



**Board of County
Commissioners**
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President
Tina Skeldon Wozniak
Carol Contrada

Office of Support Services
Kelly Roberts
Director
Lynn DiPierro
Manager

Addendum #1 - Issued September 21, 2012

Regarding Bids for **Pre-Engineered Metal Building System (ITB 12-026P)** for Lucas County Engineer Road Maintenance, bid opening scheduled for October 4, 2012.

This document becomes a fully incorporated part of the specifications, and this letter constitutes legal notice of this requirement.

The entire original Bid Packet including this addendum must be submitted prior to the Bid Opening Date and Time.

Please see attached documentation:

- 12-026P - Addendum 01 - Questions & Answers
- 12-026P - Addendum 01 - Specifications.pdf
- 12-026P - Addendum 01 - Drawings.pdf
- 12-026P - Addendum 01 - Spec & Dwg Write-up.pdf



ADDENDUM NO. 01

Lucas County Road Maintenance Building
Bid Package #12-026P – Pre-Engineered Metal Building System
Dated 9/20/2012

Bidders on the above bid package shall note and respond to the following:

1. Pre-Engineered Metal Building System:

- a) Question: Is the Pre-Engineered Metal Building System Bidder responsible to include the Roof Curbs, Roof Hatches and Preformed Flashing Sleeves?

Answer: Yes, The Pre-Engineered Metal Building System Bidder is responsible to furnish and install all required roof curbs, Roof Hatches and Preformed Flashing Sleeves.

- b) Question: The Wash Bay Room interior walls show a 1" Prefinished Metal Liner Panel. Is this scope of work to be considered part of this bid package?

Answer: Yes, The Pre-Engineered Metal Building System Bidder is to furnish and install the required 1" Prefinished metal liner panel (Wash Bay Only).

- c) Question: The Pre-Engineered Metal Building System Scope of work references Insulation. Please clarify what insulation is to be included in this package?

Answer: The Pre-Engineered Metal Building System Bidder is to furnish and install all Fiberglass Insulation above the CMU walls (Walls and Roof).

- d) Question: Confirm who is responsible for furnishing the Louvers.

Answer: The Pre-Engineered Metal Building System Subcontractor is responsible to furnish and install all exterior Louvers located in the Siding. The Pre-Engineered Metal Building System Subcontractor is responsible to furnish the exterior Louvers located in the Masonry and turn these Louvers over to the Mason for installation.

- e) Question: Is it acceptable to furnish a bid on this project using USA (United Structures of America Incorporated) as the manufacturer of the Pre-Engineered Metal Building System?

Answer: Yes, this is acceptable.

- f) Question: Could you please clarify if this is a bid for materials only and or is Bid Item 1.1 just for material? If it is just for material will Performance Bond be required?

Answer: This bid is to furnish and install all scope items listed in this bid package. We are not accepting Material Only Proposals. Currently we are not requesting a Payment and Performance Bond.

- g) Question: I have looked at your specification package and the plans within them and haven't found any electrical or mechanical drawings or specifications. Are these to be done by another contract?

Answer: Yes, The electrical and mechanical packages will bid later. This package is only for the Pre-Engineered Metal Building System.

- h) Question: I do not see any specifications for doors, windows, toilet partitions, toilet accessores, lockers, masonry, concrete, sitework and landscaping, etc. Are these going to be issued?

Answer: Yes, but as separate bid packages. This package is only for the Pre-Engineered Metal Building System the balance of the scopes of work will be coming out in future packages.

2. Due Date:

- a) No change to the Original Bid Package Due Date

3. Attachments Included in Addendum:

- a) "12-026P – Addendum 01 – Specifications.pdf"
- b) "12-026P – Addendum 01 – Drawings.pdf"
- c) "12-026P – Addendum 01 – Spec & Dwg Write-up.pdf"

All other terms and conditions of to the original bid package remain in effect. Please sign and submit this addendum with the Pricing Sheet on the Bid Package Due Date.

ACCEPTED BY:

Name of Contractor:

By (Signature):

Date:

SECTION 089119 - FIXED LOUVERS

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. Fixed, extruded-aluminum louvers.

- B. Related Requirements:

- 1. Section 081113 "Hollow Metal Doors and Frames" for louvers in hollow-metal doors.
 - 2. Section 081416 "Flush Wood Doors" for louvers in flush wood doors.
 - 3. Section 099113 "Exterior Painting" for field painting louvers.

1.3 DEFINITIONS

- A. Louver Terminology: Definitions of terms for metal louvers contained in AMCA 501 apply to this Section unless otherwise defined in this Section or in referenced standards.
- B. Horizontal Louver: Louver with horizontal blades (i.e., the axes of the blades are horizontal).
- C. Vertical Louver: Louver with vertical blades (i.e., the axes of the blades are vertical).
- D. Drainable-Blade Louver: Louver with blades having gutters that collect water and drain it to channels in jambs and mullions, which carry it to bottom of unit and away from opening.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.

