

**Norton Public Schools Master Plan**  
**Option D Schematic Cost Estimate - 08/14/2019**  
**Gale JN: 718090**



8-Lane Track and Synthetic Turf Field Construction	\$ 2,812,028
Synthetic Turf MPR, Softball, Baseball Construction	\$ 4,413,644
Amenities Building & Covered Pavilion Construction	\$ 988,978
Tennis Courts Construction	\$ 341,500
Additional Parking	\$ 283,104
Natural Grass "Pit Field" Reconstruction	\$ 707,793
Total	\$ 9,547,047

Norton Public Schools Master Plan							
Option D Schematic Cost Estimate- Synthetic Turf Field and 8-Lane Track Construction - 08/14/2019							
Gale JN: 718090							
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	TOTAL COST	REMARKS
<b>1</b>	<b>GENERAL CONDITIONS</b>					<b>\$ 264,258.00</b>	
a	Bonds and Insurance (2 %)	LS	1	\$ 42,376.33	\$ 42,376.33		
b	General Conditions (10 %)	LS	1	\$ 211,881.67	\$ 211,881.67		
c	Mobilization / Demobilization	LS	1	\$ 10,000.00	\$ 10,000.00		
<b>2</b>	<b>EROSION CONTROL / SITE PREPARATION / DEMOLITION</b>					<b>\$ 15,250.00</b>	
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		
<b>3</b>	<b>Track Reconstruction</b>					<b>\$ 464,202.70</b>	
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		
<b>4</b>	<b>Track D-Area Construction</b>					<b>\$ 244,380.65</b>	
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		
<b>5</b>	<b>Synthetic MPR Field (Within Track)</b>					<b>\$ 872,434.31</b>	
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		
<b>6</b>	<b>Athletic Field Lighting</b>					<b>\$435,000.00</b>	
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		
<b>7</b>	<b>Walkways</b>					<b>\$ 87,549.00</b>	
a	Prepare sub-base, shape and compact	SY	269	\$ 1.50	\$ 403.45		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		
						<b>SUBTOTAL: \$ 2,383,074.67</b>	
						<b>SOFT COSTS (8%): \$ 190,645.97</b>	
						<b>CONTINGENCY (10 %): \$ 238,307.47</b>	
						<b>TOTAL: \$ 2,812,028.11</b>	

Norton Public Schools Master Plan							
Option D Schematic Cost Estimate- Synthetic Turf MPR, Baseball, Softball Field Construction - 08/14/2019							
Gale JN: 718090							
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	TOTAL COST	REMARKS
<b>1</b>	<b>GENERAL CONDITIONS</b>					<b>\$ 395,371.27</b>	
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		
<b>2</b>	<b>EROSION CONTROL / SITE PREPARATION / DEMOLITION</b>					<b>\$ 16,500.00</b>	
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		
<b>3</b>	<b>Synthetic MPR Field</b>					<b>\$ 1,915,187.25</b>	
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		
<b>4</b>	<b>Softball Fixtures</b>					<b>\$ 123,860.00</b>	
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		
<b>5</b>	<b>Baseball Fixtures</b>					<b>\$ 195,880.00</b>	
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		
<b>6</b>	<b>Athletic Field Lighting</b>					<b>\$960,000.00</b>	
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		
<b>7</b>	<b>Bleacher Seating</b>					<b>\$ 56,820.00</b>	
a	Concrete Pad	SF	966	\$ 20.00	\$ 19,320.00		
b	Portable Bleachers (Track & Synthetic Turf Field)	SEAT	150	\$ 250.00	\$ 37,500.00		
<b>8</b>	<b>Walkways</b>					<b>\$ 76,757.36</b>	
a	Strip and Haul Unscreened Topsoil (10" assumed)	CY	460	\$ 12.00	\$ 5,516.30		14,894 SF
b	Prepare sub-base, shape and compact	SY	514	\$ 1.50	\$ 770.38		Area accounts for all walkways,
c	Gravel Base	TON	690	\$ 35.00	\$ 24,133.80		
d	Pavement (1.5" Binder Course, 1.5" Wearing Course)	SY	1,655	\$ 28.00	\$ 46,336.89		
						<b>SUBTOTAL: \$ 3,740,375.88</b>	
						<b>SOFT COSTS (8%): \$ 299,230.07</b>	
						<b>CONTINGENCY (10%): \$ 374,037.59</b>	
						<b>TOTAL: \$ 4,413,643.54</b>	

