


Memo

To: Select Board
Finance Committee
Michael Yunits, Town Manager

From: Joseph Baeta, Superintendent of Schools 

Date: January 22, 2021

Subject: Models and Costs – Option C101H

Attached are the two final GALE Associates models and costs for Option C101H. The Design Concept is the same for both including:

- 8-Lane Track and Synthetic Turf Field
- Synthetic Turf MPR, Softball Construction
- Tennis Courts

The difference in the cost of \$5,793,778 and \$6,361,907 is because for the sewer connection and remediation. We have also put the sewer project as a separate article.

cc: Wade Lizotte, Director of Facilities
Matthew Wells, School Business Administrator
Aaron Sumner, Director of Athletics and Student Services
School Committee

Our Mission: Promote individual talents and maximize each student's potential.



Gale Associates, Inc.
Architects and Planners
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Project Manager: Christopher J. Carlini

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CONCEPT

PROJECT
NORTON PUBLIC SCHOOLS
TRACK AND FIELD RENOVATIONS
64 WEST MAIN STREET
NORTON, MA 02766

CLIENT
NORTON PUBLIC SCHOOLS
64 WEST MAIN STREET
NORTON, MA 02766

REVISIONS

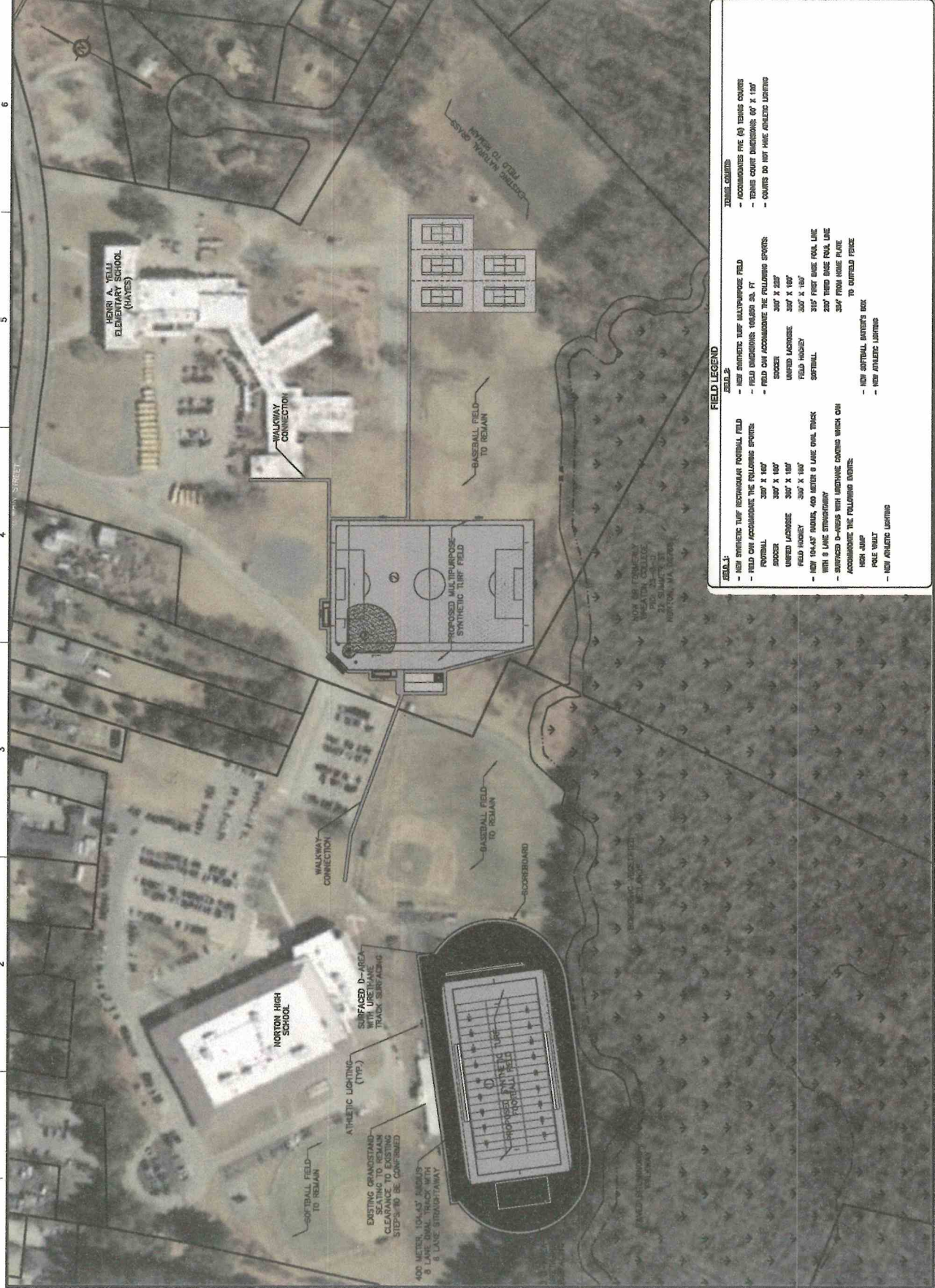
NO.	DATE	DESCRIPTION

CADD FILE	P1800D-C101H
DESIGNED BY	DJM
DRAWN BY	DJM
CHECKED BY	AMP
DATE	11/05/2008
DRAWING SCALE	1" = 100'
GRAPHIC SCALE	1" = 100'