- 1. For louvers specified to bear AMCA seal, include printed catalog pages showing specified models with appropriate AMCA Certified Ratings Seals.

- B. Shop Drawings: For louvers and accessories. Include plans, elevations, sections, details, and attachments to other work. Show frame profiles and blade profiles, angles, and spacing.

- 1. Show weep paths, gaskets, flashing, sealant, and other means of preventing water intrusion.
 - 2. Show mullion profiles and locations.

- C. Samples: For each type of metal finish required.

- D. Delegated-Design Submittal: For louvers indicated to comply with structural performance requirements, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.5 INFORMATIONAL SUBMITTALS

- A. Product Test Reports: Based on evaluation of comprehensive tests performed according to AMCA 500-L by a qualified testing agency or by manufacturer and witnessed by a qualified testing agency, for each type of louver and showing compliance with performance requirements specified.

1.6 QUALITY ASSURANCE

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

1.7 FIELD CONDITIONS

- A. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations: Obtain louvers from single source from a single manufacturer where indicated to be of same type, design, or factory-applied color finish.

2.2 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Design louvers, including comprehensive engineering analysis by a qualified professional engineer, using structural performance requirements and design criteria indicated.
- B. Structural Performance: Louvers shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated without permanent deformation of louver components, noise or metal fatigue caused by louver-blade rattle or flutter, or permanent damage to fasteners and anchors. Wind pressures shall be considered to act normal to the face of the building.
 - 1. Wind Loads: Determine loads based on pressures indicated below:
 - a. Corner Zone: Within 12-feet of building corners, uniform pressure of 20.4 lbf/sq. ft. (977 Pa), acting inward, and 20.4 lbf/sq. ft. (977 Pa), acting outward.
 - b. Other Than Corner Zone: Uniform pressure of 16.8 lbf/sq. ft. (804 Pa), acting inward, and 16.8 lbf/sq. ft. (804 Pa), acting outward.
- C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.
 - 1. Temperature Change (Range): 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.

- D. SMACNA Standard: Comply with recommendations in SMACNA's "Architectural Sheet Metal Manual" for fabrication, construction details, and installation procedures.
- E. Free Area and Pressure Drop: Provide louvers that exceed a minimum free area of 55% and do not exceed the maximum pressure drop of each type as listed in manufacturer's current data.

2.3 FIXED, EXTRUDED-ALUMINUM LOUVERS

A. Horizontal, Drainable-Blade Louver:

- 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Air Balance Inc.; a Mestek company.
 - b. Air Flow Company, Inc.
 - c. Airolite Company, LLC (The).
 - d. American Warming and Ventilating; a Mestek company.
 - e. Greenheck Fan Corporation.
- 2. Louver Depth: 6 inches (150 mm).
- 3. Frame and Blade Nominal Thickness: Not less than 0.080 inch (2.03 mm).
- 4. Mullion Type: Exposed.
- 5. AMCA Seal: Mark units with AMCA Certified Ratings Seal.

2.4 LOUVER SCREENS

A. General: Provide screen at each exterior louver.

- 1. Screen Location for Fixed Louvers: Interior face.
- 2. Screening Type: Bird screening.

B. Secure screen frames to louver frames with stainless-steel machine screws, spaced a maximum of 6 inches (150 mm) from each corner and at 12 inches (300 mm) o.c.

C. Louver Screen Frames: Fabricate with mitered corners to louver sizes indicated.

- 1. Metal: Same type and form of metal as indicated for louver to which screens are attached. Reinforce extruded-aluminum screen frames at corners with clips.
- 2. Finish: Same finish as louver frames to which louver screens are attached.
- 3. Type: Rewirable frames with a driven spline or insert.

D. Louver Screening for Aluminum Louvers:

- 1. Bird Screening: Aluminum, 1/2-inch- (13-mm-) square mesh, 0.063-inch (1.60-mm) wire.

2.5 BLANK-OFF PANELS

A. Insulated, Blank-Off Panels: Laminated panels consisting of an insulating core surfaced on back and front with metal sheets and attached to back of louver.

- 1. Thickness: 2 inches (50 mm).
- 2. Metal Facing Sheets: Aluminum sheet, not less than 0.032-inch (0.81-mm) nominal thickness.

3. Insulating Core: Rigid, glass-fiber-board insulation or extruded-polystyrene foam.
4. Edge Treatment: Trim perimeter edges of blank-off panels with louver manufacturer's standard extruded-aluminum-channel frames, not less than **0.080-inch (2.03-mm)** nominal thickness, with corners mitered and with same finish as panels.
5. Seal perimeter joints between panel faces and louver frames with gaskets or sealant.
6. Panel Finish: Same finish applied to louvers.
7. Attach blank-off panels with sheet metal screws.

