



PROJECT:	NECC DINING FACILITY AND RESIDENCE HALL	PROJECT NO.	L14089
FROM:	BVH ARCHITECTS	DATE:	12-19-2014
TO:	PROSPECTIVE BIDDERS	ADDENDUM NO.	1

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.

PROJECT MANUAL

1. 000100 TABLE OF CONTENTS
 - a. Delete 047200 CAST STONE MASONRY from Bid Package #2.
2. 002400 DESCRIPTIONS OF WORK:
 - a. Revise Part E Bid Package #5:
 1. Add Section 072100 – Thermal Insulation as it applies to Cavity Wall Insulation.
 2. Work is to include Cavity Wall Insulation (Mineral Wool Board and Extruded Polystyrene Board).
 - b. Revise Part F. Bid Package #6:
 1. Work is to include all 077200 Roof Accessories.
 - c. Revise Part G. Bid Package #7:
 1. Work is to include all 077200 Roof Accessories.
 - d. Revise Part N. Bid Package #14:
 1. Work is to include only Area B (Residence Hall)
3. 047200 CAST STONE MASONRY:
 - a. Delete Section in its entirety.
4. 075300 ELASTOMERIC MEMBRANE ROOFING:
 - a. Clarify Part 3.03: Sound absorbing glass fiber insulation strips to be installed at Area A (Dining Facility) acoustic perforated decking only .
5. 077200 ROOF ACCESSORIES:
 - a. Add Roof Hatch Guardrail System:

2.02 ROOF HATCH GUARDRAIL

- A. BASIS OF DESIGN: BILCO COPANY BIL-GUARD ROOF HATCH RAILING MODEL RL-E.
- B. Additional approved manufacturers:
 1. Acudor Products Inc:
 2. Dur-Red Products
 3. Milcor by Commercial Product Group of Hart & Cooley
 4. Babcock-Davis
 5. Substitutions: See Section 016000 – Product Requirements

- C. Hatch Rail System. Furnish and install where indicated on plans hatch rail system. The hatch rail system shall be field assembled and installed per the manufacturer's instructions.
- D. Performance characteristics:
1. High visibility safety yellow color shall be molded in.
 2. Hatch rail system shall attach to the cap flashing of the roof hatch and shall not penetrate any roofing material.
 3. Hatch rail system shall satisfy the requirements of OSHA 29 CFR 1910.23 and shall meet OSHA strength requirements with a factor of safety of two.
 4. UV and corrosion resistant construction with a twenty-five year warranty.
 5. Self-closing gate shall be provided with hatch rail system.
- E. Posts and Rails: Shall be round pultruded reinforced fire retardant yellow fiberglass treated with a UV inhibitor.
- F. Hardware: Mounting brackets shall be 1/4" thick hot dip galvanized steel. Hinges and post guides shall be 6063T5 aluminum. Fasteners shall be Type 316 stainless steel.
6. 081113 HOLLOW METAL DOORS AND FRAMES:
- a. Doors B106, B118, B119, B131 at the Storm Shelter shall be 14 ga Hollow Metal Frames with 14 ga Hollow Metal Doors per Part 2.03.D:
- D. Exterior Doors Windstorm (Tornado) Type:
1. Continuously welded seamless edge.
 2. Core: Vertical steel stiffeners with polyurethane core.
 3. Top Closures: 12 ga. end channel, flush with top of door. Fully welded to door faces.
 4. 12 ga bottom end channel.
 5. 14 ga. face skins.
 6. 14 ga. closer reinforcement.
 7. Additional internal reinforcement for oversized doors per manufacturer's recommendation.
 7. Galvanizing: All components hot-dipped zinc-iron alloy-coated (galvannealed) in accordance with ASTM A653/A653M, with manufacturer's standard coating thickness.
 8. Bottom Undercut: 5/8".
 9. Insulating Value: U-value of .1 when tested in accordance with ASTM C1363.
 10. Product: StormPro 361 or approved equal.
7. 087100 DOOR HARDWARE:
- a. Revise per the attached Section 087100. Revisions include:
 1. HS #7: FEMA Doors; modified Function description. This is a Passage Function on the exit hardware.
 2. HS #25: Stairwell Doors; Added Mag Holder.
 3. HS #29: Deleted Elec. Strike, added one ELR Exit Device, power supply and power transfer.
 4. HS #32: Deleted Elec. Strike, added double cylinder electrified mortise lock.
 5. HS #39: Deleted Elec. Strike, added electrified cylindrical lock.
8. 088000 GLAZING:
- a. Part 2.01.D: Type 1 Glazing shall be used at all Residential Hall Aluminum Storefront and Curtainwall locations. Glazing Type 2 does not apply to the Residence Hall (Area B).

9. 142010 PASSENGER ELEVATORS
 - a. Add Schumacher Elevator Company to the Approved Manufacturer list.

DRAWINGS

1. G1.0 INDEX OF DRAWINGS:
 - a. Add Sheets A1.13 ENLARGED PLANS and A1.14 ENLARGED PLANS to the Sheet Index
2. A1.1B FIRST FLOOR PLAN – RESIDENCE HALL:
 - a. Revise Door B100 to swing in the opposite direction (Project North).
3. A1.3 THIRD FLOOR PLAN – RESIDENCE HALL
 - a. Revise ELECT B307, FLEX 308, CUST/STOR B309 layout per the attached partial Drawing.
 - b. Add 055000 STEEL LADDER at the Roof Hatch location per the attached partial Drawing.
4. A1.4 ROOF PLAN
 - a. Revise the location of the Roof Hatch per the attached partial Drawing.
 - b. Add 077200 GUARDRAIL around the Roof Hatch per the attached partial Drawing.
 - c. Add 075300 WALKWAY PADS per the attached partial Drawing.
 - d. The Roof Curb knee wall shall be 061000 2x6 WALL W/ SHEATHING & BATT INSULATION.
 - e. Replace all 047200 CAST STONE UNIT references to 076200 CAP FLASHING.
5. A1.10, A1.11, A1.12 RESIDENTIAL SUITE PLANS AND ELEVATIONS
 - a. The Unit Entry Doors shall be Hardware Set #5.
 - b. The Unit Mechanical Closets shall be Hardware Set #6.
6. A1.13 ENLARGED FLOOR PLAN
 - a. Add the attached Sheet to the Drawing Set.
7. A1.14 ENLARGED FLOOR PLAN
 - a. Add the attached Sheet to the Drawing Set.
8. A3.10 BUILDING ELEVATIONS-RESIDENCE HALL
 - a. Replace all 047200 CAST STONE UNIT references to 076200 CAP FLASHING.
9. A5.10 WALL SECTIONS
 - a. Replace all 047200 CAST STONE UNIT references to 076200 CAP FLASHING.
 - b. Replace the Detail at the Third Floor line with the attached revised DETAIL S7/A6.10 showing the combined detail of the brick shelf and loose window lintel.
 - c. Provide Stud Cavity Batt Insulation all walls per the Specifications and Details.
10. A5.12 VERTICAL CIRCULATION PLANS AND SECTIONS
 - a. Revise Stair #2 to 055100 STEEL PAN STAIR.
11. A5.13 VERTICAL CIRCULATION DETAILS
 - a. Revise DETAILS A1/A5.13, A12/A5.13, A17/A5.13, M1/A5.13 per the attached Drawing.
12. A6.10 DETAILS
 - a. DETAIL S19/A6.10: Replace the Cast Stone Parapet Cap with Cap Flashing per the attached Detail.
 - b. All 085414 COMPOSITE TRIM size at windows shall be 4/4 nominal min. thickness (3/4" actual).
13. A6.11 DETAILS
 - a. DETAIL S1/A6.11: Provide one Burnished CMU Veneer Mock-Up and one Brick Veneer Mock-Up as shown on the diagram.
14. A7.1 DOOR SCHEDULE
 - a. Door B109 shall have a 60M rating.
 - b. Door B103.1 does not require a rating.
15. S1.1 STRUCTURAL GENERAL NOTES / DESIGN DATA AND SCHEDULES
 - a. Revise TYPICAL OPENINGS FRAMING SCHEDULE lintel mark L-11 header size to (3) 2x10.

- b. At TYPICAL OPENINGS FRAMING SCHEDULE, add the following:

INTERIOR (NON-LOAD BEARING OPENINGS) PER AF&PA WCD 1 AND AS FOLLOWS:

JAMB (KING) STUD - ONE, MATCH WALL STUD SIZE

SINGLE BEARING STUD - ONE, MATCH WALL STUD SIZE

HEADER - TWO 2X6'S FOR OPENINGS LESS THAN 36"

TWO 2X8'S FOR OPENINGS BETWEEN 36" AND 48"

16. S2.3B THIRD LEVEL FRAMING PLAN

- a. Revise all exterior window header sizes to (3) 2x10. See DETAIL S7/A6.10 attached for window header framing at the joist bearing.

17. S2.4B ROOF FRAMING PLAN

- a. Relocate Roof Hatch opening per attached Drawing to match Architectural Plans.

END OF ADDENDUM

SECTION 087100

DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Finish Hardware for door openings, except as otherwise specified herein.
 - 1. Door hardware for steel (hollow metal) doors.
 - 2. Door hardware for aluminum doors.
 - 3. Door hardware for wood doors.
 - 4. Door hardware for other doors indicated.
 - 5. Keyed cylinders as indicated.

- B. Related Sections:
 - 1. Division 8: Aluminum Doors and Frames.
 - 2. Division 8: Hollow Metal Doors and Frames.
 - 3. Division 8: Wood Doors.
 - 4. Division 26: Electrical.
 - 5. Division 28: Electronic Security.

- C. References: Comply with applicable requirements of the following standards. Where these standards conflict with other specific requirements, the most restrictive shall govern.
 - 1. Builders Hardware Manufacturing Association (BHMA).
 - 2. NFPA 101 - Life Safety Code.
 - 3. NFPA 80 - Fire Doors and Windows.
 - 4. ANSI-A156.xx - Various Performance Standards for Finish Hardware.
 - 5. UL10C - Positive Pressure Fire Test of Door Assemblies.
 - 6. ANSI-A117.1 - Accessible and Usable Buildings and Facilities.
 - 7. DHI /ANSI A115.IG - Installation Guide for Doors and Hardware.
 - 8. ICC - International Building Code.

- D. Intent of Hardware Groups:
 - 1. Should items of hardware not definitely specified be required for completion of the Work, furnish such items of type and quality comparable to adjacent hardware and appropriate for service required.
 - 2. Where items of hardware aren't definitely or correctly specified, are required for completion of the Work, a written statement of such omission, error, or other discrepancy to be submitted to Architect, prior to date specified for receipt of bids for clarification by addendum; or, furnish such items in the type and quality established by this specification, and appropriate to the service intended.

1.2 SUBSTITUTIONS

- A. Comply with requirements of Division 1.

1.3 SUBMITTALS

- A. Comply with requirements of Division 1.

- B. Special Submittal Requirements: Combine submittals of this Section with Sections listed below to ensure the "design intent" of the system/assembly is understood and can be reviewed together.

- C. Product Data: Manufacturer's specifications and technical data including the following:
 - 1. Detailed specification of construction and fabrication.
 - 2. Manufacturer's installation instructions.
 - 3. Wiring diagrams for each electric product specified. Coordinate voltage with electrical before submitting.
 - 4. Submit 6 copies of catalog cuts with hardware schedule.
 - 5. Provide 9001-Quality Management and 14001-Environmental Management for products listed in Materials Section 2.2.

- D. Shop Drawings - Hardware Schedule: Submit electronic copy of detailed hardware schedule in a vertical format.
 - 1. List groups and suffixes in proper sequence.
 - 2. Completely describe door and list architectural door number.
 - 3. Manufacturer, product name, and catalog number.
 - 4. Function, type, and style.
 - 5. Size and finish of each item.
 - 6. Mounting heights.
 - 7. Explanation of abbreviations and symbols used within schedule.
 - 8. Detailed wiring diagrams, specially developed for each opening, indicating all electric hardware, security equipment and access control equipment, and door and frame rough-ins required for specific opening.

- E. Templates: Submit templates and "reviewed Hardware Schedule" to door and frame supplier and others as applicable to enable proper and accurate sizing and locations of cutouts and reinforcing.
 - 1. Templates, wiring diagrams and "reviewed Hardware Schedule" of electrical terms to electrical for coordination and verification of voltages and locations.

