



DANE COUNTY DEPARTMENT of PUBLIC WORKS, HIGHWAY and TRANSPORTATION

County Executive
Kathleen M. Falk

1919 Alliant Energy Center Way ♦ Madison, Wisconsin 53713
Phone: (608) 266-4018 ♦ Fax: (608) 267-1533

Commissioner / Director
Gerald J. Mandli

September 25, 2008

ATTENTION ALL REQUEST FOR BID (RFB) HOLDERS

RFB NO. 108124 - ADDENDUM NO. 2

REPLACE JUVENILE SHELTER WINDOWS

BIDS DUE: Thursday, October 2, 2008, 2:00 PM. DUE DATE AND TIME ARE NOT CHANGED BY THIS ADDENDUM. BID LOCATION IS CHANGED.

This Addendum is issued to modify, explain or clarify the original Request for Bid (RFB) and is hereby made a part of the RFB. **Acknowledge receipt of all Addenda on the Bid Form.**

PLEASE MAKE THE FOLLOWING CHANGES:

1. Add Specification Section 08 51 13 – Aluminum Windows

Add the attached specification section to the bid documents. This section describes work to be bid on under Alternate Bid #2 and Alternate Bid #3.

2. Bid Opening Location is Changed

The World Dairy Expo will be taking place on the Alliant Energy Center grounds on the day of the bid opening, and this event will limit access to the Public Works office. For this reason, the bid opening has been moved to room 425 of the City-County Building, which is located at 210 Martin Luther King Jr Blvd, Madison, WI 53703.

3. Replace Bid Form

Replace the original Bid Form with the new, attached Revised Bid Form. This Bid Form accounts for the change in Bid opening location, and it provides additional bid lines for Alternate Bid #2 and Alternate Bid #3.

4. Section 08 52 00

Page 5 - Item 2.5.B:

Change: "Clear anodized aluminum cladding.", to: "Stain and two (2) coats of varnish; color to match existing."

5. Interior Stoop and Trim

All interior woodwork around the windows, including, but not limited to, the stoop and trim are to be replaced with new materials, finish to match existing with stain and two (2) coats of varnish.

6. Glazing on Bathroom Windows

There are two bathroom windows on the second floor. Provide these windows with factory installed glazing to make the windows opaque. These two windows are listed in the windows schedule as having rough openings of 48" x 48".

7. Blinds

Remove existing blinds during construction, and reinstall existing blinds upon completion of new window installation.

8. Exterior Sill

The exterior wooden sill on the second floor is to remain as-is.

9. Existing Window Drawings

Some of the existing window drawings, cross sections, and details are attached to this Addendum. These are not all-inclusive. The entire building drawings are available to view and request copies of in the Dane County Department of Public Works office, 1919 Alliant Energy Center Way, Madison WI, 53713.

10. Number of Panels in New Windows

The existing second floor windows with approximate rough opening widths of 96" serve two bedrooms. These bedrooms are split by a common wall that runs down the middle of the window opening. Because of this wall, the new windows may not be 3-panel windows. For all new windows that are designated in the specifications with an approximate rough opening width of 96", there will be two 2-panel windows installed in these rough openings. At the middle of the rough opening, install a center mullion that connects to the existing wall. Cover the exterior of this mullion with .032 Aluminum, finish to match exterior window frame finish. On the interior, tie this new center mullion into the existing walls with wood trim to match existing trim finish. For aesthetic reasons, copy this center mullion design of the second level windows to the first level windows with rough openings of approximately 96". On the first floor, cover the interior surface of the center mullion with a trim board, material and trim to match existing trim.

11. Cover Boards with Aluminum Flashing

There are existing 1"x4" nominal boards on the exterior of the first floor windows. These are not located on any of the second floor windows. These 1"x4" boards are located on the two sides of each first floor window opening, and they run the full height of each window opening. There will also be boards exposed to the elements where the center mullions are built out for this project, as described in item number 10 of this Addendum. Cover all of the 1"x4" nominal boards and all of the center mullion boards with .024 anodized aluminum flashing, finish to match new window frame. Tie flashing into new window frames and caulk to create a continuous look and an impervious, care-free surface.

If any additional information about this Addendum is needed, please contact John Welch at 608/267-8815 or welch@co.dane.wi.us.

Enclosures:

Revised Bid Form

Specification Section 08 51 13 – Aluminum Windows

Drawings and Details:

1. Wall Cross Section
2. Locations of Details #1-6
3. Details #1-3
4. Details #4-6
5. Detail of Center Mullion on Second Level

REVISED BID FORM

BID NO. 108124

**PROJECT: REPLACE JUVENILE SHELTER WINDOWS
JUVENILE SHELTER**

**TO: DANE COUNTY PURCHASING AGENT
210 MARTIN LUTHER KING, JR. BLVD. - ROOM 425
MADISON, WISCONSIN 53703**

BASE BID - LUMP SUM:

Remove and dispose of 35 existing windows and provide 35 new windows with fixed sashes, as described in Specification Section 08 52 00. Provide temporary partitions and auxiliary heat. The undersigned, having examined the site where the Work is to be executed and having become familiar with local conditions affecting the cost of the Work and having carefully examined the Drawings and Specifications, all other Construction Documents and Addenda thereto prepared by Dane County Department of Public Works, Highway & Transportation hereby agrees to provide all labor, materials, equipment and services necessary for the complete and satisfactory execution of the entire Work, as specified in the Construction Documents, for the Base Bid stipulated sum of:

_____ and _____/100 Dollars
Written Price

\$ _____
Numeric Price

The undersigned further agrees to add the alternate(s) portion of the Work as described, for the following addition(s) to or subtraction(s) from the Base Bid stipulated below. They further agree to honor the alternate(s) bid for 60 days from date of Award of Contract.

