ADDENDUM NO. 2

November 14, 2019

New Elementary School at Clay Center Road
Carmel, IN 46032

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications and the Drawings dated October 28, 2019, by CSO Architects. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Page ADD 2-1, ADD 2-2, and CSO Architects Addendum 2, dated November 13, 2019, consisting of 14 pages. Specification Sections 05 70 00 – Decorative Metal By CSO, 09 65 16 - Resilient Sheet Flooring – Vinyl by CSO, 10 14 23 – Panel Signage By CSO and Addendum No. 02 By R.E. Dimond, dated November 13, 2019, consisting of 3 pages and Addendum drawings: L105 – Site Materials by Context, L205 – Layout Plan by Context, L407 - Irrigation Plan By Context, L408 – Irrigation Plan by Context, T203 – Ground Floor Telecom Plan Unit C By Design 27, T304 – Av Diagrams by Design 27, T306 – Av Elevations By Design 27, T500 – Telecom Schedules by Design 27, A411 - Exterior Wall Sections By CSO, A610 – Interior Elevations by CSO, A624 – Millwork Elevations and Details by CSO, A800 – Finish Legend & Notes By CSO, A803 – Enlarged Ground Floor Finish Plan – Unit C by CSO.

A. <u>GENERAL CLARIFICATIONS</u>

Any alternates referenced in the plans that are not scheduled in the 01 23 00 Alternates Specification Section shall be part of the base bid.

B. <u>SPECIFICATION SECTION 01 12 00 Multiple Contract Summary</u>

1. Paragraph 3.03 Bid Categories

A. Bid Category No. 5 – General Trades

<u>Add the following Specification Section:</u>

Section	05 70 00	Decorative Metal
Section	10 14 23	Panel Signage

<u>Delete the following Specification Section:</u>

Section	11 52 13	Projection Screens

F. Bid Category No. 10 – Flooring & Tile

<u>Add the following Specification Section:</u>

Section	09 65 16	Resilient Sheet Flooring

ADDENDUM

CSO
ARCHITECTURE · INTERIOR DESIGN

ADDENDUM NO: 2

BID PACKAGE NO: 3

PROJECT: Carmel Clay Center Elementary School

PROJECT NO: 18095 DATE: 11/13/2019 BY: Brent Hite

JOHN E. RIGSBEE REGISTERED No. 920019 STATE OF INDIANA ARCHITECT

This Addendum is issued in accordance with the provisions of "The General Conditions of the Contract for Construction," Article 1, "Contract Documents" and becomes a part of the Contract Documents as provided therein. This Addendum includes:

Addendum Pages:
Attachments:

05 70 00 – DECORATIVE METAL by CSO
09 65 16 - RESILIENT SHEET FLOORING – VINYL by CSO
10 14 23 – PANEL SIGNAGE by CSO
ADDENDUM No. 02 by R.E.Dimond
L105 – SITE MATERIALS by Context
L205 – LAYOUT PLAN by Context
L407 - IRRIGATION PLAN by Context
L408 – IRRIGATION PLAN by Context
T203 – GROUND FLOOR TELECOM PLAN UNIT C by Design 27
T304 – AV DIAGRAMS by Design 27
T306 – AV ELEVATIONS by Design 27
T500 – TELECOM SCHEDULES by Design 27
A411 - EXTERIOR WALL SECTIONS by CSO
A610 – INTERIOR ELEVATIONS by CSO
A624 – MILLWORK ELEVATIONS AND DETAILS by CSO
A800 – FINISH LEGEND & NOTES by CSO
A803 – ENLARGED GROUND FLOOR FINISH PLAN – UNIT C by CSO

PART 1 - BIDDING AND CONTRACT REQUIRMENTS

1.01 NOT USED

PART 2 - SPECIFICATIONS

2.01 000000 – Table of Contents

A. Add section 10 14 23 – PANEL SIGNAGE under division 10

2.02 01 23 00 – ALTERNATES

A. Add 3.01C as follows

C. Bid Option 3: Quantech

8831 Keystone Crossing, Indianapolis, IN 46240 | 317.848.7800 | csoinc.net

2.03 05 70 00 – DECORATIVE METALS

A. Insert specifications in its entirety.

2.04 07 42 43 – METAL COMPOSITE MATERIAL WALL PANELS

A. Add 2.02A1i as follows:

i. Castle Metal Products, RS-200 Series

2.05 07 54 19 – PVC ROOFING

A. Add 2.01A1c and d as follows:

c. Carlisle (Sure Flex)

d. Flex Roofing Systems

B. Add 2.04c as follows

c. Note: Custom color match required if manufacturer's standard colors do not match color selections indicated above.

C. Add 2.02A1e as follows:

e. Flex Roofing Systems

2.06 09 65 16 – RESILIENT SHEET FLOORING – VINYL

A. Insert specifications in its entirety

2.07 09 64 66 – WOOD ATHLETIC FLOORING

A. Add 2.03A5 as follows:

5. Horner Sports Flooring

2.08 09 84 00 – ACOUSTIC ROOM COMPONENTS

A. Add 2.03 as follows:

2.03 TACKABLE ACOUSTICAL WALL PANELS

A. Manufacturers: Subject to compliance with requirements, provide one of the following:

1. Armstrong World Industries, Inc.
2. Conwed Acoustical Products
3. Golterman & Sabo Acoustics
4. Owens-Corning Fiberglass
5. Kinetics Noise Control, Sports Board Conform
6. Wenger Corporation

7. Xorel Artform by Carnegie

B. Basis of Design: Xorel Artform Shapes by Carnegie, MI-CORE Plank or equivalent

1. Fabric: As indicated on Finish Schedule or, if not indicated, as selected from manufacturer's full range of fabric options.
2. Thickness: ¾"

C. Back-Mounted, Tackable Acoustical Panels: Manufacturers standard panel construction consisting of inorganic minerals and fibers resistant to moisture and warping.

D. Sound-Absorption Performance: Provide acoustical wall panels with minimum noise reduction coefficients as indicated by basis of design product, as determined by testing per ASTM C 423 for mounting type specified.

2.09 10 11 00 – VISUAL DISPLAY UNITS

A. Add 2.02.B as follows:

B. Plastic-Impregnated-Cork Sheet: Seamless, homogeneous, self-sealing sheet consisting of granulated cork, linseed oil, resin binders, and dry pigments that are mixed and calendared onto fabric backing; with integral color throughout with surface-burning characteristics indicated.

