CONTRACT DOCUMENTS
FOR
LOS MEDANOS COLLEGE
2700 E. Leland Rd. Pittsburg, CA 94565

L-630 New Brentwood Center

AT

1351 Pioneer Square
Brentwood, California, 94542

CONTRA COSTA COMMUNITY COLLEGE DISTRICT

Consist of the following:

DSA File #7-C1
DSA Application # 01-116287

ADDENDUM #1
Drawings & Specification

Architect: RATCLIFF
5856 Doyle Street Emeryville, CA  94608

April 13, 2018
CONTRA COSTA COMMUNITY COLLEGE DISTRICT

L-630 New Brentwood Center
Los Medanos College
ADDENDUM #1 Date: 4/13/18

NOTICE TO ALL PRE-QUALIFIED CONTRACTORS ONLY

You are hereby notified of the following changes, clarifications and/or modifications to the original Contract Documents, Project Manual, Drawings, Specifications and/or previous Addenda. This Addendum shall supersede the original Contract Documents and previous Addenda wherein it contradicts the same, and shall take precedence over anything to the contrary therein. All other conditions remain unchanged.

This Addendum forms a part of the Contract Documents and modifies the original Contract Documents dated April 3, 2018. Acknowledge receipt of this Addendum in space provided on the Bid Proposal Form. Failure to acknowledge may subject Bidder to disqualification.

A. ADDITIONS, DELETIONS, REVISIONS, REPLACE SPECIFICATIONS, DIV 0 & 1

1. REPLACE: Section 01321 Photographic Documentation.
   Replace Section 01321 Photographic Documentation in its entirety and replace with the attached Section 01321).

B. ADDITIONS, DELETIONS, REVISIONS, REPLACE TECHNICAL SPECIFICATIONS:

1. REPLACE: Section 05 50 00 – Metal Fabrications
   Replace Section 05 50 00 – Metal Fabrications in its entirety and replace with attached Section 05 50 00, revising Article 2.3(D) and Article 2.10(A) as indicated.

2. REPLACE: Section 09 83 00 – Acoustic Finishes
   Replace Section 09 83 00 – Acoustic Finishes in its entirety and replace with attached Section 09 83 00, revising Article 2.1(A)(12), Article 2.1(A)(13), and adding new Article 2.1(A)(14) as indicated.

C. REVISION TO DRAWINGS SHEETS:

All drawing modifications are indicated on the drawings with a cloud graphic and a Delta 1.

1. C-100 - EXISTING CONDITIONS
   (No Changes, just resolution correction for legibility).

2. C-400 – HORIZONTAL LAYOUT
   Clarification of curb types.
3. C-401 – HORIZONTAL LAYOUT
   Clarification of curb types.

4. C-402 – HORIZONTAL LAYOUT
   Clarification of curb types.

5. A-203 – EXTERIOR ELEVATION – BATTENS LAYOUT
   New sheet.

6. A-203A – ENLARGED ELEVATIONS – BATTENS LAYOUT
   New sheet.

7. A-203B – ENLARGED ELEVATIONS – BATTENS LAYOUT
   New sheet.

8. A-203C – ENLARGED ELEVATIONS – BATTENS LAYOUT
   New sheet.

   New sheet.

10. A-203E – ENLARGED ELEVATIONS – BATTENS LAYOUT
    New sheet.

11. A-203F – ENLARGED ELEVATIONS – BATTENS LAYOUT
    New sheet.

    New sheet.

    New sheet.

    New sheet.

    New sheet.

16. S-112 – PARTIAL FOUNDATION PLANS – AREA C
    Addition of upturned beam to span utility trench between Grid Lines 7 and 8.

17. S- 500 – TYPICAL CONCRETE DETAILS
    (No Changes, just resolution correction for legibility).

    (No Changes, just resolution correction for legibility).
19. M-113 – PARTIAL LEVEL 1 MECHANICAL PLAN – AREA 3
   Plan and Sheet Notes revisions.

20. M-114 – PARTIAL LEVEL 1 MECHANICAL PLAN – AREA 4
   Plan and Sheet Notes revisions.

   Plan revisions.

22. M-122 – PARTIAL ROOF MECHANICAL PLAN – AREA 2
   Sheet Notes revisions.

23. M-126 – PARTIAL ROOF MECHANICAL PLAN – AREA 6
   Plan, Plenum, and Sheet Notes revisions.

   Sheet Notes revisions.

25. M-808 – CONTROL DIAGRAMS
   Control Diagram revisions.

26. M-810 – CONTROL DIAGRAMS
   New sheet.

27. M-811 – CONTROL DIAGRAMS
   New sheet.

28. M-812 – CONTROL DIAGRAMS
   New sheet.

29. M-813 – CONTROL DIAGRAMS
   New sheet.

30. E-100 – SITE PLAN - ELECTRICAL
    Correct plan location of golf cart charging receptacles (Sheet Note 9).

31. E-702 – DETAILS
    Detail 2: Revise golf cart charging post detail.

32. P-603 – RECYCLED WATER, LAB VACUUM, AND DEIONIZED WATER DIAGRAMS
    Detail 7: Revise water softener strapping to strap each piece of equipment individually.
D. **PRE-BID RFI's**

1. **Question:** RFI 001: Please post the geotechnical reports to the district site  
   **Response:** Geotechnical reports are now available on District website. 
   [http://www.4cd.edu/webapps/PurchasingViewBids/default.aspx](http://www.4cd.edu/webapps/PurchasingViewBids/default.aspx)

2. **Question:** RFI 002: The existing grades shown on drawing C-100 are not legible. Please increase 
   the clarity of these elevations and reissue the drawing. 
   **Response:** Drawing C-100 with better resolution for legibility is attached in this Addendum 1 
   with no other changes.

