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Addendum #3

Project Name:	Nebraska History Museum Renovation 131 Centennial Mall N. Lincoln, NE 68508
Project No.:	13059-05
Documents Issued:	August 20, 2014
Bid Date:	2:00pm (CST), September 18, 2014
Bid Opening:	Department of Administrative Services (DAS) / State Building Division
Location:	1526 Building, Suite 200 1526 K Street Lincoln, NE 68508

This Addendum is issued to all known bidders before receipt of proposals. This Addendum is to authorize the use of the following information in preparing proposals for the above named project. The bidder **must** enter the number of this Addendum on the **Proposal Sheet.**

GENERAL INFORMATION

ADD 3-1. It appears that during the printing of Addendum #2, a portion of the abatement plans referenced in Item ADD 2-1.1 (Attachments 1, 3 and 5 of 6) were cropped.

1. The attachments were issued in the following order:

   Ground Level should be identified as Sheet 1 of 6.
   Second Level should be identified as Sheet 3 of 6.
   Third Level should be identified as Sheet 5 of 6

2. The Legend for all sheets is the same. The hatched areas shown on the plans represents areas where asbestos containing flooring material is present.

ADD 3-2. General Contractor is not required to include Morrissey Engineering costs for commissioning in their bid since these services are already under a separate contract with the Owner.

GENERAL QUESTIONS AND CLARIFICATIONS

ADD 3-3. Alternate No. Eight

Question: *If you choose to accept Alternate #8, would we need the additional steel shown to be added between Elevators EL01 and EL02?*

Response: No. It is our understanding that the existing divider beams should be adequate for accommodating any modernization work associated with Alternate No. Eight. The additional steel would only be necessary under the base bid where we would be converting the elevators to an MRL system.

ADD 3-4. Pre-Bid Attendance

Statement: *We are looking at bidding the project but were unable to make the pre-bid. From what I see in the Invitation to Bidders, this is not a mandatory meeting. Just wanted to verify.*

Response: Correct. The pre-bid conference for this project was NOT mandatory. If you would like to walk through the building to review existing conditions, please contact Charley McWilliams at 402.440.6380.

ADD 3-5. Sealant Joints at Ground Level Slab

Question: *Could you clarify if anything is to be done with the existing sealant joints in and around the Ground Level raised slab areas? (Slab areas that occur between the property line and the outside wall of the existing building)*

Response: All existing joints in the area indicated are to be removed, prepared and replaced with new backer rod and sealant.

MODIFICATIONS TO THE DRAWINGS

ADD 3-6. Refer to Sheet LS101, Detail A1 Code Summary;

1. Under Fire Protection Systems (Chapter 9), Standpipe System (Section 905), eliminate the requirements listed and replace with the text “NOT REQUIRED”.

ADD 3-7. Refer to Sheet A107, Room 307A;

1. Change the Floor Finish material to read “EXTG CONC”.

ADD 3-8. Refer to Sheet A300, Details A1, A6 and A9;

1. Keynote 079200.B is currently shown to be placed where the existing exterior thin brick veneer abuts the horizontal concrete beam (bottom of wall at each floor level). The joint at this location is actually a grout/mortar joint therefore no sealant will be required. It should however be noted that the grout/mortar at this location should be pointed and repaired.

ADD 3-9. Refer to Sheet A400, Detail K10; The keynote 079200.B located on the outside of the exterior wall, where the wall terminates at the existing concrete beam shall be replaced with the following note: “Existing mortar joint to be pointed and repaired”

ADD 3-10. Sheet M403 – Chilled Water Piping Schematics

1. See attached **Sketch M403a** for Cooling Coil Detail piping modifications from 3-way control valve to pressure-independent control valve.
2. See attached **Sketch M403b** for Alt. 03 Chilled Water Piping Schematic to show chilled water bypass valve and piping.