Norton Public Schools Master Plan							
Option D Schematic Cost Estimate- Amenities Building & Covered Pavilion Construction - 08/14/2019							
Gale JN: 718090							
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	TOTAL COST	REMARKS
<b>1</b>	<b>GENERAL CONDITIONS</b>					<b>\$ 92,363.20</b>	
a	Bonds and Insurance (2 %)	LS	1	\$ 13,727.20	\$ 13,727.20		
b	General Conditions (10 %)	LS	1	\$ 68,636.00	\$ 68,636.00		
c	Mobilization / Demobilization	LS	1	\$ 10,000.00	\$ 10,000.00		
<b>2</b>	<b>Concessions Building</b>					<b>\$ 600,000.00</b>	
a	Cost per SF	SF	1,500	\$ 400.00	\$ 600,000.00		
<b>3</b>	<b>Covered Pavilion/Picnic Area</b>					<b>\$ 51,360.00</b>	
a	Covered Pavilion Structure	LS	1	\$ 50,000.00	\$ 50,000.00		
b	Folding Picnic Table	EA	8	\$ 170.00	\$ 1,360.00		
<b>4</b>	<b>SITE WALKWAYS/LANDSCAPING</b>					<b>\$ 10,000.00</b>	
a	Trees & Shrubs	LS	1	\$ 10,000.00	\$ 10,000.00		
<b>5</b>	<b>UTILITIES</b>					<b>\$ 25,000.00</b>	
a	Water Line w/ Quick Connects	LS	1	\$ 5,000.00	\$ 5,000.00		
b	Electrical (misc. Walkways, Parking)	LS	1	\$ 20,000.00	\$ 20,000.00		
					<b>SUBTOTAL:</b>	<b>\$ 778,723.20</b>	
					<b>SOFT COSTS (12%):</b>	<b>\$ 93,446.78</b>	
					<b>CONTINGENCY (15 %):</b>	<b>\$ 116,808.48</b>	
					<b>TOTAL:</b>	<b>\$ 988,978.46</b>	



Norton Public Schools Master Plan							
Option D Schematic Cost Estimate- Tennis Court Construction - 08/14/2019							
Gale JN: 718090							
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	TOTAL COST	REMARKS
<b>1</b>	<b>GENERAL CONDITIONS</b>					<b>\$ 38,200.00</b>	
a	Bonds and Insurance (2 %)	LS	1	\$ 4,700.00	\$ 4,700.00		
b	General Conditions (10 %)	LS	1	\$ 23,500.00	\$ 23,500.00		
c	Mobilization / Demobilization	LS	1	\$ 10,000.00	\$ 10,000.00		
<b>2</b>	<b>EROSION CONTROL / SITE PREPARATION / DEMOLITION</b>					<b>\$ 10,000.00</b>	
a	Silt Fence	LF	1,000	\$ 5.00	\$ 5,000.00		
c	Temporary Construction Fencing	LS	1	\$ 5,000.00	\$ 5,000.00		
<b>3</b>	<b>Tennis Courts</b>					<b>\$ 225,000.00</b>	
a	Tennis Courts	EA	5	\$ 45,000.00	\$ 225,000.00		
						<b>SUBTOTAL: \$ 273,200.00</b>	
						<b>SOFT COSTS (10%): \$ 27,320.00</b>	
						<b>CONTINGENCY (15 %): \$ 40,980.00</b>	
						<b>TOTAL: \$ 341,500.00</b>	

