

# BVH ARCHITECTURE

## ADDENDUM

<b>PROJECT:</b>	NSC HVAC Replacement and Window Restoration	<b>PROJECT NO.:</b>	BVH: L14077 OCC: 201405
<b>TO:</b>	Prospective Bidders	<b>DATE:</b>	05/08/2018
<b>FROM:</b>	BVH Architecture	<b>ADDENDUM NO.:</b>	2

This Addendum is issued by the Architect to all bidders of record prior to receipt of proposals. Bidders shall acknowledge receipt of this addendum by so indicating on the Proposal Form. Failure to do so may subject Bidder to disqualification.

All information and instructions given herein shall become a part of the Contract Documents.

## GENERAL

1. Pre Bid Meeting May 1, 2018
  - a. Agenda, attached.
2. Q & A during the pre bid meeting and the subsequent series of tours:
  - a. Each discipline is responsible for their own core drilling. If the systems installation needs core drills, the trade installing that system shall provide needed core drills. If the various construction firms arrange otherwise, that is up to the construction team, but the design team will interpret any needed core drills same as described above.
  - b. In some window pocket locations an angled core drill will be required. How to provide an angled core drill is a means and method matter for the construction trade to determine.
  - c. Equipment pads are covered under the structural drawings and to be built by the GC. Coordinate with MC, FPC, EC and FAC for approved equipment pad dimensions and requirements.
  - d. Each trade is responsible for any floor, wall, and ceiling cuttings required to install the system. The General Contractor is responsible for the patching back of the floor, wall, and ceilings. Refer to architectural and structural drawings, and coordinate each trade with the GC.
  - e. Fire caulking around floor penetrations is required.
  - f. Fire sprinkler systems existing in a phase 1 room shall be kept active as much as possible during that rooms construction.
  - g. Original 1920s ductwork is being retained and must be cleaned. This ductwork is clearly indicated on the plans. Addendum will clarify that the duct cleaning subcontractor will be a bid direct to owner, and will be under the direction of the MC.
  - h. Original ductwork that is damaged shall be repaired. The design team believes there is very little and possibly none in phase 1. Construction of permanent bridging over ductwork shall be provided by contractor if it is necessary to crawl ductwork to access new equipment in ceiling plenums being installed in phase 1.
  - i. Commissioning is independent 3<sup>rd</sup> party, Forte, who is under direct contract to OCC. The HVAC system and its controls is the scope of the commissioning system. See the commissioning spec sections in the project manual. The Mechanical Contractor, the Temperature Controls

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- Contractor, and the Test and Balance Contractor shall include all required time and materials into their bid to fully participate and facilitate the commissioning requirements of the project.
- j. Access to each space (questions included the promenade deck and main corridors for example) and the use of mechanical lifts or similar equipment as required to complete the work shall be determined by the contractors with approval of anticipated loads by the OCC and structural engineer. The intent for the protections required for all spaces and materials shall be maintained, as indicated on the drawings.
  - k. Unit Prices will be considered during bid evaluation.
3. Pre Bid Meeting and Tour Sign In Sheets (all attached)
    - a. Pre-Bid Meeting Design Team and Owner Sign In Sheet
    - b. Pre-Bid Meeting Contractor Sign In Sheet
    - c. Pre-Bid Tours May 1, 2018 – 1:00 to 2:45, Sign In Sheets
      - i. General Contractors / Windows / Architectural / Hazardous Materials
      - ii. Electrical
      - iii. Mechanical / Fire Protection / Fire Alarm
    - d. Pre-Bid Tours May 1, 2018 – 3:00 to 4:45, Sign In Sheets
      - i. General Contractors / Windows / Architectural / Hazardous Materials
      - ii. Electrical
      - iii. Mechanical / Fire Protection / Fire Alarm
    - e. Pre-Bid Tours May 7, 2018 – 9:00 to 10:45, Sign In Sheets
      - i. General Contractors / Windows / Architectural / Hazardous Materials
      - ii. Electrical
      - iii. Mechanical / Fire Protection / Fire Alarm
  4. See the attached Addendum form from Alvine Engineering for additional items.
  5. Window mockup restoration report: dated 01-29-2018
    - a. This attached report is a review and record of the mock up process and its findings during the procedure. This report is not to be used in lieu of any details shown on the contract documents but to act as a supplement.
    - b. The window removal and reinstallation process involved the existing historic review, discovery, understanding, discussion and approval of methodologies for the window system and its numerous components. For general knowledge, it took approximately 8 hours of time for the removal and 8 hours of time for the reinstallation.
  6. Limited unlocked PDF use
    - a. The design team have had requests from the pre-qualified mechanical contractors to obtain a copy of unlocked PDF's for their limited use in bidding the project using their specialized software program. The OCC reviewed this request and has provided them with limited access to these files for this purpose only. Any additional requests will be taken on a case by case basis for review. Any additional requests shall be sent to the architect.
  7. The Fire Alarm subcontractors shall bid their work (complete and installed) directly to the GC.
  8. At the 3<sup>rd</sup> floor Library Stack rooms, at all of the shelving stacks indicated to remain, all of the existing books shall remain in place as well. The GC is to cover the stacks as indicated on the drawings and shall comply with the material to be used as indicated in the specs (015000).

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9. For clarification of the scope of work for the interior office plaster repairs. Refer to Spec 003127, the P1-4 AG4 series of drawings and all other P1 demo and new plan drawings which all need to be reviewed in conjunction with each other.

## PROJECT MANUAL

1. 000100 Table of Contents
  - a. **See attached** Table of Contents for Phase B which was inadvertently left out of the Project Manual.
2. 001153 Request for Qualifications
  - a. ADD: 1.1, E, 4
    1. Historic Decorative Metal Cleaning
  - b. ADD: 1.1, E, 5
    1. Historic Wood Repair
  - c. CHANGE: 1.5, C, 1 as follows:
    1. Each Submittal of Prequalification shall be delivered to the location indicated in the Advertisement for Prequalification on or before 11 May, 2018 @ 2:00 p.m. Written approval will be provided on or before 18 May, 2018 by end of day. Each Submittal of Prequalification shall be submitted in an opaque, sealed envelope marked in the lower left-hand corner as follows:
3. 004113 Bid Form
  - a. ADDED 1.2, C, 5: "Pre-Qualified Subcontractors. Identify the pre-qualified subcontractors included within your proposal, as required by Section 001153, on the lines below."
  - b. ADDED 1.2, D: "Ductwork Cleaning. Provide complete single-prime, stipulated sum for cleaning of all new and existing ductwork as indicated in Contract Documents. The undersigned Bidder, having carefully examined the Procurement and Contracting Requirements, Conditions of the Contract, Drawings, Specifications, and all subsequent Addenda, as prepared by BVH Architecture State of Nebraska State Capitol HVAC Replacement and Window Restoration Project and Architect's consultants, having visited the site, and being familiar with all conditions and requirements of the Work, hereby agrees to furnish all material, labor, equipment and services, necessary to complete the construction of the above-named project, according to the requirements of the Procurement and Contracting Documents, for the stipulated sum of:
    1. Phase 1-Ductwork Cleaning - \_\_\_\_\_ Dollars (\$\_\_\_\_\_).
  - c. ADDED 1.3, B: "The undersigned Ductwork Cleaning Bidder agrees to execute a contract for this Work in the amount indicated and to furnish surety as specified within 10 days after a written Notice of Award, if offered within 45 days after receipt of bids, and on failure to do so agrees to forfeit to Owner the attached cash, cashier's check, certified check, U.S. money order, or bid bond, as liquidated damages for such failure, in the following amount constituting five percent (5%) of the Ductwork Cleaning Bid amount indicated:
    1. Phase 1 - Ductwork Cleaning - \_\_\_\_\_ Dollars (\$\_\_\_\_\_).
  - d. **See attached revised form.**
4. 004322 Unit Prices
  - a. ADD: 1.3, K: Unit Price No. A-10: Fireproofing patches at existing steel beams
    1. **See attached revised form**

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5. 004373 Proposed Schedule of Values Form
  - a. CHANGE 1.1, B as follows:
    1. A completed Proposed Schedule of Values form is required to be submitted no later than five days prior to the Pre-Construction Conference meeting date.
6. 011000 Summary
  - a. CHANGE: 1.8,B,1 as follows:
    1. Remove word "To" before Forte.
  - b. CHANGE: 1.5, B, 1 as follows:
    1. Phase 1: West Hearing Rooms 1524, 1525, Meeting Room 1126 and Storage 1126V.
      - a. The four Phase 1 priority rooms shall be kept "as is" and available for use from the beginning of Phase 1 until after use of Hearing Rooms for legislative purposes is completed, which is anticipated to be April 1, 2019. After that date, the construction team would have the rest of Phase 1 to renovate these four Phase 1 Priority Rooms.
  - c. CHANGE: 1.12,B,2 as follows:
    1. Hours for Utility Shutdowns: The following guidelines and dates are issued for the Contractor's information and any clarifications to these guidelines shall be made with the Architect.
      - a. The weekend timeframe is indicated as 6:00 PM Friday through 10:00 PM Sunday. Power outages scheduled for weekends shall occur during this time period.
      - b. OCC does not want to shut down power during active 2019 session committee hearings nor when they are debating on the floor or to interrupt the sessions of the Supreme and Appeals Courts.
      - c. The OCC will provide the Contractors with schedules of both the Legislature and Courts once they are known...which typically occurs in December of each year for the upcoming Legislative session which always starts early in January. The 2019 Session will be 90 working days where the session will last until the end of May. The Courts (Supreme and Appeals) calendar of hearings are typically set in the spring of each year for the following years sessions (i.e. set in May '18 for the Court sessions in Calendar '19). Generally the Courts meet the first and third weeks of each month, but they can vary depending on caseloads. The Courts are typically recessed during June thru August each summer.
      - d. The following dates are weekends when the Capitol is currently scheduled to be busy through 2019 for either an "EVENT" or an open "THREE DAY HOLIDAY".

<u>2018</u>	
1) July 7	EVENT
2) July 14	EVENT
3) August 18	EVENT
4) September 1	EVENT
5) September 3	THREE DAY HOLIDAY
6) October 8	THREE DAY HOLIDAY
7) November 12	THREE DAY HOLIDAY
8) November 24	EVENT

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- 9) December 1 EVENT
- 10) December 9 EVENT

## 2019

- 1) January 21 THREE DAY HOLIDAY
- 2) February 18 THREE DAY HOLIDAY
- 3) March 30 EVENT
- 4) April 1 EVENT
- 5) May 5 EVENT
- 6) May 27 THREE DAY HOLIDAY
- 7) September 2 THREE DAY HOLIDAY
- 8) October 14 THREE DAY HOLIDAY
- 9) November 11 THREE DAY HOLIDAY
- 10) December 8 EVENT

- d. CHANGE 1.14, I by adding the following sentence to the end of the paragraph:
    - 1. See 0041 13 Bid Form for bid submission instructions.
  - e. CHANGE 1.14, J by adding the following sentence to the end of the paragraph:
    - 1. See 0041 13 Bid Form for bid submission instructions.
7. 013200 Phase A, B and 1 Construction Schedule
- a. CHANGE: "P1 Hearing Room Construction Start" to read as "Phase 1 Priority Room Construction Start"
8. 012200 Unit Prices
- a. ADD: 3.1, J: Unit Price No. A-10: Fireproofing patches at existing steel beams
    - 1. Description: Patch the existing missing fireproofing at the existing steel beams.
      - a. Cost shall be based on assumed amount of a 75 existing patches to include the areas of the 2<sup>nd</sup> floor attic and 3<sup>rd</sup> floor.
    - 2. Quantity Allowance: Coordinate unit price with allowance adjustment requirements in Section 012100 "Allowances."
9. 012300 Alternates
- a. CHANGE: 3.1, B Alternate No. 2: Kitchen Alternate
    - 1. Base Bid: NO CHANGES
    - 2. Alternate: All Kitchen/Cafeteria Casework and equipment not including the basement freezer and cooler shall be included as part of Alternate No 2. *All items furnished by owner and set in place by GC and all other associated work, as indicated on the kitchen equipment schedule shall be installed as part of Alternate No 2. Kitchen equipment furnished and set in place by FSEC (foodservice equipment contractor) as indicated on the kitchen equipment schedule is NIC and shall be provided directly by the Owner.*
10. 012900 Payment Procedures
- a. CHANGE 1.5, A, 2 as follows:
    - 2. Submit the schedule of values to Architect at earliest possible date, but no later than 5 days before the date of the Preconstruction Meeting.
11. 015000 Temporary Facilities and Controls
- a. ADD to 3.3, E, 10 the following sentence: "Internet service shall be provided through a third party provider."

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12. 040310 Historic Masonry Cleaning
  - a. CHANGE: Remove paragraph 2.1 PAINT REMOVERS in its entirety.
  - b. CHANGE: Remove paragraph 3.0 PAINT REMOVAL in its entirety.
13. 078413 Penetration Fire stopping
  - a. CHANGE: 3.7, A as follows:
    - A. Existing Fireproofing Patching and Repair Mortar. Fire-resistant mortar suitable for patching existing cementitious fireproofing at existing steel structure that has been removed to facilitate new ductwork and pipe hangers as well as any damage created by new construction.
      1. Basis of Design: Hilti Firestop Mortar (CP 637).
  - b. CHANGE: 3.7, B as follows:
    - B. Penetrations and Openings in all floors: Provide any fire stopping product indicated to seal penetrations at all floors for piping, conduit, ductwork etc. Coordinate with mechanical and electrical documents of additional details.
14. 090320 Historic Treatment of Plaster
  - a. CHANGE: 1.8, A, 3 as follows:
    3. Eliminate this item from ACTION SUBMITTALS if the products specified are the ones being used.
15. 099123 Interior Painting
  - a. CHANGE: 3.8. Add the following paint system for painting previously painted calcimine paint surfaces. This system can be used on multiple substrates including brick masonry, clay tile masonry, concrete and CMU.
    1. Alkyd Calcimine Recoating System with moisture vapor barrier topcoat.
      - a. Prime Coat: Alkyd flat paint, MPI #49.
        - 1) Benjamin Moore - Super Spec Alkyd Calcimine Recoater Type 306.
      - b. Intermediate Coat: Moisture Vapor Barrier, matching topcoat.
      - c. Topcoat: Latex Finish, Moisture Vapor Barrier Paint.
        - 1) Sherwin Williams Interior Latex Primer/Finish Moisture Vapor Barrier Paint (MPI Gloss Level 4).