B. Add 2.02.E as follows:

E. Extruded Aluminum Trim and Spline: ASTM B 221, Alloy 6063.

C. Add 2.05 as follows:

2.05 TACKABLE ACOUSTIC SURFACE

A. Tackable Printed Visual Display Panel: 100% polyester fiber panel consisting of 50% +/- recycled PET fiber, ½" thick, printed with water or latex based methods

B. Products: Subject to compliance with requirements, provide one of the following:

1. Basis of Design: ezoBord,

a. ezoPrint

2. Approved Equivalent

C. Size: Dimensions as indicated, 1/2" thick

D. Color: Print, style as indicated

1. 600-1,200 dpi print resolution

E. Edge: Square

F. Surface:

1. Front: Plain
2. Back: V-Notch to accommodate wall corner

G. Mount: Tape installation

2.010 10 14 23 – PANEL SIGNAGE

A. Add section in its entirety

1. 10 14 19 – DIMENSIONAL LETTER SIGNAGE

A. Add 1.02.A.2 and 3 as follows:

1.2. Interior cast dimensional characters.
2. Interior cut dimensional characters.

B. Add 2.01.C as follows:

1. C. Cut Characters: Characters with uniform faces, sharp corners, and precisely formed lines and profiles, and as follows:

1. Character Material: Aluminum
2. Character Height: As indicated
3. Thickness: 1/4” and ½” as indicated
4. Finish: Painted
5. Mounting: Exposed stand-off mounts so letters are proud of wall surface.
6. Typeface: As indicated

2.011 12 32 16 – MANUFACTURED PLASTIC-LAMINATE-FACED CASEWORK

A. Add 2.01A5 as follows:

5. Advanced Cabinet Systems (ACS)

2.012 12 93 01 – BALL DIAMOND AND MISCELLANEOUS FURNISHINGS

A. Revise 2.9a to **REMOVABLE** sail shade

27 41 13 - INTEGRATED AUDIO VIDEO EQUIPMENT

A. Removed Item 1.1.D.7. “CAFETERIA PROJECTION SCREEN” from specification.

B. Removed Item 2.2.8 “CAFETERIA PROJECTION SCREEN” from specification.

PART 3 - DRAWINGS

LANDSCAPE

3.01 L100-L106 SITE MATERIALS

A. Clarification: Refer to Carmel Detail 10-7 on C602 for all Multi-Use Path call outs.

3.02 L105 SITE MATERIALS

A. Add exterior concrete path along mechanical and electrical rooms.

3.03 L205 LAYOUT PLAN

A. Add exterior concrete path dimensions along mechanical and electrical rooms.

3.04 L407 & L408 IRRIGATION PLAN & NOTES

A. Add controller symbol on the plans

ARCHITECTURAL

3.05 A110 – GROUND FLOOR LIFE SAFETY PLAN

A. Add a two-hour line around MAIN MECH. ROOM 825, indicating that this room will need to be 2-hour rated construction.

3.06 A120 - COMPOSITE ROOF PLAN

A. ROOF PLAN NOTES

1. Make Roof Plan Note 4. Read as follows:" MECHANICAL EQUIPMENT ON ROOF CURB. TOP OF CURB MINIMUM 12" ABOVE ROOF SURFACE. FLASH PER MANUFACTURERS STANDARD DETAILS AND AS REQUIRED FOR OVERALL ROOF SYSTEM WARRANTY**. PROVIDE ROOF CRICKET AS REQUIRED ON HIGH POINT OF ROOF CURB FOR DRAINAGE AROUND ROOF CURB"**

3.07 A203 – GROUND FLOOR PLAN – UNIT C

A. Graphically add column wraps in OFFICE 109 and OFFICE 110 to align with Plan Note 2.

3.08 A213 – GROUND FLOOR REFLECTED CEILING PLAN - UNIT C

A. REFLECTED CEILING PLAN NOTES

1. Add Reflected ceiling plan note **"8"** as follows to the schedule:

"ALL ITEMS IN THIS CEILING AREA TO BE PAINTED BLACK, DUCTS, STRUCTURE, PIPING, ETC…"

B. Add Reflected Ceiling Plan note **"8"** to PLATFORM 805

C. Add bulkhead to East wall of MAIN MECH ROOM 825, refer to wall section 6/A411 for more detail.

3.09 A411 - EXTERIOR WALL SECTIONS

A. 6/A411 – ENLARGED DETAIL

1. Add 2-hour fire rated bulkhead as shown in the attached sheet.

3.010 A501 – DOOR SCHEDULE

A. REMARKS

1. Add Remark **"11"** as follows:

"OCD / OCHD TO BE INSULATED TYPE WITH ANODIZED FINSIH"

B. DOOR 132B

1. Change height to be **9'-4"**
2. Change finish to be **"AN"**
3. Add remark **"11"**

C. DOOR 815B

1. Change height to be **8'-8"**
2. Change finish to be **"AN"**
3. Add remark **"11"**

D. DOOR 816

1. Change height to be **6'-0"**
2. Change finish to be **"AN"**
3. Add remark **"11"**

E. DOOR 825C

1. Add **"90M"** under UL rating

3.011 A602 – INTERIOR ELEVATIONS – CAFETERIA/ GYMNASIUM

A. 1/A602 – GYMNASIUM 800 – NORTH, 2/A602 – GYMNASIUM 800 – SOUTH

1. Change sloped drywall accent paint to match 8 coursings above, per finish plans.

3.012 A604 – INTERIOR ELEVATIONS – CORRIDORS

A. 1/A604 – CORRIDOR C105

1. Remove wall tile 1 from CMU walls, typical.

B. 2/A604 – CORRIDOR C105

1. Remove wall tile 1 from CMU walls, typical.

2. Remove window film from OHD 125B.

3. Change dimensional letter note from "~~cast~~ aluminum dimensional letters" to "**CUT** ALUMINUM DIMENSIONAL LETTERS **– SEE FINISH PLANS FOR MORE INFORMATION**"

3.013 A606 – INTERIOR ELEVATIONS – ENTRY

A. 1/A606 – CORRIDOR C101

1. Change dimensional letter note from "~~cast~~ aluminum dimensional letters – see ~~A800~~ for more information" to "**CUT** ALUMINUM DIMENSIONAL LETTERS – SEE **FINISH** PLANS FOR MORE INFORMATION"

2. Change accent paint at discovery center entrance to vinyl wall covering, per finish plans.

B. 2/A606 – CORRIDOR C101, 3/A606 – CORRIDOR 101, 4/A606 – CORRIDOR 101, 5/A606 – SECURE VESTIBULE V101/CORRIDOR C101

1. Remove wall tile 1 from CMU walls, typical.

3.014 A607 – INTERIOR ELEVATIONS – DISCOVERY CENTER

A. 1/A607 – DISCOVERY CENTER 120

1. Graphically update drywall niches with shelving to show plastic laminate backer.

B. 4/A607 – DISCOVERY CETNER 120/ MAKER SPACE 125

1. Add accent paint at OHD 120B inset, per finish plans.

2. Change notes under drywall niche dimensions from ~~wood shelving~~ to **plastic laminate shelving**.

3.015 A608 – INTERIOR ELEVATIONS – CLASSROOMS

A. 3/A608 – CLASSROOM TYPE "A" SOUTH ELEVATION

1. Change top row of TB6 height from ~~4'-5 ½"~~ to **4'-0"**

2. Change bottom row of TB6 height from ~~2'-4"~~ to **2'-10"**

B. 12/A608 – CLASSROOM TYPE "C" - WEST ELEVATION

1. Change top row of TB6 height from ~~4'-6"~~ to **4'-0"**

2. Change bottom row of TB6 height from ~~2'-4"~~ to **2'-10"**

3.016 A610 – INTERIOR ELEVATIONS

A. 2/A610: FINISH TAG PL3 CHANGED TO PL1 AT PLATFORM.

B. 4/A610: WT1 REMOVED FROM CMU WALL, PAINT FINISH CHANGED TO EP2/P2.

C. ELEVATION 5 CHANGED TO ELEVATION 6 & HATCH ADDED TO ACCENT PAINT AREAS.

D. NEW ELEVATION 5 ADDED OF ENTRY NORTH.

E. 6-10/A610 CHANGED TO NUMBERS 7-11: UPDATED REPRESENTATION OF STANDOFFS ON MP1 TO CORRECTLY REFLECT ¾" SQUARE SIZE.

F. ELEVATION 12 ADDED OF ENTRY EAST.

G. ELEVATION 13 ADDED OF ENTRY WEST.

3.017 6/A621 - CLINIC 115

A. Add text note as follows to base cabinet 21"x24" 10120 as follows:

"PROVIDE 7" DIAMETER HOLE IN COUNTER W/ STAINLESS STEEL INSERT."