Norton Public Schools Master Plan							
Option D Schematic Cost Estimate- Additional Parking Construction - 08/14/2019							
Gale JN: 718090							
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	TOTAL COST	REMARKS
<b>1</b>	<b>GENERAL CONDITIONS</b>					<b>\$ 33,194.67</b>	
a	Bonds and Insurance (2 %)	LS	1	\$ 3,865.78	\$ 3,865.78		
b	General Conditions (10 %)	LS	1	\$ 19,328.89	\$ 19,328.89		
c	Mobilization / Demobilization	LS	1	\$ 10,000.00	\$ 10,000.00		
<b>2</b>	<b>EROSION CONTROL / SITE PREPARATION / DEMOLITION</b>					<b>\$ 10,000.00</b>	
a	Silt Fence	LF	1,000	\$ 5.00	\$ 5,000.00		
c	Temporary Construction Fencing	LS	1	\$ 5,000.00	\$ 5,000.00		
<b>3</b>	<b>Parking/Roadway</b>					<b>\$ 183,288.89</b>	
a	Parking	EA	52	\$ 2,800.00	\$ 145,600.00		
b	Dense Grade Base under Roadways (12")	TON	356	\$ 36.00	\$ 12,800.00		
c	Roadways	SY	711	\$ 35.00	\$ 24,888.89		
					<b>SUBTOTAL:</b>	<b>\$ 226,483.56</b>	
					<b>SOFT COSTS (10%):</b>	<b>\$ 22,648.36</b>	
					<b>CONTINGENCY (15 %):</b>	<b>\$ 33,972.53</b>	
					<b>TOTAL:</b>	<b>\$ 283,104.44</b>	



Norton Public Schools Master Plan							
Option D Schematic Cost Estimate- Pit Field Reconstruction - 08/14/2019							
Gale JN: 718090							
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	TOTAL COST	REMARKS
<b>1</b>	<b>GENERAL CONDITIONS</b>					<b>\$ 108,909.73</b>	
a	Bonds and Insurance (2 %)	LS	1	\$ 9,818.29	\$ 9,818.29		
b	General Conditions (10 %)	LS	1	\$ 49,091.44	\$ 49,091.44		
c	Mobilization / Demobilization	LS	1	\$ 50,000.00	\$ 50,000.00		
<b>2</b>	<b>EROSION CONTROL / SITE PREPARATION / DEMOLITION</b>					<b>\$ 10,000.00</b>	
a	Silt Fence	LF	1,000	\$ 5.00	\$ 5,000.00		
c	Temporary Construction Fencing	LS	1	\$ 5,000.00	\$ 5,000.00		
<b>3</b>	<b>Natural Grass MPR Field</b>					<b>\$ 480,914.44</b>	
a	Strip and Haul Unscreened Topsoil (12" assumed)	CY	2956	\$ 16.00	\$ 47,288.89		79,800 SF
b	Earthwork (Cut & Fill)	LS	1	\$ 20,000.00	\$ 20,000.00		Area of proposed field
c	Prepare sub-base, shape and compact	SY	8867	\$ 2.25	\$ 19,950.00		
d	Gravel Base under Field (4")	TON	1478	\$ 35.00	\$ 51,722.22		
e	Place and amend root zone materials (8")	CY	1970	\$ 27.00	\$ 53,200.00		
f	Geotextile Separation Layer	SY	8867	\$ 2.00	\$ 17,733.33		
g	12" Perf. HDPE	LF	1140	\$ 24.00	\$ 27,360.00		
h	Flat panel drains	LF	3240	\$ 4.00	\$ 12,960.00		
i	Cleanouts (Nyloplast CB's)	EA	4	\$ 1,800.00	\$ 7,200.00		
j	Outlet Control Structures	EA	1	\$ 3,500.00	\$ 3,500.00		
k	Irrigation- Tap to existing main	LS	1	\$ 6,000.00	\$ 6,000.00		
l	Irrigation System and controller	Zone	16	\$ 2,500.00	\$ 40,000.00		
m	Fine Grade and Sod	SF	79,800	\$ 1.50	\$ 119,700.00		
n	Turf Establishment Requirements	LS	1	\$ 10,000.00	\$ 10,000.00		
o	Turf Striping	EA	1	\$ 3,000.00	\$ 3,000.00		
p	4' High Perimeter Fence	LF	1180	\$ 35.00	\$ 41,300.00		
						<b>SUBTOTAL: \$ 599,824.18</b>	
						<b>SOFT COSTS (8%): \$ 47,985.93</b>	
						<b>CONTINGENCY (10%): \$ 59,982.42</b>	
						<b>TOTAL: \$ 707,792.53</b>	