SHEET TITLE	LAYOUT AND MATERIALS PLAN

LAYOUT AND MATERIALS PLAN

DRAWING NO.
C101H

PROJECT NO. 0000



- FIELD #1**
- NEW SYNTHETIC TURF RECTANGULAR FOOTBALL FIELD
 - FIELD ON ACCOMMODATE THE FOLLOWING SPORTS:
 - FOOTBALL 300' X 100'
 - SOCCER 300' X 100'
 - FIELD HOCKEY 300' X 100'
 - UNIFIED LACROSSE 300' X 100'
 - FIELD HOCKEY 300' X 100'
 - FIELD HOCKEY 300' X 100'
 - 400 METER & 1000 METER OVAL TRACK WITH 8 LANE STRAIGHTAWAY
 - SURFACED D-AREA WITH LIGHTING FIXTURES WHICH CAN ACCOMMODATE THE FOLLOWING SPORTS:
 - HIGH JUMP
 - POLE VAULT
 - NEW ATHLETIC LIGHTING
- FIELD #2**
- NEW SYNTHETIC TURF MULTIPURPOSE FIELD
 - FIELD DIMENSIONS: 360' X 120'
 - FIELD CAN ACCOMMODATE THE FOLLOWING SPORTS:
 - SOCCER 300' X 225'
 - UNIFIED LACROSSE 300' X 180'
 - FIELD HOCKEY 300' X 180'
 - SOFTBALL 315' FIRST BASE PAUL LINE 250' THIRD BASE PAUL LINE 354' FROM HOME PLATE TO OUTFIELD FENCE
 - NEW SOFTBALL BATTER'S BOX
 - NEW ATHLETIC LIGHTING
- TENNIS COURTS**
- ACCOMMODATE FIVE (5) TENNIS COURTS
 - TENNIS COURT DIMENSIONS: 60' X 120'
 - COURTS DO NOT HAVE ATHLETIC LIGHTING

1 2 3 4 5 6

E D C B A

Norton Public Schools Master Plan
Option H Schematic Cost Estimate - 12/16/20
Gale JN: 718090



8-Lane Track and Synthetic Turf Field Construction	\$	2,812,068
Synthetic Turf MPR, Softball Construction	\$	2,640,211
Tennis Courts Construction	\$	341,500
	Total \$	5,793,778

