

ADDENDUM NO. 2

2016 SINKING FUND IMPROVEMENTS
DISTRICT WINDOW AND DOOR REPLACEMENTS
OWOSSO PUBLIC SCHOOLS
OWOSSO, MICHIGAN

TO: ALL PROSPECTIVE BIDDERS ON THE SUBJECT PROJECT
RE: CHANGES TO BIDDING DOCUMENTS

Acknowledge Receipt of this Addendum on Page P-1
of the Bidform (Proposal) where indicated.

Please see the enclosed information:

- 1. Pre-Bid Meeting Minutes
- 2. Pre-Bid Meeting Sign-In Sheet

Specifications:

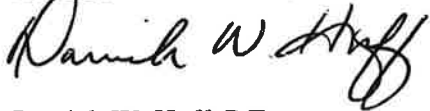
- 1. Replace Specification 08710 with attached revised Specification 08710

The following is a list of items that are relevant to the bid and the bidders and change or clarify the bidding documents:

- 1. Trim around the windows shall be allowed to be break metal in lieu of extruded aluminum.
- 2. The egress window is to remain a projected vent as shown on the existing design even though that doesn't match the existing windows.
- 3. Contractors shall disregard all notes on the drawings that call for EIFS to be "By Others". The EIFS is to be provided and installed as part of this project. The EIFS shall be the Contractor's responsibility and includes infill framing, drywall, finishing, and painting.
- 4. Existing rollup shades are to be removed and reinstalled by the Contractor.

Please sign the Acknowledgment below and attach this Addendum No. 2 to the front of your bidding document. Acknowledge the same in the Bid Form (Proposal).

Prepared by:
SPICER GROUP, INC.



Darrick W. Huff, P.E.
Project Manager
March 10, 2016

ACKNOWLEDGMENT

BIDDER: _____
BY: _____
DATE: _____

MEETING MINUTES

2016 Sinking Fund Improvements District Window and Door Replacements Owosso Public Schools

Mandatory Pre-Bid Conference Wednesday March 9, 2016 at 3:30 PM

1. Introductions – See attached Sign-In Sheet.
2. Addendum to be issued by Friday. Bid opening is **March 16, 2016 at 3:00 PM**.
3. This is not a prevailing wage job.
4. Substantial Completion **August 15, 2016** for all work, with final completion 1 week prior to the first week of school for the 2016 – 2017 school year.
5. Liquidated damages of \$500.00 per day are applicable for not completing the work within the allotted time, per the specification. (Agreement, Article 3)
6. State of Michigan background checks are required for all contractor personnel that are to be on site.
7. Contractors are encouraged to schedule a follow-up site visits by contacting: John Klapko, Director of Operations, Owosso Public Schools, (989) 729-5701. The building will be made available for Contractor inspection after students are out of the building, by appointment only.
8. “Owners Discretionary Allowance” funds are not the contractor’s money. All funds not used will be a credited back to the Owner before final payment. (Section 01 20 00, Part 1.2, and Bid Form, Item 7)
9. All questions concerning plans and specifications are to be directed to Darrick Huff, Spicer Group, Inc. at (989) 754-4717, or darrickh@spicergroup.com
10. Work place safety is the responsibility of the Contractor.
11. The contractor, shall provide the owner with a proposed work plan for review and approval, prior to award of the contract.
12. Bi-weekly progress meetings will be held during construction. Meetings will be the responsibility of the General Contractor and attendance by all contractors and sub-contractors working on this project is required.
13. All questions in this meeting will be addressed to all bidders via an addendum and posted the Spicer Group, Inc. website. As part of registering on the website for plans/specifications, you were asked to provide an email address. You will be notified through that email address when addendum(s) are posted to the website.
14. Contractor is responsible for all project coordination as discussed in Section 01 30 00, including but not limited to:

A. Coordinate scheduling, submittals, and Work of the various Sections of specifications to assure efficient and orderly sequence of installation of interdependent construction elements.

15. Work shall be performed in non-student occupied areas during school hours with the advanced approval of the school district.

