

ADDENDUM NO. 1

PROJECT NAME: CHRISTENSON FACILITY HAIL DAMAGE REPAIR
UNL PROJECT NUMBER: SR 462906

CONSULTANT: UNL FACILITIES PLANNING & CONSTRUCTION
ADDRESS: 1901 Y STREET, LINCOLN, NE 68588-0605

DATE OF ISSUANCE: September 13, 2012
DATE OF BID OPENING: September 25, 2012

The bid documents dated August 31, 2012 for the above referenced project are amended by this addendum.

NOTICE: This Addendum is issued to all interested prospective bidders as an amendment to the project manual or other parts of the bidding (contract) documents for the above named project. Reference to this Addendum must be included in the Bid proposal. The information contained herein shall be fully incorporated into the contract documents as though originally included therein.

MODIFICATIONS TO THE PROJECT MANUAL:

SECTION 00 11 16 - INVITATION TO BID

1. Modify 2.0, A. Closing Date and Time for Receipt of Bids:
 - a. Tuesday, September 25, 2012; 2:00 PM CDT

SECTION 076113 Sheet Metal Roofing

1. Replace entire section with attachment #1.01.

MODIFICATIONS TO THE DRAWINGS:

DRAWING NO C0.01

1. (Delete) "HAIL DAMAGE REPAIRS, NORTH ELEVATION SCOPE OF WORK & Alternates:
Replace with attachment #1.02.

DRAWING NO A1.01

1. (Delete): Replace with attachment #1.03.

DRAWING NO A3.01

1. (Delete): Replace with attachment #1.04.

END OF ADDENDUM NO. 1

076113

Sheet Metal Roofing

PART 1 GENERAL

1.01 DESCRIPTION OF WORK

- A. This Section covers replacement of architectural sheet metal roofing as shown on the Drawings and as specified herein.
 - 1. Provide accessories and other items essential to complete the sheet-metal roofing removal & installation, though not specifically indicated or specified.
- B. Related Work Specified Elsewhere.
 - 1. Refer to all Section. in Division 0, CONTRACT REQUIREMENTS and Division 1, GENERAL REQUIREMENTS.
 - 2. Gravel stop and fascia are specified in Section 076200. SHEET METAL WORK.
 - 3. Sheet metal work shall be as specified in Section 076200, SHEET METAL WORK.
- C. Reference Standards:
 - 1. Sheet metal roofing shall be in accordance with the Architectural Sheet Metal Manual and Specification by the Sheet Metal and Air Conditioning Contractors National Association. Inc., as applicable.

1.02 JOB CONDITIONS

- A. Protection:
 - 1. Protection of Copper.
 - a. Portions of ferrous metal that will be in contact with copper shall be given a coat of asphalt varnish prior to application of the copper item.

1.03 SHOP DRAWINGS

- A. Roof Insulation Manufacturer end Type.
- B. Roofing Manufacturer and Product Data.
- C. Roof Drawings end Details.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Materials shall conform to the respective specification and other requirements specified below.
 - 1. Sheet metal roofing, except as otherwise indicated or specified, shall be 1-1/2" – 2" Standing seam equal to "Zee—Lock Panel" manufactured by the Berridge. Manufacturing Co. Products manufactured by MBCI,, Smlth-Steelite, Vincent Metals Building Products Group or Knudson Manufacturing Roofing Systems are acceptable based upon products of equal quality, performance and appearance. Panels shall be pre-painted, 24-guage hot-dipped galvanized steel (G—90) neiercia1 quality, extra smooth primed and finished one side with Kynar based fluoropolymer coating, 1.0 plus 0.1 .11 total dry film thickness.
 - a. A wash coat of .3 - .4 .11 dry thickness shall be applied to the reverse side.

- b. The pre-painted finished side shall be coated with a liquid—applied, factory installed, strippable film for protection of the finished surface during shipping, fabrication, and Installation.
 2. Fastening not specified for a particular sheet metal application shall be of the type best suited for the intended purpose.
 - a. Fastenings for galvanized metal or Terne Metal shall be galvanized steel or stainless steel.
- B. Roof Insulation shall be rigid, closed-cell, polyurethane/polyisocyanurate.
1. The insulation shall be integrally bonded between minimum 1/2" plywood minimum grade CD exposure 1 APA rated and glass fiber reinforced felt facer. Edge joints shall be shiplapped or rabbeted. The R-Value shall be a minimum of 27, with nominal thickness of 4 inches. Insulation shall meet or exceed the following test requirements and results:
 - a. Thermal conductivity shall be (K) 0.165 Btu'; per hr. square foot degree F. per inch in accordance with ASTM C 177.
 - b. Vapor transmission of less than one (1) perm in accordance with ASTM E 96.
 - c. Water absorption shall be less than 1% by volume in accordance with ASTM C 209.
 - d. Compressive strength shall be 20 psi or greater in accordance with ASIN D 1621.
 - e. Flame spread shall be 25 or less in accordance with ASTM E 84.
 2. Insulation shall be one of the followings:
 - a. Atlas Energy Products WZ Foam Roof Insulation.
 - b. Cornell Corporation (NBI) Roof Insulation.

