

# ON-SITE TESTING g-MAX IMPACT EVALUATION



## Project Information

<b>Project Name</b>	Charlestown Community Center High School Field ASTM F1936-19 g-max Impact Evaluation			
<b>Client Info</b>	Johanna Hynes 26 High Street Charlestown, MA 02129	<b>Site Info</b>	Charlestown Community Center 255 Medford St Charlestown, MA 02129	
<b>Report Date</b>	7/18/2022	<b>Test Date</b>	7/15/2022	
<b>Report Status</b>	Final	<b>Job no.</b>	97577/7876s	
<b>Prepared by</b>	Michael Rocheleau Field Operations Manager			
<b>Checked by</b>	Jeffrey Gentile Operations Director			

### Notes:

1. This report has been prepared by Firefly Sports Testing with all reasonable skill, care and diligence within the terms of the contract with the Client and within the limitations of the resources devoted to it.
2. This report is confidential to the Client and Firefly Sports Testing accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known. Any such party relies upon the report at their own risk.
3. This report shall not be used for engineering or contractual purposes unless signed by the Author and the Checker and unless the report status is "Final."

## Summary

Firefly Sports Testing was commissioned to perform on-site g-max impact testing per ASTM F1936-19. A complete test was performed in accordance with the ASTM F1936-19 Standard. The results have been summarized in the quick reference table below. Test results herein reflect the performance of the points tested, at the time of testing and at the temperature(s) reported. Complete results and background can be found in the subsequent sections of this report.

### Quick Reference Results Summary

	Average	(min)	Range	(max)	Max per ASTM
<b>Gmax (g's)</b>	<b>203</b>	165	to	<b>249</b>	<b>200</b>
<b>Infill Depth (mm)</b>	26	18	to	31	n/a



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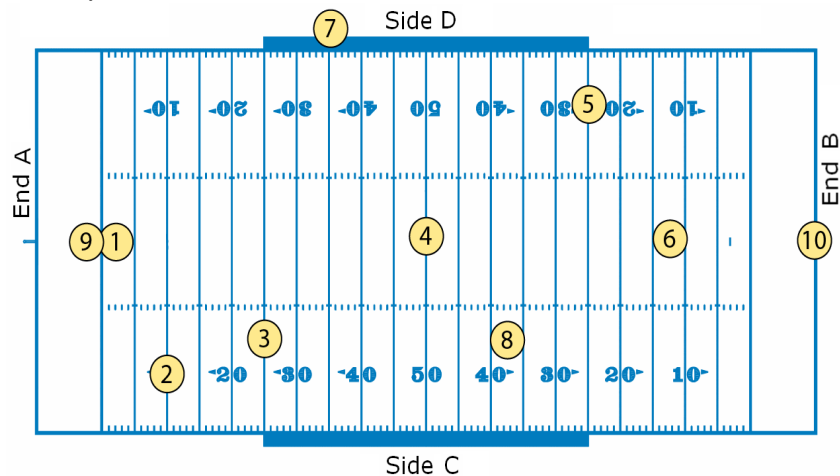
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## General Information

<b>Testing Device</b>	ASTM F1936 Apparatus TRIAx 2010 Data Acquisition	<b>Test Method</b>	ASTM F1936-19 ASTM F355 Procedure A
<b>Install Date</b>	n/p	<b>Test Date</b>	7/15/2022
<b>Field Orientation</b>	End A= Southeast	<b>Primary Sport</b>	Football
<b>Product Info</b>	n/p	<b>Infill System</b>	Rubber and Sand
<b>Underlayment</b>	None	<b>Air Temp (° F)</b>	73
<b>Turf Cover %</b>	n/a	<b>Soil Moisture %</b>	n/a
<b>Humidity %</b>	65	<b>Weather Conditions</b>	Clear & Sunny
<b>Misc Field Notes</b>	None	<b>Technician</b>	JG