16. Review Bid Form and Scope of Work.

BID FORM

1.	Lump Sum	Middle School Window Improvements	\$ _____
2.	Lump Sum	District Door Replacements	\$ _____
3.	Lump Sum	Owner's Discretionary Allowance	\$ <u>100,000.00</u>
TOTAL BID			\$ _____

17. Discussion and Question and Answer.

A. The payment made to Contractor's will be monthly based on work completed.

18. Adjourn

SIGN-IN SHEET

2016 SINKING FUND IMPROVEMENTS
DISTRICT WINDOW AND DOOR REPLACEMENTS
OWOSSO PUBLIC SCHOOLS

Wednesday March 9, 2016
Pre Bid Conference at 3:30 p.m.

Please Print Legibly – You won't receive addendum information if we can't read your writing

	CONTACT NAME	COMPANY	E-MAIL	PHONE NUMBER	FAX NUMBER
1	Darrick Huff	Spicer Group, Inc.	darrickh@spicergroup.com	989-754-4717	989-754-4440
2	Dave Boersma	Spicer Group, Inc.	daveb@spicergroup.com	989-754-4717	989-754-4440
3	John Klapko	Owosso Public Schools	klapkoj@owosso.k12.mi.us	989-729-5701	989-729-6706
4	Eddie Louch	Axiom Cons.	dmougrabi@axiomcsgllc.com	298-763-8948	
5	Jeremy Dwyer	Hi-Quality Glass	jeremydwyer11@gmail.com	989-723-7896	989-723-7035
6	Shaun Thronson	Glazing Solutions	gsisthronson@tds.net	517-625-1011	517-625-1013
7	Julie Wright	Perrin Cons.	perrin6@frontier.com	989-288-6046	989-288-2731
8	Andy Patrick	Calvin & Company	andyp@calvincoinc.com	810-239-3524	810-239-3534
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SECTION 08710

DOOR HARDWARE

1 PART 1 GENERAL

- 1.1 Refer to "General and Special Conditions", and "Instructions to Bidders", Division 1 of Specifications. Requirements of these Sections and the project drawings shall govern work in this section.
- 1.2 Work Included:
- A. Furnish all items of Finish Hardware specified, scheduled, shown or required herein except those items specifically excluded from this section of the specification.
- B. Related work:
1. Division 00 00 00 – Procurement and Contracting Requirements
 2. Division 01 00 00 – General Requirements
 3. Division 06 00 00 – Wood, Plastics, and Composites
 4. Division 08 00 00 – Openings
 5. Division 10 00 00 – Specialties
 6. Division 11 00 00 – Equipment
 7. Division 26 00 00 – Electrical
 8. Division 27 00 00 – Communications
 9. Division 28 00 00 – Electronic Safety and Security
- 1.3 Quality Assurance
- A. Requirements of Regulatory Agencies:
1. Furnish finish hardware to comply with the requirements of laws, codes, ordinances, and regulations of the governmental authorities having jurisdiction where such requirements exceed the requirements of the Specifications.
 2. Furnish finish hardware to comply with the requirements of the regulations for public building accommodations for physically handicapped persons of the governmental authority having jurisdiction and to comply with Americans with Disabilities Act.
 3. Provide hardware for fire-rated openings in compliance with NFPA 80 and state and local building code requirements. Provide only hardware that has been tested and listed by UL for types and sizes of doors required and complies with requirements of door and door frame labels.
- B. Hardware Supplier:
1. Shall be an established firm dealing in contract builders' hardware. He must have adequate inventory, qualified personnel on staff and be located within 100 miles of the project. The distributor must be a factory-authorized dealer for all materials required. The supplier shall be or have in employment an Architectural Hardware Consultant (AHC).
- C. Manufacturer:
1. Obtain each type of hardware (latch and locksets, hinges, closers, etc.) from a single manufacturer, although several may be indicated as offering products complying with requirements.
 2. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated.