ADD 3-11. Sheet E201 - Ground Level Floor Plan - Power

1. See attached **Sketch E201a** for location of fan speed control box.

ADD 3-12. Sheet E300 - Lower Level Floor Plan - Special Systems

1. Fire Pump Room 015 - Provide supervisory trouble and alarm connection from preaction control panel to main fire alarm control panel.

ADD 3-13. Sheet E305 - Enlarged Plans - Special Systems

1. Camera C1F (shown on sheet E301) shall be included in Alternate No. 01 and Base Bid. Camera should be indicated half tone on A1/E305.
2. Connection to Fire/Smoke Detector from CHASE CH02 and associated duct smoke detector shall be shall be included in Alternate No. 01 and Base Bid.

ADD 3-14. Sheet E601 - Electrical Schedules

1. See attached **Sketch E603a** for Panel Schedule for Panel EL.

ADD 3-15. Sheet E602 - Electrical Schedules

1. Fixture Type 6 shall be considered equal by ConTech Lighting.
2. Fixture type 7 shall be considered equal by A-Light
3. Fixture type 8 shall be considered equal by A-Light
4. Fixture type 9 shall be considered equal by Ecosense, Acclaim, Designplan, and Insight. Decorative fixture masking plate required.
5. Fixture type 11 shall be considered equal by Kenall
6. Fixture type 12 shall be considered equal by Kenall
7. Fixture type 15 shall be considered equal by Con Tech, and Amerlux (Vivid 80CRI or 90+ CRI, field changeable optics, and snoot are required features)
8. Fixture type 35 shall be considered equal by Con Tech, and Amerlux (Vivid 80CRI or 90+ CRI, field changeable optics, and snoot are required features)
9. Fixture type 36 shall be considered equal by AAL.
10. Fixture type 37 shall be considered equal by Kim, Amerlux, Ecosense,
11. Emergency inverters shall be considered equal by Dual Lite.

ADD 3-16. Sheet E603 - Electrical Schedules

1. See attached **Sketch E603a** for schedule Panel EL.

MODIFICATIONS TO THE SPECIFICATIONS

ADD 3-17. Refer to Section 015000, Article 1.3; Replace with the following:

A. General: Installation and removal of and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities to use temporary services and facilities without cost, including, but not limited to, Owner's construction forces, Architect, occupants of Project, testing agencies and authorities having jurisdiction.

B. The responsibility for payment on all existing building utilities including sewer, water, gas and electricity will be the Owner's.

ADD 3-18. Refer to Section 019113 "Commissioning Requirements"; Revise Section 1.3.A to read as follows:

A. Morrissey Engineering will act as the CxA on the project. The CxA has overall responsibility for planning and coordinating the commissioning process.

ADD 3-19. Refer to Section 075323 “Ethylene-Propylene-Diene-Monomer (EPDM) Roofing”, Article 2.3, Paragraph A.1; Eliminate references to all manufacturers listed other than Firestone Building Products.

Existing roof assembly is a warranted Firestone assembly and as such, in order to maintain existing warranties, Firestone will be the only manufacturer able to provide product for the project.

ADD 3-20. Refer to Section 079200 “Joint Sealants”, Article 2.2; Eliminate Paragraphs A and B in their entirety and replace with the following:

A. Mildew-Resistant, Single-Component, Neutral-Curing Silicone Joint Sealant: ASTM C920, Type S, Grade NS, Class 25, for Use NT.

1. Products: Subject to compliance with requirements, provide the following or pre-approved substitution:

a. Pecora Corporation; 898

ADD 3-21. Refer to Section 079200 “Joint Sealants”, Article 2.3; Add the following Paragraph:

D. Single-Component, Nonsag, Urethane Joint Sealant: ASTM C920, Type S, Grade NS, Class 100/50, for Use NT.

1. Products: Subject to compliance with requirements, provide the following or pre-approved substitution:

a. Basis-of-Design: Sika Corporation, Construction Products Division; Sikaflex – 15LM.
b. Tremco Incorporated
c. BASF Building Systems