PART 3 EXECUTION

3.01 INSTALLATION/APPLICATION/PERFORMANCE/ERECTION

A. Sheet Metal Roofing.

1. Sheet metal roofing shall be laid on high-quality rosin sized paper. Do not drive nails through sheet metal sheets. All solder used shall be strictly half and half (pig lead and block tin). Workmen shall wear rubber shoes.
 - a. Standing Seam. Provide 1-1/2 inch to 2" (38mm – 51mm) high double-locked standing seams, installed in accordance with the .manufacturer's specifications.
 - b. Cross seams shall be cleated, flat locked and soldered. Form according to flow and stagger all cross seams.
 - e. Pre-painted coating must be mechanically removed if soldering is necessary. Use color matched touch-up paint and rivets where required.
 - d. Provide all other incidental drips, flashings, etc., and as required and as shown. Sheetmetal to be pre-painted where exposed to view.
 - e. After installation is complete, immediately remove strippable film. (Extended exposure of strippable film to ultraviolet light may damage coating.)
 - f. Provide water tight vinyl inserts at seams.
 - g. The roofing system shall be designed to accommodate thermal movement without compromising structural integrity or weather tightness.
 - h. Color shall be equal to Berridge, Kynar 500, Teal Green.

B. Built-In Box Gutters.

1. The supporting surf under gutter linings shall be covered with roofing felt and over this a ply of rosin sized building paper shall be installed.
2. Gutter lining shall be formed of 24 gage (0.70 mm) pre-painted galvanized steel sheets conforming to the profile of the gutter. There shall be no longitudinal seams. Gutter linings shall be installed in accordance with referenced standards.
3. Connection to Roofing. The top rear edge of the gutter lining shall be folded over 3/4 Inch (20 mm) and terminated at the edge of the roof. The top edge of the gutter lining shall be secured with continuous cleats spaced 3 feet (1.0 in) on centers in accordance with referenced standards.

3.02 CLEANING

- A. Thoroughly clean sheet metal roofing of flux, scraps and dirt.

PART 4 WARRANTY

A. 20 year watertight roof system warranty.

1. Complete system & labor warranty against leaks for the duration of the warranty period.

B. 20 year finish warranty

1. No cracking, chipping or peeling due to deterioration of finish.
2. No color changes in excess of 5 NBS Units (Using the NBS unit of color notation as measured on the MEECO colormaster: (ASTM-D2244).
3. No chalking in excess of Number 8 rating (ASTM-D659-80 for warranty period.

