

Norton Public Schools Master Plan
Option F-2 Schematic Cost Estimate - 10/17/2019
Gale JN: 718090



8-Lane Track and Synthetic Turf Field Construction	\$	2,812,068
Synthetic Turf MPR, Softball, Baseball Construction	\$	4,431,316
Synthetic Turf Baseball & MPR Field Construction	\$	2,576,197
Tennis Courts Construction	\$	642,500
		Total
		\$ 10,462,080

Norton Public Schools Master Plan							
Option F-2 Schematic Cost Estimate- Synthetic Turf Field and 8-Lane Track Construction - 10/17/2019							
Gale JN: 718090							
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	TOTAL COST	REMARKS
1	GENERAL CONDITIONS					\$ 264,261.59	
a	Bonds and Insurance (2 %)	LS	1	\$ 42,376.93	\$ 42,376.93		
b	General Conditions (10 %)	LS	1	\$ 211,884.66	\$ 211,884.66		
c	Mobilization / Demobilization	LS	1	\$ 10,000.00	\$ 10,000.00		
2	EROSION CONTROL / SITE PREPARATION / DEMOLITION					\$ 15,250.00	
a	Silt Fence	LF	750	\$ 5.00	\$ 3,750.00		
b	Temporary Construction Entrance (Assume 8" of Stone)	LS	1	\$ 1,500.00	\$ 1,500.00		
c	Temporary Construction Fencing	LS	1	\$ 10,000.00	\$ 10,000.00		
3	Track Reconstruction					\$ 464,202.70	
a	Pulverize Pavement	CY	527	\$ 8.00	\$ 4,214.32		42,670 SF
b	Strip and Haul Unscreened Topsoil	CY	91	\$ 16.00	\$ 1,453.63		Area of proposed track
c	Misc. Demolition	LS	1	\$ 10,000.00	\$ 10,000.00		40,217 SF
d	Earthwork (Cut & Fill)	LS	1	\$ 20,000.00	\$ 20,000.00		Area of existing track
e	Prepare sub-base, shape and compact	SY	4741	\$ 3.00	\$ 14,223.33		2,453 SF
f	Aggregate Base Course (Dense Grade)	CY	1317	\$ 55.00	\$ 72,433.64		Difference in area
g	Pavement (1.5" Binder course and 1.5" Wearing Course)	SY	4741	\$ 25.00	\$ 118,527.78		
h	Track surfacing (BSS-100 Urethane)	SY	4741	\$ 45.00	\$ 213,350.00		
i	Track Lines / Markings	LS	1	\$ 10,000.00	\$ 10,000.00		
4	Track D-Area Construction					\$ 244,380.65	
a	Strip and Haul Unscreened Topsoil	CY	742	\$ 16.00	\$ 11,876.74		20,042 SF
b	Prepare sub-base, shape and compact	SY	2227	\$ 2.00	\$ 4,453.78		Area of proposed D-Areas
c	Aggregate Base Course (Dense Grade, 10")	TON	928	\$ 35.00	\$ 32,475.46		
d	Pavement (1.5" Binder course and 1.5" Wearing Course)	SY	2227	\$ 25.00	\$ 55,672.22		
e	Track surfacing (BSS-100 Urethane)	SY	2227	\$ 41.00	\$ 91,302.44		