- F. Samples: (If requested by the Architect)

- G. Contract Closeout Submittals: Comply with requirements of Division 1 including specific requirements indicated.
 - 1. Operating and maintenance manuals: Submit 3 sets containing the following.
 - a. Complete information in care, maintenance, and adjustment, and data on repair and replacement parts, and information on preservation of finishes.
 - b. Catalog pages for each product.
 - c. Name, address, and phone number of local representative for each manufacturer.
 - d. Parts list for each product.
 - 2. Copy of final hardware schedule, edited to reflect, "As installed".
 - 3. Copy of final keying schedule
 - 4. As installed "Wiring Diagrams" for each piece of hardware connected to power, both low voltage and 110 volts.
 - 5. One set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

1.4 QUALITY ASSURANCE

- A. Comply with requirements of Division 1.
 - 1. Statement of qualification for distributor and installers.
 - 2. Statement of compliance with regulatory requirements and single source responsibility.
 - 3. Distributor's Qualifications: Firm with 3 years experience in the distribution of commercial hardware.
 - a. Distributor to employ full time Architectural Hardware Consultants (AHC) for the purpose of scheduling and coordinating hardware and establishing keying schedule.
 - b. Hardware Schedule shall be prepared and signed by an AHC.

4. Installer's Qualifications: Firm with 3 years experienced in installation of similar hardware to that required for this Project, including specific requirements indicated.
 5. Regulatory Label Requirements: Provide testing agency label or stamp on hardware for labeled openings.
 - a. Provide UL listed hardware for labeled and 20 minute openings in conformance with requirements for class of opening scheduled.
 - b. Underwriters Laboratories requirements have precedence over this specification where conflict exists.
 6. Single Source Responsibility: Except where specified in hardware schedule, furnish products of only one manufacturer for each type of hardware.
- B. Review Project for extent of finish hardware required to complete the Work. Where there is a conflict between these Specifications and the existing hardware, notify the Architect in writing and furnish hardware in compliance with the Specification unless otherwise directed in writing by the Architect.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Packing and Shipping: Comply with requirements of Division 1.
1. Deliver products in original unopened packaging with legible manufacturer's identification.
 2. Package hardware to prevent damage during transit and storage.
 3. Mark hardware to correspond with "reviewed hardware schedule".
 4. Deliver hardware to door and frame manufacturer upon request.
- B. Storage and Protection: Comply with manufacturer's recommendations.

1.6 PROJECT CONDITIONS

- A. Coordinate hardware with other work. Furnish hardware items of proper design for use on doors and frames of the thickness, profile, swing, security and similar requirements indicated, as necessary for the proper installation and function, regardless of omissions or conflicts in the information on the Contract Documents.
- B. Review Shop Drawings for doors and entrances to confirm that adequate provisions will be made for the proper installation of hardware.

1.7 WARRANTY

- A. Manufacturer's Warranty:
1. Closers: Ten years.
 2. Exit Devices: Five years.
 3. Locksets & Cylinders: Three years.
 4. All other Hardware: Two years.

1.8 OWNER'S INSTRUCTION

- A. Instruct Owner's personnel in operation and maintenance of hardware units.

1.9 MAINTENANCE

- A. Extra Service Materials: Deliver to Owner extra materials from same production run as products installed. Package products with protective covering and identify with descriptive labels. Comply with Division 1 Closeout Submittals Section.

1. Special Tools: Provide special wrenches and tools applicable to each different or special hardware component.
2. Maintenance Tools: Provide maintenance tools and accessories supplied by hardware component manufacturer.
3. Delivery, Storage and Protection: Comply with Owner's requirements for delivery, storage and protection of extra service materials.

B. Maintenance Service: Submit for Owner's consideration maintenance service agreement for electronic products installed.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. The following manufacturers are approved subject to compliance with requirements of the Contract Documents. Approval of manufacturers other than those listed shall be in accordance with requirements of Division 1.

<u>Item</u>	<u>Manufacturer</u>	<u>Approved</u>
Hinges	Stanley	Hager, Bommer, Ives
Continuous Hinges	ABH	Stanley, Select, Ives
Locksets	Stanley Best	Schlage
Cylinders/Cores	Stanley Best	<u>No Substitution</u>
Electrified Locksets	Stanley Best, Basis G	<u>No Substitution</u>
Power Transfers	Von Duprin	ABH, Stanley
Exit Devices	Von Duprin	Precision
Closers	LCN 4000 Series	Stanley
Automatic Operators	LCN 4642	Stanley D-4990, Besam Swingmaster 450 Series
Magnetic Holders	ABH	Rixson
Push/Pull Plates	Trimco	Burns
Protection Plates	Trimco	Hiawatha, Burns
Overhead Stops	ABH	Glynn Johnson
Door Stops	Trimco	Burns
Flush Bolts	ABH	Trimco
Coordinator & Brackets	ABH	Trimco, LCN
Threshold & Gasketing	National Guard	Zero
Key Control Cabinet	Telkee	Lund, MMF

2.2 MATERIALS

- A. Hinges:
1. Template screw hole locations.
 2. Bearings are to be fully hardened.
 3. Bearing shell is to be consistent shape with barrel.
 4. Minimum of 2 permanently lubricated non-detachable bearings on standard weight hinge and 4 permanently lubricated bearing on heavy weight hinges.
 5. Equip with easily seated, non-rising pins.
 6. Non Removable Pin screws shall be slotted stainless steel screws.
 7. Hinges shall be full polished, front, back and barrel.
 8. Hinge pin is to be fully plated.
 9. Bearing assembly is to be installed after plating.
 10. Sufficient size to allow 180-degree swing of door.
 11. Provide hinge type as listed in schedule.

12. Furnish 3 hinges per leaf to 7 foot 6 inch height. Add one for each additional 30 inches in height or fraction thereof.
13. Tested and approved by BHMA for all applicable ANSI Standards for type, size, function and finish.
14. UL10C listed for Fire rated doors.

B. Geared Continuous Hinges:

1. Tested and approved by BHMA for ANSI A156.26-1996 Grade 1.
2. Anti-spinning through fastener.
3. UL10C listed for 3 hour Fire rating.
4. Non-handed.
5. Lifetime warranty.
6. Provide Fire Pins for 3-hour fire ratings.
7. Sufficient size to permit door to swing 180 degrees.

C. Cylindrical Grade 1 Type Locks and Latchsets:

1. Tested and approved by BHMA for ANSI A156.2, Series 4000, Operational Grade 1, Extra-Heavy Duty, and be UL10C listed.
2. Provide 9001-Quality Management and 14001-Environmental Management.
3. Fit modified ANSI A115.2 door preparation.
4. Locksets and cores to be of the same manufacturer to maintain complete lockset warranty.
5. Locksets to have anti-rotational studs that are thru-bolted.
6. Keyed lever shall not have exposed "keeper" hole.
7. Each lever to have independent spring mechanism controlling it.
8. 2-3/4 inch backset.
9. 9/16 inch throw latchbolt.
10. Provide sufficient curved strike lip to protect door trim.
11. Outside lever sleeve to be seamless, of one-piece construction made of a hardened steel alloy.
12. Keyed lever to be removable only after core is removed, by authorized control key.
13. Provide locksets with 7-pin removable and interchangeable core cylinders.
14. Hub, side plate, shrouded rose, locking pin to be a one-piece casting with a shrouded locking lug.
15. Locksets outside locked lever must withstand minimum 1400 inch pounds of torque. In excess of that, a replaceable part will shear. Key from outside and inside lever will still operate lockset.
16. Core face must be the same finish as the lockset.
17. Functions as indicated in the hardware groups.
18. Design:
 - a. Lever: Best "14"
 - b. Rose: Best "D"

D. Cylindrical Grade 2 Type Locks and Latchsets:

1. Certified by BHMA for ANSI A156.3, Series 4000, Operational Grade 2.
2. Fit modified ANSI A115.3 door preparation.
3. Locksets and cores to be of the same manufacturer to maintain complete lockset warranty.
4. 2 3/8 inch backset.
5. 1/2 inch throw latchbolt.
6. Provide locksets with 7-pin core.
7. Functions as indicated in the hardware groups.
8. Design:
 - a. Lever: Best "14"
 - b. Rose: Best "D"

- E. Electronic Lock System Description: At all electronic access openings indicated, furnish and install system equal to Best Access System. B.A.S.I.S G as scheduled in the hardware sets.
1. Complete Programming, data storage and software.
 2. Connector package, encoder and cable, as necessary, to interface with minimum recommended computer system.
 3. Lock units as detailed in hardware sets.
 4. Batteries.
 5. Cards.
 6. Portable programmer for locks units.
 7. Special tools.
 8. Operating manuals.
 9. On-site training of staff.
- F. B.A.S.I.S Electronic Lock and Trims: At all electronic access openings, furnish and install system equal to Best Access System. B.A.S.I.S G.
1. 9KG3 series Cylindrical type locksets with security head screws (SH). Cylindrical lock chassis, shall meet or exceeding the American National Standards ANSI A156.2, Series 4000, Grade 1 Operational, for use on label doors up to 3 hours, A label.
 - a. 9KG3-7DV14MS with MS Magnetic stripe reader.
 2. The swipe reader is to be vandal resistant.
 3. Locks shall be opened by a correctly coded card, upon removal after swiping.
 4. All Cylindrical type shall be enabled through the use of an internal solenoid or motor. The internal solenoid/motor drive mechanism shall be operated by an electronic signal when presented with a valid magnetic stripe card and pin. The latchbolt shall also be operated by lever either side, except when outside lever is locked by internal solenoid/motor drive mechanism.
 5. Finish shall be BHMA as listed in the hardware sets. Lever design shall match specified mechanical locksets listed.
 6. All locks shall permit free egress at all times from inside of room.
 7. Low battery indicator shall be provided.
 8. After card swipe, a green light shall indicate valid access; a red light and optional sounder shall indicate invalid access attempt.
 9. Lost cards in system shall be replaceable and upon swipe of new sequential card the lost card shall be invalidated in lock. This issuance of a new sequentially encoded card and invalidation process shall not require reprogramming of lock by any means other than new card insertion into reader.
 10. The lock shall reset to operating mode or on a programmable time should the handle not be activated.
- G. Cylinders:
1. Provide the necessary cylinder housings, collars, rings & springs as recommended by the manufacturer for proper installation.
 2. Provide the proper cylinder cams or tail piece as required to operate all locksets and other keyed hardware items listed in the hardware sets.
 3. Coordinate and provide as required for related sections.
- H. Exit Devices:
1. Tested and approved by BHMA for ANSI 156.3, Grade 1.
 2. Provide 9001-Quality Management and 14001-Environmental Management.
 3. Furnish UL or recognized independent laboratory certified mechanical operational testing to 9 million cycles minimum.
 4. Provide a deadlocking latchbolt.
 5. Non-fire rated exit devices shall have cylinder dogging.
 6. Touchpad shall be "T" style.

7. Exposed components shall be of architectural metals and finishes.
8. Lever design shall match lockset lever design.
9. Provide strikes as required by application.
10. Fire exit devices to be listed for UL10C.
11. UL listed for Accident Hazard.
12. Shall consist of a cross bar or push pad, the actuating portion of which extends across, shall not be less than one half the width of the door leaf.
13. Aluminum vertical rod assemblies are acceptable only when provide with the manufacturers optional top and bottom stainless steel rod guard protectors.
14. Design:
 - a. Lever: "D"
 - b. Trim: 4900

I. Door Closers:

1. Tested and approved by BHMA for ANSI 156.4, Grade 1.
2. UL10C certified.
3. Provide 9001-Quality Management and 14001-Environmental Management.
4. Closer shall have extra-duty arms and knuckles.
5. Conform to ANSI 117.1.
6. Maximum 2 7/16 inch case projection with non-ferrous cover.
7. Separate adjusting valves for closing and latching speed, and backcheck.
8. Provide adapter plates, shim spacers and blade stop spacers as required by frame and door conditions.
9. Full rack and pinion type closer with 1½" minimum bore.
10. Mount closers on non-public side of door, unless otherwise noted in specification.
11. Closers shall be non-handed, non-sized and multi-sized.

J. Low Energy Operators:

1. Conform to ANSI/BHMA A156.19 as a low energy power opening device.
2. Be listed under UL228, UL325, UL10B, UL10C, UBC 7.2 and FCC listed.
3. Shall be non-handed.
4. Be rated for door panels weighing up to 350 lbs (160 kg).
5. The manual door closer within the Low Energy Operator shall be adjusted to meet Americans with Disabilities Act (ADA) 5 lbs opening force [Push-Side applications only]
6. Operator shall be isolated from mounting plate with rubber mounts to mitigate the transmission of forces between the door and the operator.
7. Shall have a position encoder to communicate with microprocessor.
8. Incorporate a resetable powered operation counter that tracts both powered and non-powered cycling of the Operator.
9. Incorporate the following adjustable settings:
 - a. Hold Open Timer, to 28 seconds
 - b. Open Speed
 - c. Backcheck Speed
 - d. Vestibule Sequence Timer
10. Include DIP switch controls for:
 - a. On board diagnostics
 - b. Power close
 - c. Push and Go operation
 - d. Time delay logic for electrified hardware components
11. Include terminals for auxiliary controls including:
 - a. Activation devices; provide two discrete inputs
 - b. Vestibule sequencing.
12. Control switches including:
 - a. Day/Night open (illuminated).