1.4 Submittals:

A. Hardware Schedule

1. Submit number of Hardware Schedules as directed in Division 1.
2. Follow guidelines established in Door & Hardware Institute Handbook (DHI) Sequence and Format for the Hardware Schedule unless noted otherwise.
3. Schedule will include the following:
 - a. Door Index including opening numbers and the assigned Finish Hardware set.
 - b. Preface sheet listing category only and manufacturer's names of items being furnished as follows:

CATEGORY	SPECIFIED	SCHEDULED
Hinges	Manufacturer A	Manufacturer B
Lock sets	Manufacturer X	Manufacturer X
Kick Plates	Open	Manufacturer Z

- c. Hardware Locations: Refer to Article 3.1 B.2 Locations.
- d. Opening Description: Single or pair, number, room locations, hand, active leaf, degree of swing, size, door material, frame material, and UL listing.
- e. Hardware Description: Quantity, category, product number, fasteners, and finish.
- f. Headings that refer to the specified Hardware Set Numbers.
- g. Scheduling Sequence shown in Hardware Sets.
- h. Product data of each hardware item, and shop drawings where required, for special conditions and specialty hardware.
- i. Electrified Hardware system operation description.
- j. "Vertical" scheduling format only. "Horizontal" schedules will be returned "Not Approved."
- k. Typed Copy.
- l. Double-Spacing.
- m. 8-1/2 x 11 inch sheets
- n. U.S. Standard Finish symbols or BHMA Finish symbols.

B. Product Data:

1. Submit, in booklet form Manufacturers Catalog cut sheets of scheduled hardware.
2. Submit product data with hardware schedule.

C. Samples:

1. Prior to submittal of the final hardware schedule and prior to final ordering of finish hardware, submit one sample, if required, of each type of exposed hardware unit, finished as required and tagged with full description for coordination with schedule.
2. Samples will be returned to the supplier. Units, which are acceptable and remain undamaged through submittal, review and field comparison procedures may, after final check of operation, be used in the work, within limitations of keying coordination requirements.

D. Key Schedule:

1. Submit detailed schedule indicating clearly how the Owner's final keying instructions have been followed.
2. Submit as a separate schedule.

- E. Submit to General Contractor/Construction Manager, the factory order acknowledgement numbers for the various hardware items to be used on the project. The factory order acknowledgement numbers shall help to facilitate and expedite any service that may be required on a particular hardware item. General Contractor/Construction Manager shall keep these order acknowledgement numbers on file in the construction trailer.

1.5 Product Delivery, Storage, and Handling:

- A. Label each item of hardware with the appropriate door number and Hardware Schedule heading number, and deliver to the installer so designated by the contractor.

1.6 Warranties:

- A. Refer to Division 1 for warranty requirements.
- B. During the warranty period, replace defective work, including labor, materials and other costs incidental to the work. Replace work found to be defective as defined in the General Conditions.

2 PART 2 PRODUCT

- 2.1 Furnish each category with the products of only one manufacturer unless specified otherwise; this requirement is mandatory whether various manufacturers are listed or not.

- 2.2 Provide the products of manufacturer designated or if more than one manufacturer is listed, the comparable product of one of the other manufacturers listed. Where only one manufacturer or product is listed, it is understood that this is the owner's Building Standard and "no substitution" is allowed.

- A. Hinges:

1. Furnish hinges of class and size as listed in sets.
2. Numbers used are Ives (IVE).
3. Products of a BHMA member are acceptable.

- B. Continuous Gear Hinge:

1. 6063-T6 aluminum alloy, anodized finish (cap on entire hinge painted if specified). Manufacture to template, uncut hinges non-handed, pinless assembly, three interlocking extrusions, full height of door and frame, lubricated polyacetal thrust bearing, fasteners 410 stainless steel plated and hardened. All hinge profiles to be manufactured to template bearing locations, with standard duty bearing configurations at 5-1/8" spacing with a minimum of 16 bearings: and heavy duty at 2-9/16" spacing with a minimum of 32 bearings. Anodizing of material shall be done after fabrication of components so that all bearing slots are anodized.
2. Length: 1" less than door opening height. Fastener 12-24 x 1/2" #3 Phillips keen form stainless steel self-tapping at aluminum and hollow metal doors, 12-1/2" #3 Philips, flathead full thread at wood doors.
3. Furnish fire rated hinges "FR" at labeled openings.
4. Numbers used are Ives.
 - a. For Hollow Metal frames;
 - 1) Ives224HD
 - b. For Aluminum frames;
 - 1) Ives112HD