ALTERNATE BID #1 - LUMP SUM:

Change in pricing from base Bid amount to perform Alternate Bid #1 Work. Instead of the 35 non-operable windows described in the Base Bid, provide 35 new windows with operating horizontal sashes, as described in Specification Section 08 52 00.

_____ and _____/100 Dollars
Written Price

\$ _____
Numeric Price (circle: Add or Deduct)

ALTERNATE BID #2 - LUMP SUM:

Change in pricing from base Bid amount to perform Alternate Bid #2 Work. Replace the 18 windows on the second floor with fixed sash windows, as described in Specification Section 08 51 13. Replace the 17 windows on the first floor with new windows with operating horizontal sashes, as described in Specification Section 08 51 13. All replacement windows in Alternate Bid #2 are to be aluminum windows instead of metal clad wood windows.

_____ and _____/100 Dollars
Written Price

\$ _____
Numeric Price (circle: Add or Deduct)

ALTERNATE BID #3 - LUMP SUM:

Change in pricing from base Bid amount to perform Alternate Bid #3 Work. Instead of the 35 non-operable windows described in the Base Bid, provide 35 new windows with operating horizontal sashes, as described in Specification Section 08 51 13. All replacement windows in Alternate Bid #3 are to be aluminum windows instead of metal clad wood windows.

_____ and _____/100 Dollars
Written Price

\$ _____
Numeric Price (circle: Add or Deduct)

Receipt of the following addenda and inclusion of their provisions in this Bid is hereby acknowledged:

Addendum No(s). _____ through _____

Dated _____

Dane County Juvenile Shelter must have this project completed by February 13, 2009. Assuming a Notice to Proceed and a Purchase Order are issued by November 13, 2008, what dates can you commence and complete this job?

Commencement Date: _____ Completion Date: _____
(final, not substantial)

What is the lead-time on the windows once they are ordered? _____

Name of Bidder: _____

Address: _____

Telephone No.: _____ Fax No.: _____

Contact Person: _____

SIGNATURE: _____

(Bid is invalid without signature)

BID CHECK LIST:

These items **must** be included with Bid or completed **before** bidding

- Bid Form Bid Bond Fair Labor Practices Certification
 Vendor Registration

SECTION 08 51 13

ALUMINUM WINDOWS

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes factory fabricated extruded aluminum windows, factory glazed, insulated glass, low E, argon filled, and operating hardware.
 - 1. Alternate Bid #2: Provide all second floor windows with fixed sash. Provide all first floor windows with operating horizontal sash, operating hardware, and insect screens over all operable panels.
 - 2. Alternate Bid #3: Provide all first and second floor windows with operating sash, operating hardware, and insect screens over all operable panels. Where there are four glass panels in a single opening, two of the panels must be operable and capable of opening at the same time
- B. Related Sections:
 - 1. Section 06 10 00 - Rough Carpentry: Framed openings.
 - 2. Section 01 50 00 - Temporary Facilities and Controls: Temporary heating.

1.2 REFERENCES

- A. American Architectural Manufacturers Association:
 - 1. AAMA 101 - Voluntary Performance Specification for Windows, Skylights and Glass Doors.
- B. ASTM International:
 - 1. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
 - 2. ASTM D3656 - Standard Specification for Insect Screening and Louver Cloth Woven from Vinyl-Coated Glass Yarns.
 - 3. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors By Uniform Static Air Pressure Difference.
- C. Glass Association of North America:
 - 1. GANA - Glazing Manual.

1.3 SYSTEM DESCRIPTION

- A. Windows: Aluminum sections, factory fabricated, factory finished, factory glazed vision glass, related flashings, anchorage and attachment devices.
- B. Configuration: Conform with AAMA 101 Designations for windows required for Project:
 - 1. Alternate Bid #2: HS-horizontal sliding sash for all second floor windows. F-fixed non-operable sash for all first floor windows.
 - 2. Alternate Bid #3: HS-horizontal sliding sash for all replacement windows.

1.4 PERFORMANCE REQUIREMENTS

- A. Primary Performance Requirements: Aluminum windows to meet performance criteria for AAMA 101 Designation C20 Commercial or better.
- B. Air and Vapor Seal: Maintain continuous air barrier and vapor retarder throughout assembly, primarily in line with pane of glass and heel bead of glazing compound.
- C. System Internal Drainage: Drain water entering joints, condensation occurring in glazing channel, and moisture occurring within system to exterior by weep drainage network.
- D. Thermal Movement: Design sections to permit thermal expansion and contraction of components to match perimeter opening construction.
- E. Water Leakage: None, when measured in accordance with ASTM E331 with test pressure difference as defined by AAMA 101.