2.6 MATERIALS

- A. Aluminum Extrusions: **ASTM B 221 (ASTM B 221M)**, Alloy 6063-T5, T-52, or T6.
- B. Aluminum Sheet: **ASTM B 209 (ASTM B 209M)**, Alloy 3003 or 5005 with temper as required for forming, or as otherwise recommended by metal producer for required finish.
- C. Fasteners: Use types and sizes to suit unit installation conditions.
 1. Use hex-head or Phillips pan-head screws for exposed fasteners unless otherwise indicated.
 2. For fastening aluminum, use aluminum or 300 series stainless-steel fasteners.
 3. For color-finished louvers, use fasteners with heads that match color of louvers.
- D. Post-installed Fasteners for Concrete and Masonry: Torque-controlled expansion anchors, made from stainless-steel components, with capability to sustain, without failure, a load equal to 4 times the loads imposed, for concrete, or 6 times the load imposed for masonry, as determined by testing according to ASTM E 488, conducted by a qualified independent testing agency.
- E. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D 1187.

2.7 FABRICATION

- A. Factory assemble louvers to minimize field splicing and assembly. Disassemble units as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation.
- B. Vertical Assemblies: Where height of louver units exceeds fabrication and handling limitations, fabricate units to permit field-bolted assembly with close-fitting joints in jambs and mullions, reinforced with splice plates.
 1. Continuous Vertical Assemblies: Fabricate units without interrupting blade-spacing pattern unless horizontal mullions are indicated.
 2. Horizontal Mullions: Provide horizontal mullions at joints unless continuous vertical assemblies are indicated.
- C. Maintain equal louver blade spacing, including separation between blades and frames at head and sill, to produce uniform appearance.
- D. Fabricate frames, including integral sills, to fit in openings of sizes indicated, with allowances made for fabrication and installation tolerances, adjoining material tolerances, and perimeter sealant joints.
 1. Frame Type: Channel unless otherwise indicated.
- E. Include supports, anchorages, and accessories required for complete assembly.

- F. Provide vertical mullions of type and at spacings indicated, but not more than is recommended by manufacturer, or 72 inches (1830 mm) o.c., whichever is less.
 - 1. Fully Recessed Mullions: Where indicated, provide mullions fully recessed behind louver blades. Where length of louver exceeds fabrication and handling limitations, fabricate with close-fitting blade splices designed to permit expansion and contraction.
 - 2. Semirecessed Mullions: Where indicated, provide mullions partly recessed behind louver blades so louver blades appear continuous. Where length of louver exceeds fabrication and handling limitations, fabricate with interlocking split mullions and close-fitting blade splices designed to permit expansion and contraction.
 - 3. Exposed Mullions: Where indicated, provide units with exposed mullions of same width and depth as louver frame. Where length of louver exceeds fabrication and handling limitations, provide interlocking split mullions designed to permit expansion and contraction.
 - 4. Exterior Corners: Prefabricated corner units with mitered and welded blades and with semirecessed mullions at corners.
- G. Provide subsills made of same material as louvers or extended sills for recessed louvers.
- H. Join frame members to each other and to fixed louver blades with fillet welds concealed from view unless otherwise indicated or size of louver assembly makes bolted connections between frame members necessary.

2.8 ALUMINUM FINISHES

- A. Finish louvers after assembly.
- B. High-Performance Organic Finish: Two-coat fluoropolymer finish complying with AAMA 2604 and containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
 - 1. Color and Gloss: As selected by Architect from manufacturer's full range.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and openings, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Coordinate setting drawings, diagrams, templates, instructions, and directions for installation of anchorages that are to be embedded in concrete or masonry construction. Coordinate delivery of such items to Project site.

3.3 INSTALLATION

- A. Locate and place louvers level, plumb, and at indicated alignment with adjacent work.

- B. Use concealed anchorages where possible. Provide brass or lead washers fitted to screws where required to protect metal surfaces and to make a weathertight connection.
- C. Form closely fitted joints with exposed connections accurately located and secured.
- D. Provide perimeter reveals and openings of uniform width for sealants and joint fillers, as indicated.
- E. Protect unpainted galvanized and nonferrous-metal surfaces that are in contact with concrete, masonry, or dissimilar metals from corrosion and galvanic action by applying a heavy coating of bituminous paint or by separating surfaces with waterproof gaskets or nonmetallic flashing.
- F. Install concealed gaskets, flashings, joint fillers, and insulation as louver installation progresses, where weathertight louver joints are required. Comply with Section 079200 "Joint Sealants" for sealants applied during louver installation.

3.4 ADJUSTING AND CLEANING

- A. Clean exposed louver surfaces that are not protected by temporary covering, to remove fingerprints and soil during construction period. Do not let soil accumulate during construction period.
- B. Before final inspection, clean exposed surfaces with water and a mild soap or detergent not harmful to finishes. Thoroughly rinse surfaces and dry.
- C. Restore louvers damaged during installation and construction so no evidence remains of corrective work. If results of restoration are unsuccessful, as determined by Architect, remove damaged units and replace with new units.
 - 1. Touch up minor abrasions in finishes with air-dried coating that matches color and gloss of, and is compatible with, factory-applied finish coating.