- b. Power On-Off.
- 13. Includes adhesive Low Energy Operator mounting templates.
- 14. R-14 Aluminum Allow Materials.
- 15. For non-powered operation, the unit shall function as a standard door closer with adjustable spring force size 1 thru 6.

- K. Door Bolts: Flush bolts for wood or metal doors.
 - 1. Provide a set of Automatic bolts, Certified ANSI/BHMA 156.3 Type 25 for hollow metal label doors.
 - 2. Provide a set of Automatic bolts, Certified ANSI/BHMA 156.3 Type 27 at wood label doors.
 - 3. Manual flush bolts, Certified ANSI/BHMA 156.16 at openings where allowed local authority.
 - 4. Provide Dust Proof Strike, Certified ANSI/BHMA 156.16 at doors with flush bolts without thresholds.

- L. Coordinator and Brackets: Provide a surface mounted coordinator when automatic bolts are used in the hardware set.
 - 1. Coordinator, Certified ANSI/BHMA A1156.3 Type 21A for full width of the opening.
 - 2. Provide mounting brackets for soffit applied hardware.
 - 3. Provide hardware preparation (cutouts) for latches as necessary.

- M. Door Stops: Provide a dome floor or wall stop for every opening as listed in the hardware sets.
 - 1. Wall stop and floor stop shall be wrought bronze, brass or stainless steel.
 - 2. Provide fastener suitable for wall construction.
 - 3. Coordinate reinforcement of walls where wall stop is specified.
 - 4. Provide dome stops where wall stops are not practical. Provide spacers or carpet riser for floor conditions encountered.

- N. Overhead Stops: Provide a surface mounted or concealed overhead when a wall stop cannot be used or when listed in the hardware set.
 - 1. Surface or concealed overhead stops shall be heavy duty bronze or stainless steel.

- O. Pulls with Plates: Provide with four beveled edges ANSI J301, .050 thickness plates with ANSI J401 Pull as listed in hardware set. Provide proper fasteners for door construction.

- P. Kickplates: Provide with four beveled edges ANSI J102, 8 inches high by width less 2 inches on single doors and 1 inch on pairs of doors. Furnish oval-head countersunk screws to match finish.

- Q. Armor Plates: Provide ANSI J101 with four beveled edges, 40 inches high by width less 1 inch on single or pairs of doors. Furnish oval-head countersunk screws to match finish.
 - 1. Provide cutouts for hardware as listed in the hardware sets.

- R. Power Transfer: Power transfer device shall be a steel housing and flexible tube. Secure and inconspicuous channel is to bring power from the frame to the door.
 - 1. Model: Precision EPT-5.
 - 2. Tube shall accept up to 5/16" wire bundle and accommodate a door swing of 120 Deg.
 - 3. Wires as required by others.

- S. Magnetic Door Holders: Provide magnetic door holders with Tri-Voltage that can be wired 12VDC, 24V AC/DC or 120V AC.
 - 1. Wall magnetic door holders shall be Recessed.
 - 2. Armature shall be thru-bolted and can be provided with any projection required.
 - 3. Models will be available in US28, sprayed finishes and US32D.
 - 4. Floor mounted shall be provided for a single door or double door hold open application.

- T. Power Supply: Provide power supply for (ELR) Electric Latch Retraction exit devices
1. Motherboard will accept up to four plug-in Control Modules. Provide the appropriate necessary control module to operate the number of ELR exit devices used at each opening. The Control Module shall include a Time delay Feature, variable (0-4 minutes) latch retraction period in response to a momentary input.
 2. UL Listed for class II output
 3. Include circuit breakers for protection of motherboard
 4. 115 or 230 Volt user selectable switch, with AC input= 115 Volt at 1 Amp
 5. Control module shall include Fire alarm terminal and Auxiliary contacts for remote signaling.
 6. Optional card for Battery Backup (BT) power tap module to operate a Card reader or when ELR devices require battery backup (Lead Acid Batteries are not included and is to be furnished by others)
 7. Precision ELR150 Series with the required modules.
- U. Power Supply: PS160 - Use with Exit Alarm Devices. The power supply uses 120 VAC at 0.8 amp input. A 230 VAC at 0.3 ampere is available. The power shall be able to control up to (4) Exit Alarm Devices. The filtered and regulated output power is field selectable for 12 or 24 VDC.
1. AC input is protected via a manually reset circuit breaker
 2. DC output is protected via an auto-reset fuse (PTC)
 3. Box shall include a key lock.
- V. Door Position Switch: Provide door position switch for door status monitoring as indicated in hardware sets.
1. At all fired rated doors frames, switch position preparation will be provided by the door and frame manufacturer or by an authorized label service agent.
- W. Gaskets:
1. Provide continuous weather-strip gaskets on exterior doors.
 2. Provide UL listed gaskets for labeled openings.
 3. Provide UL10C Positive Pressure rated seal set when required.
 4. Apply to head and jamb, forming seal between door and frame.
 5. All seals shall be finished to match adjacent frame color or as specified.
- X. Sweeps: Surface mounted for all exterior doors and where listed in the hardware sets.
1. Door seal shall be resilient seal of Neoprene.
- Y. Thresholds: Thresholds shall be aluminum beveled type with maximum height of 1/2" for conformance with ADA requirements. Furnish as specified and per details. Provide fasteners and screws suitable for floor conditions.
- ~~Z. Key Control Cabinet: Provide one wall mounted key cabinet complete with hooks, index and tags to accommodate 50% expansion. Coordinate mounting location with architect.~~
- ~~AA. Key Control Software: Provide one, Keystone® 600N key management control software. Shall include general features:~~
- ~~1. Password restricted logins.~~
 - ~~2. List all keys and items currently due back (or due back by any day designated).~~
 - ~~3. Lists all cores and their location, building and doors, and cross references people to cores, doors, and building they access.~~
 - ~~4. Comprehensive list of reports available as an on screen menu.~~
 - ~~5. Built-in easy to use backup program.~~
 - ~~6. Program always displays date of last backup.~~
 - ~~7. Dynamic searching capabilities for all records.~~
 - ~~8. On screen indicator shows when historical info. Is present for a record.~~

- ~~9. On screen indicator appears when notes are present on a record.~~
- ~~10. Able to operate in an NTFS network environment with TCPIP protocol.~~
- ~~11. Multiple users can access program at the same time.~~
- ~~12. Software shall include a "Best" Automated Pin Segment Calculator and a Manual Pin Segment Calculator for authorized "Best" building lock shop facilities.~~
- ~~13. Software program is to be compatible with Windows NT, 2000 or XP with TCPIP protocol.~~

BB. Silencers: Furnish silencers on all interior frames, 3 for single doors, 2 for pairs. Omit where any type of gasketing occurs.

2.3 FINISH

- A. Designations used in Schedule of Finish Hardware - 3.05, and elsewhere to indicate hardware finishes are those listed in ANSI/BHMA A156.18 including coordination with traditional U.S. finishes shown by certain manufacturers for their products
- B. Powder coat door closers to match other hardware, unless otherwise noted.
- C. Aluminum items shall be finished to match predominant adjacent material. Gasketing to coordinate with frame color.

2.4 KEYS AND KEYING

- A. Provide keyed brass construction cores and keys during the construction period. Construction control and operating keys and core shall not be part of the Owner's permanent keying system or furnished in the same keyway (or key section) as the Owner's permanent keying system. Permanent cores and keys (prepared according to the accepted keying schedule) will be furnished to the Owner.
- B. Cylinders, removable and interchangeable core system: Best Standard 7-pin.
- C. Permanent keys and cores: Stamped with the applicable key mark for identification. These visual key control marks or codes will not include the actual key cuts. Permanent keys will also be stamped "Do Not Duplicate."
- D. Transmit Grand Masterkeys, Masterkeys and other Security keys to Owner by Registered Mail, return receipt requested.
- E. Furnish keys in the following quantities:
 - 1. 1 each Grand Masterkeys
 - 2. 4 each Masterkeys
 - 3. 2 each Change keys each keyed core
 - 4. 15 each Construction masterkeys
 - 5. 1 each Control keys
- F. The Owner, or the Owner's agent, will install permanent cores and return the construction cores to the Hardware Supplier. Construction cores and keys remain the property of the Hardware Supplier.
- G. Keying Schedule: Arrange for a keying meeting, and programming meeting with Architect Owner and hardware supplier, and other involved parties to ensure locksets and locking hardware, are functionally correct and keying and programming complies with project requirements. Furnish 3 typed copies of keying and programming schedule to Architect.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verification of conditions: Examine doors, frames, related items and conditions under which Work is to be performed and identify conditions detrimental to proper and or timely completion.
 - 1. Do not proceed until unsatisfactory conditions have been corrected.

3.2 HARDWARE LOCATIONS

- A. Mount hardware units at heights indicated in the following publications except as specifically indicated or required to comply with the governing regulations.
 - 1. Recommended Locations for Builder's Hardware for Standard Steel Doors and Frames, by the Door and Hardware Institute (DHI).
 - 2. Recommended locations for Architectural Hardware for flush wood doors (DHI).
 - 3. WDMA Industry Standard I.S.-1A-04, Industry Standard for Architectural wood flush doors.

3.3 INSTALLATION

- A. Install each hardware item per manufacturer's instructions and recommendations. Do not install surface mounted items until finishes have been completed on the substrate. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- B. Conform to local governing agency security ordinance.
- C. Install Conforming to ICC/ANSI A117.1 Accessible and Usable Building and Facilities.
 - 1. Adjust door closer sweep periods so that from the open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches from the latch, measured to the landing side of the door.
- D. Installed hardware using the manufacturers fasteners provided. Drill and tap all screw holes located in metallic materials. Do not use "Riv-Nuts" or similar products.

3.4 FIELD QUALITY CONTROL AND FINAL ADJUSTMENT

- A. Contractor/Installers, Field Services: After installation is complete, contractor shall inspect the completed door openings on site to verify installation of hardware is complete and properly adjusted, in accordance with both the Contract Documents and final shop drawings.
 - 1. Check and adjust closers to ensure proper operation.
 - 2. Check latchset, lockset, and exit devices are properly installed and adjusted to ensure proper operation.
 - a. Verify levers are free from binding.
 - b. Ensure latchbolts and dead bolts are engaged into strike and hardware is functioning.
 - 3. Report findings, in writing, to architect indicating that all hardware is installed and functioning properly. Include recommendations outlining corrective actions for improperly functioning hardware if required.

3.5 SCHEDULE OF FINISH HARDWARE

Manufacturer List

<u>Code</u>	<u>Name</u>
AI	Aiphone Corporation
AB	Architectural Builders Hardware
BE	Best Access Systems
BY	By Others
HES	HES
IV	Ives
NA	National Guard
PR	Precision
SD	Stanley Door Closers
SENT	Sentrol
SN	Securitech
ST	Stanley
TR	Trimco

Finish List

<u>Code</u>	<u>Description</u>
AL	Aluminum
26D	Satin Chrome
600	Primed for Painting
619	Satin Nickel Plated, Clear Coated
626	Satin Chromium Plated
628	Satin Aluminum, Clear Anodized
630	Satin Stainless Steel
689	Aluminum Painted
GRAY	Gray
GREY	Grey
US26D	Chromium Plated, Dull
US32D	Stainless Steel, Dull

Option List

<u>Code</u>	<u>Description</u>
CD	Cylinder Dogging
FL	Fire Exit Hardware
LM	Lost Motion
S3	ANSI Strike Package
SH	Security Head Screws
SN	Sex Nuts (Pkg. of 4)
3/4	3/4" Throw Latch
3RO	Prefix option for 2000 Apex Series
8CE	Extended Life Battery
ALW	Alarm, Remote Power
ELR	Electric Latch Retraction
LBR	Less Bottom Rod
MCS	Mullion Cap Spacer (600 Finish)
NRP	Non Removeable Pin Std/Heavy Wt Hinge
STK	Standard Strike Package
STS	Stainless Pins - 4 1/2", 5"
AL/O	Abrasive Lever - Outsides
S300	Std. Strike - Rim and Top of Svr Devices

S301	Opt. Roller. Strk - Rim and Top of Svr
S458	Opt. Roller. Strike - Rim Devices
S460	Standard Bottom Strike - Svr & Cvr
S519	Standard Top Strike - Cvr
P45HD-110	Spacer Block HD Arm on Rabbet
P45HD-112	Angle Brkt. - Shoe Support HD Arms
C-SUNK HOLES	Counter Sinking of Armor and Kick Plates

Hardware Sets

SET #1 - Int - Sgl - Unit Bedroom

Doors: HS1 – 160 Doors (Contractor to verify quantities)

3 Hinges	BY PREHUNG DOOR MANUFACTURER	626	BY
1 Lockset	7KC2-7AB14D STD STK	626	BE
1 Wall Bumper	1270WV	630	TR

SET #2 - Int - Sgl - Unit Privacy

Doors: HS2 – 98 – Doors (Contractor to verify quantities)

3 Hinges	BY PREHUNG DOOR MANUFACTURER	626	BY
1 Privacy Set	7KC2-0L14D STK	626	BE
1 Wall Bumper	1270WV	630	TR
1 Coat Hook	3070-1	626	TR

SET #3 - Int - Sgl - Unit Closet

Doors: HS3 – 3 Doors – Unit B115 (Contractor to verify quantities)

3 Hinges	BY PREHUNG DOOR MANUFACTURER	626	BY
1 Exit Set	7KC2-0Y14D STK	626	BE
1 Hinge Pin Stop	1240	619	TR

SET #4 – Int - Sgl – Bi-Fold Unit Closet

Doors: HS4 – 1 Doors – Unit B115 (Contractor to verify quantities)

Hinges, Track, Guides, Brackets, Knobs	BY PREHUNG DOOR MANUFACTURER	626	BY
--	------------------------------	-----	----

SET #5 - Int - Sgl - Unit Entry - Access Control

Doors: HS5 – 51 Doors (Contractor to verify quantities)

3 Hinges	FBB179 4 1/2 X 4 1/2	US26D	ST
----------	----------------------	-------	----

1 Electro-mech Lock	9KG3-7DV14MS STD 3/4 8CE S3 SH	626	BE
1 Door Closer	CLD-4550 S P45HD-110 P45HD-112 SN	689	SD
1 Gasketing	5050 B-17 17'		NA

Function:

Battery Powered Lockset:

1. Doors normally closed and locked. Presenting valid credential to card reader on outside signals release of lockset allowing entry. Door re-locks after closure. Mechanical key in outside cylinder retracts latchbolt for entry.
2. When power is lost, doors fail in locked position (Fail Secure).
3. Free Egress at all times by lever.

