DOCUMENT 009113 – ADDENDA NUMBER 1

1.1 PROJECT INFORMATION

A. Project Name: LPS – Saratoga School Window Replacement Project.

B. Project Location: 2215 South 13th Street, Lincoln Nebraska.

C. Owner: Lincoln Public Schools.

D. Owner Project Number: Bid Number 7683.

E. Architect: Clark Architects Collaborative.

F. Date of Addendum: April 10, 2014.

1.2 NOTICE TO BIDDERS

A. This Addendum is issued to all registered plan holders pursuant to the Instructions to Bidders and Conditions of the Contract. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.

B. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.

C. The date for receipt of bids is unchanged by this Addendum, at same time and location.

1. Bid Date: April 17th, 2014 at 10:00am.

1.3 ATTACHMENTS

A. This Addendum includes the following attached Documents and Specification Sections:

1. Document Pre Construction Meeting Minutes, dated 04/09/14, (new).
2. Document Pre Bid Attendance Sheet, dated 04/08/14, (new).
3. Document Alternates Form, dated 04/10/14, (new).
4. Document Bid Submittal Checklist, dated 04/10/14, (new).
5. Section 012300 “Alternates”, dated 04/10/14, (new).
6. Section 087100 Door Hardware, dated 04/10/14, (reissued).

B. This Addendum includes the attached Addendum Drawings:

1. Architectural Addendum Drawing AAD-1.0, dated 04/10/14, revising Sheet A107.
2. Architectural Addendum Drawing AAD-2.0, dated 04/10/14, revising Sheet A107.

1.4 REVISIONS TO DIVISION 01 GENERAL REQUIREMENTS

A. Specification Section 011000 “Summary”, (not reissued).

1. Paragraph 1.8.E: This should read: Smoking is not required on any Lincoln Public School Property. Smoking on Project Site is not permitted.

2. Paragraph 1.8.G: This should read: Provide identification tags for Contractor personnel working on Project Site.

1.5 REVISIONS TO DIVISIONS 02 - 49 SPECIFICATION SECTIONS

A. Specification Section 015000 “Temporary Facilities and Controls”, (not reissued). Refer to Paragraph 3.4.D. Add the following:

1. Site Enclosure Fence: Furnish and install site enclosure fence in a manner that will prevent people and animals from easily entering site except by entrance gates.

a. Extent of Fence: As required to enclose portion of Project site where stored materials, project trailer and construction dumpsters are located.

1.6 REVISIONS TO DRAWING SHEETS

A. Sheet A103 - Second Floor Plan North (not reissued).

1. Drawing C1 Window Grilles: Grille for Opening Type I is to be revised, the height of the unit is to be 6’-0” in lieu of 7’-0” and Grilles for openings Type J and K are to be deleted.

2. Drawing J5 Opening Type I: The height of this unit is to be changed from 7’-0” to 6’-0”.

3. Drawing Opening type J: Delete this window.

4. Drawing Opening type K: Delete this window.

5. Drawing A5 Second Floor Plan North: The window at the north end of the corridor that is noted to “Remain” is to be replaced. The window directly below it (arched) is also to be replaced. See drawing AAD-1 and AAD-2 included with this addendum.

B. Sheet A107 - Second Floor Plan North RCP (not reissued).

1. Add Window Types “L” and “M” to this sheet. Window L is indicated on AAD-1.0 and Window M is indicated on AAD-2.0.

2. A window pocket is to be installed at the head of Window Type L at the north end of the Corridor. See AAD-1.0

C. Sheet ME1.1 – First Floor Mechanical and Electrical Plan (not reissued).

1. Drawing J5 First Floor Mechanical and Electrical Plan: Delete Note 10.

2. Electrical Keynotes, note 26: Add the following verbiage; Panic buttons shall interface with existing access control system.

3. Drawing B10 Enlarged Mechanical and Electrical Plan #3: add a card reader in Vest 006E to control door 8a.

4. Drawing B10 Enlarged Mechanical and Electrical Plan #3: Junction box with notes 4 and 6 is to be moved to door 8a (north door)

END OF DOCUMENT 009113

DOCUMENT 002513 - PREBID MEETING MINUTES

1.1 PREBID MEETING – April 8, 2014, 3:15pm at Saratoga School 2215 South 13th.

A. Architect conducted the Prebid meeting minutes are as follows:

B. Attendance:

1. See the attached attendance sheet..

C. Bidder Questions: There were no questions submitted prior to the Prebid meeting

D. Agenda: Prebid discussion included topics that may affect proper preparation and submittal of bids, including the following:

1. Procurement and Contracting Requirements:

a. It was explained that the Advertisement for Bids, Instructions to Bidders, Bidder Qualifications, Bonding, Insurance, Bid Security are all included in the Project Manual and there were no questions regarding those topics.
b. The Bid Form and Attachments were elaborated on. The Form is included in the Project Manual and the Attachments that are to be included with the bid form are to indicate that the bidder acknowledges that the project includes Allowances, Unit Prices and Alternates.

1) It was noted that the Alternate Form will be issued by addendum along with that specification section.
2) The Bidder Checklist will be included in the Addendum.

c. Notice of Award: It was explained that the intent is that the low bid will be presented to the School Board at the April 22nd Board Meeting. The tentative start date for the successful bidder will be May 27th (the Tuesday after Memorial Day).

