# Guaranteed Maximum Price Amendment

This Amendment dated the 11th day of June in the year 2024, is incorporated into the accompanying AIA Document A133TM\_2019, Standard Form of Agreement Between Owner and Construction Manager as Constructor where the basis of payment is the Cost of the Work Plus a Fee with a Guaranteed Maximum Price dated the 12th day ofJune in the year 2023 (the "Agreement") (In words, indicate day, month, and year.)

for the following PROJECT: (Name and address or location)

Guyer High School Multi-Purpose Building and Renovations

#### THE OWNER:

(Name, legal status, and address) Denton Independent School District 230 N. Mayhill Road Denton, Texas 76208

#### THE CONSTRUCTION MANAGER:

(Name, legal status, and address)

BWC Education Group, LLC 963 S. Loop 340 Waco, Texas 76706

#### TABLE OF ARTICLES

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#### ARTICLE A.1 GUARANTEED MAXIMUM PRICE

# § A.1.1 Guaranteed Maximum Price

Pursuant to Section 3.2.6 of the Agreement, the Owner and Construction Manager hereby amend the Agreement to establish a Guaranteed Maximum Price. As agreed by the Owner and Construction Manager, the Guaranteed Maximum Price is an amount that the Contract Sum shall not exceed. The Contract Sum consists of the Construction Manager's Fee plus the Cost of the Work, as that term is defined in Article 6 of the Agreement.

§ A.1.1.1 The Contract Sum is guaranteed by the Construction Manager not to exceed Thirty-Three Million, Nine HundredNinety-Four Thousand, Eight Hundred Seventy-Five

#### ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An Additions and Deletions Report that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

AIA Document A201™-2017. General Conditions of the Contract for Construction, is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

Dollars (\$ 33,994,875.00), subject to additions and deductions by Change Order as provided in the Contract Documents.

§ A.1.1.2 Itemized Statement of the Guaranteed Maximum Price. Provided below is an itemized statement of the Guaranteed Maximum Price organized by trade categories, including allowances; the Construction Manager's contingency; alternates; the Construction Manager's Fee; and other items that comprise the Guaranteed Maximum Price as defined in Section 3.2.1 of the Agreement.

(Provide itemized statement below or reference an attachment.)

Reference Attachment "A"

§ A.1.1.3 The Construction Manager's Fee is set forth in Section 6.1.2 of the Agreement.

§ A.1.1.4 The method of adjustment of the Construction Manager's Fee for changes in the Work is set forth in Section 6.1.3 of the Agreement.

#### § A.1.1.5 Alternates

§ A.1.1.5.1 Alternates, if any, included in the Guaranteed Maximum Price:

Item **Price** N/A

§ A.1.1.5.2 Subject to the conditions noted below, the following alternates may be accepted by the Owner following execution of this Exhibit A. Upon acceptance, the Owner shall issue a Modification to the Agreement. (Insert below each alternate and the conditions that must be met for the Owner to accept the alternate.)

Item **Price** Conditions for Acceptance N/A

#### § A.1.1.6 Unit prices, if any:

(Identify the item and state the unit price and quantity limitations, if any, to which the unit price will be applicable.)

Item Units and Limitations Price per Unit (\$0.00) N/A

# ARTICLE A.2 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

§ A.2.1 The date of commencement of the Work shall be:

(Check one of the following boxes.)

- [X] The date of execution of this Amendment.
- [ ] Established as follows:

(Insert a date or a means to determine the date of commencement of the Work.)

If a date of commencement of the Work is not selected, then the date of commencement shall be the date of execution of this Amendment.

§ A.2.2 Unless otherwise provided, the Contract Time is the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion of the Work. The Contract Time shall be measured from the date of commencement of the Work.

#### § A.2.3 Substantial Completion

§ A.2.3.1 Subject to adjustments of the Contract Time as provided in the Contract Documents, the Construction Manager shall achieve Substantial Completion of the entire Work:

(Check one of the following boxes and complete the necessary information.)

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물로 100 음 시간 100 HT (100 HT ) 사용 100 HT (100 HT )	·	e date of commencement of	f the Work.
[X] By the following da	ite:		
<b>A.2.3.2</b> Subject to adjustment are to be completed prior to Substantial Completion of su	Substantial Comple	tion of the entire Work, the	ntract Documents, if portions of the Wor e Construction Manager shall achieve
Portion of Work N/A		Substantial Completi	on Date
§ A.2.3.3 If the Construction I liquidated damages, if any, si	Manager fails to acl	nieve Substantial Complet set forth in Section 6.1.6 o	ion as provided in this Section A.2.3, f the Agreement.
ARTICLE A.3 INFORMATION § A.3.1 The Guaranteed Maxi Documents and the following	imum Price and Cor		s Amendment are based on the Contrac
§ A.3.1.1 The following Supp	lementary and othe	r Conditions of the Contra	ct:
Document N/A	Title	Date	Pages
§ A.3.1.2 The following Speci (Either list the Specifications		exhibit attached to this A	mendment.)
Reference Attachment B			
Section	Title	Date	Pages
§ A.3.1.3 The following Draw (Either list the Drawings here		nibit attached to this Amen	dment.)
Reference Attachment "C"			
Number		Title	Date
comprise the Sustainability P Sustainability Plan identifies implementation strategies sel	tainable Objective lan by title, date an and describes the S ected to achieve the ociated with achiev verify achievement	nd number of pages, and in Sustainable Objective; the e Sustainable Measures; the ing the Sustainable Measu of each Sustainable Measu	
Title N/A		Date	Pages
Other identifying information	ı:		
		manta ad Marvinson Duisa.	
<b>§ A.3.1.5</b> Allowances, if any, i (Identify each allowance.)	meruded in the Gua	raniceu iviaximium price:	

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Init.

**User Notes:** 

(3B9ADA44)

Item Price

Reference Attachment A

§ A.3.1.6 Assumptions and clarifications, if any, upon which the Guaranteed Maximum Price is based: (Identify each assumption and clarification.)

Reference Attachment D

§ A.3.1.7 The Guaranteed Maximum Price is based upon the following other documents and information: (List any other documents or information here, or refer to an exhibit attached to this Amendment.)

Addendum # 1 - 5/2/24

# ARTICLE A.4 CONSTRUCTION MANAGER'S CONSULTANTS, CONTRACTORS, DESIGN PROFESSIONALS, AND **SUPPLIERS**

§ A.4.1 The Construction Manager shall retain the consultants, contractors, design professionals, and suppliers, identified below:

(List name, discipline, address, and other information.)

N/A

This Amendment to the Agreement entered into as of the day and year first written above.

	A. Celler
OWNER (Signature)	CONSTRUCTION MANAGER (Signature)
	1 JASON CRUTCHER VP
(Printed name and title)	(Printed name and title)

**User Notes:** 

(3B9ADA44)

Attachment A 1 of 9



Denton ISDTotal Bldg. AreaGuyer HS - Multi-Purpose Building and RenovationsDocuments Dated2/27/202486676

Guyer HS - Multi-Purpose Building and Renovations

Documents Dated 2/27/2024

Denton TX

Date 3/21/2024

Project # 23-045.00

**GMP** 

0005	177.00		LABOR	MATERIAL	QUD.	TOTAL		A/0 5/
CODE	ITEM		LABOR	MATERIAL	SUB	TOTAL		\$/SqFt
02 00 00	Existing Conditions						100,000.00	
02 41 13	Selective Site Demolition		XXXXXX	100,000	XXXXXX	100,000		1.15
3 41 19	Selective Structure Demolition	02 41 13	XXXXXX	XXXXXX	XXXXXX	0		0.00
03 00 00	CONCRETE						2,427,000.00	
03 10 00	Structural Concrete Forming		XXXXXX	50,000	2,377,000	2,427,000		28.00
03 20 00	Concrete Reinforcing	03 10 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
03 31 00	Structural Concrete	03 10 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
03 35 46	Concrete topical Treatments	03 10 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
04 00 00	MASONRY						562,780.00	
04 20 00	Masonry Units		XXXXXX	XXXXXX	562,780	562,780		6.49
05 00 00	METALS						92,720.00	
05 12 00	Structural Steel Framing		XXXXXX	75,000	XXXXXX	75,000		0.87
05 21 0	Steel Joist	13 34 19	XXXXXX	XXXXXX	XXXXXX	0		0.00
05 31 00	Metal Roof Deck	13 34 19	XXXXXX	XXXXXX	XXXXXX	0		0.00
05 40 00	Cold Formed Metal Framing	09 21 16	XXXXXX	XXXXXX	XXXXXX	0		0.00
05 50 00	Metal Fabrications		XXXXXX	17,720	XXXXXX	17,720		0.20
05 73 00	Decorative Metal Railings	N/A	XXXXXX	XXXXXX	XXXXXX	0		0.00
06 00 00	WOODS, PLASTICS & COMPOSITES						48,150.00	
06 10 00	Rough Carpentry		15,700	32,450	XXXXXX	48,150		0.56
06 16 56	Air and Water-Resistive Sheathing Board System	09 21 16	XXXXXX	XXXXXX	XXXXXX	0		0.00
07 00 00	THERMAL & MOISTURE PROTECTION						1,338,464.00	
07 11 13	Bituminous Damproofing	07 27 26	XXXXXX	XXXXXX	XXXXXX	0		0.00