SET #6 - Int - Sgl - Unit Mech

Doors: HS6 – 51 Doors (Contractor to verify quantities)

1 Spring Hinge Set	2079 4 1/2 X 4 1/2	US26D	ST
1 Lockset	9K3-7D14D STD AL/O S3	626	BE
1 Gasketing	5050 B-17 17'		NA

SET #7 - Int - Sgl - FEMA

Doors: B118, B119, B131, B106

3 Hinges	FBB168 5 X 4 1/2	US26D	ST
1 Mortise Cylinder	1E-74 STD	626	BE
1 Magnetic Holder	2100	US32D	AB
1 Door Closer	CLD-4550 STD W/PA BRKT SN	689	SD
1 Wall Bumper	1270WV	630	TR
1 Multi-Point Exit Device	84T41-G1-SBD-HVL	630	SN

Function:

1. Doors held open by magnetic holders. Magnetic Holders will release with Storm Warning system, closing and latching doors. When door is closed, multi-point latching device is automatically triggered, latching doors.
2. Access from secure side by lever at all times allowing access to Safe Zone, re-latches on door closure.
3. Free Egress at all times by touchbar.

~~SET #8 - Int - Sgl - Push/Pull~~

~~Doors: A111, A112, A130~~

3 Hinges	FBB179 4 1/2 X 4 1/2	US26D	ST
1 Push/Pull Plate Combo	1895 4B	630	TR
1 Door Closer	CLD 4550 STD W/PA BRKT SN	689	SD
1 Kick Plate	KO050 10" x 2" LDW CSK	630	TR
1 Wall Bumper	1270WV	630	TR
3 Door Silencer	SR66	GRAY	IV

SET #9 - Int - Sgl - Passage

Doors: B117, B217, B232, B317, B332

3 Hinges	FBB179 4 1/2 X 4 1/2	US26D	ST
1 Passage Set	9K3-0N14D S3	626	BE
1 Wall Bumper	1270WV	630	TR
3 Door Silencers	1229A	GREY	TR

SET #10 - Int - Sgl - Passage - Closer

Doors: B132

3 Hinges	FBB179 4 1/2 X 4 1/2	US26D	ST
1 Passage Set	9K3-0N14D S3	626	BE
1 Door Closer	CLD-4550 S P45HD-110 P45HD-112 SN	689	SD
1 Armor Plate	KA050-2 34" x 2" LDW CSK UL (VERIFY)	630	TR
3 Door Silencers	1229A	GREY	TR

SET #11 - Int - Sgl - Passage - Rated

Doors: B103

3 Hinges	FBB179 4 1/2 X 4 1/2	US26D	ST
1 Passage Set	9K3-0N14D S3	626	BE
1 Door Closer	CLD-4550 STD W/PA BRKT SN	689	SD
1 Kick Plate	KO050 8" x 2" LDW CSK	630	TR
1 Wall Bumper	1270WV	630	TR
1 Gasketing	5050 B-17 17'		NA

SET #12 - Int - Sgl - Privacy - Rated

Doors: B105, B120

3 Hinges	FBB179 4 1/2 X 4 1/2	US26D	ST
1 Privacy Set	9K3-0L14D S3	626	BE
1 Door Closer	CLD-4550 STD W/PA BRKT SN	689	SD
1 Wall Bumper	1270WV	630	TR
1 Coat Hook	3070-1	626	TR
1 Gasketing	5050 B-17 17'		NA

~~**SET #13 - Int - Sgl - Storeroom - Closer**~~

~~Doors: A133, A139, A150.1~~

3 Hinges	FBB179 4 1/2 X 4 1/2	US26D	ST
1 Lockset	9K3-7D14D STD S3	626	BE
1 Door Closer	CLD-4550 STD W/PA BRKT SN	689	SD
1 Armor Plate	KA050-2 34" x 2" LDW CSK UL (VERIFY)	630	TR
1 Wall Bumper	1270WV	630	TR
3 Door Silencer	SR66	GRAY	IV

~~NOTE: Provide Trimco 1229A Door Silencers on Door A133 instead of SR66. Delete Armor Plate on Door A150.1.~~

SET #14 - Int - Sgl - Storeroom - Closer

Doors: B107, B108, B103.1

3 Hinges	FBB179 5 X 4 1/2	US26D	ST
1 Lockset	9K3-7D14D STD S3	626	BE
1 Door Closer	CLD-4550 STD W/PA BRKT SN	689	SD
1 Wall Bumper	1270WV	630	TR
3 Door Silencers	1229A	GREY	TR

SET #15 - Int - Sgl - Storeroom - Rated

Doors: B109, B200.1, B207, B208, B209, B300.1, B307

3 Hinges	FBB179 4 1/2 X 4 1/2	US26D	ST
1 Lockset	9K3-7D14D STD S3	626	BE
1 Door Closer	CLD-4550 STD W/PA BRKT SN	689	SD
1 Wall Bumper	1270WV	630	TR
1 Gasketing	5050 B-17 17'		NA

~~SET #16 - Int - Sgl - Office~~

~~Doors: A101.2, A102.2, A104.2~~

3 Hinges	FBB179 4 1/2 X 4 1/2	US26D	ST
1 Lockset	9K3-7B14D STD S3	626	BE
1 Wall Bumper	1270WV	630	TR
3 Door Silencer	SR66	GRAY	IV

~~SET #17 - Int - Sgl - Office - Closer~~

~~Doors: A101.1, A102.1, A104.1, A132, A136, A145, A146, A151, A152~~

3 Hinges	FBB179 4 1/2 X 4 1/2	US26D	ST
1 Lockset	9K3-7B14D STD S3	626	BE
1 Door Closer	CLD-4550 STD W/PA BRKT SN	689	SD
1 Wall Bumper	1270WV	630	TR
3 Door Silencer	SR66	GRAY	IV

~~NOTE: Provide Trimco 1229A Door Silencers on Doors A132, A151 and A152.~~

~~SET #18 - Int - Sgl - Classroom~~

~~Doors: A106, A126, A127~~

3 Hinges	FBB179 4 1/2 X 4 1/2	US26D	ST
1 Lockset	9K3-7R14D STD S3	626	BE

1	Wall Bumper	1270WV	630	TR
3	Door Silencer	SR66	GRAY	IV

~~SET #19 - Int - Sgl - Classroom - Closer~~

~~Doors: A105, A107, A110, A124, A131~~

3	Hinges	FBB179 4 1/2 X 4 1/2	US26D	ST
1	Lockset	9K3 7R14D STD S3	626	BE
1	Door Closer	CLD 4550 STD W/PA BRKT SN	689	SD
1	Wall Bumper	1270WV	630	TR
3	Door Silencer	SR66	GRAY	IV

~~SET #20 - Int - Sgl - Classroom - Closer~~

~~Doors: A135~~

3	Hinges	FBB179 4 1/2 X 4 1/2	US26D	ST
1	Lockset	9K3 7R14D STD S3	626	BE
1	Door Closer	CLD 4550 S P45HD 110 P45HD 112 SN	689	SD
1	Kick Plate	KO050 10" x 2" LDW CSK	630	TR
1	Wall Bumper	1270WV	630	TR
3	Door Silencers	1229A	GREY	TR

~~SET #21 - Int - Sgl - Classroom - Closer~~

~~Doors: A125.1, A125.2~~

3	Hinges	FBB179 4 1/2 X 4 1/2	US26D	ST
1	Lockset	9K3 7R14D STD S3	626	BE
1	Door Closer	CLD 4550 HS P45HD 110 P45HD 112	689	SD
3	Door Silencer	SR66	GRAY	IV

~~SET #22 - Int - Sgl - Classroom - Closer/Holder~~

~~Doors: A134, A137, A147, A154~~

3	Hinges	FBB179 4 1/2 X 4 1/2	US26D	ST
1	Lockset	9K3 7R14D STD S3	626	BE
1	Door Closer	CLD 4550 H	689	SD
1	Wall Bumper	1270WV	630	TR
3	Door Silencer	SR66	GRAY	IV

~~NOTE: Provide Trimeco 1229A Door Silencers on Door A137.~~

SET #23 - Int - Sgl - Classroom - Rated

Doors: B308, B309

3 Hinges	FBB179 4 1/2 X 4 1/2	US26D	ST
1 Lockset	9K3-7R14D STD S3	626	BE
1 Door Closer	CLD-4550 STD W/PA BRKT SN	689	SD
1 Wall Bumper	1270WV	630	TR
1 Gasketing	5050 B-17 17'		NA

~~SET #24 - Int - Sgl - Exit~~

~~Doors: A151.1~~

3 Hinges	FBB168 5 X 4 1/2	US26D	ST
1 Exit Device	3RO 2114 X 4914D S300	630	PR
1 Door Closer	CLD 4550 EDA P45HD 110 P45HD 112	689	SD
1 Kick Plate	KO050 10" x 2" LDW CSK	630	TR
1 Wall Bumper	1270WV	630	TR
3 Door Silencers	1229A	GREY	TR

SET #25 - Int - Sgl - Exit Stairwell - Rated

Doors: S101, S103, S201, S203, S301, S303

3 Hinges	FBB179 4 1/2 X 4 1/2	US26D	ST
1 Exit Device	3RO FL 2114 X 4914D S300	630	PR
1 Door Closer	CLD-4550 EDA P45HD-110 P45HD-112	689	SD
1 Magnetic Holder	2100	US32D	AB
1 Kick Plate	KO050 8" x 2" LDW CSK	630	TR
1 Wall Bumper	1270WV	630	TR
1 Gasketing	5050 B-17 17'		NA

SET #26 - Int - Pair - Storeroom

Doors: B203, B303

6 Hinges	FBB179 4 1/2 X 4 1/2	US26D	ST
1 Manual Flush Bolt Set - Wood	1857P	26D	AB
1 Lockset	9K3-7D14D STD STK	626	BE
1 Door Closer	CLD-4550 HS P45HD-110 P45HD-112	689	SD
1 Overhead Stop	4023	US32D	AB
2 Armor Plate	KA050-2 34" x 2" LDW CSK UL (VERIFY)	630	TR
1 Dust Proof Strike	1870	US26D	AB
2 Door Silencers	1229A	GREY	TR

SET #27 - Int - Pair - Exit - Rated

Doors: S202, S302

6 Hinges	FBB179 4 1/2 X 4 1/2	US26D	ST
2 Exit Device	3RO FL 2214 X 4914D LBR S301	630	PR
2 Magnetic Holder	2100	US32D	AB
2 Door Closer	CLD-4550 STD W/PA BRKT SN	689	SD
1 Smoke Seal	5075B		NA
2 Kick Plate	KO050 8" x 2" LDW CSK	630	TR
2 Wall Bumper	1270WV	630	TR
1 Gasketing	5050 B-20 20'		NA

~~**SET #28 - Int - Pair - Exit - Rated**~~~~Doors: A149.1~~

6 Hinges	FBB179 4 1/2 X 4 1/2	US26D	ST
1 Auto Flush Bolt Set - Metal	1860P	US32D	AB
1 Exit Device	3RO FL 2203 X 4903D LBR S301	630	PR
1 Rim Cylinder	12E-72 STD	626	BE
1 Coordinator	3700 SERIES	600	AB
1 Smoke Seal	5075B		NA
2 Door Closer	CLD 4550 STD W/PA BRKT SN	689	SD
2 Armor Plate	KA050-2 34" x 2" LDW CSK UL (VERIFY)	630	TR
1 Dust Proof Strike	1870	US26D	AB
1 Gasketing	5050 B-20 20'		NA

SET #29 - Int - Pair - Exit - Access - Rated

Doors: B100

6 Hinges	FBB168 4 1/2 X 4 1/2	US26D	ST
1 Keyed Removable Mullion	KR822 MCS	600	PR
1 Exit Device	3RO FL ELR2103 X 4903D S458	630	PR
1 Exit Device	3RO FL 2102 X 4902D S458	630	PR
2 Rim Cylinder	12E-72 STD	626	BE
1 Power Supply	ELR151BT		PR

1	Power Transfer	EPT-5		PR
1	Low Energy Operator	CLD-4990	628	SD
1	Door Closer	CLD-4550 CS P45HD-110 P45HD-112 SN	689	SD
2	Kick Plate	KO050 8" x 2" LDW CSK	630	TR
1	Wall Bumper	1270WV	630	TR
1	Card Reader	CARD READER BY OWNER'S SECURITY VENDOR		BY
2	Actuator	CL4163	630	SD
2	Door Silencers	1229A	GREY	TR

Function:

1. Doors normally closed and locked. Presenting valid credential to Card Reader retracts latchbolt on exit device allowing access. Presenting valid credential also will energize actuator that when pushed, will activate low energy operator on one leaf allowing entry. Mechanical key in outside cylinder on one leaf retracts latchbolt for entry. Door re-locks after closure.
2. When power is lost, doors fail in locked position (Fail Secure).
3. Free Egress at all times by touchbar and low energy operator.