2. Communication during Bidding Period:

a. Obtaining documents: Documents are available from A&D Technical Supplies.
b. Bidder's Requests for Information.

1) If questions, contact Chris Beardslee of Clark Architects at 402-253-9805.

c. Addenda: Will be issued though A&D. We anticipate an addendum being issued by the end of the week.

3. Construction Documents:

a. Scopes of Work: We discussed where work is to occur and what the nature of that work will be. Window replacement, ceiling modification, painting, masonry, aluminum systems, and associated mechanical and electrical systems.
b. Use of Site: We discussed parking; the Contractor is to park and stage on the west side of the building, the Schools Staff will park in the Northeast parking lot.

c. Work Restrictions: We discussed that it is anticipated that the Contractor will encounter materials with lead based paint on them. It was clarified by the Owner that as long as there are not concentrations of lead based material, that those items can be disposed of in the dumpsters along with other construction debris.

1) It was added that the Contractor will need to secure any stored items and items that are to be recycled (aluminum).
2) It was stated that the documents require that the Contractor not open up any more window openings than can either have the new windows installed or covered by the end of the day.

d. Allowances and Unit Prices: We discussed that there is an allowance and that it is to be included in the base bid. We also discussed that there is a Unit Price requirement for access panels that are anticipated to be a part of the work.

4. Separate Contracts:

a. Work by Owner: The Owner will move the contents in the room away from the exterior walls. The Contractor is to protect the items left in the room (tent or cover) and put up plastic dust screen as well as to put plastic and/or masonite on the floor to protect the carpet.

b. The Owner will also be doing the stain and finish work on the trim installed around the perimeter of the windows. (The windows are to be factory finished)

c. The Owner will also finish the wood edging on the Countertop in the new Security Office.

5. Schedule:

a. Project Schedule.

1) The Owner's preference for window / construction sequence is to start at the south end of the school and work north. That should complete the work in the Kindergarten Room before the Jump Start Program begins in late July.

b. Contract Time.

1) May 27th to July 30th. (Latest finish being August 5th when Teachers are to report for work)

c. Other Bidder Questions.

1) There was a question regarding a possible revision to the details regarding the window installation. The answer was to bid the project as it is drawn.

END OF DOCUMENT 002513

DOCUMENT 004323 - ALTERNATES FORM

1.1 BID INFORMATION

A. Bidder: _____.

B. Project Name: LPS – Saratoga School Window Replacement Project.

C. Project Location: 2215 South 13th Street, Lincoln Nebraska.

D. Owner: Lincoln Public Schools.

E. Owner Project Number: Bid Number 7683.

F. Architect: Clark Architects Collaborative.

G. Architect Project Number: 14002.

1.2 BID FORM SUPPLEMENT

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

1.3 DESCRIPTION

A. The undersigned Bidder proposes the amount below be added to or deducted from the Base Bid if particular alternates are accepted by Owner. Amounts listed for each alternate include costs of related coordination, modification, or adjustment.

B. The Bidder shall be responsible for determining from the Contract Documents the effects of each alternate on the Contract Time and the Contract Sum.

C. Owner reserves the right to accept or reject any alternate, in any order, and to award or amend the Contract accordingly within 30 days of the Notice of Award unless otherwise indicated in the Contract Documents.

D. Acceptance or non-acceptance of any alternates by the Owner shall have no affect on the Contract Time unless the "Schedule of Alternates" Article below provides a formatted space for the adjustment of the Contract Time.

1.4 SCHEDULE OF ALTERNATES

A. Alternate No. One: Cover Plastic Insulation:

1. ADD____ DEDUCT____.

2. _____ Dollars ($_____).

1.5 SUBMISSION OF BID SUPPLEMENT

A. Respectfully submitted this ____ day of _____, 2014.

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 004323

DOCUMENT 004393 - BID SUBMITTAL CHECKLIST

1.1 BID INFORMATION

A. Bidder: _____.

B. Project Name: LPS – Saratoga School Window Replacement Project.

C. Project Location: 2215 South 13th Street, Lincoln Nebraska.

D. Owner: Lincoln Public Schools.

E. Owner Project Number: Bid Number 7683.

F. Architect: Clark Architects Collaborative.

G. Architect Project Number: 14002.

1.2 BIDDER'S CHECKLIST

A. In an effort to assist the Bidder in properly completing all documentation required, the following checklist is provided for the Bidder's convenience. The Bidder is solely responsible for verifying compliance with bid submittal requirements.

B. Attach this completed checklist to the outside of the Submittal envelope.

1. Used the Bid Form provided in the Project Manual.
2. Prepared the Bid Form as required by the Instructions to Bidders.
3. Indicated on the Bid Form the Addenda received.
4. Attached to the Bid Form: Bid Supplement Form - Allowances.
5. Attached to the Bid Form: Bid Supplement Form - Unit Prices.
6. Attached to the Bid Form: Bid Supplement Form - Alternates.
7. Attached to the Bid Form: Bid Bond OR a certified check for the amount required.
8. Bid envelope shows name and address of the Bidder.
9. Bid envelope shows name of Project being bid.
10. Bid envelope shows time and day of Bid Opening.
11. Verified that the Bidder can provide executed Performance Bond and Labor and Material Bond.
12. Verified that the Bidder can provide Certificates of Insurance in the amounts indicated.

