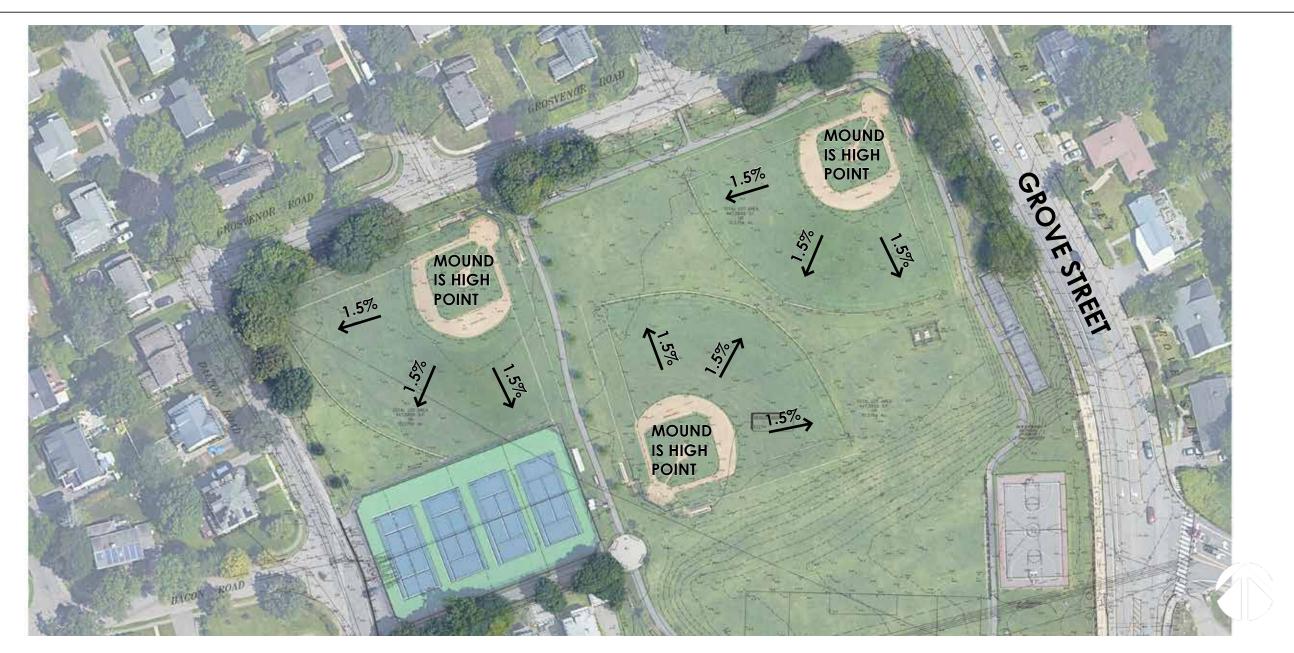
RECOMMNEDED NATURAL GRASS ATHLETIC FIELD PROFILE

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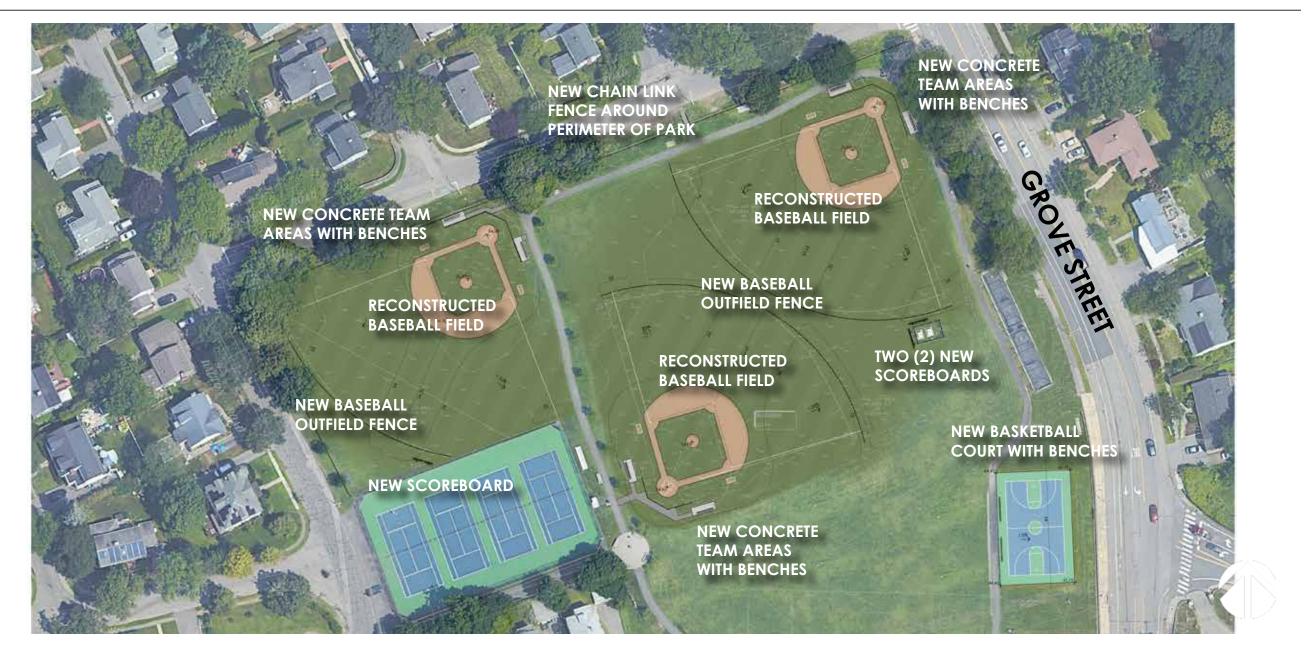
EXISTING CONDITIONS | SLOPE ANALYSIS

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IDEAL BASEBALL FIELD GRADING

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PRELIMINARY DESIGN | INITIAL PROPOSED SITE PLAN

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		Origional Application
00001	MOBILIZATION AND SITE PREPARATION	\$75,308.00
00002	EARTHWORK	\$31,386.54
00003	STORMWATER MANAGEMENT IMPROVEMENTS*	
00003	BASEBALL FIELD IMPROVEMENTS - FIELD 1	\$116,457.57
00004	BASEBALL FIELD IMPROVEMENTS - FIELD 2 & 3	\$270,683.41
00005	BASKETBALL COURT**	\$87,657.40
00006	ELECTRICAL IMPROVEMENTS (3 SCOREBOARDS)***	\$110,000.00
00007	CIRCULATION AND FENCING IMPROVEMENT****	\$68,520.00
	5% General Conditions	\$38,000.65
	10% Contractors Overhead and Profit	\$76,001.29
	CONSTRUCTION SUBTOTAL	\$874,014.86
	20% Project Contingency	\$174,802.97