## DRAWINGS

1. AG4.5 P1-4: Typical Building Sections and Soffit Types
  - a. Detail 14
    1. CHANGE the following sentence of the detail note to read as follows: "EXISTING STEEL BEAMS WITH FIREPROOFING. INSTALL NEW FIREPROOFING PATCHING AT *all* NEW WORK AREAS. *Patch all existing missing fireproofing areas.* 078413 FIRESTOP MORTAR."
2. A9.1: Preservation Spaces Cafeteria with Kitchen Plans
  - a. General Kitchen and Cafeteria Notes
    1. CHANGE Note A to read as:
      1. All architectural work (floors, walls and ceilings) plus MEP work including rough-ins for all equipment shall be included in base bid. All kitchen equipment and casework will be part of Alternate 2, see sheets ALT-2 FS100/P1, ALT-2 FS101/P1, AND ALT-2 FS200/P1. Kitchen equipment furnished and set in place by FSEC (foodservice equipment contractor) as indicated on the kitchen

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equipment schedule located on sheet ALT-2 FS200/P1 is NIC and shall be provided directly by the Owner.

2. For clarification, all of the FSEC information (NIC) has been provided on the dwgs and within the specs for coordination of the base bid rough in requirements.
3. A1.0 PA: Basement plans, demo plans, and door schedule
  - a. Door Schedule: Phase A
    1. Door Number D40B: ADD Comment note: "Remove the existing door and frame in its entirety by cutting the tack welds at the perimeter surrounding steel jamb. Reinstall the existing door and frame in its original configuration and welded connection locations. Patch all of the existing primer and paint in kind."

**END OF ADDENDUM**

## Phase 1, A & B -- Pre-Bid Conference and Building Tour Sessions

### Pre Bid Meeting 9:00-11:00 AM Hearing Room 1504C

1. Sign In Sheets
  - a. Mandatory Requirements
2. Introduction of Owner and Design Team
  - a. Contact Protocol
    - i. General Project / Windows / Architectural - *BVH Architecture: Julie Cawby*
    - ii. Electrical / Fire Alarm - *Alvine Engineering: Gene Neemann*
    - iii. Mechanical / Fire Protection - *Alvine Engineering: Paul Baumann*
    - iv. Hazardous Materials - *OCC: Clark DeVries*
    - v. Commissioning - *M.E. Group/Forte: Ryan Tushner*
3. Owner's opening remarks
4. Pre-Qualified Bidder List
  - a. Process and dates (Mid Oct to Mid Dec 2017)
  - b. Submitted Contractor teams from each company shall be maintained
5. Project Overview
  - a. SBI importance
  - b. Main elements of the Project
    - i. General Construction Phase areas (current and future)
      1. Current construction of Phases A,B&1 of 5 total
    - ii. Construction areas will not be occupied, except for Basement
    - iii. 3 volumes of drawings, multiple project manuals
  - c. Bidding Schedule (01 32 00)
    - i. Construction Schedule / Requirements
    - ii. Priority Rooms
    - iii. Hearing Room Access
    - iv. Phased Completion
6. Project Manual
  - a. Bid form - Phased bids under 1 overall total bid under 1 GC
  - b. Addendums
  - c. Allowances
  - d. Unit Prices
  - e. Alternates
7. Contractor parking / P1 site access / Designated Office
  - a. Security - See General Conditions Section 00 72 00
8. Building Protection Requirements
  - a. BVH to indicate drawing requirements
  - b. OCC summary of importance
9. Hazardous Material work
  - a. OCC to provide summary
10. Common items for coordination:
  - a. Mechanical overview - New Fan coil install methodology
    - i. Core drilling / pathways B to 1, 1 to 2 (Courtyard side vs Street side)

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- b. Responsibility of core drills
  - c. Responsibility of floor cuts
  - d. Responsibility of Equipment Pads
  - e. Access doors
  - f. Access to work spaces
  - g. Fire-rated wood
  - h. Summary lists review
  - i. Commissioning
11. Review of Documents (Highlights of scope)
- a. Phase A-1 Vol 1 – General
    - i. Architectural / Windows / Structural overview
  - b. Phase A-1 Vol 1 – Phase A
    - i. Electrical, Architectural, Structural overview
  - c. Phase A-1 Vol 1 – Phase 1
    - i. Architectural, Food Service, Structural overview
  - d. Phase A-1 Vol 2
    - i. Mechanical / Electrical / Fire Protection systems
  - e. Phase B
    - i. Overview / Future Construction items
    - ii. Civil and Landscape
    - iii. Mechanical and Geothermal Wellfield
    - iv. Structural
    - v. Electrical
12. Questions

**Break** 11:00 AM-1:00 PM

## **Concurrent Tour Sessions**

**Each of the 3 Tours by Discipline/topic will be available at each date and time listed below**

1. May 1st 1:00 – 2:45 PM
2. May 1st 3:00 – 4:45 PM
3. May 7<sup>th</sup> 9:00 – 10:45 AM
4. Sign-in is required for all attendees of every tour
5. Questions: Insure any questions are provided to the tour docents for inclusion of formal responses

## **Concurrent Tour General Contractors / Windows / Architectural / Hazardous Materials**

Led by BVH Architecture

Meet at Hearing Room 1504C

## **Concurrent Tour Electrical**

Led by Alvine Engineering

Meet at First Floor Center Information Desk

## **Concurrent Tour Mechanical / Fire Protection / Fire Alarm**

Led by Alvine Engineering

Meet at South Dock Entry at Basement Level

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## SIGN IN SHEET - PRE BID MEETING

May 1, 2018

NE State Capitol HVAC Replacement and Window Restoration Project  
 BVH Project L14077 / OCC Project 201405

	NAME	COMPANY	ATTENDANCE YES / NO	EMAIL
1.	Dan Worth	BVH Architecture	YES	dworth@bvh.com
2.	Julie Cawby	BVH Architecture	YES	jcawby@bvh.com
3.	Greg Munn	BVH Architecture		gmunn@bvh.com
4.	Jon Wiles	BVH Architecture		jwiles@bvh.com
5.	Garrett Peterson	BVH Architecture		gpeterson@bvh.com
6.	Steve Kelley	SJK - Historic Pres		steve@kelleyaia-se.com
7.	Steve Alvine	Alvine Engineering	Yes	salvine@alvine.com
8.	Paul Bauman	Alvine Engineering	Yes	pbauman@alvine.com
9.	Gene Neemann	Alvine Engineering	Yes	gneemann@alvine.com
10.	Nick Bernard	Alvine Engineering	NO	nbernard@alvine.com
11.	Mike Eisenbarth	R. O. Youker, Inc.		mike@royouker.com
12.	Jeff Pankoke	R. O. Youker, Inc.	YES	jeff@royouker.com
13.	Mark Otte	R. O. Youker, Inc.	YES. NO	mark@royouker.com
14.	Frank Doland	Alfred Benesch & Co.	YES	fdoland@benesch.com
15.	Justin Magill	Forte Building Science, ME Group		Justin.Magill@megroup.com
16.	Ryan Tushner	Forte Building Science, ME Group		Ryan.Tushner@megroup.com

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	NAME	COMPANY	ATTENDANCE YES / NO	EMAIL
17.	Bob Ripley	Office of the Capitol Commission (OCC)	YES	bob.ripley@nebraska.gov
18.	Clark DeVries	Office of the Capitol Commission (OCC)	YES	clark.deVries@nebraska.gov
19.	Matt Hansen	Office of the Capitol Commission (OCC)	YES	matt.hansen@nebraska.gov
20.	Mark Tonjes	Office of the Capitol Commission (OCC)	YES	mark.tonjes@nebraska.gov
21.	Brett Daugherty	Office of the Capitol Commission (OCC)	yes	brett.daugherty@nebraska.gov
22.	Mike Jordan	Office of the Capitol Commission (OCC)	YES	michael.jordan@nebraska.gov
23.	JOE KONEN	ALVINE ENGINEERING	Yes	JKONEN@alvine.com
24.	TAMMY HANON	OCC	YES	
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## SIGN IN SHEET - PRE BID MEETING

May 1, 2018

NE State Capitol HVAC Replacement and Window Restoration Project  
 BVH Project L14077 / OCC Project 201405

	NAME	COMPANY	PHONE	EMAIL
1.	Don Petri	Kidwell	402-493-7983	dpetri@kidwellinc.com
2.	Tim Jones	Kidwell	402-473-7760	tjones@kidwellinc.com
3.	DAN MONTY	BVH	402-495-4551	DANMONT@BVH.COM
4.	AARON KENNINGS	NIECO	402-477-0666	akennings@niemechanical.com
5.	Mark Leue	NIECO	477-0666	mlaue@niemechanical.com
6.	Brian Bovin	ESA	516-204-5289	brian.bovin@esa-solutions.com
7.	Dustin Klein	Midlands Mechanical Inc.	308-440-6346	dklein@midmechinc.com
8.	Derek Casey	Midlands Mechanical Inc.	402-662-6975	Dcasey@midmechinc.com
9.	Tina Wilkowsky	Bockmann Inc	402-610-2309	tinaw@bockmanninc.com
10.	Meagan Willoughby	MMI	402-450-3050	meaganwilloughby@hotmail.com
11.	Brian Larson	Rutts Htg/Ac	402-432-7526	blarson@ruttsheating.com
12.	Jill Spdik	ES Commercial Services	402-610-5436	jillss@seval.com

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440 N 8th St, Ste 100 Lincoln, NE 68508 / 402.475.4551 // 901 Jones St Omaha, NE 68102 / 402.345.3060

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	NAME	COMPANY	PHONE	EMAIL
13.	Craig Jakub	Shanahan/IES	402 784 2381	Craig@shanel.com
14.	Jeff Snelva	Duct+Medic	402 435-3828	JSNELVA@DuctMedic.com
15.	Heath Koppa	General Fire	402-556-6160	heathk@gsomaha.com
16.	Jason McDonald	General Fire	402-556-6160	jasonm@gsomaha.com
17.	Chris Sills	MMI	402 984-7485	CSills@condemncor.com
18.	Tommy	Engineered Controls	402-409-7457	tommy@engineeredcontrols.com
19.	Jeremy Reiter	Engineered Controls	402 434 3110	reiter@engineeredcontrols.com
20.	Sean Smith	Earth Services & Technology	515 290 9285	sean.smith@esstf.com
21.	Andrew Johnson	Continental Fire Sprinklers	402 330 5170	andrew.johnson@continental-fire.com
22.	Randy Nilsen	General Excavating	402 440 4084	randyn@generalexcavating.com
23.	MARK CLARKE	JCF	402-489-2894	MARK.A.CLARKE@JCF.com
24.	JEFF SCHENBERG	JOHNSON CONTRACTORS	402-957-4903	JEFF@SCHENBERG.COM
25.	SCOTT LANE	JCI	402-981-0756	SCOTT.LANE@JCI.COM
26.	COREY THOMAS	FISHNY RESTORATION	913-710-6121	CTHOMAS@FISHNY.COM

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	NAME	COMPANY	PHONE	EMAIL
27.	AL ROYHAKOS	JOHNSON BOYD	402-891-5834	alroyhako@jb.com
28.	Michael Shandera	Johnson Controls	402-540-1636	michael.l.shandera@jci.com
29.	ROBERT BRUEGEMAN	CCE	402-437-4660	rbruegema@cce-ne.com
30.	JOHN ERICH	CCE	402-610-3086	jerich@cce-ne.com
31.	Shawn Meneel	CCE	402-420-7435	smeneel@cce.com
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PPE BID SIGN IN SHEET

	NAME	COMPANY	PHONE	EMAIL
41.	Chris Bockmann	Bockmann Inc	402-610-2338	chrb@bockmanninc.com
42.	Kelly Scherer	Kidwell	402-817-3475	kscherer@kidwellinc.com
43.	Adam Mori	Boyd Jones	402/550-1806	amori@boydjones.biz
44.	Michael Bures	Boyd Jones	402-550-1783	mbures@boydjones.biz
45.	Mark Halbert	TWC	402-537-4754	mark.halbert@twcbuilding.com
46.	Curt Sander	TWC		curt.sander@twcbuilding.com
47.	Tom Tharcke	Summit Fire	402-676-7207	tharcke@summitfire.com
48.	Tom Santillan	H&S Plumbing	402-421-1573	tsantillan@hsphe.com
49.	ROEBECK HANSEN	H&S Plumbing/HEATING	402-421-1573	rhansen@hsphe.com
50.	CHRIS FOGDEN	KINGSTON CONSTRUCTION	402-465-9400	chrisf@kingstoncon.com
51.	Drew	Leupold P&S	402-516-2332	drew@leupoldps.com
52.	MAKEL RILEY	Kingston Const.	531 402-739-9511	makel@kingstonbuilders.com
53.	Tom Boardman	K2	402-967-2355	tom@k2const.com
54.	Robert Bradley	H&S	402-525-2786	rob@hsphe.com

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	NAME	COMPANY	PHONE	EMAIL
55.	Jon Eicher	ABC Electric	402-435-3514	jon@abc electric.net
56.	STERRY STRICKER	PAUL KESS	402-316-4624	STERRY@PAULKESS.COM
57.	Dave Chapman	William Electric	(402) 464-1877	djc@william-electric.com
58.	Dan Williams	William Electric	402-990-8680	dwilliams@william-electric.com
59.	Jeff Dush	Gregg Electric Co.	402-476-6463	jeff@greggelectric.net
60.	Frank Dush	Bess Electric Co	402-476-6463	frank@bess electric.net
61.	Ben Richter	Sampson Construction	402-434-5450	Ben.Richter@Sampson-Construction.com
62.	Chris Estad, III	Force Equipment	402-619-0524	chris@forceequip.com
63.	Math Miller	Hausmann Construction	402-438-3230	math@hausmannconstruction.com
64.	Rae Gorn	Paul L. Kess	402 890-3023	rgorn@paulkess.com
65.				
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# BVH ARCHITECTURE