END OF DOCUMENT 004393

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.

1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.

B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.

C. Execute accepted alternates under the same conditions as other work of the Contract.

D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Alternate No. One: Cover Plastic Insulation.

1. Base Bid: Includes no gypsum wallboard work above the ceilings at window types C, F or G.
2. Alternate: Cover existing plastic insulation located above Window Type C between the ceiling and the underside of floor or roof structure above with gypsum wallboard construction as indicated on Sheet A102 and as specified in Sections 092216 "Non-structural metal framing" and Section 092900 Gypsum Board.

END OF SECTION 012300

SECTION 087100
DOOR HARDWARE – Addendum No. 1

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Door Hardware, including electric hardware.
2. Storefront and entrance door hardware.
3. Power supplies for electric hardware.
4. Low energy door operators plus sensors and actuators.
5. Cylinders for doors fabricated with locking hardware.
6. Wiring and riser diagrams for electric hardware.

B. Related Sections:

1. Section 06200 - Finish Carpentry: Finish Hardware Installation.
2. Section 08100 - Metal Doors and Frames.
3. Section 08200 - Wood and Plastic Doors.
4. Section 08400 - Entrances and Storefronts.
5. Section 16724 - Security Access Systems.

1.2 REFERENCES:

A. Use date of standard in effect as of Bid date.

B. American National Standards Institute – ANSI 156.18 – Materials and Finishes.

C. ICC/ANSI A117.1 - 1998 – Specifications for making buildings and facilities usable by physically handicapped people.

D. ADA – Americans with Disabilities Act of

E. BHMA – Builders Hardware Manufacturers Association

F. DHI – Door and Hardware Institute

G. NFPA – National Fire Protection Association

1. NFPA 80 – Fire Doors and Windows
2. NFPA 101 – Life Safety Code
3. NFPA 105 – Smoke and Draft Control Door Assemblies
4. NFPA 252 – Fire Tests of Door Assemblies

H. UL – Underwriters Laboratories

1. UL10B – Fire Tests of Door Assemblies as amended to incorporate positive pressure testing.
2. UL 305 – Panic Hardware

I. WHI – Warnock Hersey Incorporated

J. Local applicable codes

K. SDI – Steel Door Institute

L. AWI – Architectural Woodwork Institute

M. NAAMM – National Association of Architectural Metal Manufacturers

1.3 SUBMITTALS & SUBSTITUTIONS

A. SUBMITTALS: Submit six copies of schedule per Division 1. Organize vertically formatted schedule into "Hardware Sets" with index of doors and headings, indicating complete designations of every item required for each door or opening. Include following information:

1. Type, style, function, size, quantity and finish of hardware items.
2. Use BHMA Finish codes per ANSI A156.18.
3. Name, part number and manufacturer of each item.
4. Fastenings and other pertinent information.
5. Location of hardware set coordinated with floor plans and door schedule.
6. Explanation of abbreviations, symbols, and codes contained in schedule.
7. Mounting locations for hardware.
8. Door and frame sizes, materials and degrees of swing.
9. List of manufacturers used and their nearest representative with address and phone number.
10. Catalog cuts.
11. Manufacturer's technical data and installation instructions for electronic hardware.
12. Date of jobsite visit.

B. Bid and submit manufacturer's updated/improved item if scheduled item is discontinued.

C. Make substitution requests in accordance with Division 1. Include product data and indicate benefit to the Project. Furnish operating samples on request.

1. Items listed with no substitute manufacturers have been requested by Owner to meet existing standard.

D. Furnish as-built/as-installed schedule with closeout documents, manufacturers' installation, adjustment and maintenance information, and supplier's final inspection report.

1.4 1.4 QUALITY ASSURANCE:

A. Qualifications:

1. Hardware supplier: direct factory contract supplier who employs a
2. Certified Architectural Hardware Consultant (AHC), available at reasonable times during course Work for project hardware consultation to Owner, Architect and Contractor. (This does not include DBA suppliers).

a. Responsible for detailing, scheduling and ordering of finish hardware.

B. Hardware: New, free of defects, blemishes and excessive play. Obtain each kind of hardware (latch and locksets, exit devices, hinges and closers) from one manufacturer.

C. Exit Doors: Operable from inside with single motion without the use of a key or special knowledge or effort.

D. Fire-Rated Openings: NFPA 80 compliant. Hardware UL10C / UBC Standard 7-2 (positive pressure) compliant for given type/size opening and degree of label. Provide proper latching hardware, non-flaming door closers, approved-bearing hinges, and resilient seals. Coordinate with wood door section for required intumescent seals. Furnish openings complete.

E. Furnish hardware items required to complete the work in accordance with specified performance level and design intent, complying with manufacturers' instructions.