1.5 SUBMITTALS

- A. Shop Drawings: Indicate opening dimensions, framed opening tolerances, affected related Work; and installation requirements.
- B. Product Data: Submit component dimensions, anchorage and fasteners, glass, internal drainage, and typical details.

1.6 QUALITY ASSURANCE

- A. Perform Work in accordance with the following:
 - 1. Aluminum Windows: Fabricate and label window assemblies in accordance with AAMA 101 for types of windows required.
 - 2. Insulated Glass: Fabricate insulated glass units in accordance with GANA (formerly FGMA) Glazing Manual.
- B. Perform Work in accordance with State of Wisconsin standards.

1.7 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing commercial aluminum windows with minimum three years documented experience.
- B. Installer: Company specializing in installation of commercial aluminum windows with minimum three years documented experience.

1.8 PRE-INSTALLATION MEETINGS

- A. Convene minimum one week prior to commencing work of this section.

1.9 DELIVERY, STORAGE, AND PROTECTION

- A. Protect factory finished surfaces with wrapping or strippable coating. Do not use adhesive papers or sprayed coatings that bond when exposed to sunlight or weather.

1.10 ENVIRONMENTAL REQUIREMENTS

- A. Do not install sealants when ambient temperature is less than 40 degrees F.
- B. Maintain this minimum temperature during and after installation of sealants.

1.11 WARRANTY

- A. Furnish five year manufacturer warranty for insulated glass units from seal failure, interpane dusting or misting, and replacement of same.
- B. Warranty:
 - 1. Include coverage for degradation of color finish in five year warranty.
 - 2. Include coverage for delamination or separation of finish cladding from window member in five year warranty.

PART 2 PRODUCTS

2.1 ALUMINUM WINDOWS

- A. Manufacturers:
 - 1. Custom Window Co.
 - 2. Desco Windows
 - 3. EFCO Corp.
 - 4. Kawneer Co., Inc.
 - 5. St. Cloud Windows Inc.
 - 6. Traco
 - 7. Substitutions: Substitutions: As approved by Project Manager.
- B. Product Description: Light Commercial quality Aluminum windows thermally broken with interior portion of frame insulated from exterior portion; flush glass stops of screw fastened type.
 - 1. Reinforced Mullion between panels: Extruded aluminum with integral reinforcement of aluminum structural section.

2.2 COMPONENTS

- A. Extruded Aluminum: ASTM B221; 6063 alloy, T5 temper.
- B. Insulating Glass: Sealed double pane units.
 - 1. Outer Pane: Low E tempered float glass.
 - 2. Inner Pane: Clear tempered float glass.
 - 3. Pane Thickness: Determined by size or wind and suction loads.

4. Glazing: Manufacturer's standard.
 5. Galzing: Provide factory installed glazing on two bathroom windows on the second floor with rough opening sizes of approximately 48" x 48" in order to make windows opaque.
- C. Hardware (only on windows with operable sashes):
 1. Sash lock: Lever handle with cam lock.
 2. Pulls: Manufacturer's standard.
 3. Bottom Rollers: Stainless steel, adjustable.
 - D. Sills: Extruded aluminum; sloped for positive wash; fit under sash 1/2 inch beyond wall face; one piece full width of opening.
 - E. Stools: Extruded aluminum; sloped for positive wash; fit under sash to Project 1/2 inch beyond wall face; one piece full width of opening.
 - F. Operable Sash Weather Stripping: Resilient plastic; permanently resilient, profiled to effect weather seal.
 - G. Insect Screen Frame: Rolled aluminum frame of rectangular sections; fit with adjustable hardware; nominal size similar to operable glazed unit.
 - H. Insect Screens: ASTM D3656, Class 2, 18 by 14 mesh, charcoal color.

2.3 ACCESSORIES

- A. Fasteners and Anchors: Stainless steel.
- B. Visual Glass Dividers: Not allowed.
- C. Visual Glass Muntins: Not allowed.
- D. Bituminous Paint: Fibered asphaltic type.
- E. Window Washing Anchors: Stainless steel conforming with applicable codes.
- F. Limit Stops: Resilient rubber.

2.4 FABRICATION

- A. Fabricate components with minimum clearances and shim spacing around perimeter of assembly, yet enabling installation and dynamic movement of perimeter seal.
- B. Accurately fit and secure joints and corners. Make joints flush, hairline, and weatherproof.
- C. Prepare components to receive anchor devices. Fabricate anchors.
- D. Arrange fasteners and attachments to ensure concealment from view.

- E. Prepare components with internal reinforcement for operating hardware.
- F. Furnish internal reinforcement in mullions with galvanized steel members to maintain rigidity.
- G. Permit internal drainage weep holes and channels to migrate moisture to exterior. Furnish internal drainage of glazing spaces to exterior through weep holes.
- H. Assemble insect screen frame, miter and reinforce frame corners. Fit mesh taut into frame and secure. Fit frame with four spring loaded steel pin retainers.
- I. Single weatherstrip operable units.
- J. Factory glaze window units. Install glass in accordance with manufacturer's standard method conforming with GANA and to achieve performance criteria specified.