3.018 A624 – MILLWORK ELEVATIONS AND DETAILS

A. Update all elevations, plans and details to reflect finish changes, see attached sheet.

3.019 A701 – ENLARGED RESTROOM PLANS / A320 – GROUND FLOOR PLAN OUTBUILDINGS

A. 1/A701 –ENLARGED RESTROOM PLAN

1. Add tag **T10** above each of the lavatories in SINKS 150, four tags total, one for each lavatory.

B. 10/A701 – ENLARGED RESTROOM PLAN

1. Add tag **T10,** above the lavatory, one tag total.

C. TOILET ACCESSORY SCHEDULE

1. Remove ~~CT1~~ from schedule completely.

2. Remove item ~~T13~~ from the Toilet Accessory Schedule completely.

3. 4/A701, 6/A701, 7/A701, 8/A701, 9/A701,10/A701, 11/A701, 12/A701, 13/A701, 19/A701, 20/A701 1/A702 – ENLARGED RESTROOM PLANS

A. Remove tag "~~T13"~~ for the indicated enlarged restrooms plans

4. T1 – TOILET TISSUE DISPENSER – SURFACE MOUNTED

A. FURNISHED BY – "**OWNER"**

B. INSTALLED BY – "**CONTRACTOR"**

5. T2 – SOAP DISPENSER – SURFACE MOUNTED

A. FURNISHED BY – "**OWNER"**

B. INSTALLED BY – "**CONTRACTOR"**

6. T4 – HORIZONTAL GRAB BAR – 36"

A. FURNISHED BY – "**CONTRACTOR"**

B. INSTALLED BY – "**CONTRACTOR"**

7. T5 – HORIZONTAL GRAB BAR – 42"

A. FURNISHED BY – "**CONTRACTOR"**

B. INSTALLED BY – "**CONTRACTOR"**

8. T7 – TOILET PARTITION

A. FURNISHED BY – "**CONTRACTOR"**

B. INSTALLED BY – "**CONTRACTOR"**

9. T8 – URINAL SCREEN

A. FURNISHED BY – "**CONTRACTOR"**

B. INSTALLED BY – "**CONTRACTOR"**

10. T9 – SANITARY NAPKIN DISPOSAL – SURFACE MOUNTED

A. FURNISHED BY – **"OWNER"**

11. T10 – MIRROR 18"x36"

A. FURNISHED BY – "**CONTRACTOR"**

B. INSTALLED BY – "**CONTRACTOR"**

12. T13 – ACCESS DOOR, NON RATED, ARCHITECTURAL

A. FURNISHED BY – "**CONTRACTOR"**

B. INSTALLED BY – "**CONTRACTOR"**

3.020 A800 – FINISH LEGEND & NOTES

A. KEYED FINISH NOTE F4: REVISED THICKNESS TO ½" AS SHOWN ON SHEET.

B. KEYED FINISH NOTE F27: REVISED AS SHOWN ON SHEET.

C. KEYED FINISH NOTE F41: TEXT ADDED AS SHOWN ON SHEET.

D. KEYED FINISH NOTE F45: TEXT ADDED AS SHOWN ON SHEET.

E. KEYED FINISH NOTE F46: TEXT ADDED AS SHOWN ON SHEET.

F. FINISH PL3: NO LONGER USED.

G. FINISH PL4: CHANGED FROM HARD STOP TO STANDARD LAMINATE.

H. FINISH MP1: STANDOFF SIZE UPDATED AS SHOWN ON SHEET.

I. FINISH WT1: NOTE ADDED ABOUT SPECIAL PRICING AS SHOWN ON SHEET.

J. FINISH WT4: NOTE ADDED ABOUT SPECIAL PRICING AS SHOWN ON SHEET.

K. FINISH WP1: NOTE ADDED ABOUT SPECIAL PRICING AS SHOWN ON SHEET.

L. FINISH WP3: MANUFACTURER STYLE NUMBER ADDED AND SLAT SIZE ADJUSTED AS SHOWN ON SHEET.

M. FINISH WF1 REMOVED FROM PROJECT.

N. FINISH AF1 REMOVED FROM PROJECT

O. FINISH B2: ADDED TEXT "RUBBER" TO FINISH AS SHOWN ON SHEET.

P. ADJUSTED FILL PATTERNS OF TILES IN ELEVATION 1/A800 AND DETAIL 15/A800 TO BETTER SHOW TRANSITIONS WHEN PRINTED IN GRAYSCALE.

Q. ELEVATION 4: ADDED NOTE AS SHOWN ON SHEET.

R. ELEVATION 5: ADDED NOTE AS SHOWN ON SHEET.

S. ELEVATION 6 REMOVED.

T. ELEVATION 7: ADDED NOTE AS SHOWN ON SHEET.

U. ELEVATION 9: WT1 REMOVED FROM CMU WALLS & FINISH TAG PL3 CHANGED TO PL1 AS SHOWN ON SHEET

V. ELEVATION 10: SHELVING AND SEATING NICHES FINISH TAGS REVISED AS SHOWN ON SHEET.

W. ELEVATION 12: EP6 AT INSET CHANGED TO VWC4 AS SHOWN ON SHEET, DIMENSIONAL SIGNAGE DESCRIPTION CHANGED FROM CAST ALUMINUM TO CUT ALUMINUM.

X. ELEVATION 13: WF1 REMOVED FROM GARAGE DOOR, DIMENSIONAL SIGNAGE DESCRIPTION CHANGED FROM CAST ALUMINUM TO CUT ALUMINUM.

Y. ELEVATION 14 ADDED FOR MARKERBOARD & TACKBOARD AT ACTIVITY COMMONS ENTRANCES AS SHOWN ON SHEET. ALL LOCATIONS TO HAVE SAME FINISHES.

Z. DETAIL 19 REMOVED.

3.021 A801 ENLARGED GROUND FLOOR FINISH PLAN – UNIT A

A. KEYED FINISH NOTES F45 & F46 ADDED TO VWC2 FINISH TAG AT CORRIDORS C200 AND C300.

3.022 A802 ENLARGED GROUND FLOOR FINISH PLAN – UNIT B

A. KEYED FINISH NOTES F45 & F46 ADDED TO VWC2 FINISH TAG AT CORRIDORS C400 AND C500.

3.023 A803 ENLARGED GROUND FLOOR FINISH PLAN – UNIT C

A. KITCHEN 817/SERVING LINE: WALL TILE REMOVED FROM AREA, OVERALL ROOM FINISH TAG CHANGED TO EP1, & EP2 ACCENT ADDED AS SHOWN ON SHEET.