1. Where scheduled item is now obsolete, bid and furnish manufacturer's updated item at no additional cost to LPS.

F. Pre-Installation Meetings: Initiate and conduct with supplier, installer and related trades, coordinate materials and techniques, and sequence complex hardware items and systems installation. Include manufacturers' representatives of locks, panic hardware and door closers in the meetings. Convene at least one week prior to commencement of related work.

1.5 DELIVERY, STORAGE AND HANDLING:

A. Delivery: coordinate delivery to appropriate locations (shop or field).

1. Permanent keys and cores: secured delivery direct to Owner's representative.
2. Hardware for aluminum door manufacture direct to supplier excluding power supplies, electrical boards and acuators

B. Acceptance at Site: Items individually packaged in manufacturers' original containers, complete with proper fasteners and related pieces. Clearly mark packages to indicate contents, locations in hardware schedule and door numbers.

C. Storage: Provide securely locked storage area for hardware, protect from moisture, sunlight, paint, chemicals, dust, excessive heat and cold, etc.

1.6 PROJECT CONDITIONS:

A. Where exact types of hardware specified are not adaptable to finished shape or size of members requiring hardware, provide suitable types having as nearly as practical as the same operation and quality as type specified, subject to Architect's approval.

B. Prior to submittal, carefully inspect existing conditions to verify finish hardware required to complete Work, including sizes, quantities, existing hardware scheduled for re-use, and sill condition material. If conflict between the specified/scheduled hardware and existing conditions, submit request for direction from Architect. Include date of jobsite visit in the submittal.

1. Submittals prepared without thorough jobsite visit by qualified hardware expert will be rejected as non-compliant.

1.7 SEQUENCING AND COORDINATION:

A. Reinforce walls for wall-mounted hardware.

B. Coordinate finish floor materials and floor-mounted hardware.

C. Conduit and raceways as needed for electrical, electronic and electro-pneumatic hardware items. Fire/life-safety system interfacing. Point-to-point wiring diagrams plus riser diagrams to related trades.

D. Furnish manufacturer templates to door and frame fabricators.

1. Ensure proper blocking in wood doors to support wood screws for panic hardware and door closers.

2. Ensure proper reinforcement in aluminum doors, aluminum frames, metal doors and frames to support machine screws for panic hardware and door closers.

E. Use hardware consultant to check Shop Drawings for doors and entrances to confirm that adequate provisions will be made for proper hardware installation.

1.8 WARRANTY:

A. Part of respective manufacturers' regular terms of sale. Provide manufacturers' warranties:

1.	Locksets:	ND series Seven years.
2.	Exit Devices:	Three years mechanical, one year electrical.
3.	Closers:	Ten years mechanical, two years electrical.
4.	Other Hardware:	One year.

1.9 COMMISSIONING:

A. Conduct these tests three weeks prior to request for certificate of substantial completion

B. Test door hardware operation with climate control system and stairwell pressurization system both at rest and while in full operation.

C. Test electrical, electronic and electro-pneumatic hardware systems for satisfactory operation.

D. Test hardware interfaced with fire/life-safety system for proper operation and release.

PART 2 - PRODUCTS

2.1 2.1 MANUFACTURERS:

A. Listed acceptable alternate manufacturers: submit for review products with equivalent function and features of scheduled products.

ITEM:	MANUFACTURER:	ACCEPTABLE SUB:
Hinges	(IVE) Ives	McKinney ,Stanley
Continuous Hinges	(IVE) Ives	Select, McKinney
Key System	(SCH) Schlage Primus	No Substation
Locks	(SCH) Schlage	No Substation
Exit Devices	(VON) Von Duprin	No Substation
Closers	(LCN) LCN	No Substation
Operators	(LCN) LCN	No Substation
Auto Flush Bolts	(IVE) Ives	Rockwood, Trimco
Coordinators	(IVE) Ives	Rockwood, Trimco
Push & Pull Plates	(IVE) Ives	Rockwood, Trimco
Kickplates	(IVE) Ives	Rockwood, Trimco
Stops & Holders –	(IVE) Ives	Rockwood, Trimco
Overhead Stops	(GLY) Glynn-Johnson	Sargent
Thresholds	(NGP) National Guard	Zero, Reese
Seals & Bottoms	(NGP) National Guard	Zero, Reese

2.2 HINGING METHODS:

A. Note: drawings typically depict doors at 90 degrees, doors will actually swing to maximum allowable. Use wide-throw conventional or continuous hinges as needed up to 8 inches in width to allow door to stand parallel to wall for true 180-degree opening. Advise architect if 8-inch width is insufficient.

B. Conventional Hinges: Steel or stainless steel pins and concealed bearings. Hinge open widths minimum, but of sufficient throw to permit maximum door swing.

1. Three hinges per leaf to 7 foot, 6 inch height. Add one for each additional 30 inches in height, or any fraction thereof.
2. Extra heavy weight hinges on doors over 3 foot, 5 inches in width.
3. Extra-heavy weight hinges on doors with panic hardware or fire exit devices.
4. Outswinging exterior doors: non-ferrous with non-removable (NRP) pins.
5. Non-ferrous material exteriors and at doors subject to corrosive atmospheric conditions.
6. Provide shims and shimming instructions for proper door adjustment.