2.5 SHOP FINISHING

- A. Exterior Surfaces: Clear anodized finish.
- B. Interior Surfaces: Clear anodized finish. All interior wood trim to be replaced with materials, style, and color to match existing wood trim.
- C. Locks, Operators, and Exposed Hardware: Match window finish.
- D. Pull Handles: Anodized aluminum, finish to match window.
- E. Screens: Gray color.
- F. Apply coat of bituminous paint on concealed aluminum surfaces in contact with cementitious or dissimilar materials.

PART 3 EXECUTION

3.1 PREPARATION

- A. Remove and dispose of existing windows units. Create openings and provide framing as indicated on shop drawings.
- B. Provide partitions between areas where windows are being replaced and adjacent occupied building spaces.
- C. Provide supplemental heat to maintain building temperature and to maintain ambient temperature above 40 degrees F for sealant installation.

3.2 EXAMINATION

- A. Verify wall openings and adjoining air and vapor seal materials are ready to receive Work of this section.

3.3 INSTALLATION

- A. Attach window frame and shims to perimeter opening to accommodate construction tolerances and other irregularities.
- B. Align window plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent Work.
- C. Install sill and sill end angles.
- D. Install thermal isolation where components penetrate or disrupt building insulation. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.
- E. Coordinate attachment and seal of perimeter air barrier and vapor retarder materials.
- F. Install operating hardware on windows with operating sashes.

3.4 ERECTION TOLERANCES

- A. Maximum Variation from Level or Plumb: 1/16 inches every 3 ft non-cumulative or 1/8 inches per 10 ft, whichever is less.

3.5 ADJUSTING

- A. Adjust hardware for smooth operation and secure weathertight closure.

3.6 CLEANING

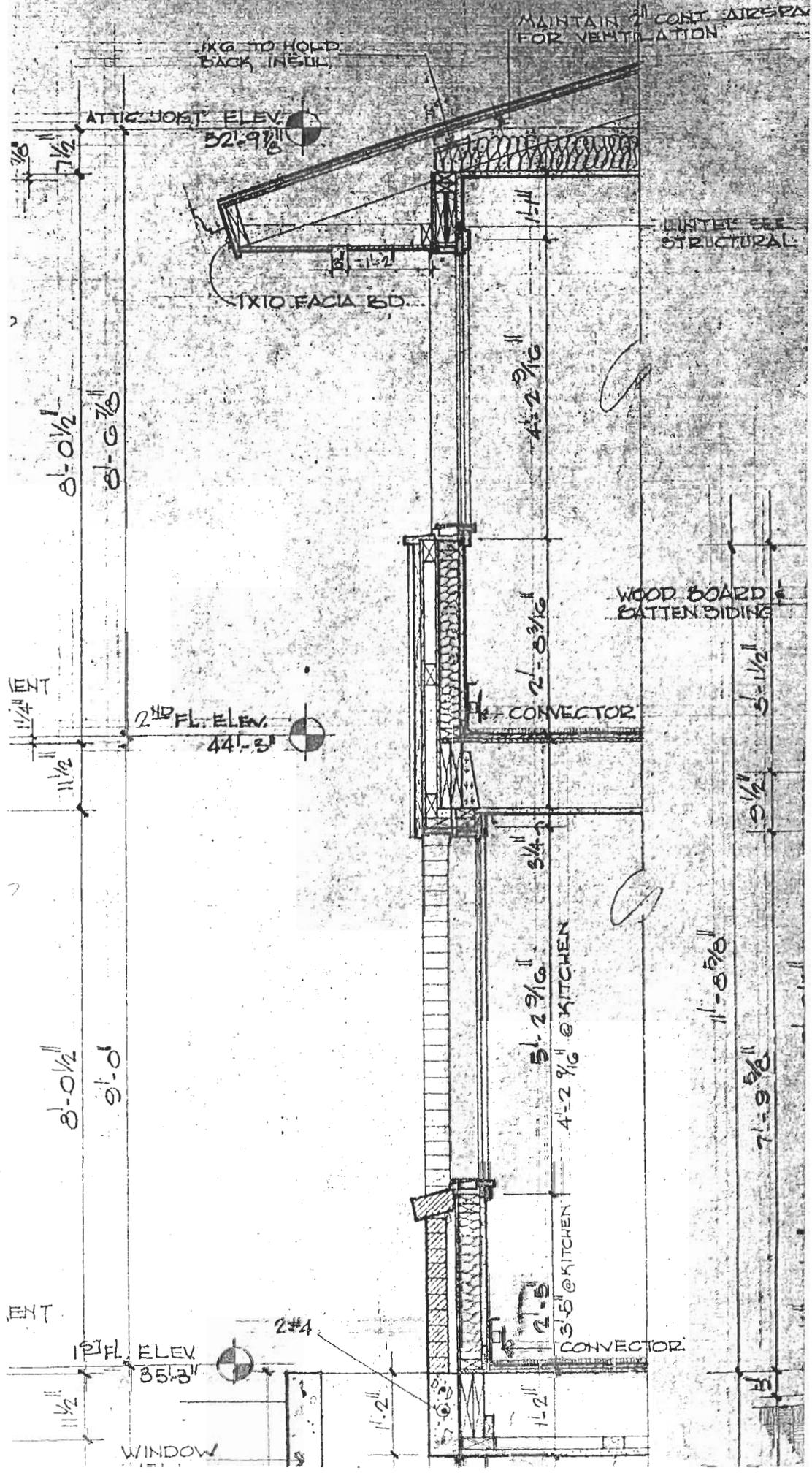
- A. Remove protective material from factory finished aluminum surfaces.
- B. Wash surfaces by method recommended and acceptable to sealant and window manufacturer; rinse and wipe surfaces clean.
- C. Remove excess sealant by moderate use of mineral spirits or other solvent acceptable to sealant and window manufacturer.