END OF SECTION 089119

C-102 Received 9/20/2012

PROJECT TITLE
**Lucas County Road
 Maintenance
 Building**
 1049 S. McCord Rd.
 Holland, Ohio
 Prepared for the
 Lucas Co. Board of
 Commissioners

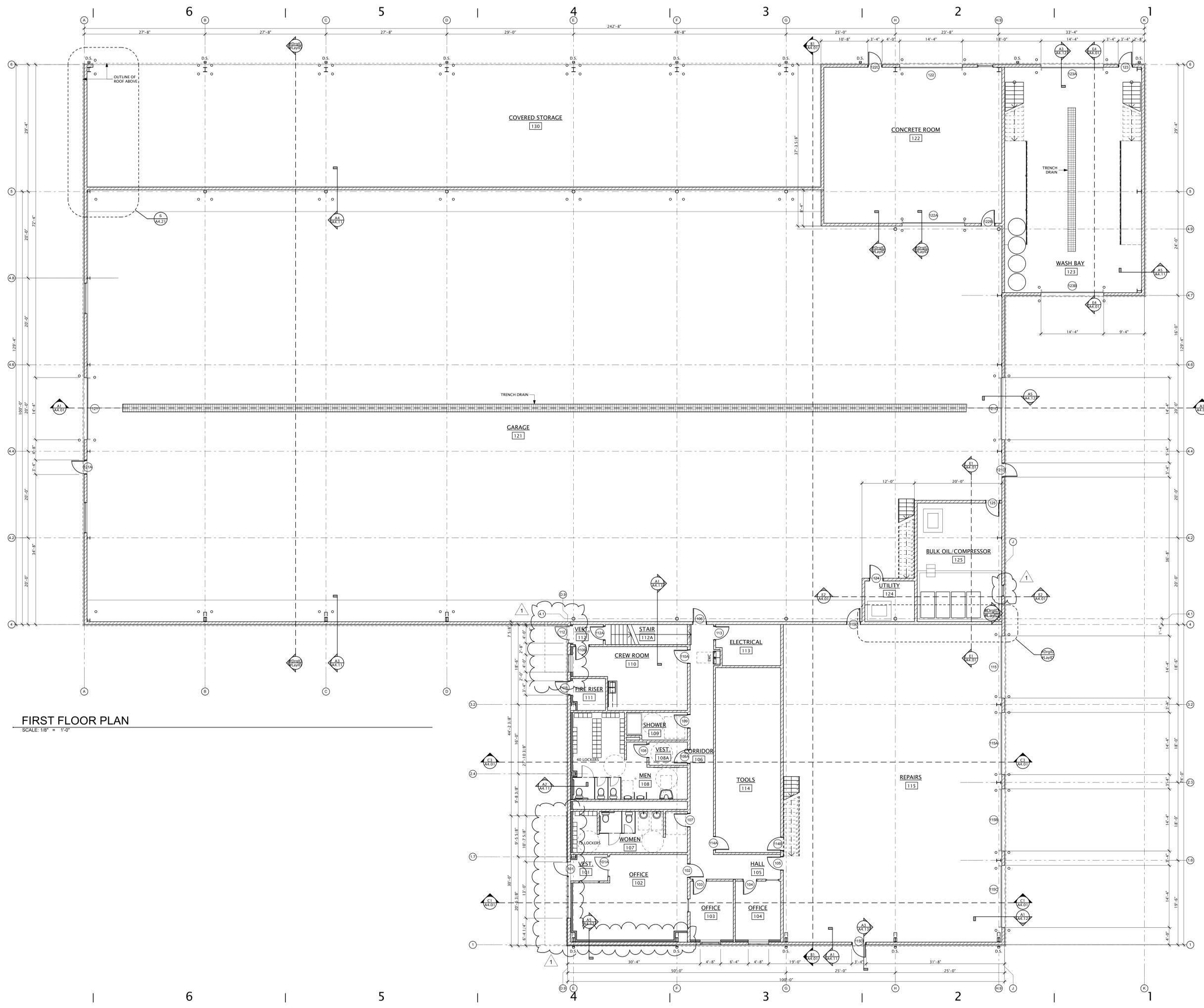
09.20.2012	ADD - 001
08.10.2012	BIDDING - BP 001
05.03.2012	SITE PLAN REVIEW
BID PACKAGE:	
PRE-ENGINEERED METAL BUILDING SYSTEM	

CHECKED CV
 APPROVED AB

TCI JOB NO. 106049

SHEET TITLE
First Floor Plan

SHEET NO.
A1.01



FIRST FLOOR PLAN
 SCALE: 1/8" = 1'-0"