C. Continuous Hinges:

1. Geared-type aluminum at exteriors.

a. Heavy-duty, extra-bearing units for doors over 3 foot, 5 inches in width.
b. Heavy-duty, extra-bearing units for doors with panic hardware or fire exit devices.
c. Use wide-throw units where needed for maximum degree of swing, advise architect if commonly available hinges are insufficient.
d. Verify hinge type required; supply depending on door and frame being supplied in aluminum door and frame section. At no additional cost to LPS EXAMPLE (Kawneer 500 Wide Stile use Ives 112HD and EFCO use Ives 224HD.

2.3 LOCKSETS, LATCHSETS, DEADBOLTS:

A. Extra Heavy Duty Cylindrical Locks and Latches: as scheduled.

1. Chassis: cylindrical design, corrosion-resistant plated cold-rolled steel, through-bolted.
2. Locking Spindle: stainless steel, interlocking design.
3. Latch Retractors: forged steel. Balance of inner parts: corrosion-resistant plated steel, or stainless steel.
4. Backset: 2-3/4” typically, more or less as needed to accommodate frame, door or other hardware.
5. Lever Trim: accessible design, independent operation, spring-cage supported, minimum 2” clearance from lever mid-point to door face.
6. Electric operation: Manufacturer-installed continuous duty solenoid.
7. Strikes: 16 gage curved steel, bronze or brass with 1” deep box construction, lips of sufficient length to clear trim and protect clothing.
8. Lock Series and Design: Schlage ND series, “Rhodes” design.
9. Certifications:

a. ANSI A156.2, 1994, Series 4000, Grade 1.
b. UL listed for A label and lesser class single doors up to 4ft x 8ft.

10. Accepted substitutions: Schlage No Substitutions

2.4 EXIT DEVICES / PANIC HARDWARE

A. General features:

1. Independent lab-tested 1,000,000 cycles.
2. Push-through push-pad design. No exposed push-pad fasteners, no exposed cavities when operated. Return stroke fluid dampeners and rubber bottoming dampeners, plus anti-rattle devices.
3. latchbolts.
4. End caps: impact-resistant, flush-mounted. No raised edges or lips to catch carts or other equipment.
5. No exposed screws to show through glass doors.
6. Non-handed basic device design with center case interchangeable with all functions, no extra parts required to effect change of function.
7. Releasable in normal operation with 15-lb. maximum operating force per UBC Standard 10-4, and with 32 lb. maximum pressure under 250-lb. load to the door.
8. Flush end cap design as opposed to typical “bottle-cap” design end cap.
9. Comply with CBC Section 1003.3.1.9.

B. Specific features:

1. Lever Trim: Breakaway type, forged brass or bronze escutcheon min .130” thickness, compression spring drive, match lockset lever design.
2. Inpact recessed devices: 1-1/4inch projection when push-pad is depressed. Sloped metal end caps to deflect carts, etc. No pinch points to catch skin between touchbar and door.
3. Electrically Operated Devices: Single manufacturer source for electric latch retraction devices, power transfers, power supplies.
4. Removable Mullions: Removable with single turn of building key. Securely reinstalled without need for key.
5. Accepted substitutions: Von Duprin No Substitutions

2.5 2.5 CLOSERS

A. Surface Closers: [4011/4111]

1. Full rack-and-pinion type cylinder with removable non-ferrous cover and cast iron body. Double heat-treated pinion shaft, single piece forged piston, chrome-silicon steel spring.
2. ISO 2000 certified. Units stamped with date-of-manufacture code.
3. Independent lab-tested 10,000,000 cycles.
4. Non-sized and adjustable.
5. Plates, brackets and special templating when needed for interface with particular header, door and wall conditions and neighboring hardware.
6. Opening pressure: Exterior doors 8.5 lb., interior doors 5 lb., labeled fire doors 15 lb.
7. Separate adjusting valves for closing speed, latching speed and backcheck, fourth valve for delayed action where scheduled.
8. Extra-duty arms (EDA) at exterior doors scheduled with parallel arm units. EDA arms: rigid main and forearm, reinforced elbow.

9. Exterior door closers: tested to 100 hours of ASTM B117 salt spray test, furnish data on request.
10. Exterior doors do not require seasonal adjustments in temperatures from 120 degrees F to –30 degrees F, furnish data on request.
11. Non-flaming fluid, will not fuel door or floor covering fires.
12. Pressure Relief Valves (PRV): unsafe, not permitted.
13. Accepted substitutions: LCN No Substitutions

B. Low-Energy Door Operators: Comply with ANSI/BHMA 156.19 Electric power-open, hydraulically checked spring power closing. Modular construction. Finished metal cover. Field-adjustable opening force, opening speed, time-open, closing and latching speeds. Door reopens and timing cycle restores if system reactuated during closing cycle.

1. Self-contained low-voltage power supply, terminal strip and sequencing for incorporation of electric hardware with system operation.
2. Accepted substitutions: LCN No Substitutions

2.6 OTHER HARDWARE

A. Automatic Flush Bolts: Low operating force design, “LBR” type where scheduled.

B. Kick Plates: Four beveled edges, .050 inches minimum thickness, height and width as scheduled. Sheet-metal screws of bronze or stainless steel to match other hardware.