	NAME	COMPANY	PHONE	EMAIL
69.	Harsh Sieck	HES	402-421-1573	h.sieck@hsphe.com
70.	Phil Palko	HIS	402-853-1674	ppalko@hsphe.com
71.	Rod Berens	Kingery	402-465-4400	rodber@kecobuilders.com
72.	Rick Winkowick	Kingery	402-525-8702	rickw@kecobuilders.com
73.	Dan Emken	New Horizons	402-318-6218	dan@newhorizons-llc.com
74.	Brooks Gentemann	REVIEW	816-305-4447	brooks@reviewwindows.com
75.	TODD MAXWELL	REVIEW	816-985-4208	todd@reviewwindows.com
76.	Alex Post	RLK / DEVOUSERS INC.	402-476-0151	apost@paulkess.com
77.	Carl Ewing	SME	402- <del>488</del> -4844	carlewing@smeval.com
78.	Chad Wicks	HCI (Hansmann)	402 318 2419	chadw@hansmannconstruction.com
79.	Mike Chavarr	CPAC, Inc	308-234-3350	pmc@cpac.com michav@cpac.com
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# BVH ARCHITECTURE

1:00

SIGN IN SHEET - PRE BID TOURS: **ELECTRICAL**

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 May 1, 2018 1:00 - 2:45 PM  
 May 1, 2018 3:00 - 4:45 PM  
 May 7, 2018 9:00 - 10:45 AM

NE State Capitol HVAC Replacement and Window Restoration Project  
 BVH Project L14077 / OCC Project 201405

	NAME	COMPANY	PHONE	EMAIL
1.	Jon Eicher	ABC Electric	402-435-3514	jone@abcelectric.net
2.	Dou Petral	Kidwell	402-473-9783	dpetra@kidwellinc.com
3.	Shawn Menci	CCE	402-426-7435	smenci@cce-ne.com
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BVH ARCHITECTURE

440 N 8th St, Ste 100 Lincoln, NE 68508 / 402.475.4551 // 901 Jones St Omaha, NE 68102 / 402.345.3060

# BVH ARCHITECTURE

1:00

	NAME	COMPANY	PHONE	EMAIL
13.	Dan Williams	William Electric	402-990-8680	dwilliams@willmar-electric.com
14.	Dave Chopin	William Electric	402-484-1877	djce@willmarelectric.com
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**BVH**ARCHITECTURE

440 N 8th St, Ste 100 Lincoln, NE 68508 / 402.475.4551 // 901 Jones St Omaha, NE 68102 / 402.345.3060

# BVH ARCHITECTURE

1:00

	NAME	COMPANY	PHONE	EMAIL
27.	Craig Skub	Shanahan / IES	402 610 5453	CraigJ@smvval.com
28.	Kelly Schroe	Kidwell	402-817-3475	KSchroe@Kidwellinc.com
29.	Jeff Dush	Gregg Electric Co.	402- <del>347</del> 476-6463	Jeff@greggelectric.net
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BVH ARCHITECTURE

440 N 8th St, Ste 100 Lincoln, NE 68508 / 402.475.4551 // 901 Jones St Omaha, NE 68102 / 402.345.3060

# BVH ARCHITECTURE

1:00

	NAME	COMPANY	PHONE	EMAIL
41.	Tim Jones	KIDWELL	402-610-3672	tyones@kidwellinc.com
42.	John Eirich	CCE	402-610-5686	jeirich@cce-ne.com
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**BVH**ARCHITECTURE

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# BVH ARCHITECTURE

SIGN IN SHEET - PRE BID TOURS: **ELECTRICAL**

NE State Capitol HVAC Replacement and Window Restoration Project

BVH Project L14077 / OCC Project 201405

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<u>X</u>	May 1, 2018	3:00 - 4:45 PM
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	NAME	COMPANY	PHONE	EMAIL
1.	Doug Anderson	IES Commercial	402-784-2381	doug.anderson@iesct.net
2.	Cameron Jones	IES-SME	402 610-5430	Camj@smeval.com
3.	Mark Ribey	Kinergy		markr@kecobuilders.com
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BVH ARCHITECTURE

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# BVH ARCHITECTURE

SIGN IN SHEET - PRE BID TOURS:

GENERAL CONTRACTORS / WINDOWS

ARCHITECTURAL / HAZARDOUS MATERIALS

NE State Capitol HVAC Replacement and Window Restoration Project

BVH Project L14077 / OCC Project 201405



May 1, 2018 1:00 - 2:45 PM  
 May 1, 2018 3:00 - 4:45 PM  
 May 7, 2018 9:00 - 10:45 AM

	NAME	COMPANY	PHONE	EMAIL
1.	Brooks Clement	RE-VIEW	816-305-4447	brooks@reviewwindows.com
2.	TODD MAXWELL	RE-VIEW	816-985-4208	todd@reviewwindows.com
3.	BRIAN BURKE	ESA	515-204-5889	BRIAN.BURKE@ESASITE.COM
4.	Alex Post	PLC/DEWUMMERS INC	402-476-0151	apost@paulkress.com
5.	Numer Bruce	BOYS TOWERS	402-979-0002	NBRUCE@BOYSTOWERS.BIZ
6.	Mike Glavanu	SPAC	308-234-3350	mic@spac.com
7.	Dan Emken	New Horizons	402-318-6218	dan@newhorizons-llc.com
8.	Rick Winkert	Kingsway Construction Co	402-465-9400	rick@kwcobuilders.com
9.	MIS BOCKMANN	BOCKMANN INC	402-610-2338	carol@bockmanninc.com
10.	CORY THOMAS	PISHNY RESTORATION	913-710-6121	CTHOMAS@PISHNY.COM
11.	Matt Miller	Hausmann Construction	402-438-3230	matth@hausmannconstruction.com
12.				

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# BVH ARCHITECTURE

SIGN IN SHEET - PRE BID TOURS: **GENERAL CONTRACTORS / WINDOWS**  
**ARCHITECTURAL / HAZARDOUS MATERIALS**  
 NE State Capitol HVAC Replacement and Window Restoration Project  
 BVH Project L14077 / OCC Project 201405

May 1, 2018 1:00 - 2:45 PM  
 May 1, 2018 3:00 - 4:45 PM  
 May 7, 2018 9:00 - 10:45 AM

	NAME	COMPANY	PHONE	EMAIL
1.	Ferrina Willaver	Beckmann Inc.	(402) 610-2309	ferrina@beckmanninc.com
2.	Margan Willoughby	UNL	(402) 450-3050	margan.willoughby@hotmail.com
3.	Jill Sydik	FES / SME	402-610-5436	jills@smel.com
4.	Mike Sniarski	FES / SME	402 784 2381	mike@smel.com
5.	Ben Richter	Samson construction	402-434-5450	ben.richter@samson-const.com
6.	Carl Ewing	Shenburn NE	402-480-4844	carlewing@smel.com
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# BVH ARCHITECTURE

SIGN IN SHEET - PRE BID TOURS: MECHANICAL / FIRE PROTECTION / FIRE ALARM

May 1, 2018 1:00 - 2:45 PM  
 May 1, 2018 3:00 - 4:45 PM  
 May 7, 2018 9:00 - 10:45 AM

NE State Capitol HVAC Replacement and Window Restoration Project  
 BVH Project L14077 / OCC Project 201405

	NAME	COMPANY	PHONE	EMAIL
1.	JEFF SCHOMBBERG	Johnson Controls	402-957-4903	JEFFREY.A.SCHOMBBERG@JCI.COM
2.	Todd Schmitt	Engineered Controls	402-484-2100	tschmitt@engineeredcontrols.com
3.	Lucas Byle	Hausmann	402-388-2409	lucase@hausmannconstruction.com
4.	Heath Kohle	General Fire	402-576-6100	heathk@gtomaha.com
5.	Jason McDonald	General Fire	402-576-6100	jasonm@gtomaha.com
6.	Jeremy Reiter	ENGINEERED CONTROLS	402-434-2110	jreiter@engineeredcontrols.com
7.	Frank Dush	Gregg Electric	402-476-6463	FrankofGreggElectric@att.net
8.	Phil Pedu	HIS	402-853-1174	ppedu@hisp.com
9.	Tom Southman	HES	402-421-573	tsouthman@hysph.com
10.	POD HANSEN	HES	"	phansen@hysph.com
11.	Tom Thatcher	Summit	402-676-7707	T Thatcher@SummitPDS.com
12.	AL RICHARDS	Johnson Controls	402-891-5834	alrichards@jci.com

# BVH ARCHITECTURE

5/11/2018  
 MESA/FP/EA  
 19th

	NAME	COMPANY	PHONE	EMAIL
13.	Carol Ewing	Shawhan ME	402-430-4844	carlewing@smvel.com
14.	Michael Snow	SME	1108 784-2381	m.ksnow@smvel.com
15.	Jim Sodik	TIS/SME	402-610-5436	jms@smvel.com
16.	Michael Shandora	Johnson Controls	402-540-1636	michael.L.Shandora@jci.com
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BVH ARCHITECTURE

440 N 8th St, Ste 100 Lincoln, NE 68508 / 402.475.4551 // 901 Jones St Omaha, NE 68102 / 402.345.3060

# BVH ARCHITECTURE

5/11/2018  
M/FP/EA 1 PM Team

	NAME	COMPANY	PHONE	EMAIL
27.	KURT SANDER	MANSURER	402-616-4221	KURT.SANDER@WALAWER.COM
28.	MARK HUBERT	WALSWER	402-339-2666	MARK.HUBERT@WALSWER.COM
29.	Brian Larson	BUTTS HTG/AC	402-432-7506	blesson@buttshtg.com
30.	Dustin Klein	Midlands Mechanical Inc	308-446-6346	dKlein@midmechinc.com
31.	<del>MARK CLARK</del>	JCF	402-689-5894	
32.	Rick Edwards	Kingery	402-465-4400	rick@kccbuilders.com
33.	Scott Kiriliv	CARRIER	402-431-3360	Scott.Kiriliv@carrier.com
34.	Henry Kurik	MIDLANDS DUCT CLEAN	402-555-8440	
35.	Adam Mar	Boyd Jones	402-550-1506	adam@boydjones.biz
36.	Scott Lane	ITi	402-981-0756	scott.lane@isci.com
37.	<del>AMERSON</del> Jones	SME-IES	402-616-5430	amj@smel.com
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# BVH ARCHITECTURE

SIGN IN SHEET - PRE BID TOURS: MECHANICAL / FIRE PROTECTION / FIRE ALARM

NE State Capitol HVAC Replacement and Window Restoration Project

BVH Project L14077 / OCC Project 201405

May 1, 2018 1:00 - 2:45 PM  
 May 1, 2018 3:00 - 4:45 PM  
 May 7, 2018 9:00 - 10:45 AM

	NAME	COMPANY	PHONE	EMAIL
1.	JEFF SWENSON	DuctMEDIC	402-435-3828	JSWEN@DuctMedic.com
2.	Mark Laska	NFECO	477 0666	mark@nfeconstruction.com
3.	ARSON KENNINGS	NFECO	402-477-0666	arsoning@nfeconconstruction.com
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BVH ARCHITECTURE

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# BVH ARCHITECTURE

5/11/18 3PM  
Mark P/P/EA

	NAME	COMPANY	PHONE	EMAIL
27.	Craig Sakub	Shraham / TEs	402 610 5453	Craig@smemel.com
28.	Rick Jintawate	Kingery Construction	402.965-9400	rick@kccabuilders.com
29.	Dan Petru	Kidwell	402-473-7783	dpetru@kidwellinc.com
30.	Tom Jones	Kidwell	402-610-3672	tjones@kidwellinc.com
31.	Kelly Schmed	Kidwell	402-817-3475	Kschmed@kidwellinc.com
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BVH ARCHITECTURE

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# BVH ARCHITECTURE

SIGN IN SHEET - PRE BID TOURS: ELECTRICAL

NE State Capitol HVAC Replacement and Window Restoration Project

BVH Project L14077 / OCC Project 201405

\_\_\_\_\_ May 1, 2018 1:00 - 2:45 PM  
 \_\_\_\_\_ May 1, 2018 3:00 - 4:45 PM  
 May 7, 2018 9:00 - 10:45 AM

	NAME	COMPANY	PHONE	EMAIL
1.	Carson Jones	IES - SME	(402) 610-5430	carj@smeva.com
2.	Craig Sakub	IES / SME	402 610 5453	craig@smeval.com
3.				
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BVH ARCHITECTURE

440 N 8th St, Ste 100 Lincoln, NE 68508 / 402.475.4551 // 901 Jones St Omaha, NE 68102 / 402.345.3060

# BVH ARCHITECTURE

	NAME	COMPANY	PHONE	EMAIL
13.	Brad Palensky	IES-Suite	308-991-3608	brad.palensky@iesci.net
14.				
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# BVH ARCHITECTURE

	NAME	COMPANY	PHONE	EMAIL
27.	Rick Wintermute	Kingery Construction Co	402-465-4400	rick@kccbuilders.com
28.	Robert Bruegman	Capital City Bldg.	402-427-4660	rbruegman@cce-ne.com
29.				
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# BVH ARCHITECTURE

	NAME	COMPANY	PHONE	EMAIL
41.	Dow Petri	Kidwell	402-473-2783	dpetri@kidwellinc.com
42.	Spica Armstrong	Heavy Company	(402) 435-1234	Tracy@heavycompany.com
43.				
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# BVH ARCHITECTURE

SIGN IN SHEET - PRE BID TOURS:

GENERAL CONTRACTORS / WINDOWS

ARCHITECTURAL / HAZARDOUS MATERIALS

NE State Capitol HVAC Replacement and Window Restoration Project

BVH Project L14077 / OCC Project 201405

\_\_\_\_\_ May 1, 2018 1:00 - 2:45 PM  
 \_\_\_\_\_ May 1, 2018 3:00 - 4:45 PM  
~~\_\_\_\_\_~~ May 7, 2018 9:00 - 10:45 AM

	NAME	COMPANY	PHONE	EMAIL
1.	Cameron Jones	IES-SME	(402) 610-5430	camj@smeval.com
2.	Brad Palensky	IES-SME	(308) 991-3650	brad.palensky@iesci.net
3.	Craig Sakub	IES/SME	402 610 5453	craigj@smeval.com
4.	Dylan Lose	Dako	430-774-461	dylan@dakoservices.com
5.	CHARLE FOX	Dako SERVICES	630 429 4017	cf@dakoservices.com
6.	John Zapata	Midwest Demol	730-8866	
7.	Dave Howell	Control Services	402-339-4344	dhowell@controlservices
8.	Chris Cedarburg	Midwest Demolition	402-475-1600	cederburg@midwestdemo.com
9.	BEN HUCK	SAMPSON CONST.	402-434-5418	ben@samprson-construction.com
10.	Dick Stoffel	Boyd Jones	402-550-1802	dstoffel@boydjones.biz
11.	Adam Mann	Boyd Jones	402-550-1806	amann@boydjones.biz
12.	Harvey Brewster	Boyd Jones	402 637 8040	hbrewster@boydjones.biz