3. **Question:** RFI 003: Does the District currently have an on-call contract in place for material 
   testing and special inspection services, or might there be an opportunity to provide an estimate 
   for these services for this project? 
   **Response:** There will be a material testing and special inspection services 
   REQUEST FOR QUALIFICATIONS (RFQ) out sometime later this month and will be post it on District 
   website. [http://www.4cd.edu/webapps/PurchasingViewBids/default.aspx](http://www.4cd.edu/webapps/PurchasingViewBids/default.aspx)

4. **Question:** RFI 004: Per Drawing L-102 & detail 1-L201, the referenced detail indicates pedestrian 
   concrete walkway, however, there is not any reference to the curb type. Please provide details 
   for the curbs. 
   **Response:** Notes on L-102 refer to civil drawings for vehicular paving, striping, curb & gutter. 
   Civil drawings clarifying curb types included in Addendum #1.

5. **Question:** RFI 005: Please verify if the Stabilized Granular Paving under specification 32 15 45, is 
   the area shown as “Permeable Paving” on drawing L-101? If not, please indicate where the 
   Stabilized Granular Paving is located. 
   **Response:** Yes, the area indicated as "Permeable Paving" indicated on Sheet L-101 is the 
   Stabilized Granular Paving covered by Specification Section 32 15 45.

E. **Pre-Bid Meeting Minutes.**

F. **Pre-Bid Meeting Sign in Sheet.**

**Note to Bidders:** Last day for RFIs is April 19, 2018. 
If you have any questions regarding this Addendum, please contact:

   Jovan Esprit  
   Contra Costa Community College District  
   500 Court St., Martinez, CA 94553  
   Email: jesprit@4cd.edu;  
   Facsimile: 925-229-6959
All other terms and conditions of BID are to remain the same.

Mark McFarlin  
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Senior Project Architect - RATCLIFF  
5856 Doyle Street  
Emeryville, CA  94608

END OF ADDENDUM #1
SECTION 01321
PHOTOGRAPHIC DOCUMENTATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS
   A. All Contract Documents shall be reviewed for applicable provisions related to the provisions in
      this document, and provisions in the General Conditions and other Division 1 Specification
      Sections shall apply to this Section without limitation.

1.2 RELATED REQUIREMENTS SPECIFIED IN OTHER SECTIONS
   A. Section 01010 – “Summary of Work”
   B. Section 01140 – “Work Restrictions”
   C. Section 01330 – “Submittal Procedures”
   D. Section 01770 – “Contract Closeout Procedures”
   E. Section 01820 – “Demonstration and Training”
   F. Divisions 2 through 33 sections for Photographic Documentation requirements for the work in
      these sections.

1.3 SUMMARY
   A. This section specifies administrative and procedural requirements for the following:
      1. Preconstruction digital photographs.
      2. Preconstruction video
      3. Time lapse construction web cam system.
      4. Final completion construction digital photographs.

1.4 COSTS OF PHOTOGRAPHY, PRINTING AND WEB CAM SYSTEM
   A. Contractor shall pay all costs for specified photography, prints, and time lapse construction web
      cam system.

1.5 SUBMITTALS
   A. Qualification Data: Contractor shall provide a person with experience for taking digital
      photographs.
   B. Key Plan: Submit key plan of Project site and building with notation of vantage points marked
      for location and direction of each (photograph.)
   C. Construction Photographs: Submit (15) digital photographs each month, and (25) digital
      photographs at the end of Project completion.
      1. Digital Images: Submit a complete set of digital image electronic files, CD/DVD, (with each
         submittal of prints as a Project Record Document). Identify electronic media with date
         photographs were taken. Submit images that have the same aspect ratio as the sensor,
         un-cropped.
D. Time lapse Construction Web Cam Photos and Movie:
   1. Digital Images: At the completion of the Work, submit digital still images exactly as originally recorded in the digital camera, without alteration, manipulation, editing, or modifications using image-editing software.
      a. Date and Time: Include original image file date and time with each image.
      b. Format: Submit a sortable and identifiable archive of all digital still images on an external hard drive. Obtain District approval of file organization and file names.
   2. Time-Lapse "Movie": Compile select digital still images into a time-lapse movie of the construction period for each Phase of the Work. Optimize images included and run-time length of movie to suit District requirements.