Attachment A 2 of 9

07 00 00	THERMAL & MOISTURE PROTECTION	(CONT'D)					
07 13 26	Self-adhering Sheet Waterproofing	07 27 26	XXXXXX	XXXXXX	XXXXXX	0	0.00
07 14 00	Fluid-Applied Waterproofing	07 27 26	XXXXXX	XXXXXX	XXXXXX	0	0.00
07 19 00	Water Repellents	07 27 26	XXXXXX	XXXXXX	XXXXXX	0	0.00
07 21 00	Building Insulation	09 21 16	XXXXXX	XXXXXX	XXXXXX	0	0.00
07 21 19	Foamed in Place Insulation		XXXXXX	20,000	45,524	65,524	0.76
07 21 23	Loose Fill Insulation	N/A	XXXXXX	XXXXXX	XXXXXX	0	0.00
07 22 16	Roof Board Insulation	07 51 13	XXXXXX	XXXXXX	XXXXXX	0	0.00
07 26 00	Vapor Retarders	07 51 13	XXXXXX	XXXXXX	XXXXXX	0	0.00
07 27 26	Fluid Applied Menbrane Air Barriers		XXXXXX	XXXXXX	151,830	151,830	1.75
07 46 00	Preformed Siding	13 34 19	XXXXXX	XXXXXX	XXXXXX	0	0.00
07 51 13	Four Ply Built Up Roof System		XXXXXX	XXXXXX	48,000	48,000	0.55
07 62 00	Sheet Metal and Miscellaneous Accessories	07 51 13	XXXXXX	XXXXXX	XXXXXX	0	0.00
07 62 13	Gutters and Downspouts	13 34 19	XXXXXX	XXXXXX	XXXXXX	0	0.00
07 65 00	Flexible Flashing - Elvaloy	04 20 00	XXXXXX	XXXXXX	XXXXXX	0	0.00
07 71 13	Manufactured Canopies		XXXXXX	XXXXXX	17,050	17,050	0.20
07 72 00	Roof Accessories	07 51 13	XXXXXX	1,500	XXXXXX	1,500	0.02
07 81 16	Cementitious Fireproofing		XXXXXX	XXXXXX	140,635	140,635	1.62
07 81 23	Intumescent Fireproofing		XXXXXX	XXXXXX	888,925	888,925	10.26
07 84 00	Firestopping		XXXXXX	25,000	XXXXXX	25,000	0.29
07 92 00	Joint Sealants	07 27 26	XXXXXX	XXXXXX	XXXXXX	0	0.00
07 92 00	Expansion Control	07 27 26	XXXXXX	XXXXXX	XXXXXX	0	0.00

08 00 00	OPENINGS						1,174,164.00	
08 11 00	Hollow Metal Doors & Frames		XXXXXX	XXXXXX	233,343	233,343		2.69
08 15 00	FRP Flush Doors and Frames	08 11 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
08 31 00	Access Doors		XXXXXX	14,310	XXXXXX	14,310		0.17
08 33 13	Coiling Counter Doors	08 36 13	XXXXXX	XXXXXX	XXXXXX	0		0.00
08 33 23	Overhead Coiling Doors	08 36 13	XXXXXX	XXXXXX	XXXXXX	0		0.00
08 36 13	Sectional Overhead Doors		XXXXXX	XXXXXX	274,711	274,711		3.17
08 41 13	Aluminum-Framed Entrances and Storefronts		XXXXXX	XXXXXX	651,800	651,800		7.52
08 44 13	Glazed Aluminum Curtain Walls		XXXXXX	XXXXXX	XXXXXX	0		0.00
08 45 23	Insulated Translucent Sandwich Panel Wall	08 41 13	XXXXXX	XXXXXX	XXXXXX	0		0.00
08 71 00	Door Hardware	08 11 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
08 91 00	Louvers	23 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
							_	

Attachment A 3 of 9

09 00 00	FINISHES						1,173,267.00	
09 21 13	Plaster Assemblies	09 21 16	XXXXXX	XXXXXX	XXXXXX	0	, ,	0.00
09 21 16	Gypsum Board Assemblies		XXXXXX	XXXXXX	847,000	847,000		9.77
09 30 00	Tiling		XXXXXX	XXXXXX	30,438	30,438		0.35
09 51 00	Acoustical Ceilings	09 21 16	XXXXXX	XXXXXX	XXXXXX	0		0.00
09 67 23	Resinous Flooring		XXXXXX	XXXXXX	14,286	14,286		0.16
09 72 21	Sanitary Wall Panels	09 21 16	XXXXXX	XXXXXX	XXXXXX	0		0.00
09 91 13	Painting		XXXXXX	25,000	256,543	281,543		3.25
10 00 00	SPECIALTIES						46,544.00	
10 14 00	Identifying Devices	ALW	XXXXXX	XXXXXX	XXXXXX	0		0.00
10 21 13.23	Solid Color Reinforced Composite Toilet Compartments	10 28 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
10 28 00	Toilet Accessories		XXXXXX	XXXXXX	43,944	43,944		0.51
10 44 13	Fire Extinguishers and Cabinets	10 28 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
10 73 26	Prefabricated Walkway Covers	N/A	XXXXXX	XXXXXX	XXXXXX	0		0.00
10 82 13	Exterior Grilles and Screens	05 12 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
10 99 00	Miscellaneous Specialties		XXXXXX	2,600	XXXXXX	2,600		0.03
11 00 00	EQUIPMENT						396,306.00	
11 31 00	Appliances		XXXXXX	5,000	71,697	76,697	390,300.00	0.88
11 66 00	Athletic Equipment		XXXXXX	XXXXXX	243,775	243,775		2.81
11 68 00	Playfield Equipment and Structures	31 18 13.10	XXXXXX	XXXXXX	XXXXXX	245,775		0.00
11 92 00	Agricultural Equipment	31 10 13.10	XXXXXX	XXXXXX	75,834	75,834		0.00
11 32 00	Agricultural Equipment		XXXXX	XXXXX	7 3,034	75,054		
12 00 00	FURNISHINGS						6,300.00	
12 35 53.13	Steel Laboratory Casework and Equipment		XXXXXX	6,300	XXXXXX	6,300.00		
13 00 00	SPECIAL CONSTRUCTION						3,802,692.00	
13 00 00 13 34 19			XXXXXX	XXXXXX	3,752,692	3,752,692	3,802,692.00	43.30
13 34 19	Metal Building Systems PEMB Insulation	13 34 19	XXXXXX	XXXXXX	XXXXXX	3,732,092		0.00
		13 34 19	XXXXXX	50,000	XXXXXX	50,000		0.58
	PEMB Erection	13 34 19	^^^^	50,000	^^^^	50,000		0.50
21 00 00	FIRE PROTECTION						223,750.00	
21 00 10	Basic Fire SuppressionSystem Requirements		XXXXXX	25,000	198,750	223,750		2.58
21 00 90	Fire Protections Submittal Procedures	21 00 10	XXXXXX	XXXXXX	XXXXXX	0		0.00
21 13 14	Fire Proitection Systems	21 00 10	XXXXXX	XXXXXX	XXXXXX	0		0.00

