



Milton High School
Lower Field Improvements

HUNTRESS *Sports*



Milton High School
Lower Field Improvements

HUNTRESS *Sports*



Milton High School
Lower Field Improvements

HUNTRESS *Sports*



Milton High School
Lower Field Improvements

HUNTRESS *Sports*



Milton High School
Lower Field Improvements

HUNTRESS *Sports*



Milton High School
Lower Field Improvements

HUNTRESS *Sports*



Epsilon
ASSOCIATES INC.

Figure 2
MassDEP Wetlands Map

Milton High School
Lower Field Improvements

HUNTRESS *Sports*

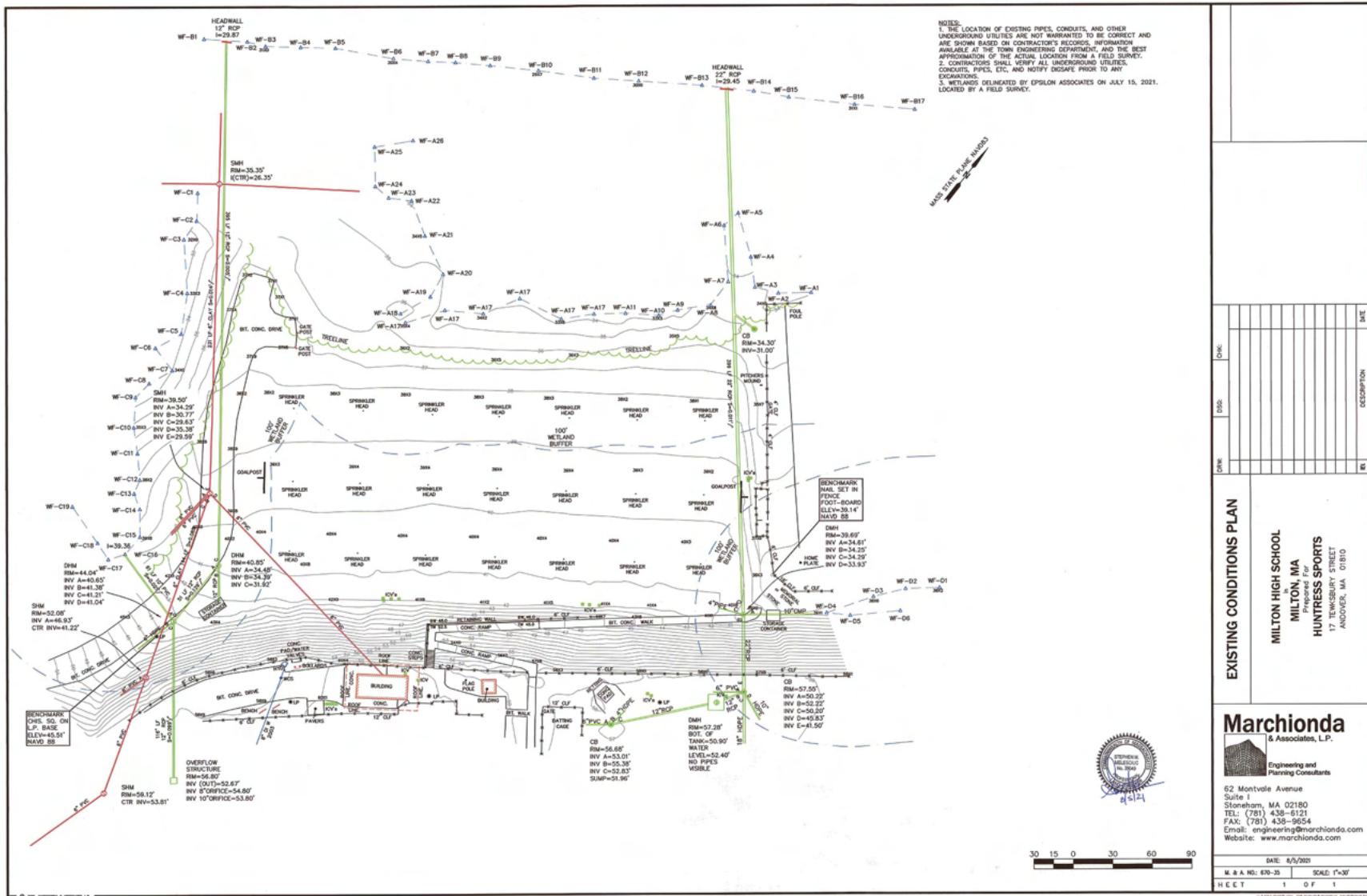


Photo 1 TP-1



Photo 3 TP-2





Milton High School

Lower Field Improvements

HUNTRESS *Sports*

95% CONSTRUCTION DOCUMENTS

Milton High School - Lower Field Improvements

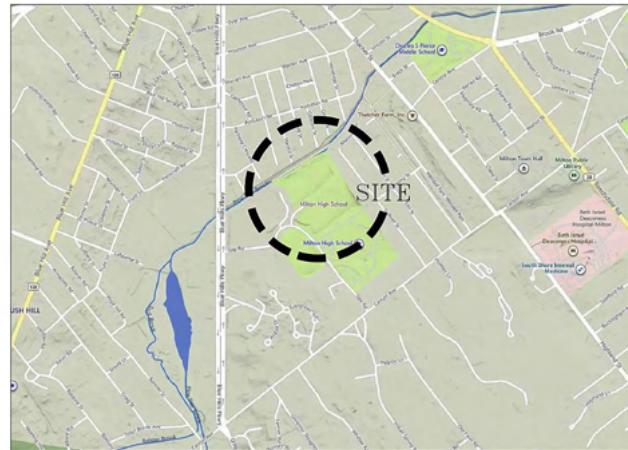
Milton, Massachusetts

December 15, 2021

LIST OF DRAWINGS:

- S-1 EXISTING CONDITIONS PLAN
- SP-1 SITE PREPARATION PLAN
- L-1 LAYOUT & MATERIALS PLAN
- L-2 GRADING & DRAINAGE PLAN
- L-3 LANDSCAPE & PLANTING PLAN
- L-4 ATHLETIC FIELD DETAILS
- L-5 CONSTRUCTION DETAILS
- L-6 CONSTRUCTION DETAILS
- L-7 BLEACHER & PRESSBOX DETAILS

LOCUS PLAN



OWNER:
Town of Milton
525 Canton Avenue
Milton, Massachusetts 02186



LANDSCAPE ARCHITECT:
Huntress Associates, Inc.
17 Tewksbury Street
Andover, Massachusetts 01810
978.470.8882





GRADING & UTILITY NOTES

1. TOPOGRAPHIC PLAN OF LAND IN MILTON, MASSACHUSETTS, PREPARED BY MARCHAND ASSOCIATES LP OF STONEHAM, MASSACHUSETTS, DATED 12/10/01.