PART 2 - PRODUCTS

2.1 PHOTOGRAPHIC MEDIA
   A. Digital Images: Provide images in JPEG format, with minimum sensor size of 10.0 megapixels.

2.2 TIME LAPSE CONSTRUCTION WEB CAM SYSTEM
   A. Provide professional-grade high resolution digital webcam system designed specifically for the construction industry as a turnkey package including 2 cameras, related hardware, mounting equipment, software, wireless cellular data transmission service, website hosting, image hosting, storage, and backup, online interface for the system, time-lapse video creation and technical support.
   B. Contractor shall be solely responsible for properly maintaining all web cam system components and related services throughout the course of the Work.
   C. The outdoor camera system shall include a tamper and impact resistant, discreet unit with fixed camera, lens and controller. It shall also include a fixed pole with a height of 15 to 20 feet for mounting purposes.
   D. Cameras shall be integrated high definition camera and lens assembly consisting of a charge coupled device (CCD) camera with a remotely controlled focal length lens mounted as a permanent module with the following features:
      1. Digital Still Image Resolution: Minimum sensor size of 10 megapixels, and at an image resolution of not less than 3648 x 2736 pixels.
      2. Lens: 78-degree wide field of view.
      4. Data Connection: Operate cameras via built-in cellular data connection provided and maintained by the system vendor.
      5. Provide electrical power for web cam system as required by Contractor’s system vendor. A solar option is acceptable.
7. The cameras shall have the ability to take a high-resolution 10 megapixel digital still images of the construction site approximately every 15 minutes, and upload the still images over a wireless cellular modem to the Contractor’s vendor servers.

E. Remote Access to Digital Images: Provide an online interface system to allow viewing of all high-definition digital still images captured and stored during Construction, from any location with internet access and with password protection.
   1. The online interface system shall be accessible by an unlimited number of human users.
   2. System shall display Project name and Owner Logo.
   4. Zoom: Provide pan and zoom capability for zooming into high definition images.
   5. User Screen Viewing Options.

F. Dynamic Calendar: Provide screen showing calendar in which each day displays an image for that day.

G. Split Screen: Provide screen showing two discrete images side by side, from the two different cameras.

H. Full-Screen: Provide screen maximizing view of images on users monitor.

I. Slideshow: Provide capability to browse through images, moving forward and backward in time by individual image and by day.

J. Contractor shall understand that photographs and archives generated by the camera system become the property of the District and cannot used for advertisement or publicity reasons without the expressed written consent of the District.

PART 3 - EXECUTION

3.1 PHOTOGRAPHS, GENERAL

A. Date Stamps: Unless otherwise indicated, date and time stamp each photograph as it is being taken so stamp is integral to photograph.

3.2 TIME LAPSE CONSTRUCTION WEB CAM

A. Locate cameras at 2 different fixed locations as directed by District in order to capture construction activities over the course of the Work.

B. Coordinate location and installation of web cameras to avoid interference from trees and to prevent sunlight and light from fixtures entering directly into the camera lens.

C. After installation, perform system test to ensure all components are functioning properly.

D. Maintain all system components in good working order. Promptly make any necessary repairs during the course of the Work.

E. Termination and Removal: Completely remove web cam camera system and mounting pole prior to Final Completion.
   1. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with camera system.
2. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.

F. Camera system, including associated appurtenances and mounting equipment, shall become the property of the District

G. Maintain images on the Contractor’s vendor website for reference available at all times during the Work, and for not less than 90 days after Final Completion.

3.3 EXISTING CONDITIONS SURVEY VIDEO

A. Prior to commencement of Work on Site, jointly survey the existing and surrounding areas and structures with the District and Architect. Contractor shall note and recording existing damage such as cracks, sags, and other damage, on Site Plan/Floor Plans as appropriate.

B. This record shall serve as a basis for determination of subsequent damage to these items due to settlement, movement, demolition, or other Contractor operations.

C. Existing damage observed shall be marked and the completed record of existing damage shall be signed by the parties.

D. Cracks, sags, and damage to the area and other items not noted in the original survey but subsequently observed shall be reported immediately to the Architect.

E. Contractor shall comply with requirements of this Section for photographic and/or video recording of existing conditions.

3.4 PRECONSTRUCTION PHOTOGRAPHS

A. Before starting construction, take color digital photographs of Project site and surrounding properties from different vantage points, as directed by and Architect and District.

B. Take photographs as necessary to show existing conditions adjacent to the building, spaces, and property before starting the work.

C. Take necessary photographs of existing buildings either on or adjoining the building, spaces, and property to accurately record the physical conditions prior to the start of construction.

3.5 CONSTRUCTION VIDEOS, GENERAL

A. Recording: Mount camera on tripod before starting recording, unless otherwise necessary to show area of construction for maintenance and operation. Display continuous running time.

END OF SECTION 01321
PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:
   1. Steel framing and supports for countertops.
   2. Steel framing and supports for mechanical and electrical equipment.
   3. Steel framing and supports for applications where framing and supports are not specified in other Sections.
   4. Metal ladders.
   5. Trash Enclosure.
   6. Transformer Enclosure.
   8. Site stair handrails. See Landscape drawings.

B. Related Sections:
   1. Section 03 30 00 "Cast-in-Place Concrete" for installing anchor bolts, steel pipe sleeves, slotted-channel inserts, wedge-type inserts, and other items cast into concrete.
   2. Section 05 12 00 "Structural Steel Framing."
   3. Section 07 46 46 “Large Format Fiber Cement Panels.”
   4. Section 07 62 00 “Sheet Metal Flashing and Trim.”
   5. Section 07 92 00 “Joint Sealants.”
   6. Section 09 91 00 “Painting” for finishing metal fabrications assemblies, unless otherwise noted.
   7. Section 09 96 00 “High Performance Coatings” for finishing metal fabrications assemblies, unless otherwise noted.