3.7 SCHEDULES

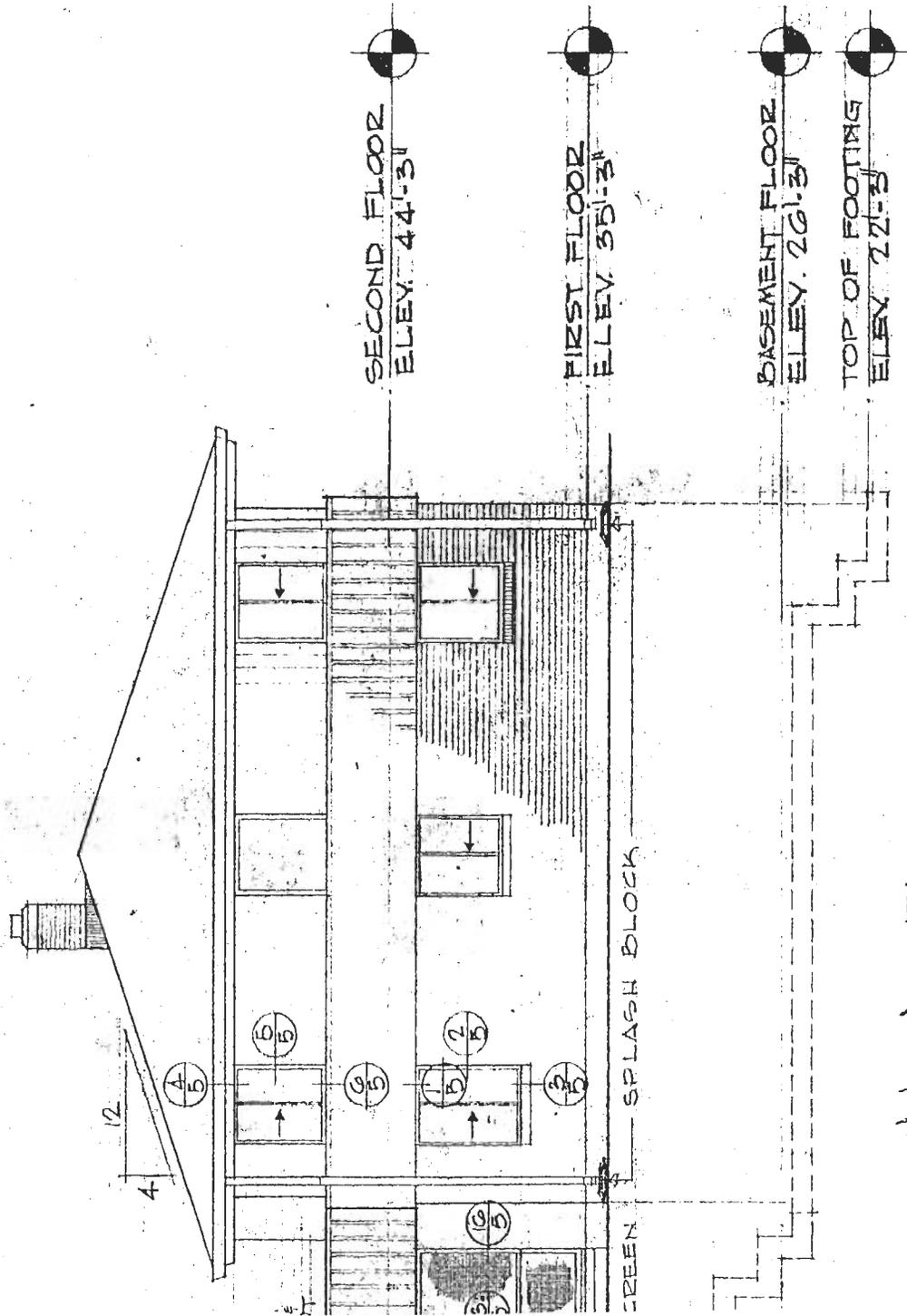
Rough Opening Dimension (W x H)	Floor	Quantity
48" x 48"	2nd	10
96" x 48"	2nd	8
48" x 60"	1st	9
96" x 60"	1st	4
48" x 48"	1st	3
96" x 48"	1st	1