2. PRIOR TO THE START OF ANY EXCAVATION FOR THE PROJECT BOTH ON AND OFF THE SITE, THE CONTRACTOR SHALL NOTIFY DISPAGE AND BE PROVIDED WITH A DISPAGE REPORT INDICATING THAT ALL EXISTING UTILITY LOCATIONS ARE IDENTIFIED.
3. WHERE PROPOSED GRADES MEET EXISTING GRADES, CONTRACTOR SHALL SMOOTH EXISTING GRADES AND ADD SMALL SLOPED
BLIND GRADES TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW GRADES. PONDING AT TRANSITION AREAS WILL NOT BE ALLOWED.
4. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL UTILITY FIELDS.
5. MAXIMUM SLOPE IN DISTURBED AREAS SHALL NOT EXCEED 3:1, UNLESS OTHERWISE NOTED.
6. ENSURE ALL EXISTING (TO REMAIN) AND PROPOSED MANHOLES GOVERN PROPERTY LINE AND UTILITY SERVICE.
7. LANDSCAPE ALL VERTICALLY CUT GRADES AND NOTIFY LANDSCAPE ARCHITECT OF ANY DEFECTS.
8. BITUMINOUS CONCRETE ELEVATIONS AT CATCH BASINS TO BE 1/4 INCH ABOVE RIM ELEVATION SHOWN ON CATCH BASIN.
9. CONTRACTOR TO ADJUST UTILITY ELEMENT MEANT TO BE FLUSH PITH
WALLS TO THE EXISTING CATCH BASIN (CATHERINE ST ETC) THAT IS AFFECTED BY SITE PONDS OR GRADE CHANGES, WHETHER SPECIFICALLY NOTED ON PLANS OR NOT.
10. SPECIFIED IMAGES SHOW EXISTING CONDITIONS. FOR ANY EXISTING CONDITIONS NOT SHOWN, CONTRACTOR SHALL DETERMINE IF ANY BUILDINGS AND/OR SITE ELEMENTS, THE EXISTING CONDITION WILL BE RELOCATED, ABANDONED OR ANOTHER CAPPED OR DEMOLISHED AS REQUIRED.