Attachment A 4 of 9

22 00 00	PLUMBING						1,067,000.00
22 00 10	Basic Plumbing Requirements		XXXXXX	50,000	1,017,000	1,067,000	12.31
22 00 90	Plumbing Submittal Procedures		XXXXXX	XXXXXX	XXXXXX	0	0.00
22 05 20	Guages, Meters, and Thermometers	22 00 10	XXXXXX	XXXXXX	XXXXXX	0	0.00
22 05 24	Valves - General	22 00 10	XXXXXX	XXXXXX	XXXXXX	0	0.00
22 05 30	Pipe and Pipe Fittings - General	22 00 10	XXXXXX	XXXXXX	XXXXXX	0	0.00
22 05 54	Isolation Devices	22 00 10	XXXXXX	XXXXXX	XXXXXX	0	0.00
22 05 54	Plumbing Identification	22 00 10	XXXXXX	XXXXXX	XXXXXX	0	0.00
22 07 20	Piping Insulation	22 00 10	XXXXXX	XXXXXX	XXXXXX	0	0.00
22 08 00	Commissioning of Plumbing	22 00 10	XXXXXX	XXXXXX	XXXXXX	0	0.00
22 11 17	Domestic Water Piping and Appurtanances Copper	22 00 10	XXXXXX	XXXXXX	XXXXXX	0	0.00
22 13 17	Soil, Waste and Sanitary Piping, Vent Piping and Appurtenances	22 00 10	XXXXXX	XXXXXX	XXXXXX	0	0.00
22 13 18	Condensate Piping	22 00 10	XXXXXX	XXXXXX	XXXXXX	0	0.00
22 13 19	Interceptors	22 00 10	XXXXXX	XXXXXX	XXXXXX	0	0.00
22 16 01	Natural Gas Piping and Appurtenances	22 00 10	XXXXXX	XXXXXX	XXXXXX	0	0.00
22 33 34	Access Doors	22 00 10	XXXXXX	XXXXXX	XXXXXX	0	0.00
22 40 01	Plumbing Fixtures and Fixtures Carriers	22 00 10	XXXXXX	XXXXXX	XXXXXX	0	0.00
22.00.00	MECHANICAL	•					5,345,000
23 00 00	MECHANICAL						3,343,000
23 00 00	Basic Mechanical Requirements		XXXXXX	100,000	5,245,000	5,345,000	5,545,000
		23 00 00	XXXXXX	100,000 XXXXXX	5,245,000 XXXXXX	5,345,000	
23 00 00 23 00 90 23 05 19	Basic Mechanical Requirements	23 00 00	XXXXXX	XXXXXX	XXXXXX		61.67
23 00 00 23 00 90 23 05 19 23 05 29	Basic Mechanical Requirements  HVAC Submittal Procedures  Meters and Gauges for HVAC  Hangers and Supports for HVAC piping and Equipment	23 00 00 23 00 00	XXXXXX XXXXXX XXXXXX	XXXXXX XXXXXX XXXXXX	XXXXXX	0	61.67 0.00 0.00 0.00
23 00 00 23 00 90 23 05 19 23 05 29 25 05 32	Basic Mechanical Requirements HVAC Submittal Procedures Meters and Gauges for HVAC	23 00 00	XXXXXX	XXXXXX	XXXXXX XXXXXX XXXXXX XXXXXX	0	61.67 0.00 0.00
23 00 00 23 00 90 23 05 19 23 05 29 25 05 32 23 05 33	Basic Mechanical Requirements  HVAC Submittal Procedures  Meters and Gauges for HVAC  Hangers and Supports for HVAC piping and Equipment	23 00 00 23 00 00 23 00 00 23 00 00 23 00 00	XXXXXX XXXXXX XXXXXX XXXXXX	XXXXXX XXXXXX XXXXXX XXXXXX	XXXXXX XXXXXX XXXXXX XXXXXX	0 0 0	61.67 0.00 0.00 0.00 0.00 0.00
23 00 00 23 00 90 23 05 19 23 05 29 25 05 32	Basic Mechanical Requirements HVAC Submittal Procedures Meters and Gauges for HVAC Hangers and Supports for HVAC piping and Equipment Roof Curbs	23 00 00 23 00 00 23 00 00	XXXXXX XXXXXX XXXXXX	XXXXXX XXXXXX XXXXXX XXXXXX	XXXXXX XXXXXX XXXXXX XXXXXX	0 0 0 0	61.67 0.00 0.00 0.00 0.00
23 00 00 23 00 90 23 05 19 23 05 29 25 05 32 23 05 33 23 05 53 23 05 93	Basic Mechanical Requirements HVAC Submittal Procedures Meters and Gauges for HVAC Hangers and Supports for HVAC piping and Equipment Roof Curbs Roof Curb Adapters	23 00 00 23 00 00 23 00 00 23 00 00 23 00 00	XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXX	XXXXXX XXXXXXX XXXXXX XXXXXX XXXXXX XXXX	XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXX	0 0 0 0	61.67 0.00 0.00 0.00 0.00 0.00
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23 00 00 23 00 90 23 05 19 23 05 29 25 05 32 23 05 33 23 05 53 23 05 93 23 07 13	Basic Mechanical Requirements HVAC Submittal Procedures Meters and Gauges for HVAC Hangers and Supports for HVAC piping and Equipment Roof Curbs Roof Curb Adapters Identification for HVAC Piping and Equipment Testing, Adjusting and Balanceing for HVAC Duct and Grille Insulation	23 00 00 23 00 00	XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXX	XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXX	XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXX	0 0 0 0 0 0 0	61.67 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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23 00 00 23 00 90 23 05 19 23 05 29 25 05 32 23 05 33 23 05 53 23 07 13 23 07 19 23 07 21	Basic Mechanical Requirements HVAC Submittal Procedures Meters and Gauges for HVAC Hangers and Supports for HVAC piping and Equipment Roof Curbs Roof Curb Adapters Identification for HVAC Piping and Equipment Testing, Adjusting and Balanceing for HVAC Duct and Grille Insulation Hydonic Piping Insulation Refrigerent Piping Insulation	23 00 00 23 00 00	XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXX	XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXX	XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXX	0 0 0 0 0 0 0 0 0	61.67 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
23 00 00 23 00 90 23 05 19 23 05 29 25 05 32 23 05 33 23 05 53 23 07 13 23 07 19 23 07 21 23 08 00	Basic Mechanical Requirements HVAC Submittal Procedures Meters and Gauges for HVAC Hangers and Supports for HVAC piping and Equipment Roof Curbs Roof Curb Adapters Identification for HVAC Piping and Equipment Testing, Adjusting and Balanceing for HVAC Duct and Grille Insulation Hydonic Piping Insulation Refrigerent Piping Insulation Commissioning of HVAC	23 00 00 23 00 00	XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX	XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXX	XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXX	0 0 0 0 0 0 0 0 0 0	61.67 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
23 00 00 23 00 90 23 05 19 23 05 29 25 05 32 23 05 33 23 05 53 23 05 93 23 07 13 23 07 19 23 07 21 23 08 00 23 09 23	Basic Mechanical Requirements HVAC Submittal Procedures Meters and Gauges for HVAC Hangers and Supports for HVAC piping and Equipment Roof Curbs Roof Curb Adapters Identification for HVAC Piping and Equipment Testing, Adjusting and Balanceing for HVAC Duct and Grille Insulation Hydonic Piping Insulation Refrigerent Piping Insulation Commissioning of HVAC Energy Management Control System (BACnet/Tridium)	23 00 00 23 00 00	XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXX	XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXX	XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXX	0 0 0 0 0 0 0 0 0 0 0 0	61.67 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
23 00 00 23 00 90 23 05 19 23 05 29 25 05 32 23 05 53 23 05 53 23 07 13 23 07 19 23 07 21 23 08 00 23 09 23 23 09 23	Basic Mechanical Requirements HVAC Submittal Procedures Meters and Gauges for HVAC Hangers and Supports for HVAC piping and Equipment Roof Curbs Roof Curb Adapters Identification for HVAC Piping and Equipment Testing, Adjusting and Balanceing for HVAC Duct and Grille Insulation Hydonic Piping Insulation Refrigerent Piping Insulation Commissioning of HVAC Energy Management Control System (BACnet/Tridium) -Sequence of Operations General	23 00 00 23 00 00	XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXX	XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXX	XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXX	0 0 0 0 0 0 0 0 0 0 0 0 0	61.67 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
23 00 00 23 00 90 23 05 19 23 05 29 25 05 32 23 05 33 23 05 53 23 07 13 23 07 19 23 07 21 23 08 00 23 09 23 23 09 23A 23 09 23C	Basic Mechanical Requirements HVAC Submittal Procedures Meters and Gauges for HVAC Hangers and Supports for HVAC piping and Equipment Roof Curbs Roof Curb Adapters Identification for HVAC Piping and Equipment Testing, Adjusting and Balanceing for HVAC Duct and Grille Insulation Hydonic Piping Insulation Refrigerent Piping Insulation Commissioning of HVAC Energy Management Control System (BACnet/Tridium) -Sequence of Operations General -Sequence of Operations Boiler Sequences	23 00 00 23 00 00	XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXX	XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXX	XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXX	0 0 0 0 0 0 0 0 0 0 0 0 0 0	61.67 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
23 00 00 23 00 90 23 05 19 23 05 29 25 05 32 23 05 33 23 05 53 23 07 13 23 07 19 23 07 21 23 08 00 23 09 23 23 09 23A 23 09 23G	Basic Mechanical Requirements HVAC Submittal Procedures Meters and Gauges for HVAC Hangers and Supports for HVAC piping and Equipment Roof Curbs Roof Curb Adapters Identification for HVAC Piping and Equipment Testing, Adjusting and Balanceing for HVAC Duct and Grille Insulation Hydonic Piping Insulation Refrigerent Piping Insulation Commissioning of HVAC Energy Management Control System (BACnet/Tridium) -Sequence of Operations General -Sequence of Operation Rooftop Unit Sequences	23 00 00 23 00 00	XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXX	XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXX	XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXX	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	61.67 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
23 00 00 23 05 19 23 05 29 25 05 32 23 05 53 23 05 53 23 07 13 23 07 19 23 07 21 23 08 00 23 09 23 23 09 23 23 09 23 23 09 23 23 09 23 23 09 25	Basic Mechanical Requirements HVAC Submittal Procedures Meters and Gauges for HVAC Hangers and Supports for HVAC piping and Equipment Roof Curbs Roof Curb Adapters Identification for HVAC Piping and Equipment Testing, Adjusting and Balanceing for HVAC Duct and Grille Insulation Hydonic Piping Insulation Refrigerent Piping Insulation Commissioning of HVAC Energy Management Control System (BACnet/Tridium) -Sequence of Operations General -Sequence of Operations Boiler Sequences Sequence of Operation Rooftop Unit Sequences Variable Frequency Drives	23 00 00 23 00 00	XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXX	XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXX	XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXX	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	61.67 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
23 00 00 23 00 90 23 05 19 23 05 29 25 05 32 23 05 33 23 05 53 23 07 13 23 07 19 23 07 21 23 08 00 23 09 23 23 09 23A 23 09 23G 23 09 25 23 21 13	Basic Mechanical Requirements HVAC Submittal Procedures Meters and Gauges for HVAC Hangers and Supports for HVAC piping and Equipment Roof Curbs Roof Curb Adapters Identification for HVAC Piping and Equipment Testing, Adjusting and Balanceing for HVAC Duct and Grille Insulation Hydonic Piping Insulation Refrigerent Piping Insulation Commissioning of HVAC Energy Management Control System (BACnet/Tridium) -Sequence of Operations General -Sequence of Operation Rooftop Unit Sequences Variable Frequency Drives Hydronic Piping, Valves and Appurtenances	23 00 00 23 00 00	XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXX	XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXX	XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXXXX  XXXX	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	61.67 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0