ADD 3-22. Refer to Section 079200 “Joint Sealants”, Article 3.7, Paragraph A.1; Change this paragraph to read as follows:

1. Urethane Joint Sealant: Single component, nonsag, neutral curing, Class 100/50.

ADD 3-23. Refer to Section 21100 “Water-Based Fire Suppression Systems”; Add Sections 2.14 and 2.15 as follows:

2.14 CONTROL PANELS

A. Description: Single-area, two-area, or single-area cross-zoned type control panel as indicated, including NEMA ICS 6, Type 1 enclosure, detector, alarm, and solenoid-valve circuitry for operation of deluge valves.

1. Listed in UL's "Fire Protection Equipment Directory" or FM Global's "Approval Guide" when used with thermal detectors and Class A detector circuit wiring.
2. Electrical characteristics are 120-V ac, 60 Hz, with 24-V dc rechargeable batteries.
3. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application

B. Manual Control Stations: Electric operation, metal enclosure, labeled "MANUAL CONTROL STATION," with operating instructions and cover held closed by breakable strut to prevent accidental opening.

C. Panels Components:

1. Power supply.
2. Battery charger.
3. Standby batteries.
4. Field-wiring terminal strip.
5. Electrically supervised solenoid valves and polarized fire-alarm bell.
6. Lamp test facility.
7. Single-pole, double-throw auxiliary alarm contacts.
8. Rectifier.

2.15 DETECTION DEVICES

A. General Requirements for Detection Devices:

1. Comply with NFPA 2001, NFPA 72, UL 268, UL 521.
2. 24-V dc, nominal.
3. Provide detection devices as part of a complete double-interlock preaction fire protection system in areas as shown on floorplans, with monitoring by control panel.
4. All wiring for detection devices shall be routed in conduit. All conduit in exposed gallery areas shall be routed tight to structure, following structure, and be painted to match.
5. Gallery areas include solid concrete pan joist structure with beam pockets at 19” depth.

    a. See architectural reflected ceiling plan on sheet A702 for exposed structure layout typical to all floors.

B. Smoke Detection: Include the following features:

1. Self-Restoring: Detectors do not require resetting or readjustment after actuation to restore them to normal operation.
2. Plug-in Arrangement: Detector and associated electronic components are mounted in a module that connects in a tamper-resistant manner to a fixed base with a twist-locking plug connection. Terminals in the fixed base accept building wiring.
3. Integral Visual-Indicating Light: LED type. Indicates detector has operated.
4. Sensitivity: Can be tested and adjusted in-place after installation.
5. Photoelectric Detectors: LED light source and silicon photodiode receiving element.

C. Heat Detection: Include the following features:

1. Combination type, actuated by either a fixed temperature of 135 deg F or a rate of rise that exceeds 15 deg F per minute unless otherwise indicated.
2. Integral Visual-Indicating Light: LED type. Indicates detector has operated.

D. Signals to the Central Fire Alarm Control Panel: Any type of local system trouble is reported to the central fire alarm control panel as a composite "trouble" signal. Alarms on each system zone are individually reported to the central fire alarm control panel as separately identified zones.

ADD 3-24. Refer to Section 230900 “HVAC Instrumentation and Controls”; Modify Section 2.8.A to Add “Flow Control Industries, Inc” as an approved manufacturer AND Add Section 2.8.D as follows:

D. Pressure Independent Control Valves:

1. Accuracy: The control valve shall accurately control flow from 0 to 100% full rated flow with an operating pressure differential range of 5 to 50 PSID across the valve. Valves shall require no more than 5 PSID to operate at the flow rates indicated on the flow tag.
2. Testing: Each control valve shall be individually flow tested and factory verified to deviate no more than ± 5% through the entire operating pressure range. Test stands shall be calibrated and verified with traceability to NIST standards.

    a. In lieu of factory testing, manufacturer shall test each valve at an approved third-party testing facility with test equipment calibrated and verified with traceability to NIST standards. Testing to verify flow deviates no more than ± 5% when tested at 10 degree increments between 0 and 90 degrees and 5 PSID increments between 5 and 50 PSID.