BVH ARCHITECTURE

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*Z*

# BVH ARCHITECTURE

	NAME	COMPANY	PHONE	EMAIL
13.	Tim Meyer	Boyd Jones	402-550-1795	tmeyer@boydjones.biz
14.	Mark Riley	Kinney	531-739-9511	mark@kicobuilders.com
15.	CHRIS FOLGIO	HILGEMAN	531-739-9326	CHRIS.FOLGIO@HILGEMAN.COM
16.	MATT SPOONER	Paul L. Kess Inc.	402-476-0151	MSPONER@PAULKESS.COM
17.	ALEX POST	PAUL KESS/DEWPUSS INC.	402-476-0151	APOST@PAULKESS.COM
18.	Rene Gomez	Paul Kess	402-476-0151	rgomez@paulkess.com
19.	TIM JACOBSEN	ATC	402-320-8396	tim.jacobsen@ATCGS.COM
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22.	(NOTE: GIVE LIMITED ACTUALLY ATTENDED MEET OR EVENT			
23.	TOUR AND MAY SHOW UP TWICE)			
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BVH ARCHITECTURE

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# BVH ARCHITECTURE

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May 1, 2018 1:00 - 2:45 PM

May 1, 2018 3:00 - 4:45 PM

May 7, 2018 9:00 - 10:45 AM

NE State Capitol HVAC Replacement and Window Restoration Project

BVH Project L14077 / OCC Project 201405

	NAME	COMPANY	PHONE	EMAIL
1.	Matt Miquel	Integrated Controls	402-853-3709	matt@icontrols.us
2.	Roderick Hansen	HRS Plumbw/HATING	402-421-1573	rhansen@hsphc.com
3.	Tom Santillan	H's Plumbing	402-421-1573	tsantillan@HSPhc.com
4.	John Fitzgerald	MNO	402-510-2002	John@NationalConcreteCutting.com
5.	Chris Estudillo	Force Equipment	402-619-0526	chris@forceequip.com
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BVH ARCHITECTURE

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# BVH ARCHITECTURE

5/7/18 9 AM

Mark/FP/PA

	NAME	COMPANY	PHONE	EMAIL
13.	Jeff Swelsh	DuetMetric	402- <del>402</del> -4100	JSwelsh@duetmetric.com
14.	Jim Auvart	McComicks Hunk	402 363 4591	McComicksHunk@qwest.com
15.	Andrew Johnson	Continental Fire Sprinkler	402 720 8748	andrew.johnson@continental-fire.com
16.	Carl Ewing	Sharonahon MTE	402-430-4844	carle@shonahon.com
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# BVH ARCHITECTURE

5/7/18 9AM  
M/FP/FA

	NAME	COMPANY	PHONE	EMAIL
27.	Alexa Talbot	Midwest Demolition	402 475 1500	atalbot@midwestdemo.com
28.	STANIS WURER	HARTS MECHANICAL	402-329-2960	stueper@hartsmechanical.com
29.	Joe Jaeck	Comerstone	402-510-8055	JJAeck@JREKcorp.com
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# BVH ARCHITECTURE

5/7/18 9 AM  
M/EP/EN

	NAME	COMPANY	PHONE	EMAIL
41.	Donna Howell	Control Services	402 339-4344	dhowell@controlservices.com
42.	Debra Schlemmer	Control Services Inc	402 439 1609	dischurman@controlservices.com
43.	Randy W. Donald	General Excavating	402-467-1627	rwdonald@genelexcavating.com
44.	DAN BARETT	ECI	402-379-1300	dborrett@engineerscontrols.com
45.	Jeremy Reiter	ECI	402 434 8110	jreiter@engineerscontrols.com
46.	Tom Hatcher	Summit Companies	402-676-5707	thatcher@summit.com
47.	KURT SANDER	THE WANDINGER CORP	402-616-4221	KURT.SANDER@WANDINGER.COM
48.	Todd Schmidt	Eng Control	402-434-2110	tschmidt@engineerscontrols.com
49.	Regg Rutt	Rutts Heating & AC	402-467-4853	rrutts@ruttsheating.com
50.	Brian Larson	Rutts Htg/AC	402-432-7506	blarson@ruttsheating.com
51.	Debra Casey	Midlands Mechanical	402-612-6975	dcasey@midmedicine.com
52.	Ryan Peterson	Platte Valley Co.	402-610-3765	ryanp.pvc.iss@simil.com
53.				
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## BVH ARCHITECTURE

440 N 8th St, Ste 100 Lincoln, NE 68508 / 402.475.4551 // 901 Jones St Omaha, NE 68102 / 402.345.3060

*This addendum is hereby made a part of the contract documents to the same extent as though it were originally included therein. Specifications and drawings shall be considered modified or revised as hereinafter described. Revisions to the drawings are referenced by the drawing number.*

### Changes to the Project Manual

#### Mechanical Specification Items:

#### 2MS1. Section 232214 – Steam and Condensate Heating Specialties

1. Page 232214 – 1, Article 1.2: Add the following paragraph:

“E. Thermostatic Radiator Valves

2. Page 232214 – 4: Add the following article:

#### “2.5 THERMOSTATIC RADIATOR VALVES

##### A. Manufacturers:

1. Danfoss.
2. Honeywell Braukmann.
3. Watts.
4. Armstrong.

##### B. Thermostatic Radiator Valves:

1. Radiator control valves for free-standing radiators not controlled by manual radiator isolation valves shall be controlled through a thermostatic radiator valve conforming to ASHRAE and ANSI Standard 102-1983. Valves shall be a two-part assembly consisting of brass valve body and thermostatic operator to automatically regulate the flow of low pressure steam to maintain space temperature. Valves shall be packaged with a packing gland assembly allowing replacement with the steam system in operation. The packing gland shall be fitted with a grease cup to ensure the O-ring packing is lubricated for life. Valve assembly will be provided with an angle FPT x MPT union tailpiece fitted for each radiator to receive this type of valve. Valve shall be provided with an EPDM rubber valve disc providing a positive seal against the valve at a differential pressure of 15 psi. Valves will remain normally open with no operator mounted. Control of space temperature shall be through dial and sensor. Dial shall have a numbered scale of 1 to 5 corresponding to temperatures of approximately 57 deg F to 79 deg F.”

END

MRG-PAB/mdg

29 January 2018

## REPORT ON THE WINDOW RESTORATION MOCK UP PROCEDURE AT THE NEBRASKA STATE CAPITOL



*Figure 1 – The mock up window is inspected and catalogued prior to proceeding with work. A plywood shelf has been installed at the inside sill to protect the stone sill and HVAC system.*

### Introduction

A sample window unit (mock up) was restored at the base of the Nebraska State Capitol to determine the challenges associated with window removal, restoration and reinstallation. The window was removed from the opening on 11 August 2017. In attendance during the window removal were Brett Daugherty, Dan Kratky, Mike Mackichan and Mike Marshall of the Office of the Capitol Commission (OCC); Julie Cawby, Jim Smith, Jon Wiles and Stephen

Kelley of BVH Architecture (BVH); and Brooks Gentleman and Todd Maxwell of Re-View Window and Door Restoration (Re-View). Robert Ripley and Clark DeVries of OCC stopped in to view the work in progress. The window including the sash, frame, and subframe were removed in a single day.

The window components were taken to the shop of Re-View in North Kansas City, MO where the restoration took place.

The mock up was reinstalled on 20 December 2017. In attendance during the window reinstall were the same representatives of the OCC; Julie Cawby, BVH and Re-View. Robert Ripley and Clark DeVries of OCC and Dan Worth of BVH stopped in to view the work in progress. The window was reinstalled in a single day. Perimeter caulking of the windows was left for OCC to complete.

The window that was restored was designated as window W1113 (Type S) and is in Hearing Room 1113 facing northward into the southwest courtyard (Figure 1). This is a typical window type that occurs in Phases 1 through 4 of the upcoming work. The window restoration mock up process will address many but not all of the challenges that will be met during the actual project. It should be anticipated that there will still be unanticipated conditions that will need to be addressed in the field during the project.

### Window Removal Process

The removal process was accomplished in the following sequence:

# BVH ARCHITECTURE

1. Protection was set down on the interior of the window to protect the existing HVAC system and Slate windowsill. Protection was also put down below the window on the outside.
2. All window elements were catalogued and labeled prior to removal. This cataloging included the sash; the operating hardware; the frame components; and the subframe components.
3. Previously broken glass panes were taped on both sides so that the broken pieces of glass would not become loosened and fall out during the window removal process (Figure 2).
4. The brass hardware including the cremones and limiting hardware were removed (Figure 3).
5. With both window sash open, the screws that attached the window frame to the subframe were located and removed (Figure 4). The screws into the sill were found to be corroded while the screws at the head and jambs were in fair condition.
6. Any sealants between the frame and subframe were cut or removed and the entire sash and frame assembly was removed in one piece. All glazing was left in place (Figure 5).
7. The area around the removed window was cleaned of dust, debris and sealants so that the anchors between the subframe and masonry could be uncovered (Figure 6).
8. The ferrous metal anchors connecting the subframe to the masonry were removed (Figure 7). There were six anchors at each jamb and four connectors each at the head and sill. They were screwed into lead plugs that had been inserted into drilled holes into the limestone (Figure 8). In addition, all sealants between the subframe and masonry were cut away.
9. It was found that the subframe could be removed in four separate pieces without

altering the frames in any way. The four pieces are connected by angles at each of the four corners (Figure 9). Since all original plaster work had been completed after the original window installation, we removed a strip of plaster from the left interior jamb (Figure 10). In this manner the jamb of the subframe could be removed inward. The subframe was removed in this sequence: left jamb, head, right jamb, and sill.

10. The head, jamb and sill portions of the subframe were easily removed by pulling them away from the masonry surface to which they were attached (Figures 11 and 12).
11. Once the window assembly was removed from the opening, the opening was closed with wood 2x4s and particle board.



*Figure 2 - The broken pane of glass has been taped so it will remain in place during the removal process. Workers on the outside are removing the perimeter sealant.*

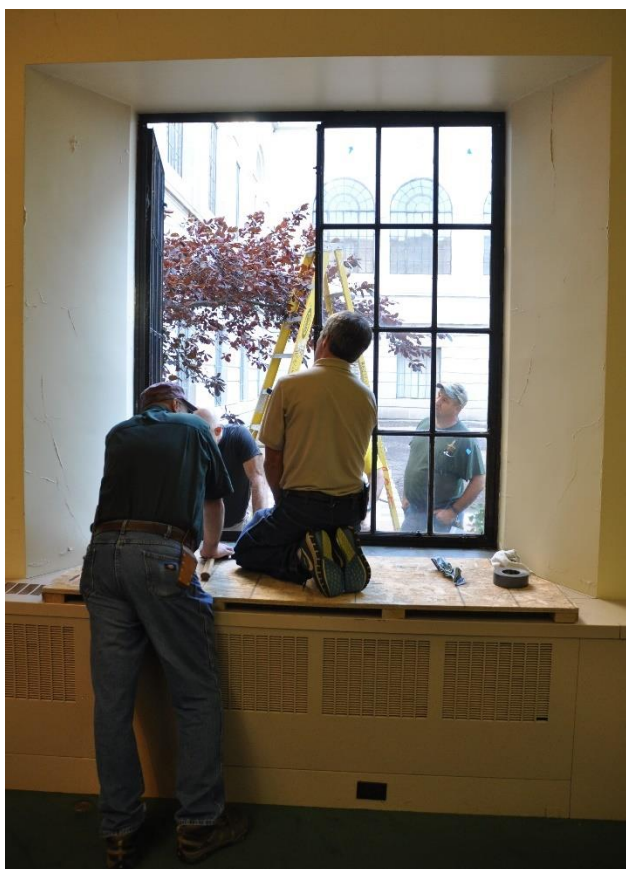
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**Figure 3** - Limiting hardware for the left and right sash have been removed and catalogued for transportation to the shop.



**Figure 5** - The entire assembly composed of the frame into sash were removed in one piece.



**Figure 4** - The limiting hardware and cremones have been removed from the sash and the fasteners between the frame and subframe are being located and removed.



**Figure 6** - The subframe is cleaned with an industrial vacuum cleaner so that the anchor attachments into the masonry wall can be found.



**Figure 7** - The flathead countersunk metal screws attaching the subframe to the masonry beneath are removed by hand.



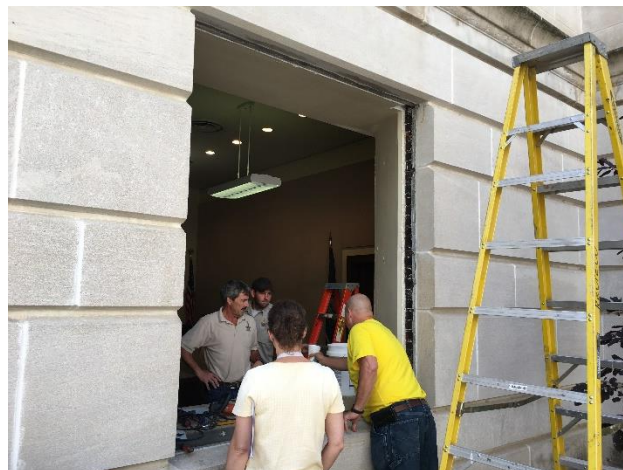
**Figure 8** - The lead sleeve into which the subframe and cover is attached.



**Figure 9** - View of a corner angle that connects the subframe head to one of the subframe jamba.



**Figure 10** - View of the left jamb where a 3-inch-wide strip of plaster has been removed to facilitate the removal of the subframe. Brick is revealed in black.