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23 00 00	MECHANICAL (Cont'd)							
23 34 16	HVAC Fans	23 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
23 37 13	Diffusers, Registers and Frilles	23 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
23 43 23	Bipolar Ionizatioon Air Purifications System	23 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
23 52 16	Condensing Boilers	23 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
23 55 33	Gas Fire Unit Heaters	23 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
23 73 26	Dedicated Outside Air, air Handling Units	23 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
23 81 19	Packaged HVAC Units	23 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
23 81 27	Small Capacity Split System Units	23 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
23 82 39	Electric Unit Heaters	23 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
20 02 00	2.000.00 0.11(1.100.00)	20 00 00	700000	70000	70000			0.00
26 00 00	ELECTRICAL						2,340,700.00	
26 00 00	Electrical		XXXXXX	50,000	2,290,700	2,340,700		27.01
2605 05	Selective Demolition for Electrical	26 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
23 05 19	Low Voltage Electrical Power Conductors and Cables	26 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
26 05 26	Grounding and Bonding for Electrical Systems	26 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
26 05 33	Raceways and Boxes for Electrical Sytems	26 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
26 05 53	Identification for Electrical Systems	26 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
26 05 73	Power System Studies	26 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
26 08 00	Commissioning of Electrical Systems	26 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
26 09 13	Electrical Power Monitoring	26 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
26 09 16	Electrical Contol Components	26 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
26 09 23	·	26 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
	Lighting Control Devices					-		
26 20 00	Low Voltage Electrical Distribution	26 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
26 27 26	Wiring Devices	26 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
26 43 00	Surge Protective Devices	26 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
26 50 00	Lighting Control Devices	26 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
26 55 68	Interior Athletic Lighting	26 00 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
27 00 00	COMMUNICATIONS						347,910.00	
27 10 00	Structured Cabling System		XXXXXX	35,000	106,026	141,026		1.63
27 41 16	Integrated Audio-Video Systems & Equipment		XXXXXX	XXXXXX	138,884	138,884		1.60
27 50 00	Distributed Communications and Monitoring system	27 51 23.13	XXXXXX	XXXXXX	XXXXXX	0		0.00
27 51 23.13	School Clock System		XXXXXX	XXXXXX	68,000	68,000		0.78
28 00 00	ELECTRONIC SAFETY & SECURITY						310,334.00	
28 05 00	Common Work Results for Electronic Security	28 10 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
28 05 13	Conductors and Cables for Electronic Security	29 10 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
28 05 44	Emergency Responder Radio Coverage System	By Owner	XXXXXX	XXXXXX	XXXXXX	0		0.00

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28 00 00	ELECTRONIC SAFETY & SECURITY	(CONT'D)					
28 10 00	Access Control		XXXXXX	50,000	75,646	125,646	1.45
28 20 00	Video Surveillance		XXXXXX	XXXXXX	53,949	53,949	0.62
28 31 00	Intrusion Detection		XXXXXX	XXXXXX	33,499	33,499	0.39
28 46 21	Fire Detection and Alarm System		XXXXXX	50,000	47,240	97,240	1.12

31 00 00	EARTHWORK						922,704.00
31 00 00	Earthwork		XXXXXX	45,000	837,979	882,979	10.
31 10 00	Site Clearing	31 00 00	XXXXXX	XXXXXX	XXXXXX	0	0.0
31 23 33	Trenching & Backfilling	33 10 00	XXXXXX	XXXXXX	XXXXXX	0	0.0
31 31 00	Soil Treatment		XXXXXX	XXXXXX	13,000	13,000	0.1
31 32 00	Soil Stabilization	31 00 00	XXXXXX	XXXXXX	XXXXXX	0	0.0
31 63 29	Drilled Concrete Piers & Shafts	03 10 00	XXXXXX	XXXXXX	XXXXXX	0	0.0
	- Pier Reconcilliation Work Sheets	03 10 00	XXXXXX	XXXXXX	XXXXXX	0	0.0
31 70 00	SWPPP		XXXXXX	1,725	XXXXXX	1,725	0.0
31 80 00	Erosion Control		XXXXXX	25,000	XXXXXX	25,000	0.2
	EXTERIOR IMPROVEMENTS						1,767,850
32 05 19	Geotextiles for Exterior Improvements	31 00 00	XXXXXX	XXXXXX	XXXXXX	0	0.0
32 11 16	Drainage Stone Base	31 00 00	XXXXXX	XXXXXX	XXXXXX	0	0.0
	Asphalt Paving		XXXXXX	XXXXXX	315,000	315,000	3.6
32 13 13	Concrete Paving	03 10 00	XXXXXX	XXXXXX	XXXXXX	0	0.0
32 17 23	Pavement Markings		XXXXXX	25,000	XXXXXX	25,000	0.2
32 18 13	Synthetic Grass Surfacing		XXXXXX	XXXXXX	XXXXXX	0	0.0
31 18 13.10	Synthetic Grass Surfacing - Hellas Alternate		XXXXXX	XXXXXX	968,350	968,350	11.
32 18 13.20	Synthetic Grass Surfacing - Shaw Alternate		XXXXXX	XXXXXX	XXXXXX	0	0.0
32 18 13.30	Synthetic Grass Surfacing - Astroturf Alternate		XXXXXX	XXXXXX	XXXXXX	0	0.0
32 18 14	Paved Elastic Layer	31 18 13.10	XXXXXX	XXXXXX	XXXXXX	0	0.0
32 18 28	Infield Surfacing	N/A	XXXXXX	XXXXXX	XXXXXX	0	0.0
32 19 00	Walk, Road & Appurtenances	03 10 00	XXXXXX	XXXXXX	XXXXXX	0	0.0
32 31 19	Chain Link Fences and Gates	N/A	XXXXXX	XXXXXX	20,000	20,000	0.2
32 31 15	Vinyl-Clad Chain Link Fences & Gates		XXXXXX	27,000	136,000	163,000	1.8
32 31 19	Decorative Metal Fences & Gates	N/A	XXXXXX	XXXXXX	XXXXXX	0	0.0
32 84 00	Planting Irrigation		XXXXXX	XXXXXX	276,500	276,500	3.
32 92 23	Sod	32 84 00	XXXXXX	XXXXXX	XXXXXX	0	0.0
32 40 00	Trees Shrubs and Groundcover	32 84 00	XXXXXX	XXXXXX	XXXXXX	0	0.0