1.3 PERFORMANCE REQUIREMENTS

A. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes acting on exterior metal fabrications by preventing buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.
   1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.
1.4 ACTION SUBMITTALS

A. Product Data: For the following:
   1. Paint products.
   2. Grout.

B. LEED Submittals:
   1. For Credit MR 4, submit manufacturer’s product data that delineates % of recycled content by weight. Provide material costs for post-consumer and pre-consumer recycled content. Only include materials permanently installed on the project site.
   2. For Credit MR 5, submit a list of products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site. Include the cost and percentage of each material, by weight. Provide documentation from manufacturer that confirms the address of the place of manufacture and verifies the method of transit. If a product has multiple points of assembly, provide detailed data on location and assembly.
   3. For Credit IEQ 4.1, submit product data for adhesives and sealants used inside the weatherproofing line, indicating VOCs comply with limits found in Section 01 81 13 “LEED Requirements.”
   4. For Credit IEQ 4.2, submit product for paints and coatings used inside the weatherproofing line, indicating VOCs comply with limits found in Section 01 81 13 “LEED Requirements.”

C. Shop Drawings: Show fabrication and installation details for metal fabrications.
   1. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items.

D. Samples: For each finish specified. Minimum 4 in. square.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For qualified professional engineer.

B. Welding certificates.

C. Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers certifying that shop primers are compatible with topcoats.

D. Delegated-Design Submittal: For installed products indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation. Professional Engineer shall be registered in the State of California.
1.6 QUALITY ASSURANCE

A. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."

B. Welding Qualifications: Qualify procedures and personnel according to the following:
   1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."
   2. AWS D1.2/D1.2M, "Structural Welding Code - Aluminum."
   3. AWS D1.6, "Structural Welding Code - Stainless Steel."

1.7 PROJECT CONDITIONS

A. Field Measurements: Verify actual locations of walls and other construction contiguous with metal fabrications by field measurements before fabrication.

1.8 COORDINATION

A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.

B. Coordinate installation of anchorages and steel weld plates and angles for casting into concrete. 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

2.1 LEED REQUIREMENTS

A. MR 4: Provide products that contain recycled content.

B. MR 5: Provide products that are extracted, harvested, recovered, or manufactured within 500 miles of the project site, depending on its method of transportation to the project site.

C. IEQ 4.1: For adhesives and sealants used inside the weatherproofing line and applied on site, provide products with VOCs that comply with limits found in Section 018113 “LEED Requirements.”

D. IEQ 4.2: For paints and coatings applied inside the weatherproofing line and applied on site, provide products with VOCs that comply with limits found in Section 018113 “LEED Requirements.”
2.2 METALS, GENERAL

A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.

2.3 FERROUS METALS

A. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.

B. Z-shapes: ASTM A 36; galvanize per ASTM A 153. Provide z-shapes for Section 07 46 46 “Large Format Fiber Cement Panels.”

C. Slotted Channel Framing: Cold-formed metal box channels (struts) complying with MFMA-4.
   2. Material: Galvanized steel, ASTM A 653/A 653M, commercial steel, Type B structural steel, Grade 33, with G90 coating; 0.108-inch nominal thickness.

D. Perforated, Corrugated Steel Panels:
   1. Basis of Design: Morin “BR7-35 profile”, or equal. Made from .050 in. thick aluminum 18 ga. steel sheets. Finish per Section 09 96 00 “High Performance Coatings.”
      a. Perforation pattern: 1/8 in. by ¼ 7/32 in. staggered centers with 23% 30% open area.

2.4 NONFERROUS METALS


2.5 FASTENERS

A. General: Unless otherwise indicated, provide Type 316 stainless-steel fasteners for exterior use and zinc-plated fasteners with coating complying with ASTM B 633 or ASTM F 1941, Class Fe/Zn 5, at exterior walls. Select fasteners for type, grade, and class required.
   1. Provide stainless-steel fasteners for fastening aluminum.

B. Steel Bolts and Nuts: Regular hexagon-head bolts, ASTM A 307, Grade A; with hex nuts, ASTM A 563; and, where indicated, flat washers.

C. Stainless-Steel Bolts and Nuts: Regular hexagon-head annealed stainless-steel bolts, ASTM F 593; with hex nuts, ASTM F 594; and, where indicated, flat washers; Alloy Group 2.
D. Anchor Bolts: ASTM F 1554, Grade 36, of dimensions indicated; with nuts, ASTM A 563; and, where indicated, flat washers.
   1. Hot-dip galvanize or provide mechanically deposited, zinc coating where item being fastened is indicated to be galvanized.

E. Eyebolts: ASTM A 489.

F. Machine Screws: ASME B18.6.3.


I. 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.

J. Cast-in-Place Anchors in Concrete: Either threaded type or wedge type unless otherwise indicated; galvanized ferrous castings, either ASTM A 47/A 47M malleable iron or ASTM A 27/A 27M cast steel. Provide bolts, washers, and shims as needed, all hot-dip galvanized per ASTM F 2329.

K. Post-Installed Anchors: Torque-controlled expansion anchors.
   1. Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B 633 or ASTM F 1941, Class Fe/Zn 5, unless otherwise indicated.

2.6 MISCELLANEOUS MATERIALS

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

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

C. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D 1187.

D. Nonshrink, Metallic Grout: Factory-packaged, ferrous-aggregate grout complying with ASTM C 1107, specifically recommended by manufacturer for heavy-duty loading applications.