3. Flow Characteristics: Equal percentage characteristics.
4. Close-Off Pressure Rating: 200 PSI.
5. The manufacturer shall warrant all components for a period of 5 years from the date of production, with the first two years unconditional.
6. All valves shall have (3) factory installed pressure/temperature ports to allow factory and field verification of flow and proper operation.
7. Plastic internal parts are not acceptable.

ADD 3-25. Refer to Section 230993 “Sequence of Operation”; Modify Section 1.5.C to read as follows:

1. The chilled water pump speed shall modulate to maintain the system differential pressure setpoint. This sensor should be located in the Ground Level AHU Room and be approved by the Engineer as part of the shop drawing process.
2. The chilled water pump VFD minimum speed setpoint shall be set to maintain the chiller’s minimum evaporator differential pressure setpoint (with bypass valve 100% open).
3. The chilled water bypass valve shall modulate to maintain the active chiller’s minimum evaporator differential pressure setpoint. This pressure setpoint shall be verified with the chiller manufacturer.

Add Section 1.5.E.5 to read as follows:

5. Evaporator differential pressure setpoint shall be 6 psi.

ADD 3-26. Refer to Section 232113 “Hydronic Piping”;

1. Insert Section 3.2.G to read “Calibrated Balancing Valves and Automatic Flow-Control Valves shall not be required on devices where pressure independent control valves are installed”.

ADD 3-27. Refer to Section 230593 “Testing, Adjusting and Balancing”;

1. Insert Section 3.7.G to read “Systems installed with pressure-independent control valves shall not require hydronic system balancing. Flow shall be verified and adjusted for the pressure independent valve assembly (valve and actuator combination) for field conditions using the pressure independent control valve manufacturer’s documented

procedure for the installed product. Exact locations of tested product to be coordinated with the Engineer prior to testing".

ADD 3-28. Refer to Section 267220 "Intercom and Public Address Systems";

1. Add Part 2, 2.1, A.,2. System shall be considered equal as Dukane by Care Hawk.

ADD 3-29. Refer to Section 277400 "Communications Cabling Systems";

1. Add the following to PART 2 - PRODUCTS:

    1. OPTICAL FIBER CABLE

        a. Systimax P/N P-0XX-DZ-5K-FSUAQ or equal by Panduit

            i. Multimode fiber, strand count as indicated on drawings
            ii. OM4
            iii. Plenum rated
            iv. Aqua jacket color
            v. Interlocking armored cable

    2. OPTICAL FIBER CABLE HARDWARE

        a. Fiber Patch Panel: P/N 360G2-XU-MOD-SD

            i. Mounting: Rack mount.
            ii. Provide Systimax P/N 360G2 Cartridge 12-LC-LS-AQ Coordinate exact cartridge with owner.

        b. Fiber Connectors: Angled LC style to match cartridges.
        c. Patch Cords: Factory-made, dual-fiber cables in 36-inch (900-mm) lengths.

            i. Provide One patch cord for each fiber pair.

ADD 3-30. Refer to Section 281000 "Intrusion Detection";

1. Delete Section 1.1, C. Contractor shall provide all programming, startup, and owner training. Contractor shall provide and program Intrusion Detection Software to include a floor plan indicating status of monitored doors and ability to transmit alarm to security desk PC when egress only exterior doors are opened regardless of arm/disarm status.
2. Section 2.3, D., 1. shall read "Digital Monitoring Products (DMP) #XR550N with network monitoring connectivity".