- C. Locksets and Latchsets - Mortise Type:
1. Locksets shall be manufactured from heavy gauge steel, minimum lockcase thickness 1/8", containing components of steel with a zinc dichromate plating for corrosion resistance.
 2. Locks are to have a standard 2 3/4" backset with a full 3/4" throw two-piece stainless steel mechanical anti-friction latchbolt. Deadbolt shall be a full 1" throw, constructed of stainless steel.
 3. Lockcase shall be easily handed without chassis disassembly by removing handing screw on lockcase and installing in opposite location on reverse side. Changing of door hand bevel from standard to reverse hand shall be done by removing the lockcase scalp plate, and pulling and rotating the latchbolt 180 degrees.
 4. Lock trim shall be through-bolted to the door to assure correct alignment and proper operation. Lever trim shall have external spring cage mechanism to assist in support of the lever weight. Thumb turns shall have "EZ" thumbturn equal to IR-Schlage L583-363.
 5. Function numbers are IR-Schlage.
 - a. IR-Schlage L9000
 6. Lockset Trim:
 - a. IR-Schlage06N
 7. Provide strikes with extended lips where required to protect trim from being marred by latch bolt. Provide strike lips that do not project more than 1/8" beyond door frame trim at single doors and have 7/8" lip to center at pairs of 1-3/4" doors.
- D. Exit Devices:
1. Exit devices shall be touchpad style, fabricated of brass, bronze, stainless steel, or aluminum, plated to the standard architectural finishes to match the balance of the door hardware.
 2. All exit devices shall incorporate a fluid damper, which decelerates the touchpad on its return stroke and eliminates noise associated with exit device operation. Touchpad shall extend a minimum of one half of the door width. All latchbolts to be deadlatching type, with a self-lubricating coating to reduce wear.
 3. End-cap will be sloped to deflect any impact from carts and they shall be flush with the external mechanism case. End caps that overlap and project above the mechanism case are unacceptable. End cap shall utilize a two-point attachment to the mounting bracket.
 4. Touchpad shall match exit device finish, and shall be stainless steel for US26, US26D, US28, US32, and US32D finishes. Only compression springs will be used in devices, latches, and outside trims or controls.
 5. Plastic templates shall be included with each exit device to facilitate a quick, easy and accurate installation.
 6. Strikes shall be roller type and come complete with a locking plate to prevent movement.
 7. All rim and vertical rod exit devices shall have passed a 5 million(5,000,000) cycle test based on ANSI A156.3, 1994, Grade 1 test standards and certified by an independent testing lab.
 8. All mortise exit devices shall have passed a 10 million(10,000,000)cycle test based on ANSI A156.3, 1994, Grade 1 test standards and certified by an independent testing lab.
 9. Exit devices shall be UL listed panic exit hardware. All exit devices for fire rated openings shall be UL labeled fire exit hardware.
 10. Lever trim for exit devices shall be vandal-resistant type, which will travel to a 90-degree down position when more than 35 pounds of torque are applied, and which can easily be re-set.

11. IR-Von Duprin 35A Series. Series and function numbers as listed in sets.
 12. Trim:
 - a. As specified in sets.
 - b. Levers to match lockset design where specified.
- E. Push and Pull Hardware:
1. Pull, Offset: One inch round rod, 90 degree offset, 12 inch centers.
 2. Manufacturer: Provide push and pull hardware from any member of B.H.M.A.
- F. Closers:
1. Door closers shall have fully hydraulic, full rack and pinion action with a high strength cast iron cylinder. Cylinder body shall be 1 ½" in diameter, and double heat treated pinion shall be 11/16" in diameter with double D slab drive arm connection.
 2. Hydraulic fluid shall be of a type requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
 3. Spring power shall be continuously adjustable over the full range of closer sizes, and allow for reduced opening force for the physically handicapped. Hydraulic regulation shall be by tamper-proof, non-critical valves. Closers shall have separate adjustment for latch speed, general speed, and backcheck.
 4. All closers shall have solid forged steel main arms (and forged forearms for parallel arm closers).
 5. All surface mounted mechanical closers shall be certified to exceed ten million (10,000,000) full load cycles by a recognized independent testing laboratory.
 6. Closers will have Powder coating finish certified to exceed 100 hours salt spray testing by ETL, an independent testing laboratory used by BHMA for ANSI certification.
 7. Refer to door and frame details and furnish accessories such as drop plates, panel adapters, spacers and supports as required to correctly install door closers. State degree of door swing in the hardware schedule.
 8. IR-LCN Series as listed in sets.
- G. Overhead Holders and Stops:
1. Type, function and fasteners must be same as Glynn-Johnson specified. Size per manufacturer's selector chart. Plastic end caps, hold open mechanisms and shock blocks are not allowed. End caps must be finished same as balance of unit.
 2. Manufacture products using base material of Brass/Bronze for US3, US4, & US10B finished products and 300 Stainless Steel for US32 & US32D finished products.
 3. Type, function, and fasteners must be the same as Glynn-Johnson specified. Size per manufacturer's selector chart.
 - a. IR-Glynn-Johnson
- H. Kick Plates:
1. Furnish .050 inches thick, beveled three sides, 10" high x door width less 2" at single doors and less 1" at pairs. Where glass or louvers prevent this height, supply with height equal to height of bottom rail less 2".
 2. Any BHMA manufacturing product meeting above is acceptable.
- I. Wall Stops:
1. Length to exceed projection of all other hardware. Provide with threaded studs and expansion shields for masonry wall construction. Install with slope on top.
 - a. IR-IvesWS33
 - b. BHMAL12011 or L12021