2.7 FABRICATION, GENERAL

A. Shop Assembly: Preassemble items in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Use
connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.

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

C. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.

D. Form exposed work with accurate angles and surfaces and straight edges.

E. Weld corners and seams continuously to comply with the following:
   1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
   2. Obtain fusion without undercut or overlap.
   3. Remove welding flux immediately.
   4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

F. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners or welds where possible. Where exposed fasteners are required, use Phillips flat-head (countersunk) fasteners unless otherwise indicated. Locate joints where least conspicuous.

G. Fabricate seams and other connections that will be exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.

H. Cut, reinforce, drill, and tap metal fabrications as indicated to receive finish hardware, screws, and similar items.

I. Provide for anchorage of type indicated; coordinate with supporting structure. Space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.
   1. Where units are indicated to be cast into concrete or built into masonry, equip with integrally welded steel strap anchors, 1/8 by 1-1/2 inches, with a minimum 6-inch embedment and 2-inch hook, not less than 8 inches from ends and corners of units and 24 inches o.c., unless otherwise indicated.

2.8 MISCELLANEOUS FRAMING AND SUPPORTS

A. General: Provide steel framing and supports not specified in other Sections as needed to complete the Work.

B. Fabricate units from steel shapes, plates, and bars of welded construction unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction.
1. Fabricate units from slotted channel framing where indicated.
2. Furnish inserts for units installed after concrete is placed.

C. Galvanize miscellaneous framing and supports where indicated.

2.9 METAL LADDERS

A. General:
   1. Comply with ANSI A14.3.

B. Aluminum Ladders: O’Keefe’s, Inc., or equal.
   1. Space siderails 18 inches apart unless otherwise indicated.
   2. Siderails: Continuous extruded-aluminum channels or tubes, not less than 2-1/2 inches deep, 3/4 inch wide, and 1/8 inch thick.
   3. Rungs: Extruded-aluminum tubes, not less than 3/4 inch deep and not less than 1/8 inch thick, with ribbed tread surfaces.
   4. Fit rungs in centerline of siderails; fasten by welding or with stainless-steel fasteners or brackets and aluminum rivets.
   5. Support each ladder at top and bottom and not more than 60 inches o.c. with welded or bolted aluminum brackets.

C. Ship’s Ladder at Crossover Stairs: Refer to Architectural Drawings for configuration. Basis of Design is Precision Ladders, or equal. Fabricate of open-type construction with channel or plate stringers and pipe and tube railings unless otherwise indicated. Provide brackets and fittings for installation.
   1. Treads shall be not less than 5 inches exclusive of nosing or less than 8-1/2 inches including the nosing, and riser height shall be not more than 9-1/2 inches.
   2. Fabricate ships’ ladders, including railings from aluminum.
   3. Fabricate treads from pressure-locked aluminum bar grating. Limit openings in gratings to no more than 1/2 inch in least dimension.
   4. Railings shall be standard per manufacturer, and shall be minimum 1 in. diameter.

2.10 ENCLOSURES AND SCREENS

A. Assembly: Basis of Design is Morin BR7-35, Aluminum Steel .040 18 ga., 1/8 in. diameter holes by 7/32 in. spacing. 30% open area. Backup systems are as shown on Drawings. Finish screens and enclosures per Section 09 96 00 “High Performance Coatings.”

B. Locations:
   1. Trash Enclosure.
   2. Transformer Enclosure.
   3. Rooftop Mechanical Equipment Screen.
2.11 FINISHES, GENERAL

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

B. Finish metal fabrications after assembly.

C. Finish exposed surfaces to remove tool and die marks and stretch lines, and to blend into surrounding surface.

2.12 STEEL AND IRON FINISHES

A. Galvanizing: Hot-dip galvanize items as indicated to comply with ASTM A 153/A 153M for steel and iron hardware and with ASTM A 123/A 123M for other steel and iron products. Galvanize all exterior steel assemblies, unless otherwise noted.
   1. Do not quench or apply post galvanizing treatments that might interfere with paint adhesion.

B. Shop prime iron and steel items not indicated to be galvanized unless they are to be embedded in concrete, sprayed-on fireproofing, or masonry, or unless otherwise indicated.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.

B. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.

C. Field Welding: Comply with the following requirements:
   1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
   2. Obtain fusion without undercut or overlap.
   3. Remove welding flux immediately.
   4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.
D. Fastening to In-Place Construction: Provide anchorage devices and fasteners where metal fabrications are required to be fastened to in-place construction. Provide threaded fasteners for use with concrete and masonry inserts, toggle bolts, through bolts, lag screws, wood screws, and other connectors.

E. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.

F. Corrosion Protection: Coat concealed surfaces of aluminum that will come into contact with grout, concrete, masonry, wood, or dissimilar metals with the following:

3.2 INSTALLING MISCELLANEOUS FRAMING AND SUPPORTS

A. General: Install framing and supports to comply with requirements of items being supported, including manufacturers' written instructions and requirements indicated on Shop Drawings.

B. Anchor supports for operable partitions securely to and rigidly brace from building structure.

3.3 ADJUSTING AND CLEANING

A. Touchup Painting: Cleaning and touchup painting of field welds, bolted connections, and abraded areas of shop paint are specified in Section 099100 “Painting”.