Norton Public Schools Master Plan

Option H Schematic Cost Estimate- Synthetic Turf Field and 8-Lane Track Construction - 12/16/20

Gale JN: 718090

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	TOTAL COST
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	
b	Strip and Haul Unscreened Topsoil	CY	91	\$ 16.00	\$ 1,453.63	
c	Misc. Demolition	LS	1	\$ 10,000.00	\$ 10,000.00	
d	Earthwork (Cut & Fill)	LS	1	\$ 20,000.00	\$ 20,000.00	
e	Prepare sub-base, shape and compact	SY	4741	\$ 3.00	\$ 14,223.33	
f	Aggregate Base Course (Dense Grade)	CY	1317	\$ 55.00	\$ 72,433.64	
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	
b	Prepare sub-base, shape and compact	SY	2227	\$ 2.00	\$ 4,453.78	
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	
b	Prepare sub-base, shape and compact	SY	8892	\$ 2.25	\$ 20,006.75	
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	
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						
a	Musco Lighting	EA	4	\$90,000.00	\$360,000.00	\$435,000.00
b	MUSCO Athletic Field Lighting Electrical	LS	1	\$75,000.00	\$75,000.00	
7 Walkways						
a	Prepare sub-base, shape and compact	SY	289	\$ 1.50	\$ 433.33	
b	Gravel Base	TON	361	\$ 35.00	\$ 12,638.89	
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 H Schematic Cost Estimate- Synthetic Turf MPR, Softball Field Construction - 12/16/20


Gale JN: 718090

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	TOTAL COST
1	GENERAL CONDITIONS					\$ 234,778.74
a	Bonds and Insurance (2 %)	LS	1	\$ 37,463.12	\$ 37,463.12	
b	General Conditions (10 %)	LS	1	\$ 187,315.62	\$ 187,315.62	
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					\$ 1,002,796.17
a	Strip and Haul Unscreened Topsoil (12" assumed)	CY	3957	\$ 12.00	\$ 47,488.89	
b	Prepare sub-base, shape and compact	SY	11872	\$ 2.25	\$ 26,712.50	
c	Crushed Stone Base under Field (10")	TON	4,947	\$ 36.00	\$ 178,083.33	
d	Cast in place Concrete Curb	LF	1291	\$ 32.00	\$ 41,312.00	
e	Geotextile Separation Layer	SY	11872	\$ 2.00	\$ 23,744.44	
f	12" Perf. HDPE	LF	575	\$ 24.00	\$ 13,800.00	
g	Flat panel drains	LF	1590	\$ 4.00	\$ 6,360.00	
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	106850	\$ 3.00	\$ 320,550.00	
k	Infilled Synthetic Turf Installation	SF	106850	\$ 1.00	\$ 106,850.00	
l	Shock Pad	SF	106850	\$ 1.00	\$ 106,850.00	
m	Turf Striping	EA	3	\$ 7,000.00	\$ 21,000.00	
n	4' High Perimeter Fence	LF	1341	\$ 35.00	\$ 46,935.00	
o	4' High Pedestrian Gate in 4' CLF	EA	4	\$ 600.00	\$ 2,400.00	
p	12' Wide CLF Gates in 4' CLF	EA	1	\$ 1,200.00	\$ 1,200.00	
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	Athletic Field Lighting					\$730,000.00
a	Musco Lighting	EA	7	\$90,000.00	\$630,000.00	
b	MUSCO Athletic Field Lighting Electrical	LS	1	\$100,000.00	\$100,000.00	
6	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	
7	Walkways					\$ 72,711.80
a	Strip and Haul Unscreened Topsoil (10" assumed)	CY	435	\$ 12.00	\$ 5,225.56	

b	Prepare sub-base, shape and compact	SY	487	\$ 1.50	\$ 729.78	
c	Gravel Base	TON	653	\$ 35.00	\$ 22,861.81	
d	Pavement (1.5" Binder Course, 1.5" Wearing Course)	SY	1,568	\$ 28.00	\$ 43,894.67	
						SUBTOTAL: \$ 2,237,466.71
						SOFT COSTS (8%): \$ 178,997.34
						CONTINGENCY (10%): \$ 223,746.67
						TOTAL: \$ 2,640,210.72