**Figure 11** - View of the window opening after removal of the sash, frame and subframe.



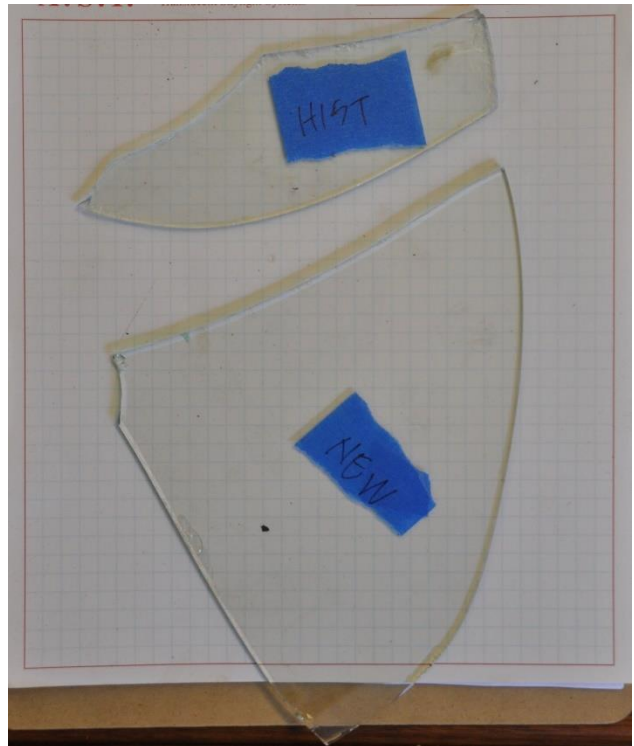
**Figure 12** - The four subframe members have been catalogued and ready to transport to the shop.

## Conditions Observed during Removal

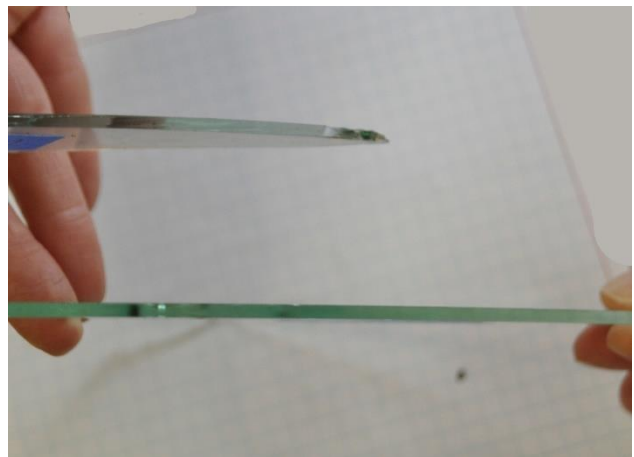
1. Differences were observed between the original and replacement glass. Prior to removal we determined that the original glass and the replacement float glass were of the same thickness but had minor reflectance and transparency differences that could be seen by the trained eye. However, comparing the glass color by looking at the glass edgewise revealed that float glass has a greener cast than the original glass (Figures 13 and 14). The green cast is believed to be caused by increased iron oxide in the float glass.

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2. The brass hardware is in fair to good condition.
3. Corrosion is apparent on the frame and subframe (Figures 15 and 16). This corrosion only occurs at the sill where water would pond during a rainstorm. Frame and subframe components at the head and jamb were in fair to good condition.
4. The hinges are attached to the frames with rivet-type connectors and are not removable without destroying the connectors (Figure 17).
5. The wood blocking in place at the sill was found to be in poor condition (Figure 18). However, the wood blocking in place at the head and jamb were found to be in good to excellent condition (Figure 19).
6. All sealants that were removed from the window systems were found to be in fair to poor condition and have reached the end of their service life.
7. Anchors and lead plugs were used to connect the subframes to the masonry. The anchors were found to be in fair condition while the lead plugs were in excellent condition (Figure 20). However, in several instances the lead plug had been inserted into a hole in the limestone that was close to the edge of the stone, and consequently the stone fractured (Figure 21).
8. The plaster that was removed was more than 1 inch thick and was an original installation placed in the three application layers (Figure 22). The plaster appears to be a typical gypsum cement-based plaster with a fine and gypsum rich finish coat.
9. Oakum was used as a bond breaker behind the perimeter sealants (Figure 23).



*Figure 13 - Broken panes of glass recovered from the mockup window: original drawn glass (top) and replacement float glass (bottom).*



*Figure 14 - A comparison of the drawn glass (top) and float glass (bottom) reveals that the float glass is greener than the drawn glass.*



**Figure 15** - View of the interface between the frame and subframe at the lower left corner and sill reveals extensive corrosion buildup.



**Figure 16** - After removal of the sash and frame assembly it was found that there was significant corrosion at the sill of the frame. However, the rest of the frame and the sash were in good condition.



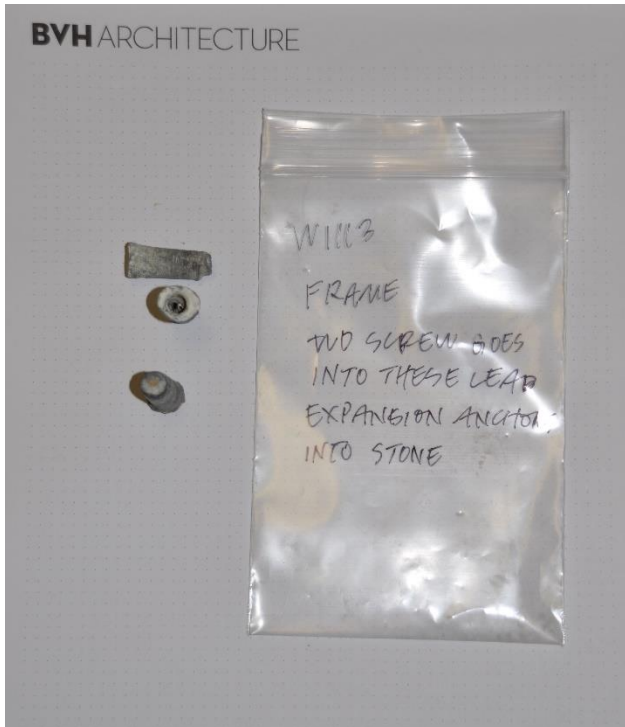
**Figure 17** - The three connectors of the hinge to the frame are rivet-type and cannot be removed without destroying them.



**Figure 18** - Wood blocking removed from below the sill revealed the wood was severely damaged due to chronic moisture penetration.



**Figure 19** - View of the wood blocking at the window head reveals that the wood is in excellent condition.



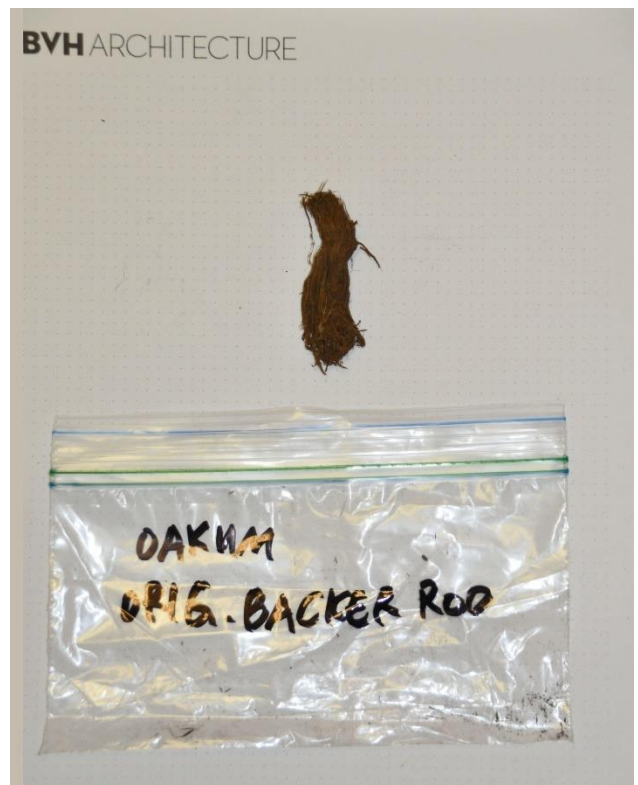
**Figure 20** - Lead plugs removed from the masonry.



**Figure 21** - Stone damage at the lead plug attachment.



**Figure 22** - A portion of the plaster that was removed from the left jamb to facilitate removal of the subframe.



**Figure 23** - The oakum that was used as a backer rod for the original perimeter sealant.

## Restoration in the Shop

At the shop the window sash were removed from the frames and carefully deglazed in an attempt to salvage the original glass (Figure 24). Excess caulking, sealants, dirt, paint and corrosion were removed from the steel components which were then powder coat painted at a nearby Sherwin-Williams facility.



**Figure 24** – The mock up window in the Re-View shop.

The following conditions of note were found in the Re-View shop:

1. The original glazing putty holding in the original glass was completely dried out and very hard. Unfortunately, only 6 of the 24 panes could be removed without breaking them.
2. It was determined that no welding repairs were required at the jamb or sill units.
3. Tolerances are extremely important with the restoration process. The powder coating is 6 microns thick. This changes the reinstallation of the metal glazing stops and all corner connections such as at the subframe. The angle connections at the corners of the subframe will need to be altered to take this added thickness into account.
4. The original countersunk screws reportedly have a head that is mitered at a different angle

than that of contemporary countersunk screws. Countersunk holes in the frame and subframe may need to be modified to account for this variance as well take into account the effect of the powder coat thickness so that the screws will set completely flush in the finished subframe holes.

5. The hinges were originally attached to the frame with rivet type connections. These were replaced with new stainless steel bolts and nuts.
6. The sash were reglazed with the six remaining panes of the original glass and the remainder with contemporary float glass of the same 1/8 inch thickness. The glazing consisted of glazing tape on the interior and silicone sealants on the exterior.

## Window Re-Installation Process

The sash and frame were out of rack as delivered to the site (Figure 25). According to Re-View it was out of alignment before it was removed. They assured us that after the reinstallation it would get back into as good a rack as it was originally. The following process was followed during installation:

1. The plywood was removed from the opening and the existing anchor holes into the limestone were drilled deeper to accommodate the new expansion anchors (Figure 26).
2. Two inch long plastic sleeves were chosen over lead sleeves after testing by the OCC staff in their shop (Figures 27 and 28). Epoxy-coated Tapcon concrete anchors were chosen over stainless steel (Figure 29). The anchor selection is still under discussion. All existing anchor holes into the stone were reused and no other anchor locations were added.
3. The subframe sill was installed first with both corner angles attached; then the right jamb (as seen from the interior) with the upper corner angle; then the head with the left corner angle; and finally, the left jamb. This was in reverse order to which the subframe pieces were removed. There was an issue with the fit of the

corner angles because they were powder coated, and the coating thickness makes a difference with reassembly (Figure 30).

4. The subframe members were anchored but otherwise left untightened and unshimmed until all pieces were in place. The squareness of the subframe assembly was measured and then shimmed and tightened.
5. The frame and sash were lifted into place as a single unit and installed in the opening (Figure 31). The drip cap at the head of the frame was reinstalled during this process (Figure 32).
6. The left sash was hanging up at the sill close to the hinge. The installation crew were able to mitigate this by strategically tightening and loosening bolts connecting the frame into the subframe.
7. Bolts holding the hinge to the sash were a bit too long making the sash spring back from full closure. These bolts were switched out with shorter bolts so that the ends were flush with the face of the hinge.
8. The brass cremones and limiting hardware were reinstalled and adjusted for proper fit (Figure 33).
9. The perimeter of the window was left unsealed (Figure 34). The perimeter sealants should be black -colored polyurethane sealant with a backer rod.
10. Installation of weatherstripping and UV films was not part of the mock up process.



*Figure 25 - The out of rack nature of the sash within the frames can be seen in the misalignment of the muntins.*



*Figure 26 - The original holes in the stone were deepened to accommodate longer expansion anchors.*



*Figure 27 - Plastic expansion shields were found to perform better than lead shields at the mockup window. The expansion shields were cut to be 2 inches long.*



**Figure 28** - A view of one of the plastic expansion shields in place in an area where the stone was damaged by the original expansion anchor.



**Figure 29** - Epoxy-coated ferrous steel "tapcon" anchors that were used in the installation.



**Figure 30** - One of the four corner angles that connect the corners of the subframe. The thickness of the powder coat paint has made reconnection of such connections difficult.



**Figure 31** - The sash and frame being hoisted into place.



**Figure 32** - The drip cap being installed between the subframe head and frame head.



**Figure 33** - The brass hardware being gently adjusted for proper operation.



**Figure 34** - The unfinished perimeter seal. This image shows that there will be some mortar work that will need to be implemented as part of the window restoration process.

## Discussion and Conclusions

The window mock up process was critical in determining the details of window restoration plus many of the challenges that will be faced during the window restoration portion of the project. The following are important issues to consider during the restoration process.

### ***Painting of the frames***

Removal of the entire sash, frame and subframe provides the opportunity to rehabilitate these removed components in a controlled environment and the opportunity to utilize a high-grade, factory

applied finish. In addition, preparing and finishing metal components in the shop will be less expensive due to removal of climate variance in the field and simplified environmental compliance.

A high quality durable finish can be accomplished in the factory using an electrostatic powder coating process. Powder coatings are based on polymer resin systems, combined with curatives, pigments, leveling agents, flow modifiers, and other additives. These ingredients are melt mixed, cooled, and ground into a fine powder. Electrostatic spray deposition is used to achieve the application of the powder coating to a metal substrate. This application method uses a spray gun, which applies an electrostatic charge to the powder particles, which are then attracted to the grounded metal components. After application of the powder coating, the parts enter a curing oven where, with the addition of heat, the coating chemically reacts to produce long molecular chains, resulting in high cross-link density.

As the steel frame windows are precision instruments the thickness of the powder coating becomes an issue at the corners, bolt holes, glazing stops and the like. The thickness of the powder coating will need to be strictly controlled, and the existing metal components may require small alterations so that the components will fit together as they did originally.

### ***Glazing of the Sash***

The original glass in the steel framed windows at the base of the Capitol is “drawn” glass. The manufacturing process was either *machine drawn cylinder* or *fourcault*. Both were in widespread use in the United States starting at the beginning of the 20<sup>th</sup> century until the close of the Second World War. Drawn glass has a characteristic waviness that is not seen in “float” glass which has been used almost exclusively for window glass since the 1950s. Where we need new glass during the glazing process we have the choice of either float glass or several types

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of restoration glass which are products that were conceived to mimic the waviness of drawn glass. There are several manufacturers who provide restoration glass that is meant to mimic the appearance of drawn glass:

- AGW Old World Glass - Type AA
- Hollander Circa 1900
- Bendheim - Light Restoration Glass
- Pioneer - Restover Glass

Restoration glass would have higher cost than float glass. As the waviness of the glass is not a character defining feature we recommend the use of float glass as a replacement rather than restoration glass.