B. CORRIDOR C105: WALL TILE REMOVED FROM CMU WALLS AND FINISH TAG EP2 ADDED.

C. CORRIDOR C105 & MAKERSPACE: KEYED FINISH NOTE F4 CHANGED TO F41 AT MAKERSPACE GARAGE DOOR.

D. CORRIDOR C101: WALL TILE REMOVED FROM CMU WALLS, FINISH TAG EP6 ADDED TO INSET AT GYM ENTRANCE, AND FINISH TAG EP2 ADDED TO REMAINDER OF CMU WALLS AS SHOWN ON SHEET.

E. CORRIDOR C101 & DISCOVERY CENTER: KEYED FINISH NOTE F4 CHANGED TO F41 AT DISCOVERY CENTER GARAGE DOOR.

F. OFFICE 121: CARPET FINISH CHANGED FROM C1 TO C13 TO MATCH DISCOVERY CENTER.

G. CORRIDOR C101: KEYED FINISH NOTE F27 ADDED TO ALL PFT1 & PFT2 FINISH TAGS.

3.024 A804 ENLARGED GROUND FLOOR FINIS PLAN – UNIT D

A. KEYED FINISH NOTES F45 & F46 ADDED TO VWC2 FINISH TAG AT CORRIDORS C600 AND C700.

3.025 A900 – EQUIPMENT SCHEDULE

A. KL1

1. Change Specification number to **“11 95 00”**

B. WP2

1. Change Specification number to **"11 66 25"**

C. OP1

1. Change Specification number to **"10 22 38"**

D. DC1

1. Change Specification number to **"10 12 00"**

E. GM1

1. Change Specification number to **"11 66 23"**

3.026 A901 – GROUND FLOOR EQUIPMENT PLAN – UNIT A

A. Add a tag for **"TB5 (8')"** outside of MUSIC 145

3.027 A902 – GROUND FLOOR EQUIPMENT PLAN – UNIT B

1. Add a tag for **"TB5 (8')"** outside of ART 143

3.028 A903 – GROUND FLOOR EQUIPMENT PLAN – UNIT C

A. WORKROOM 103

1. Add a tag for "**MB2"** and "**TB5"** on plan East wall of WORKROOM 103

TECHNOLOGY

3.029 SHEET T203 – GROUND FLOOR TELECOM PLAN UNIT C

A. Removed Projector, Projection Screen, AV Inputs from CAFETERIA 810

B. Updated sheet note #4 to now read "NOT USED"

C. Removed Section Elevations from the floorplan

1. 1/T307
2. 2/T307

3.030 SHEET T304 – AV ELEVATIONS

A. Revised detail #3 "GYMNASIUM/CAFETERIA AV DIAGRAM" to remove projector, projection screen relay, and AV inputs from CAFETERIA 810

3.031 SHEET T306 – AV ELEVATIONS

A. Removed detail #5 "CAFETERIA PROJECTION SCREEN FRONT ELEVATION"

B. Removed detail #6 "CAFETERIA PROJECTION SCREEN SIDE ELEVATION"

3.032 SHEET T500 – TELECOM SCHEDULES

A. Updated telecom schedule "MDF 130 TELECOM SCHEDULE" to account for the removal of the projector in CAFETERIA 810.

PART 4 - OTHER ITEMS

4.01 NOT USED

A. NOT USED

PART 5 - QUESTION AND ANSWER

5.01 HAS SPECIFICATION SECTION 03 30 00 BEEN OMITTED FROM THE SPECIFICATIONS?

A. No, please reference specification sections in bid package two – structural package for Clay Center Road Elementary on Skillman's plan room website for the following specification sections as required.

03 30 00	Cast-in-place concrete
05 12 00	Structural Steel Framing
05 12 13	Architecturally Exposed Structural Steel Framing
05 21 00	Steel Joist Framing
05 31 00	Steel Decking
05 31 23	Dovetail Steel Decking
31 20 10	Earthwork - Building
31 62 50	Aggregate Piers

5.02 SINCE THE NAME OF THE SCHOOL IS TO BE DETERMINED HOW MANY LETTERS SHOULD BE INCLUDED FOR EXTERIOR AND INTERIOR BUILDING SIGNAGE THAT INDICATES THE SCHOOL NAME ("NEW ELEMENTARY")?

A. Please include up to 26 letters for signage locations noted as 'new elementary' on interior and exterior of building. Building name will be determined during construction.

5.03 THERE IS NO SPECIFICATION SECTION 11 52 13 PER BID CATEGORY #5 REQUIREMENTS, PLEASE ADVISE.

A. Projection screen information is included in section 27 41 16 and located on the T-series sheets.

5.04 PLEASE ADVISE WHERE ROW PAVEMENT SECTIONS ARE REQUIRED.

A. Any and all new pavement within the right-of-way should be provided per the typical collector street pavement section 10-7. The asphalt surface shall be 1.5" HMA surface 9.5mm as indicated on the Carmel Standard detail drawing.

END OF ADDENDUM

SECTION 09 65 16 - RESILIENT SHEET FLOORING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

A. Section includes vinyl sheet flooring.

1.03 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For each type of flooring. Include flooring layouts, locations of seams, edges, columns, doorways, enclosing partitions, built-in furniture, cabinets, and cutouts.

1. Show details of special patterns.

C. Samples for Initial Selection: For each type of resilient sheet flooring indicated.

D. Samples for Verification: In manufacturer's standard size, but not less than 6-by-9-inch (150-by-230-mm) sections of each different color and pattern of resilient sheet flooring required.

1. For heat-welding bead, manufacturer's standard-size Samples, but not less than 9 inches (230 mm) long, of each color required.

E. Welded-Seam Samples: For seamless-installation technique indicated and for each resilient sheet flooring product, color, and pattern required; with seam running lengthwise and in center of 6-by-9-inch (150-by-230-mm) Sample applied to a rigid backing and prepared by Installer for this Project.

F. Product Schedule: For resilient sheet flooring. Use same designations indicated on Drawings.

1.04 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

1.05 CLOSEOUT SUBMITTALS

A. Maintenance Data: For each type of resilient sheet flooring to include in maintenance manuals.

1.06 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Resilient Sheet Flooring: Furnish not less than 10 linear feet (3 linear m) for every 500 linear feet (150 linear m) or fraction thereof, in roll form and in full roll width for each type, color, and pattern of flooring installed.

1.07 QUALITY ASSURANCE

A. Installer Qualifications: A qualified installer who employs workers for this Project who are competent in techniques required by manufacturer for resilient sheet flooring installation and seaming method indicated.

1. Engage an installer who employs workers for this Project who are trained or certified by resilient sheet flooring manufacturer for installation techniques required.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Store resilient sheet flooring and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F (10 deg C) or more than 90 deg F (32 deg C). Store rolls upright.

1.09 FIELD CONDITIONS

A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 deg F (21 deg C) or more than 85 deg F (29 deg C) , in spaces to receive resilient sheet flooring during the following time periods:

1. 48 hours before installation.
2. During installation.
3. 48 hours after installation.

B. After installation and until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 deg F (13 deg C) or more than 95 deg F (35 deg C) .