E
D
C
B
A

09/20/2012

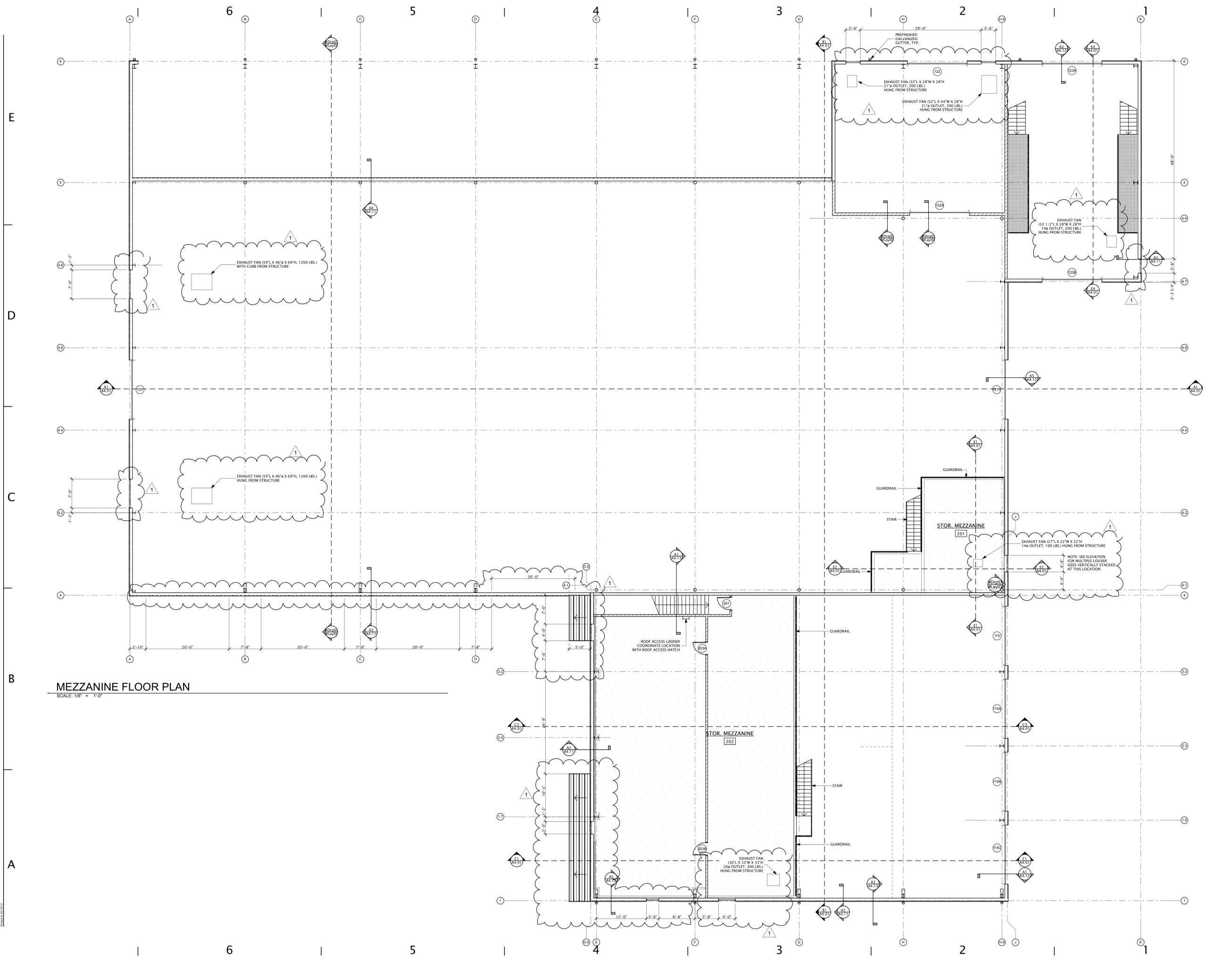
09.20.2012	ADD - 001
08.10.2012	BIDDING - BP 001
05.03.2012	SITE PLAN REVIEW
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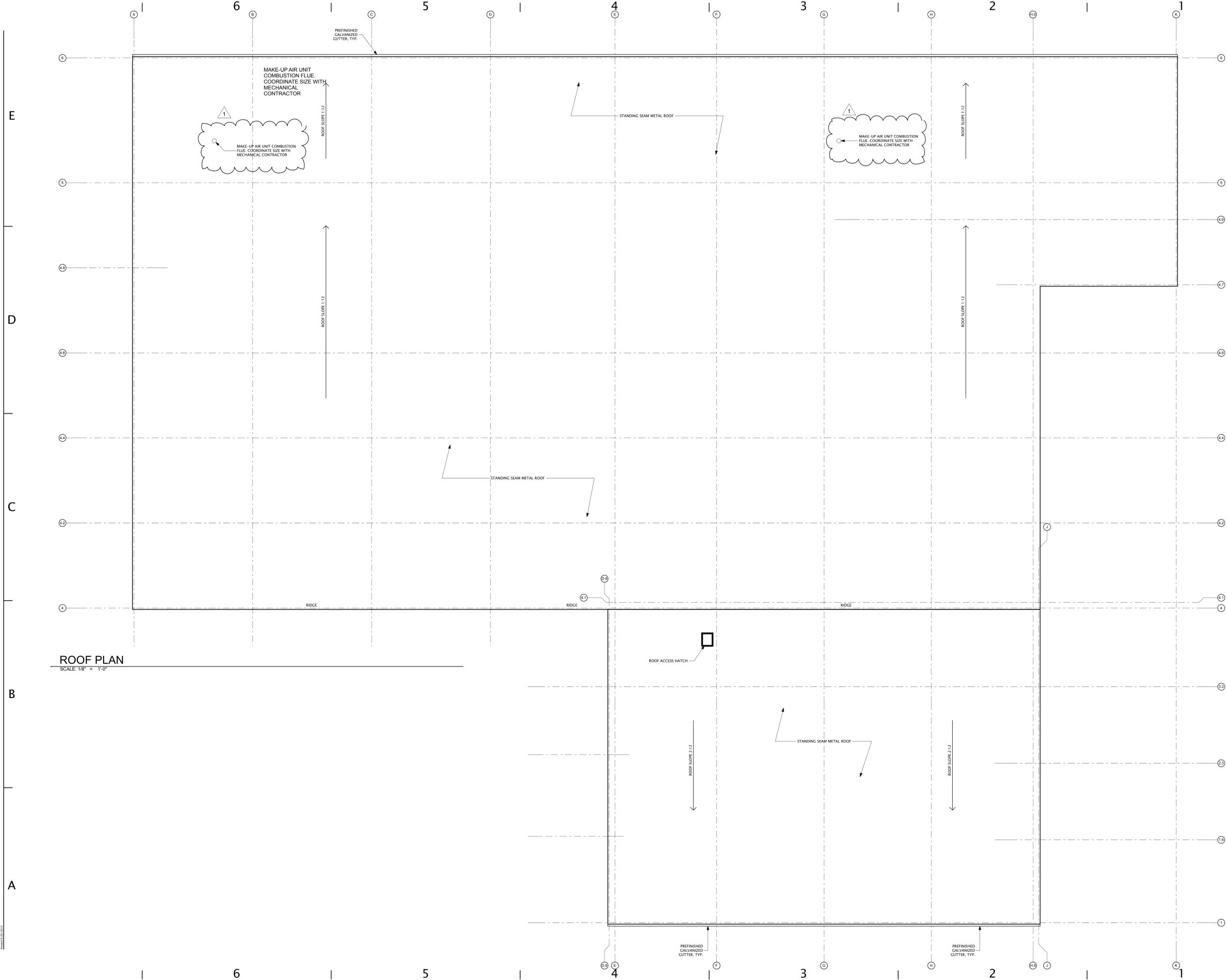
CHECKED CV
 APPROVED AB