	10% Soft Costs (Survey, Geotechnical, Design and Construction Administration)	\$87,401.49
	PRELIMINARY OPINION OF PROBABLE COSTS	\$1,136,219.32
8000	ADD ALTERNATE 1 - SOD IN LIEU OF SEED	\$237,910.00
	PRELIMINARY OPINION OF PROBABLE COSTS WITH ADD ALTERNATE 1	\$1,374,129.32
*	Stormwater management to address existing drainage trench installed for Interg	

- * Stormwater management to address existing drainage trench installed for Intergenerational Walkway Project
- ** Adjusted unit costs for pavement
- *** Remove new scoreboards
- **** No new fencing around park

PRELIMINARY OPINION OF PROBABLE PROJECT COSTS

Potential Cost Changes

\$64,020.00 \$67,497.80 \$10,000.00 \$98,889.50 229,728.21 \$42,180.59 \$0.00 \$5,656.00

\$25,898.61 \$51,797.21 **\$595,667.92**

\$119,133.58 \$59,566.79 **\$774,368.30**

\$237,910.00 **\$1,012,278.30**





Questions | Discussion | Next Steps

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BA-618 (5' TALL X 14' WIDE)

BA-2518 (4' TALL X 9' WIDE)

PRECEDENT IMAGES | SCOREBOARDS