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	UTILITIES						1,314,038.00	
33 10 00	Water Utilities		XXXXXX	30,000	1,284,038	1,314,038		15.16
33 30 00	Sanitary Sewerage Utilities	33 10 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
33 40 00	Storm Drainage Utilities	33 10 00	XXXXXX	XXXXXX	XXXXXX	0		0.00
	GENERAL REQUIREMENTS						812,213.00	
	Building Permit	By Owner	XXXXXX	XXXXXX	XXXXXX	0		
	Ice/Water		XXXXXX	750	XXXXXX	750		0.01
	Jobsite Signage		XXXXXX	5,000	XXXXXX	5,000		0.06
	Temp Fencing		XXXXXX	4,500	XXXXXX	4,500		0.05
	Temp Roads		XXXXXX	10,000	XXXXXX	10,000		0.12
	Temp Electric Service		XXXXXX	10,000	XXXXXX	10,000		0.12
	Temp Water Service		XXXXXX	5,000	XXXXXX	5,000		0.06
	Temp Toilets		XXXXXX	7,800	XXXXXX	7,800		0.09
	Field Office Rental		XXXXXX	22,200	XXXXXX	22,200		0.26
	Storage Trailer		XXXXXX	3,000	XXXXXX	3,000		0.03
	Field Office supplies		XXXXXX	1,800	XXXXXX	1,800		0.02
	Project Superintendent		172,744	XXXXXX	XXXXXX	172,744		1.99
	Project Manager		172,744	XXXXXX	XXXXXX	172,744		1.99
	Project Engineer		94,224	XXXXXX	XXXXXX	94,224		1.09
	Operations Director		29,450	XXXXXX	XXXXXX	29,450		0.34
	Construction Cleaning		XXXXXX	15,000	XXXXXX	15,000		0.17
	Final Cleaning		XXXXXX	13,001	XXXXXX	13,001		0.15
	Dumpsters		XXXXXX	50,000	XXXXXX	50,000		0.58
	Day Labor		XXXXXX	25,000	XXXXXX	25,000		0.29
	Licensed Surveyor		XXXXXX	25,000	XXXXXX	25,000		0.29
	Subsurface Utility Engineering		XXXXXX	65,000	XXXXXX	65,000		0.75
	Pre-Build Control		XXXXXX	25,000	XXXXXX	25,000		0.29
	Testing		XXXXXX	25,000	XXXXXX	25,000		0.29
	Special Inspections		XXXXXX	10,000	XXXXXX	10,000		0.12
	Equipment Rental		XXXXXX	15,000	XXXXXX	15,000		0.17
	Small Tools		XXXXXX	5,000	XXXXXX	5,000		0.06
	CONTINUENCY ALLOWANCES						4 600 000	
	CONTINGENCY ALLOWANCES  Construction Contingency Allowance		XXXXXX	540,000	XXXXXX	540,000	1,600,000	6.23
	Pier Overages		XXXXXX	100,000	XXXXXX	100,000		1.15
	Pier Casing		XXXXXX	140,000	XXXXXX	140,000		1.62
	HVAC TAB	By Owner	XXXXXX	XXXXXX	XXXXXX	140,000		0.00
	MEP Systems Commissioning	By Owner	XXXXXX	XXXXXX	XXXXXX	0		0.00
	INIER SYSTEMS COMMISSIONING	by Owner	^^^^	^^^^	^^^^	U		0.00

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	CONTINGENCY ALLOWANCES	(CONT'D)						
	Energy Code Inspection		XXXXXX	20,000	XXXXXX	20,000		0.23
	Building Plaques		XXXXXX	6,000	XXXXXX	6,000		0.07
	Signage (Room Signage & Building Letters)		XXXXXX	64,000	XXXXXX	64,000		0.74
	Site Directional signage		XXXXXX	40,000	XXXXXX	40,000		0.46
	City & Engineering Comments		XXXXXX	50,000	XXXXXX	50,000		0.58
	Owner Contingency Allowance		XXXXXX	540,000	XXXXXX	540,000		6.23
	Transformer Relocates		XXXXXX	50,000	XXXXXX	50,000		0.58
	Communications Vault Relocate		XXXXXX	50,000	XXXXXX	50,000		
	SUBTOTAL		484,862	2,881,656	23,853,368	27,219,886	27,219,886.00	314.04
	GL Insurance	0.81%	XXXXXX	XXXXXX	234,900	234,900		
	Bldrs Risk	0.25%	XXXXXX	XXXXXX	72,500	72,500		
	Sub-Bond	1.0%	XXXXXX	XXXXXX	290,000	290,000		
						27,817,286		
	CMAR Fee	3.90%				1,084,874		
	Payment & Performance Bond	0.000,0				237,600		
						29,139,760	Į.	336.19
	Preconstruction Fee ( Separate Invoice)		XXXXXX	XXXXXX	20,000	20,000		
	Sub Total					29,159,760		
				Not Accepted	Pending	Recommended		
Alt #1	Field Turf - Hellas	\$0.00						
Alt #2	Field Turf - Shaw	\$0.00						
Alt #3	Field Turf - Astro Turf	\$0.00						
Alt #4	New Campus Wide Fire Alarm System	\$1,381,509.05						
Alt #5	Renovations to Existing Campus Wide FA System	\$757,461.74						
Alt #6	Add Translucent Panel to South End of MPB	\$233,595.18						
Alt #7	Existing Ag Barn Insulation Renovations	\$107,889.94						
Alt #8	Replace Over Hd Coiling Doors Existing Ag Barn	\$45,473.38						
Alt #9	Add Oscellating Fans to Existing Ag Barn	\$60,109.25						
Alt #10	Replace Lighting in Existing Ag Barn	\$63,891.64						
Alt #11	Repair foundation Issues at Existing Ag Barn	TBD						
Alt #12	Alternate Re-roof Area	TBD						
						29,159,760		29,159,760.15

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	Cost Savings Options					
			Not Accepted	Pending	Recommended	Ball in Court
1	Reduce Asphalt Paving to 4"/2" in lieu of 6"/2"	\$ (58,000.00)	\$ (58,000.00)			
	Replace Ashpalt Paving w/7" Concrete	TBD			40,000.00	
2	Gravel paving to be 8" Crushed stone in lieu of #57 stone	\$ (7,500.00)			(7,500.00)	
3	Ag Bldg - Reduce drift to H/300	\$ (8,726.00)	\$ (8,726.00)			
4	Ag Barn - change galvanized steel to primered unpainted	\$ (15,838.00)	\$ (15,838.00)			
5	Delete Intumescent paint above 20' AFF @ MPB	\$ (697,000.00)		\$ (697,000.00	)	
6	Refurbish existing AHU's shown to be replaced in the plans and specifications	\$ (2,636,000.00)			(2,636,000.00)	
7	Delete Plumbing Void System	\$ (65,506.00)			(65,506.00)	
	MPB - 5/8" regular sheet rock over 3/4" plywood in lieu of high impact board	\$ (49,455.00)		\$ (49,455.00	)	
8	Leave existing metal panels on backsides of metal roof facades at HS	\$ (32,000.00)			(32,000.00)	
9	High School Re-Roof - inlieu of full tear off, peal roof to existing sound insul, add 1 1/2" ISO	\$ (175,000.00)			(175,000.00)	
10	Add Fire Alarm for Baseball Concession Bldg	\$ 21,894.00			21,894.00	
11	Add Fire Alarm for new Ag Barn if desired	\$ 24,327.00			24,327.00	
12	Add Emergency Responder Radio Coverage	\$ 70,156.00	\$ 70,156.00			
13	Replace Copper with fiber from HS to Athletic Builling for FA					
14	500 GPM vertical in line fire pump if needed	\$ 48,000.00	\$ 48,000.00			
15	Netting - Roof Only ( option #1)	\$ 230,235.00	\$ 230,235.00			
16	Netting - Roof and Walls (option #2)	\$ 254,470.00	\$ 254,470.00			
	Total Cost Saving Options Accepted				(\$2,829,785.00)	
	Blders Risk	0.25%			(\$7,074.46)	
	General Libility	0.81%			(\$22,921.26)	
	Sub Bond	1.00%			(\$28,297.85)	
	CMAR Fee	3.90%			(\$110,361.62)	
	Bond	0.72%			(\$20,374.45)	
	Total Cost Savings Plus Markup				(\$3,018,814.64)	(3,018,814.64)
	Total GMP #2					26,140,945.52
	Total GMP #1					7,853,930.00
	Total GMP #2					26,140,945.52
	Total GMP					33,994,875.52