TCI JOB NO. 106049

SHEET TITLE
Mezzanine Floor Plan

SHEET NO.
A1.02





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ARCHITECTS
 LANDSCAPE ARCHITECTS
 INTERIOR DESIGNERS
 PLANNERS

C-1002 Received 9/20/2012

PROJECT TITLE
**Lucas County Road
 Maintenance
 Building**
 1049 S. McCord Rd.
 Holland, Ohio
 Prepared for the
 Lucas Co. Board of
 Commissioners

09.20.2012	ADD - 001
08.10.2012	BIDDING - BP 001
05.03.2012	SITE PLAN REVIEW
BID PACKAGE: PRE-ENGINEERED METAL BUILDING SYSTEM	

CHECKED CV
 APPROVED AB

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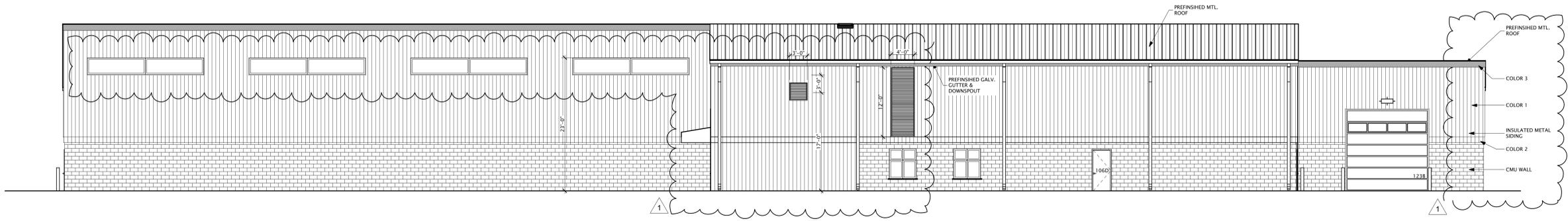
SHEET TITLE
Roof Plan