Glazing of the glass panes into the sash should occur in the shop after the paint finish process is completed. With the sash that were restored circa 1984, the glazing stop connections were altered to hold insulated glass units which were thicker than the original glass. The alteration was accomplished by changing the anchor attachment holes for the glazing stops from circular to oval. To restore the original configuration the oval holes will need to be filled with weld metal and then a new hole will be drilled in the original circular configuration and original location. The welding process must be accomplished prior to painting the window components.

Glazing tape on the interior and non-structural silicone on the exterior should be used as the glazing compounds to bed the glass into the glazing rabbet and to assure water and airtightness when the glazing stops are applied.

Deglazing the sash in the factory has revealed difficulties with salvaging the original glass. With the mockup, only 25% of the existing panes were removed without being broken. Perhaps during the "assembly-line" window restoration this salvage rate can be increased. However, it appears that we will lose a significant amount of the original glass. There

are three approaches to address the salvage of original glass:

1. catalog every pane of original glass and assure its reinstallation in the same orientation and same location from which it was removed, and fill the other openings with float glass;
2. consolidate the original glass panes into selected windows and use float glass everywhere else; or
3. stockpile the original glass that is not broken, and use float glass exclusively at all windows.

We recommend either the second or third option.

## ***Hardware and Hardware Finish***

The OCC has requested that all brass hardware including handles, limiting hardware, locking devices and hinges not have any of the patina removed. These items should be cleaned of soils and grease but otherwise finishes should not be altered.

Consideration should be given to installing removable hinge pins so that sash can be removed without backing out the hinge screws. We believe that this can be accomplished using the original hinges.

## ***Reattaching the Subframes to the Masonry***

The original subframe anchors were ferrous screws that were screwed into lead plugs. We recommend a similar expansion anchor arrangement utilizing the existing anchor holes in the stone. Some of the original anchors damaged the stone, and the holes are compromised. We therefore recommend that the existing holes in the stone be used as a starting point to be drilled deeper so that we can install deeper expansion anchors. The OCC maintenance shop staff has determined through their own independent testing that plastic expansion shields are preferable to lead shields.

At the subframe sill where there has been extensive corrosion of the sill and anchors, we need to assure a watertight installation of the fasteners where they penetrate the subframe sill. This can be

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accomplished with the use of rubber or nylon washers and the application of sealant on top of the screw heads after they have been installed.

The perimeter sealants where the frame abuts the stone at the head, jamb and sill should be composed of polyurethane sealant. A small cylindrical closed cell backer rod should be placed between the frame and stone to prior to sealant application so that two-way adhesion is assured. The mockup as revealed that some minor pointing will need to be implemented along with the perimeter seal.

## ***Films and maintenance***

Our research on UV-blocking films indicate that to achieve our goal of low reflectance and minimal color change we should be looking at products with a Light-to-Solar-Heat-Gain (LSG) ratio of about .6. LSG is Visible Transmittance (VT) divided by the Solar Heat Gain Coefficient (SHGC):

$$\text{LSG} = \text{VT}/\text{SHGC}$$

In addition, these neutral window films should have low reflectance so that they do not change the appearance of the windows. According to recent research<sup>1</sup> three films that are suitable for archival use include products manufactured by 3M, Llumiar and Madico Films.

However, the OCC, by trial and error have already selected the film that they would prefer. We will specify the film that has been selected by OCC.

## ***Weatherstripping***

Bulb-type PVC adhesive weather-stripping should be installed in the joints around all the sash as determined by air infiltration testing. OCC maintenance staff have found that some of the weatherstripping installed during testing hinders easy operation of the windows, and they have

selectively removed some of it. These windows should be re-evaluated to pinpoint the problems and refine the weatherstripping installation where it hinders operation.

Most of the sash will be fixed to become inoperable after they are weather-stripped. Weather-stripping in sash that will remain operable will need renewal on a regular basis.

## ***Plaster***

The plaster removed at the jamb was observed to be of similar composition to plasterers that are available today. Therefore, removed plaster can be patched with contemporary plaster.

One condition observed at a significant number of windows is moisture damage to the plaster at the head and jambs adjacent to the windows. It is suspected that some of this moisture damage is condensation-related. The metal frames will promote condensation during temperature changes, typically in the spring or fall, because the frames will reach outside temperatures. We have an opportunity to provide a thermal break between the window frames and plaster in a manner that would not be visible during the window restoration. One method would be introduction of a 3/8-inch-wide separation between the plaster and frame. This separation would be filled with backer rod and a paintable sealant.

## ***Specifications***

The specifications will be performance-based due to the uncertainties of many hidden conditions yet to be revealed during the actual project. However, there will also be prescriptive aspects to the specifications.

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<sup>1</sup> UV-Blocking Window Films for use in Museums – Revisited by Colleen Boye, Frank Preusser and Terry

Schaeffer, WAAC Newsletter, Volume 32, Number 1, January 2010

## Recommendations

Based upon the mock up window process the following scope of work is recommended, and is described in Figures 35 through 40:

### ***Restoration of windows that were not restored in the circa 1984 project***

1. All window components including sash, frames, subframes, glazing stops and hardware will be labelled so they will be reinstalled in the same location and orientation as existing.
2. The sash, frames, subframes and glazing stops will be restored in an industrial shop. Restoration will include deglazing; removal of dirt, residue, lead-based paint and corrosion; repainting and reglazing.
3. At some locations where the subframe cannot be removed it will be cleaned, repaired, primed and repainted in place. All anchors will be tested and replaced in kind as necessary.
4. Remove all glass panes. Original drawn glass that is not broken will be provided to the Owner for their archive.
5. Welding repair to damaged sill pieces should be performed on an as-needed basis.
6. All paint finishes performed in the shop will be achieved utilizing electrostatic powder coating. All welding repairs should be implemented prior to the powder coating. Metal components shall be altered to account for the thickness of the coating.
7. All glazing will be performed with float glass. All glazing will occur in the shop using non-structural silicone sealant on the exterior and glazing tape on the interior.
8. Bronze hardware should be removed from sash and frames, cleaned, sealed and reinstalled in their original locations. Sash hinges will be retrofit with removable hinge pins.
9. Subframes will be reinstalled using the original anchor locations with new expansion shields that are installed deeper into the masonry than

originally. Care will be taken at the subframe sill to assure a watertight installation.

10. All sealants between the frame and subframe will be replaced with non-structural silicone sealant.
11. All new metal to metal anchors, other than at parting stops, shall be stainless steel. Parting stop anchors shall be catalogued and reused. Replacement anchors shall be bronze.
12. Perimeter sealants between the subframe and masonry will be removed and replaced with polyurethane sealant and closed cell backer rod.
13. UV-blocking glass films and bulb-type weatherstripping will be installed in the field after reinstallation of the restored window.

### ***Restoration of windows that were restored in the circa 1984 project***

1. All window components including sash, frames, subframes, glazing stops and hardware will be labelled so they will be reinstalled in the same location and orientation as existing.
2. The sash, frames, subframes and glazing stops will be restored in an industrial shop. Restoration will include deglazing; removal of dirt, residue, lead-based paint and corrosion; repainting and reglazing.
3. At some locations where the subframe cannot be removed it will be cleaned, repaired, primed and repainted in place. All anchors will be tested and replaced in kind as necessary.
4. The existing insulated glass units will be discarded.
5. Welding repair to damaged sill pieces and altered glazing attachments should be performed on an as-needed basis.
6. All modified anchor locations in the sash and glazing stops to allow for installation of insulated glass will be modified to their original configurations prior to painting.
7. All paint finishes performed in the shop will be achieved utilizing electrostatic powder coating. All welding repairs should be implemented prior to the powder coating. Metal components shall

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be altered to account for the thickness of the coating.

8. All glazing will be performed with float glass. All glazing will occur in the shop using non-structural silicone sealant on the exterior and glazing tape on the interior.
9. Bronze hardware should be removed from sash and frames, cleaned, sealed and reinstalled in their original locations. Sash hinges will be retrofit with removable hinge pins.
10. Subframes will be reinstalled using the original anchor locations with new expansion shields that are installed deeper into the masonry than originally. Care will be taken at the subframe sill to assure a watertight installation.
11. All sealants between the frame and subframe will be replaced with non-structural silicone sealant.
12. All new metal to metal anchors, other than at parting stops, shall be stainless steel. Parting stop anchors shall be catalogued and reused. Replacement anchors shall be bronze.
13. Perimeter sealants between the subframe and masonry will be removed and replaced with polyurethane sealant and closed cell backer rod.
14. UV-blocking glass films and bulb-type weatherstripping should be installed in the field after reinstallation of the restored window.

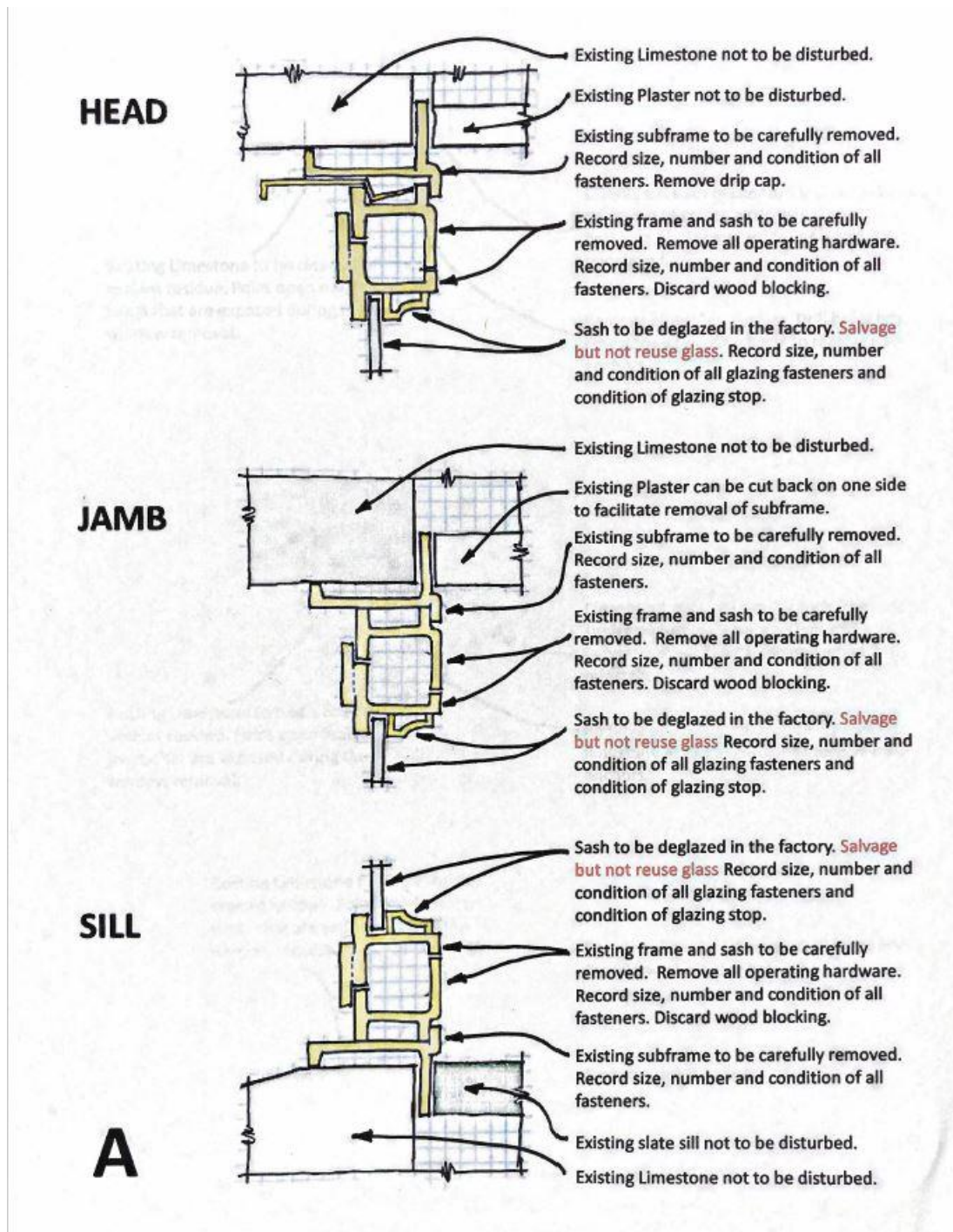


Figure 35 – Existing window section at head, jamb and sill where subframe can be removed.

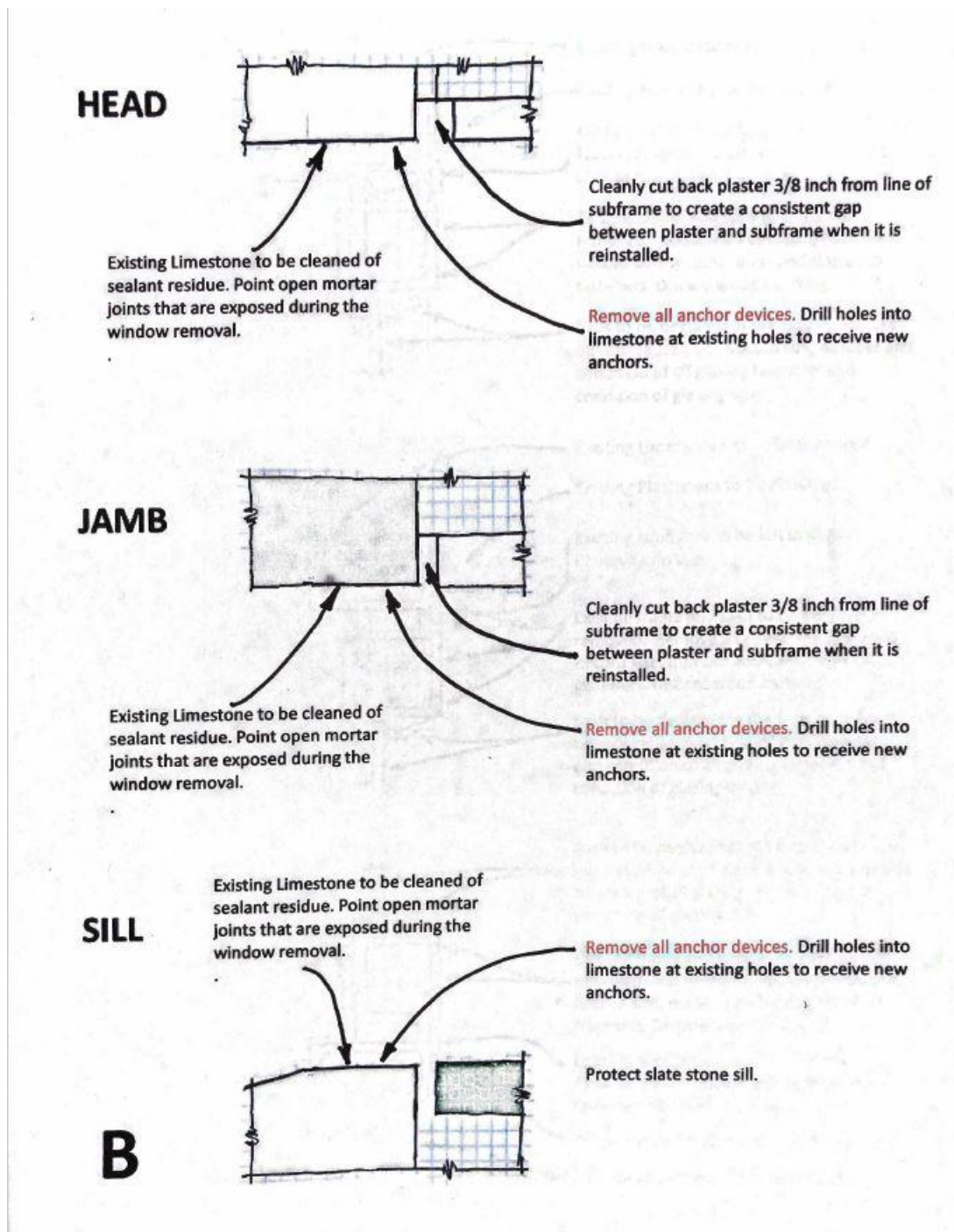


Figure 36 – Window section at head, jamb and sill where sash, frame and subframe have been removed.