- J. Thresholds:
1. 1/2" high - 5" wide. Cope at jambs.
 2. Furnish full wall opening width when frames are recessed.
 3. Cope in front of mullions if thresholds project beyond door faces.
 4. Furnish with non-ferrous Stainless Steel Screws and Lead Anchors.
 - a. National Guard as listed in sets
 - b. Equal of Zero or Reese
- K. Door Sweeps:
1. Surface Sweeps:
 - a. National Guard as listed in sets
 - b. Equal by Zero or Reese
- L. Weather-stripping:
1. Apply to head and jamb stops.
 2. Solid Bar stock all sides
 - a. National Guard as listed in sets
 - b. Equal by Zero or Reese
- M. Miscellaneous:
1. Furnish items not categorized in the above descriptions but specified by manufacturer's names in Hardware Sets.
- N. Fasteners:
1. Furnish fasteners of the proper type, size, quantity and finish. Use machine screws and expansion shields for attaching hardware to concrete or masonry, and wall grip inserts at hollow wall construction. Furnish machine screws for attachment to reinforced hollow metal doors and frames and reinforced aluminum doors and frames. Furnish full thread wood screws for attachment to solid wood doors and frames. "TEK" type screws are not acceptable.
 2. **Sex bolts will not be permitted on reinforced metal doors or wood doors where blocking is specified.**
- 2.3 Finishes:
- A. Generally, Dull Chrome, US26D / BHMA 626. Provide finish for each item as indicated in sets.
- 2.4 Templates and Hardware Location:
- A. Furnish hardware made to template. Supply required templates and hardware locations to the door and frame manufacturers.
 - B. Furnish metal template to frame/door supplier for continuous hinge.
 - C. Refer to Article 3.1 B.2, Locations, and coordinate with templates.
- 2.5 Cylinders and Keying:
- A. All cylinders for this project will be supplied by one supplier regardless of door type and location.
 - B. The Finish Hardware supplier will meet with Architect and/or Owner to finalize keying requirements and obtain keying instructions in writing.
 1. Supplier shall include the cost of this service in his proposal.

- C. Provide a cylinder for all hardware components capable of being locked.
- D. Provide cylinders master and grand master keyed according to Owner's instructions. Provide change keys, master keys and grand master keys as required by Owner.

3 PART 3 EXECUTION

3.1 Installation

A. General:

1. Install hardware according to manufacturers installations and template dimensions. Attach all items of finish hardware to doors, frames, walls, etc. with fasteners furnished and required by the manufacture of the item.
2. Provide blocking/reinforcement for all wall mounted Hardware.
3. Reinforced hollow metal doors and frames and reinforced aluminum door and frames will be drilled and tapped for machine screws.
4. Continuous gear hinges attached to hollow metal doors and frames and aluminum doors and frames: 12-24 x 1/2" #3 Phillips Keenform self-tapping. Use #13 or 3/16 drill for pilot.
5. Continuous Gear Hinges require continuous mortar guards of foam or cardboard 1/2" thick x frame height, applied with construction adhesive.
6. Install weather-strip gasket prior to parallel arm closer bracket, rim exit device or any stop mounted hardware. Gasket to provide a continuous seal around perimeter of door opening. Allow for gasket when installing finish hardware. Door closers will require special templating. Exit devices will require adjustment in backset.