DRAIN STRUCTURE SCHEDULE

NAME	R/M	INV 'W'	INV 'B'	INV 'G'	NOTE
DMH #1	\$1.25	\$3.00	-	-	-
DMH #2	\$1.10	\$4.50	\$4.50	\$5.50	-
DMH #3	\$2.10	\$6.00	\$6.00	\$6.75	-

Pro

Milton High School Lower Field

Milton, Massachusetts

Drawing Tip

Multi-Purpose Field Grading & Drainage

Revision Date

Scale: 1" = 30' Drawing No. **L-2**
 Date: 10.22.21
 Job: 00-101
 File: PR-det
 Drawn: CGH of
 Checked: -- 7

Checked: 7

Milton High School

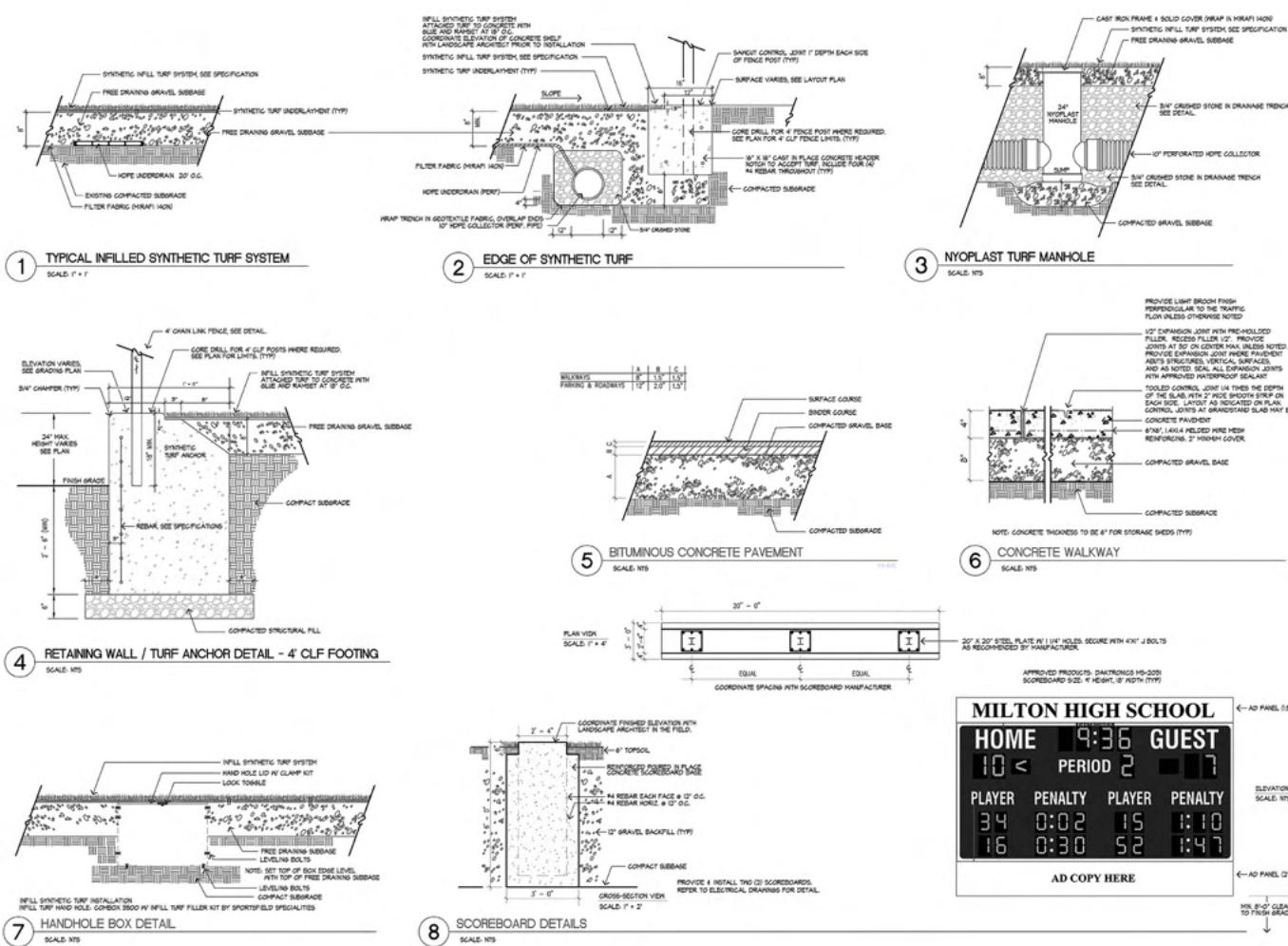
Lower Field Improvements

HUNTRESS *Sports*



Huntress Associates, Inc.