ADD 3-31. Refer to Section 28200 "Video Surveillance";

1. Part 2, Section 2.1, A, 1, b. shall read "IP Cameras: Indoor Axis P3364-V, Outdoor Axis P3364-VE"
2. Part 2, Section 2.1, C., 3. Milestone on Dell NVR server shall be acceptable.
3. Part 2, Section 2.3, A. - Revise to read "Provide dedicated security workstation and install Client Software. Workstation shall also run Intrusion Detection Client Software, see Section 281000. Minimum Requirements:

    1. Operating System: Windows 7 (64-Bit)

2. Processor: Quad Core 3.2 GHz
3. System Ram: 8GB
4. Video Card: PCI Express, DirectX 10.0 compliant with 1GB RAM
5. Network Interface: 1Gbps
6. Hard Disk Space: 500GB
7. Displays: Two (2) 24" with 1920x1200 minimum Max resolution at 60Hz

ADD 3-32. Refer to Section 281300 “Access Control”;

1. Delete Section 2.2, A., 1. Bosch is not allowed, system shall be extension of existing Kantech system.

ARCHITECTURAL PRIOR APPROVALS / SUBSTITUTIONS

ADD 3-33. The manufacturers listed herein will be considered approved for bidding. However, the proposed substitution must meet the intent of the specifications and will be subject to shop submittal approval during construction. Burden of Proof is on Proposer. Bidders shall bear all responsibility for coordinating and performing related changes in the Work necessitated by such substitution and include such costs in the Bid:

Specification Section	Manufacturer / Proposed Product
a. 033000 – Vapor Retarders	Viper Vaporcheck II 15-Mil
b. 071416 – Cold Fluid-Applied Waterproofing	Polywall Commercial Stretch

ADD 3-34. The following substitutions have **NOT** been approved for use on this Project:

Specification Section	Manufacturer / Proposed Product
a. 072726 – Fluid-Applied Membrane Air Barriers	Polywall AirLok Flex VP
Reason: Unfamiliar with product and insufficient comparative information against specified products for review.	
b. 075323 – EPDM Roofing	Mule-Hide
Reason: Not compatible with Owner Requirements and Expectations	
c. 093000 – Ceramic Tiling (CT-1)	Daltile Semi-Gloss Wall Tile
Reason: Want to retain the specified product.	
d. 093000 – Ceramic Tiling (CT-2, 3 & 4)	Daltile P’zazz Colorbody Porcelain
Reason: Want to retain the specified product.	

MECHANICAL PRIOR APPROVALS / SUBSTITUTIONS

ADD 3-35. The manufacturers listed herein will be considered approved for bidding. However, the proposed substitution must meet the intent of the specifications and will be subject to shop submittal approval during construction. Burden of Proof is on Proposer. Bidders shall bear

all responsibility for coordinating and performing related changes in the Work necessitated by such substitution and include such costs in the Bid:

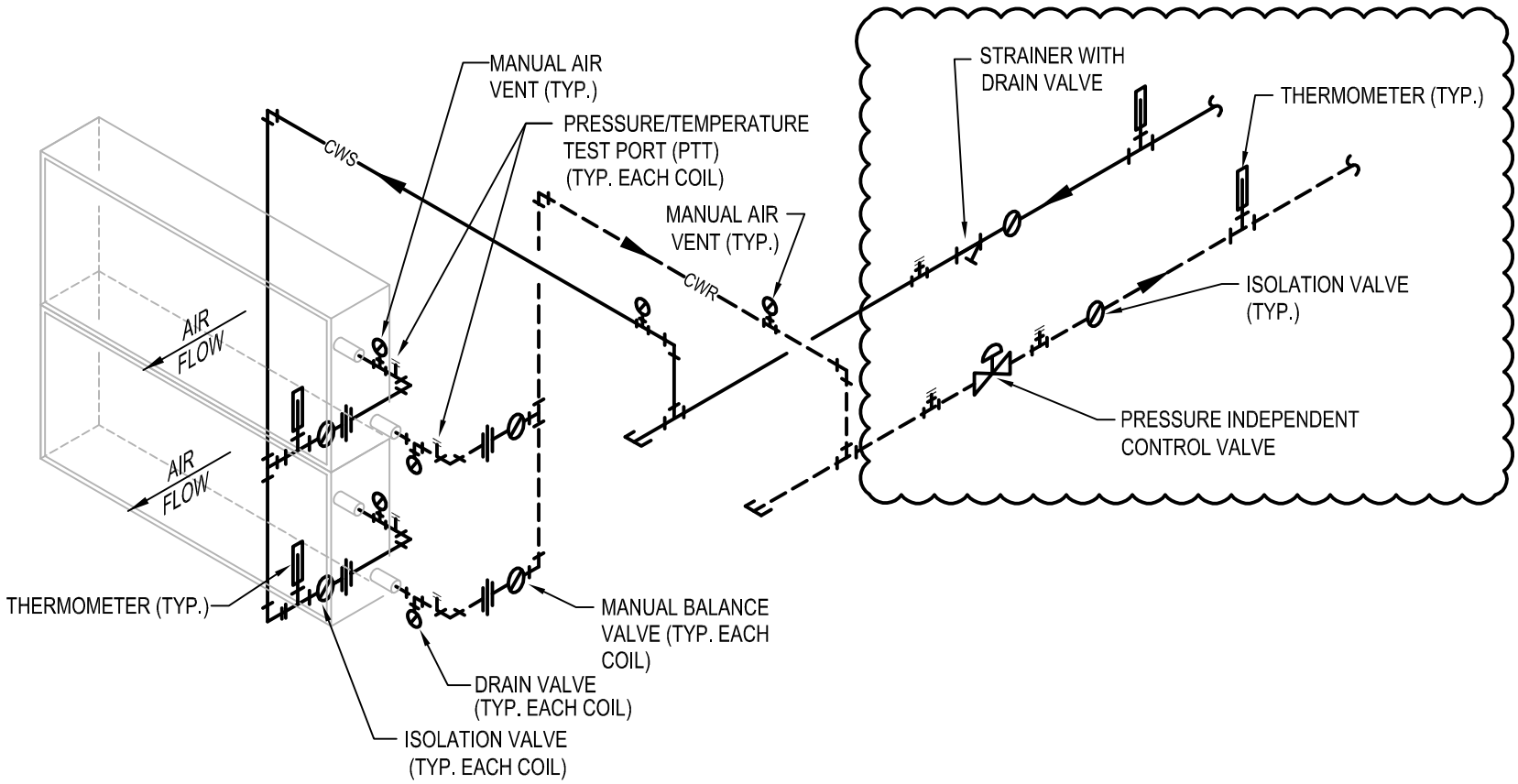
Proposed Equipment	Manufacturer
a. 230960 – Variable Frequency Drives	Emerson
b. 233113 – Metal Ducts & Accessories (spiral duct)	Spiral Pipe of Texas
c. 236423 – Scroll Water Chillers	JCI / York
d. 237313 – Modular Indoor Central-Station Air-Handlers	JCI / York
e. 238219 – Fan Coil Units	JCI / York
f. 238239 – Propeller Unit Heaters	Reznor
g. 238413 – Humidifiers	Neptronics

ATTACHMENTS

ADD 3-36. The following attachments are included as part of this addendum:

- Sketch M403a
- Sketch M403b
- Sketch E201a
- Sketch E603a

End of Addendum #3



COOLING COIL DETAIL

NO SCALE

6
M403

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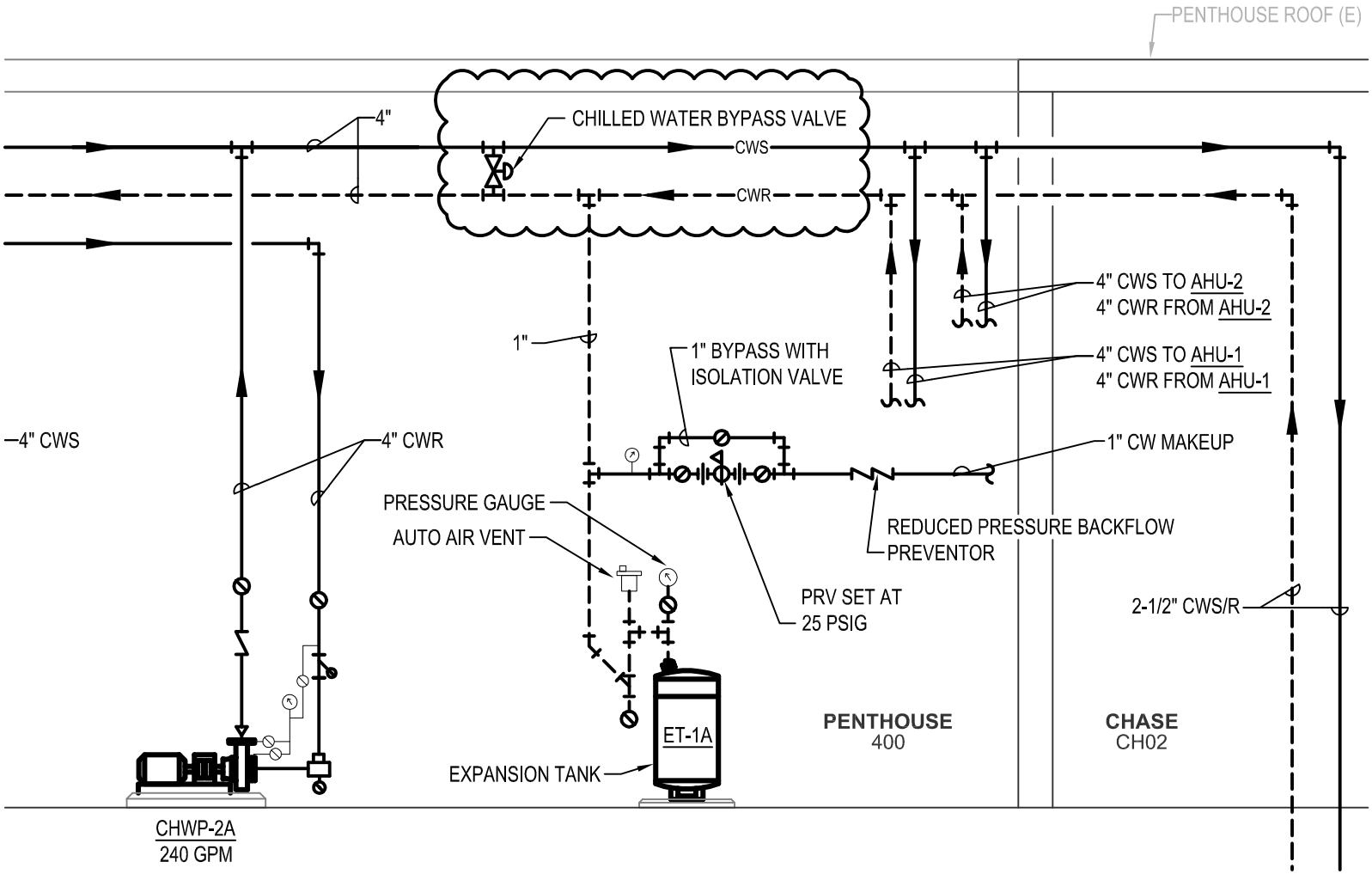
Nebraska History Museum Renovation
Nebraska State Historical Society
15th and P Streets Lincoln, NE 68508