f	Cast in place Concrete Curb with ACO 2000	LF	516	\$ 70.00	\$ 36,120.00		
g	Cast in place Concrete Curb	LF	390	\$ 32.00	\$ 12,480.00		
5	Synthetic MPR Field (Within Track)					\$ 872,434.31	
a	Strip and Haul Unscreened Topsoil (12" assumed)	CY	2964	\$ 16.00	\$ 47,423.41		80,027 SF
b	Prepare sub-base, shape and compact	SY	8892	\$ 2.25	\$ 20,006.75		Area of proposed field
c	Crushed Stone Base under Field (10")	TON	3705	\$ 35.00	\$ 129,673.38		
d	Cast in place Concrete Curb with ACO 4000	LF	780	\$ 75.00	\$ 58,500.00		
e	Geotextile Separation Layer	SY	8892	\$ 2.00	\$ 17,783.78		
f	12" Perf. HDPE	LF	1140	\$ 24.00	\$ 27,360.00		
g	Flat panel drains	LF	3000	\$ 4.00	\$ 12,000.00		
h	Cleanouts (Nyloplast CB's)	EA	4	\$ 1,800.00	\$ 7,200.00		
i	Outlet Control Structures	EA	1	\$ 3,500.00	\$ 3,500.00		
j	Infilled Synthetic Turf Product	SF	80027	\$ 3.00	\$ 240,081.00		Crumb rubber assumed. Alternative infill approx. +\$300k
k	Infilled Synthetic Turf Installation	SF	80027	\$ 1.00	\$ 80,027.00		
l	Shock Pad	SF	80027	\$ 1.00	\$ 80,027.00		
m	Turf Striping	EA	1	\$ 7,000.00	\$ 7,000.00		
n	4' High Perimeter Fence (around track)	LF	1511	\$ 32.00	\$ 48,352.00		
o	4' High Pedestrian Gate in 4' CLF	EA	4	\$ 600.00	\$ 2,400.00		
p	12' Wide CLF Gates in 4' CLF	EA	2	\$ 1,200.00	\$ 2,400.00		
q	16' Slide Gate	EA	1	\$ 1,700.00	\$ 1,700.00		
r	16' Safety Netting	LF	240	\$ 100.00	\$ 24,000.00		
s	MP Field Scoreboard (at track)	LS	1	\$ 35,000.00	\$ 35,000.00		
t	Goalposts	LS	1	\$ 24,000.00	\$ 24,000.00		
u	Players Benches	PR	2	\$ 2,000.00	\$ 4,000.00		
6	Athletic Field Lighting					\$435,000.00	
a	Musco Lighting	EA	4	\$90,000.00	\$360,000.00		
b	MUSCO Athletic Field Lighting Electrical	LS	1	\$75,000.00	\$75,000.00		
7	Walkways					\$ 87,578.89	
a	Prepare sub-base, shape and compact	SY	289	\$ 1.50	\$ 433.33		7,800 SF
b	Gravel Base	TON	361	\$ 35.00	\$ 12,638.89		Area of proposed walkways
c	Pavement (1.5" Binder Course, 1.5" Wearing Course)	SY	867	\$ 28.00	\$ 24,266.67		
d	4' High Perimeter Fence (around walkway)	LF	1570	\$ 32.00	\$ 50,240.00		
						SUBTOTAL: \$ 2,383,108.14	
						SOFT COSTS (8%): \$ 190,648.65	
						CONTINGENCY (10 %): \$ 238,310.81	
						TOTAL: \$ 2,812,067.61	