C. Door Stops: Provide stops to protect walls, casework or other hardware.

1. Unless otherwise noted in Hardware Sets, provide wall type with appropriate fasteners. Where wall type cannot be used, provide floor type. If neither can be used, provide overhead type.
2. Locate overhead stops for maximum possible opening. Consult with Owner for furniture locations. Minimum: 90deg stop / 95deg deadstop. Note degree of opening in submittal.

D. Through-bolts: Do not use. Coordinate with wood doors, ensure provision of proper blocking to support wood screws for mounting panic hardware and door closers. Coordinate with metal doors and frames, ensure provision of proper reinforcement to support machine screws for mounting panic hardware and door closers.

E. Silencers: Interior hollow metal frames, 3 for single doors, 4 for pairs of doors. Omit where adhesive mounted seal occurs. Leave no unfilled/uncovered pre-punched silencer holes.

2.7 FINISH:

A. Generally BHMA 626 Satin Chromium.

1. Areas using BHMA 626 to have push-plates, pulls and protection plates of BHMA 630, Satin Stainless Steel, unless otherwise noted.

B. Door closers: factory powder coated to match other hardware, unless otherwise noted.

2.8 KEYING REQUIREMENTS:

A. Key System: Schlage Primus or Everest Primus high-security utility-patented keyway where specified, interchangeable core where specified. Key blanks available only from factory-direct sources, not available from after-market keyblank manufacturers. Initiate and conduct meetings(s) with Owner to determine system keyway(s), keybow styles, structure. Furnish Owner's written approval of the system.

1. Primus match owners existing system.
2. Ship all cylinders direct to owner.
3. Supply all cylinders less keys O bitted.
4. Keying is by owner.

B. Key Cylinders: furnish 6-pin solid brass construction.

C. Permanent keys: use secured shipment direct from point of origination to Owner.

1. For estimate: 2 keys per cylinder round up to the nearest 100 delivered separate from the cylinders direct to owner.

PART 3 - PART 3 - EXECUTION

3.1 INSTALLATION

A. Install hardware per manufacturer's instructions and recommendations. Do not install surface-mounted items until finishes have been completed on substrate. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate for proper installation and operation. Remove and reinstall or replace work deemed defective by Architect.

1. Gaskets: install jamb-applied gaskets before closers, overhead stops, rim strikes, etc; fasten hardware over and through these seals. Install sweeps across bottoms of doors before astragals, cope sweeps around bottom pivots, trim astragals to tops of sweeps.
2. When hardware is to be attached to existing metal surface and insufficient reinforcement exists, use RivNuts, NutSerts or similar anchoring device for screws.
3. Use manufacturers' fasteners furnished with hardware items, or submit Request for Substitution with Architect.
4. Replace fasteners damaged by power-driven tools.

B. Locate floor stops no more that 4 inches from walls and not within paths of travel. See paragraph 2.2 regarding hinge widths, door should be well clear of point of wall reveal. Point of door contact no closer to the hinge edge than half the door width. Where situation is questionable or difficult, contact Architect for direction.

C. Locate overhead stops for minimum 90 degrees and maximum allowable degree of swing.

D. Drill pilot holes for fasteners in wood doors and/or frames.

E. Lubricate and adjust existing hardware scheduled to remain. Carefully remove and give to Owner items not scheduled for reuse.

3.2 ADJUSTING

A. Adjust and check for proper operation and function. Replace units, which cannot be adjusted to operate freely and smoothly.

1. Hardware damaged by improper installation or adjustment methods to be repaired or replaced to Owner's satisfaction.
2. Adjust doors to fully latch with no more than 1 pound of pressure.
3. Adjust delayed-action closers on fire-rated doors to fully close from fully-opened position in no more than 10 seconds.

B. Inspection: Use hardware supplier. Include supplier's report with closeout documents.

C. Follow-up inspection: Installer to provide letter of agreement to Owner that approximately 6 months after substantial completion, installer will visit Project with representatives of the manufacturers of the locking devices and door closers to accomplish following:

1. Re-adjust hardware.
2. Evaluate maintenance procedures and recommend changes or additions, and instruct Owner's personnel.
3. Identify items that have deteriorated or failed.
4. Submit written report identifying problems and likely future problems.

3.3 DEMONSTRATION:

A. Demonstrate electrical, electronic and pneumatic hardware systems, including adjustment and maintenance procedures.

3.4 PROTECTION/CLEANING:

A. Cover installed hardware, protect from paint, cleaning agents, weathering, carts/barrows, etc. Remove covering materials and clean hardware just prior to substantial completion.

B. Clean adjacent wall, frame and door surfaces soiled from installation/reinstallation process.

3.5 SCHEDULE OF FINISH HARDWARE

A. See door schedule in drawings for hardware set assignments.

Manufacturers and their abbreviations used in this schedule:

GLY	Glynn-Johnson Hardware
IVE	H. B. Ives
LCN	LCN Closers
SCH	Schlage Lock Company
SCE	Schlage Lock Electronics
VON	Von Duprin
NGP	National Guard Products

Hardware Schedule

Set: 1.0

Doors: #1 and Door #2a (Re-use electronic hardware from existing)
Description:

1ea	Exit Device	99NL 990NL (Retrofit to reuse on 36 inch door.)	26d Von
1ea	Door Closer	4111 EDA	Alum LCN
1ea	Shoe Support	4110-30	Alum LCN
1ea	Stop Spacer	4110-61	Alum LCN
1ea	Strike Spacer	Field Made	Alum LCN
1ea	Threshold	425E	Alum NGP
1ea	Sweep	C625A	Alum NGP
1ea	Cont. Hinge	112 HD PT1	Alum IVES
2ea	Filler Plates	EPT-1	Alum DOM

Retrofit: to re-use electronic from existing and placing inside new 99NL-990NLexit device.