## Location Map



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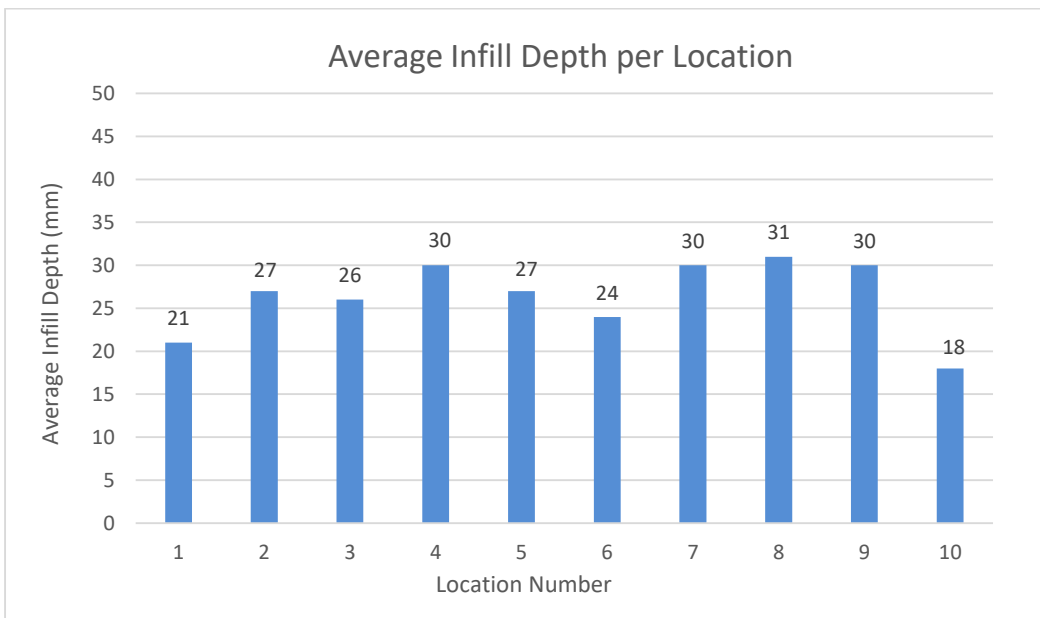
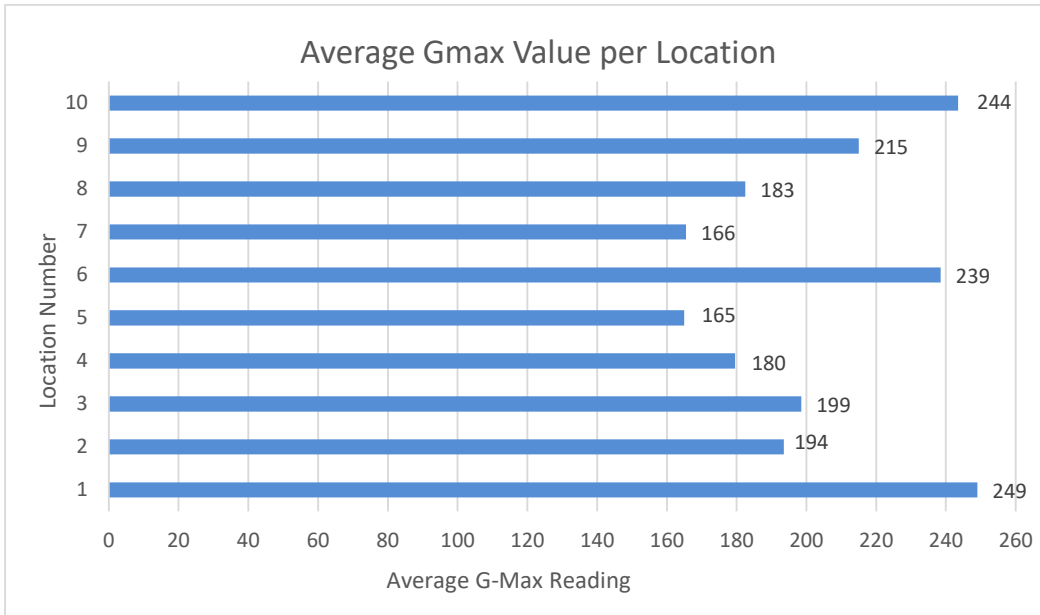