SHEET NO.
A1.03

Revised: 09/20/2012

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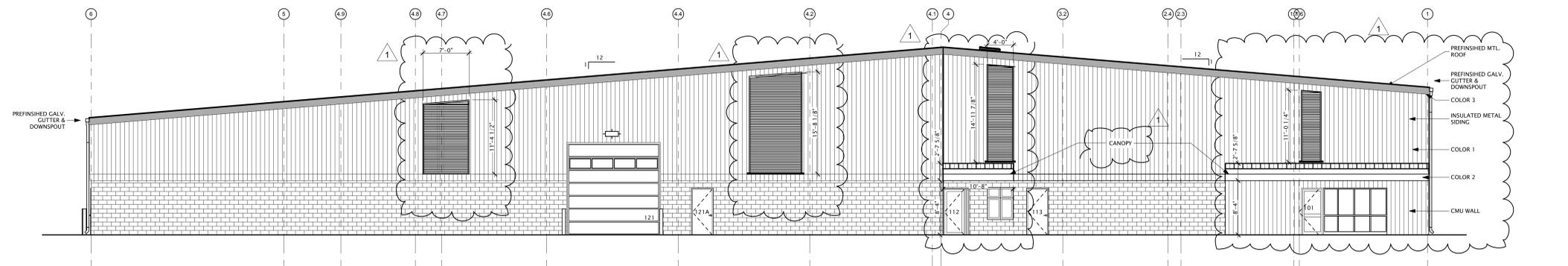
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E1 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

ALL LOUVERS PROVIDED BY PEB CONTRACTOR

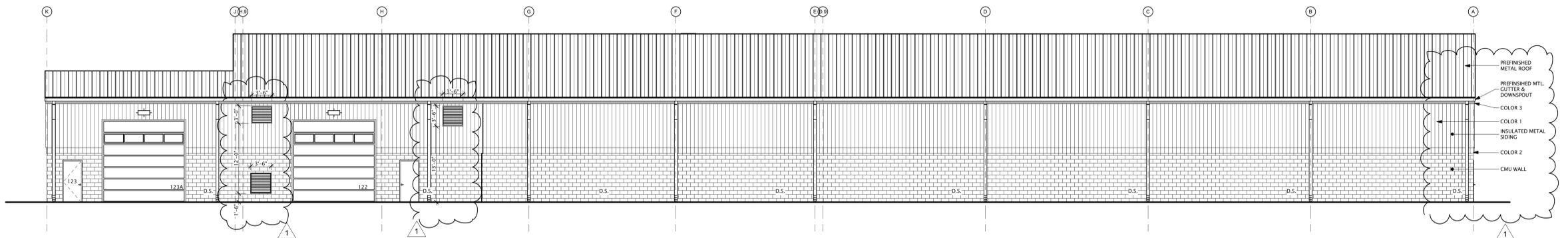
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C1 WEST ELEVATION
SCALE: 1/8" = 1'-0"

ALL LOUVERS PROVIDED BY PEB CONTRACTOR

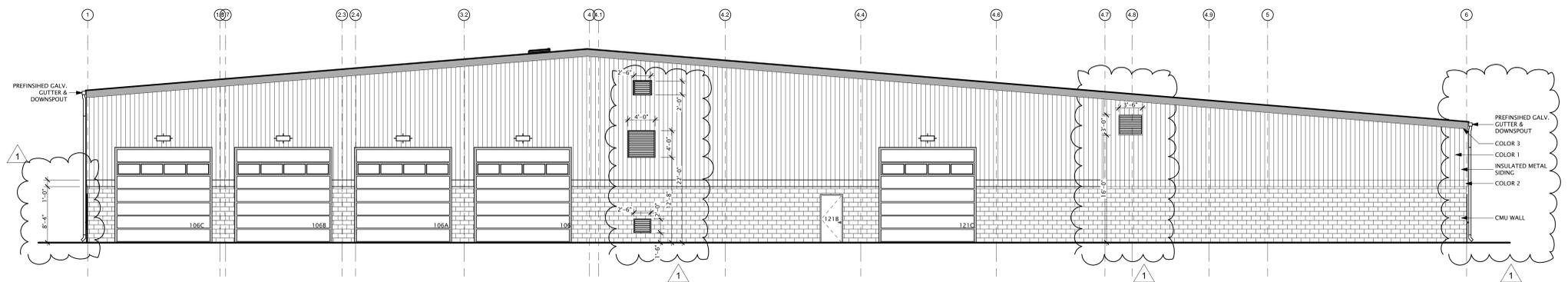
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B1 NORTH ELEVATION
SCALE: 1/8" = 1'-0"

ALL LOUVERS PROVIDED BY PEB CONTRACTOR

B



A1 EAST ELEVATION
SCALE: 1/8" = 1'-0"

ALL LOUVERS PROVIDED BY PEB CONTRACTOR

A

6 | 5 | 4 | 3 | 2 | 1

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ARCHITECTS
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C-102 Received 9/20/2012

PROJECT TITLE
**Lucas County Road
Maintenance
Building**
1049 S. McCord Rd.
Holland, Ohio