02/27/2024

23-045.00

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21 00 90 - Fire Protection System Submittal Procedures

21 13 14 - Fire Protection System

#### **DIVISION 22 - PLUMBING**

Section 22 00 10 - Basic Plumbing Requirements

22 00 90 - Plumbing Submittal Procedures

22 05 20 - Gauges, Meters, and Thermometers

22 05 24 - Valves - General

22 05 30 - Pipe and Pipe Fittings - General

22 05 34 - Isolation Devices

22 05 54 - Plumbing Identification

22 07 20 - Piping Insulation

22 08 00 - Commissioning of Plumbing

22 11 17 - Domestic Water Piping and Appurtenances Copper

22 13 17 - Soil, Waste and Sanitary Drain Piping, Vent Piping, and Appurtenances

22 13 18 - Condensate Piping

22 13 19 - Interceptors

22 16 01 - Natural Gas Piping and Appurtenances

22 33 34 - Access Doors

22 40 01 - Plumbing Fixtures and Fixture Carriers



#### ATTACHMENT B

# **DIVISION 23 - HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)**

Section 23 00 00 - Basic Mechanical Requirements 23 00 90 - HVAC Submittal Procedures 23 05 19 - Meters and Gauges for HVAC 23 05 29 - Hangers and Supports for HVAC Piping and Equipment 23 05 32 - Roof Curbs 23 05 33 - Roof Curb Adapters 23 05 53 - Identification for HVAC Piping and Equipment 23 05 93 - Testing, Adjusting, and Balancing for HVAC 23 07 13 - Duct and Grille Insulation 23 07 19 - Hydronic Piping Insulation 23 07 21 - Refrigerant Piping Insulation 23 08 00 - Commissioning of Heating, Ventilating and Air Conditioning (HVAC) 23 09 23 - Energy Management Control System (BACnet/Tridium) 23 09 23A - Sequence of Operations General 23 09 23C - Sequence of Operations Boiler Sequences 23 09 23G - Sequence of Operations Rooftop Unit Sequences 23 09 25 - Variable Frequency Drives 23 21 13 - Hydronic Piping, Valves, and Appurtenances 23 23 00 - Refrigerant Piping 23 31 13 - Metal Ductwork 23 33 33 - Access Doors 23 34 16 - HVAC Fans 23 37 13 - Diffusers, Registers, and Grilles 23 43 23 - Bipolar Ionization Air Purification System 23 52 16 - Condensing Boilers 23 55 33 - Gas Fired Unit Heaters 23 73 26 - Dedicated Outdoor Air, Air Handling Units



23 81 19 - Packaged HVAC Units

23 82 39 - Electric Unit Heaters

23 81 27 - Small Capacity Split System Units

# **DIVISION 26 - ELECTRICAL**

Section 26 00 00 - Electrical 26 05 05 - Selective Demolition for Electrical 26 05 19 - Low Voltage Electrical Power Conductors and Cables 26 05 26 - Grounding and Bonding for Electrical Systems 26 05 33 - Raceways and Boxes for Electrical Systems 26 05 53 - Identification for Electrical Systems 26 05 73 - Power System Studies 26 08 00 - Commissioning of Electrical Systems 26 09 13 - Electrical Power Monitoring 26 09 16 - Electrical Control Components 26 09 23 - Lighting Control Devices 26 20 00 - Low Voltage Electrical Distribution 26 27 26 - Wiring Devices 26 43 00 - Surge Protective Devices 26 50 00 - Lighting 26 55 68 - Interior Athletic Lighting

# **DIVISION 27 - COMMUNICATIONS**

Section 27 10 00 - Structured Cabling System
27 41 16 - Integrated Audio/Video Systems and Equipment
27 50 00 - Distributed Communications and Monitoring Systems
27 51 23.13 - School Clock System



#### **DIVISION 28 - ELECTRONIC SAFETY AND SECURITY**

Section 28 05 00 - Common Work Results for Electronic Security

28 05 13 - Conductors and Cables for Electronic Security

28 05 44 - Emergency Responder Radio Coverage System

28 10 00 - Access Control

28 20 00 - Video Surveillance

28 31 00 - Intrusion Detection

28 46 21 - Fire Detection and Alarm System

#### DIVISIONS 29 and 30 - Not used.

#### **DIVISION 31 - EARTHWORK**

Section 31 00 00 - Earthwork

31 10 00 - Site Clearing

31 23 33 - Trenching and Backfilling

31 31 00 - Soil Treatment 31 32 00 - Soil Stabilization 31 63 29 - Drilled Concrete Piers

- Pier Reconciliation Worksheets

#### **DIVISION 32 - EXTERIOR IMPROVEMENTS**

Section 32 05 19 - Geotextiles for Exterior Improvements

32 11 16 - Drainage Stone Base

32 12 16 - Asphalt Paving

32 13 13 - Concrete Paving

32 17 23 - Pavement Markings

32 18 13 - Synthetic Grass Surfacing

32 18 13.10 - Synthetic Grass Surfacing - Hellas Alternate

32 18 13.20 - Synthetic Grass Surfacing - Shaw Alternate

32 18 13.30 - Synthetic Grass Surfacing - Astroturf Alternate

32 18 14 - Paved Elastic Layer

32 18 28 - Infield Surfacing

32 19 00 - Walk, Road and Parking Appurtenances

32 31 13 - Chain Link Fences and Gates

32 31 15 - Vinyl-clad Chain Link Fences & Gates

32 31 19 - Decorative Metal Fences & Gates

32 84 00 - Planting Irrigation

32 92 23 - Sod

32 93 00 - Trees, Shrubs and Groundcovers

#### **DIVISION 33 - UTILITIES**

Section 33 10 00 - Water Utilities

33 30 00 - Sanitary Sewerage Utilities 33 40 00 - Storm Drainage Utilities

DIVISIONS 34 through 40 - Not used.

#### **DIVISION 41 - MATERIAL PROCESSING AND HANDLING EQUIPMENT**

NONE IN THIS PROJECT

DIVISIONS 42 through 49 - Not used.

