

Addendum

PFISD CTE Renovations

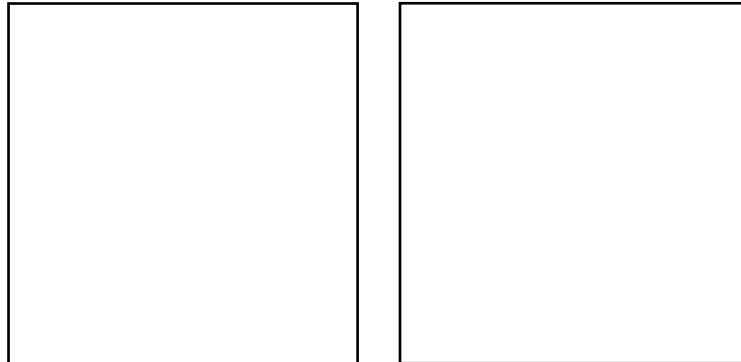
Hendrickson High School

Pflugerville, Texas

O'Connell Robertson Project No. 1865.04

Addendum No. 2

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Addendum No. 2

Date: 10/14/2020

PFISD CTE Renovations

Hendrickson High School

Pflugerville, Texas

Notice To Bidders

A. This Addendum shall be considered part of the Construction Documents dated August 4, 2020, for the above mentioned project, as though it had been issued at the same time and incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original Construction Documents, this Addendum shall govern and take precedence.

B. Bidders are hereby notified that they shall make necessary adjustments in their estimates on account of this Addendum. It will be construed that each bidder's proposal is submitted with full knowledge of all modifications and supplemental data specified herein. Please staple in the back of your specification book.

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PFISD CTE Renovations

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SPECIFICATIONS

- ITEM 1** **Section 01 00 10 – Summary of Work**
- A. **ADDED** article 1.08 – Work Restrictions
 - B. **ADDED** paragraph 1.08.A to read “Work performed during occupied times may not disrupt instruction or operations and must be coordinated with the PfISD Construction Department at least 72 hours prior to commencement. Non-work dates such as testing, etc., will be provided as soon as they are available.”

DRAWINGS

DISCIPLINE: ELECTRICAL

- ITEM E1** **Sheet E3.2 – ELECTRICAL NEW BUILDING PLAN**
- A. **REVISED** to exclude installation heights for 3 cord drops in the shop.
- ITEM E2** **Sheet E6.1 – ELECTRICAL NEW BUILDING PLAN**
- A. **REVISED** to include acceptable alternate light fixtures.

ATTACHMENTS

The following documents (8.5” x 11”) are attached to this Addendum:

- **Pre-Proposal Meeting Sign-in Sheet**

The following drawings (30” x 42”) reflect revisions in the work and are attached to this Addendum:

- E3.2 – ELECTRICAL NEW BUILDING PLAN**
- E6.1 – ELECTRICAL NEW BUILDING PLAN**

END OF ADDENDUM NO. 2

Branch Panel: [EXR] LA-1

Location: [Redacted] Volts: 120/208 Wye A.I.C. Rating: 22000
 Supply From: [Redacted] Phases: 3 Mains Type: MLO
 Mounting: Surface Wires: 4 Mains Rating: 400 A
 Enclosure: Type 1 MCB Rating: 0 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	[EX] LIGHTS A101	20 A	1	0 VA	0 VA			1	20 A [EX] RCPT A105	2
3	[EX] LIGHTS UNDER BACK CANOPY	20 A	1		0 VA	0 VA		1	20 A [EX] RCPT A106 AND A107	4
5	[EX] LIGHT MEZZ	20 A	1			0 VA	0 VA	1	20 A [EX] OUTDOOR WALL LIGHTS	6
7				0 VA	0 VA					8
9	[EX] RTU-1	20 A	3					3	20 A [EX] RTU-2	10
11						0 VA	0 VA			12
13	[EX] WH-1	20 A	2	0 VA	0 VA			1	20 A [EX] EF-1 & EF-2	14
15						0 VA	0 VA			16
17	[EX] RCPT A107	20 A	1			0 VA	0 VA	1	20 A [EX] EF-3 & EF-4	18
19	[EX] RCPT A107	20 A	1	0 VA	0 VA			1	20 A [EX] RCPT A105	20
21	[EX] RCPT A107	20 A	1		0 VA	0 VA		1	20 A [EX] GFCI RCPT A105	22
23	[EX] RCPT A106	20 A	1			0 VA	0 VA	1	20 A [EX] DRINKING FOUNTAIN	24
25	[EX] RCPT A106	20 A	1	0 VA	0 VA			1	20 A [EX] RCPT A101	26
27	[EX] RCPT A105	20 A	1			0 VA	0 VA	1	20 A [EX] GFCI RCPT OUTSIDE A107	28
29	[EX] RCPT A105	20 A	1			0 VA	0 VA	1	20 A [EX] GFCI RCPT OUTSIDE A105	30
31	[EX] RCPT A105	20 A	1	0 VA	0 VA			2	20 A [EX] EQUIP UNDER CANOPY	32
33	[EX] RCPT - UNDER CANOPY	20 A	1		0 VA	0 VA		2	20 A [EX] EQUIP UNDER CANOPY	34
35	[EX] RCPT - UNDER CANOPY	20 A	1			0 VA	0 VA	2	20 A [EX] EQUIP UNDER CANOPY	36
37	[EX] RCPT - UNDER CANOPY	20 A	1	0 VA	0 VA			2	20 A [EX] EQUIP UNDER CANOPY	38
39	[EX] AIR COMPRESSOR	20 A	2			0 VA	0 VA	2	20 A [EX] EQUIP UNDER CANOPY	40
41						0 VA	0 VA			42
				Total Load:	0 VA	0 VA	0 VA			
				Total Amps:	0 A	0 A	0 A			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor				Total Conn. Load: 0 VA
Other				Total Est. Demand: 0 VA
Power				Total Conn.: 0 A
				Total Est. Demand: 0 A