Norton Public Schools Master Plan							
Option F-2 Schematic Cost Estimate- Synthetic Turf MPR, Baseball, Softball Field Construction - 10/17/2019							
Gale JN: 718090							
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	TOTAL COST	REMARKS
1	GENERAL CONDITIONS					\$ 395,371.27	
a	Bonds and Insurance (2 %)	LS	1	\$ 64,228.55	\$ 64,228.55		
b	General Conditions (10 %)	LS	1	\$ 321,142.73	\$ 321,142.73		
c	Mobilization / Demobilization	LS	1	\$ 10,000.00	\$ 10,000.00		
2	EROSION CONTROL / SITE PREPARATION / DEMOLITION					\$ 16,500.00	
a	Silt Fence	LF	1,000	\$ 5.00	\$ 5,000.00		
b	Temporary Construction Entrance (Assume 8" of Stone)	LS	1	\$ 1,500.00	\$ 1,500.00		
c	Temporary Construction Fencing	LS	1	\$ 10,000.00	\$ 10,000.00		
3	Synthetic MPR Field					\$ 1,915,187.25	
a	Strip and Haul Unscreened Topsoil (12" assumed)	CY	8052	\$ 12.00	\$ 96,628.00		217,413 SF
b	Prepare sub-base, shape and compact	SY	24157	\$ 2.25	\$ 54,353.25		Area of proposed field
c	Crushed Stone Base under Field (10")	TON	10,065	\$ 36.00	\$ 362,355.00		
d	Cast in place Concrete Curb	LF	2011	\$ 32.00	\$ 64,352.00		
e	Geotextile Separation Layer	SY	24157	\$ 2.00	\$ 48,314.00		
f	12" Perf. HDPE	LF	1170	\$ 24.00	\$ 28,080.00		
g	Flat panel drains	LF	3240	\$ 4.00	\$ 12,960.00		
h	Cleanouts (Nyloplast CB's)	EA	6	\$ 1,800.00	\$ 10,800.00		
i	Outlet Control Structures	EA	1	\$ 3,500.00	\$ 3,500.00		
j	Infilled Synthetic Turf Product	SF	217413	\$ 3.00	\$ 652,239.00		Crumb rubber assumed. Alternative infill approx. +\$300k
k	Infilled Synthetic Turf Installation	SF	217413	\$ 1.00	\$ 217,413.00		
l	Shock Pad	SF	217413	\$ 1.00	\$ 217,413.00		
m	Turf Striping	EA	3	\$ 7,000.00	\$ 21,000.00		Soccer, Men's Lacrosse, Women's Lacrosse
n	4' High Perimeter Fence	LF	2062	\$ 35.00	\$ 72,170.00		
o	4' High Pedestrian Gate in 4' CLF	EA	4	\$ 600.00	\$ 2,400.00		
p	12' Wide CLF Gates in 4' CLF	EA	2	\$ 1,200.00	\$ 2,400.00		
q	16' Slide Gate	EA	1	\$ 1,700.00	\$ 1,700.00		
r	MP Field Scoreboard	LS	1	\$ 35,000.00	\$ 35,000.00		
s	Soccer Goals (with wheel kit)	EA	2	\$ 2,675.00	\$ 5,350.00		
t	Lacrosse Goals (with wheel kit)	EA	2	\$ 1,380.00	\$ 2,760.00		
u	Players Benches	PR	2	\$ 2,000.00	\$ 4,000.00		
4	Softball Fixtures					\$ 123,860.00	
a	25' Backstop	LS	1	\$ 20,000.00	\$ 20,000.00		
b	20' Safety Netting	LF	326	\$ 60.00	\$ 19,560.00		
c	Temporary Outfield Fence	LF	270	\$ 90.00	\$ 24,300.00		
d	Dugouts	EA	2	\$ 20,000.00	\$ 40,000.00		
e	15' Foul Poles	Set	1	\$ 5,000.00	\$ 5,000.00		
f	55'x15' Single Batting Tunnel/Bullpen	EA	1	\$ 15,000.00	\$ 15,000.00		
5	Baseball Fixtures					\$ 195,880.00	
a	Baseball 30' Backstop	LS	1	\$ 30,000.00	\$ 30,000.00		
b	Dugout	EA	2	\$ 25,000.00	\$ 50,000.00		
c	20' Foul Pole with wing	EA	2	\$ 970.00	\$ 1,940.00		
d	Safety Netting	LF	520	\$ 60.00	\$ 31,200.00		
e	Temporary Outfield Fence	LF	386	\$ 90.00	\$ 34,740.00		
f	Portable Pitchers Mound	LS	1	\$ 18,000.00	\$ 18,000.00		
g	75'x15' Double Batting Tunnel/Bullpen	EA	1	\$ 30,000.00	\$ 30,000.00		
6	Athletic Field Lighting					\$960,000.00	
a	Musco Lighting	EA	9	\$90,000.00	\$810,000.00		
b	MUSCO Athletic Field Lighting Electrical	LS	1	\$150,000.00	\$150,000.00		
7	Bleacher Seating					\$ 56,820.00	
a	Concrete Pad	SF	966	\$ 20.00	\$ 19,320.00		
b	Portable Bleachers (Track & Synthetic Turf Field)	SEAT	150	\$ 250.00	\$ 37,500.00		
8	Walkways					\$ 91,733.65	
a	Strip and Haul Unscreened Topsoil (10" assumed)	CY	549	\$ 12.00	\$ 6,592.59		17,800 SF
b	Prepare sub-base, shape and compact	SY	614	\$ 1.50	\$ 920.69		Area accounts for all walkways,
c	Gravel Base	TON	824	\$ 35.00	\$ 28,842.59		
d	Pavement (1.5" Binder Course, 1.5" Wearing Course)	SY	1,978	\$ 28.00	\$ 55,377.78		
						SUBTOTAL: \$ 3,755,352.17	
						SOFT COSTS (8%): \$ 300,428.17	
						CONTINGENCY (10%): \$ 375,535.22	
						TOTAL: \$ 4,431,315.56	