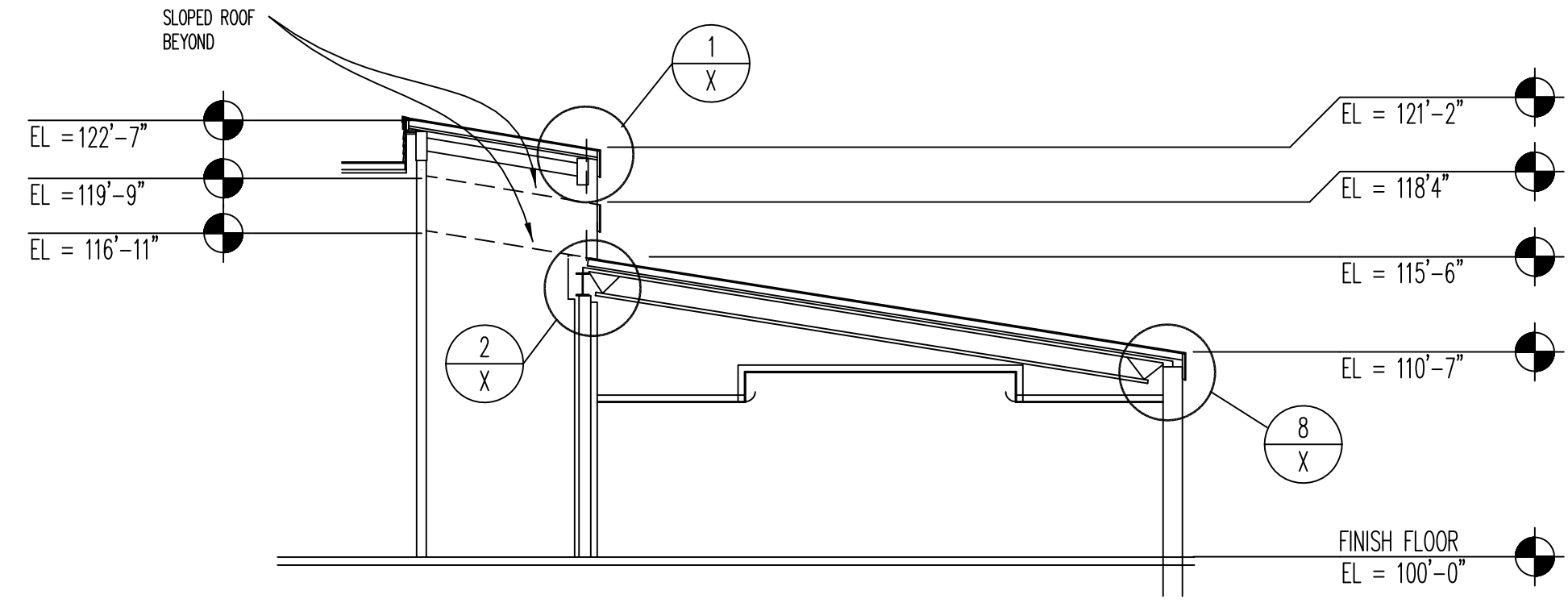
END OF SECTION

HAIL DAMAGE REPAIRS, NORTH ELEVATION SCOPE OF WORK:

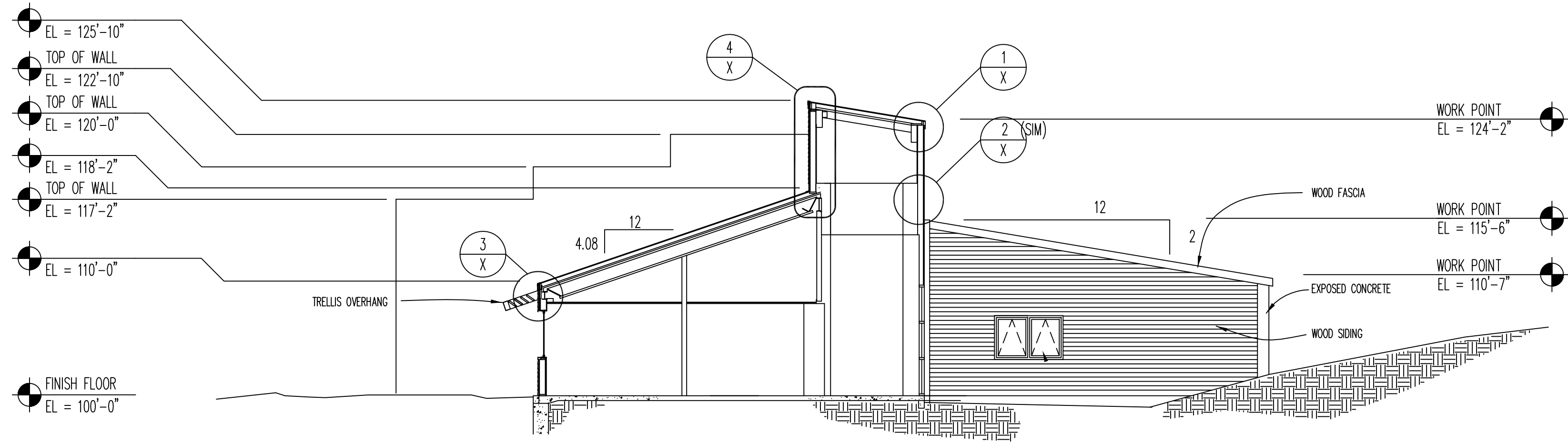
- Remove & replace siding & hail damaged trim on the entire North elevation & East elevation of Courtyard **and entrance canopy columns.**
- Remove & replace standing seam roof, hail damaged trim & cap flashing; entire North & South elevations. (Areas #1, 2, 3, 4, 5 & 6 on roof plan.)
- Remove & re-install lightning rod system as needed to complete scope of work. Lightning Rod System to be re-installed mechanically. Adhesives will not be accepted.
- Remove & replace gutters & downspouts; entire North & South elevations.
- Paint replacement siding to match existing.
- Scrape, prime & paint existing fascia and trim; entire north elevation.
- Scrape, prime & paint wood siding and trim on West elevation, North of canopy
- Scrape, prime & paint masonry walls; entire North elevation.
- Remove & replace existing cap flashing at West canopy.
- Remove & replace hail damaged sill flashing @ courtyard windows; North elevation
- Remove & replace + 24 x 24 operable louver, North elevation.
- Remove & replace EPDM roof membrane @ West canopy. (Area #7 on roof plan)
- Remove & replace light fixtures in North courtyard **with Lithonia #TWS-32TRT-M/VOLT-PE-LPI.**
- Remove & replace existing roof exhaust and vent shrouds to match existing.