END OF SECTION

Wall Cross Section

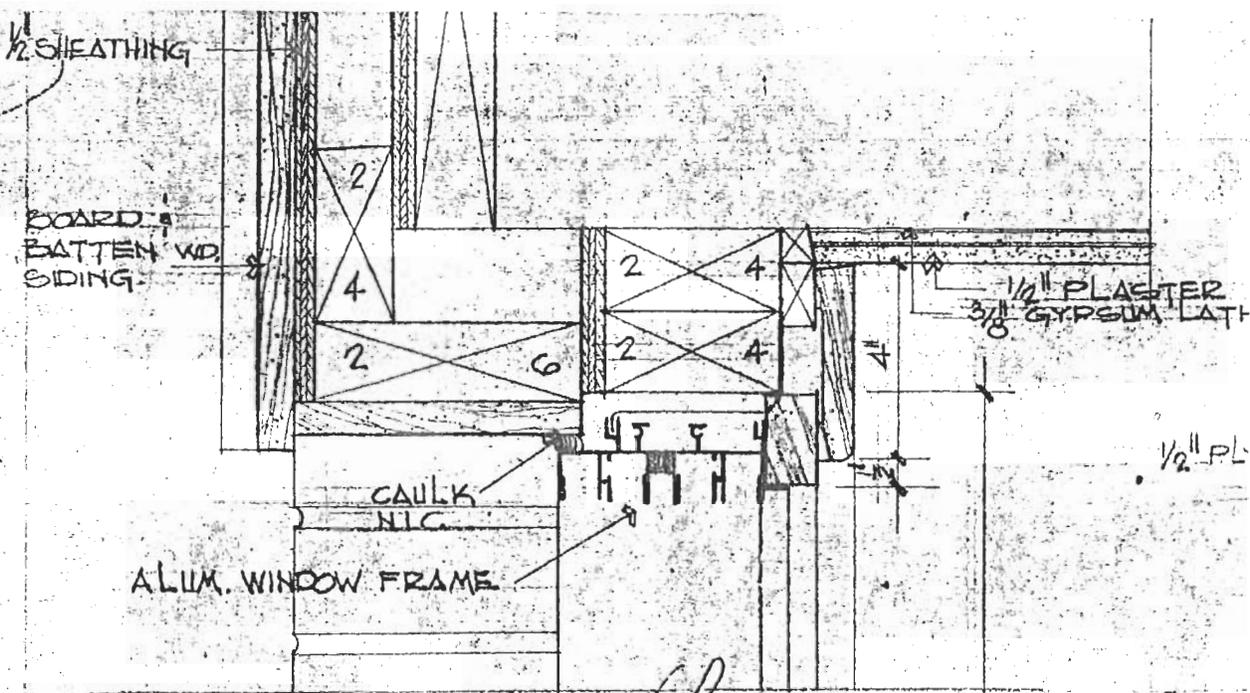


Locations of Details #1-6

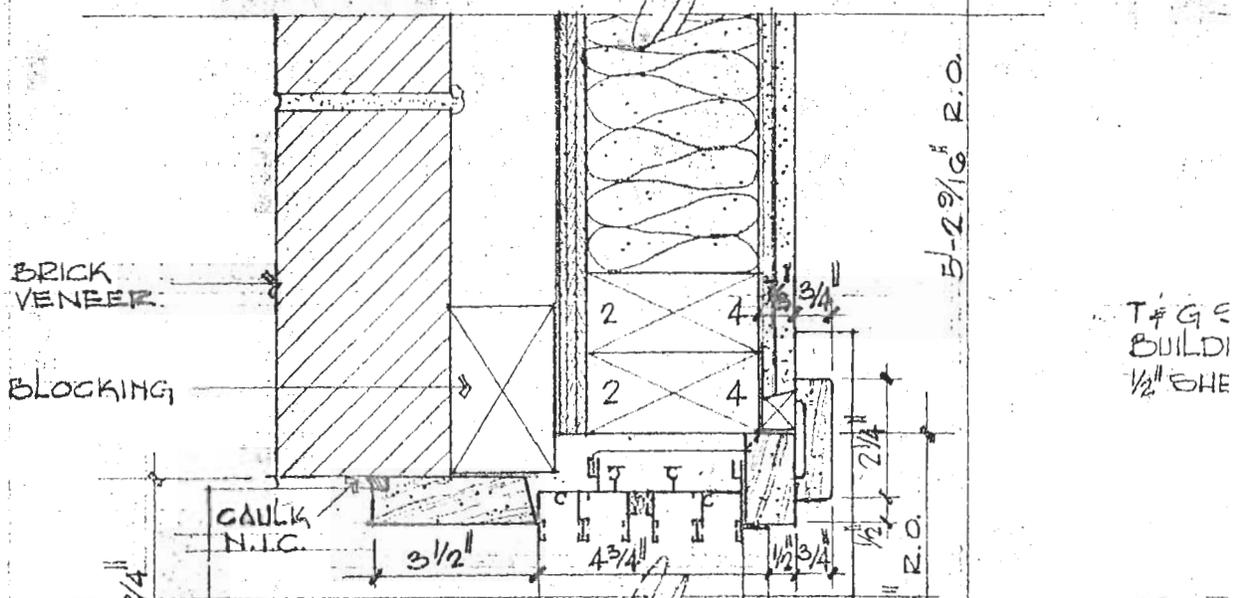


North Elevation