Results Table

Loc #	Drop #	Gmax (g's)	Location Description	Gmax Avg (g's)	Infill Depth (mm)	Surface Temp (°F)
1	1	238	Goal Line, End A, field centerline	249	21	87
	2	248				
	3	250				
2	1	173	10 Yard Line, End A, 63 ft from field centerline to the Side C	194	27	87
	2	192				
	3	195				
3	1	188	25 Yard Line End A, 40 ft from field centerline to Side C	199	26	86
	2	198				
	3	199				
4	1	164	field centerline	180	30	87
	2	177				
	3	182				
5	1	155	25 Yard Line, East end, 63 ft from field centerline to Side D	165	27	89
	2	165				
	3	165				
6	1	229	12 Yard Line, End B, field centerline	239	24	88
	2	236				
	3	241				
7	1	158	North Team area, Side D	166	30	88
	2	165				
	3	166				
8	1	170	37 Yard Line, End B, 40 ft from the field centerline to Side C	183	31	88
	2	182				
	3	183				
9	1	202	6 ft from Goal Line to the back of the End Zone, End A, field centerline	215	30	85
	2	214				
	3	216				
10	1	236	6 ft from the back of the End Zone to the Goal Line, End B, field centerline	244	18	86
	2	245				
	3	242				
<b>Averages:</b>				<b>203</b>	<b>26</b>	<b>87</b>



## Results Graphs



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Overall Photo



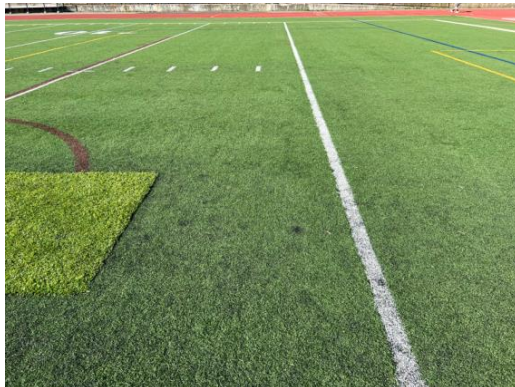
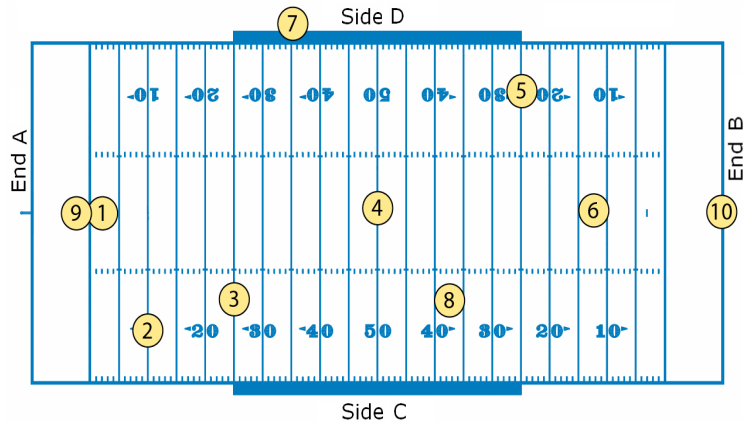


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## Location Photos

Photos have been taken at each location and are displayed in sequence below.



Location #1



Location #2



Location #3



Location #4





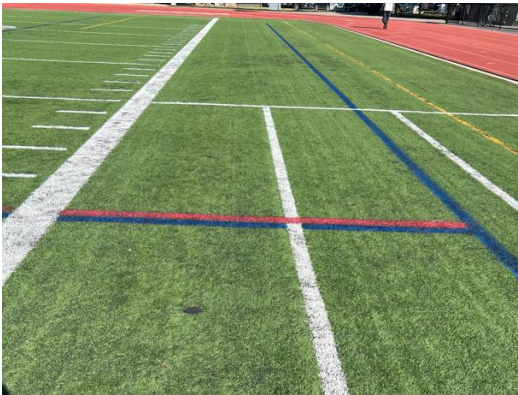
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Location #5



Location #6



Location #7



Location #8



Location #9



Location #10

End of Report