B. Locations:

1. Dimensions are from finish floor to center line of items.
2. Include this list in Hardware Schedule.

<u>CATEGORY</u>	<u>DIMENSION</u>
Hinges	Door Manufacturer's Standard
Levers	Door Manufacturer's Standard
Exit Device Touchbar	Per Template
Offset Pulls	Suitable for Exit Devices
Wall Stops/holders	At Head

C. Field Quality Inspection:

1. Provide the services of a representative to inspect material furnished and its installation and is adjustment, and to instruct the Owner's personnel in adjustment, care and maintenance of hardware.
2. Locksets and exit devices shall be inspected by the finish hardware supplier after installation and after the HVAC system is in operation and balanced, to insure correct installation and proper operation.
3. Closers shall be inspected by the finish hardware supplier after installation and after the HVAC system is in operation and balanced, to insure correct installation and proper operation.
4. The finish hardware supplier shall prepare a written report stating compliance, and also recording locations and kinds of noncompliance. The original report shall be forwarded to the Architect with copies to the Contractor, hardware installer and building owner.

D. Technical and Warranty Information:

1. At the completion of the project, the technical and warranty information coalesced and kept on file by the General Contractor/Construction Manager shall be given to the Owner or Owner's Agent. In addition to both the technical and warranty information, all factory order acknowledgement numbers supplied to the General Contractor/Construction Manager during the construction period shall be given to the Owner or Owner's Agent. The warranty information and factory order acknowledgement numbers shall serve to both expedite and properly execute any warranty work that may be required on the various hardware items supplied on the project.
2. Submit to General Contractor/Construction Manager, two copies each of parts and service manuals and two each of any special installation or adjustment tools. Include for locksets, exit devices, door closers and any electrical products.

3.2 Hardware Sets:

HARDWARE SET NO. 01

EACH TO HAVE:

2	EA	CONT. HINGE	112HD	628	IVE
1	EA	KEYED REMOVABLE MULLION	KR4954-STAB	689	VON
1	EA	PANIC HARDWARE	98-EO	626	VON
1	EA	PANIC HARDWARE	98-NL-OP-110MD	626	VON
2	EA	CYLINDER	(MATCH EXIST'G SYSTEM)	626	
2	EA	90 DEG OFFSET PULL	8190HD 12" O	630	IVE
2	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1	SET	SEAL	(BY DOOR & FRAME MFR)		
1	EA	MULLION SEAL	8780N	N	ZER
2	EA	DUST PLUG	2541		ZER
2	EA	DOOR SWEEP	8192AA	AA	ZER
1	EA	THRESHOLD	655A-V3-MSLA-10	A	ZER

HARDWARE SET NO. 02

EACH TO HAVE:

2	EA	CONT. HINGE	224HD	628	IVE
1	EA	KEYED REMOVABLE MULLION	KR4954-STAB	689	VON
1	EA	PANIC HARDWARE	98-EO	626	VON
1	EA	PANIC HARDWARE	98-NL-OP-110MD	626	VON
2	EA	CYLINDER	(MATCH EXIST'G SYSTEM)	626	
1	EA	DOOR PULL	VR910 DT	630	IVE
1	EA	DOOR PULL	VR910 NL	630	IVE
2	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
			ST-1586		
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	429A	A	ZER
1	EA	MULLION SEAL	8780N	N	ZER
2	EA	DUST PLUG	2541		ZER
2	EA	DOOR SWEEP	8192AA	AA	ZER
1	EA	THRESHOLD	655A-V3-MSLA-10	A	ZER

HARDWARE SET NO. 03

EACH TO HAVE:

1	EA	CONT. HINGE	224HD	628	IVE
1	EA	PANIC HARDWARE	98-NL-OP-110MD	626	VON
1	EA	CYLINDER	(MATCH EXIST'G SYSTEM)	626	
1	EA	DOOR PULL	VR910 NL	630	IVE
1	EA	SURFACE CLOSER	4111 SCUSH ST-1586	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	429A	A	ZER
2	EA	DUST PLUG	2541		ZER
1	EA	DOOR SWEEP	8192AA	AA	ZER
1	EA	THRESHOLD	655A-V3-MSLA-10	A	ZER