~~SET #30 Int Pair Exit Access~~

~~Doors: A138~~

6	Hinges	STS FBB199 4 1/2 X 4 1/2 NRP	US32D	ST
1	Exit Device	3RO ELR 2803 X 4903D CD S460 S519	630	PR
2	Exit Device	3RO 2802 X 4902D CD S460 S519	630	PR
2	Mortise Cylinder	1E 74 STD	626	BE
1	Rim Cylinder	12E 72 STD	626	BE
2	Door Closer	CLD 4550 HCS P45HD 110 P45HD 112 SN	689	SD
2	Armor Plate	KA050 2 3/4" x 2" LDW GSK UL (VERIFY)	630	TR
1	Card Reader	CARD READER BY OWNER'S SECURITY VENDOR		BY
1	Power Transfer	EPT 5		PR
1	Power Supply	ELR152 NOTE: Use with Door 138.1		PR
1	Gasketing	5050 B 20 20'		NA
2	Door Sweep	200 NA 36"		NA
1	Saddle Threshold	425 72"	AL	NA

~~Function:~~

- ~~1. Doors normally closed and locked. Presenting valid credential to Card Reader retracts latchbolt on exit device on one leaf allowing entry. Mechanical key in outside cylinder on one leaf retracts latchbolt for entry. Door re-locks after closure.~~
- ~~2. When power is lost, doors fail in locked position (Fail Secure).~~
- ~~3. Free Egress at all times by touchbar and low energy operator.~~

~~SET #31 Ext Sgl Storeroom~~

~~Doors: A150.2~~

3	Hinges	STS FBB191 4 1/2 X 4 1/2 NRP	US32D	ST
1	Lockset	9K3 7D14D STD 3/4 LM S3	626	BE
1	Door Closer	CLD 4550 CS P45HD 110 P45HD 112 SN	689	SD
1	Door Position Switch	1078 CW		SENT
1	Gasketing	5050 B 17 17'		NA

1	Drip Cap	16 A 36"		NA
1	Door Sweep	200 NA 36"		NA
1	Saddle Threshold	425 36"	AL	NA

SET #32 - Ext - Sgl - Storeroom - Access

Doors: B132.1

3	Hinges	STS FBB199 4 1/2 X 4 1/2 NRP	US32D	ST
1	Lockset	45H-7WEU14H STD LM S1	626	BE
1	Power Transfer	EPT-5		PR
1	Door Closer	CLD-4550 CS P45HD-110 P45HD-112 SN	689	SD
1	Armor Plate	KA050-2 34" x 2" LDW CSK UL (VERIFY)	630	TR
2	Card Reader	CARD READER BY OWNER'S SECURITY VENDOR (interior and exterior)		BY
1	Door Position Switch	1078 CW		SENT
1	Power Supply	PSP-24-1.5		SN
1	Gasketing	5050 B-17 17'		NA
1	Drip Cap	16 A 36"		NA
1	Door Sweep	200 NA 36"		NA
1	Saddle Threshold	425 36"	AL	NA

Function:

1. Door normally closed and locked. Presenting valid credential to Card Reader on either side releases latchbolt allowing entry/exit. Mechanical key in outside or inside cylinder retracts latchbolt for entry/exit. Door re-locks after closure.
2. When power is lost, doors fail in locked position (Fail Secure).
3. Controlled egress only through this door. No free egress.

~~SET #33 - Ext - Sgl - Exit - Access~~

~~Doors: A151.2~~

3	Hinges	FBB199 5 X 4 1/2 NRP	US32D	ST
1	Exit Device	3RO FL ELR2103 X 4903D	630	PR
1	Rim Cylinder	12E 72 STD	626	BE
1	Door Closer	CLD 4550 CS P45HD 110 P45HD 112 SN	689	SD
1	Power Supply	ELR151BT		PR
1	Power Transfer	EPT 5		PR
1	Door Stop	1209	630	TR
1	Card Reader	CARD READER BY OWNER'S SECURITY VENDOR		BY
1	Door Position Switch	1078 CW		SENT
1	Drip Cap	16 A 48"		NA
1	Gasketing	5050 B-20 20'		NA
1	Door Sweep	200 NA 48"		NA
1	Saddle Threshold	425 48"	AL	NA

~~Function:~~

- ~~1. Doors normally closed and locked. Presenting valid credential to Card Reader retracts latchbolt on exit device allowing entry. Mechanical key in outside cylinder on one leaf retracts latchbolt for entry. Door re-locks after closure.~~
- ~~2. When power is lost, doors fail in locked position (Fail Secure).~~
- ~~3. Free Egress at all times by touchbar.~~

~~SET #34 - Ext - Sgl - Exit~~

~~Doors: A149.2~~

3 Hinges	STS FBB191 4 1/2 X 4 1/2 NRP	US32D	ST
1 Exit Device	3RO 2103 X 4903D S300	630	PR
1 Rim Cylinder	12E 72 STD	626	BE
1 Door Closer	CLD 4550 CS P45HD 110 P45HD 112 SN	689	SD
1 Door Position Switch	1078 CW		SENT
1 Gasketing	5050 B 17 17'		NA
1 Drip Cap	16 A 36"		NA
1 Door Sweep	200 NA 36"		NA
1 Saddle Threshold	425 36"	AL	NA

~~SET #35 - Ext - Pair - Exit - Access~~

~~Doors: A138.1~~

6 Hinges	STS FBB199 4 1/2 X 4 1/2 NRP	US32D	ST
1 Exit Device	3RO ELR 2803 X 4903D CD S460 S519	630	PR
1 Exit Device	3RO 2802 X 4902D CD S460 S519	630	PR
2 Mortise Cylinder	1E 74 STD	626	BE
1 Rim Cylinder	12E 72 STD	626	BE
2 Door Closer	CLD 4550 HCS P45HD 110 P45HD 112 SN	689	SD
2 Armor Plate	KA050 2 34" x 2" LDW CSK UL (VERIFY)	630	TR
1 Card Reader	CARD READER BY OWNER'S SECURITY		BY
	VENDOR		
1 Power Transfer	EPT-5		PR
2 Door Position Switch	1078 CW		SENT
1 Intercom Set	JOS-1F		AI
1 Drip Cap	16 A 72"		NA
1 Gasketing	5050 B 20 20'		NA
2 Door Sweep	200 NA 36"		NA
1 Saddle Threshold	425 72"	AL	NA

~~Function:~~

- ~~1. Doors normally closed and locked.~~
- ~~2. Use of intercom system to request entry. Pushing button on intercom system in Kitchen Area retracts latchbolt in exit device for entry. Door re locks after closure.~~
- ~~3. Presenting valid credential to Card Reader retracts latchbolt on exit device on one leaf allowing entry. Mechanical key in outside cylinder on one leaf retracts latchbolt for entry. Door re locks after closure.~~
- ~~4. When power is lost, doors fail in locked position (Fail Secure).~~
- ~~5. Free Egress at all times by touchbar and low energy operator.~~

SET #36 - Ext - Sgl - Exit - Alarm - 2" Alum Thermal

Doors: S101.1, S103.1

1 Continuous Hinge	A270HDC 83		AB
1 Exit Device	3RO 2101 ALW S300	630	PR

1 Mortise Cylinder	1E-74 STD	626	BE
1 Door Closer	CLD-4550 CS P45HD-110 P45HD-112 SN	689	SD
1 Door Stop	1209	630	TR
1 Power Transfer	EPT-5		PR
1 Door Position Switch	1078 CW		SENT
1 Power Supply	PS160-6		PR
1 Door Sweep	200 NA 36"		NA
1 Saddle Threshold	425 36"	AL	NA

NOTE: Weatherstrip by Aluminum Door Supplier.

Function:

1. Doors normally closed and locked.
2. Touchbar on exit device is alarmed, when pushed, alarm will sound.
3. No re-entry at these doors.
4. Free Egress at all times by touchbar, with alarm.

~~SET #37 - Ext - Sgl - Exit - Alum~~

~~Doors: A115, A123~~

1 Continuous Hinge	A110HDC 83		AB
1 Exit Device	3RO 2101 S300	630	PR
1 Door Closer	CLD 4550 CS P45HD 110 P45HD 112 SN	689	SD
1 Door Position Switch	1078 CW		SENT
1 Door Sweep	200 NA 36"		NA
1 Saddle Threshold	425 36"	AL	NA

~~NOTE: Weatherstrip by Aluminum Door Supplier.~~

SET #38 - Ext - Sgl - Storeroom - Access - 2" Alum Thermal

Doors: B115.2

1 Continuous Hinge	A270HDC 83		AB
1 Lockset	9KW3-7DEU14D STD 3/4 LM S3	626	BE
1 Power Transfer	EPT-5		PR
1 Door Closer	CLD-4550 CS P45HD-110 P45HD-112 SN	689	SD
1 Card Reader	CARD READER BY OWNER'S SECURITY VENDOR		BY
1 Door Position Switch	1078 CW		SENT
1 Power Supply	PSP-24-1.5		SN
1 Door Sweep	200 NA 36"		NA
1 Saddle Threshold	425 36"	AL	NA

NOTE: Weatherstrip by Aluminum Door Supplier.

Function:

1. Door normally closed and locked. Presenting valid credential to Card Reader releases latchbolt allowing entry. Mechanical key in outside cylinder retracts latchbolt for entry. Door re-locks after closure.
2. When power is lost, doors fail in locked position (Fail Secure).

3. Free Egress at all times by lever.

~~SET #39 Int Sgl Exit Alum Auto Opp~~

~~Doors: A117.4~~

1	Continuous Hinge	A110HDC 83		AB
1	Dummy Bar	671DR 3	630	PR
1	Exit Device Trim	4902D	630	PR
1	Low Energy Operator	CLD 4990	628	SD
1	Wall Bumper	1270WV	630	TR
1	Actuator	CL4163	630	SD
1	Jamb Dual Actuator	CL2388	630	SD

~~Function:~~

- ~~1. Door is always push/pull.~~
- ~~2. Operation at all times by pushing actuator plates on either side of door to activate low energy operator for entry/exit.~~
- ~~3. Free Egress at all times by pushbar.~~

~~SET #40 Int Pair Exit Alum~~

~~Doors: A117.3~~

2	Continuous Hinge	A110HDC 83		AB
2	Dummy Bar	671DR 3	630	PR
2	Exit Device Trim	4902D	630	PR
2	Door Closer	CLD 4550 CS P45HD 110 P45HD 112 SN	689	SD

~~Function:~~

- ~~1. Door is always push/pull.~~
- ~~2. Free Egress at all times by pushbar.~~

~~SET #41 Ext Sgl Exit Access Auto Alum~~

~~Doors: A117.2~~

1	Continuous Hinge	A110HDC 83		AB
1	Exit Device	3RO ELR2103 X 4903D	630	PR
1	Rim Cylinder	12E 72 STD	626	BE
1	Power Supply	ELR151BT		PR
1	Power Transfer	EPT 5		PR
1	Low Energy Operator	CLD 4990	628	SD
1	Wall Bumper	1270WV	630	TR
1	Card Reader	CARD READER BY OWNER'S SECURITY		BY
		VENDOR		
1	Door Position Switch	1078 CW		SENT
1	Actuator	CL4163	630	SD
1	Door Sweep	200 NA 36"		NA
1	Saddle Threshold	425 36"	AL	NA

~~NOTE: Weatherstrip by Aluminum Door Supplier.~~

Function:

1. Door normally closed and locked. Presenting valid credential to Card Reader retracts latchbolt on exit device and activates low energy operator allowing entry. Mechanical key in outside cylinder retracts latchbolt for entry. Door re-locks after closure.
2. When power is lost, doors fail in locked position (Fail Secure).
3. Free Egress at all times by touchbar and low energy operator.