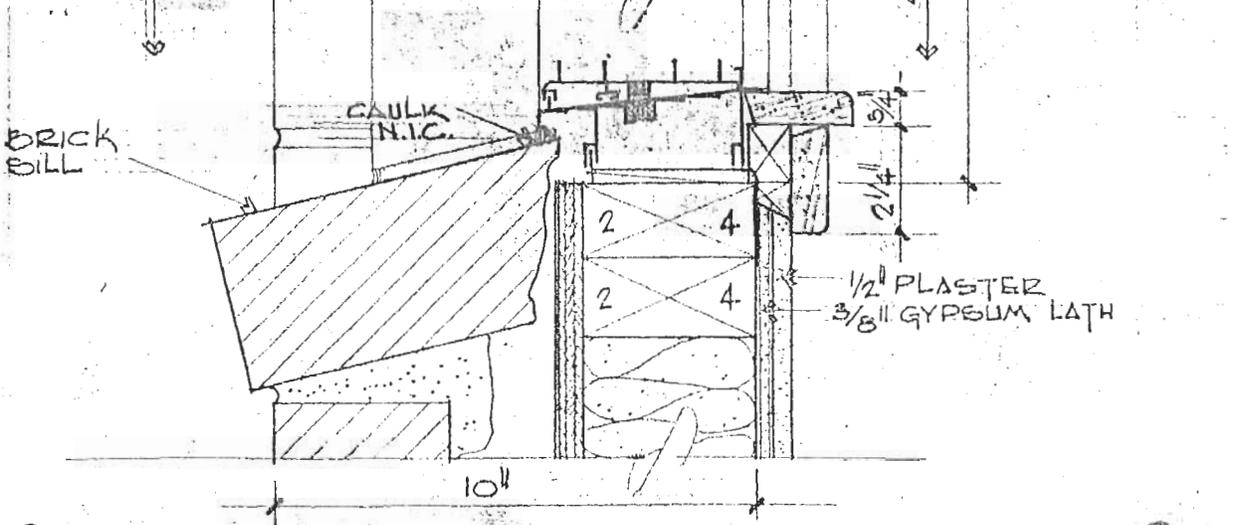
Details #1-3



1 HEAD



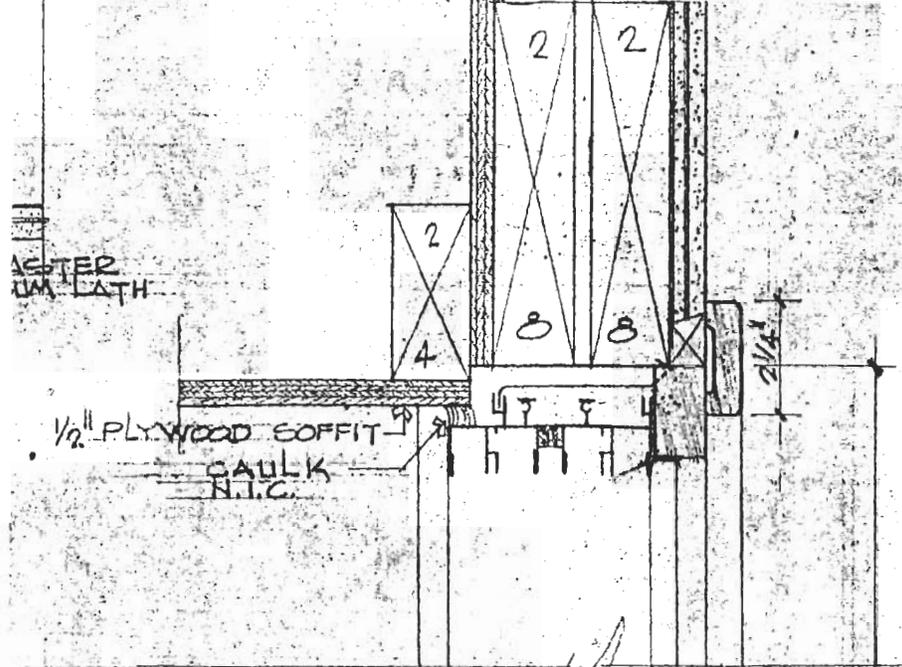
2 JAMB



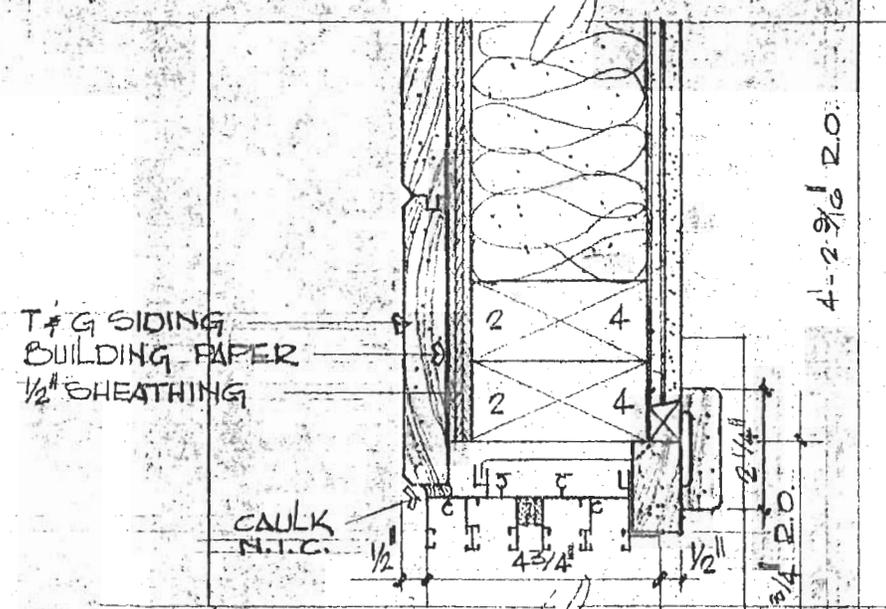
3 SILL

6