Add #1 dated 4-16-2024 did not include an index



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COVER-1	COVER -VOLUME ONE	ISSUE DAT	E ADD #1
INDEX-1	INDEX TO DRAWINGS GENERAL NOTES ABBREVIATIONS - VOLUME ONE	2/27/2024	4/16/2024
INDEX	INDEX TO DIAWINGO GENERAL NOTES ADDICEVIATIONS VOLUME ONE	2/21/2024	4/10/2024
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CODE.1	CODE REVIEW, BUILDING DESIGN CRITERIA & DIAGRAMS	2/27/2024	4/16/2024
CODE.2	CODE REVIEW - MPB & BASEBALL CONCESSIONS	2/27/2024	., . 6, 2 6 2 .
CODE.3	CODE REVIEW - AG BARN	2/27/2024	
0022.0	OBETALVEN NO BANK	2,21,2021	
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C1.02	PLAT	2/27/2024	
C1.03	OVERALL DEMOLITION PLAN	2/27/2024	4/16/2024
C1.04	DEMOLITION PLAN - SECTION A	2/27/2024	4/16/2024
C1.05	DEMOLITION PLAN - SECTION B	2/27/2024	
C1.06	OVERALL SITE PLAN	2/27/2024	4/16/2024
C1.07	SITE PLAN - SECTION A	2/27/2024	4/16/2024
C1.08	SITE PLAN - SECTION B	2/27/2024	
C1.09	OVERALL DIMENSION CONTROL PLAN	2/27/2024	4/16/2024
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C1.16	DRAINAGE AREA MAP	2/27/2024	
C1.17	OVERALL STORM DRAIN PLAN	2/27/2024	
C1.18	STORM DRAIN PLAN - SECTION A	2/27/2024	4/16/2024
C1.19	STORM DRAIN PLAN - SECTION B	2/27/2024	4/16/2024
C1.20	OVERALL WATER & SANITARY SEWER PLAN	2/27/2024	
C1.21	WATER & SANITARY SEWER PLAN - SECTION A	2/27/2024	
C1.22	WATER & SANITARY SEWER PLAN - SECTION B	2/27/2024	
C1.23	SANITARY SEWER PROFILE	2/27/2024	
C1.24	OVERALL PAVING PLAN	2/27/2024	4/16/2024
C1.25	PAVING PLAN - SECTION A	2/27/2024	4/16/2024
C1.26	PAVING PLAN - SECTION B	2/27/2024	
C1.27	OVERALL EROSION CONTROL	2/27/2024	
C1.28	EROSION CONTROL PLAN - SECTION A	2/27/2024	
C1.29	EROSION CONTROL PLAN - SECTION B	2/27/2024	
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C1.31	SITE DETAILS (2 OF 3)	2/27/2024	4/16/2024
C1.32	SITE DETAILS (3 OF 3)	2/27/2024	
C1.33	PAVING DETAILS	2/27/2024	4/16/2024
C1.34	STORM DRAIN DETAILS (1 OF 2)	2/27/2024	
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C1.36	SANITARY SEWER DETAILS	2/27/2024	
C1.37	WATER DETAILS	2/27/2024	
C2.01	RETAINING WALL A PLAN & PROFILE	2/27/2024	
C2.03	RETAINING WALL C PLAN & PROFILE	2/27/2024	
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L1.01	OVERALL LANDSCAPE PLAN	2/27/2024	4/16/2024
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L1.04	LANDSCAPE SCHEDULE, DETAILS, & NOTES	2/27/2024	4/16/2024
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T1.01	TREE PRESERVATION PLAN - EXISTING	2/27/2024	
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T1.02	TREE PRESERVATION PLAN - PROPOSED	2/27/2024	
T1.03	TREE TABLE AND DETAIL	2/27/2024	
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IR1.04	TREE IRRIGATION PLAN	2/27/2024	
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ADCUITECT	IDAL		
ARCHITECTU		0/07/0004	
A0.31	TEXAS ACCESSIBILTY STANDARDS REQUIREMENTS SITE PLAN	2/27/2024 2/27/2024	
A1.11 A1.12	ENLARGED SITE PLANS & DETAILS		
A1.12 A2.03	DEMOLITION FLOOR PLAN - EXISTING AG BARN	2/27/2024 2/27/2024	
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A2.11A A2.11B	FLOOR PLAN - MULTI-PURPOSE BUILDING - NORTH	2/27/2024	4/16/2024
A2.11B A2.12	FLOOR PLAN - MOLTI-FORFOSE BUILDING - 300TH FLOOR PLAN - BASEBALL CONCESSIONS	2/27/2024	4/10/2024
A2.12 A2.13A	FLOOR PLAN - BASEBALE CONCLISSIONS FLOOR PLAN & INTERIOR ELEVATIONS - AG BARN	2/27/2024	
A2.13A A2.13B	EXISTING AG BARN	2/27/2024	
A2.13B A2.14A	ARTIFICIAL TURF STRIPING PLAN - NORTH	2/27/2024	4/16/2024
A2.14B	ARTIFICIAL TURF STRIPING PLAN - SOUTH	2/27/2024	4/16/2024
A2.14B A2.15	FIELD DETAILS	2/27/2024	4/16/2024
A2.16	ARTIFICIAL TURF PRACTICE FIELD	2/27/2024	4/16/2024
A2.10 A2.21	PARTITION TYPES & DETAILS	2/27/2024	4/10/2024
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A2.31	TYPICAL TOILET ROOM DETAILS, TOILET ACCESSORY LEGEND	2/27/2024	4, 10, 2024
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A3.04	EXTERIOR ELEVATIONS - BASEBALL CONCESSIONS	2/27/2024	
A3.05	EXTERIOR ELEVATIONS - AG BARN	2/27/2024	
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A4.02	BUILDING SECTIONS	2/27/2024	
A4.03	BUILDING SECTIONS	2/27/2024	
A4.10	BUILDING ASSEMBLY TYPES & DETAILS	2/27/2024	
A4.11	WALL SECTIONS	2/27/2024	
A4.12	WALL SECTIONS	2/27/2024	4/16/2024
A4.13	WALL SECTIONS	2/27/2024	
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A6.12	REFLECTED CEILING PLAN - BASEBALL CONCESSIONS	2/27/2024	
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GS1.01	GENERAL INFORMATION	2/27/2024	
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S1.01	STRUCTURAL NOTES	2/27/2024
S1.02	SPECIAL INSPECTIONS	2/27/2024
S2.00	OVERALL STRUCTURAL PLAN, COMPONENT & CLADDING WIND PRESSURE	2/27/2024
S2.01	MULTIPURPOSE FACILITY - OVERALL FOUNDATION PLAN & FRAMING ELEV	2/27/2024
S2.11A	FOUNDATION FRAMING PLAN - UNIT A	2/27/2024
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S2.11C	FOUNDATION AND ROOF FRAMING PLAN - AG BARN	2/27/2024
S2.11D	FOUNDATION AND ROOF FRAMING PLAN - BASEBALL CONCESSION	2/27/2024
S2.11E	FOUNDATION AND ROOF FRAMING PLAN - EXISTING AG BARN	2/27/2024
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S2.13A	HIGH ROOF FRAMING PLAN - UNIT A	2/27/2024
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S4.01	TYPICAL CONCRETE MASONRY DETAILS	2/27/2024
S5.01	TYPICAL STEEL DETAILS	2/27/2024
S5.10	STEEL DETAILS	2/27/2024
S5.20	STEEL FRAMING ELEVATIONS	2/27/2024
S5.21	STEEL FRAMING ELEVATIONS	2/27/2024
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M2.04	MECHANICAL OVERALL AIR HANDLER LIST	2/27/2024	4/16/2024
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M2.12	MECHANICAL FLOOR PLAN -BASEBALL CONCESSIONS	2/27/2024	
M2.13A	MECHANICAL FLOOR PLAN -AG BARN	2/27/2024	
M3.11	MECHANICAL PIPING PLAN - BOILER ROOM & SCHEMATIC	2/27/2024	
M7.01	MECHANICAL DETAILS, GENERAL NOTES & SYMBOLS	2/27/2024	
M7.02	MECHANICAL DETAILS	2/27/2024	
M7.03	MECHANICAL DETAILS	2/27/2024	
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M8.02	MECHANICAL SCHEDULES & COMCHECK	2/27/2024	
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FP10.11	FIRE PROTECTION FLOOR PLAN	2/27/2024	
PL2.11A	PLUMBING FLOOR PLAN -MULTI-PURPOSE BUILDING -NORTH	2/27/2024	
PL2.11B	PLUMBING FLOOR PLAN -MULTI-PURPOSE BUILDING -SOUTH	2/27/2024	
PL2.12	PLUMBING FLOOR PLAN -BASEBALL CONCESSIONS	2/27/2024	
PL2.13A	PLUMBING FLOOR PLAN -AG BARN	2/27/2024	
PL2.13B	PLUMBING FLOOR PLAN - EXISTING AG. BARN	2/27/2024	
PL7.01	PLUMBING DETAILS, SYMBOLS & GENERAL NOTES	2/27/2024	
PL8.01	PLUMBING SCHEDULES, DETAILS, AND GENERAL NOTES	2/27/2024	
PL8.02	PLUMBING DETAILS AND RISERS	2/27/2024	
FIRE	FIDE ALADM FLOOD DIAM LEVEL ONE MULTIPUDDOCE DUU DINO MODTU	0/07/0004	
FA2.11A	FIRE ALARM FLOOR PLAN - LEVEL ONE -MULTIPURPOSE BUILDING -NORTH	2/27/2024	
FA2.11B	FIRE ALARM FLOOR PLAN - LEVEL ONE -MULTIPURPOSE BUILDING -SOUTH	2/27/2024	
FA17.11	FIRE ALARM DETAILS AND SYMBOLS	2/27/2024	
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E1.11	ELECTRICAL SITE PLAN OVERALL	2/27/2024	
E1.12	ELECTRICAL ENLARGED SITE PLAN	2/27/2024	
E1.13	PHOTOMETRIC ENLARGED SITE PLAN	2/27/2024	
E2.01	ELECTRICAL FLOOR PLAN - MAIN BUILDING - LEVEL ONE OVERALL	2/27/2024	4/16/2024
E2.02	ELECTRICAL FLOOR PLAN - MAIN BUILDING - LEVEL TWO OVERALL	2/27/2024	4/16/2024
E2.11A	ELECTRICAL FLOOR PLAN -LEVEL ONE -MULTIPURPOSE BUILDING -NORTH	2/27/2024	4/16/2024
E2.11B	ELECTRICAL FLOOR PLAN -LEVEL ONE -MULTIPURPOSE BUILDING -SOUTH	2/27/2024	4/16/2024
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E2.13A	ELECTRICAL FLOOR PLAN -LEVEL ONE -AG BARN	2/27/2024	4/16/2024
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E7.01	ELECTRICAL DETAILS, SYMBOLS, & GENERAL NOTES	2/27/2024	1, 10, 202 1
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EL2.13A	LIGHTING FLOOR PLAN -AG BARN	2/27/2024	
EL2.13B-A	LIGHTING FLOOR PLAN - EXISTING AG BARN - ALTERNATE BID	2/27/2024	
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EL7.02	LIGHTING CONTROL CHART	2/27/2024	
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ES2.13	FLOOR PLAN -AG BARN	2/27/2024	
ES2.20	ENLARGED PLANS	2/27/2024	
ES3.21	ELEVATIONS	2/27/2024	
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ES6.11B	REFLECTED CEILING PLAN -MULTI PURPOSE BUILDING -SOUTH	2/27/2024	
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ES19.74	SECURITY CAMERA DETAILS	2/27/2024	
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AUDIO			
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AV2.11B	FLOOR PLAN -MULTI-PURPOSE BUILDING -SOUTH	2/27/2024	
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AV11.00	AUDIO-VIDEO FUNCTIONAL LEGEND AND STANDARD DETAILS	2/27/2024	
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INTERCOM	SYSTEMS		
IC0.00	GENERAL NOTES AND LEGENDS	2/27/2024	
IC2.11A	FLOOR PLAN - MULTIPURPOSE BUILDING - NORTH	2/27/2024	
IC2.11B	FLOOR PLAN - MULTIPURPOSE BUILDING - SOUTH	2/27/2024	
IC2.13	FLOOR PLAN -AG BARN	2/27/2024	
IC3.11	ELEVATIONS	2/27/2024	
IC6.11B	REFLECTED CEILING PLAN - MULTIPURPOSE BUILDING - SOUTH	2/27/2024	
IC6.12	REFLECTED CEILING PLAN -BASEBALL CONCESSIONS	2/27/2024	
IC11.00	INTERCOM FUNCTIONAL LEGEND AND STANDARD DETAILS	2/27/2024	