Norton Public Schools Master Plan						
Option H Schematic Cost Estimate- Tennis Court Construction -12/16/20						
Gale JN: 718090						
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	TOTAL COST
1	GENERAL CONDITIONS					\$ 38,200.00
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	
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	
					SUBTOTAL:	\$ 273,200.00
					SOFT COSTS (10%):	\$ 27,320.00
					CONTINGENCY (15 %):	\$ 40,980.00
					TOTAL:	\$ 341,500.00



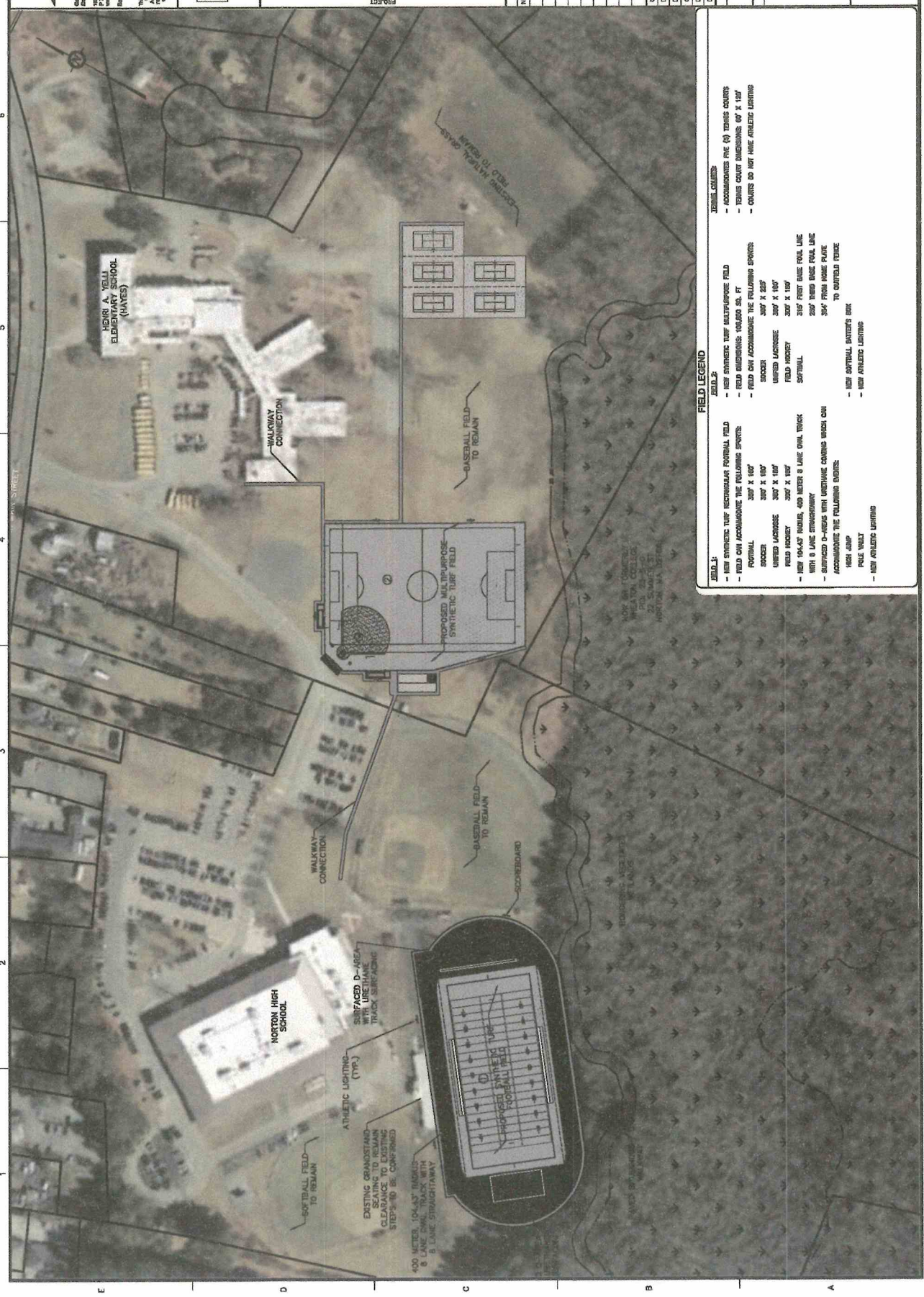
CONCEPT

PROJECT
NORTON PUBLIC SCHOOLS
TRACK AND FIELD RENOVATIONS
64 WEST MAIN STREET
NORTON, MA 02766

OWNER
NORTON PUBLIC SCHOOLS
64 WEST MAIN STREET
NORTON, MA 02766

NO.	DATE	DESCRIPTION

CADD FILE	7/28/2020
DESIGNED BY	DPH
DRAWN BY	DPH
CHECKED BY	AJP
DATE	11/09/2019
DRAWING SCALE	1" = 100'
GRAPHIC SCALE	0' 50' 100'
SHEET TITLE	LAYOUT AND MATERIALS PLAN
DRAWING NO.	C101H
PROJECT NO.	75003



FIELD LEGEND

FIELD 1

- NEW SYNTHETIC TURF MULTIPURPOSE SOFTBALL FIELD