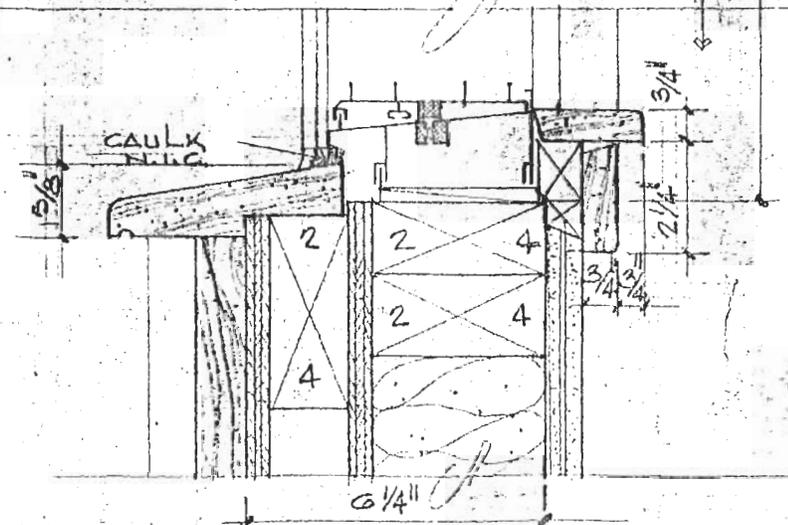
Details #4-6.



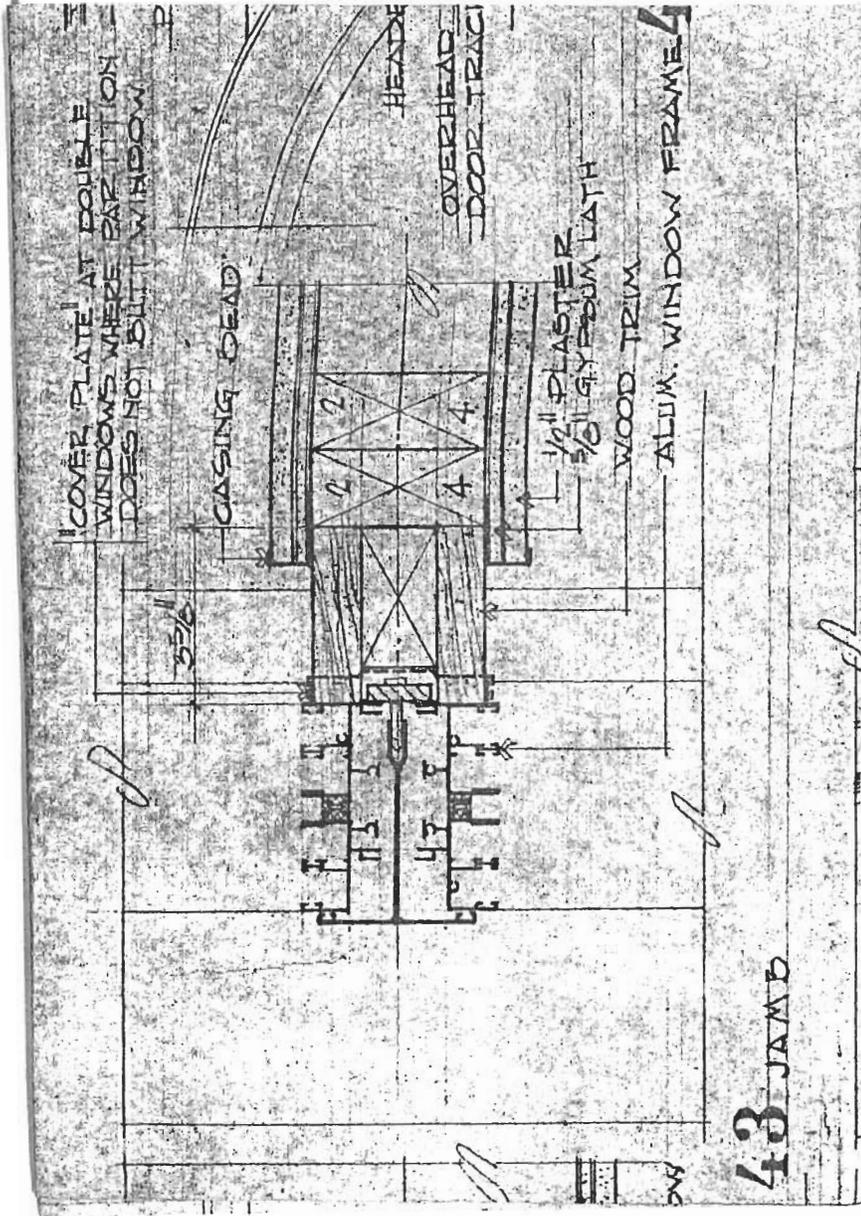
4 HEAD



5 JAMB



6 SILL



Detail of Center Mullion on Second Level