Alternates:

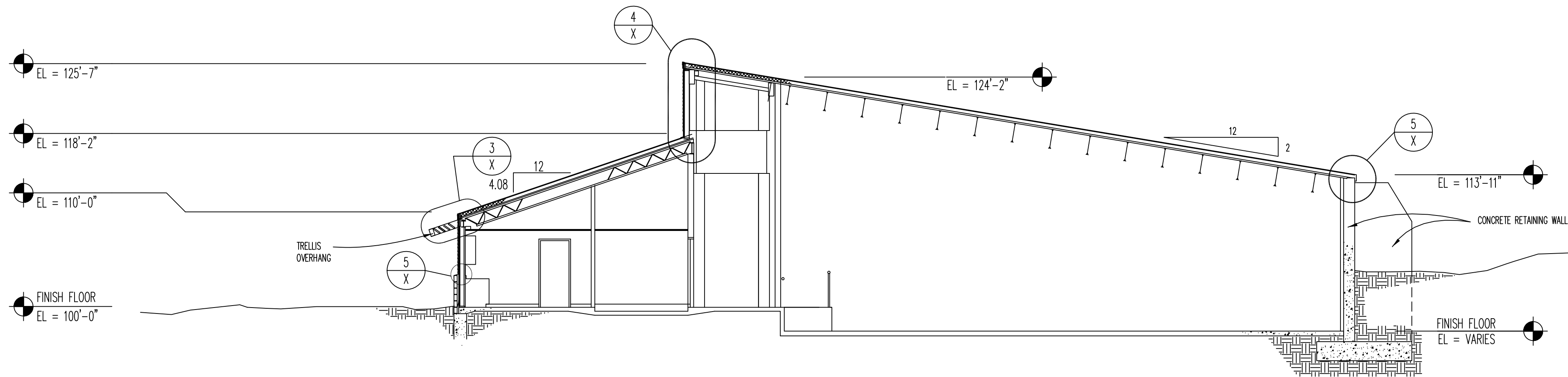
- #1: - Scrape prime & paint siding, fascia & trim; Entire South elevation **and East elevation of office area.**
See 4/3.01.
- #2: - Remove & replace existing 20 ton condensing coil(s), **shroud** and line set insulation for existing A/C; North elevation.