- FIELD CAN ACCOMMODATE THE FOLLOWING EVENTS:
 - SOFTBALL 320' X 160'
 - SOCCER 320' X 160'
 - FIELD HOCKEY 320' X 160'
 - FIELD HOCKEY 320' X 160'
- NEW 16-KAY HOCKEY, 400 METER 8 LANE OVAL TRACK WITH 8 LANE STRAIGHTAWAY
- SURFACED 0-AREA WITH LIGHTWEIGHT COATING WHICH CAN ACCOMMODATE THE FOLLOWING EVENTS:
 - HIGH JUMP
 - POLE VAULT
 - NEW ATHLETIC LIGHTING

FIELD 2

- NEW SYNTHETIC TURF MULTIPURPOSE FIELD
- FIELD CAN ACCOMMODATE THE FOLLOWING EVENTS:
 - SOCCER 320' X 160'
 - FIELD HOCKEY 320' X 160'
 - SOFTBALL 304' FROM HOME PLATE TO OUTFIELD FENCE
 - NEW SOFTBALL BATTERS BOX
 - NEW ATHLETIC LIGHTING

TENNIS COURTS

- ACCOMMODATES FIVE (5) TENNIS COURTS
- TENNIS COURT DIMENSIONS OF 7' X 18'
- COURTS DO NOT HAVE ATHLETIC LIGHTING

Norton Public Schools Master Plan
Option H Schematic Cost Estimate - 12/16/20
Gale JN: 718090



8-Lane Track and Synthetic Turf Field Construction	\$	3,098,041
Synthetic Turf MPR, Softball Construction	\$	2,908,707
Tennis Courts Construction	\$	355,160
	Total \$	6,361,907