Set: 2.0

Doors: #4 (all new)
Description:

1ea	Exit Device	99NL 990NL	26D Von
1ea	Door Closer	4111 EDA	Alum LCN
1ea	Shoe Support	4110-30	Alum LCN
1ea	Stop Spacer	4110-61	Alum LCN
1ea	Strike Spacer	Field Made	Alum LCN
1ea	Threshold	425E	Alum NGP
1ea	Sweep	C625A	Alum NGP
1ea	Cont. Hinge	112 HD PT1	Alum IVES
1ea	Filler Plate	EPT-1	Alum DOM

Set: 3.0

Doors: 2b (North Leaf)
Description:

1ea	Exit Device	99NL 990NL	26d	VON
1ea	Door Closer	4111 EDA	Alum	LCN
1ea	Shoe Support	4110-30	Alum	LCN
1ea	Stop Spacer	4110-61	Alum	LCN
1ea	Strike Spacer	Field Made	Alum	
1ea	Rim Cylinder	20-757 LKD	Alum	SCH
1ea	Threshold	424E	Alum	NGP
1ea	Sweep	C625A	Alum	NGP
2ea	Filler Plates	EPT-1	Alum	DON
1ea	Cont. Hinge	112 HD PT	Alum	Ives

Set: 4.0

Doors: 8a – Controlled Door

1ea	Exit Device	LXRXQEL 99NL 990NL	US10B	VON
1ea	Cylinder	20-757-LKB	26D	SCH
1ea	Door Closer	ReUse Existing		LCN
1ea	Power Transfer	EPT-10	US10B	VON
1ea	Hinge	Re-Use Existing		
1ea	Push Button	660PB		VON

Set: 5.0

Doors: 8b

Description: Interior Pair – Remove Existing Push Pulls and add the following:

1ea	Exit Device	99NL 990NL	US10B	VON
1ea	Exit Device	99DT 990DT	US10B	VON
1ea	Cylinder	20-757-LKB	26D	SCH
1ea	Mullion	KR4954-STAB	US10B	VON
1ea	Mortise Cylinder	20-763-LKB	26D	SCH

Set: 6.0

Doors: #2c, 2d

Description: Single foyer doors

1ea	Exit Trim	990DT	26D	Von
1ea	Dummytoch bar	330	26D	Von

1ea	Door Closer	4111 EDA	Alum	LCN
1ea	Shoe Support	4110-30	Alum	LCN
1ea	Stop Spacer	4110-61	Alum	LCN
1ea	Cont. Hinge	112 HD PT	Alum	IVES
2ea	Filler Plates	EPT-1	Alum	DOM