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

END OF SECTION
PART 1 - GENERAL

1.1 SUMMARY

A. Work Included: Acoustic Finishes, complete, as shown and specified. Section includes the following:
   1. Tack-able Acoustical Fabric-Covered Wall Panels

B. Work Specified Elsewhere:
   1. Backing Plates: Section 092116.

1.2 REFERENCES

A. General: Comply with the applicable provisions of the referenced standards except as modified by governing codes and the Contract Documents. Where a recommendation occurs in the referenced standards, it shall be considered mandatory. In the event of conflict, the more stringent standard or requirement shall govern.

   1. American Society for Testing and Materials (ASTM)
      a. ASTM E84 “Surface Burning Characteristics of Building Materials”.

1.3 SYSTEM DESCRIPTION

A. Performance Criteria:

   1. Acoustical: Provide acoustical wall treatment system with noise reduction coefficient of not less than .80.

1.4 SUBMITTALS

A. Product Data: Submit for Architect’s action. Submit manufacturer’s literature and installation instructions for each material and accessory, clearly notating specified requirements.

B. LEED Submittals:

   1. For Credit MR 4, submit manufacturer’s product data that delineates % of recycled content by weight. Provide material costs for post-consumer and pre-consumer recycled content. Only include materials permanently installed on the project site.

   2. For Credit MR 5, submit a list of products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site. Include the cost and percentage of each material, by weight. Provide documentation from manufacturer that confirms the address of
the place of manufacture and verifies the method of transit. If a product has multiple points of assembly, provide detailed data on location and assembly.

3. For Credit IEQ 4.1, submit product data for adhesives and sealants used inside the weatherproofing line, indicating VOCs comply with limits found in Section 01 81 13 “LEED Requirements.”

C. Shop Drawings: Submit for Architect’s action. Submit shop drawings for the installation of the Work. On elevation, show fabric direction, panel seams, cutouts, and other details as necessary to clearly indicate arrangement of panels and materials. In details, show method of attachment to wall.

D. Samples: Submit for Architect’s action. Furnish sufficient samples to establish full range of colors and textures for materials exposed in the finished Work. Label samples to indicate product and location in the Work. Samples will be reviewed for appearance only. Compliance with other requirements is the responsibility of the Contractor.

1. Fabric: 12 in. square of each specified type.

E. Quality Assurance/Quality Control Submittals: Submit for Architect’s information.

1. Certificates:
   a. Document Review: Submit a written statement signed by the Contractor and the Applicator stating that the Contract Documents, shop drawings and product data have been reviewed with qualified manufacturer representatives. The statement shall certify that selected materials are proper, compatible with contiguous materials and adequate for the application shown.
   b. Installer’s Qualifications.

F. Closeout Submittals: Submit for Owner’s documentation.


1.5 PRODUCT HANDLING

A. Take measures as required to ensure materials are not damaged or deformed. Store products in flat position in properly ventilated, dry space. Use suitable means to prevent materials from lying in direct contact with the ground.

1.6 PROJECT CONDITIONS

A. Environmental Requirements: Store materials for 1 day prior to installation in area of installation to achieve temperature stability.
PART 2 - PRODUCTS

2.1 ACOUSTICAL WALL PANELS

A. Basis of Design: Unika Vaev Ecoustic Panel 25mm.

1. Composition: 100% PET (>50% Recycled PET)
2. Thickness: 0.98 in.
3. Density: 0.66 lb/ft³
4. Weight: 19.2 lbs.
5. Dimensions: 3’ – 11" x 8’ – 11" nominally
6. Light Fastness: .6 ISO 105-B02
7. Fire Ratings:
   a. ASTM E 84: Class A
   b. AS/ISO 9705
   c. BCA Group 1
8. Acoustic NRC AS/ISO 354: Direct Fix is 0.80
11. On-site trimming to square each individual panel is required. Variation in thickness, fiber nix and color, as well as flecks and other slight blemishes, are an inherent feature of this products and are unavoidable.
12. Customization: Nominal 4’ by 9’ by 1” panels are to be multi-color (unless otherwise noted), to meet the following description:
   a. 20% 25% Natural
   b. 20% 25% Oatmeal
   c. 20% 25% Light Grey
   d. 20% Pewter 25% Opal
   e. 20% Taupe
13. Customization: Nominal 4’ x 9’ x 1” panels are to be multi-geometric and factory-cut to match Drawings.
   a. 16% Trapezoid, Size 1
   b. 16% Trapezoid, Size 2
   c. 17% Triangle, Size 1
   d. 17% Triangle, Size 2
   e. 17% Rectangle, Size 1
   f. 17% Rectangle, Size 2
14. Trim Moldings: Manufacturer's Standard edging profile; size to match panel thickness.

PART 3 - EXECUTION

3.1 GENERAL

A. Manufacturer's Instructions: Prepare substrates and install the work, including components and accessories, in accordance with the manufacturer's instructions, except where more stringent requirements are shown or specified. Examine the areas to receive the Work and remedy detrimental conditions.
B. General: Install Work plumb, level, aligned, and secured to substrates per manufacturer's recommendations.

C. Prefabricated Fabric Wrapped Panels:
   1. General: Install panels accurately in required locations plumb, level, aligned, and flush with uniform joints and with matching patterns, textures, and colors in adjacent panels.
   2. Attachment: Secure panels firmly to substrate to comply with manufacturer's instructions.
   3. Fitting: Fit panels around electrical outlets, thermostats, and other items with a uniform clearance of not more than 1/4-inch.
   4. Scheduling: Schedule installation of panel system as late as possible in construction schedule so as to reduce incidence of damage during construction.
   5. Completion: On completion of installation, clean soiled panel surfaces and remove debris from work. Provide suitable protection to ensure that panels shall be clean and free of defects at substantial completion.