Prepared for the
**Lucas Co. Board of
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09.20.2012	ADD - 001
08.10.2012	BIDDING - BP 001
05.03.2012	SITE PLAN REVIEW

BID PACKAGE:
PRE-ENGINEERED METAL BUILDING SYSTEM

CHECKED CV
APPROVED AB

TCI JOB NO. 106049

SHEET TITLE
Exterior Elevations

SHEET NO.
A3.01

Revised: 09/20/2012

September 20, 2012

ADDENDUM NO. 001

To the Drawings and Specifications for:

**Lucas County Road Maintenance Building
Pre-engineered Metal Building System – Bid Package 12-
026P**

106049

Lucas County Board of Commissioners

Prepared By:

THE COLLABORATIVE INC
Architects
Landscape Architects
Interior Designers
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TO ALL BIDDERS:

This addendum supplements and amends the original drawings and specifications, and shall be taken into account in preparing proposals, and shall become a part of the contract documents. Receipt of this Addendum must be acknowledged in the Bid Form.

Specifications

Section 01 0100 – (Section not re-issued)

Item #1 Delete Section 1.4 in its entirety. Replace with the following revised Section 1.4 wording:

1.4 WORK COVERED BY CONTRACT DOCUMENTS

A. The Work of Project is defined by the Contract Documents and consists of the following:

1. Providing the specified and required components of the pre-engineered metal building including primary and secondary framing members, sidewall and roof structural girts, insulated metal wall panels, standing seam metal roof panels, wall and roof insulation indicated as part of the pre-engineered metal building system, metal trim, closures, and other components required for a complete pre-engineered metal building system and all necessary labor, materials, supervision, taxes, insurance, cartage, storage, temporary protection, tools, equipment, layout, field engineering, and all things necessary or incidental to furnish, deliver and install complete in every detail the Work as defined by the drawings, specifications, and bid documents.

B. Type of Contract:

1. This will be a lump-sum contract utilizing the Owner's standard form of agreement included in the Bidding Documents.

Section 08 9119 FIXED LOUVERS

Item #1 This section is issued as part of this addendum in its entirety. Refer to the attachment.

Section 13 3419 METAL BUILDING SYSTEMS – (Section not re-issued)

Item #1 Under Part 2, Section 2.1, Paragraph A, add "United Structures of America, Inc." as an acceptable manufacturer.

Item #2 Under Part 2, Section 2.3, Paragraph B, Item 3, sub-item I, add the following design loading requirements:

- a. Owner/FM Global Insurance Criteria:
 - 1) Minimum Wind Load Pressure:
 - a) Exterior walls, field: 16.6 psf.
 - b) Exterior walls, 12-foot strip at corners: 20.4 psf.
 - 2) Minimum Wind Uplift Pressure:
 - a) Roof, field: 16.8 psf.
 - b) Roof, 10-foot perimeter: 28.1 psf.
 - c) Roof, 10-feet by 10-feet each corner: 42.3 psf.

Drawings

Architectural Drawings

Drawing A1.01 "First Floor Plan" – Re-Issued

- Item #1 Added storefront entrance and window system along Column Line D.9.
- Item #2 Added entrance canopy construction along Column Line D.9 above doors 101 and 112.
- Item #3 Eliminated two (2) punched window openings and extended metal siding to grade along Column Line 1 between Columns E and G.
- Item #4 Revised louver location along Column Line J between Columns 4.1 and 4.2.

Drawing A1.02 "Mezzanine Floor Plan" – Re-Issued

- Item #1 Added louvers to exterior wall along Column Line A.
- Item #2 Added four (4) windows along Column Line 4 between Columns A and D.9.
- Item #3 Added louvers and canopies to exterior wall along Column Line D.9.
- Item #4 Added louvers to exterior wall along Column Line 1.
- Item #5 Added louvers to exterior wall along Column Line J.
- Item #6 Added louvers to exterior wall along Column Line K.
- Item #7 Added louvers to exterior wall along Column Line 6.
- Item #8 Added locations and weights of structure suspended exhaust fan units.
- Item #9 Added locations and weight of structure suspended make-up air unit.

Drawing A1.03 "Roof Plan" – Re-Issued

- Item #1 Added location of make-up air flue penetrations between Column Lines 5 and 6 and Columns A and H.

Drawing A3.01 "Exterior Elevations" – Re-Issued

- Item #1 Added high windows on South Elevation.
- Item #2 Added louvers on South Elevation.
- Item #3 Extended insulated metal siding to grade in specific areas along South Elevation.
- Item #4 Eliminated two (2) punch windows on South Elevation.
- Item #5 Added louvers along the West Elevation.
- Item #6 Extended insulated metal siding to grade in specific areas along West Elevation.
- Item #7 Revised entry door to storefront system on West Elevation.
- Item #8 Added two (2) canopy structures above doors on West Elevation.
- Item #9 Added louvers on North Elevation.
- Item #10 Added louvers on East Elevation.