Notes: EXISTING PANEL

Branch Panel: [EXR] LA-2

Location: [Redacted] Volts: 120/208 Wye A.I.C. Rating: 22000
 Supply From: [Redacted] Phases: 3 Mains Type: MLO
 Mounting: Surface Wires: 4 Mains Rating: 100 A
 Enclosure: Type 1 MCB Rating: 0 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	[EX] RCPT - MEZZ - GFCI - ROOF	20 A	1	0 VA	0 VA			1	20 A [EX] FACP	2
3	[EX] PARKING LOT POLE LIGHT	20 A	1		0 VA	0 VA		1	20 A [EX] CIRC PUMP	4
5	[EX] LIGHTING CONTROL CIRCUIT	20 A	1			0 VA	0 VA	1	20 A [EX] QUAD	6
7	[EX] UH-1 & UH-2	20 A	1	0 VA	0 VA			1	20 A [EX] QUAD	8
9	[EX]	20 A	1			0 VA	0 VA	2	20 A [EX] WELDER N WALL	10
11	[EX]	20 A	1			0 VA	0 VA	2	20 A [EX]	12
13	[EX]	20 A	1	0 VA	0 VA			2	20 A [EX]	14
15	[EX]	20 A	2		0 VA	0 VA		2	20 A [EX]	16
17	[EX]	20 A	2			0 VA	0 VA	2	20 A [EX]	18
19	[EX]	20 A	2	0 VA	0 VA			2	20 A [EX]	20
23	[EX]	20 A	2		0 VA	0 VA		2	20 A [EX]	24
25	[EX]	20 A	2		0 VA	0 VA		2	20 A [EX]	26
27	[EX]	20 A	2		0 VA	0 VA		2	20 A [EX]	28
29	[EX]	20 A	2			0 VA	0 VA	1	20 A [EX]	30
31	[EX]	20 A	1	0 VA	0 VA			1	20 A [EX]	32
33	[EX]	20 A	2		0 VA	0 VA		1	20 A [EX]	34
35	[EX]	20 A	2			0 VA	0 VA	2	20 A [EX]	36
37	CORD REELS (NOTE 1)	20 A	1	1080 VA	0 VA			1	20 A WF-A (NOTES 1,2)	38
39	CORD REELS (NOTE 1)	20 A	1		1080 VA	180 VA		1	20 A WF-A (NOTES 1,2)	40
41	RCPT A104, A105 (NOTE 1)	20 A	1			360 VA	180 VA	1	20 A WF-A (NOTES 1,2)	42
				Total Load:	1080 VA	1260 VA	540 VA			
				Total Amps:	10 A	11 A	5 A			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	360 VA	125.00%	450 VA	Total Conn. Load: 2880 VA
Other	1800 VA	100.00%	1800 VA	Total Est. Demand: 2970 VA
Power	720 VA	100.00%	720 VA	Total Conn.: 8 A
				Total Est. Demand: 8 A

Notes: EXISTING PANEL. NOTE 1: PROVIDE NEW CIRCUIT BREAKERS. NOTE 2: ADD ALTERNATE #1

Branch Panel: DCT

Location: [Redacted] Volts: 120/208 Wye A.I.C. Rating: [Redacted]
 Supply From: [Redacted] Phases: 3 Mains Type: MCB
 Mounting: Surface Wires: 4 Mains Rating: 800 A
 Enclosure: Type 1 MCB Rating: 800 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1										2
3	LCT	600 A	3	45280 VA	8667 VA			3	400 A LA-1	4
5					46200 VA	8667 VA				6
7				0 VA	0 VA					8
9	GREENHOUSE PANEL	150 A	3			45568 VA	8667 VA	3	200 A SPARE	10
11						0 VA	0 VA			12
				Total Load:	53947 VA	54867 VA	54235 VA			
				Total Amps:	450 A	458 A	452 A			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	43184 VA	100.00%	43184 VA	Total Conn. Load: 163048 VA
Lighting	1504 VA	125.00%	1880 VA	Total Est. Demand: 170949 VA
Motor	30100 VA	125.00%	37625 VA	Total Conn.: 453 A
Other	35580 VA	100.00%	35580 VA	Total Est. Demand: 475 A
Power	52680 VA	100.00%	52680 VA	