Norton Public Schools Master Plan							
Option F-2 Schematic Cost Estimate- Synthetic Turf Baseball & MPR Field Construction - 10/17/2019							
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ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	TOTAL COST	REMARKS
1	GENERAL CONDITIONS					\$ 240,052.34	
a	Bonds and Insurance (2 %)	LS	1	\$ 38,342.06	\$ 38,342.06		
b	General Conditions (10 %)	LS	1	\$ 191,710.28	\$ 191,710.28		
c	Mobilization / Demobilization	LS	1	\$ 10,000.00	\$ 10,000.00		
2	EROSION CONTROL / SITE PREPARATION / DEMOLITION					\$ 16,500.00	
a	Silt Fence	LF	1,000	\$ 5.00	\$ 5,000.00		
b	Temporary Construction Entrance (Assume 8" of Stone)	LS	1	\$ 1,500.00	\$ 1,500.00		
c	Temporary Construction Fencing	LS	1	\$ 10,000.00	\$ 10,000.00		
3	Synthetic MPR Field					\$ 1,093,222.83	
a	Strip and Haul Unscreened Topsoil (12" assumed)	CY	4346	\$ 12.00	\$ 52,153.78		117,346 SF
b	Prepare sub-base, shape and compact	SY	13038	\$ 2.25	\$ 29,336.50		Area of proposed field
c	Crushed Stone Base under Field (10")	TON	5,433	\$ 36.00	\$ 195,576.67		
d	Cast in place Concrete Curb	LF	1317	\$ 32.00	\$ 42,144.00		
e	Geotextile Separation Layer	SY	13038	\$ 2.00	\$ 26,076.89		
f	12" Perf. HDPE	LF	1140	\$ 24.00	\$ 27,360.00		
g	Flat panel drains	LF	3000	\$ 4.00	\$ 12,000.00		
h	Cleanouts (Nyloplast CB's)	EA	3	\$ 1,800.00	\$ 5,400.00		
i	Outlet Control Structures	EA	1	\$ 3,500.00	\$ 3,500.00		
j	Infilled Synthetic Turf Product	SF	117346	\$ 3.00	\$ 352,038.00		Crumb rubber assumed. Alternative infill approx. +\$300k
k	Infilled Synthetic Turf Installation	SF	117346	\$ 1.00	\$ 117,346.00		
l	Shock Pad	SF	117346	\$ 1.00	\$ 117,346.00		
m	Turf Striping	EA	2	\$ 7,000.00	\$ 14,000.00		Soccer, Men's Lacrosse, Women's Lacrosse
n	4' High Perimeter Fence	LF	1247	\$ 35.00	\$ 43,645.00		
o	4' High Pedestrian Gate in 4' CLF	EA	4	\$ 600.00	\$ 2,400.00		
p	12' Wide CLF Gates in 4' CLF	EA	2	\$ 1,200.00	\$ 2,400.00		
q	16' Slide Gate	EA	1	\$ 1,700.00	\$ 1,700.00		
r	MP Field Scoreboard	LS	1	\$ 35,000.00	\$ 35,000.00		
s	Soccer Goals (with wheel kit)	EA	2	\$ 2,675.00	\$ 5,350.00		
t	Field Hockey Goals (with wheel kit)	EA	2	\$ 2,225.00	\$ 4,450.00		
u	Players Benches	PR	2	\$ 2,000.00	\$ 4,000.00		
4	Baseball Fixtures					\$ 117,380.00	
a	Baseball 30' Backstop	LS	1	\$ 30,000.00	\$ 30,000.00		
b	20' Foul Pole with wing	EA	2	\$ 970.00	\$ 1,940.00		
c	Safety Netting	LF	624	\$ 60.00	\$ 37,440.00		
d	Portable Pitchers Mound	LS	1	\$ 18,000.00	\$ 18,000.00		
e	75'x15' Double Batting Tunnel/Bullpen	EA	1	\$ 30,000.00	\$ 30,000.00		
5	Athletic Field Lighting					\$690,000.00	
a	Musco Lighting	EA	6	\$90,000.00	\$540,000.00		
b	MUSCO Athletic Field Lighting Electrical	LS	1	\$150,000.00	\$150,000.00		
6	Bleacher Seating					\$ 18,940.00	
a	Concrete Pad	SF	322	\$ 20.00	\$ 6,440.00		
b	Portable Bleachers (Track & Synthetic Turf Field)	SEAT	50	\$ 250.00	\$ 12,500.00		
7	Walkways					\$ 7,122.24	
a	Strip and Haul Unscreened Topsoil (10" assumed)	CY	43	\$ 12.00	\$ 511.85		1,382 SF
b	Prepare sub-base, shape and compact	SY	48	\$ 1.50	\$ 71.48		Area accounts for all walkways,
c	Gravel Base	TON	64	\$ 35.00	\$ 2,239.35		
d	Pavement (1.5" Binder Course, 1.5" Wearing Course)	SY	154	\$ 28.00	\$ 4,299.56		
						SUBTOTAL: \$ 2,183,217.42	
						SOFT COSTS (8%): \$ 174,657.39	
						CONTINGENCY (10%): \$ 218,321.74	
						TOTAL: \$ 2,576,196.55	