C. Close spaces to traffic during resilient sheet flooring installation.

D. Close spaces to traffic for 48 hours after resilient sheet flooring installation.

E. Install resilient sheet flooring after other finishing operations, including painting, have been completed.

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. Fire-Test-Response Characteristics: For resilient sheet flooring, as determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.

1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

2.02 VINYL SHEET FLOORING

A. Acceptable Manufacturers: Subject to compliance with requirements, provide one of the following:

1. Armstrong World Industries, Inc; .
2. Forbo Industries, Inc; .
3. Gerflor; .
4. Johnsonite; A Tarkett Company; .
5. Mannington Mills, Inc; .
6. Polyflor, Ltd., Distributed by Gerbert Limited; .

B. Product Standard: ASTM F 1913.

C. Thickness: 0.080 inch (2.0 mm).

D. Wearing Surface: Smooth.

E. Wear layer Thickness: .02”

F. Sheet Width: As standard with manufacturer .

G. Seamless-Installation Method: Heat welded .

H. Colors and Patterns: Refer to Drawings – Material Finish Schedule and Finish Plans.

2.03 INSTALLATION MATERIALS

A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic-cement-based formulation provided or approved by resilient sheet flooring manufacturer for applications indicated.

B. Adhesives: Water-resistant type recommended by flooring and adhesive manufacturers to suit resilient sheet flooring and substrate conditions indicated.

1. Adhesives shall have a VOC content of 60 g/L or less.

C. Seamless-Installation Accessories:

1. Heat-Welding Bead: Manufacturer's solid-strand product for heat welding seams.

a. Color: As selected by Architect from manufacturer's full range to contrast with flooring .

D. Integral-Flash-Cove-Base Accessories:

1. Cove Strip: 1-inch (25-mm) radius provided or approved by resilient sheet flooring manufacturer.
2. Cap Strip: Square metal, vinyl, or rubber cap provided or approved by resilient sheet flooring manufacturer.
3. Corners: Metal inside and outside corners and end stops provided or approved by resilient sheet flooring manufacturer.

E. Floor Polish: Provide protective, liquid floor-polish products recommended by resilient sheet flooring manufacturer.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient sheet flooring.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Prepare substrates according to resilient sheet flooring manufacturer's written instructions to ensure adhesion of resilient sheet flooring.

B. Concrete Substrates: Prepare according to ASTM F 710.

1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by resilient sheet flooring manufacturer. Do not use solvents.
3. Alkalinity and Adhesion Testing: Perform tests recommended by resilient sheet flooring manufacturer. Proceed with installation only after substrate alkalinity falls within range on pH scale recommended by manufacturer in writing, but not less than 5 or more than 9 pH.
4. Moisture Testing: Proceed with installation only after substrates pass testing according to resilient sheet flooring manufacturer's written recommendations, but not less stringent than the following:

a. Perform anhydrous calcium chloride test according to ASTM F 1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m) in 24 hours.
b. Perform relative humidity test using in situ probes according to ASTM F 2170. Proceed with installation only after substrates have a maximum 75 percent relative humidity level.

C. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.

D. Do not install resilient sheet flooring until it is the same temperature as the space where it is to be installed.

1. At least 48 hours in advance of installation, move flooring and installation materials into spaces where they will be installed.

E. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient sheet flooring.

3.03 RESILIENT SHEET FLOORING INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient sheet flooring.

B. Unroll resilient sheet flooring and allow it to stabilize before cutting and fitting.

C. Lay out resilient sheet flooring as follows:

1. Maintain uniformity of flooring direction.
2. Minimize number of seams; place seams in inconspicuous and low-traffic areas, at least 6 inches (152 mm) away from parallel joints in flooring substrates.
3. Match edges of flooring for color shading at seams.
4. Avoid cross seams.

D. Scribe and cut resilient sheet flooring to butt neatly and tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, and door frames.

E. Extend resilient sheet flooring into toe spaces, door reveals, closets, and similar openings.

F. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on resilient sheet flooring as marked on substrates. Use chalk or other nonpermanent marking device.

G. Install resilient sheet flooring on covers for telephone and electrical ducts and similar items in installation areas. Maintain overall continuity of color and pattern between pieces of flooring installed on covers and adjoining flooring. Tightly adhere flooring edges to substrates that abut covers and to cover perimeters.

H. Adhere resilient sheet flooring to substrates using a full spread of adhesive applied to substrate to produce a completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.

I. Seamless Installation:

1. Heat-Welded Seams: Comply with ASTM F 1516. Rout joints and heat weld with welding bead to permanently fuse sections into a seamless flooring. Prepare, weld, and finish seams to produce surfaces flush with adjoining flooring surfaces.

J. Integral-Flash-Cove Base: Cove resilient sheet flooring to dimension indicated up vertical surfaces. Support flooring at horizontal and vertical junction with cove strip. Butt at top against cap strip.

1. Install metal corners at inside and outside corners.

3.04 CLEANING AND PROTECTION

A. Comply with manufacturer's written instructions for cleaning and protecting resilient sheet flooring.

B. Perform the following operations immediately after completing resilient sheet flooring installation:

1. Remove adhesive and other blemishes from surfaces.
2. Sweep and vacuum surfaces thoroughly.
3. Damp-mop surfaces to remove marks and soil.

C. Protect resilient sheet flooring from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.

D. Floor Polish: Remove soil, adhesive, and blemishes from flooring surfaces before applying liquid floor polish.

1. Apply two coat(s).

E. Cover resilient sheet flooring until Substantial Completion.

END OF SECTION

SECTION 10 14 23 – PANEL SIGNS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

A. This Section includes the following:

1. Exterior/Interior panel signs.
2. Signage accessories.
3. Field applied, vinyl-character signs and graphics

1.03 SUBMITTALS

A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of sign.

B. Shop Drawings: Include plans, elevations, and large-scale sections of typical members and other components. Show mounting methods, grounds, mounting heights, layout, spacing, reinforcement, accessories, and installation details.

1. Provide message list for each sign, including large-scale details of wording, lettering, artwork, and braille layout.

C. Samples for Initial Selection: For each type of sign material indicated that involves color selection.
1. Acrylic Sheet: 8 by 10 inches for each color required.
2. Polycarbonate Sheet: 8 by 10 inches for each color required.
3. Panel Signs: Typical room sign, actual size.
4. Include representative Samples of available typestyles and graphic symbols

D. Sign Schedule: Sign manufacturer shall develop a signage schedule using the same designations indicated on Drawings and coordinated with the Owner.

1.04 QUALITY ASSURANCE

A. Installer Qualifications: An authorized representative of signage manufacturer for installation and maintenance of units required for this Project.

B. Source Limitations: Obtain each sign type through one source from a single manufacturer.

C. Regulatory Requirements: Comply with the Americans with Disabilities Act (ADA) and with code provisions as adopted by authorities having jurisdiction.

1.05 PROJECT CONDITIONS

A. Field Measurements: Where sizes of signs are determined by dimensions of surfaces on which they are installed, verify dimensions by field measurement before fabrication and indicate measurements on Shop Drawings.

1.06 COORDINATION

A. For signs supported by or anchored to permanent construction, advise installers of anchorage devices about specific requirements for placement of anchorage devices and similar items to be used for attaching signs.