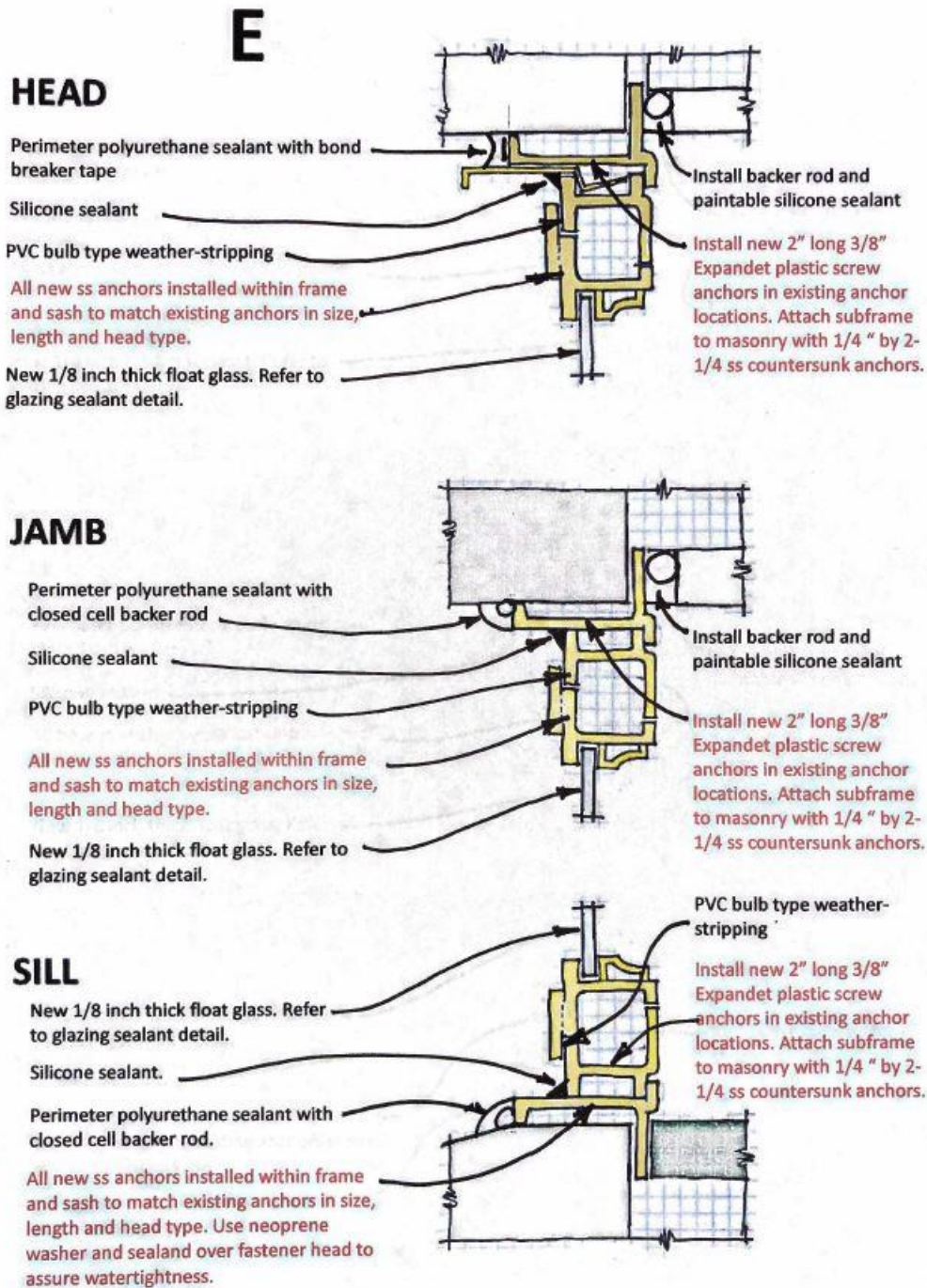


Figure 37 – Restored window section at head, jamb and sill where subframe was removed.

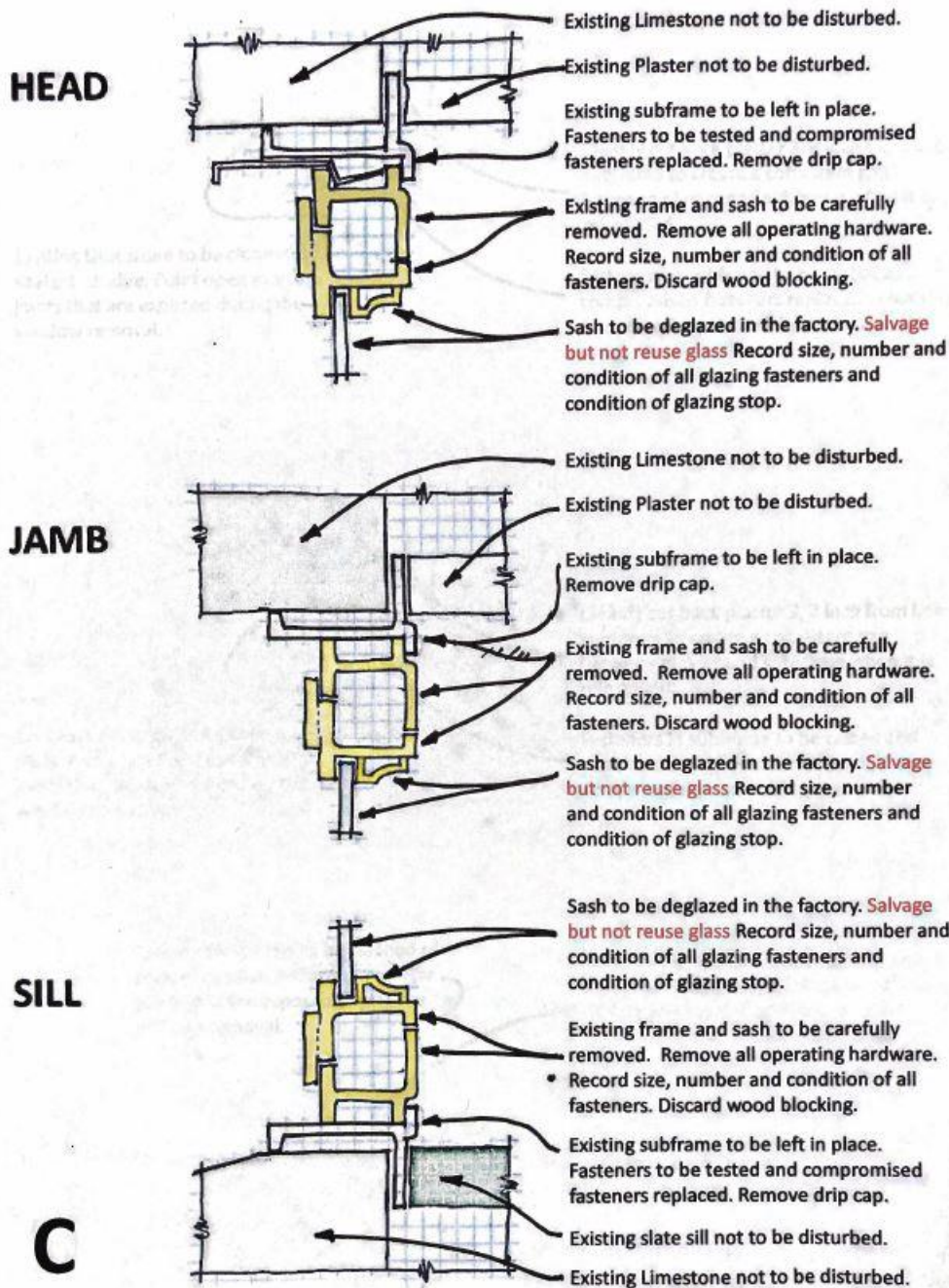
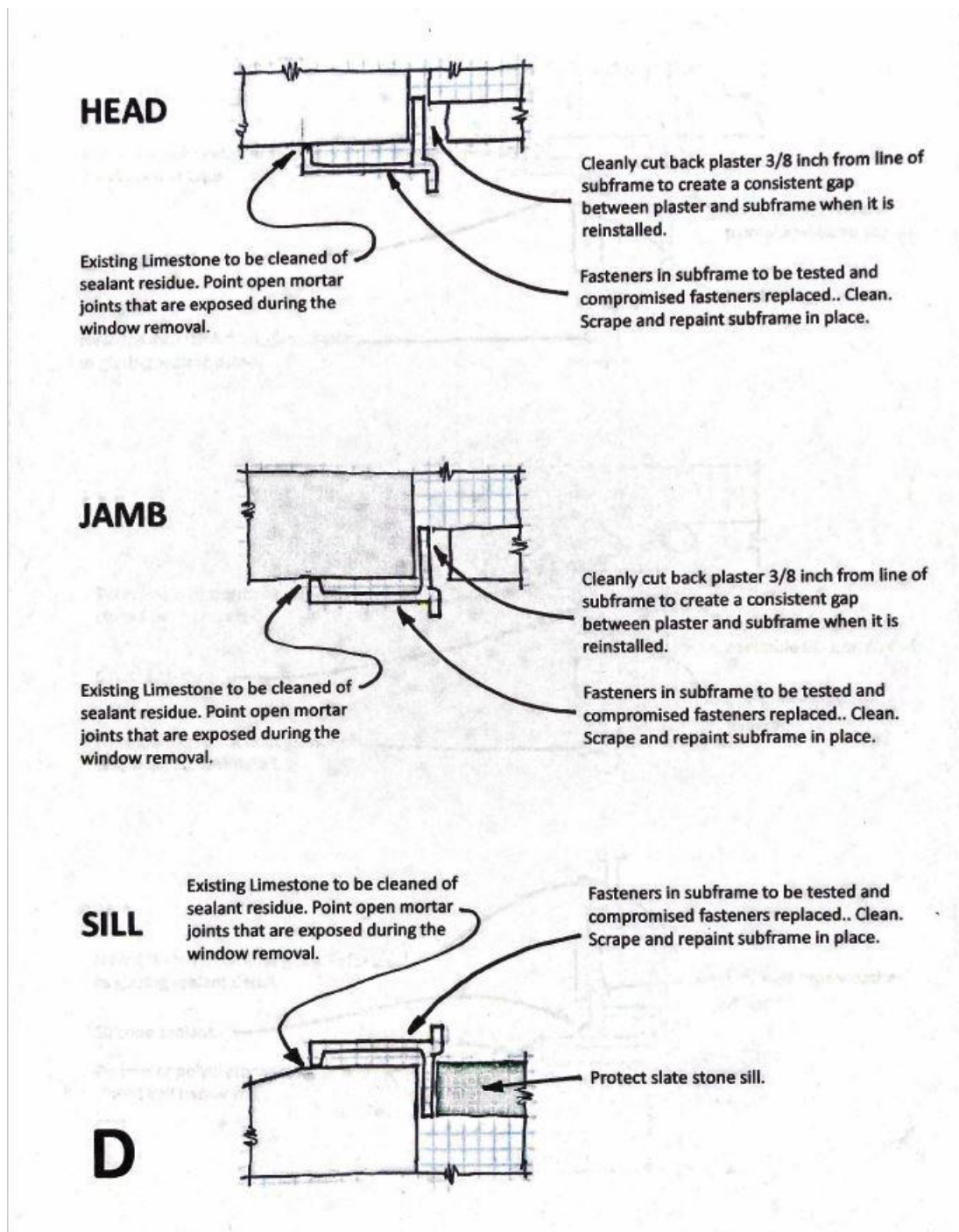
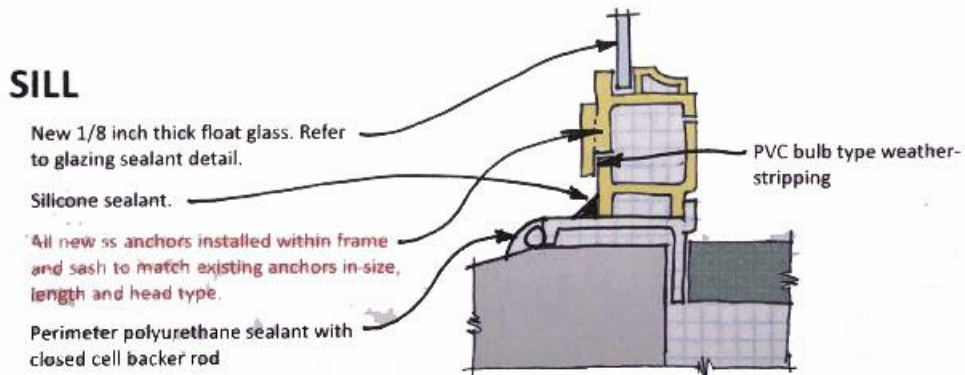
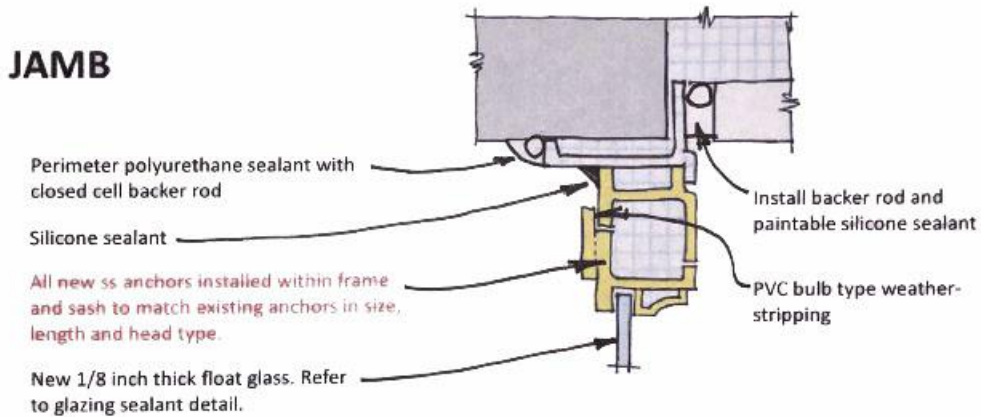
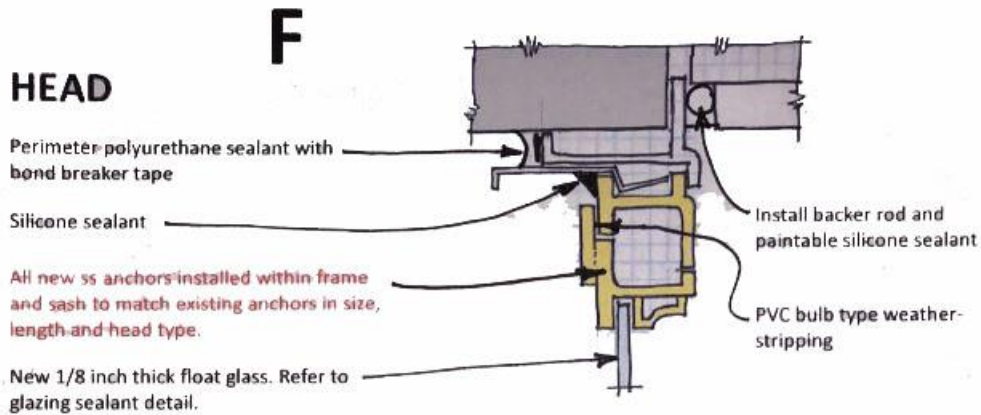