3.2 CLEANING

A. General: On completion of installation, clean soiled surfaces and remove debris. Provide suitable protection to maintain Work of this Section clean and free of defects at Substantial Completion.

END OF SECTION
ENLARGED NORTH ELEVATION - CLASSROOMS - BATTENS LAYOUT

ENLARGED NORTH ELEVATION - CLASSROOMS - BATTENS LAYOUT CONTINUED

LEGEND

1. CONCRETE
2. CONCRETE
3. FLOOR AND WALL
4. HORIZONTAL BATTENS
5. VERTICAL BATTENS
6. WATER TIGHT JOINTS BETWEEN THE LONG WALLS
7. REINFORCED BONDED FINISHING SYSTEM
8. PEEL AND STICK RAIN
9. FULL DRY PANEL
10. FULL COMB PANEL
11. MREATED PANEL

GENERAL NOTES

- ENLARGED ELEVATIONS - BATTENS LAYOUT
- LOS MEDANOS COLLEGE
- L-630 NEW BRENTWOOD CENTER
- Sheet A-203A
MEETING MINUTES
PRE-BID MEETING & SITE WALK (MANDATORY)

PROJECT NUMBER/NAME: L-630 New Brentwood Center
CAMPUS: Los Medanos College at 2700 E Leland Rd, Pittsburg, CA 94565

DATE: April 9, 2018
TIME: 1:00 PM
LOCATION: Los Medanos College - CC3-361

Important Note: An on-site job walk follows the meeting. Attendance at the job walk for this project is mandatory. At completion of the job walk, be sure to obtain a Certification of Site Visit (Section 00450), signed by the District. This signed form must be submitted with your bid.

1. Introductions
   A. Sign in Sheet
   B. Introductions
   C. RATCLIFF – Project Presentation

2. Project Team Members

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ray Pyle</td>
<td>Chief Facilities Planner – Contra Costa Community College District (CCCCCD)</td>
</tr>
<tr>
<td>Ines Zildzic</td>
<td>Associate Chief Facilities Planner – CCCCCD</td>
</tr>
<tr>
<td>Ben Azarnoush</td>
<td>Design Director – CCCCCD</td>
</tr>
<tr>
<td>Jovan Esprit</td>
<td>Contracts Manager – CCCCCD</td>
</tr>
<tr>
<td>Ed Carney</td>
<td>Director of Police Safety &amp; Emergency Services – CCCCCD</td>
</tr>
<tr>
<td>Alex Porter</td>
<td>Vice President, Business and Administrative Services - LMC</td>
</tr>
<tr>
<td>Kevin Horan</td>
<td>Vice President of Instruction and Student Services - LMC</td>
</tr>
<tr>
<td>Russ Holt</td>
<td>Buildings and Grounds (B&amp;G) Manager- LMC</td>
</tr>
<tr>
<td>Kevin Little</td>
<td>Sr. Project Manager - Critical Solutions, Inc. (CSI)</td>
</tr>
<tr>
<td>Joe Stam</td>
<td>Construction Manager - Critical Solutions, Inc. (CSI)</td>
</tr>
<tr>
<td>Bill Blessing</td>
<td>Principal in Charge - RATCLIFF</td>
</tr>
<tr>
<td>Patricia Alarcón</td>
<td>Associate Principal- RATCLIFF</td>
</tr>
<tr>
<td>Mark McFarlin</td>
<td>Senior Project Architect - RATCLIFF</td>
</tr>
</tbody>
</table>

3. Bid Set Documents
   A. Bid documents can be viewed at the District’s website
      http://www.4cd.edu/webapps/PurchasingViewBids/default.aspx The site keeps track of your e mail, so any subsequent addendums, are sent to all stored e mails.

   B. The list of pre-qualified General Contractors is on the District’s website.
4. **Brief Project Description**
   In general, the Work consists of the construction of one-story, 54,973 GSF, fully sprinklered educational and administration facility. The building is designed as four wings—laboratory, Classroom, Administration and Student Commons and Classrooms. Site work includes surface parking and landscaping, bio retention areas, landscaped courtyards and paths and a fire access lane.

5. **General Information and Key Days**
   A. This is a PSA (Project Stabilization Agreement) project.

   B. DIR Registration - All bidders and listed subcontractors must be registered prior to submitting a bid (Labor Code Section 1725.5)

   C. Pre-approved bidders may also invite their main subcontractors, (M.E.P) to this meeting.

   D. Bid submittal documents must be completed properly. 10% Bid bonds are required. **NOTE: Section 400 does not need to be submitted since the General Contractors have been pre-qualified.**

   E. Project Duration:
      - Substantial Completion Time: 654 Calendar Days from the Notice to Proceed.
      - Final Completion 62 Calendar Days from Substantial Completion.

   F. Timeline (calendar days):
      a. Bid Opening – Thursday, May 3, 2018 prior to 2:00 PM
      b. Estimated NTP – Monday, June 11, 2018

6. **Liquidated Damages**
   - Liquidated Damages, Substantial Completion $5,000/ per calendar day Work is delayed
   - Liquidated Damages, Final Completion: $1,000 / per calendar day remaining Work is delayed.