1. For signs supported by or anchored to permanent construction, furnish templates for installation of anchorage devices.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Provide signs manufactured by one of the following:

1. Ace Sign Systems, Inc.
2. ASI Sign Systems, Inc.
3. Essential Architectural Signs
4. Sign Solutions
5. A.R.K. Ramos.
6. Best Sign Systems
7. Gemini Incorporated.
8. InPro Corporation
9. Matthews International Corporation; Bronze Division.
10. Southwell Co. (The).

2.02 MATERIALS

A. Acrylic Sheet: ASTM D 4802, Category A-1 (cell-cast sheet), Type UVA (UV absorbing).

B. Polycarbonate Sheet: Of thickness indicated, manufactured by extrusion process, coated on both surfaces with abrasion-resistant coating:

1. Abrasion Resistance: 1.5 percent maximum haze increase for 100 revolutions of a Taber abraser with a load of 500 g per ASTM D 1044.

2.03 PANEL SIGNS

A. General: Provide panel signs that comply with requirements indicated for materials, thicknesses, finishes, colors, designs, shapes, sizes, and details of construction.

B. Clear Matte Acrylic Sheet: .080-inch thick with back side painted.

C. Raised Copy: Die-cut characters from flexible modified acrylic. Apply copy to exposed face of panel sign.

D. Cast-Acrylic Back-Up Sheet: Manufacturer's standard. 0.125-inch thick, and as follows:

1. Color: As selected by Architect from manufacturer's full range.

E. Colored Coatings for Acrylic Sheet: For background colors, provide colored coatings, including inks, dyes, and paints, that are recommended by acrylic manufacturers for optimum adherence to acrylic surface and are UV and water resistant for application intended.

1. Color: As selected by Architect from manufacturer's full range.

2.04 PANEL SIGN FABRICATION

A. Unframed Panel Signs: Fabricate signs with edges mechanically and smoothly finished to comply with the following requirements:

1. Edge Condition: Square cut.
2. Corner Condition: Rounded.
3. Surface: Provide smooth sign panel surfaces constructed to remain flat under installed conditions within a tolerance of plus or minus 1/16 inch measured diagonally from corner to corner.

B. Graphic Content and Style: Provide sign copy that complies with requirements indicated on the sign schedule developed by the sign manufacturer and approved by the Owner for size, style, spacing, content, mounting height and location, material, finishes, and colors of signage.

C. Tactile and Braille Sign: Manufacturer's standard process for producing text and symbols complying with ADA-ABA Accessibility Guidelines and with ICC/ANSI A117.1. Text shall be accompanied by Grade 2 Braille. Produce precisely formed characters with square-cut edges free from burrs and cut marks; Braille dots with domed or rounded shape.

1. Raised-Copy Thickness: Not less than 1/32 inch (0.8 mm).

D. Mounting: Wall and door mounted with two-face tape.

1. Provide blank back panels for all locations where signs are mounted on glass.

2. Provide a mechanical tamper proof mount for exterior locations

2.05 ACCESSORIES

A. Mounting Methods: Use double-sided vinyl tape fabricated from materials that are not corrosive to sign material and mounting surface.

B. Anchors and Inserts: Provide nonferrous-metal or hot-dip galvanized anchors and inserts for exterior installations and elsewhere as required for corrosion resistance. Use toothed steel or lead expansion-bolt devices for drilled-in-place anchors. Furnish inserts, as required, to be set into concrete or masonry work.

2.06 FIELD-APPLIED, VINYL-CHARACTER SIGNS

A. Field-Applied, Vinyl-Character and graphics Sign : Graphics and prespaced characters die cut from **3.5-mil** thick, weather-resistant vinyl film with release liner on the back and carrier film on the front for on-site alignment and application.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following :

2. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawing**s** or comparable product by one of the following:
   a. Allen Markings International.
   b. ASI Sign Systems, Inc.
   c. Best Sign Systems Inc.
   d. Mohawk Sign Systems.
   e. Nelson-Harkins Industries.
   f. Seton Identification Products.

3. Size: 24” or as indicated on the drawings.

4. Substrate: Gypsum board walls.

5. Text and Font: As indicated.

6. Materials

a. Vinyl Film: UV-resistant vinyl film of nominal thickness indicated, with pressure-sensitive, permanent adhesive on back; die cut to form characters or images as indicated and suitable for exterior applications.

2.07 FINISHES, GENERAL

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Protect mechanical finishes on exposed surfaces from damage by applying strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.

B. Verify that items[, including anchor inserts, provided under other sections of Work are sized and located to accommodate signs.

C. Examine supporting members to ensure that surfaces are at elevations indicated or required to comply with authorities having jurisdiction and are free from dirt and other deleterious matter.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. General: Locate signs and accessories where indicated, using mounting methods of types described and in compliance with manufacturer's written instructions.

1. Install signs level, plumb, and at heights indicated, with sign surfaces free from distortion and other defects in appearance.
2. Wall Signs: Install signs on walls adjacent to latch side of door where applicable. Where not indicated or possible, such as double doors, install signs on nearest adjacent walls. Locate to allow approach within 3 inches of sign without encountering protruding objects or standing within swing of door.

B. Wall-Mounted Panel Signs: Attach panel signs to wall surfaces using methods indicated below:

1. Vinyl-Tape Mounting: Use double-sided foam tape to mount signs to smooth, nonporous surfaces. Do not use this method for vinyl-covered or rough surfaces.
2. Where panel signs are scheduled or indicated to be mounted on glass, provide matching plate on opposite side of glass to conceal mounting materials.

C. Field-Applied, Vinyl-Character Signs: Clean and dry substrate. Align sign characters in final position before removing release liner. Remove release liner in stages, and apply and firmly press characters into final position. Press from the middle outward to obtain good bond without blisters or fishmouths. Remove carrier film without disturbing applied vinyl film.

3.03 CLEANING AND PROTECTION

A. After installation, clean soiled sign surfaces according to manufacturer's written instructions. Protect signs from damage until acceptance by Owner.

3.04 INTERIOR SIGNAGE SCHEDULE

A. Signage:

1. Material: Back-painted acrylic on acrylic backup sheet with metal trim at bottom with a custom logo on each sign
2. Copy: Surface, tactile and braille.
3. Character Style: Optima – match existing
4. Custom Character Color: As selected from manufacturer’s full range or indicated in drawings.
5. Text/Message: Room name as indicated on plans.
6. Text for Toilet Rooms: According to requirements in the ADA or of authorities having jurisdiction, whichever are more stringent.
7. Sizes:

   a. Sign: 8” x 8” or as indicated.
   b. Character: Minimum 3/4-inch-high characters.

B. Provide the following types of signs matching the existing signage at the following types of areas in all newly renovated areas:

1. Private Offices and Classrooms: Include room number and a nameplate window to receive a changeable paper insert prepared by the Owner.
2. Stairways: Provide room number, Room name and pictograph of stairway
3. Toilet Rooms: Provide room number, Room name and pictograph of gender and accessibility symbol
4. Storage Rooms: Room Number, Room Name
5. Janitor’s Closets: Room Number, Room Name:
6. Mechanical and/or Electrical Rooms: Room Number, Room Name
7. Other Rooms: Room Number, Room Name
8. Plumbing Chases, access doors, other non-occupied spaces: Room Number.