Norton Public Schools Master Plan

Option F-2 Schematic Cost Estimate- Tennis Court Construction -10/17/2019

Gale JN: 718090

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	TOTAL COST	REMARKS
1	GENERAL CONDITIONS					\$ 64,000.00	
a	Bonds and Insurance (2 %)	LS	1	\$ 9,000.00	\$ 9,000.00		
b	General Conditions (10 %)	LS	1	\$ 45,000.00	\$ 45,000.00		
c	Mobilization / Demobilization	LS	1	\$ 10,000.00	\$ 10,000.00		
2	EROSION CONTROL / SITE PREPARATION / DEMOLITION					\$ 10,000.00	
a	Silt Fence	LF	1,000	\$ 5.00	\$ 5,000.00		
c	Temporary Construction Fencing	LS	1	\$ 5,000.00	\$ 5,000.00		
3	Tennis Courts					\$ 225,000.00	
a	Tennis Courts	EA	5	\$ 45,000.00	\$ 225,000.00		
4	Athletic Field Lighting					\$215,000.00	
a	Musco Lighting	EA	7	\$20,000.00	\$140,000.00		
b	MUSCO Athletic Field Lighting Electrical	LS	1	\$75,000.00	\$75,000.00		
						SUBTOTAL: \$ 514,000.00	
						SOFT COSTS (10%) \$ 51,400.00	
						CONTINGENCY (15 %): \$ 77,100.00	
						TOTAL: \$ 642,500.00	