Landscape Architecture & Land Planning

17 Tewksbury Street
Andover, Massachusetts 01810
978-470-8882 FAX 978-470-8899



Project:
**Milton High School
Lower Field**

Milton, Massachusetts

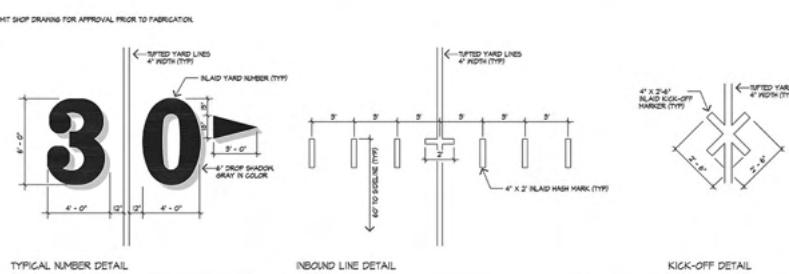
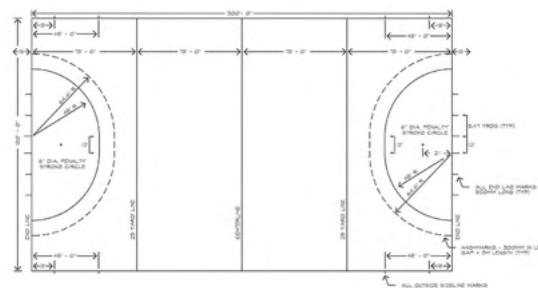
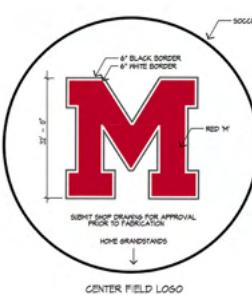
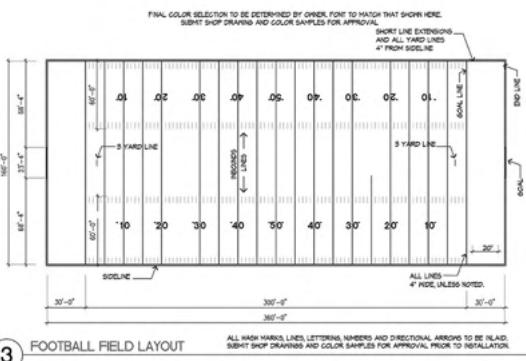
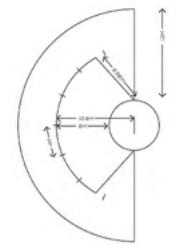
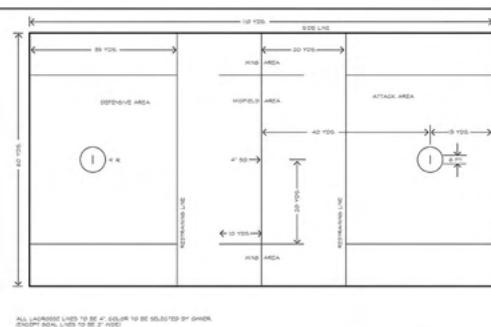
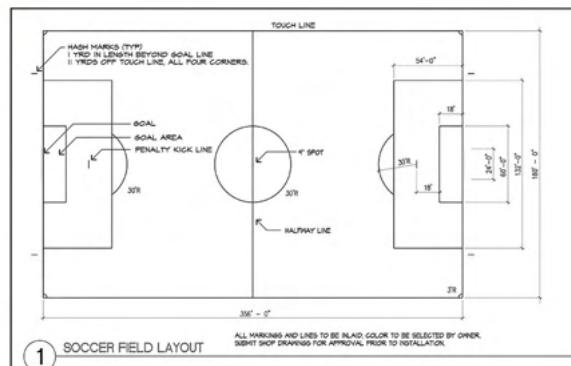
Drawing Title:
**Multi-Purpose Field
Construction Details**