7. **Bid Phase Communications & Correspondence**
   All questions related to this Project must be in writing and directed to:
   **Jovan Esprit, Contracts Manager**
   Contra Costa Community College District
   500 Court St., Martinez, CA 94553
   Email: jesprit@4cd.edu

8. **Addenda Update**
   1st Addenda scheduled for issuance on April 13, 2018.
9. Bid Phase Schedule Milestones
   Last day for pre-Bid RFI: Thursday, April 19, 2018
   Last Addendum Issued: Thursday, April 26, 2018
   Bid Opening: Thursday, May 3, 2018, prior to 2:00 PM

10. Bid Opening
   • Bids must be received at the Contra Costa Community College District Office at 500 Court St, Martinez, CA by Thursday, May 3, 2018, prior to 2:00 PM
      All bids will be time stamped at the reception counter in the building lobby.
      Any bid received after the bid opening time will be rejected.
      An announcement will be made at the 2-minute mark prior to the bid opening deadline.

   • Bid Package
      Review your bid package carefully before submitting it. Be sure to include all required documentation.

11. Site Job Walk
   ** PLEASE NOTE: Immediately following the Pre-Bid meeting at Los Medanos College, a Site Visit will follow at the PROJECT LOCATION in Brentwood.
      All potential bidders shall meet at the Brentwood Campus, 1351 Pioneer Square, Brentwood, CA 94542.

12. Distribute signed Certificate of Site Visit forms.
# PRE-BID MEETING SIGN-IN SHEET

**PROJECT TITLE:** L-630 New Brentwood Center  
**DATE / TIME:** April 9, 2018 at 1:00PM  
**LOCATION:** Los Medanos College

<table>
<thead>
<tr>
<th>COMPANY NAME</th>
<th>NAME</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peterson Mechanical</td>
<td>Scott Fenley</td>
<td>Estimator 1m</td>
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<tr>
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<td></td>
<td>Cell Phone</td>
<td>707-721-4571</td>
</tr>
<tr>
<td></td>
<td>Email Address</td>
<td>Scott@Peterson Mechanical.com</td>
</tr>
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</table>

| CSI                              | Joe Staim    | CM          |

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<thead>
<tr>
<th>Please provide business card</th>
<th>Office Phone</th>
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<tr>
<td></td>
<td>Email Address</td>
<td><a href="mailto:Joe@CSIpm.com">Joe@CSIpm.com</a></td>
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</tbody>
</table>

| OVERAA CONSTRUCTION           | Ed Hege     | GC          |

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<tr>
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<tbody>
<tr>
<td></td>
<td>Cell Phone</td>
<td>510-719-0233</td>
</tr>
<tr>
<td></td>
<td>Email Address</td>
<td><a href="mailto:BIDS@OVERAA.COM">BIDS@OVERAA.COM</a></td>
</tr>
</tbody>
</table>

| -                                                | (408) 800-5800 |
| Please provide business card                     | (408) 398-5423 |
| Cell Phone                                       | anthony-holbrook@csi.com |

Page 1 of 3
### PRE-BID MEETING
#### SIGN-IN SHEET

**PROJECT TITLE:** L-630 New Brentwood Center

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<tr>
<th>COMPANY NAME</th>
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<tbody>
<tr>
<td>Bay City Boiler</td>
<td>Kyle Hurst</td>
<td></td>
</tr>
<tr>
<td>Please provide business card</td>
<td>Office Phone</td>
<td>516-386-3711</td>
</tr>
<tr>
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<td>Cell Phone</td>
<td>916-850-9611</td>
</tr>
<tr>
<td></td>
<td>Email Address</td>
<td><a href="mailto:kyle@baycityboiler.com">kyle@baycityboiler.com</a></td>
</tr>
</tbody>
</table>

| Please provide business card | Office Phone          | 925 754 2730 |
| Cell Phone                   | 925 584-4922 Eric Johnson |
| Email Address                | cody@fertadoheatandair.com |
|                             | cody’s cell (925) 584 8058 |

| Lathrop Construction        |                      |       |
| Please provide business card | Office Phone          | 707-746-8000 |
| Cell Phone                   | 707-458-6663          |
| Email Address                | lathropconstruction.com |

| S.J. Amoroso Const.         | Jim Benson & Travis Matheson |       |
| Please provide business card | Office Phone          | 650-654-1900 |
| Cell Phone                   | 650-544-4653          |
| Email Address                | JBenson@SSJAmoroso.com |
# Pre-Bid Meeting Sign-In Sheet

**Project Title:** L-630 New Brentwood Center  
**Date / Time:** April 9, 2018 at 1:00PM  
**Location:** Los Medanos College

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<tr>
<th>Company Name</th>
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<tbody>
<tr>
<td>Balfour Beatty</td>
<td>Dave Bock</td>
<td>Sr. PM</td>
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<tr>
<td>Please provide business card</td>
<td>Office Phone</td>
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<td>Email Address</td>
<td><a href="mailto:DBock@BalfourBeatty.US.COM">DBock@BalfourBeatty.US.COM</a></td>
</tr>
<tr>
<td>Balfour Beatty</td>
<td>Dave Christensen</td>
<td>VP</td>
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<tr>
<td></td>
<td>Email Address</td>
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