SET #42 Ext Pair Exit Alum

Doors: A117.1

2	Continuous Hinge	A110HDC 83		AB
1	Keyed Removable Mullion	KR822 MCS	600	PR
2	Exit Device	3RO 2102 X 4902D CD S458	630	PR
2	Exit Device	3RO 2103 X 4903D CD S458	630	PR
2	Mortise Cylinder	1E 74 STD	626	BE
2	Rim Cylinder	12E 72 STD	626	BE
2	Door Closer	CLD 4550 CS P45HD 110 P45HD 112 SN	689	SD
2	Door Position Switch	1078 CW		SENT
2	Door Sweep	200 NA 36"		NA
1	Saddle Threshold	425 72"	AL	NA

NOTE: Weatherstrip by Aluminum Door Supplier.

SET #43 Ext Pair Exit Access Auto Alum

Doors: A155

2	Continuous Hinge	A110HDC 83		AB
1	Keyed Removable Mullion	KR822 MCS	600	PR
1	Exit Device	3RO ELR2103 X 4903D S458	630	PR
1	Exit Device	3RO 2102 X 4902D S458	630	PR
1	Power Supply	ELR151BT		PR
1	Power Transfer	EPT 5		PR
2	Rim Cylinder	12E 72 STD	626	BE
1	Low Energy Operator	CLD 4990	628	SD
1	Door Closer	CLD 4550 CS P45HD 110 P45HD 112 SN	689	SD
1	Card Reader	CARD READER BY OWNER'S SECURITY VENDOR		BY
2	Door Position Switch	1078 CW		SENT
1	Actuator	Actuator Inside	630	SD
2	Door Sweep	200 NA 36"		NA
1	Saddle Threshold	425 72"	AL	NA

NOTE: Weatherstrip by Aluminum Door Supplier.

Function:

1. Doors normally closed and locked. Presenting valid credential to Card Reader retracts latchbolt on exit device and activates low energy operator on one leaf allowing entry. Mechanical key in outside cylinder on one leaf retracts latchbolt for entry. Door re-locks after closure.
2. When power is lost, doors fail in locked position (Fail Secure).
3. Free Egress at all times by touchbar and low energy operator.

SET #44 – Loose Cylinders

2 qty Loose keyed cylinders at plumbing chase access doors

Opening List

<u>Opening</u>	<u>Hdw Set</u>	<u>Location</u>	<u>Door Type</u>	<u>Quantity</u>
HS1	1	Unit Bedroom	Pre-hung	160
HS2	2	Unit Privacy	Pre-hung	98
HS3	3	Unit Closet – B115	Pre-hung	3
HS4	4	Unit Passage – B115	Pre-hung	1
HS5	5	Unit Entry	Wood/HM	51
HS6	6	Unit Mech	Wood/HM	51

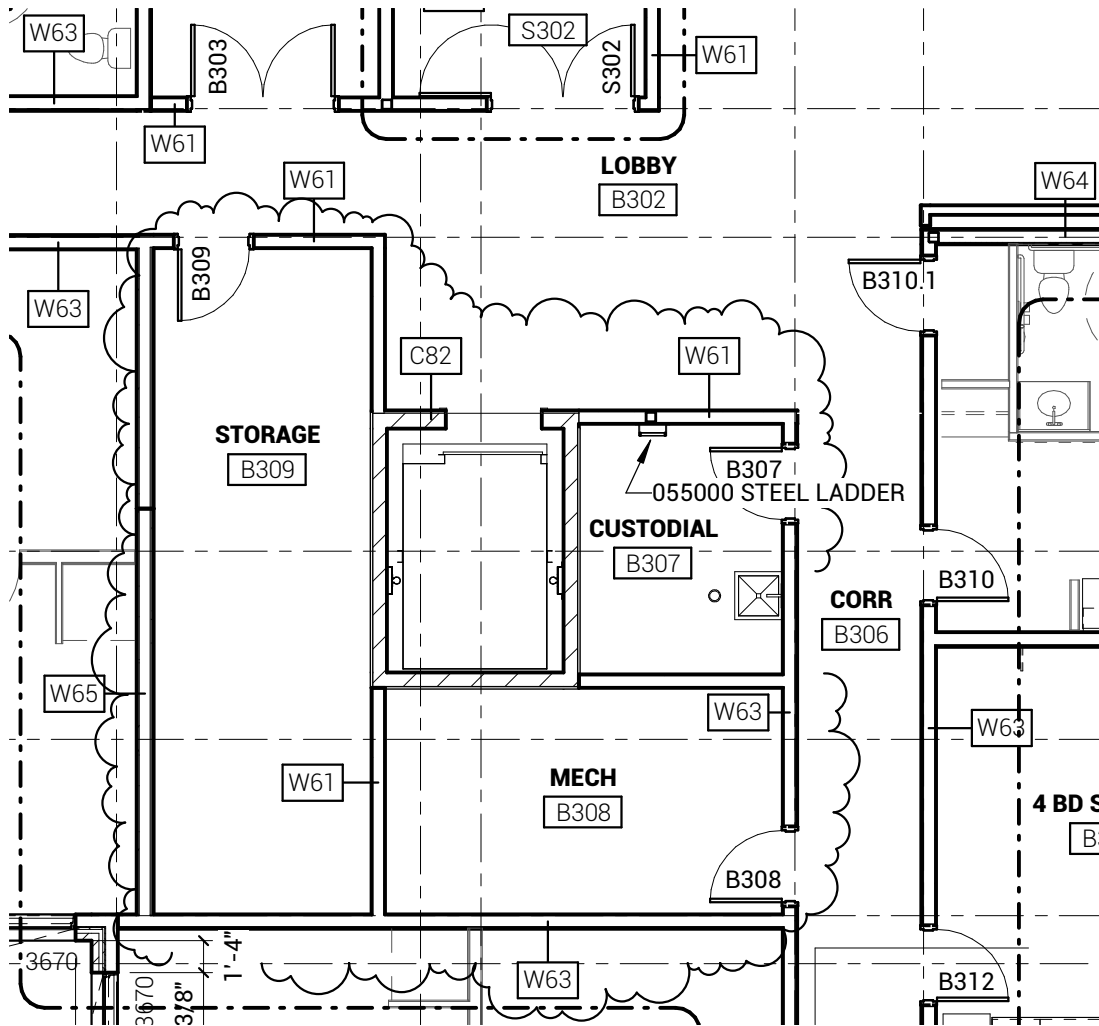
<u>Opening</u>	<u>Hdw Set</u>	<u>Opening Label</u>	<u>Door Type</u>	<u>Frame Type</u>
A101.1	17		WOOD	ALUM
A101.2	16		WOOD	ALUM
A102.1	17		WOOD	ALUM
A102.2	16		WOOD	ALUM
A104.1	17		WOOD	ALUM
A104.2	16		WOOD	ALUM
A105	19		WOOD	ALUM
A106	18		WOOD	ALUM
A107	19		WOOD	ALUM
A110	19		WOOD	ALUM
A111	8		WOOD	ALUM
A112	8		WOOD	ALUM
A115	37		ALUM	ALUM
A117.1	42		ALUM	ALUM
A117.2	41		ALUM	ALUM
A117.3	40		ALUM	ALUM
A117.4	39		ALUM	ALUM
A123	37		ALUM	ALUM
A124	19		WOOD	ALUM
A125.1	21		ALUM	ALUM
A125.2	21		ALUM	ALUM
A126	18		ALUM	ALUM
A127	18		ALUM	ALUM
A130	8		WOOD	ALUM
A131	19		WOOD	ALUM
A132	17		WOOD	HM
A133	13		WOOD	HM
A134	22		WOOD	ALUM
A135	20		WOOD	HM
A136	17		WOOD	ALUM
A137	22		WOOD	HM
A138	30		HM	HM
A138.1	35		HM	HM
A139	13		WOOD	ALUM
A145	17		WOOD	ALUM
A146	17		WOOD	ALUM
A147	22		WOOD	ALUM
A149.1	28	45 Min	HM	HM
A149.2	34		HM	HM
A150.1	13		WOOD	ALUM

A150.2	31		HM	HM
A151	17		WOOD	HM
A151.1	24		WOOD	HM
A151.2	33		HM	HM
A152	17		WOOD	HM
A154	22		WOOD	ALUM
A155	43		ALUM	ALUM
B100	29	90 Min	WOOD	HM
B103	11	45 Min	WOOD	HM
B103.1	14		WOOD	HM
B105	12	20 Min	WOOD	HM
B106	7		HM	HM
B107	14		HM	HM
B108	14		HM	HM
B109	15	60 Min	HM	HM
B115.2	38		ALUM	ALUM
B117	9		WOOD	HM
B118	7		HM	HM
B119	7		HM	HM
B120	12	20 Min	WOOD	HM
B131	7		HM	HM
B132	10		HM	HM
B132.1	32		HM	HM
B148	15	45 Min	HM	HM
B200.1	15	20 Min	WOOD	HM
B203	26		WOOD	HM
B207	15	20 Min	WOOD	HM
B208	15	20 Min	WOOD	HM
B209	15	20 Min	WOOD	HM
B217	9		WOOD	HM
B232	9		WOOD	HM
B300.1	15	20 Min	WOOD	HM
B303	26		WOOD	HM
B307	15	20 Min	WOOD	HM
B308	23	20 Min	WOOD	HM
B309	23	20 Min	WOOD	HM
B317	9		WOOD	HM
B332	9		WOOD	HM
S101	25	60 Min	WOOD	HM
S101.1	36		ALUM	ALUM
S103	25	60 Min	WOOD	HM
S103.1	36		ALUM	ALUM
S201	25	60 Min	WOOD	HM
S202	27	60 Min	WOOD	HM
S203	25	60 Min	WOOD	HM
S301	25	60 Min	WOOD	HM
S302	27	60 Min	WOOD	HM
S303	25	60 Min	WOOD	HM



NECC DINING FACILITY AND RESIDENCE HALL ADDENDUM #1 BID PACKAGE #2

DATE: 12/19/2014



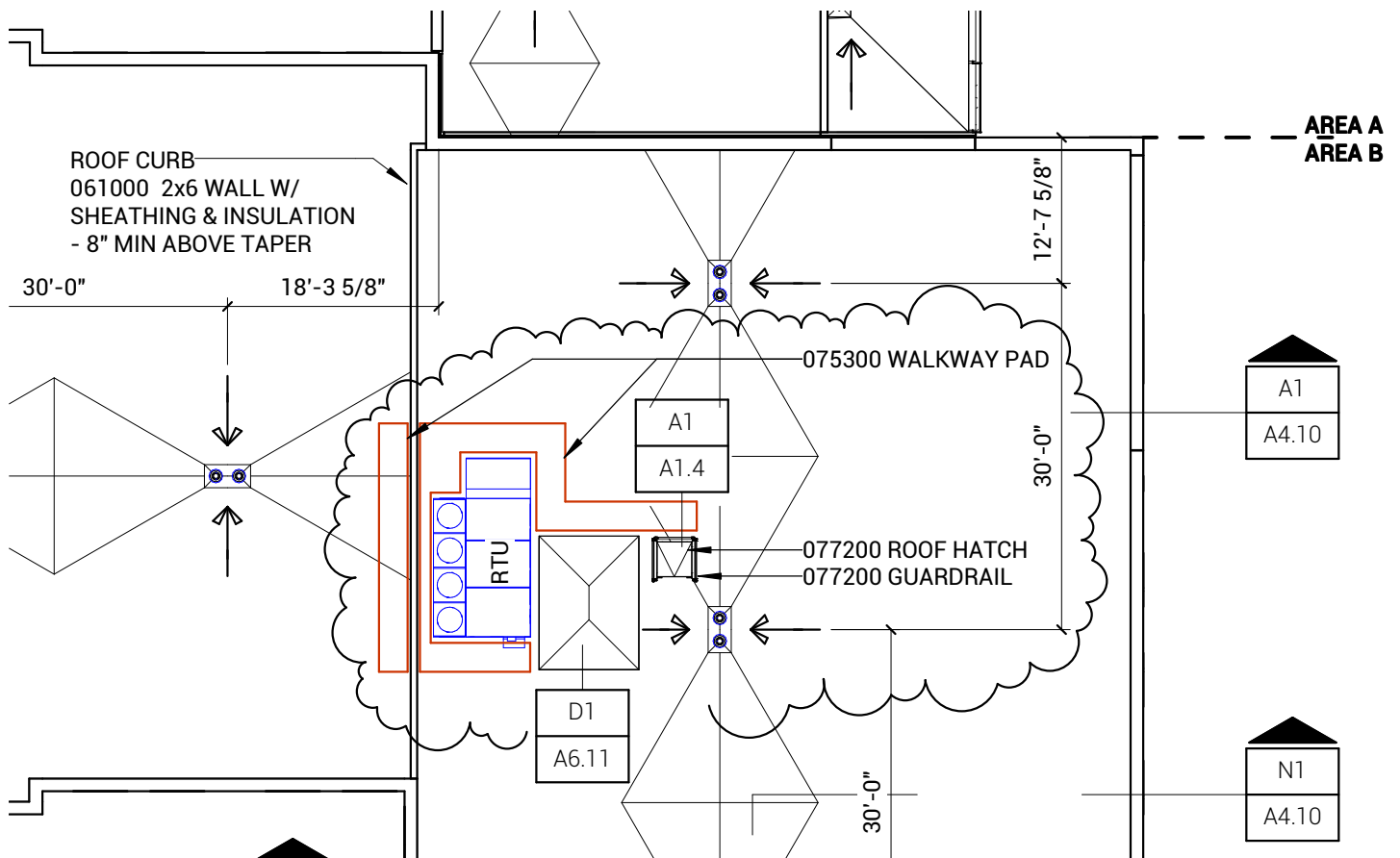
A1/A1.3 03 - THIRD FLOOR RES HALL

1/8" = 1'-0"