Set: 7.0

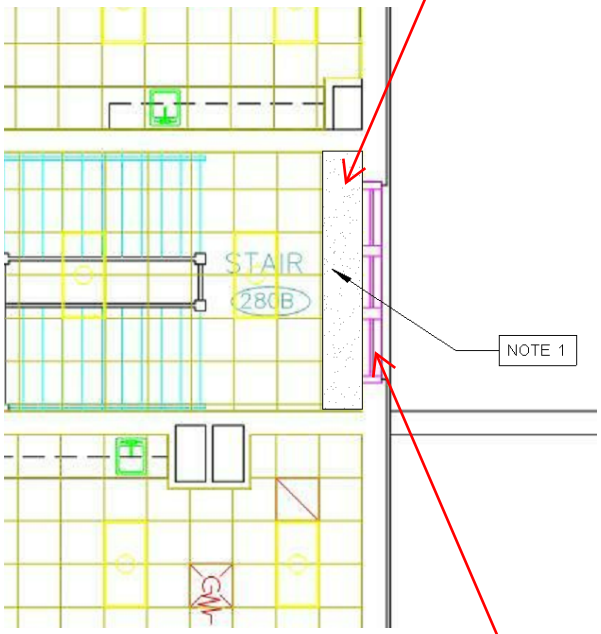
Doors: #8c

Description: Single foyer doors Remove existing Pulls

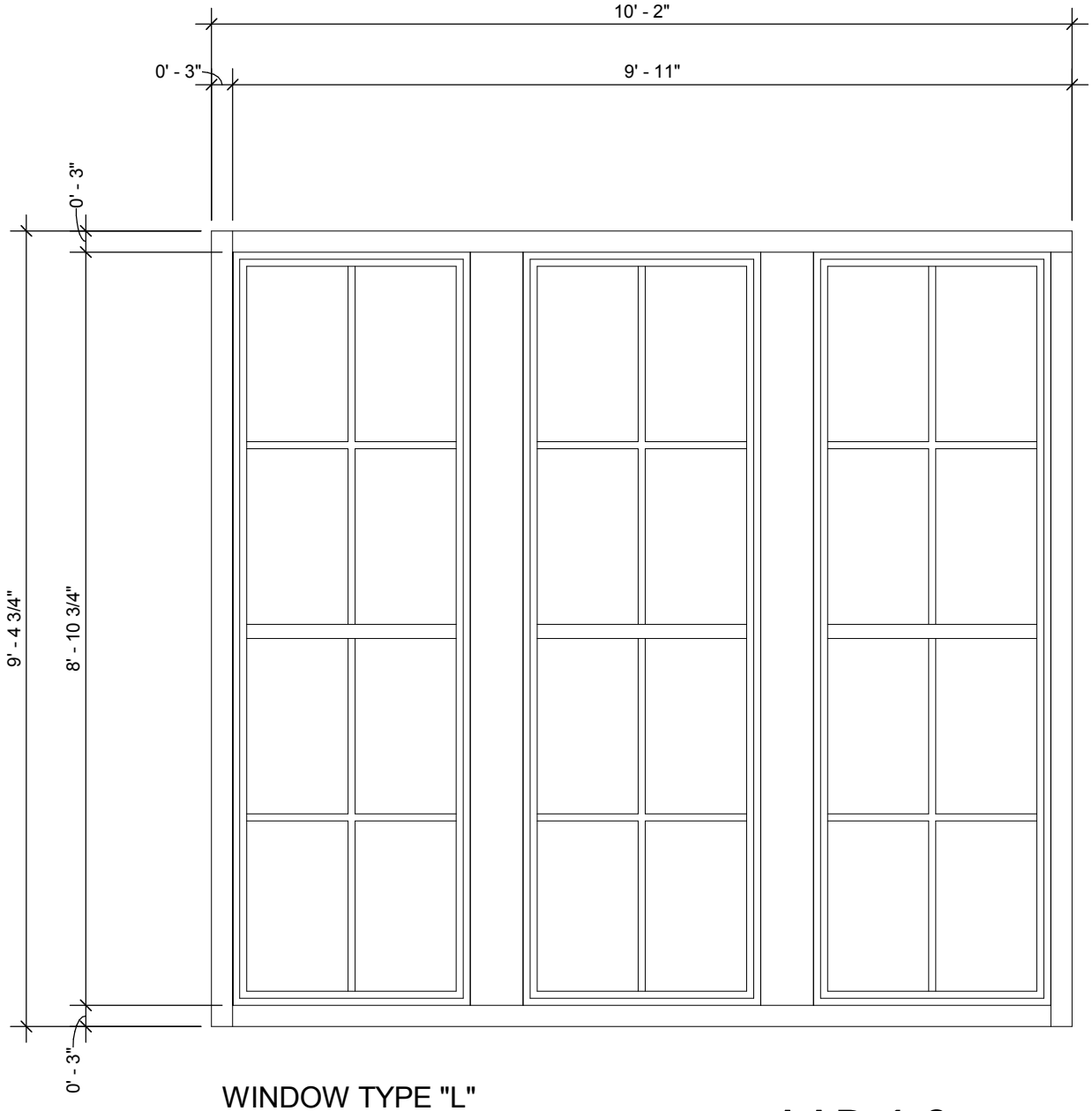
1ea	Exit Device	99DT 990DT	US10B	Von
1ea	Door Closer	REUSE	Alum	LCN
1ea	Cont. Hinge	REUSE	Alum	IVES
1ea	Strike Spacer	Field Made	US10B	

END OF SECTION

INSTALL TYPICAL
WINDOW POCKET

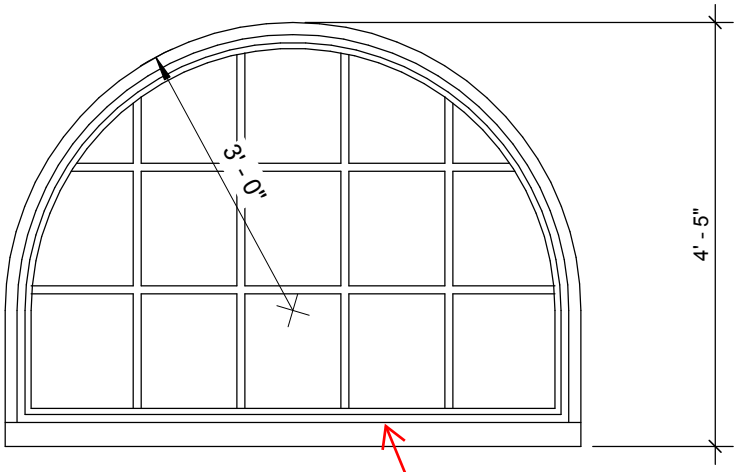


WINDOW
TYPE "L"



WINDOW TYPE "L"

AAD-1.0
Addendum No.1



WINDOW TYPE "M"

SEE DETAILS FOR
TYPE C, F & G
WINDOWS

AAD-2.0
Addendum 1
04/10/14

CLARK architects collaborative 3

April 8, 2014

Saratoga School Pre-Bid Meeting Attendance

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