HARDWARE SET NO. 04

EACH TO HAVE:

2	EA	CONT. HINGE	112HD	628	IVE
1	EA	PANIC HARDWARE	98-EO	626	VON
1	EA	PANIC HARDWARE	98-NL-OP-110MD	626	VON
1	EA	CYLINDER	(MATCH EXIST'G SYSTEM)	626	
2	EA	90 DEG OFFSET PULL	8190HD 12" O	630	IVE
2	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
2	SET	SEAL	(BY DOOR & FRAME MFR)		
4	EA	DUST PLUG	2541		ZER
2	EA	DOOR SWEEP	8192AA	AA	ZER
2	EA	THRESHOLD	655A-V3-MSLA-10	A	ZER

HARDWARE SET NO. 05

EACH TO HAVE:

2	EA	CONT. HINGE	224HD	628	IVE
1	EA	PANIC HARDWARE	98-EO	626	VON
1	EA	PANIC HARDWARE	98-NL-OP-110MD	626	VON
1	EA	CYLINDER	(MATCH EXIST'G SYSTEM)	626	
1	EA	DOOR PULL	VR910 DT	630	IVE
1	EA	DOOR PULL	VR910 NL	630	IVE
2	EA	SURFACE CLOSER	4111 SCUSH ST-1586	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	GASKETING	429A	A	ZER
4	EA	DUST PLUG	2541		ZER
2	EA	DOOR SWEEP	8192AA	AA	ZER
2	EA	THRESHOLD	655A-V3-MSLA-10	A	ZER

HARDWARE SET NO. 06

EACH TO HAVE:

2	EA	CONT. HINGE	112HD	628	IVE
1	EA	PANIC HARDWARE	98-EO	626	VON
1	EA	PANIC HARDWARE	98-NL-OP-110MD	626	VON

1	EA	CYLINDER	(MATCH EXIST'G SYSTEM)	626	
2	EA	90 DEG OFFSET PULL	8190HD 12" O	630	IVE
2	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
4	EA	DUST PLUG	2541		ZER
2	EA	DOOR SWEEP	8192AA	AA	ZER
2	EA	THRESHOLD	655A-V3-MSLA-10	A	ZER

FIELD VERIFY THE EXISTING FRAME PREPARATIONS AND CONDITIONS FOR COMPATIBILITY WITH THE SPECIFIED HARDWARE.

HARDWARE SET NO. 07

EACH TO HAVE:

2	EA	CONT. HINGE	112HD	628	IVE
1	EA	KEYED REMOVABLE MULLION	KR4954-STAB	689	VON
1	EA	PANIC HARDWARE	98-EO	626	VON
1	EA	PANIC HARDWARE	98-NL-OP-110MD	626	VON
2	EA	CYLINDER	(MATCH EXIST'G SYSTEM)	626	
2	EA	90 DEG OFFSET PULL	8190HD 12" O	630	IVE
2	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1	SET	SEAL	(BY DOOR & FRAME MFR)		
1	EA	MULLION SEAL	8780N	N	ZER
2	EA	DUST PLUG	2541		ZER
2	EA	DOOR SWEEP	8192AA	AA	ZER
1	EA	THRESHOLD	655A-V3-MSLA-10	A	ZER

FIELD VERIFY THE EXISTING FRAME PREPARATIONS AND CONDITIONS FOR COMPATIBILITY WITH THE SPECIFIED HARDWARE.

HARDWARE SET NO. 08

EACH TO HAVE:

4	EA	CONT. HINGE	112HD	628	IVE
3	EA	PANIC HARDWARE	98-EO	626	VON
1	EA	PANIC HARDWARE	98-NL-OP-110MD	626	VON
1	EA	CYLINDER	(MATCH EXIST'G SYSTEM)	626	
4	EA	90 DEG OFFSET PULL	8190HD 12" O	630	IVE
4	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
8	EA	DUST PLUG	2541		ZER
4	EA	DOOR SWEEP	8192AA	AA	ZER
4	EA	THRESHOLD	655A-V3-MSLA-10	A	ZER

FIELD VERIFY THE EXISTING FRAME PREPARATIONS AND CONDITIONS FOR COMPATIBILITY WITH THE SPECIFIED HARDWARE.

END OF SECTION