NECC DINING FACILITY AND RESIDENCE HALL ADDENDUM #1 BID PACKAGE #2

DATE: 12/19/2014



A7/A1.4 ROOF PLAN

1/16" = 1'-0"



ARCHITECT
 BARR VERMEER HAECKER ARCHITECTS
 440 N 8TH ST STE 100
 LINCOLN NE 68508
 V.402.475.6551
 bvh.com

RESIDENCE HALL DESIGN CONSULTANT
 KWIK ARCHITECTS
 103 W LOCKWOOD AVE
 SAINT LOUIS MO 63119
 V.314.942.8810
 kwikarchitects.com

CIVIL ENGINEER
 OLSSON ASSOCIATES
 601 P STREET
 LINCOLN NE 68508
 V.402.474.6311
 olssonassociates.com

STRUCTURAL ENGINEER
 VOSS & ASSOCIATES INC.
 201 N 7TH STREET SUITE 200
 LINCOLN NE 68508
 V.402.476.6365
 voss-assoc.com

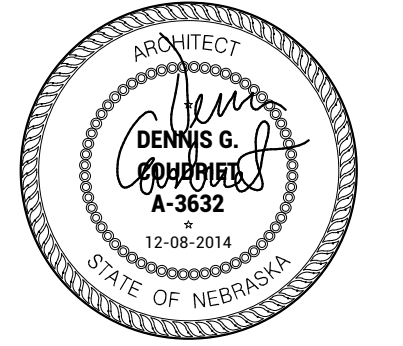
MECHANICAL & ELECTRICAL ENGINEER
 SPECIALIZED ENGINEERING SOLUTIONS
 10360 ELLISON CIRCLE
 OMAHA NE 68134
 V.402.991.5520
 specializedeng.com

FOOD SERVICE DESIGN CONSULTANT
 ROBERT RIPPE & ASSOCIATES
 6117 BLUE CIRCLE DRIVE
 MINNETONKA MN 55343
 V.952.933.0313
 robertrippe.com

REVISIONS SCHEDULE		
MARK	DATE	DESCRIPTION
3	12-19-2014	ADDENDUM #1 BP#2

NECC DINING FACILITY AND RESIDENCE HALL

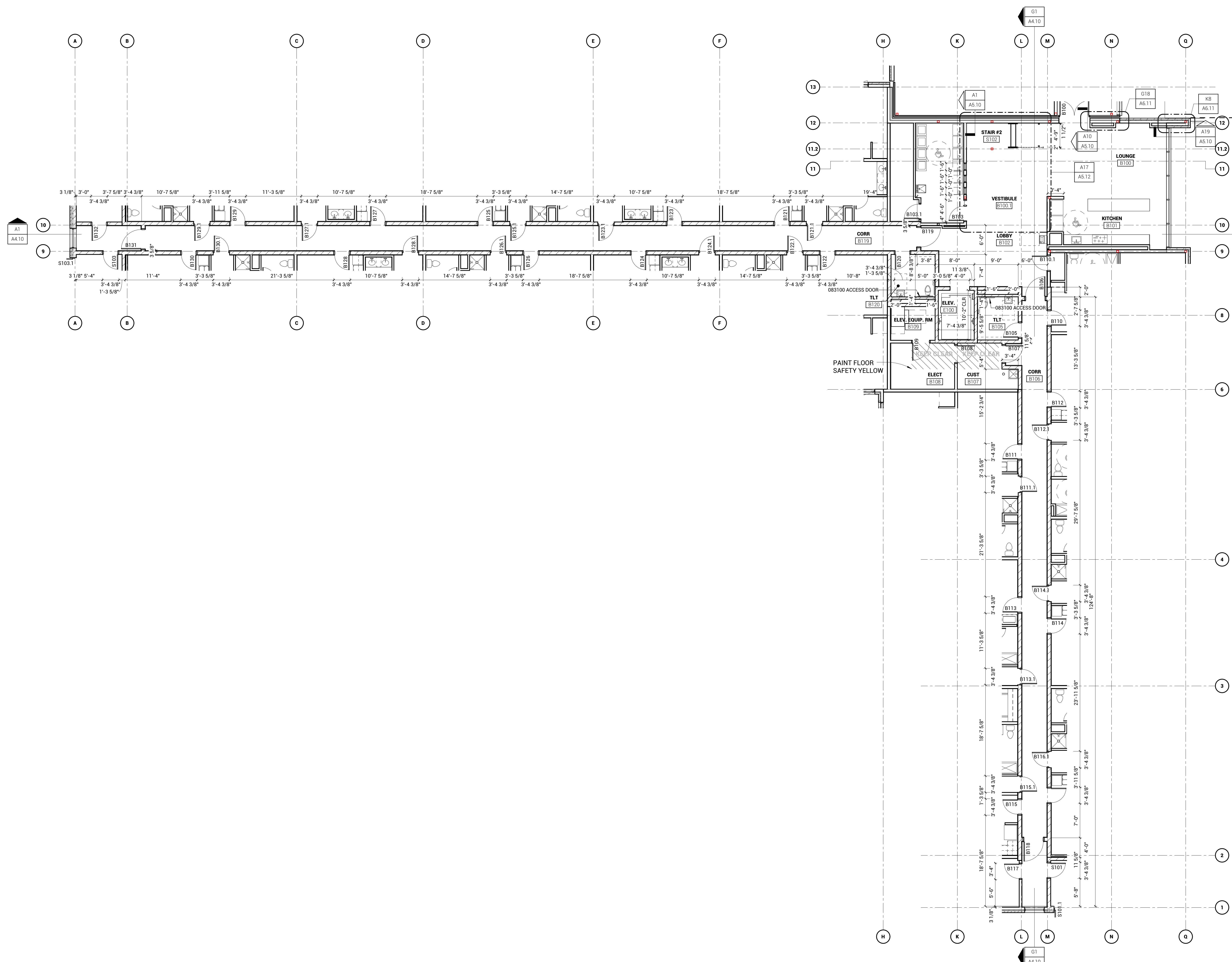
PROJECT: L14089 DATE: DECEMBER 08, 2014



ENLARGED PLANS

TRUE NORTH PROJECT NORTH

A1.13
 BID PACKAGE #2



A1 ENLARGED PLAN - FIRST FLOOR RES HALL CORRIDOR
 1/8" = 1'-0"



ARCHITECT
BVH ARCHITECTS
 440 N 8TH ST STE 100
 LINCOLN NE 68508
 V 402 475 4551
 bvh.com

RESIDENCE HALL DESIGN CONSULTANT
KWK ARCHITECTS
 103 W LOCKWOOD AVE
 SAINT LOUIS MO 63119
 V 314 942 8810
 kwkarchitects.com

CIVIL ENGINEER
OLSSON ASSOCIATES
 601 P STREET
 LINCOLN NE 68508
 V 402 474 6111
 olssonassociates.com

STRUCTURAL ENGINEER
VOSS & ASSOCIATES INC.
 201 N 7TH STREET SUITE 200
 LINCOLN NE 68508
 V 402 476 6365
 voss-assoc.com

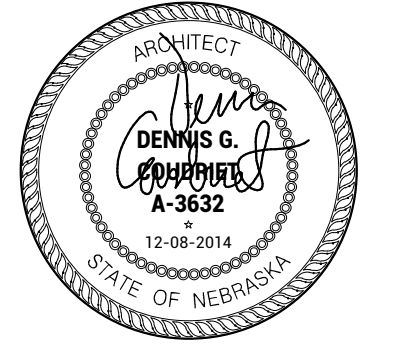
MECHANICAL & ELECTRICAL ENGINEER
SPECIALIZED ENGINEERING SOLUTIONS
 10360 ELLISON CIRCLE
 OMAHA NE 68134
 V 402 991 5520
 specializedeng.com

FOOD SERVICE DESIGN CONSULTANT
ROBERT RIPPE & ASSOCIATES
 6117 BLUE CIRCLE DRIVE
 MINNETONKA MN 55343
 V 952 933 0313
 robertrippe.com

