

**Cost Comparison Artificial Turf vs. Natural Turf  
Life Cycle Evaluation for 25 years**

<b>Turf Type</b>	<b>Initial Cost<sup>1</sup></b>	<b>Hours of Use per year<sup>1</sup></b>	<b>Replacement Life years<sup>1</sup></b>	<b>Yearly Sodding Cost per hour<sup>1</sup></b>	<b>Useful Life Cost per hour<sup>2</sup></b>	<b>Effect Maintenance per hour of Use<sup>1</sup></b>	<b>Net Cost<sup>3</sup></b>	<b>Net Cost for 25 years</b>
Natural	\$600,000.00	1040	25	\$19.23	\$23.08	\$43.20	\$85.51	\$85.51
Artificial (Infill Synthetic)	\$1,200,000.00	3120	10	\$0	\$38.46	\$9.60	\$48.06	\$100.92
Est. replacement field <sup>4</sup>	\$600,000.00	3120	10	\$0	\$19.23	\$9.60	\$28.83	
Est. replacement field	\$300,000.00	3120	5	\$0	\$19.23	\$4.80	\$24.03	
Disposal Costs <sup>5</sup>	2 x \$?							

<sup>1</sup>Source = John J. Amato White Paper "Infill Synthetic Turf, Synthetic Turf Use and Life Cycle Evaluation" 2020

<sup>2</sup>Calculation = Initial cost/(hours use/yr x replacement life yr)

<sup>3</sup>Calculation = Yearly Sodding Cost + Useful Life Cost/h + Effect Maintenance /h Use

<sup>4</sup>Estimated replacement field cost as 50% of initial cost; estimated additional 5 years as 50% of the first replacement cost. Sharon Conservation Commission estimated replacement cost of Artificial Turf field as 50% of the initial costs but replacement life was 8 y.

<sup>5</sup>Disposal costs of the Artificial Turf, required twice over a 25-year life cycle time-frame, is unknown