Attachment C 3 of 3

# **Guyer HS Multi-Purpose Building and Renovations Denton ISD**

# Clarifications & Assumptions

# **DIVISION 01 - GENERAL REQUIREMENTS**

- Permit Fees, connection fees, impact fees, franchise utility fees, water meters paid for by DISD
- Temporary Utilities usage bills paid by owner
- Testing provided and paid for by DISD
- Bid Documents are assumed to comply with all existing applicable codes, regulations, and city
  Ordinances or other AHJ's, thus an additional cost incurred to remedy conflicts or discrepancies
  shall be via change order form the Owner/Architect
- Cost of Commissioning Agent/Services paid for by DISD.
- Prevailing Wage Rate Determination included as provided by DISD
- BWC excludes waste management plan, waste Reduction Reporting, sorting of refuse/waste and disposal as recyclable materials or salvage of materials other than specific RTU's noted in Demolition Plan
- Contractor retainage will be held at the rate of 5% of the cost of work.
- Subcontractor retainage is held at 5% of the cost of work.
- All unused funds and savings shall be returned to the owner as savings at the end of the project.
- Sales taxes on materials excluded from this project.
- Excludes BIM Services
- Addendum #1 acknowledged

# **DIVISION 02 – EXISTING CONDITIONS**

# **DIVISION 03 – CONCRETE**

- Pier Depths are bid at 38' from finish grade to bearing stratum
- Added Pier depth cost:
  - 18" \$50.00 LF Add/\$15.00 LF Deduct
  - o 30" \$100.00 LF Add/\$30.00 LF Deduct
- Added Casing depth cost:
  - o 18" \$55.00 LF
  - o 30" \$90.00 LF

#### **DIVISION 04 – MASONRY**

Specified face brick subject to availability

# **DIVISION 05 - STEEL**

No comments

# **Guyer HS Multi-Purpose Building and Renovations Denton ISD**

# **DIVISION 06 – WOODS, PLASTICS AND COMPOSITES**

No comments

#### **DIVISION 07 – THERMAL AND MOISTURE PROTECTION**

- Re-Roofing of the existing High School building will completed in two phases. Phase I completed summer of 2024, Phase II – completed summer of 2025
- If VE Alternate to leave existing roof insulation in place is taken, then the Unit Price to remove and replace existing Roof Insulation that may be wet or deteriorated is \$2.35 per square foot.
- Spray applied fireproofing at to be applied to structure concealed behind plywood and drywall
- Intumescent paint to be applied to exposed columns and roof beams. This does not include the purlins or underside of roof sheets

#### **DIVISION 08 – OPENINGS**

No comments

# **DIVISION 09 – FINISHES**

• MPB Exposed structure is coated with intumescent paint only. There is no paint applied over the intumescent. Intumescent paint color will be the mfg.. available color.

#### **DIVISION 10 – SPECIALTIES**

# **DIVISION 11 – EQUIPMENT**

- Athletic equipment provided includes kicking nets at each end of the building and one folding divider curtain with electric winch
- Building protection netting is excluded

# **DIVISION 13 – SPECIAL CONSTRUCTION**

- PEMB building as manufactured by Red Dot Buildings
- PMPB columns to hold 2'-0" up to 20' AFF, then tapered above
- Roof panels too be 18" wide to achieve FM 1-90 rating
- MPB Drift H/300; Vertical Frame Deflection L/180; Girt & Purlin Deflection L/180
- MPB Roof Panels have mid panel splices
- Sheeting & Trims to be by MBCI from MBCI standard colors
- 20 year weathertightness warranty included

# **DIVISION 21 – FIRE SUPPRESSION**

Assumed adequate pressure at city main without need for fire pump

#### Attachment D

# **Guyer HS Multi-Purpose Building and Renovations Denton ISD**

# **DIVISION 22 – PLUMBING**

No comments

#### **DIVISION 23 – HVAC**

No comments

# **DIVISION 26 – ELECTRICAL**

 Allowance of \$100,000.00 included for work related to moving existing electrical transformers and utility vaults indicated on the drawings. Charges levied by the Service Provider are assumed to be Owner Cost

# **DIVISION 27 – COMMUNICATIONS**

• Communications to be connected to existing system at existing filed house next to the MPB. No additional pathways back to HS MDF are included.

# **DIVISION 28 – ELECTRONIC SAFETY AND SECURITY**

 Alt #4 has limited scope clarification or drawings. Subcontractors have made assumptions in the absence of detailed drawings

# **DIVISION 31 – EARTHWORK**

• Subgrade preparation for the building foundations, concrete slabs and surrounding flatwork are based on Geotex Engineering reports dated 10-27-2023 identified at #G23-2207D and 3-7-2024 identified as #G24-2024

# **DIVISION 32 – EXTERIOR IMPROVMENTS**

No comments

# **DIVISION 33 – UTILITIES**

No comments

# **SCHEDULE OF ALLOWANCES**

•	Pier Overages	\$100,000.00
•	Pier Casing	\$140,000.00
•	HVAC Testing and Balancing	By Owner
•	Energy code Inspection	By Owner
•	Building Plaque	\$6,000.00
•	Project Directional Signage	\$40,000.00
•	Signage (room and building letters)	\$64,000.00
•	City and Engineering Comments	\$50,000.00
•	Owners Contingency	\$540,000.00
•	Construction Contingency	\$540,000.00
•	Transformer and Utility Vault Relocate	\$100,000.00

# **Guyer HS Multi-Purpose Building and Renovations Denton ISD**

# **CMAR Fees and Rates**

• See attached Fees and Rate Letter dated Jun 9, 2023

# **EXCLUSIONS:**

- Building Information Modeling (BIM). Should owner require BIM, contractor will evaluate need for additional staff and price accordingly
- Night time security guard.
- LEED Certification for project.
- Tri-party agreements and/or City imposed impact fees.
- Off-site or full-size mockups, except as noted in the contract documents
- Any work referenced in the Construction Documents of Preliminary Construction Documents related to a new Softball Field