END OF SECTION

SECTION 05 70 00 - DECORATIVE METAL

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

A. Section Includes:

1. Deorative Metal as shown on drawings and schedules.

1.03 ACTION SUBMITTALS

A. Product Data: For each type of product indicated, including finishing materials.

B. Shop Drawings: Show fabrication and installation details for decorative metal.

1. Include plans, elevations, component details, and attachments to other work.
2. Indicate materials and profiles of each decorative metal member, fittings, joinery, finishes, fasteners, anchorages, and accessory items.

C. Samples for Initial Selection: For products involving selection of color, texture, or design including mechanical finishes.

D. Samples for Verification: For each type of exposed finish required.

1. Sections, 6 inches long, of linear shapes.

2. Samples of joints showing quality of workmanship and color matching of materials.

1.04 INFORMATIONAL SUBMITTALS

A. Qualification Data: For qualified fabricator

B. Welding certificates.

1.05 QUALITY ASSURANCE

A. Fabricator Qualifications: A firm experienced in producing decorative metal similar to that indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

B. Installer Qualifications: Fabricator of products.

C. Organic-Coating Applicator Qualifications: A firm experienced in successfully applying organic coatings, of type indicated, to aluminum extrusions and employing competent control personnel to conduct continuing, effective quality-control program to ensure compliance with requirements.

D. Anodic Finisher Qualifications: A firm experienced in successfully applying anodic finishes of type indicated and employing competent control personnel to conduct continuing, effective quality-control program to ensure compliance with requirements.

E. Powder-Coating Applicator Qualifications: A firm experienced in successfully applying powder coatings of type indicated and employing competent control personnel to conduct continuing, effective quality-control program to ensure compliance with requirements.

F. Welding Qualifications: Qualify procedures and personnel according to the following:

1. AWS D1.2/D1.2M, "Structural Welding Code - Aluminum."

G. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.

1. Build mockups for the following types of decorative metal:

a. Aluminum decorative metal

2. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Store decorative metal in a well-ventilated area, away from uncured concrete and masonry, and protected from weather, moisture, soiling, abrasion, extreme temperatures, and humidity.

B. Deliver and store cast-metal products in wooden crates surrounded by sufficient packing material to ensure that products will not be cracked or otherwise damaged.

1.07 PROJECT CONDITIONS

A. Field Measurements: Verify actual locations of walls and other construction contiguous with decorative metal by field measurements before fabrication and indicate measurements on Shop Drawings.

B. Maintain a constant temperature range of 65 degrees F to 85 degrees F (18 degrees C-24 degrees C), with stable relative humidity, for at least 48 hours prior t, throughout the installation period and maintained consistency thereafter.

C. Installation locations must be enclosed, weatherproofed and climate controlled prior to commencing installation.

1.08 COORDINATION

A. Coordinate installation of anchorages for decorative metal items. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Decorative Metals:

a. Moz Designs, Inc. or
b. Approved Equal

2.02 METALS, GENERAL

A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. Provide materials without seam marks, roller marks, rolled trade names, stains, discolorations, or blemishes.

2.03 ALUMINUM

A. Aluminum, General: Provide alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with strength and durability properties for each aluminum form required not less than that of alloy and temper designated below.

1. Thickness: .125” type 5052 alloy complying with ASTM B209
2. Size: As indicated
3. Grain: Coarse
4. Finish: Matte, polycoat
5. Color: As indicated
6. Trim: Aluminum, as indicated, provided by same manufacturer as panel

2.04 FASTENERS

A. Fastener Materials: Unless otherwise indicated, provide the following:

1. Aluminum Items: Aluminum or other compatible fastener.

B. Fasteners for Anchoring to Other Construction: Unless otherwise indicated, select fasteners of type, grade, and class required to produce connections suitable for anchoring indicated items to other types of construction indicated.

C. Provide concealed fasteners for interconnecting components and for attaching decorative metal items to other work unless otherwise indicated.

D. Anchors, General: Anchors capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit masonry and four times the load imposed when installed in concrete, as determined by testing according to ASTM E 488, conducted by a qualified independent testing agency.

E. Post-Installed Anchors:

1. Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B 633 or ASTM F 1941 (ASTM F 1941M), Class Fe/Zn 5 unless otherwise indicated.

2.05 MISCELLANEOUS MATERIALS

A. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.

1. For aluminum, provide type and alloy as recommended by producer of metal to be welded and as required for color match, strength, and compatibility in fabricated items.

B. Etching Cleaner for Galvanized Metal: Complying with MPI#25.

C. Galvanizing Repair Paint: High-zinc-dust-content paint complying with SSPC-Paint 20 and compatible with paints specified to be used over it.

2.06 FABRICATION, GENERAL

A. Assemble items in the shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation. Use connections that maintain structural value of joined pieces.

B. Make up wire-rope assemblies in the shop to field-measured dimensions with fittings machine swaged. Minimize amount of turnbuckle take-up used for dimensional adjustment so maximum amount is available for tensioning wire ropes. Tag wire-rope assemblies and fittings to identify installation locations and orientations for coordinated installation.

C. Form decorative metal to required shapes and sizes, true to line and level with true curves and accurate angles and surfaces. Finish exposed surfaces to smooth, sharp, well-defined lines and arris.

D. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing the Work.

E. Form simple and compound curves in bars, pipe, tubing, and extruded shapes by bending members in jigs to produce uniform curvature for each configuration required; maintain cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces.

F. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch (1 mm) unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.

G. Mill joints to a tight, hairline fit. Cope or miter corner joints. Fabricate connections that will be exposed to weather in a manner to exclude water.

H. Provide weep holes where water may accumulate. Locate weep holes in inconspicuous locations.

I. Provide necessary rebates, lugs, and brackets to assemble units and to attach to other work. Cut, reinforce, drill, and tap as needed to receive finish hardware, screws, and similar items unless otherwise indicated.

2.07 FINISHES, GENERAL

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

2.08 ALUMINUM FINISHES

A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.

B. Baked-Enamel or Powder-Coat Finish: AAMA 2603 except with a minimum dry film thickness of 1.5 mils (0.04 mm). Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.

1. Color and Gloss: As indiciated

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of decorative metal.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION, GENERAL

A. Provide anchorage devices and fasteners where needed to secure decorative metal to in-place construction.

B. Perform cutting, drilling, and fitting required to install decorative metal. Set products accurately in location, alignment, and elevation, measured from established lines and levels. Provide temporary bracing or anchors in formwork for items to be built into concrete, masonry, or similar construction.

C. Fit exposed connections accurately together to form tight, hairline joints or, where indicated, uniform reveals and spaces for sealants and joint fillers. Where cutting, welding, and grinding are required for proper shop fitting and jointing of decorative metal, restore finishes to eliminate evidence of such corrective work.

D. Do not cut or abrade finishes that cannot be completely restored in the field. Return items with such finishes to the shop for required alterations, followed by complete refinishing, or provide new units as required.

E. Install concealed gaskets, joint fillers, insulation, and flashings as work progresses.

F. Restore protective coverings that have been damaged during shipment or installation. Remove protective coverings only when there is no possibility of damage from other work yet to be performed at same location.

1. Retain protective coverings intact; remove coverings simultaneously from similarly finished items to preclude nonuniform oxidation and discoloration.