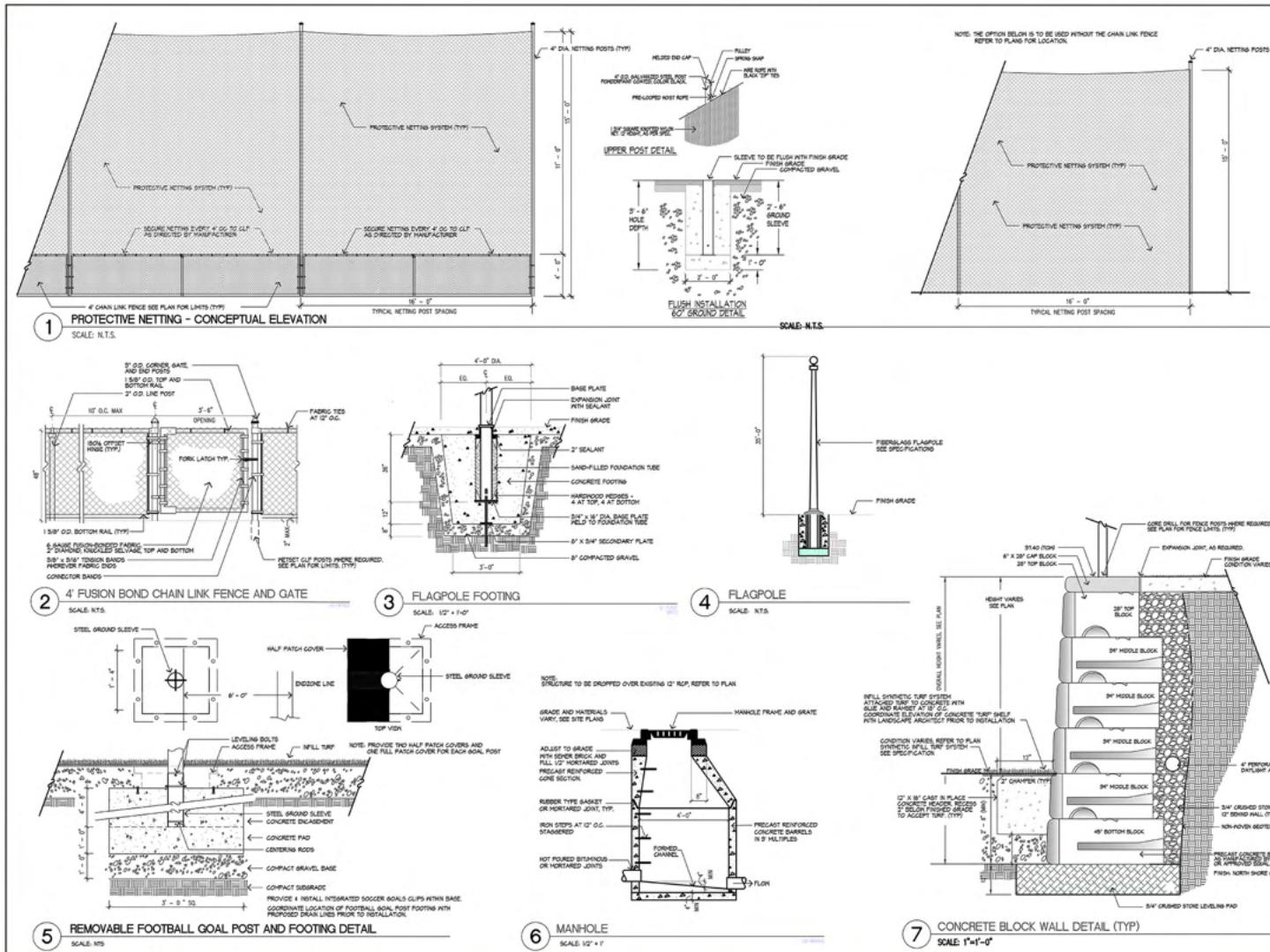
Revision _____
Date _____

Scale: AS NOTED Date: 02-22-21
Job: CO-01 File: PR-001
Drawn: COH Checked: -- Drawing No. L-4
7