Notes: NEW PANEL

LIGHTING FIXTURE SCHEDULE

NOTES:

TAG	DESCRIPTION	LUMENS	WATTAGE	CCT	MANUFAC TURER	CATALOG NO.	VOLTAGE	MOUNTING	NOTES
HB	High Bay LED	12000 lm	88W	4000 K	Day-Brite	FBY-12L-840-UNV-LFA / HCH10-VHOOK	UNV	Ceiling Structure	
HB-E	High Bay LED - with Emergency Battery	12000 lm	88W	4000 K	Day-Brite	FBY-12-840-UNV-BSL10LST-LFA / HCH10-VHOOK	UNV	Ceiling Structure	
S1	LED STRIP LIGHT	4000 lm	31W	4000 K	Day-Brite	FSS440L840-UNV-DIM	UNV	Ceiling Structure	
SC	Wall Sconce	7386 lm	70W	4000 K	Stonco	LPW32-70-NW-G3-3-UNV-x	UNV	Wall	
SC-E	Wall Sconce with Emergency Battery	7386 lm	70W	4000 K	Stonco	LPW32-70-NW-G3-3-EBP-UNV-x	UNV	Wall	
WP	Wall Pack	5543 lm	49W	4000 K	Stonco	WP-50-NW-G1-8-BZ	UNV	Wall	
X1	Illuminated Emergency Exit Light	446 lm	3.5W	3200 K	Chloride	ER40LD3WRTP	UNV	Wall	

Branch Panel: LCT

Location: [Redacted] Volts: 120/208 Wye A.I.C. Rating: 22000
 Supply From: DCT Phases: 3 Mains Type: MCB
 Mounting: Surface Wires: 4 Mains Rating: 600 A
 Enclosure: Type 1 MCB Rating: 600 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	EF-1	20 A	1	500 VA	3120 VA			2	50 A RCPT - ARC WELDER	4
3	EF-2	20 A	1		500 VA	3120 VA		2	50 A RCPT - ARC WELDER	6
5	CF-1	20 A	2	1040 VA	3120 VA			2	50 A RCPT - ARC WELDER	8
7						1040 VA	3120 VA	2	50 A RCPT - ARC WELDER (GFCI BREAKER)	10
9						10033...	3120 VA	2	50 A RCPT - ARC WELDER (GFCI BREAKER)	12
11	RADIANT HEATER CONTROL PANEL	125 A	3	10033...	3120 VA			2	50 A RCPT - ARC WELDER (GFCI BREAKER)	14
13						3035 VA	3120 VA	2	50 A RCPT - WELDER	16
15	AIR COMPRESSOR	50 A	3	3035 VA	3120 VA			2	50 A RCPT - WELDER	18
17						3035 VA	3120 VA	2	50 A CORD REEL - WELDER	20
19	RCPTS - SHOP	20 A	1		540 VA	3120 VA		2	50 A CORD REEL - WELDER	22
23	RCPTS - SHOP	20 A	1			720 VA	3120 VA	2	50 A CORD REEL - WELDER	24
25	RCPT - EXTERIOR (WELDING)	50 A	2	3120 VA	3120 VA			2	50 A CORD REEL - WELDER	26
27						3120 VA	3120 VA	2	50 A CORD REEL - WELDER	28
29	RCPT - EXTERIOR (WELDING)	50 A	2	3120 VA	3120 VA			2	50 A CORD REEL - WELDER	30
31						3120 VA	3120 VA	1	20 A RCPTS	32
33	CORD DROP - CNC PLASMA TABLE	50 A	2		3120 VA	360 VA		1	20 A CORD REELS - TABLES	34
35						3120 VA	360 VA	1	20 A CORD DROP	36
37	WR RCPTS	20 A	1	360 VA	180 VA			1	20 A CORD REEL	38
39	WR RCPTS	20 A	1		360 VA	1440 VA		1	20 A CORD REEL	40
41	WR RCPTS	20 A	1			540 VA	1440 VA	1	20 A CORD REEL	42
43	LIGHTING	20 A	1	472 VA	360 VA			1	20 A CORD REEL	44
45	LIGHTING	20 A	1		472 VA	1440 VA		1	20 A CORD REEL	46
47	LIGHTING - EXTERIOR	20 A	1			560 VA	1440 VA	1	20 A CORD REEL	48
49	HEAT TRACE	20 A	1	500 VA	360 VA			1	20 A CORD REEL	50
51	RCTP - FUME EXTRACTOR	20 A	1		1440 VA	360 VA		1	20 A CORD REEL	52
53	RCTP - FUME EXTRACTOR	20 A	1			1440 VA	1440 VA	1	20 A CORD REEL	54
55	RCTP - FUME EXTRACTOR	20 A	1	1440 VA	360 VA			1	20 A CORD REEL	56
57	RCTP - FUME EXTRACTOR	20 A	1		1440 VA	1440 VA		1	20 A CORD DROP - CNC PLASMA...	58
59	RCPT - ELECTRICAL CORAL	20 A	1			180 VA	1500 VA	3	20 A WATER HEATER	60
61	RCPT - ELECTRICAL CORAL	20 A	1	180 VA	1500 VA			3	20 A WATER HEATER	62
63						1500 VA				64
65										66
67	SPARE	20 A	1	0 VA	0 VA			1	20 A SPARE	68
69	SPARE	20 A	1		0 VA	0 VA		2	50 A SPARE	70
71	SPARE	20 A	1			0 VA	0 VA	2	50 A SPARE	72
				Total Load:	45280 VA	46200 VA	45568 VA			
				Total Amps:	377 A	385 A	380 A			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	17184 VA	100.00%	17184 VA	Total Conn. Load: 137048 VA
Lighting	1504 VA	125.00%	1880 VA	Total Est. Demand: 144949 VA
Motor	30100 VA	125.00%	37625 VA	Total Conn.: 380 A
Other	35580 VA	100.00%	35580 VA	Total Est. Demand: 402 A
Power	52680 VA	100.00%	52680 VA	