project no.:	13252	drawing referenced:	M403
date:	09/09/2014	addendum no.:	3

M403a
sketch



ALT 03. - CHILLED WATER PIPING SCHEMATIC

NO SCALE

2
M403

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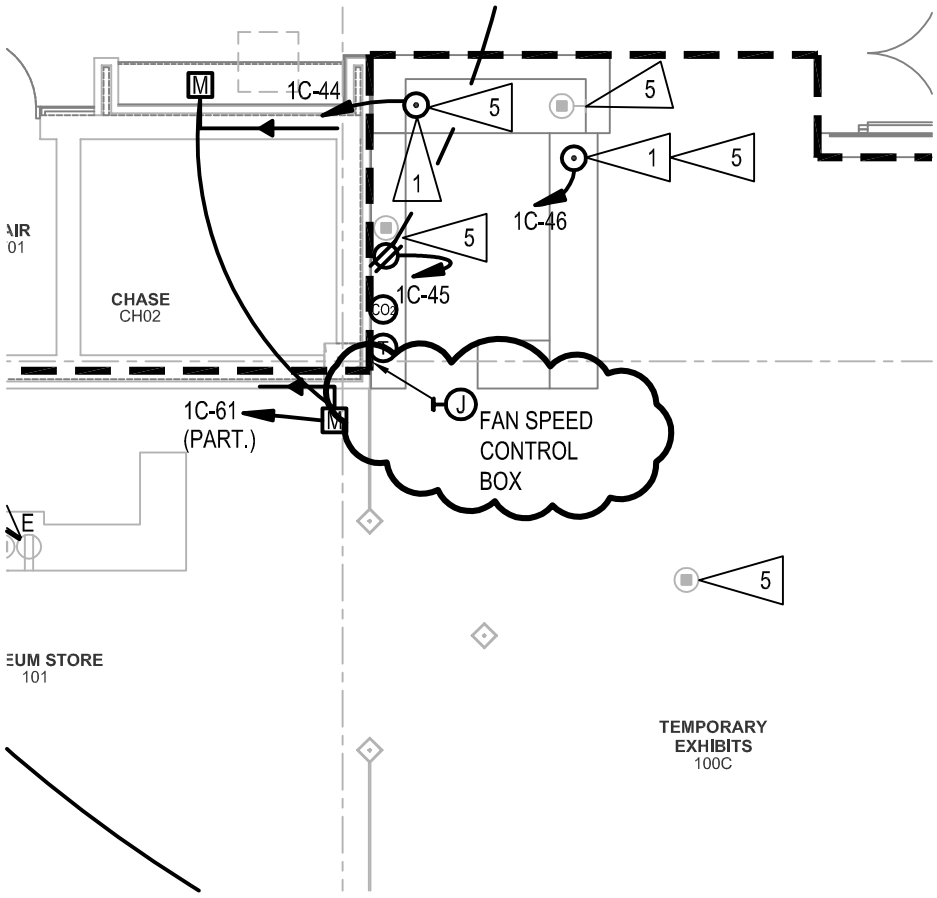
M403b
sketch



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project no.:	13252	drawing referenced:	E201
date:	09/12/2014	addendum no.:	3

sketch E201a

PANEL SCHEDULE

LIGHTING PANEL:	**EL**	VOLTAGE:	**208/120V**
RATING:	**60A**	PHASE:	**3**
MOUNTING:	**SURFACE**	WIRE:	**4**
TYPE:	**MLO W/ GND. BAR**	A.I.C. RATING:	**SERIES**

DESCRIPTION	O/C	CKT.		O/C	DESCRIPTION
REC - SP-1	20/1	1	2	20/1	REC - SP-1
LTG/REC - ELEVATOR EQUIPMENT CLOSET	20/1	3	4	20/1	ELEVATOR CAR LIGHTS
LTG/REC - ELEVATOR PIT	20/1	5	6	20/1	ELEVATOR CAR LIGHTS
SPARE	20/1	7	8	20/1	SPARE
SPARE	20/1	9	10	20/1	SPARE
SPARE	20/1	11	12	20/1	SPARE
SPARE	20/1	13	14	20/1	SPARE
SPACE		15	16		SPACE
SPACE		17	18		SPACE
SPACE		19	20		SPACE

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project no.: 13252	drawing referenced: E603		
date: 09/12/2014	addendum no.: 3	sketch	E603a