Milton High School
Lower Field Improvements

HUNTRESS Sports

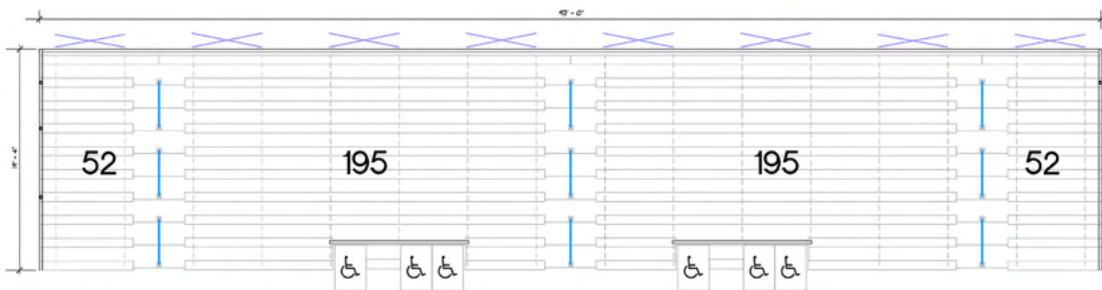




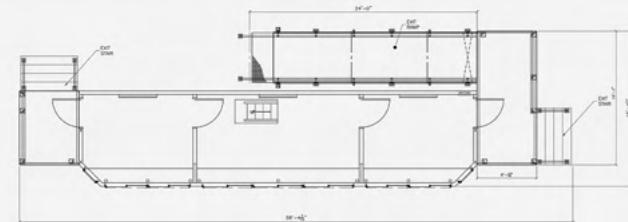
Milton High School

Lower Field Improvements

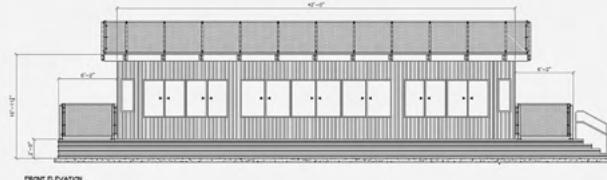
HUNTRESS *Sports*



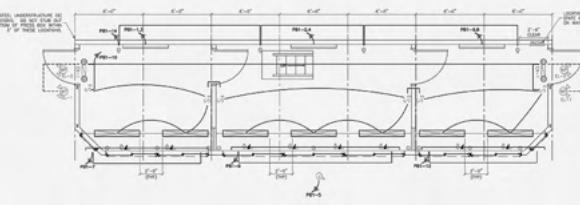
1 NON-ELEVATED BLEACHER - SEATING LAYOUT
SCALE: NTS



FLOORPLAN & LAYOUT



2 PRESSBOX DETAILS
SCALE: NTS



ELECTRICAL PLATE

Project

Milton High School Lower Field

Milton, Massachusetts

Drawing Title:

Multi-Purpose Field Bleacher & Pressbox

Review

Date _____

Scale:	AS NOTED	Drawing No.
Date:	10.22.21	
Job:	CG-07	L-7
File:	PR-481	
Drawn:	CCH	of
Checked:	—	

ESTIMATE OF PROBABLE CONSTRUCTION COSTS

Project: Milton High School - Lower Gile Field

Project Manager: CCH

Client: Milton Public Schools

Plan Title: Milton High School - Lower Field Improvements

Date: November 22, 2021

By: Huntress Associates, Inc.