Notes: NEW PANEL

AMPS	3-PHASE/4-WIRE SERVICE	AMPS	3-PHASE/3-WIRE & 1-PHASE	AMPS	3-PHASE/4-WIRE
20	4#12,3/4" C	20	3#12,#12GND,3/4" C	20	4#12,#12GND,3/4" C
30	4#10,3/4" C	30	3#10,#10GND,3/4" C	30	4#10,#10GND,3/4" C
50	4#8,3/4" C	50	3#8,#10GND,3/4" C	50	3#8,#10GND,3/4" C
60	4#6,1" C	60	3#6,#10GND,1" C	60	4#6,#10GND,1" C
80	4#4,1-1/4" C	80	3#4,#8GND,1-1/4" C	80	4#4,#8GND,1-1/4" C
100	4#3,1-1/4" C	100	3#3,#8GND,1-1/4" C	100	4#3,#8GND,1-1/4" C
110	4#2,1-1/2" C	110	3#2,#8GND,1-1/2" C	110	4#2,#8GND,1-1/2" C
125	4#1,1-1/2" C	125	3#1,#6GND,1-1/2" C	125	4#1,#6GND,1-1/2" C
150	4#1/2,2" C	150	3#1/2,#6GND,2" C	150	4#1/2,#6GND,2" C
175	4#2/2,2" C	175	3#2/2,#6GND,2" C	175	4#2/2,#6GND,2" C
200	4#3/2,2-1/2" C	200	3#3/2,#6GND,2-1/2" C	200	4#3/2,#6GND,2-1/2" C
225	4#4/2,2-1/2" C	225	3#4/2,#4GND,2-1/2" C	225	4#4/2,#4GND,2-1/2" C
250	4-250KCMIL,2-1/2" C	250	3-250KCMIL,#4GND,2-1/2" C	250	4-250KCMIL,#4GND,2-1/2" C
300	4-350KCMIL,3" C	300	3-350KCMIL,#4GND,3" C	300	4-350KCMIL,#4GND,3" C
350	4-500KCMIL,3-1/2" C	350	3-500KCMIL,#3GND,3-1/2" C	350	4-500KCMIL,#3GND,3-1/2" C
400	4-600KCMIL,4" C	400	3-600KCMIL,#3GND,4" C	400	4-600KCMIL,#3GND,4" C
450	2 SETS OF 4#4/2,2-1/2" C	450	2 SETS OF 3#4/2,#2GND,2-1/2" C	450	2 SETS OF 4#4/2,#2GND,2-1/2" C
500	2 SETS OF 4-250KCMIL,2-1/2" C	500	2 SETS OF 3-250KCMIL,#2GND,2-1/2" C	500	2 SETS OF 4-250KCMIL,#2GND,2-1/2" C
600	2 SETS OF 4-350KCMIL,3" C	600	2 SETS OF 3-350KCMIL,#1GND,3" C	600	2 SETS OF 4-350KCMIL,#1GND,3" C