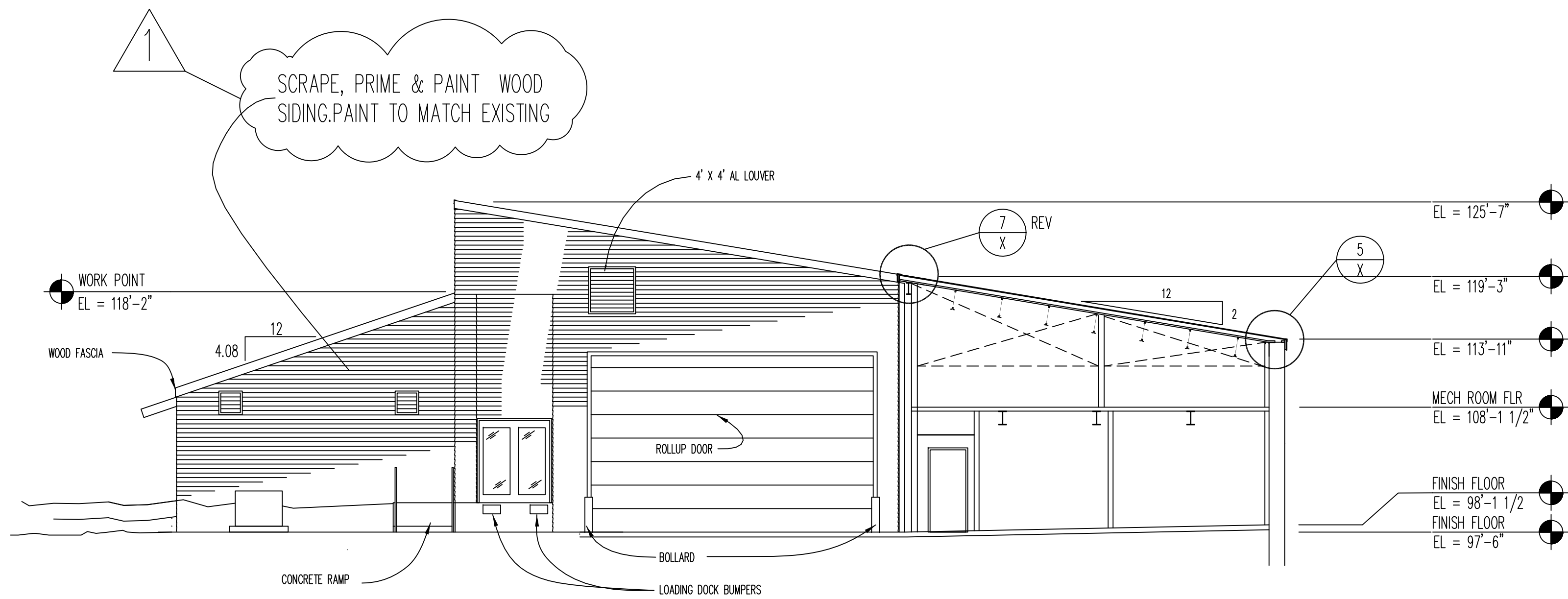
1 BUILDING SECTION
3.01 SCALE: 1/8" = 1'-0"



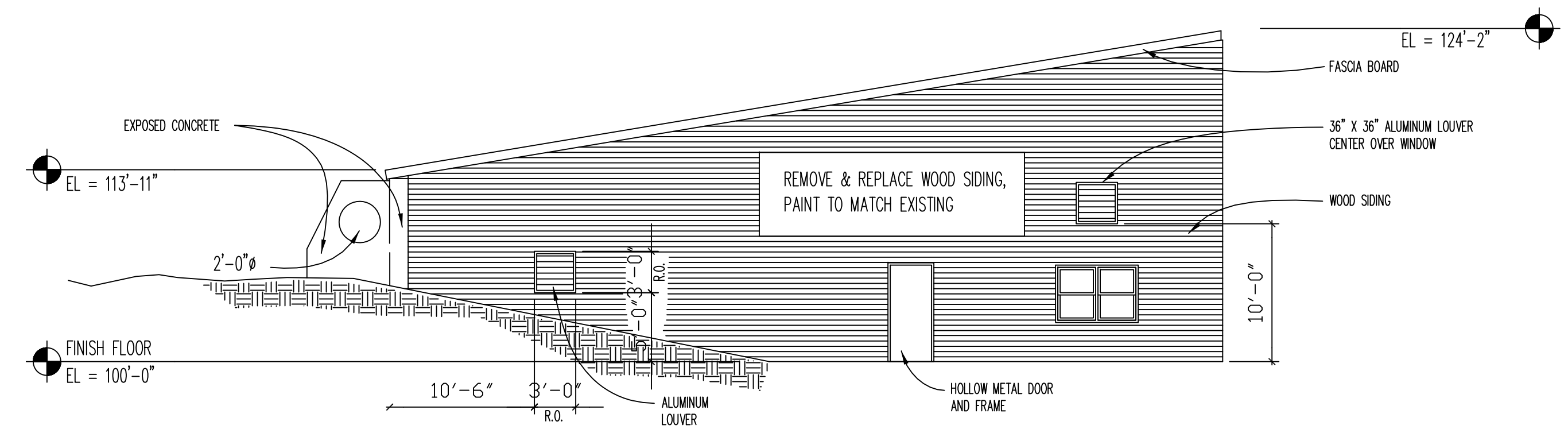
2 BUILDING SECTION
3.01 SCALE: 1/8" = 1'-0"



3 BUILDING SECTION
3.01 SCALE: 1/8" = 1'-0"



4 BUILDING SECTION
3.01 SCALE: 1/8" = 1'-0"



5 BUILDING SECTION
3.01 SCALE: 1/8" = 1'-0"

1 09/14/12
Attachment 1.04