Norton Public Schools Master Plan						
Option H Schematic Cost Estimate- Synthetic Turf Field and 8-Lane Track Construction - 12/16/20						
Gale JN: 718090						
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	TOTAL COST
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	
b	Strip and Haul Unscreened Topsoil	CY	91	\$ 16.00	\$ 1,453.63	
c	Misc. Demolition	LS	1	\$ 10,000.00	\$ 10,000.00	
d	Earthwork (Cut & Fill)	LS	1	\$ 20,000.00	\$ 20,000.00	
e	Prepare sub-base, shape and compact	SY	4741	\$ 3.00	\$ 14,223.33	
f	Aggregate Base Course (Dense Grade)	CY	1317	\$ 55.00	\$ 72,433.64	
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	
b	Prepare sub-base, shape and compact	SY	2227	\$ 2.00	\$ 4,453.78	
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	
b	Prepare sub-base, shape and compact	SY	8892	\$ 2.25	\$ 20,006.75	
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	
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	

Norton Public Schools Master Plan						
Option H Schematic Cost Estimate- Synthetic Turf MPR, Softball Field Construction - 12/16/20						
Gale JN: 718090						
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	TOTAL COST
1	GENERAL CONDITIONS					\$ 234,778.74
a	Bonds and Insurance (2 %)	LS	1	\$ 37,463.12	\$ 37,463.12	
b	General Conditions (10 %)	LS	1	\$ 187,315.62	\$ 187,315.62	
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					\$ 1,002,796.17
a	Strip and Haul Unscreened Topsoil (12" assumed)	CY	3957	\$ 12.00	\$ 47,488.89	
b	Prepare sub-base, shape and compact	SY	11872	\$ 2.25	\$ 26,712.50	
c	Crushed Stone Base under Field (10")	TON	4,947	\$ 36.00	\$ 178,083.33	
d	Cast in place Concrete Curb	LF	1291	\$ 32.00	\$ 41,312.00	
e	Geotextile Separation Layer	SY	11872	\$ 2.00	\$ 23,744.44	
f	12" Perf. HDPE	LF	575	\$ 24.00	\$ 13,800.00	
g	Flat panel drains	LF	1590	\$ 4.00	\$ 6,360.00	
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	106850	\$ 3.00	\$ 320,550.00	
k	Infilled Synthetic Turf Installation	SF	106850	\$ 1.00	\$ 106,850.00	
l	Shock Pad	SF	106850	\$ 1.00	\$ 106,850.00	
m	Turf Striping	EA	3	\$ 7,000.00	\$ 21,000.00	
n	4' High Perimeter Fence	LF	1341	\$ 35.00	\$ 46,935.00	
o	4' High Pedestrian Gate in 4' CLF	EA	4	\$ 600.00	\$ 2,400.00	
p	12' Wide CLF Gates in 4' CLF	EA	1	\$ 1,200.00	\$ 1,200.00	
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	Athletic Field Lighting					\$730,000.00
a	Musco Lighting	EA	7	\$90,000.00	\$630,000.00	
b	MUSCO Athletic Field Lighting Electrical	LS	1	\$100,000.00	\$100,000.00	
6	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	
7	Walkways					\$ 72,711.80
a	Strip and Haul Unscreened Topsoil (10" assumed)	CY	435	\$ 12.00	\$ 5,225.56	

b	Prepare sub-base, shape and compact	SY	487	\$ 1.50	\$ 729.78	
c	Gravel Base	TON	653	\$ 35.00	\$ 22,861.81	
d	Pavement (1.5" Binder Course, 1.5" Wearing Course)	SY	1,568	\$ 28.00	\$ 43,894.67	
					SUBTOTAL:	\$ 2,237,466.71
					SOFT COSTS (10%):	\$ 223,746.67
					CONTINGENCY (20%):	\$ 447,493.34
					TOTAL:	\$ 2,908,706.72



Norton Public Schools Master Plan						
Option H Schematic Cost Estimate- Tennis Court Construction -12/16/20						
Gale JN: 718090						
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	TOTAL COST
1	GENERAL CONDITIONS					\$ 38,200.00
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	
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	
					SUBTOTAL:	\$ 273,200.00
					SOFT COSTS (10%):	\$ 27,320.00
					CONTINGENCY (20 %):	\$ 54,640.00
					TOTAL:	\$ 355,160.00