G. Field Welding: Comply with applicable AWS specification for procedures of manual shielded metal arc welding and requirements for welding and for finishing welded connections in "Fabrication, General" Article. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations.

H. Field Brazing: Comply with requirements for brazing and for finishing brazed connections in "Fabrication, General" Article. Braze connections that are not to be left as exposed joints but cannot be shop brazed because of shipping size limitations.

I. Corrosion Protection: Coat concealed surfaces of aluminum that will be in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.

3.03 CLEANING AND PROTECTION

A. Unless otherwise indicated, clean metals by washing thoroughly with clean water and soap, rinsing with clean water, and drying with soft cloths.

B. Clean copper alloys according to metal finisher's written instructions in a manner that leaves an undamaged and uniform finish matching approved Sample.

C. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.

1. Apply by brush or spray to provide a minimum 2.0-mil (0.05-mm) dry film thickness.

D. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A 780.

E. Protect finishes of decorative metal from damage during construction period with temporary protective coverings approved by decorative metal fabricator. Remove protective covering at time of Substantial Completion.

F. Restore finishes damaged during installation and construction period so no evidence remains of correction work. Return items that cannot be refinished in the field to the shop; make required alterations and refinish entire unit, or provide new units.

END OF SECTION

R.E. Dimond
Consulting Engineers

ADDENDUM NO. 02

Carmel Clay Schools
New Elementary School
Clay Center Road
Carmel, IN 46032

November 13, 2019

STAMP

_____
PE

This Addendum issued prior to bidding, alters, amends, corrects or clarifies the Proposal Documents to the extent stated herein and does hereby become a part of the Proposal Documents, and will become a part of the Contract Documents of the successful bidder.

GENERAL

A. SPECIFICATIONS
1. Section No. - Section Name
   a. Page No. - Paragraph No.
      1) State Change

MECHANICAL

A. SPECIFICATIONS:
1. Section No. 23 63 16 – Air-Cooled Condensers and Refrigeration Specialties
   a. Add the following paragraph "P" to section 2.2:

      P. Acoustics
         1. Air Cooled Condensers shall have a maximum Sound Power Overall Weighted average of 88 dBA.

2. Section No. 23 64 26 – Scroll Chillers with Remote Air Cooled Condenser
   a. Add "Quantech" to the approved manufacturer list in 2.1, A.

B. DRAWINGS:
1. M203 – Ground Floor Plan – Unit C – Air Distribution
   a. Reissue sheet in its entirety to clarify duct construction for kitchen exhaust hoods. Revise double deflection supply grilles in Vestibule V101 and Corridor C101 to Linear Bar Grilles.
2. M301 – Enlarged Ground Floor Mechanical Room Plan
   a. Reissue sheet in its entirety to show chilled water system bypass, additional shutoff valves, and to clarify the location of the roof mounted ACC's and EF.

3. M302 – Enlarged Unit A/B Mezzanine Plan
    a. Reissue sheet in its entirety to show duct revisions.
4. M302.1 – Enlarged Mechanical Room Sections
    a. Reissue sheet in its entirety clarifying mechanical room sections.
5. M303 – Enlarged Unit C/D Mezzanine Plan
    a. Reissue sheet in its entirety to show revised ACC locations and duct revisions.
6. M303.1 – Enlarged Mechanical Room Sections
    a. Reissue sheet in its entirety clarifying mechanical room sections.
7. M413 – Profiles – Air Handling Units
    a. Reissue sheet in its entirety to show revised damper locations.

ELECTRICAL

A. SPECIFICATIONS:

1. Section 26 56 68 - Exterior Athletic Lighting
    a. Paragraph 1.10.A, Replace “Ten years” with Twenty-five years.”
    b. Paragraph 1.10.A.1, Replace “Ten years” with Twenty-five years.”
    c. Paragraph 1.11.A, Replace “10 years” with “25 years.”
    d. Paragraph 2.2.A, Change facility type to “Amateur League.”
    e. Paragraph 2.2.C.2.b,1), Change “1.0 fc” to “0.1 fc.”
2. Section 28 31 11 – Digital, Addressable Fire-Alarm System
    a. Paragraph 2.1.A, Add “Edwards, United Technologies Corp.” as an acceptable manufacturer.

B. DRAWINGS:

1. E100 - Site Plan – Electrical
    a. Revise sheet in its entirety for:
        1) Add Type F9 lighted bollards.
        2) New fixture type and manufacturers.
2. E201 – Ground Floor Plan – Unit A – Lighting
    a. Revise sheet in its entirety for:
        1) Update lighting in Activity Commons – 200 and Activity Commons – 300
        2) Removal of unlabeled fixtures in Boys and Girls rooms.
3. E202 – Ground Floor Plan – Unit B – Lighting
        1) Revise sheet in its entirety for update lighting in Activity Commons – 400 and Activity Commons – 500.
4. E203- Ground Floor Plan – Unit C – Lighting
    a. Revise sheet in its entirety to:
    b. Add Type F18 sconces under main entrance canopy.
    c. Add Lighting Contactor LC-C2 to Main Elec. 826.
    d. Update Plan Notes.
5. E204 – Ground Floor Plan – Unit D – Lighting
    a. Revise sheet in its entirety for:
        1) Update lighting in Activity Commons – 400 and Activity Commons – 500,
        2) Add Type F14 sconces on exterior doors.
6. E211 – Ground Floor Plan – Unit A – Power
    a. Revise sheet in its entirety for new USB receptacle locations.
7. E212 – Ground Floor Plan – Unit B – Power
    a. Revise sheet in its entirety for new USB receptacle locations.
8. E213 - Ground Floor Plan – Unit C – Power
    a. Revise sheet in its entirety for:
        1) New USB receptacle locations.
        2) Remove power for Cafeteria Projector and Screen.
9. E214 – Ground Floor Plan – Unit D – Power
    a. Revise sheet in its entirety for new USB receptacle locations.
10. E302 – Enlarged Plans – A/B Mezzanine Plan

a. Revise sheet in its entirety to add circuit for electric hoist.

11. E403 – Details – Electrical Site
    a. Revise sheet in its entirety to:
        1) Update Lighted Bollard Detail.
        2) Update Exterior Lighting Contactor Detail to add Lighting Contactor LC-C2.
12. E404 – Details – Theatrical Lighting
    a. Revise sheet in its entirety to update Theatrical Riser Diagram.
13. E601 – Schedules – Lighting
    a. Revise sheet in its entirety to update Light Fixture Schedule.
14. E611 – Schedules – Panelboards
    a. Panelboard 2AL1, label circuit 11, “Electric Hoist.”
15. E612 – Schedules – Panelboards
    a. Panelboard 1CL1, label circuit 14, “Exterior Bollards.”
    b. Panelboard 1CL2, label circuits 16 and 18 “Spare.”

PLUMBING

A. SPECIFICATIONS: No Changes.

B. DRAWINGS: No Changes.

FIRE PROTECTION

A. SPECIFICATIONS: No Changes.

B. DRAWINGS: No Changes.

Attachments: Reissued Sheets: M203, M301, M302.1, M303, M303.1, E100, E201, E202, E203, E204, E211, E212, E213, E214, E302, E403, E404, E601

END OF ADDENDUM