REVISIONS SCHEDULE		
MARK	DATE	DESCRIPTION
3	12-19-2014	ADDENDUM #1 BP#2

NECC DINING FACILITY AND RESIDENCE HALL

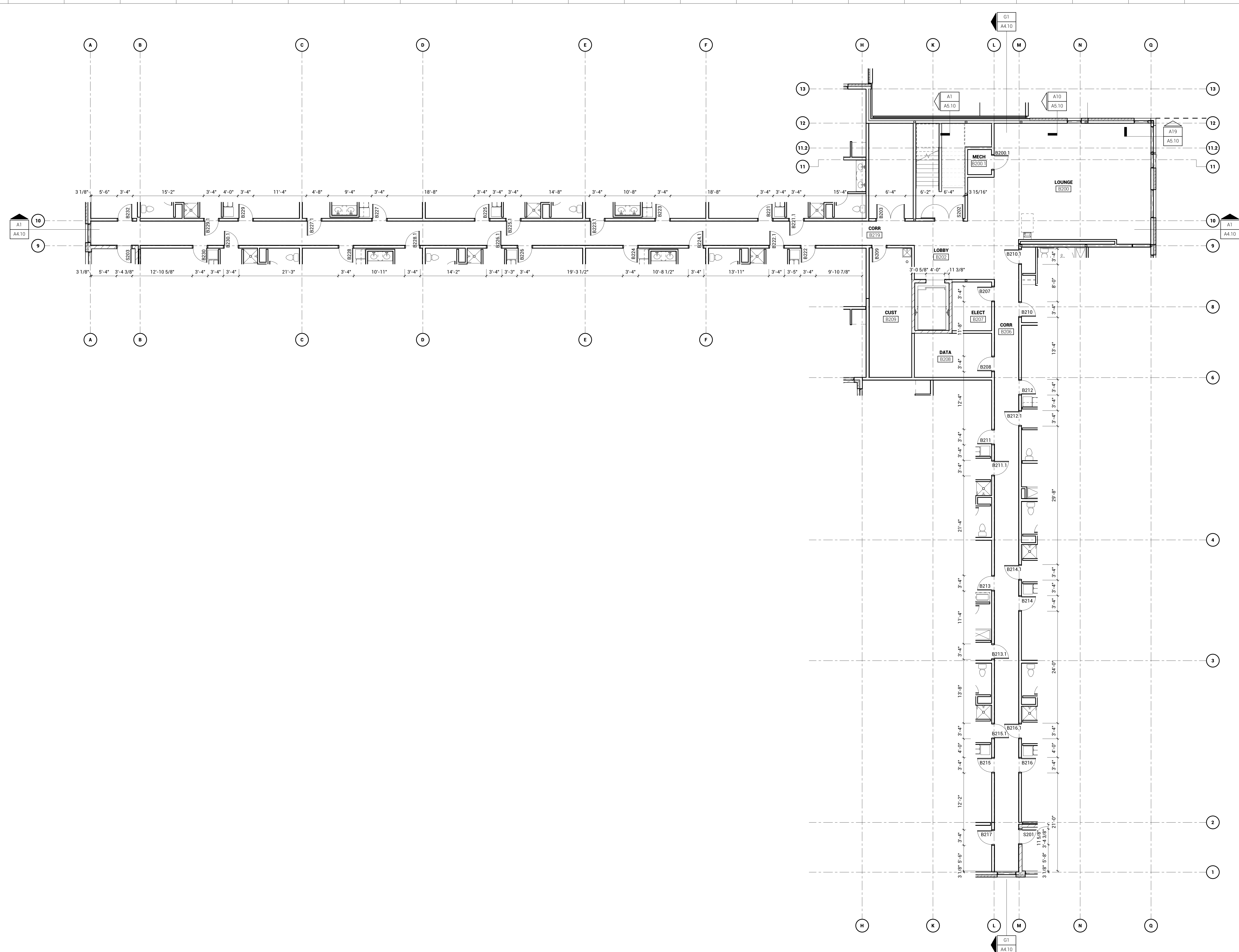
PROJECT: L14089 DATE: DECEMBER 08, 2014



ENLARGED PLANS

TRUE NORTH PROJECT NORTH

A1.14
BID PACKAGE #2

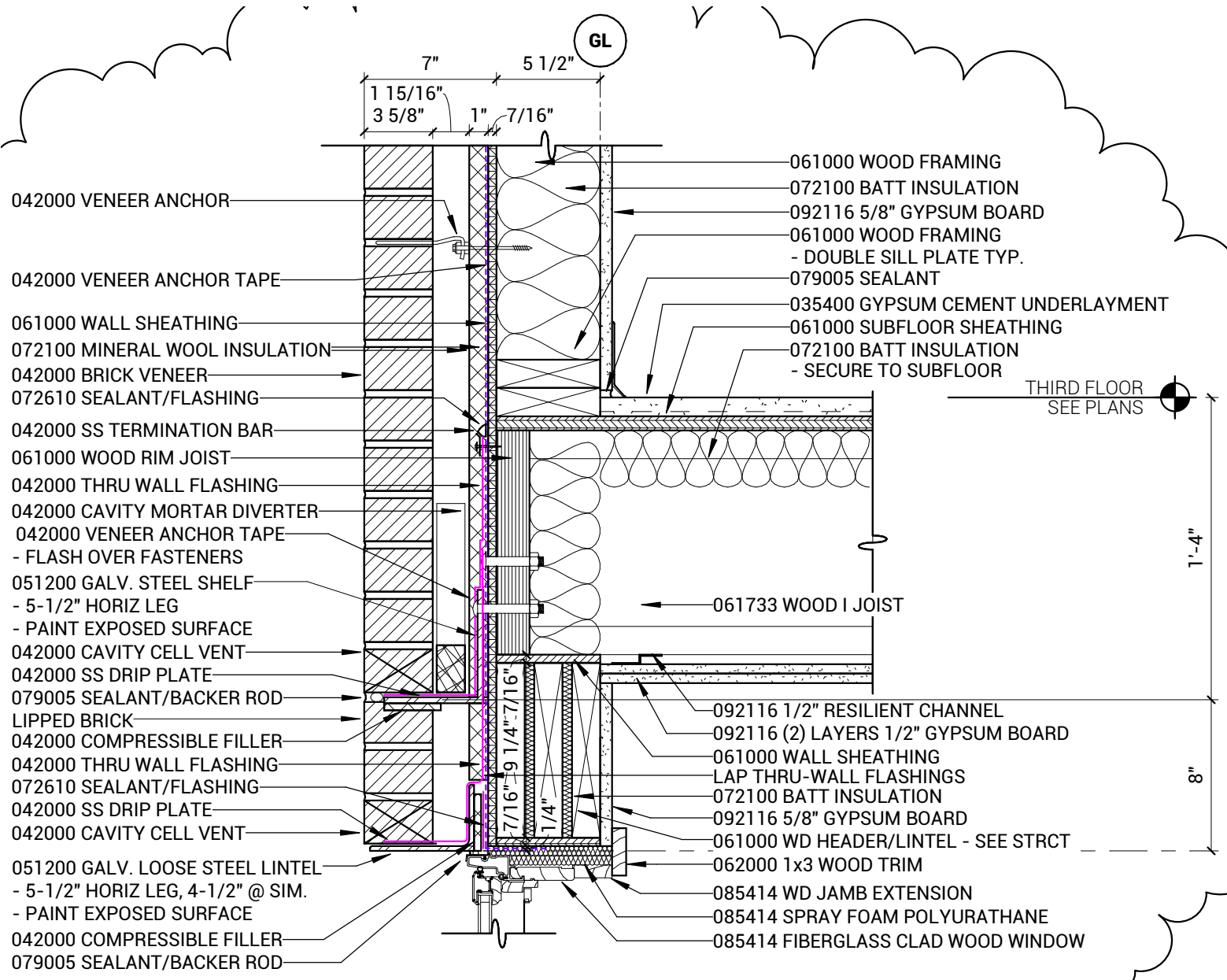


A1 ENLARGED PLAN - SECOND FLOOR RES HALL CORRIDOR
 1/8" = 1'-0"



NECC DINING FACILITY AND RESIDENCE HALL ADDENDUM #1 BID PACKAGE #2

DATE: 12/19/2014



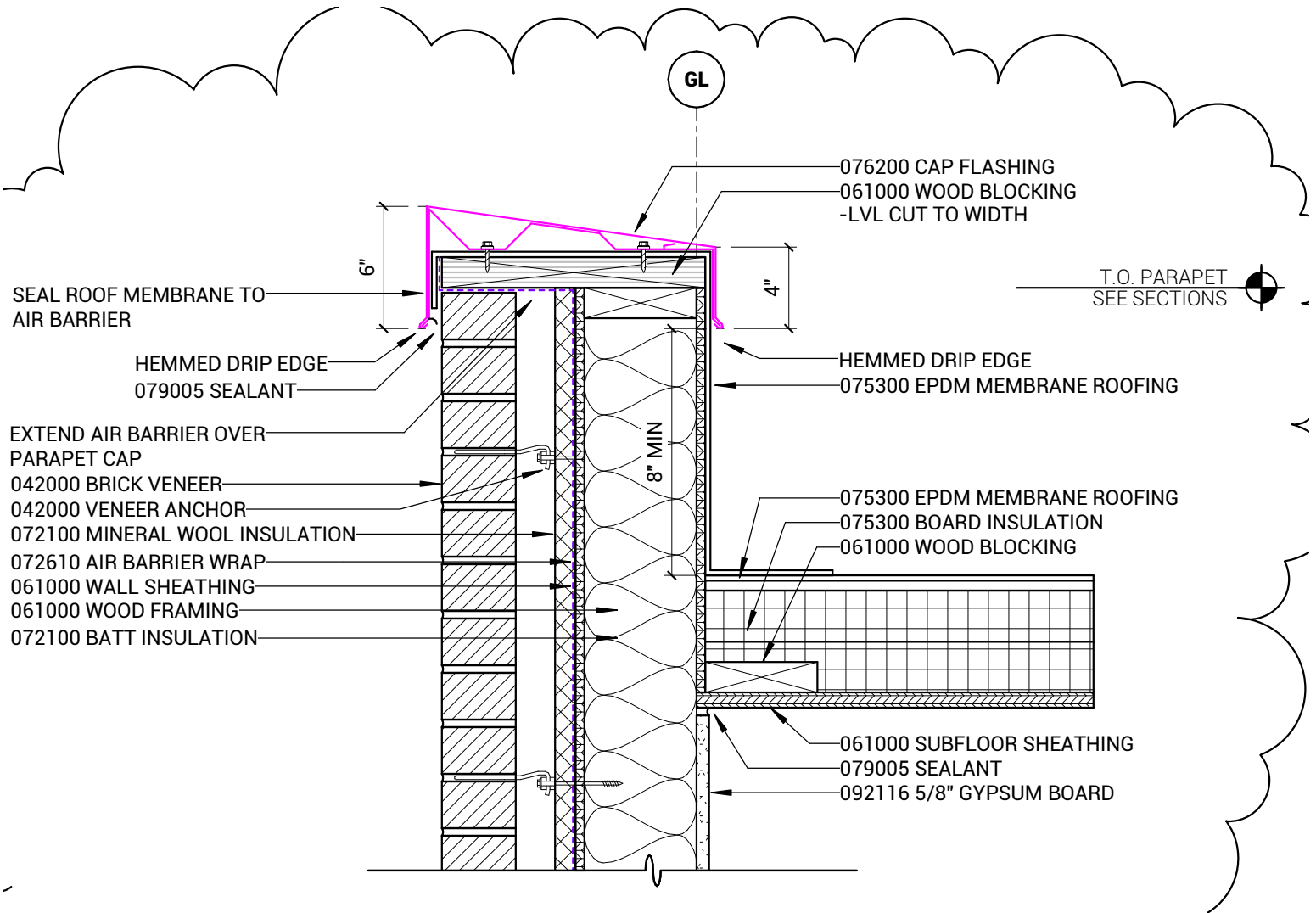
S7/A6.10 DETAIL

1 1/2" = 1'-0"



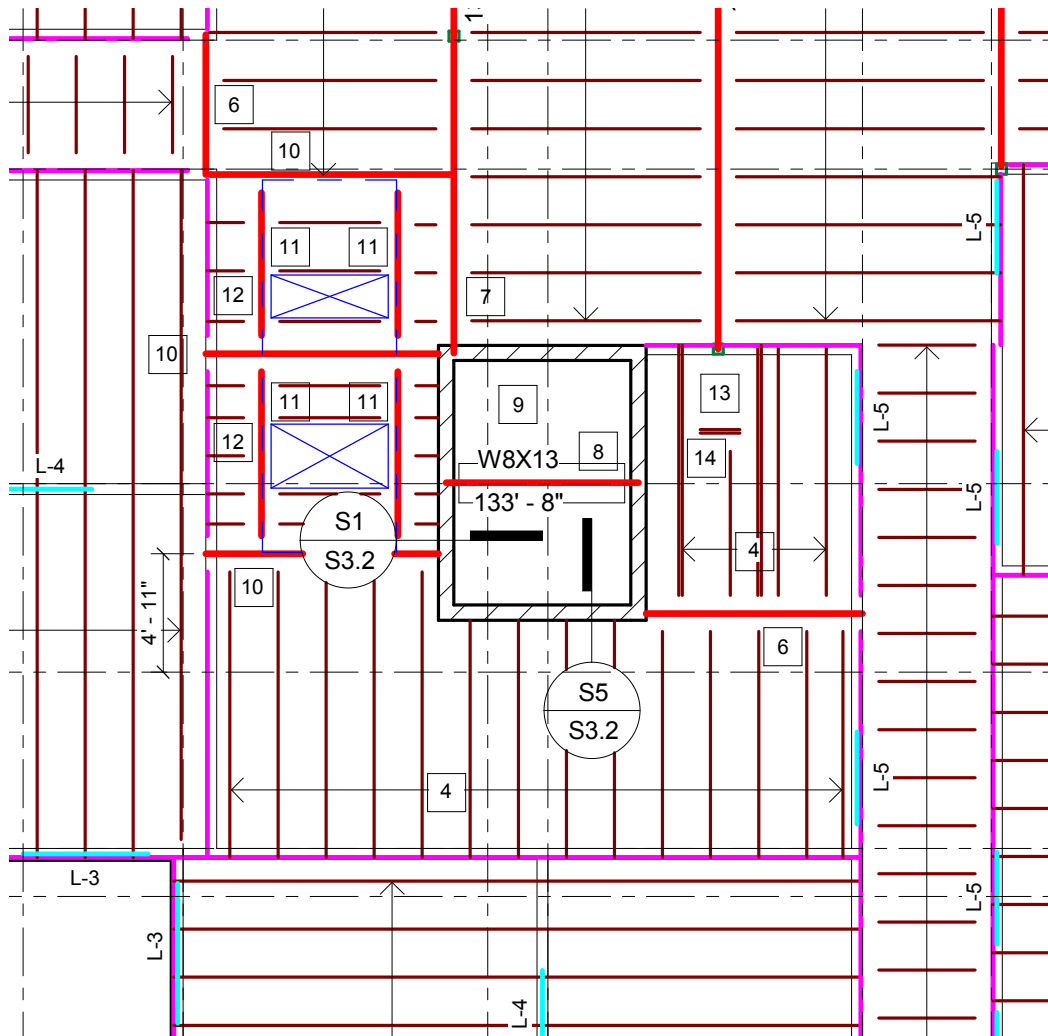
NECC DINING FACILITY AND RESIDENCE HALL ADDENDUM #1 BID PACKAGE #2

DATE: 12/19/2014



S19/A6.10 DETAIL

1 1/2" = 1'-0"



BID PACKAGE #2 - ADDENDUM #1 - REF. SHEET S2.4B

Date	DECEMBER 19, 2014	VOSS & ASSOCIATES Inc. STRUCTURAL ENGINEERS	
Project Name	NECC DINING FACILITY AND RESIDENCE HALL	SHEET	S1