17 Tewksbury Street

Andover, MA 01810

ITEM	QUANTITY	UNIT	UNIT COST	TOTAL
ATHLETIC FIELD CONSTRUCTION				
GENERAL CONDITIONS				
Construction Bonds & Insurance	1	ls	\$50,000.00	\$ 50,000.00
General Conditions	1	ls	\$20,000.00	\$ 20,000.00
Mobilization & De-mobilization	1	ls	\$20,000.00	\$ 20,000.00
Materials Testing & Lab Expenses	1	ls	\$5,000.00	\$ 5,000.00
Replace unsuitable materials (Allowance)	1	alw	\$5,000.00	\$ 5,000.00
Subtotal				\$ 100,000.00
EARTHWORK & SITE PREPARATION				
Demolition & Site Preparation	1	ls	\$ 60,000.00	\$ 60,000.00
Erosion Control	1	ls	\$ 15,000.00	\$ 15,000.00
Earthwork (Allowance)	1	allow	\$ 125,000.00	\$ 125,000.00
Drainage / Storm water	1	ls	\$ 25,000.00	\$ 25,000.00
Subtotal				\$ 225,000.00
MULTI-PURPOSE SYNTHETIC TURF FIELD				
Athletic Field Gravel Subbase & Drainage	72,000	sf	\$ 4.50	\$ 324,000.00
Artificial Turf - Dual Fiber Infill Turf System	72,000	sf	\$ 5.00	\$ 360,000.00
Artificial Turf - Resilient Underlayment	72,000	sf	\$ 1.65	\$ 118,800.00
Football Goal posts & pads	2	ea	\$ 4,500.00	\$ 9,000.00
Soccer Goals	2	ea	\$ 3,500.00	\$ 7,000.00
4' Chain Link Fence, PVC Coated, Black	1,450	lf	\$ 60.00	\$ 87,000.00
4' Chain Link Fence, Gates (pedestrian)	4	ea	\$ 600.00	\$ 2,400.00
4' Chain Link Fence, Gates (vehicular)	2	ea	\$ 2,500.00	\$ 5,000.00
Sports Lighting (Allowance)	1	alw	\$ 400,000.00	\$ 400,000.00
Sound System, installed	1	ls	\$ 30,000.00	\$ 30,000.00
Flag Pole, installed	1	ls	\$ 7,500.00	\$ 7,500.00
Subtotal				\$ 1,350,700.00
GRANDSTAND & PRESSBOX				
Grandstand - 500 seats, non-elevated	500	seats	\$ 300.00	\$ 150,000.00
Pressbox (8' x 32')	1	ls	\$ 75,000.00	\$ 75,000.00
Pressbox ramps and stairs	1	ls	\$ 25,000.00	\$ 25,000.00
Subtotal				\$ 250,000.00
MISC. SITE CONSTRUCTION				
Retaining Walls	2,500	sf	\$ 65.00	\$ 162,500.00
Concrete walkways	5,500	sf	\$ 12.00	\$ 66,000.00
Planting Plan & Landscape	1	ls	\$ 20,000.00	\$ 20,000.00
Subtotal				\$ 248,500.00
Subtotal				\$ 2,174,200.00
10% Construction Contingency				\$ 217,420.00
TOTAL				\$ 2,391,620.00

SYNTHETIC TURF PRODUCTS

Proposed Synthetic Turf Products & Manufacturers.

1. Woven Synthetic Turf System - IronTurf Ultra Green By Greenfields USA.
2. Organic Infill - BrockFILL by Brock USA
3. Shock Pad - YSR Resilient Underlayment by Brock USA.



BROCKFILL
THE ENGINEERED INFILL FOR ATHLETES

Discussion Topics – Questions we have had to date

Synthetic Turf Field Recycling

1. How is this product different from typical synthetic turf products?



The best way to install a sustainable synthetic turf field is to **think about recycling before the project is built.**

Greenfields USA IronTurf Ultra Green:

Woven turf eliminates heavy backing materials.

Cradle-to-cradle certification.

Committed to recycling the turf installed at Milton High School at end-of-life.

Discussion Topics – Questions we have had to date

Synthetic Turf Field Recycling

1. How is this product different from typical synthetic turf products?



1. *Sustainably grown and harvested in the USA*
2. *100% recyclable at the end of the life.*
3. *Eliminates crumb rubber from your field.*
4. *Reduces heat from a typical synthetic turf field by 33 degrees.*



Discussion Topics – Questions we have had to date

Synthetic Turf Field Recycling

1. How is this product different from typical synthetic turf products?

Objective #3: Identify a resilient shock pad which meets the above criteria, reduces the reliance on infill, and improves player safety and shock attenuation.

Brock Powerbase YSR Resilient Pad

*Cradle-to-Cradle Certified
25 Year Warranty*



1 in 5 concussions in the USA are a result of head to field impact.

A synthetic field with a shock pad can expect up to a 50% reduction in common head injuries associated with head to field impact.

POWERBASE YSR PANEL | TOP VIEW

Thank You