Figure 38 – Existing window section at head, jamb and sill where subframe cannot be removed.



**Figure 39** – Window section at head, jamb and sill where sash, frame have been removed but subframe was left in place.



**Figure 40** – Restored window section at head, jamb and sill where subframe was left in place.

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END OF DOCUMENT

DOCUMENT 004113 - BID FORM - STIPULATED SUM (SINGLE-PRIME CONTRACT)

1.1 BID INFORMATION

- A. Bidder: \_\_\_\_\_.
- B. Project Name: State of Nebraska State Capitol HVAC Replacement and Window Restoration Project.
- C. Project Location: 1445 K Street, Lincoln, Nebraska.
- D. Owner: State of Nebraska.
- E. Owner Project Number: 201405.
- F. Architect: BVH Architecture.
- G. Architect Project Number: L14077.

1.2 CERTIFICATIONS AND BASE BID

A. ADMONITION

1. The United States Department of the Interior has recognized the Nebraska State Capitol as a registered National Historic Landmark (NHL) possessing exceptional architectural, historic and cultural value for our nation. Original building and site details, finishes and furnishings are of the highest quality available, both in terms of material and craftsmanship. It is the mission of the Office of the Capitol Commission to insure that the work performed under construction and service contracts be of a quality equal or superior to the original construction. Only qualified, experienced contractors/craftsmen who recognize the exceptional value of this landmark and can perform to the highest standards will be employed.

B. The Contractor shall provide complete and separate stipulated sums for each different phase including Phase 1, Phase A and Phase B. It is Owner's intent that one General Contractor provide work for all phases indicated.

C. Base Bid, Single-Prime (All Trades) Contract: The undersigned Bidder, having carefully examined the Procurement and Contracting Requirements, Conditions of the Contract, Drawings, Specifications, and all subsequent Addenda, as prepared by BVH Architecture and Architect's consultants, having visited the site, and being familiar with all conditions and requirements of the Work, hereby agrees to furnish all material, labor, equipment and services, including all scheduled allowances, necessary to complete the construction of the above-named project, according to the requirements of the Procurement and Contracting Documents, for the stipulated sum of:

1. Phase 1 - \_\_\_\_\_ Dollars  
(\$\_\_\_\_\_).

2. Phase A - \_\_\_\_\_ Dollars  
(\$\_\_\_\_\_).

3. Phase B - \_\_\_\_\_ Dollars  
(\$\_\_\_\_\_).

4. The above amounts may be modified by amounts indicated by the Bidder on the attached Document 004322 "Unit Prices Form" and Document 004323 "Alternates Form."

5. Pre-Qualified Subcontractors. Identify the pre-qualified subcontractors included within your proposal, as required by Section 001153, on the lines below.

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

- d. \_\_\_\_\_
- e. \_\_\_\_\_
- f. \_\_\_\_\_

D. Ductwork Cleaning. Provide complete single-prime, stipulated sum for cleaning of all new and existing ductwork as indicated in Contract Documents. The undersigned Bidder, having carefully examined the Procurement and Contracting Requirements, Conditions of the Contract, Drawings, Specifications, and all subsequent Addenda, as prepared by BVH Architecture State of Nebraska State Capitol HVAC Replacement and Window Restoration Project and Architect's consultants, having visited the site, and being familiar with all conditions and requirements of the Work, hereby agrees to furnish all material, labor, equipment and services, necessary to complete the construction of the above-named project, according to the requirements of the Procurement and Contracting Documents, for the stipulated sum of:

1. Phase1-DuctworkCleaning - \_\_\_\_\_ Dollars (\$\_\_\_\_\_).

1.3 BID GUARANTEE

A. The undersigned Bidder agrees to execute a contract for this Work in the above amount and to furnish surety as specified within 10 days after a written Notice of Award, if offered within 45 days after receipt of bids, and on failure to do so agrees to forfeit to Owner the attached cashier's check, certified check, or bid bond, as liquidated damages for such failure, in the following amount constituting five percent (5%) of the Base Bid amount above:

- 1. Phase 1 - \_\_\_\_\_ Dollars (\$\_\_\_\_\_).
- 2. Phase A - \_\_\_\_\_ Dollars (\$\_\_\_\_\_).
- 3. Phase B - \_\_\_\_\_ Dollars (\$\_\_\_\_\_).

B. The undersigned Ductwork Cleaning Bidder agrees to execute a contract for this Work in the amount indicated and to furnish surety as specified within 10 days after a written Notice of Award, if offered within 45 days after receipt of bids, and on failure to do so agrees to forfeit to Owner the attached cash, cashier's check, certified check, U.S. money order, or bid bond, as liquidated damages for such failure, in the following amount constituting five percent (5%) of the Ductwork Cleaning Bid amount indicated:

1. Phase1-DuctworkCleaning- \_\_\_\_\_ Dollars (\$\_\_\_\_\_).

- C. In the event Owner does not offer Notice of Award within the time limits stated above, Owner will return to the undersigned the cashier's check, certified check, or bid bond.
- D. The undersigned states that he is complying with, and will continue to comply with, fair labor standards in the pursuit of his business and in the execution of the contract on which he is bidding.
- E. The undersigned acknowledges having reviewed provisions outlined for exemption of payment of sales taxes to the State of Nebraska and also understands the requirements for registration of any and all nonresident contractors and subcontractors with the Nebraska Department of Revenue.
- F. In submitting this bid, it is understood that the right is reserved by the Office of the Capitol Commission to reject any or all bids and to waive informalities, and it is further agreed that this bid may not be withdrawn during the period of forty-five (45) days following the closing time for receipt of the bids.

1.4 TIME OF COMPLETION

- A. The undersigned Bidder proposes and agrees hereby to commence the Work of the Contract Documents on a date specified in a written Notice to Proceed to be issued by Architect, and shall fully complete the Work within the time-frames as indicated on the Phase A, B and 1 Construction Schedule located in Section 013200.

1.5 ACKNOWLEDGEMENT OF ADDENDA

- A. The undersigned Bidder acknowledges receipt of and use of the following Addenda in the preparation of this Bid:
  - 1. Addendum No. 1, dated \_\_\_\_\_.
  - 2. Addendum No. 2, dated \_\_\_\_\_.
  - 3. Addendum No. 3, dated \_\_\_\_\_.

1.6 BID SUPPLEMENTS

- A. The following supplements are a part of this Bid Form and are attached hereto.
  - 1. Bid Form Supplement - Alternates.
  - 2. Bid Form Supplement - Unit Prices.
  - 3. Bid Form Supplement - Allowances.
  - 4. Bid Form Supplement - Bid Bond Form (AIA Document A310).
  - 5. Other items as indicated in Section 004373 "Bid Submittal Checklist" as well as any other item identified within this Project Manual.

1.7 CONTRACTOR'S LICENSE

- A. The undersigned further states that it is a duly licensed contractor, for the type of work proposed, in State of Nebraska, and that all fees, permits, etc., pursuant to submitting this proposal have been paid in full.

1.8 SUBMISSION OF BID

- A. Respectfully submitted this \_\_\_\_ day of \_\_\_\_\_, 2018.
- B. Submitted By: \_\_\_\_\_ (Name of bidding firm or corporation).
- C. Authorized Signature: \_\_\_\_\_ (Handwritten signature).
- D. Signed By: \_\_\_\_\_ (Type or print name).
- E. Title: \_\_\_\_\_ (Owner/Partner/President/Vice President).
- F. Witness By: \_\_\_\_\_ (Handwritten signature).
- G. Attest: \_\_\_\_\_ (Handwritten signature).
- H. By: \_\_\_\_\_ (Type or print name).
- I. Title: \_\_\_\_\_ (Corporate Secretary or Assistant Secretary).
- J. Street Address: \_\_\_\_\_.
- K. City, State, Zip: \_\_\_\_\_.
- L. Phone: \_\_\_\_\_.
- M. License No.: \_\_\_\_\_.
- N. Federal ID No.: \_\_\_\_\_ (Affix Corporate Seal Here).

END OF DOCUMENT 004113

BVH ARCHITECTURE  
BVH# L14077  
OCC# 201405

BID FORM - STIPULATED SUM  
(SINGLE-PRIME CONTRACT)

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DOCUMENT 004322 - UNIT PRICES FORM

1.1 BID INFORMATION

- A. Bidder: \_\_\_\_\_.
- B. Project Name: State of Nebraska State Capitol HVAC Replacement and Window Restoration Project.
- C. Project Location: 1445 K Street, Lincoln, Nebraska.
- D. Owner: State of Nebraska.
- E. Owner Project Number: 201405.
- F. Architect: BVH Architecture.
- G. Architect Project Number: L14077.

1.2 BID FORM SUPPLEMENT

A. ADMONITION

1. The United States Department of the Interior has recognized the Nebraska State Capitol as a registered National Historic Landmark (NHL) possessing exceptional architectural, historic and cultural value for our nation. Original building and site details, finishes and furnishings are of the highest quality available, both in terms of material and craftsmanship. It is the mission of the Office of the Capitol Commission to insure that the work performed under construction and service contracts be of a quality equal or superior to the original construction. Only qualified, experienced contractors/craftsmen who recognize the exceptional value of this landmark and can perform to the highest standards will be employed.

B. This form is required to be attached to the Bid Form.

C. The undersigned Bidder proposes the amounts below be added to or deducted from the Contract Sum on performance and measurement of the individual items of Work and for adjustment of the quantity given in the Unit-Price Allowance for the actual measurement of individual items of the Work.

D. If the unit price does not affect the Work of this Contract, the Bidder shall indicate "NOT APPLICABLE."

1.3 UNIT PRICES

A. Refer to Section 012200 "Unit Prices" for additional information.

B. Unit-Price No. A-1: Ceiling Patching.

1. \_\_\_\_\_ Dollars (\$ \_\_\_\_\_) per unit.

C. Unit-Price No. A-2: Three-Coat Plaster system on masonry walls.

1. \_\_\_\_\_ Dollars (\$ \_\_\_\_\_) per unit.

D. Unit-Price No. A-3: Plaster Crack Repair.

1. \_\_\_\_\_ Dollars (\$ \_\_\_\_\_) per unit.

E. Unit-Price No. A-4: Finish Coat Plaster Repair.

1. \_\_\_\_\_ Dollars (\$ \_\_\_\_\_) per unit.

F. Unit-Price No. A-5: New Slate Base.

1. \_\_\_\_\_ Dollars (\$ \_\_\_\_\_) per unit.

G. Unit-Price No. A-6: Wall infill with Structural Clay Tile (SCT).

1. \_\_\_\_\_ Dollars (\$ \_\_\_\_\_) per unit.

H. Unit-Price No. A-7: Wall infill with brick.

1. \_\_\_\_\_ Dollars (\$ \_\_\_\_\_) per unit.

I. Unit-Price No. A-8: Wall infill with new 4 inch CMU.

1. \_\_\_\_\_ Dollars (\$ \_\_\_\_\_) per unit.

J. Unit-Price No. A-9: Carpet adhesive removal at existing carpeted areas.

1. \_\_\_\_\_ Dollars (\$ \_\_\_\_\_) per unit.

K. Unit-Price No. A-10: Fireproofing patches at existing steel beams.

1. \_\_\_\_\_ Dollars (\$ \_\_\_\_\_) per unit.

1.4 SUBMISSION OF BID SUPPLEMENT

- A. Respectfully submitted this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.
- B. Submitted By: \_\_\_\_\_ (insert name of bidding firm or corporation).
- C. Authorized Signature: \_\_\_\_\_ (Handwritten signature).
- D. Signed By: \_\_\_\_\_ (Type or print name).
- E. Title: \_\_\_\_\_ (Owner/Partner/President/Vice President).

END OF DOCUMENT 004322